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[Decisions of the State Courts are indicated by a section mark (§); of the United States Court of Appeals for the District of Columbia by the letter (a); and of the United States Court of Customs and Patent Appeals by a star (*).]

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LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Absolute Co., The. (See Poncy, Charles F.)

Alexander, Maude K., Winona, Minn. Feature section in publications. Serial No. 415,369; May 2. Class 38.

Allegheny Ludlum Steel Corporation, Brackenridge and Pittsburgh, Pa. House organ. Serial No. 416,937; May 2. Class 38.

Aluminum Company of America, Pittsburgh, Pa. House paint. Serial No. 414,764; May 2. Class 16.

American Cutting Alloys, Inc., New York, N. Y. Cutting tools and parts of such tools. Serial No. 416,594; May 2. Class 23.

American Flame Proofing Corporation, Everett, Wash. Chemical compounds. Serial No. 415,573; May 2. Class 6.

Anchor Cap & Closure Corporation, New York and Long Island City, N. Y. Bottle closures. Serial No. 382,081; May 2. Class 50.

Antoine de Paris, Inc., New York, N. Y. Soap. Serial No. 416,360; May 2. Class 4.

Ash-Bradford, Inc., South Bend, Ind. Paper receptacles or cartons. Serial No. 415,101; May 2. Class 2.

Asphalt Process Corporation, New York, N. Y. Emulsified asphalt. Serial No. 416,638; May 2. Class 12.

Associated Distributors, Inc., Chicago, Ill. Lipstick, rouge, face powder, etc. Serial Nos. 415,467–8; May 2. Class 6.

Baird, William M., Chicago, Ill. Refrigerated locker units. Serial No. 415,492; May 2. Class 31.

Baker Clothes Inc., Philadelphia, Pa. Men's and boys' clothing. Serial No. 415,199; May 2. Class 39.

Ballard, Nicholas G., St. Francis, Ky. Liniment. Serial No. 415,239; May 2. Class 6.

Barmon Brothers Company Inc., Buffalo, N. Y. Frocks. Serial No. 415,933; May 2. Class 39.

Bauer, W. A., Co., Norristown, Pa. Canned fruits and vegetables. Serial No. 400,678; May 2. Class 46.

Behr-Manning Corporation, Troy, N. Y. Coated abrasives. Serial No. 416,831; May 2. Class 4.

Behr-Manning Corporation, Troy, N. Y. Coated abrasives. Serial No. 416,835; May 2. Class 4.

Benson Fish Company, Chicago, Ill. Canned sardines and salmon, etc. Serial No. 413,615; May 2. Class 46.

Billingsly, L. B., doing business as L. B. Billingsly Machinery & Supply Company, Dallas, Tex. Dry cleaning machinery. Serial No. 415,494; May 2. Class 24.

Bonds-17 Dog Food Company, Los Angeles, Calif. Dog food. Serial No. 415,872; May 2. Class 46.

Bry, Edwin & Louis, Inc., New York, N. Y. Textile fabrics. Serial No. 416,399; May 2. Class 42.

Burnham & Morrill Company, Portland, Maine. Canned beans. Serial No. 412,590; May 2. Class 46.

Butler Works, Chicago, Ill. Infants' wear. Serial No. 414,816; May 2. Class 39.

Butt, H. E., Grocery Company, Harlingen and Corpus Christi, Tex. Canned citrus juices. Serial No. 416,946; May 2. Class 45.

Cable Raincoat Company, Boston, Mass. Summer sportwear. Serial No. 415,762; May 2. Class 39.

Caro-Lynn. (See James, Carrie.)

Century Engineering Corporation, Cedar Rapids, Iowa. Oil and gas burning furnace units. Serial No. 415,323; May 2. Class 34.

Charles Paint Research Co. (See Timmons, Lee R.)

Chaumiere Farms. (See Woods, Woodson K.)

Checkmaster Plan, Inc., New York, N. Y. Advertising pamphlets. Serial No. 414,686; May 2. Class 38.

Chicago Mail Order Company, Chicago, Ill. Linoleum. Serial No. 416,313; May 2. Class 20.

Churngold Corporation, The, Cincinnati, Ohio. Oleomargarine. Serial No. 415,834; May 2. Class 46.

Cline, Winfield B., doing business as Cline Advertising Service, Boise, Idaho. Printing mats, electrotypes, stereotypes, etc. Serial No. 402,678; May 2. Class 50.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Scripts. Serial No. 415,835; May 2. Class 38.

Congoleum-Nairn Inc., Kearny, N. J. Wax preparations. Serial No. 415,877; May 2. Class 16.

Connor, James R., New York, N. Y. Devices for displaying in co-relation, samples or representatives of home furnishings. Serial No. 415,282; May 2. Class 50.

Covertex Company, Perth Amboy, N. J. Adhesively coated transparent film-sheets. Serial No. 415,283; May 2. Class 37.

Crompton Company, West Warwick, R. I. Corduroy fabrics. Serial No. 416,457; May 2. Class 42.

Davis, W. A., doing business as W. A. Davis Milling Company, High Point, N. C. Wheat flour. Serial No. 415,500; May 2. Class 46.

Dawson, George, Louisville, Ky. Cigarettes. Serial No. 415,685; May 2. Class 17.

De Met's, Inc., Chicago, Ill. Candy. Serial No. 417,361; May 2. Class 46.

Doraldina Cosmetics, Inc., New York, N. Y. Triple strength astringent, acne lotion, cold cream, etc. Serial No. 415,639; May 2. Class 6.

Druck, Murray, New York, N. Y. Curtains, drapes, spreads, etc. Serial No. 415,109; May 2. Class 42.

Duff, Arthur W., Brockton, Mass. Coats and sweaters. Serial No. 416,182; May 2. Class 39.

Duke Manufacturing Co., St. Louis, Mo. Food warmers, covers for food warmers, and top plates therefor. Serial No. 415,587; May 2. Class 13.

East African Tanning Extract Company Limited, Nairobi, Kenya, Africa. Bark and bark extracts. Serial No. 406,617; May 2. Class 1.

Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. Serial No. 415,886; May 2. Class 46.

Electricooker, Inc., Newburyport, Mass. Salted nuts. Serial No. 416,319; May 2. Class 46.

Engert, Hyman E., doing business as Victor Patch Co., Chicago, Ill. Patches for tires and tubes and rubber solvent used therewith. Serial No. 417,206; May 2. Class 35.

Equity Press, Inc., The, New York, N. Y. Illustrated journal for the medical profession. Serial No. 415,939; May 2. Class 38.

Esmond, Gundlach and Company. (See Gundlach, George P.)

Fay-Miss Brassiere Co. Inc., New York, N. Y. Brassières, bandeaux, corselets, etc. Serial No. 416,846; May 2. Class 39.

Federated Mills, Inc., New York, N. Y. Tissue sheets and paper towels. Serial No. 402,296; May 2. Class 37.

Ferro Enamel Corporation, Cleveland, Ohio. Porcelain enamel frit and opacifiers. Serial No. 414,559; May 2. Class 1.

Financial Supervision, Incorporated, New York, N. Y. Publication. Serial No. 413,265; May 2. Class 38.

Fitzgibbons Boiler Company, Inc., New York, N. Y. Draft regulating damper for boilers. Serial No. 413,440; May 2. Class 34.

Fitzgibbons Boiler Company, Inc., New York, N. Y. Draft regulating baffle for boilers. Serial No. 413,442; May 2. Class 34.

Fitzgibbons Boiler Company, Inc., New York, N. Y. Boilers. Serial Nos. 413,501–2; May 2. Class 34.

Fitzgibbons Boiler Company, Inc., New York, N. Y. Boilers. Serial No. 413,504; May 2. Class 34.

Florida Fruit Canners, Inc., Frostproof, Fla. Canned grapefruit, peas, tomato juice, etc. Serial No. 398,351; May 2. Class 46.

Folker Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 416,531; May 2. Class 42.

Folsom Company, The, Dallas, Tex. Gas stoves, ranges, heaters, etc. Serial No. 416,253; May 2. Class 34.

Ford, J. B., Company, The, Wyandotte, Mich. Modified soda ash. Serial No. 402,121; May 2. Class 6.

Gas-It Corporation, New York, N. Y. Gas for cutting and welding purposes. Serial No. 415,505; May 2. Class 6.

General Printing Ink Corporation, New York, N. Y. Printing ink. Serial No. 416,649; May 2. Class 11.

Gimbel Brothers, Inc., New York, N. Y. Women's shoes. Serial No. 415,713; May 2. Class 39.

Grandpa Brands Company, Cincinnati, Ohio. Beverages and for the concentrates thereof. Serial No. 416,631; May 2. Class 45.

Greenway Brewery Co., Inc., Syracuse, N. Y. Beer and ale. Serial No. 412,969; May 2. Class 48.

Gristede Bros. Inc., New York, N. Y. Wine. Serial No. 416,288; May 2. Class 47.

Gundlach, George P., doing business as Esmond, Gundlach and Company, Norwood, Cincinnati, Ohio. Ice cream. Serial No. 413,309; May 2. Class 46.

Hall Planetary Company, The, Philadelphia, Pa. Milling machines and parts thereof. Serial No. 416,688; May 2. Class 23.

Hanover Food Products Co., Inc., Baltimore, Md. Canned soups and vegetables. Serial No. 415,276; May 2. Class 46.

Hart, Joe W., Cleveland, Ohio. Trailers. Serial No. 413,208; May 2. Class 19.

Hingeco Vanities, Inc., Providence, R. I. Vanity cases. Serial No. 414,351; May 2. Class 6.

Hirsch-Weis Manufacturing Company, Portland, Oreg. Sport and ski clothing and wearing apparel. Serial No. 411,954; May 2. Class 39.

Hirschman, W. F., Co. Inc., Buffalo, N. Y. Forced draft roof ventilators. Serial No. 415,778; May 2. Class 34.

Hoffman-Harris, Inc., New York, N. Y. Publication. Serial No. 415,648; May 2. Class 38.

Huffman Full Fashioned Mills, Inc., Morganton, N. C. Hosiery. Serial No. 416,012; May 2. Class 39.

International Brotherhood of Paper Makers, Albany, N. Y. Papeteries and papers. Serial No. 415,292; May 2. Class 37.

James, Carrie, doing business as Caro-Lynn, New York, N. Y. Tissue cream. Serial No. 414,954; May 2. Class 6.

Johns-Manville Corporation, New York, N. Y. Acoustical sheet material. Serial No. 416,423; May 2. Class 12.

Kaylon, Inc., New York, N. Y. Pajamas. Serial No. 416,513; May 2. Class 39.
Kensington, Incorporated, New Kensington, Pa. Ornamental boxes and trays for tobacco and cigarettes, etc. Serial No. 374,198; May 2. Class 8.
Kewanee Liquids Manufacturing Co., Kewanee, Ill. Poultry medicine. Serial No. 415,125; May 2. Class 6.
Laboratoires Romon Société à Responsabilité Limitée, Paris, France. Magnesium preparation. Serial No. 415,042; May 2. Class 6.
Levy, Maurice, doing business as Malvy, New York, N. Y. Perfume. Serial No. 417,021; May 2. Class 6.
Libbey, W. S., Company, Lewiston, Maine. Blankets and piece goods. Serial No. 416,612; May 2. Class 42.
Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Soap powder and flakes, laundry soaps, etc. Serial No. 415,718; May 2. Class 4.
Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Soap powder and flakes, laundry soaps, etc. Serial No. 415,720; May 2. Class 4.
Lyman, Franklin, doing business as F. Lyman Coffee & Tea Co., New York, N. Y. Coffee, tea, and spices. Serial No. 414,572; May 2. Class 46.
Malkin-Illion Corporation, Newark, N. J. Vending machines and coin devices therefor. Serial No. 416,613; May 2. Class 23.
Malvy. (See Levy, Maurice.)
Mars Signal Light Co., Oak Park, Ill. Electric headlight and signal lamps. Serial No. 385,052; May 2. Class 21.
Martin Brothers Electric Co., The, Cleveland, Ohio. Electric hair driers. Serial No. 404,317; May 2. Class 44.
Midland Flour Milling Company, The, doing business as Newton Milling & Elevator Co., Kansas City, Mo. Wheat flour. Serial No. 405,562; May 2. Class 46.
Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. Serial No. 403,516; May 2. Class 39.
Miller, Polk, Products Corporation, Richmond, Va. Therapeutic food supplement for dogs. Serial No. 414,890; May 2. Class 6.
Minneapolis Knitting Works, Minneapolis, Minn. Overalls for women. Serial No. 414,635; May 2. Class 39.
Moran, Michael F., doing business as The Moran Paint Co., Dayton, Ohio. Paints. Serial No. 410,842; May 2. Class 16.
Morrow, William, & Company, Inc., New York, N. Y. Pencils, blank forms, blank books, etc. Serial No. 411,304; May 2. Class 37.
Mullins, J. J., & Co., New York, N. Y. Butter. Serial No. 416,199; May 2. Class 46.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. Serial No. 416,200; May 2. Class 38.
N. V. Cultuur Maatschappy Sloeowok Sawangan, Samarang, West Java, Netherlands East Indies. Kapok, kapok seeds and rubber. Serial No. 412,657; May 2. Class 1.
N. V. Cultuur Maatschappy Sloeowok Sawangan, Samarang, West Java, Netherlands East Indies. Cocoa and Coffee. Serial No. 412,658; May 2. Class 46.
N. V. Hollandsche Draad- en Kabelfabriek, Amsterdam, Netherlands. Thermal insulating sheet materials and corrosion resistant coverings. Serial No. 414,305; May 2. Class 12.
Nash-Finch Company, Minneapolis, Minn. Canned fruits, vegetables, fruit juices, etc. Serial No. 414,883; May 2. Class 46.
Neptune Garment Company, Boston, Mass. Topcoats and raincoats. Serial No. 404,580; May 2. Class 39.
Newton Milling & Elevator Co. (See Midland Flour Milling Company, The.)
New York Evening Journal, Inc., New York, N. Y. Newspaper section. Serial No. 416,109; May 2. Class 38.
Occupational Index, Inc., Frenchtown, N. J., and New York, N. Y. Monthly bulletin. Serial No. 415,931; May 2. Class 38.
O'Hara, Levy & Mahon Inc., New York, N. Y. Piece goods. Serial No. 403,556; May 2. Class 42.
Panther-Panco Rubber Co., Inc., Chelsea, Mass. Composition soles. Serial No. 416,740; May 2. Class 39.
Parrot Speed Fastener Corporation, New York, and Long Island City, N. Y. Machine staples. Serial No. 412,080; May 2. Class 13.
Partee, Charles W., doing business as Select Products Company, Memphis, Tenn. Antiseptic preparations. Serial No. 415,485; May 2. Class 6.
Perfect Circle Company, The, Hagerstown, Ind. Trade periodical. Serial No. 416,741; May 2. Class 38.
Personal Book Shop, Inc., The, Boston, Mass. Books and magazines. Serial No. 416,336; May 2. Class 38.
Pickands, Mather & Company, Cleveland, Ohio. Coal. Serial No. 415,794; May 2. Class 1.
Pittsburgh & Ohio Mining Company, The, Cleveland, Ohio. Coal. Serial No. 406,825; May 2. Class 1.
Poucy, Charles F., doing business as The Absolute Co., Ottumwa, Iowa. Hair shampoo, and preparation for dandruff. Serial No. 413,241; May 2. Class 6.
Remington Rand Inc., Buffalo, N. Y. Electric dry shavers. Serial No. 416,583; May 2. Class 23.
Rhodes, Herbert A., New York, N. Y. Wooden cross with clock therein. Serial No. 415,741; May 2. Class 50.
Roberts, Clyde N., doing business as Roberts Onirub Co., Huntington, W. Va. Salve. Serial No. 415,523; May 2. Class 6.
Rubinstein, Helena, Inc., New York, N. Y. Face powder, lipstick, rouge, etc. Serial No. 414,799; May 2. Class 6.
S. M. A. Corporation, Chicago, Ill. Food for infant feeding. Serial No. 416,585; May 2. Class 46.
St. Regis Paper Company, New York, N. Y. Writing papers. Serial No. 409,630; May 2. Class 37.
Salfair, Inc., New York, N. Y. Women's hats. Serial No. 416,386; May 2. Class 39.
San Fernando Heights Lemon Association, San Fernando, Calif. Fresh citrus fruit. Serial No. 417,346; May 2. Class 46.
Scheuer, C., Company, New York, N. Y. Lockets, jewel boxes, cuff links, etc. Serial No. 415,962; May 2. Class 28.
Schoen, Elizabeth, New York, N. Y. Hats. Serial No. 416,923; May 2. Class 39.
Select Products Company. (See Partee, Charles W.)
Shapiro & Aronson, Inc., New York, N. Y. Lighting reflectors and shades. Serial No. 416,116; May 2. Class 34.
Shawnee Milling Company, Shawnee, Okla. Feeds. Serial No. 416,343; May 2. Class 46.
Sheffield, R. W., Houston, Tex. Ointment. Serial No. 414,898; May 2. Class 6.
Shuss, Samuel, doing business as Shuss Tobacco Company, New Haven, Conn. Smoking tobacco. Serial No. 415,919; May 2. Class 17.
Southern Saddlery Company, Chattanooga, Tenn. Golf bags. Serial No. 415,920; May 2. Class 22.
Standard Lime and Stone Company, The, Baltimore, Md. Tap hole cement or mixture. Serial No. 416,707; May 2. Class 12.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oil. Serial No. 413,802; May 2. Class 15.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Piston rings. Serial No. 417,510; May 2. Class 35.
Stanis. (See Stanley, Sinclair G.)
Stanley, Sinclair G., doing business as Stanis, Chicago, Ill. Perfume. Serial No. 417,033; May 2. Class 6.
Stanley, Sinclair G., doing business as Stanis, Chicago, Ill. Perfume. Serial No. 417,035; May 2. Class 6.
Tap-Sol Company, The, St. Louis, Mo. Solution for use in removing adhesive tape, corn plasters, etc., and ointment. Serial No. 415,528; May 2. Class 6.
Timmons, Lee R., doing business as Charles Paint Research Co., Kansas City, Mo. Paint, varnish, and lacquer softener. Serial No. 416,621; May 2. Class 16.
Trade-Wind Motorfans, Inc., Los Angeles, Calif. Fans and blowers, heating, ventilating and cooling and air conditioning units. Serial Nos. 412,013–14; May 2. Class 34.
Trump Products Corporation, New York, N. Y. Packaged sausage and canned ham. Serial No. 408,982; May 2. Class 46.
United Cigar-Whelan Stores Corporation, New York, N. Y. Soap. Serial No. 412,529; May 2. Class 4.
United States Smelting Refining and Mining Company. Portland, Maine, and Boston, Mass. Zinc in slabs or pigs. Serial No. 416,976; May 2. Class 14.
Victor Patch Co. (See Engert, Hyman E.)
Walker, Hiram, & Sons Inc., Peoria, Ill. Sloe gin. Serial No. 417,596; May 2. Class 49.
Warwick Club Gingerale Co., Inc., West Warwick, R. I. Orange dry soda, cream soda, grape soda, etc. Serial No. 416,590; May 2. Class 45.
Weatherall Engineers Incorporated, Providence, R. I. Fluid fuel burners. Serial Nos. 409,599–600; May 2. Class 34.
Weill, Raphael, & Company, doing business as The White House, San Francisco, Calif. Clothing for men and boys. Serial No. 402,039; May 2. Class 39.
Welch Fruit Products Co., Chicago, Ill. Flavorings for ice creams. Serial No. 408,142; May 2. Class 46.
Wells, Allan W. "Bill", doing business as Wells Feature Syndicate, San Antonio, Tex. News column. Serial No. 416,493; May 2. Class 38.
White House, The. (See Weill, Raphael, & Company.)
Whittaker Laboratories, Inc., New York, N. Y. Cream-like spermicidal substances. Serial No. 403,623; May 2. Class 6.
Wilcox, J. W., & Follett Co., Chicago, Ill. Publication. Serial No. 405,861; May 2. Class 38.
Winship-Bolt Company, Wakefield, Mass. Girdles and pantie girdles. Serial No. 416,753; May 2. Class 39.
Wishnick-Tumpeer, Inc., Chicago, Ill. Acetic acid, acetone; alcohol, etc. Serial No. 413,260; May 2. Class 6.
Woodman, A. G., Company, Grand Rapids, Mich. Bee smokers. Serial No. 414,090; May 2. Class 50.
Woods, Woodson K., doing business as Chaumiere Farms, Steelville, Mo. Soil fertilizer material. Serial No. 416,669; May 2. Class 10.
York, Willard D., Rolling Hills, Calif. Toiletries. Serial No. 415,681; May 2. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Antacid and absorbent. 366,833; May 2; Serial No. 412,322; published Feb. 7, 1939. Class 6.
Abbott Laboratories, North Chicago, Ill. Arsenical, spirocheticidal, and trypanocidal substance. 366,849; May 2; Serial No. 413,093; published Feb. 7, 1939. Class 6.
Affiliated Clothiers, Inc., New York, N. Y. Clothing. 367,001; May 2. Class 39.
American Grease Stick Company. (See Rosen, Florence.)
American Pop Corn Company, Sioux City and Schaller, assignor to American Pop Corn Company, Sioux City, Iowa. Popping-corn. 126,124; renewed July 29, 1939.
American Pop Corn Company, Sioux City and Schaller, assignor to American Pop Corn Company, Sioux City, Iowa. Popping-corn. 125,925; renewed July 15, 1939.
American Pop Corn Company, Sioux City and Schaller, assignor to American Pop Corn Company, Sioux City, Iowa. Popping-corn. 125,927; renewed July 15, 1939.
American Products Co. (See Welt, Morris.)
American Soya Products Corporation, Evansville, Ind. Food product. 366,829; May 2; Serial No. 412,081; published Feb. 21, 1939. Class 46.
American Zinc Institute, Incorporated, New York, N. Y. Zinc coated ferrous sheets and sheet roofing. 366,841; May 2; Serial No. 412,690; published Feb. 21, 1939. Class 14.
Artcraft Silk Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. 366,950; May 2. Class 39.
Associated Distributors, Inc., Chicago, Ill. Lipstick, rouge, face powder, etc. 366,823; May 2; Serial No. 411,673; published Dec. 6, 1938. Class 6.
Autovent Fan & Blower Co., Chicago, Ill. Ventilating louvers. 366,879; May 2; Serial No. 413,850; published Feb. 21, 1939. Class 34.
Austenal Laboratories, Inc., New York, N. Y. Porcelain teeth, dentures, denture parts, etc. 366,880; May 2; Serial No. 413,852; published Feb. 21, 1939. Class 44.
Axton-Fisher Tobacco Company, The, Louisville, Ky. Cigarettes. 366,965; May 2. Class 17.
Baldwin Laboratories Inc., Saegertown, Pa. Insecticides, compositions for exterminating insects. 366,904; May 2; Serial No. 414,092; published Feb. 7, 1939. Class 6.
Ballantine, P., & Sons, Newark, N. J. Beer, ale, porter, and stout. 366,888; May 2; Serial No. 413,926; published Feb. 21, 1939. Class 48.
Beir, Arthur, & Co. Inc., New York, N. Y. Piece goods. 366,854; May 2; Serial No. 413,262; published Feb. 21, 1939. Class 42.
Bemis Bro. Bag Company, St. Louis, Mo. Parcel-post mailing-envelops. 126,640; renewed Sept. 30, 1939.
Best & Co., Inc., New York, N. Y. Hosiery. 366,977; May 2. Class 39.
Bloom, Charles, Inc., New York, N. Y. Chintz drapery fabrics. 366,957; May 2. Class 42.
Bloomingdale Bros., Inc., New York, N. Y. Coats, suits, dresses, etc. 366,971; May 2. Class 39.
Bloomingdale Bros., Inc., New York, N. Y. Hats, dresses, coats, etc. 367,002; May 2. Class 39.
Boott Mills, Lowell, Mass. Cotton piece goods. 126,514; renewed Sept. 16, 1939.
Borden Company, The. (See Dry Milk Company, The, assignor.)
Brewer-Titchener Corporation, The, Cortland, N. Y. Foldable ironing tables. 366,932–3; May 2; Serial Nos. 414,391–2; published Feb. 21, 1939. Class 24.
Broadstreet's, Inc., New York, N. Y. Shirts and collars, pajamas, etc. 366,952; May 2. Class 39.
Brower, Charles S., Philadelphia, Pa. Hats. 366,982; May 2. Class 39.
Brown, William A., Philadelphia, Pa. Air conditioning devices. 367,000; May 2. Class 34.
Butler Brothers, Chicago, Ill. Men's work clothing. 366,992; May 2. Class 39.
Calbear Canneries Co., San Francisco, Calif. Canned fruits for salad. 366,884; May 2; Serial No. 413,893; published Feb. 21, 1939. Class 46.
Campbell, Russell, doing business as The Miller Laboratories, Gettysburg, Pa. Trusses. 366,838; May 2; Serial No. 412,627; published Feb. 21, 1939. Class 44.
Candy & Company, Inc., Chicago, Ill. Candle burning sanctuary lamps. 366,784; May 2; Serial No. 399,439; published Feb. 21, 1939. Class 34.
Caperton Chemical Co., Daytona Beach, Fla. Compound for preventing and removing mold, killing moths, and the like. 366,862; May 2; Serial No. 413,433; published Feb. 7, 1939. Class 6.
Carbide and Carbon Chemicals Corporation, New York, N. Y. Synthetic staple fibre. 366,918; May 2; Serial No. 414,215; published Feb. 21, 1939. Class 1.
Carson Pirie Scott & Company, Chicago, Ill. Dresses. 366,954; May 2. Class 39.
Ceroxylon Company, The, Boston, Mass., to The Ceroxylon Company, Keene, N. H. Thread-waxing compound. 126,399; renewed Aug. 26, 1939.
Chairs Incorporated, New York, N. Y. Articles of furniture. 366,976; May 2. Class 32.
Champion Orange Company, Redlands, Calif. Fresh oranges. 366,778; May 2; Serial No. 392,084; published Oct. 4, 1938. Class 46.
Chance Brothers and Co. Limited, West Smethwick, England. Reflectors. 366,801; May 2; Serial No. 408,417; published Feb. 21, 1939. Class 34.
Chemical & Pigment Company, The. (See Glidden Company, The.)
Cherry, William R., Williamston, N. C. Preparation for rheumatism, neuritis, arthritis, etc. 366,853; May 2; Serial No. 413,218; published Jan. 31, 1939. Class 6.
Clark, Louis K., New York, N. Y. Boxes. 366,889; May 2; Serial No. 413,929; published Feb. 21, 1939. Class 2.
Cloverdale Spring Company, Baltimore, Md. Beverages, and syrups, extracts, and flavors used in making the same. 366,793; May 2; Serial No. 403,988; published Feb. 21, 1939. Class 45.
Club Razor & Blade Manufacturing Corporation, Newark, N. J. Razor blades. 366,939; May 2. Class 23.
Cluett, Peabody & Co., Inc., Troy, N. Y. Neckties. 366,991; May 2. Class 39.
Cohen, Goldman & Co. Inc., New York, N. Y. Outer garments. 366,970; May 2. Class 39.
Colorado Industrial Workshop for the Blind, The, Denver, Colo. Brooms. 125,191; renewed Apr. 22, 1939.
Columbia Mills, Inc., The, New York, N. Y. Window shade cloth in the piece. 366,865; May 2; Serial No. 413,539; published Feb. 21, 1939. Class 42.
Commonwealth Shoe and Leather Company, Whitman, Mass. Men's shoes. 366,966; May 2. Class 39.
Cosmetics Research Corporation, New Haven, Conn. Hair tonic, shaving antiseptic pencils, shampoos, etc. 366,872; May 2; Serial No. 413,621; published Feb. 14, 1939. Class 6.
Coveto Company. (See Schipper, Lazar.)
Crown Can Company, Philadelphia, Pa. Metal cans. 366,873; May 2; Serial No. 413,666; published Feb. 21, 1939. Class 2.
Crown Can Company, Philadelphia, Pa. Metal cans. 366,927; May 2; Serial No. 414,341; published Feb. 21, 1939. Class 2.
Cuno Engineering Corporation, The, Meriden, Conn. Electric tobacco lighters. 366,807; May 2; Serial No. 410,022; published Feb. 21, 1939. Class 21.
Curcio, Vincent J., doing business as V. J. Curcio Co., Jersey City, N. J. Permanent wave lotion. 366,863; May 2; Serial No. 413,435; published Feb. 14, 1939. Class 6.
Darco Corporation. (See Refining Products Corporation, assignor.)
De Pinna, A., Co., Inc., New York, N. Y. Women's and misses' gloves. 366,963; May 2. Class 39.
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Chemical products. 366,804; May 2; Serial No. 409,385; published Feb. 14, 1939. Class 6.
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Industrial heat treating, cooling, and drying chambers, ovens, etc. 366,805; May 2; Serial No. 409,389; published Feb. 21, 1939. Class 34.
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Chemical products. 366,806; May 2; Serial No. 409,390; published Feb. 14, 1939. Class 6.
Dietetic Research Laboratories, Inc., Bloomfield, N. J. Preparation of vitamins and minerals. 366,808; May 2; Serial No. 410,173; published Jan. 31, 1939. Class 6.
Divco-Twin Truck Company, Detroit, Mich. Motor delivery trucks. 366,842; May 2; Serial No. 412,756; published Feb. 21, 1939. Class 19.
Dorset Woolen Company, Slocum, R. I. Piece goods. 367,003; May 2. Class 42.
Dovre Ski Binding Co., West Concord, Mass. Ski bindings. 366,843; May 2; Serial No. 412,757; published Feb. 21, 1939. Class 22.
Dry Milk Company, The, assignor, by mesne assignments, to The Borden Company, New York, N. Y. Desiccated milk. 126,147; renewed July 29, 1939.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Ink pigments. 366,850; May 2; Serial No. 413,116; published Feb. 21, 1939. Class 11.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Explosive compounds, powder bags, time bombs, etc. 366,851; May 2; Serial No. 413,119; published Feb. 21, 1939. Class 9.
Epstein, Burney, Inc., New York, N. Y. Dresses, blouses, and skirts. 366,964; May 2. Class 39.
Exley, Lyda A., doing business as Hom-Protector Company, Savannah, Ga. Roach paste. 366,809; May 2; Serial No. 410,585; published Feb. 7, 1939. Class 6.
Farnes & Hamilton, Rigby, Idaho. Medicinal preparation. 366,905; May 2; Serial No. 414,099; published Feb. 14, 1939. Class 6.

Faust, Charles C., Lake Charles, La. Healing salve. 366,791; May 2; Serial No. 401,775; published Feb. 14, 1939. Class 6.
Fay-Miss Brassiere Co., Inc., New York, N. Y. Brassières. 366,956; May 2. Class 39.
Federal Physician's Supply Co. (See Lawrence, Frederick E.)
Feltman & Curme Shoe Stores Company, The, Chicago, Ill. Shoes. 366,943–5; May 2. Class 39.
Firestone Tire & Rubber Company, The, Akron, Ohio. Resilient vehicle tires. 366,937; May 2; Serial No. 414,730; published Feb. 21, 1939. Class 35.
Fischer, H. G., & Co., Chicago, Ill. X-ray apparatus and parts thereof and accessories therefor, fluoroscopes, etc. 366,875; May 2; Serial No. 413,777; published Feb. 21, 1939. Class 44.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Heating and air conditioning units. 366,985; May 2. Class 34.
Florida Citrus Exchange, Tampa, Fla. Citrus fruits. 366,899; May 2; Serial No. 414,027; published Feb. 21, 1939. Class 46.
Forbes, Theodore B., Altus, Okla. Ophthalmic creme. 366,925; May 2; Serial No. 414,291; published Feb. 14, 1939. Class 6.
Ford, J. B., Co., Wyandotte, Mich. Cleaning, cleansing, and detergent preparations. 366,866; May 2; Serial No. 413,548; published Feb. 21, 1939. Class 4.
Fortune, W. P., Inc., New York, N. Y. Women's and misses' hats. 366,994; May 2. Class 39.
Fox-Knapp Corporation, New York, N. Y. Sportswear. 366,995; May 2. Class 39.
Frankenmuth Brewing Company, Frankenmuth, Mich. Beer. 366,890; May 2; Serial No. 413,935; published Feb. 21, 1939. Class 48.
Frantz, Charton C., doing business as The Frantz Company, Pittsburgh, Pa. Bread, rolls, buns, etc. 366,787; May 2; Serial No. 401,303; published Feb. 21, 1939. Class 46.
Geist, Irving, New York, N. Y. Blouses and dresses. 366,996; May 2. Class 39.
General Fireproofing Co., The, Youngstown, Ohio. Metal filing cabinets. 366,936; May 2; Serial No. 414,695; published Feb. 21, 1939. Class 32.
General Food Products Co. (See Safeway Stores, Inc.)
General Mills, Inc., Minneapolis, Minn. Food for animals. 366,891; May 2; Serial No. 413,940; published Feb. 21, 1939. Class 46.
General Motors Corporation, Detroit, Mich. Heating units, burners, boilers, etc. 366,845; May 2; Serial No. 412,809; published Feb. 21, 1939. Class 34.
General Products Company, Boston, Mass. Analgesic tablet. 366,934; May 2; Serial No. 414,400; published Feb. 14, 1939. Class 6.
General Stokers, Inc., Philadelphia, Pa. Mechanical stokers. 366,826; May 2; Serial No. 411,952; published Feb. 21, 1939. Class 34.
Gesellschaft für Neuzeitliche Bodenbehandlung m. b. H., Nanki-Vertrieb, Neubrandenburg and Berlin, Germany. Insecticides, fungicides, and silica products. 366,794; May 2; Serial No. 404,646; published Feb. 7, 1939. Class 6.
Ginsberg, Isaac, & Bros., New York, N. Y. Dresses. 366,951; May 2. Class 39.
Glidden Company, The, Cleveland, Ohio. Soybean protein flour for making adhesives, plastics, etc. 366,906; May 2; Serial No. 414,105; published Feb. 21, 1939. Class 1.
Glidden Company, The, doing business as The Chemical & Pigment Company, Cleveland, Ohio. Chemicals. 366,928; May 2; Serial No. 414,345; published Feb. 14, 1939. Class 6.
Glidden Company, The, Cleveland, Ohio. Blended, flavored cereals used as a binder in comminuted meat products. 366,907; May 2; Serial No. 414,106; published Feb. 21, 1939. Class 46.
Glidden Company, The, Cleveland, Ohio. Isolated vegetable protein for making adhesives, etc. 366,929; May 2; Serial No. 414,346; published Feb. 21, 1939. Class 1.
Goff, Roy, Ardmore, Pa. Blotting paper. 366,908; May 2; Serial No. 414,108; published Feb. 21, 1939. Class 37.
Goldsmith Bros., New York, N. Y. Tooth brushes. 366,909; May 2; Serial No. 414,109; published Feb. 21, 1939. Class 29.
Gonzalez, Manuel P., Buenos Aires, Argentina. Razors, safety-razor blades, scissors, etc. 366,828; May 2; Serial No. 411,990; published Feb. 21, 1939. Class 23.
Gotham Sales Company Inc., New York, N. Y. Sewing needles. 366,946; May 2. Class 40.
Graham Co., Inc., The, New York, N. Y. Dog and cat food, bird seed, tea, etc. 366,824; May 2; Serial No. 411,690; published Feb. 21, 1939. Class 46.
Grant, W. T., Company, New York, N. Y. Men's and boys' hose. 366,981; May 2. Class 39.
Guilleaumaud, Jeanne, Nice, France. Beauty products for toilet purposes. 366,915; May 2; Serial No. 414,187; published Feb. 14, 1939. Class 6.
Guttman, Joseph, & Bros., Inc., New York, N. Y. Knitted dresses, blouses, skirts, etc. 366,997; May 2. Class 39.
H. & M. Neckwear Co. (See Mayer, William.)
Hacking Bros. Inc. (See Steinhardt Company, Inc., The, assignor.)
Hagaman, Charles B., doing business as Medi-phragm Products, Denver, Colo. Antiseptic diaphragms and fitting rings. 366,935; May 2; Serial No. 414,447; published Feb. 21, 1939. Class 44.
Hampshire, F. W., & Co. Ltd., assignor to F. W. Hampshire & Co. Ltd., Derby, England. Emollient tablets. 125,809; renewed June 17, 1939.
Heatex Company. (See Steich, Louis R.)
Heddon's, James, Sons, Dowagiac, Mich. Steel shafts for golf clubs. 366,876; May 2; Serial No. 413,783; published Feb. 21, 1939. Class 22.
Heddon's, James, Sons, Dowagiac, Mich. Steel shafts for golf clubs. 366,877; May 2; Serial No. 413,785; published Feb. 21, 1939. Class 22.
Hendricks, Frank R., doing business as Majestic Venetian Blind Mfrs., Puyallup, Wash. Venetian blinds. 366,993; May 2. Class 32.
Hom-Protector Company. (See Exley, Lyda A.)
Hopkins, H. H., Company, Chicago, Ill. Construction materials. 126,697; renewed Sept. 30, 1939.
House of McAteer, Inc., The, New York, N. Y. Liqueur-cordial. 366,916; May 2; Serial No. 414,191; published Feb. 21, 1939. Class 49.
Hovden, K. Co., assignor, by mesne assignments, to Hovden Food Products Corporation, Monterey, Calif. Canned sardines and tuna fish. 125,449–50; renewed May 20, 1939.
Hudson Fur Dyeing Company, Newark, N. J. Fur skins. 366,989; May 2. Class 1.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Chemotherapeutic agent. 366,867; May 2; Serial No. 413,552; published Feb. 14, 1939. Class 6.
Imperial Manufacturing Co., New York, N. Y. Girdles, brassières, and pantie girdles. 366,967; May 2. Class 39.
International Braid Company, Providence, R. I. Shoe laces. 366,960; May 2. Class 40.
International Radio Corporation, Ann Arbor, Mich. Photographic enlarging and printing apparatus. 366,847; May 2; Serial No. 413,044; published Feb. 21, 1939. Class 26.
International Radio Corporation, Ann Arbor, Mich. Photographic exposure meter (using electric cell). 366,848; May 2; Serial No. 413,045; published Feb. 21, 1939. Class 26.
International Radio Corporation, Ann Arbor, Mich. Photographic enlarging apparatus and printing apparatus. 366,855; May 2; Serial No. 413,266; published Feb. 21, 1939. Class 26.
International Radio Corporation, Ann Arbor, Mich. Clocks and parts and cases therefor. 366,881; May 2; Serial No. 413,871; published Feb. 21, 1939. Class 27.
International Shoe Co., St. Louis, Mo. Boots and shoes. 366,984; May 2. Class 39.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 366,962; May 2. Class 39.
Irving, Frank J., Los Angeles, Calif. Message cards. 366,789; May 2; Serial No. 401,532; published Feb. 21, 1939. Class 37.
Jack Lord Hats, Inc., New York, N. Y. Men's hats and hosiery. 266,973; May 2. Class 39.
Jacobs, Charles M., Springfield, Mass. Medicinal preparation. 126,700; renewed Sept. 30, 1939.
James', Inc., Atlantic City, N. J. Confections. 366,781; May 2; Serial No. 395,949; published Feb. 21, 1939. Class 46.
Kearns Brothers, Inc., Pinckneyville, Ill. Dresses. 366,955; May 2. Class 39.
Keasbey & Mattison Company, Ambler, Pa. Magnesium carbonate and magnesium oxide. 366,922; May 2; Serial No. 414,264; published Feb. 7, 1939. Class 6.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 366,921; May 2; Serial No. 414,249; published Feb. 21, 1939. Class 11.
Keratol Company, The, Newark, N. J. Artificial leather. 126,600; renewed Sept. 23, 1939.
Kitchen Kraft Foods Corporation, Brooklyn, N. Y. Canned sauce a-la-king. 366,783; May 2; Serial No. 399,359; published Feb. 21, 1939. Class 46.
Kohrs Packing Company, Davenport, Iowa. Cured and smoked clear-plate pork. 126,709; renewed Sept. 30, 1939.
Kress, S. H., and Company, New York, N. Y. Facial tissues, paper towels, paper napkins, etc. 366,864; May 2; Serial No. 413,447; published Feb. 21, 1939. Class 37.
La Crosse, Clifford G., doing business as La Crosse Laboratories, Baltimore, Md. External antiphlogistic absorbent. 366,858; May 2; Serial No. 413,312; published Feb. 7, 1939. Class 6.
Lawrence, Frederick E., doing business as Federal Physician's Supply Co., Denver, Colo. Vaginal diaphragms. 366,919; May 2; Serial No. 414,229; published Feb. 21, 1939. Class 44.
Laxroy Co., The. (See Royster, Stephen S.)
Lay, Joseph, Co. Inc., The, Portland, Ind. Brooms. 366,930; May 2; Serial No. 414,354; published Feb. 21, 1939. Class 29.
Leavitt, Leo B., doing business as Orchid Laboratories, Chicago, Ill. Wave set solution, hand cream, cold cream, etc. 366,798; May 2; Serial No. 407,500; published Feb. 7, 1939. Class 6.

Leggett, Francis H., & Company, New York, N. Y. Baking powder. 366,788; May 2; Serial No. 401,493; published Feb. 21, 1939. Class 46.
Lehman Bros. Corp., Jersey City, N. J. Paints, paint enamels, varnishes, etc. 366,931; May 2; Serial No. 414,355; published Feb. 21, 1939. Class 16.
Leray Corporation, New York, N. Y. Concentrated electrical spotlights, bulbs, lamps, etc. 366,834; May 2; Serial No. 412,345; published Feb. 21, 1939. Class 21.
Levin, Harris, Smith, Inc., New York, N. Y. Men's outer shirts and pajamas. 366,998–9; May 2. Class 39.
Lewis, G. B., Company, Watertown, Wis. Venetian blind slats. 366,920; May 2; Serial No. 414,230; published Feb. 21, 1939. Class 32.
London Solvents Limited, London, England. Medicated preparation. 366,830; May 2; Serial No. 412,109; published Feb. 7, 1939. Class 6.
Lord, Jay, Hatters. (See Wald, Louis.)
Love & Amos Coal Company, Nashville, Tenn. Coal. 366,868; May 2; Serial No. 413,555; published Feb. 21, 1939. Class 1.
Luton, Alice, Meriden, Conn. Pads saturated with a facial cleansing preparation, cleansing creams, etc. 366,800; May 2; Serial No. 408,040; published Feb. 14, 1939. Class 6.
Madison-Kipp Corporation, Madison, Wis. Die casting machines. 366,878; May 2; Serial No. 413,834; published Feb. 21, 1939. Class 23.
Maison Jeurelle-Seventeen, Inc., New York, N. Y. Chemical preparations. 366,816; May 2; Serial No. 411,033; published Feb. 14, 1939. Class 6.
Majestic Venetian Blind Mfrs. (See Hendricks, Frank R.)
Marks, Samuel I., Chicago, Ill. Toilet preparations. 366,797; May 2; Serial No. 406,343; published Feb. 14, 1939. Class 6.
Marlboro Shirt Company, Inc., Baltimore, Md. Outer shirts for men and boys. 366,980; May 2. Class 39.
Marshall Field & Company, Chicago, Ill. Sheets and pillow cases. 366,894; May 2; Serial No. 413,987; published Feb. 21, 1939. Class 42.
Mayer, William, doing business as H. & M. Neckwear Co., New York, N. Y. Neckties. 366,987; May 2. Class 39.
McAteer, James A., & Sons, Inc., assignor, by mesne assignments, to George L. Neff, Jr., Pittsburgh, Pa. Coffee and tea. 124,861; renewed Mar. 18, 1939.
Medi-phragm Products. (See Hagaman, Charles B.)
Mer-Q-Ree, Incorporated, Bethesda, Md. Fungicides. 366,900; May 2; Serial No. 414,036; published Feb. 7, 1939. Class 6.
Metropolitan Body Company, The, Bridgeport, Conn. Automotive vehicles. 366,846; May 2; Serial No. 412,979; published Feb. 21, 1939. Class 19.
Michael, Harry V., doing business as Michael's Cosmetic and Beauty Studio, Los Angeles, Calif. Cosmetics. 366,779; May 2; Serial No. 393,543; published Feb. 14, 1939. Class 6.
Middletown Silver Company, The, assignor to The Middletown Silver Company, Middletown, Conn. Silver-plated hollow ware and tableware. 126,040; renewed July 22, 1939.
Miller Laboratories, The. (See Campbell, Russell A.)
Minnesota Valley Canning Company, Le Sueur, Minn. Canned peas. 366,796; May 2; Serial No. 404,653; published Feb. 21, 1939. Class 46.
Mold Form Brassiere, Inc., New York, N. Y. Bandeaus, brassières, girdles, etc. 366,972; May 2. Class 39.
Moore, Richard J., New York, N. Y. Porous disseminators for perfumes. 366,941; May 2. Class 50.
Mossberg Pressed Steel Corporation, Attleboro, Mass. Accessories for textile machinery. 366,859; May 2; Serial No. 413,313; published Feb. 21, 1939. Class 23.
Movie Productions. (See Straus, Stanley M.)
Mutual Orange Distributors, Redlands, Calif. Citrus fruits and juices. 366,831; May 2; Serial No. 412,150; published Feb. 21, 1939. Class 46.
National Carbon Company, Inc., New York, N. Y. Electric lamps or bulbs. 366,825; May 2; Serial No. 411,894; published Feb. 21, 1939. Class 21.
National Glove Company, The, Columbus, Ohio. Gloves. 366,947; May 2. Class 39.
Naturway Products Co. (See Schulman, Nathan.)
Neff, George L., Jr. (See McAteer, James A., & Sons, Inc., assignor.)
Neff, George L., to George L. Neff, Jr., Pittsburgh, Pa., successor. Coffee, tea, cocoa, etc. 125,753; renewed June 10, 1939.
Neusteter Co., The, Denver, Colo. Dresses, wraps, jackets, etc. 366,988; May 2. Class 39.
North Bro's Mf'g Co., Philadelphia, Pa. Screw drivers, chucks, drills, and countersinks. 366,892; May 2; Serial No. 413,954; published Feb. 21, 1939. Class 23.
Northland Ski Manufacturing Company, St. Paul, Minn. Sporting goods. 124,569; renewed Feb. 25, 1939.
Orchid Laboratories. (See Leavitt, Leo B.)
Osborne, Garrett & Co. Limited, London, England. Dyes for the hair. 366,837; May 2; Serial No. 412,524; published Feb. 7, 1939. Class 6.
Pacific Trading Company, Inc., San Francisco, Calif. Medicinal pine extract. 366,818; May 2; Serial No. 411,509; published Feb. 14, 1939. Class 6.
Panther-Panco Rubber Co. Inc., Chelsea, Mass. Rubber soles. 366,940; May 2. Class 39.
Paramount Dress Co., New York, N. Y. Dresses and dress ensembles. 366,953; May 2. Class 39.
Parker Boyswear Corp., New York, N. Y. Boys' knitwear. 366,986; May 2. Class 39.
Penick & Ford, Ltd., New Orleans, La., assignor to Penick & Ford, Ltd. Incorporated, New York, N. Y. Molasses and table-syrups. 126,747; renewed Sept. 30, 1939.
Peninsular Chemical Co., to The Penslar Company, Detroit, Mich. Face-powder and talcum powder. 126,463; renewed Aug. 26, 1939.
Penslar Company, The. (See Peninsular Chemical Co.)
Pfeiffer, S., Mfg. Co., St. Louis, Mo. Nose and throat drops. 366,792; May 2; Serial No. 402,647; published Feb. 14, 1939. Class 6.
Pinard, Henry, doing business as Pinard Company, Manchester, N. H. Composition for repairing radiators, cracked cylinder heads, and split water jackets. 366,901; May 2; Serial No. 414,040; published Feb. 14, 1939. Class 6.
Pinaud Incorporated, New York, N. Y. Eye make-up product. 366,870; May 2; Serial No. 413,593; published Feb. 14, 1939. Class 6.
Pioneer Rubber Company, The, Willard, Ohio. Rubber gloves. 366,968; May 2. Class 39.
Rapid Gas Corporation, Cedar Rapids, Iowa. Liquefied petroleum gas. 366,777; May 2; Serial No. 390,381; published Feb. 7, 1939. Class 6.
Refining Products Corporation, New York, N. Y., assignor to Darco Corporation, Wilmington, Del. Decolorizing-carbon. 126,469; renewed Aug. 26, 1939.
Refractories Company, New York, assignor, by mesne assignments, to Sanford C. Smith Refractories, Inc., Buffalo, N. Y. Fire-brick cement. 124,989; renewed Apr. 1, 1939.
Reichhold Chemicals, Inc., Detroit, Mich. Oils including processed oils and synthetic oils, and glycerine. 366,814; May 2; Serial No. 410,979; published Feb. 14, 1939. Class 6.
Richter & Phillips Company, The, Cincinnati, Ohio. Belts. 366,961; May 2. Class 39.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Zephyr gingham, sheeting, sheets, etc. 366,852; May 2; Serial No. 413,199; published Feb. 21, 1939. Class 42.
Rosen, Florence, doing business as American Grease Stick Company, Muskegon Heights, Mich. Penetrating rubber lubricant. 366,882; May 2; Serial No. 413,881; published Feb. 14, 1939. Class 15.
Rosenholz, J., Inc., New York, N. Y. Piece goods. 366,926; May 2; Serial No. 414,329; published Feb. 21, 1939. Class 42.
Roxborough Cleanser Co. (See Wentzel, Harry H.)
Royster, Stephen S., doing business as The Laxroy Co., Shelby, N. C. Laxative pills. 366,785; May 2; Serial No. 399,859; published Feb. 14, 1939. Class 6.
Runway Trap Co. (See Thada, Walter L.)
Rustol Laboratories, Maryville, Tenn. Preparation for nose and throat infections. 366,832; May 2; Serial No. 412,158; published Feb. 14, 1939. Class 6.
Safeway Stores, Inc., also doing business as General Food Products Co., Vernon and Oakland, Calif. Canned grapefruit. 366,895; May 2; Serial No. 414,003; published Feb. 21, 1939. Class 46.
Safeway Stores, Inc., also doing business as General Food Products Co., Vernon and Oakland, Calif. Canned tomato juice. 366,896; May 2; Serial No. 414,005; published Feb. 21, 1939. Class 46.
Safeway Stores, Inc., also doing business as General Food Products Co., Vernon and Oakland, Calif. Canned grapefruit juice. 366,897; May 2; Serial No. 414,006; published Feb. 21, 1939. Class 46.
St. Joseph Hat & Cap Company, St. Joseph, Mo. Hats and caps. 366,978; May 2. Class 39.
Saks and Company, New York, N. Y. Ladies' shoes. 366,949; May 2. Class 39.
Saks & Company, New York, N. Y. Women's and misses' shoes. 366,958; May 2. Class 39.
Saks & Company, New York, N. Y. Women's and misses' shoes. 366,969; May 2. Class 39.
Sauzé Frères & Cie, Colombes, France. Perfumes, face powder, toilet water, etc. 366,786; May 2; Serial No. 400,614; published Jan. 31, 1939. Class 6.
Schipper, Lazar, doing business as Coveto Company, Los Angeles, Calif. Concentrated vegetable preparation. 366,815; May 2; Serial No. 411,025; published Feb. 14, 1939. Class 6.
Schulman, Nathan, doing business as Naturway Products Co., Long Beach, Calif. Body weight control preparation. 366,871; May 2; Serial No. 413,594; published Jan. 31, 1939. Class 6.
Sealtest, Inc., Baltimore, Md., and New York, N. Y. Transparent composition wrappers. 366,874; May 2; Serial No. 413,685; published Feb. 21, 1939. Class 37.
Segal Safety Razor Corporation, New York, N. Y. Odometer devices. 366,782; May 2; Serial No. 396,168; published Feb. 21, 1939. Class 26.
Seiberling Latex Products Company, Barberton, Ohio. Rubber baby pants, bibs, and bathing caps. 366,948; May 2. Class 39.
Shriner, Marie A., Chicago, Ill. Ointment. 366,856; May 2; Serial No. 413,282; published Feb. 14, 1939. Class 6.
Shwayder Bros., Inc., Denver, Colo. Trunks, suitcases, and traveling bags. 366,822; May 2; Serial No. 411,669; published Feb. 21, 1939. Class 3.

Silmo Chemical Corporation, Vineland, N. J. Feed for poultry and live stock. 366,857; May 2; Serial No. 413,283; published Feb. 21, 1939. Class 46.

Simplex Wire & Cable Company, Cambridge, Mass. Insulated electrical conducting wire and cable. 366,885; May 2; Serial No. 413,915; published Feb. 21, 1939. Class 21.

Sinclair Refining Company, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Oils. 126,083; renewed July 22, 1939.

Skelgas Company, Kansas City, Mo. Gas stoves, heaters, water heaters, etc. 366,869; May 2; Serial No. 413,568; published Feb. 21, 1939. Class 34.

Smales, George, Jr., Martins Ferry, Ohio. Medicinal ointment. 366,799; May 2; Serial No. 407,769; published Nov. 8, 1938. Class 6.

Smith, James A., Philadelphia, Pa. General antiseptic, mouth wash, gargle, douche, etc. 366,795; May 2; Serial No. 404,586; published May 31, 1938. Class 6.

Smith, Sanford C., Refractories, Inc. (See Refractories Company, assignor.)

Smokador Manufacturing Co., Inc., Bloomfield, N. J. Ash receivers. 366,910; May 2; Serial No. 414,118; published Feb. 21, 1939. Class 8.

Societe des Antiferments, Neuilly-sur-Seine, France. Deodorant. 366,780; May 2; Serial No. 394,200; published Feb. 7, 1939. Class 6.

Southland Wine Corporation, Richmond, Va. Wines. 366,810–11; May 2; Serial Nos. 410,665–6; published Feb. 21, 1939. Class 47.

Southland Wine Corporation, Richmond, Va. Wines. 366,812; May 2; Serial No. 410,673; published Feb. 21, 1939. Class 47.

Standard Safety Equipment Co., Chicago, Ill. Solution adapted to form a protective coating on the human skin. 366,840; May 2; Serial No. 412,673; published Feb. 14, 1939. Class 6.

Stator Corporation, Providence, R. I. Refrigerators and combined refrigerators and water heaters. 366,790; May 2; Serial No. 401,757; published Feb. 21, 1939. Class 31.

Stearns Coal & Lumber Company, Incorporated, Stearns, Ky. Coal. 366,861; May 2; Serial No. 413,423; published Feb. 21, 1939. Class 1.

Steich, Louis R., doing business as Heatex Company, New York, N. Y. Compounds for use with coal for the purpose of securing more complete combustion. 366,913; May 2; Serial No. 414,167; published Feb. 14, 1939. Class 6.

Steinhardt Company, Inc., The, New York, N. Y., assignor to Hacking Bros. Inc., Providence, R. I. Whiskey, gin, rum, etc. 366,942; May 2. Class 49.

Stern, Yermie, Commercial Attractions, New York, N. Y. Dolls and toy buildings. 366,803; May 2; Serial No. 409,290; published Feb. 21, 1939. Class 22.

Straus, Stanley M., doing business as Movie Productions, Cincinnati, Ohio. Laxatives. 366,802; May 2; Serial No. 409,012; published Jan. 31, 1939. Class 6.

Stroock, S., & Co., Inc., New York, N. Y. Camel hair cloth in the piece. 366,914; May 2; Serial No. 414,168; published Feb. 21, 1939. Class 42.

Surety Rubber Company, The, Carrollton, Ohio. Rubber gloves. 366,959; May 2. Class 39.

Tabin-Picker & Company, Chicago, Ill. Piece goods. 366,819–20; May 2; Serial Nos. 411,618–19; published Feb. 21, 1939. Class 42.

Tabin-Picker & Company, Chicago, Ill. Rayon piece goods. 366,821; May 2; Serial No. 411,621; published Feb. 21, 1939. Class 42.

Tayloe Paper Company, Memphis, Tenn. School tablets, fillers, composition books, etc. 366,938; May 2; Serial No. 389,045; published Oct. 18, 1938. Class 37.

Terman Stores Corporation, Chicago, Ill. Hosiery. 366,979; May 2. Class 39.

Terven, Lewis, Salinas, Calif. Fresh vegetables. 366,886; May 2; Serial No. 413,918; published Feb. 21, 1939. Class 46.

Thada, Walter L., doing business as Runway Trap Co., Klemme, Iowa. Mouse traps. 366,990; May 2. Class 50.

Thrift Milling Company, Albany, Ga. Poultry, dairy, horse, and hog feed. 366,902; May 2; Serial No. 414,047; published Feb. 21, 1939. Class 46.

Top-All Mfg. Co. (See Wentz, Carl J.)

Topps Chewing Gum, Inc., Brooklyn, N. Y. Chewing gum. 366,911; May 2; Serial No. 414,123; published Feb. 21, 1939. Class 46.

Truax-Traer Coal Company, Chicago, Ill. Coal. 366,975; May 2. Class 1.

Tru Test Marketing & Merchandising Corp., Chicago, Ill. Sponges, chamois, mica, etc. 366,912; May 2; Serial No. 414,127; published Feb. 21, 1939. Class 1.

Turner Halsey Export Corporation, New York, N. Y. Cotton piece goods. 366,923; May 2; Serial No. 414,283; published Feb. 21, 1939. Class 42.

Union Bag & Paper Corporation, New York, N. Y. Wrapping paper. 366,893; May 2; Serial No. 413,963; published Feb. 21, 1939. Class 37.

Union Fork & Hoe Company, The, Columbus, Ohio. Hand operated tools. 366,883; May 2; Serial No. 413,884; published Feb. 21, 1939. Class 23.

Vi-Mintone, Inc., New York, N. Y. Tablets containing vitamins and mineral constituents. 366,835; May 2; Serial No. 412,399; published Feb. 7, 1939. Class 6.

Vischer Products Company, Chicago, Ill. Pressure cookers. 366,839; May 2; Serial No. 412,672; published Feb. 21, 1939. Class 13.

Waitt & Bond, Inc., Newark, N. J. Cigars. 366,917; May 2; Serial No. 414,211; published Feb. 21, 1939. Class 17.

Wald, Louis, doing business as Jay Lord Hatters, New York, N. Y. Men's hats. 366,983; May 2. Class 39.

Waterbury Chemical Company, Inc., New York, N. Y. Medicines and pharmaceutical preparations. 366,844; May 2; Serial No. 412,783; published Feb. 14, 1939. Class 6.

Weirton Steel Company, Weirton, W. Va. Sheet steel. 366,836; May 2; Serial No. 412,478; published Feb. 21, 1939. Class 14.

Welt, Morris, doing business as American Products Co., New York, N. Y. Roller stippling brushes. 366,924; May 2; Serial No. 414,284; published Feb. 21, 1939. Class 29.

Wembley, Inc., New Orleans, La. Cravats. 366,974; May 2. Class 39.

Wentzel, Harry H., doing business as Roxborough Cleanser Co., Philadelphia, Pa. Cleaning compound. 366,887; May 2; Serial No. 413,922; published Feb. 21, 1939. Class 4.

Wentz, Carl J., doing business as Top-All Mfg. Co., Wheeling, W. Va. Salve. 366,827; May 2; Serial No. 411,979; published Feb. 14, 1939. Class 6.

Westphal, Paul, Incorporated, New York, N. Y. Hair tonic, dressing, and dandruff preparations. 366,813; May 2; Serial No. 410,713; published Feb. 14, 1939. Class 6.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental chairs. 124,945; renewed Mar. 25, 1939.

Wilson, Andrew, Inc., Springfield, N. J. Plant insecticides. 366,860; May 2; Serial No. 413,374; published Feb. 14, 1939. Class 6.

Windsor Evaporated Milk Co., Cleveland, Ohio. Concentrated chocolate flavored milk. 366,903; May 2; Serial No. 414,089; published Feb. 21, 1939. Class 46.

Wool-Ray Products Corporation, New York, N. Y. Rayon piece goods. 366,898; May 2; Serial No. 414,021; published Feb. 21, 1939. Class 42.

Wyeth, John, and Brother, Incorporated, Philadelphia, Pa. Medicinal product. 366,817; May 2; Serial No. 411,288; published Jan. 31, 1939. Class 6.

LIST OF REGISTRANTS OF LABELS

Barr Rubber Products Company, The, Sandusky, Ohio. Tops. For Bathing Caps. 52,883; May 2.

Bird & Son, Inc., East Walpole, Mass. Sturdilline. For Cartons. 52,884; May 2.

Bruton Brewing Company, The, Baltimore, Md. Bruton Brewmaster Special Beer. For Beer. 52,885; May 2.

Bridges, Calvin, Springfield, Mass. Bridges Dated Fresh Eggs. For Fresh Eggs. 52,887; May 2.

California Consumers Corporation, Los Angeles, Calif. Best Circles. For Unsweetened Lemon Juice. 52,886; May 2.

Clayton, A. C., Printing Co., St. Louis, Mo. Fine Footwear. For Footwear. 52,888; May 2.

Davidson, Abe., doing business as Magic Cream Company, New York, N. Y. Davidson's Magic Dandruff Cream. For a Dandruff Cream. 52,889; May 2.

Dugan Bros. of New Jersey Inc., Newark, N. J., and Queens Village, N. Y. Dugan's Coffee Cake. For Coffee Cake. 52,890; May 2.

Eastman Kodak Company, Rochester, N. Y. New York World's Fair Bullet Camera. For Cameras. 52,891; May 2.

Elco Grease and Oil Company, The, Cleveland, Ohio. Gear Safety "2S". For an All Purpose Lubricant for All Types of Automotive and Industrial Gear Units. 52,892; May 2.

Emulsified Products, Inc., Jersey City, N. J. Ric-O-Lac. For Castor Oil 50% Emulsified in an Aqueous Solution. 52,893; May 2.

Giant Tiger Corporation, Philadelphia, Pa. Giant Tiger—America's Largest Saving Centers. For Grape Soda. 52,894; May 2.

Giant Tiger Corporation, Philadelphia, Pa. Giant Tiger—America's Greatest Super Markets. For Grape Soda. 52,895; May 2.

Hamilton, John, doing business as Party Products Co., Washington, D. C. Party. For Popcorn. 52,896; May 2.

Hart, F. Palmer, Red Hook, N. Y. Apple Aces. For Apples. 52,897; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Dixie-Doodle. For Boxes. 52,898; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Mexican Huaráche Sandals. For Boxes. 52,899; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Sunrise Sandal of 1940. For Boxes. 52,900; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Trail-Maker. For Boxes. 52,901; May 2.

Hoague-Sprague Corporation, Lynn, Mass. They See the Box First. For Boxes. 52,902; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Boots of Character. For Boxes. 52,903; May 2.

Hoague-Sprague Corporation, Lynn, Mass. They See the Box First. For Boxes. 52,904; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Walk-O-Pedic Shoes. For Boxes. 52,905; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Natural Cross Shoes. For Boxes. 52,906; May 2.

Hoague-Sprague Corporation, Lynn, Mass. La Conga. For Boxes. 52,907; May 2.

Hoague-Sprague Corporation, Lynn, Mass. HB. For Boxes. 52,908; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Tri Point Shoes. For Boxes. 52,909; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Barbara Jane. For Boxes. 52,910; May 2.

Hoague-Sprague Corporation, Lynn, Mass. Marco Polo. For Boxes. 52,911; May 2.

Jenkins, Harold, Tuba City, Ariz. Knoe Kap. For Pinon-Nuts. 52,912; May 2.

Lockshore Farms, Inc., Kalamazoo, Mich. Cinna Butter. For a Mix of Sweet Cream Butter with Sugar and Cinnamon. 52,913; May 2.

Magic Cream Company. (See Davidson, Abe.)

Marathon City Brewing Company, Marathon City, Wis. Marathon Beer. For Beer. 52,914; May 2.

Markus, Charles I., Los Angeles, Calif. Markus Velveteen. For Face Cream. 52,915; May 2.

Melville Dairy, Burlington, N. C. Melville Dairy Highest Quality Butter. For Butter. 52,916; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Lady Frances. For Footwear. 52,917; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Lustig's Co-Ed. For Footwear. 52,918; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. The Molly Stark. For Shoes. 52,919; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Social-Lite. For Footwear. 52,920; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. M. J. Saks Shoe Corp. Tred-Mode. For Shoes. 52,921; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. De Luxe. For Shoes. 52,922; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. DA. For Footwear. 52,923; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. New York Custom Made. For Footwear. 52,924; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Gibbs Arch Builder. For Footwear. 52,925; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Dorothy May. For Footwear. 52,926; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Ensco. For Footwear. 52,927; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Hollywood Styled. For Footwear. 52,928; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Dial. For Footwear. 52,929; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Youthful Mode. For Footwear. 52,930; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Bach Shoe Co. Hollywood Styles. For Footwear. 52,931; May 2.

Meyer, Frank C., Co. Inc., New York, N. Y. Smart Footwear. For Footwear. 52,932; May 2.

Mid-Valley Distilling Corp., Archbald, Pa. McHenry. For Pennsylvania Straight Rye Whiskey. 52,933; May 2.

New Chemical Company, Allentown, Pa. Hydro-Loc Brake Fluid. For Hydraulic Brake Fluid for Use in All Types of Hydraulic Brakes. 52,934; May 2.

Party Products Co. (See Hamilton, John.)

Pioneer Baking Company, Paterson, N. J. Ovenmaster the Perfect Bread. For Bread. 52,935; May 2.

Purity Oats Company, Keokuk, Iowa. Chief. For Rolled Oats. 52,936; May 2.

Purity Oats Company, Keokuk, Iowa. Purity. For Rolled Oats. 52,937; May 2.

Roberts, Leonard L., doing business as Roberts Laboratories, Denver, Colo. Trianon. For Hand Creme. 52,938; May 2.

Taylor Wine Company, The, Hammondsport, N. Y. New York State White Wine No. 45. For New York State White Wine. 52,939; May 2.

Tobacco By-Products & Chemical Corporation Incorporated, Louisville, Ky. "Black Leaf" Worm Powder. For a Scientifically Prepared Dry Compound of Nicotine That is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). 52,940–1; May 2.

Tobacco By-Products & Chemical Corporation Incorporated, Louisville, Ky. Nico-Fume Liquid. For a Highly Refined Solution of "Free" Nicotine. 52,942; May 2.

Tobacco By-Products & Chemical Corporation Incorporated, Louisville, Ky. Nico-Fume Tobacco-Paper Insecticide. For Tobacco-Paper Insecticide for Fumigating Greenhouses. 52,943; May 2.

Tru-Blu Bottlers, Charleston, S. C. Budapest Brand. For Ale. 52,944; May 2.

LIST OF REGISTRANTS OF PRINTS

Cosden Petroleum Corporation, Fort Worth, Tex. Look for the Sign of the Cosden Traffic Cop. For Gasoline and Motor Oil. 17,369; May 2.

Fay-Miss Brassiere Co., Inc., New York, N. Y. Loveliér Lines for Every Figure. For Brassières. 17,370; May 2.

Hamburger, Henry, Baltimore, Md. Kills Roaches and Many Other Household Pests. For Roach Powder, Ant Syrup and Rat Bait. 17,371; May 2.

Homer Laughlin China Co., The, Newell, W. Va. Genuine Fiesta Ensemble. For Colored Dinnerware, Glassware, and Cutlery. 17,372; May 2.

Parker Pen Company, The, Janesville, Wis. America's Most Popular Gift Pen—By Far—Is the Famous Parker. For Fountain Pens, Mechanical Pencils and Ink. 17,373; May 2.

Paulson, Charles A., San Francisco, Calif. Double Electric Life Comes Out. For Batteries. 17,374; May 2.

Skinner, Lloyd M., doing business as Skinner Manufacturing Company, Omaha, Nebr. Like Quiz Games? 'Cereal and Fruit' (Mailing Card). For Cereal. (Mailing Card). For Cereal. 17,375; May 2.

Taylor Wine Company, The, Hammondsport, N. Y. Captured Flavor. For Wines. 17,376; May 2.

Taylor Wine Company, The, Hammondsport, N. Y. On Your Way to the N. Y. World's Fair. For Wines. 17,377; May 2.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Love & Amos Coal Company. 366,868; May 2; Serial No. 413,555; published Feb. 21, 1939.

Coal. Stearns Coal & Lumber Company. 366,861; May 2; Serial No. 413,423; published Feb. 21, 1939.

Coal. Truax-Traer Coal Company. 366,975; May 2.

Fibre, Synthetic staple. Carbide and Carbon Chemicals Corporation. 366,918; May 2; Serial No. 414,215; published Feb. 21, 1939.

Protein, Isolated vegetable. Glidden Company. 366,929; May 2; Serial No. 414,346; published Feb. 21, 1939.

Skins, Fur. Hudson Fur Dyeing Company. 366,989; May 2.

Soy bean flour for making adhesives, plastics, etc. Glidden Company. 366,906; May 2; Serial No. 414,105; published Feb. 21, 1939.

Sponges, chamois, mica, etc. Tru Test Marketing & Merchandising Corp. 366,912; May 2; Serial No. 414,127; published Feb. 21, 1939.

CLASS 2

Boxes. L. K. Clark. 366,889; May 2; Serial No. 413,929; published Feb. 21, 1939.

Cans, Metal. Crown Can Company. 366,873; May 2; Serial No. 413,666; published Feb. 21, 1939.

Cans, Metal. Crown Can Company. 366,927; May 2; Serial No. 414,341; published Feb. 21, 1939.

Envelops, Parcel-post mailing. Bemis Bro. Bag Company. 126,640; renewed Sept. 30, 1939.

CLASS 3

Trunks, suitcases, and traveling bags. Shwayder Bros., Inc. 366,822; May 2; Serial No. 411,669; published Feb. 21, 1939.

CLASS 4

Cleaning, cleansing, and detergent preparations. J. B. Ford Company. 366,866; May 2; Serial No. 413,548; published Feb. 21, 1939.

Cleaning compound. H. H. Wentzel. 366,887; May 2; Serial No. 413,922; published Feb. 21, 1939.

Thread-waxing compound. Ceroxylon Company, The. 126,399; renewed Aug. 26, 1939.

CLASS 6

Analgesic tablet. General Products Company. 366,934; May 2; Serial No. 414,400; published Feb. 14, 1939.

Antacid and absorbent. Abbott Laboratories. 366,833; May 2; Serial No. 412,322; published Feb. 7, 1939.
Antiphlogistic absorbent, External. C. G. La Crosse. 366,858; May 2; Serial No. 413,312; published Feb. 7, 1939.
Antiseptic, mouth wash, gargle, douche, etc., General. J. A. Smith. 366,795; May 2; Serial No. 404,586; published May 31, 1938.
Arsenical, spirocheticidal, and trypanocidal substance. Abbott Laboratories. 366,849; May 2; Serial No. 413,093; published Feb. 7, 1939.
Beauty products for toilet purposes. J. Guilleaumaud. 366,915; May 2; Serial No. 414,187; published Feb. 14, 1939.
Carbon, Decolorizing. Refining Products Corporation. 126,469; renewed Aug. 26, 1939.
Chemical preparations. Maison Jeurelle-Seventeen, Inc. 366,816; May 2; Serial No. 411,033; published Feb. 14, 1939.
Chemical products. Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 366,806; May 2; Serial No. 409,390; published Feb. 14, 1939.
Chemical products. Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 366,804; May 2; Serial No. 409,385; published Feb. 14, 1939.
Chemicals. Glidden Company. 366,928; May 2; Serial No. 414,345; published Feb. 14, 1939.
Chemotherapeutic agent. I. G. Farbenindustrie Aktiengesellschaft. 366,867; May 2; Serial No. 413,532; published Feb. 14, 1939.
Composition for repairing radiators, cracked cylinder heads and split water jackets. H. Pinard. 366,901; May 2; Serial No. 414,040; published Feb. 14, 1939.
Compound for preventing and removing mold, killing moths, and the like. Caperton Chemical Co. 366,862; May 2; Serial No. 413,433; published Feb. 7, 1939.
Compounds for use with coal for the purpose of securing more complete combustion. L. R. Steich. 366,913; May 2; Serial No. 414,167; published Feb. 14, 1939.
Cosmetics. H. V. Michael. 366,779; May 2; Serial No. 393,543; published Feb. 14, 1939.
Creme, Ophthalmic. T. B. Forbes. 366,925; May 2; Serial No. 414,291; published Feb. 14, 1939.
Deodorant. Societe des Antiferments. 366,780; May 2; Serial No. 394,200; published Feb. 7, 1939.
Dyes for the hair. Osborne, Garrett & Co. Limited. 366,837; May 2; Serial No. 412,524; published Feb. 7, 1939.
Emollient tablets. F. W. Hampshire & Co. Ltd. 125,809; renewed June 17, 1939.
Eye make-up product. Pinaud Incorporated. 366,870; May 2; Serial No. 413,593; published Feb. 14, 1939.
Fungicides. Mer-Q-Ree, Incorporated. 366,900; May 2; Serial No. 414,036; published Feb. 7, 1939.
Hair tonic and dressing, and dandruff preparations. Paul Westphal Incorporated. 366,813; May 2; Serial No. 410,713; published Feb. 14, 1939.
Hair tonic, shaving antiseptic pencils, shampoos, etc. Cosmetics Research Corporation. 366,872; May 2; Serial No. 413,621; published Feb. 14, 1939.
Insecticide, Plant. Andrew Wilson, Inc. 366,860; May 2; Serial No. 413,374; published Feb. 14, 1939.
Insecticides, compositions for exterminating insects. Baldwin Laboratories Inc. 366,904; May 2; Serial No. 414,092; published Feb. 7, 1939.
Insecticides, fungicides, and silica products. Gesellschaft für Neuzeitliche Bodenbehandlung m. b. H., Naaki-Vertrieb. 366,794; May 2; Serial No. 404,646; published Feb. 7, 1939.
Laxative pills. S. S. Royster. 366,785; May 2; Serial No. 399,859; published Feb. 14, 1939.
Laxatives. S. M. Straus. 366,802; May 2; Serial No. 409,012; published Jan. 31, 1939.
Lipstick, rouge, face powder, etc. Associated Distributors, Inc. 366,823; May 2; Serial No. 411,673; published Dec. 6, 1938.
Lotion, Permanent wave. V. J. Curcio. 366,863; May 2; Serial No. 413,435; published Feb. 14, 1939.
Magnesium carbonate and magnesium oxide. Kensbey & Mattison Company. 366,922; May 2; Serial No. 414,264; published Feb. 7, 1939.
Medicated preparation. London Solvents Limited. 366,830; May 2; Serial No. 412,109; published Feb. 7, 1939.
Medicinal pine extract. Pacific Trading Company. 366,818; May 2; Serial No. 411,509; published Feb. 14, 1939.
Medicinal preparation. Farnes & Hamilton. 366,905; May 2; Serial No. 414,099; published Feb. 14, 1939.
Medicinal preparation. C. M. Jacobs. 126,700; renewed Sept. 30, 1939.
Medicinal product. John Wyeth and Brother, Incorporated. 366,817; May 2; Serial No. 411,288; published Jan. 31, 1939.
Medicines and pharmaceutical preparations. Waterbury Chemical Company. 366,844; May 2; Serial No. 412,783; published Feb. 14, 1939.
Nose and throat drops. S. Pfeiffer Mfg. Co. 366,792; May 2; Serial No. 402,647; published Feb. 14, 1939.
Oils including processed oils and synthetic oils, and glycerine. Reichhold Chemicals, Inc. 366,814; May 2; Serial No. 410,979; published Feb. 14, 1939.
Ointment. M. A. Shriner. 366,856; May 2; Serial No. 413,282; published Feb. 14, 1939.
Ointment, Medicinal. G. Smales, Jr. 366,799; May 2; Serial No. 407,769; published Nov. 8, 1938.
Pads saturated with a facial cleansing preparation, cleansing creams, etc. A. Luton. 366,800; May 2; Serial No. 408,040; published Feb. 14, 1939.
Perfumes, face powder, toilet water, etc. Sauzè Fréres & Cie. 366,786; May 2; Serial No. 400,614; published Jan. 31, 1939.
Petroleum gas, Liquefied. Rapid Gas Corporation. 366,777; May 2; Serial No. 390,381; published Feb. 7, 1939.
Powder and talcum powder, Face. Peninsular Chemical Co. 126,463; renewed Aug. 26, 1939.
Preparation, Concentrated vegetable. L. Schipper. 366,815; May 2; Serial No. 411,025; published Feb. 14, 1939.
Preparation for rheumatism, neuritis, arthritis, etc. W. R. Cherry. 366,853; May 2; Serial No. 413,218; published Jan. 31, 1939.
Preparation for throat and nose infections. Rustol Laboratories. 366,832; May 2; Serial No. 412,158; published Feb. 14, 1939.
Preparation of vitamins and minerals. Dietetic Research Laboratories, Inc. 366,808; May 2; Serial No. 410,173; published Jan. 31, 1939.
Roach paste. L. A. Exley. 366,809; May 2; Serial No. 410,585; published Feb. 7, 1939.
Salve. C. J. Wentz. 366,827; May 2; Serial No. 411,979; published Feb. 14, 1939.
Salve, Healing. C. C. Faust. 366,791; May 2; Serial No. 401,775; published Feb. 14, 1939.
Solution adapted to form a protective coating on the human skin. Standard Safety Equipment Co. 366,840; May 2; Serial No. 412,673; published Feb. 14, 1939.
Tablets containing vitamins and mineral constituents. Vi-Mintone, Inc. 366,835; May 2; Serial No. 412,399; published Feb. 7, 1939.
Toilet preparations. S. I. Marks. 366,797; May 2; Serial No. 406,343; published Feb. 14, 1939.
Wave set solution, hand and cold cream, etc. L. B. Leavitt. 366,798; May 2; Serial No. 407,500; published Feb. 7, 1939.
Weight control preparation, Body. N. Schulman. 366,871; May 2; Serial No. 413,594; published Jan. 31, 1939.

CLASS 8

Ash receivers. Smokador Manufacturing Co. 366,910; May 2; Serial No. 414,118; published Feb. 21, 1939.

CLASS 9

Explosive compounds, powder bags, time bombs, etc. E. I. du Pont de Nemours and Company. 366,851; May 2; Serial No. 413,119; published Feb. 21, 1939.

CLASS 11

Carbon paper. Kee Lox Manufacturing Company. 366,921; May 2; Serial No. 414,249; published Feb. 21, 1939.
Ink pigments. E. I. du Pont de Nemours and Company. 366,850; May 2; Serial No. 413,116; published Feb. 21, 1939.

CLASS 12

Construction materials. H. H. Hopkins Company. 126,697; renewed Sept. 30, 1939.
Fire-brick cement. Refractories Company. 124,989; renewed Apr. 1, 1939.

CLASS 13

Cookers, Pressure. Vischer Products Company. 366,839; May 2; Serial No. 412,672; published Feb. 21, 1939.

CLASS 14

Ferrous sheets and sheet roofings, Zinc coated. American Zinc Institute, Incorporated. 366,841; May 2; Serial No. 412,690; published Feb. 21, 1939.
Steel, Sheet. Weirton Steel Company. 366,836; May 2; Serial No. 412,478; published Feb. 21, 1939.

CLASS 15

Lubricant, Penetrating rubber. F. Rosen. 366,882; May 2; Serial No. 413,881; published Feb. 14, 1939.
Oils. Sinclair Refining Company. 126,083; renewed July 22, 1939.

CLASS 16

Paints, paint enamels, varnishes, etc. Lehman Bros. Corp. 366,931; May 2; Serial No. 414,355; published Feb. 21, 1939.

CLASS 17

Cigars. Waitt & Bond, Inc. 366,917; May 2; Serial No. 414,211; published Feb. 21, 1939.
Cigarettes. Axton-Fisher Tobacco Company. 366,965; May 2.

CLASS 19

Trucks, Motor delivery. Divco-Twin Truck Company. 366,842; May 2; Serial No. 412,756; published Feb. 21, 1939.
Vehicles, Automotive. Metropolitan Body Company. 366,846; May 2; Serial No. 412,979; published Feb. 21, 1939.

CLASS 21

Lamps or bulbs, Electric. National Carbon Company. 366,825; May 2; Serial No. 411,894; published Feb. 21, 1939.
Lighters, Electric tobacco. Cuno Engineering Corporation. 366,807; May 2; Serial No. 410,022; published Feb. 21, 1939.
Spotlights, bulbs, lamps, etc., Concentrated electrical. Leray Corporation. 366,834; May 2; Serial No. 412,345; published Feb. 21, 1939.
Wire and cable, Insulated electrical conducting. Simplex Wire & Cable Company. 366,885; May 2; Serial No. 413,915; published Feb. 21, 1939.

CLASS 22

Dolls and toy buildings. Yermie Stern Commercial Attractions. 366,803; May 2; Serial No. 409,290; published Feb. 21, 1939.
Golf clubs, Steel shafts for. James Heddon's Sons. 366,876; May 2; Serial No. 413,783; published Feb. 21, 1939.
Shafts for golf clubs, Steel. James Heddon's Sons. 366,877; May 2; Serial No. 413,785; published Feb. 21, 1939.
Ski bindings. Dovre Ski Binding Co. 366,843; May 2; Serial No. 412,757; published Feb. 21, 1939.
Sporting goods. Northland Ski Manufacturing Company. 124,569; renewed Feb. 25, 1939.

CLASS 23

Accessories for textile machinery. Mossberg Pressed Steel Corporation. 366,859; May 2; Serial No. 413,313; published Feb. 21, 1939.
Die casting machines. Madison-Kipp Corporation. 366,878; May 2; Serial No. 413,834; published Feb. 21, 1939.
Razor blades. Club Razor & Blade Manufacturing Corporation. 366,939; May 2.
Razors, safety-razor blades, scissors, etc. M. P. Gonzalez. 366,828; May 2; Serial No. 411,990; published Feb. 21, 1939.
Screw drivers, chucks, drills, and countersinks. North Bro's M'f'g Co. 366,892; May 2; Serial No. 413,954; published Feb. 21, 1939.
Tools, Hand operated. Union Fork & Hoe Company. 366,883; May 2; Serial No. 413,884; published Feb. 21, 1939.

CLASS 24

Ironing tables, Foldable. Brewer-Titchener Corporation. 366,932–3; May 2; Serial Nos. 414,391–2; published Feb. 21, 1939.

CLASS 26

Meter (using electric cell), Photographic exposure. International Radio Corporation. 366,848; May 2; Serial No. 413,045; published Feb. 21, 1939.
Odometer devices. Segal Safety Razor Corporation. 366,782; May 2; Serial No. 396,168; published Feb. 21, 1939.
Photographic enlarging and printing apparatus. International Radio Corporation. 366,847; May 2; Serial No. 413,044; published Feb. 21, 1939.
Photographic enlarging apparatus and printing apparatus. International Radio Corporation. 366,855; May 2; Serial No. 413,266; published Feb. 21, 1939.

CLASS 27

Clocks and parts and cases therefor. International Radio Corporation. 366,881; May 2; Serial No. 413,871; published Feb. 21, 1939.

CLASS 28

Hollow ware and tableware, Silver-plated. Middletown Silver Company. 126,040; renewed July 22, 1939.

CLASS 29

Brooms. Colorado Industrial Workshop for the Blind. 125,191; renewed Apr. 22, 1939.
Brooms. Joseph Lay Co. Inc. 366,930; May 2; Serial No. 414,354; published Feb. 21, 1939.
Brushes, Roller stippling. M. Welt. 366,924; May 2; Serial No. 414,284; published Feb. 21, 1939.
Tooth brushes. Goldsmith Bros. 366,909; May 2; Serial No. 414,109; published Feb. 21, 1939.

CLASS 31

Refrigerators and combined refrigerators and water heaters. Stator Corporation. 366,790; May 2; Serial No. 401,757; published Feb. 21, 1939.

CLASS 32

Articles of furniture. Chairs Incorporated. 366,976; May 2.
Blinds, Venetian. F. R. Hendricks. 366,993; May 2.
Cabinets, Metal filing. General Fireproofing Co. 366,936; May 2; Serial No. 414,695; published Feb. 21, 1939.
Slats, Venetian blind. G. B. Lewis Company. 366,920; May 2; Serial No. 414,230; published Feb. 21, 1939.

CLASS 34

Air conditioning devices. W. A. Brown. 367,000; May 2.
Heat treating, cooling and drying chambers, ovens, etc., Industrial. Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 366,805; May 2; Serial No. 409,389; published Feb. 21, 1939.
Heating and air conditioning units. Fitzgibbons Boiler Company. 366,985; May 2.
Heating units, burners, boilers, etc. General Motors Corporation. 366,845; May 2; Serial No. 412,809; published Feb. 21, 1939.
Lamps, Candle burning sanctuary. Candy & Company. 366,784; May 2; Serial No. 399,439; published Feb. 21, 1939.
Louvers, Ventilating. Autovent Fan & Blower Co. 366,879; May 2; Serial No. 413,850; published Feb. 21, 1939.
Reflectors. Chance Brothers and Co. Limited. 366,801; May 2; Serial No. 408,417; published Feb. 21, 1939.
Stokers, Mechanical. General Stokers, Inc. 366,826; May 2; Serial No. 411,952; published Feb. 21, 1939.
Stoves, heaters, water heaters, etc., Gas. Skelgas Company. 366,869; May 2; Serial No. 413,568; published Feb. 21, 1939.

CLASS 35

Tires, Resilient vehicle. Firestone Tire & Rubber Company. 366,937; May 2; Serial No. 414,730; published Feb. 21, 1939.

CLASS 37

Cards, Message. F. J. Irving. 366,789; May 2; Serial No. 401,532; published Feb. 21, 1939.
Paper, Blotting. R. Goff. 366,908; May 2; Serial No. 414,108; published Feb. 21, 1939.
Paper, Wrapping. Union Bag & Paper Corporation. 366,893; May 2; Serial No. 413,963; published Feb. 21, 1939.
Tablets, fillers, composition books, etc. Taylor Paper Company. 366,938; May 2; Serial No. 389,045; published Oct. 18, 1938.
Tissues, paper towels, paper napkins, etc., Facial. S. H. Kress and Company. 366,864; May 2; Serial No. 413,447; published Feb. 21, 1939.
Wrappers, Transparent composition. Sealtest, Inc. 366,874; May 2; Serial No. 413,685; published Feb. 21, 1939.

CLASS 39

Bandeaus, brassières, girdles, etc. Mold Form Brassiere, Inc. 366,972; May 2.
Belts. Richter & Phillips Company. 366,961; May 2.
Blouses and dresses. I. Geist. 366,996; May 2.
Boots and shoes. International Shoe Co. 366,984; May 2.
Brassières. Fay-Miss Brassiere Co. 366,956; May 2.
Clothing. Affiliated Clothiers, Inc. 367,001; May 2.
Clothing, Men's work. Butler Brothers. 366,992; May 2.
Coats, suits, dresses, etc. Bloomingdale Bros., Inc. 366,971; May 2.
Cravats. Wembley, Inc. 366,974; May 2.
Dresses. Carson Pirie Scott & Company. 366,954; May 2.
Dresses. Isaac Ginsberg & Bros. 366,951; May 2.
Dresses. Kearns Brothers, Inc. 366,955; May 2.
Dresses and dress ensembles. Paramount Dress Co. 366,953; May 2.
Dresses, blouses, and skirts. Burney Epstein, Inc. 366,964; May 2.
Dresses, blouses, skirts, etc., Knitted. J. Guttman & Bros., Inc. 366,997; May 2.
Dresses, wraps, jackets, etc. Neusteter Co. 366,988; May 2.
Garments, Outer. Cohen, Goldman & Co. Inc. 366,970; May 2.
Girdles, brassières, and pantie girdles. Imperial Manufacturing Co. 366,967; May 2.
Gloves. National Glove Company. 366,947; May 2.
Gloves, Rubber. Pioneer Rubber Company. 366,968; May 2.
Gloves, Rubber. Surety Rubber Company. 366,959; May 2.
Gloves, Women's and misses'. A. De Pinna Co. 366,963; May 2.
Hats. C. S. Brower. 366,982; May 2.
Hats and caps. St. Joseph Hat & Cap Company. 366,978; May 2.
Hats and hosiery, Men's. Jack Lord Hats, Inc. 366,973; May 2.
Hats, dresses, coats, etc. Bloomingdale Bros. 367,002; May 2.
Hats, Men's. L. Wald. 366,983; May 2.
Hats, Women's and misses'. W. P. Fortune, Inc. 366,994; May 2.
Hose, Men's and boys'. W. T. Grant Company. 366,981; May 2.
Hosiery. Best & Co. 366,977; May 2.
Hosiery. Interwoven Stocking Company. 366,962; May 2.
Hosiery. Terman Stores Corporation. 366,979; May 2.
Hosiery, Women's. Artcraft Silk Hosiery Mills, Inc. 366,950; May 2.
Knitwear, Boys'. Pauker Boyswear Corp. 366,986; May 2.
Neckties. Cluett, Peabody & Co. 366,991; May 2.

Neckties. W. Mayer. 366,987; May 2.
Pants, bibs, and bathing caps, Rubber baby. Selberling Latex Products Company. 366,948; May 2.
Shirts and collars, pajamas, etc. Broadstreet's, Inc. 366,952; May 2.
Shirts and pajamas, Men's outer. Levin, Harris, Smith, Inc. 366,998–9; May 2.
Shirts for men and boys, Outer. Marlboro Shirt Company. 366,980; May 2.
Shoes. Feitman & Curme Shoe Stores Company. 366,943–5; May 2.
Shoes, Ladies'. Saks and Company. 366,949; May 2.
Shoes, Men's. Commonwealth Shoe and Leather Company. 366,966; May 2.
Shoes, Women's and misses'. Saks & Company. 366,958; May 2.
Shoes, Women's and misses'. Saks & Company. 366,969; May 2.
Soles, Rubber. Panther-Panco Rubber Co. Inc. 366,940; May 2.
Sportswear. Fox-Knapp Corporation. 366,995; May 2.

CLASS 40

Laces, Shoe. International Braid Company. 366,960; May 2.
Needles, Sewing. Gotham Sales Company Inc. 366,946; May 2.

CLASS 42

Chintz drapery fabrics. Charles Bloom, Inc. 366,957; May 2.
Cloth in the piece, Window shade. Columbia Mills, Inc. 366,865; May 2; Serial No. 413,539; published Feb. 21, 1939.
Cloth in the piece, Camel hair. S. Stroock & Co. 366,914; May 2; Serial No. 414,168; published Feb. 21, 1939.
Cotton piece goods. Boott Mills. 126,514; renewed Sept. 16, 1939.
Cotton piece goods. Turner Halsey Export Corporation. 366,923; May 2; Serial No. 414,283; published Feb. 21, 1939.
Gingham, sheeting, sheets, etc., Zephyr. Riverside & Dan River Cotton Mills, Inc. 366,852; May 2; Serial No. 413,199; published Feb. 21, 1939.
Goods, Piece. Dorset Woolen Company. 367,003; May 2.
Piece goods. Arthur Beir & Co. Inc. 366,854; May 2; Serial No. 413,262; published Feb. 21, 1939.
Piece goods. J. Rosenholz Inc. 366,926; May 2; Serial No. 414,329; published Feb. 21, 1939.
Piece goods. Tabin-Picker & Company. 366,819–20; May 2; Serial Nos. 411,618–19; published Feb. 21, 1939.
Rayon piece goods. Tabin-Picker & Company. 366,821; May 2; Serial No. 411,621; published Feb. 21, 1939.
Rayon piece goods. Wool-Rat Products Corporation. 366,898; May 2; Serial No. 414,021; published Feb. 21, 1939.
Sheets and pillow cases. Marshall Field & Company. 366,894; May 2; Serial No. 413,987; published Feb. 21, 1939.

CLASS 44

Dental chairs. S. S. White Dental Manufacturing Company. 124,945; renewed Mar. 25, 1939.
Diaphragms and fitting rings, Antiseptic. C. B. Hagaman. 366,935; May 2; Serial No. 414,447; published Feb. 21, 1939.
Teeth, dentures, denture parts, etc., Porcelain. Austenal Laboratories, Inc. 366,880; May 2; Serial No. 413,852; published Feb. 21, 1939.
Trusses. R. A. Campbell. 366,838; May 2; Serial No. 412,627; published Feb. 21, 1939.
Vaginal diaphragms. F. E. Lawrence. 366,919; May 2; Serial No. 414,229; published Feb. 21, 1939.
X-ray apparatus and parts thereof and accessories therefor, fluoroscopes, etc. H. G. Fischer & Co. 366,875; May 2; Serial No. 413,777; published Feb. 21, 1939.

CLASS 45

Beverages, and syrups, extracts, and flavors used in making the same. Cloverdale Spring Company. 366,793; May 2; Serial No. 403,988; published Feb. 21, 1939.

CLASS 46

Baking powder. Francis H. Leggett & Company. 366,788; May 2; Serial No. 401,493; published Feb. 21, 1939.
Bread, rolls, buns, etc. C. C. Frantz. 366,787; May 2; Serial No. 401,303; published Feb. 21, 1939.
Canned fruits for salad. Calbear Canneries Co. 366,884; May 2; Serial No. 413,893; published Feb. 21, 1939.
Canned grapefruit. Safeway Stores, Inc. 366,895; May 2; Serial No. 414,003; published Feb. 21, 1939.
Canned grapefruit juice. Safeway Stores, Inc. 366,897; May 2; Serial No. 414,006; published Feb. 21, 1939.
Canned peas. Minnesota Valley Canning Company. 366,796; May 2; Serial No. 404,653; published Feb. 21, 1939.
Canned sardines and canned tuna fish. K. Hovden Co. 125,449–50; renewed May 20, 1939.
Canned sauce a-la-king. Kitchen Kraft Foods Corporation. 366,783; May 2; Serial No. 399,359; published Feb. 21, 1939.
Canned tomato juice. Safeway Stores, Inc. 366,896; May 2; Serial No. 414,005; published Feb. 21, 1939.
Cereals used as a binder in comminuted meat products, Blended, flavored. Glidden Company. 366,907; May 2; Serial No. 414,106; published Feb. 21, 1939.
Coffee and tea. James A. McAteer & Sons, Inc. 124,861; renewed Mar. 18, 1939.
Coffee, tea, cocoa, etc. G. L. Neff. 125,753; renewed June 10, 1939.
Confections. James', Inc. 366,781; May 2; Serial No. 395,949; published Feb. 21, 1939.
Feed. Thrift Milling Company. 366,902; May 2; Serial No. 414,047; published Feb. 21, 1939.
Feed for poultry and live stock. Silmo Chemical Corporation. 366,857; May 2; Serial No. 413,283; published Feb. 21, 1939.
Food, bird seed, tea, etc., Dog and cat. Graham Co. 366,824; May 2; Serial No. 411,690; published Feb. 21, 1939.
Food for animals. General Mills, Inc. 366,891; May 2; Serial No. 413,940; published Feb. 21, 1939.
Food product. American Soya Products Corporation. 366,829; May 2; Serial No. 412,081; published Feb. 21, 1939.
Fruits and juices, Citrus. Mutual Orange Distributors. 366,831; May 2; Serial No. 412,150; published Feb. 21, 1939.
Fruits, Citrus. Florida Citrus Exchange. 366,899; May 2; Serial No. 414,027; published Feb. 21, 1939.
Gum, Chewing. Topps Chewing Gum, Inc. 366,911; May 2; Serial No. 414,123; published Feb. 21, 1939.
Milk, Concentrated chocolate flavored. Windsor Evaporated Milk Co. 366,903; May 2; Serial No. 414,089; published Feb. 21, 1939.
Milk, Desiccated. Dry Milk Company. 126,147; renewed July 29, 1939.
Molasses and table-syrups. Penick & Ford, Ltd. 126,747; renewed Sept. 30, 1939.
Oranges, Fresh. Champion Orange Company. 366,778; May 2; Serial No. 392,084; published Oct. 4, 1938.
Popping-corn. American Pop Corn Company. 126,124; renewed July 29, 1939.
Poppingcorn. American Pop Corn Company. 125,925; renewed July 15, 1939.
Popping-corn. American Pop Corn Company. 125,927; renewed July 15, 1939.
Pork, Cured and smoked clear-plate. Kohrs Packing Company. 126,709; renewed Sept. 30, 1939.
Vegetables, Fresh. L. Terven. 366,886; May 2; Serial No. 413,918; published Feb. 21, 1939.

CLASS 47

Wines. Southland Wine Corporation. 366,810–11; May 2; Serial Nos. 410,665–8; published Feb. 21, 1939.
Wines. Southland Wine Corporation. 366,812; May 2; Serial No. 410,673; published Feb. 21, 1939.

CLASS 48

Beer. Frankenmuth Brewing Company. 366,890; May 2; Serial No. 413,935; published Feb. 21, 1939.
Beer, ale, porter, and stout. P. Ballantine & Sons. 366,888; May 2; Serial No. 413,926; published Feb. 21, 1939.

CLASS 49

Liqueur-cordial. House of McAteer, Inc. 366,916; May 2; Serial No. 414,191; published Feb. 21, 1939.
Whiskey, gin, rum, etc. Steinhardt Company. 366,942; May 2.

CLASS 50

Disseminators for perfumes, Porous. R. J. Moore. 366,941; May 2.
Leather, Artificial. Keratol Company. 126,600; renewed Sept. 23, 1939.
Traps, Mouse. W. L. Thada. 366,990; May 2.

LIST OF LABELS

Apple Aces. For Apples. F. P. Hart. 52,897; May 2.
Bach Shoe Co. Hollywood Styles. For Footwear. Frank C. Meyer Co. Inc. 52,931; May 2.
Barbara Jane. For Boxes. Hoague-Sprague Corporation. 52,910; May 2.
Best Circles. For Unsweetened Lemon Juice. California Consumers Corporation. 52,886; May 2.
"Black Leaf" Worm Powder. For a Scientifically Prepared Dry Compound of Nicotine That is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). Tobacco By-Products & Chemical Corporation Incorporated. 52,940–1; May 2.
Boots of Character. For Boxes. Hoague-Sprague Corporation. 52,903; May 2.

Bridges Dated Fresh Eggs. For Fresh Eggs. C. Bridges. 52,887; May 2.
Bruton Brewmaster Special Beer. For Beer. Bruton Brewing Company. 52,885; May 2.
Budapest Brand. For Ale. Tru-Blu Bottlers. 52,944; May 2.
Chief. For Rolled Oats. Purity Oats Company. 52,936; May 2.
Cinna butter. For a Mix of Sweet Cream Butter with Sugar and Cinnamon. Lockshore Farms, Inc. 52,913; May 2.
DA. For Footwear. Frank C. Meyer Co. Inc. 52,923; May 2.
Davidson's Magic Dandruff Cream. For a Dandruff Cream. A. Davidson. 52,889; May 2.
De Luxe. For Shoes. Frank C. Meyer Co. Inc. 52,922; May 2.
Dial. For Footwear. Frank C. Meyer Co. Inc. 52,929; May 2.
Dixie-Doodle. For Boxes. Hoague-Sprague Corporation. 52,898; May 2.
Dorothy May. For Footwear. Frank C. Meyer Co. Inc. 52,926; May 2.
Dugan's Coffee Cake. For Coffee Cake. Dugan Bros. of New Jersey Inc. 52,890; May 2.
Ensco. For Footwear. Frank C. Meyer Co. Inc. 52,927; May 2.
Fine Footwear. For Footwear. A. C. Clayton Printing Co. 52,888; May 2.
Gear Safety "28". For an All Purpose Lubricant for All Types of Automotive and Industrial Gear Units. Elco Grease and Oil Company. 52,892; May 2.
Giant Tiger—America's Greatest Super Markets. For Grape Soda. Giant Tiger Corporation. 52,895; May 2.
Giant Tiger—America's Largest Saving Centers. For Grape Soda. Giant Tiger Corporation. 52,894; May 2.
Gibbs Arch Builder. For Footwear. Frank C. Meyer Co. Inc. 52,925; May 2.
HB. For Boxes. Hoague-Sprague Corporation. 52,908; May 2.
Hollywood Styled. For Footwear. Frank C. Meyer Co. Inc. 52,928; May 2.
Hydro-Loc Brake Fluid. For Hydraulic Brake Fluid for use in all Types of Hydraulic Brakes. New Chemical Company. 52,934; May 2.
Knoe Kap. For Pinion-Nuts. H. Jenkins. 52,912; May 2.
La Conga. For Boxes. Hoague-Sprague Corporation. 52,907; May 2.
Lady Frances. For Footwear. Frank C. Meyer Co. Inc. 52,917; May 2.
Lustig's Co-Ed. For Footwear. Frank C. Meyer Co. Inc. 52,918; May 2.
M. J. Saks Shoe Corp. Tred-Mode. For Shoes. Frank C. Meyer Co. Inc. 52,921; May 2.
Marathon Beer. For Beer. Marathon City Brewing Company. 52,914; May 2.
Marco Polo. For Boxes. Hoague-Sprague Corporation. 52,911; May 2.
Markus Velveteen. For Face Cream. C. I. Markus. 52,915; May 2.
McHenry. For Pennsylvania Straight Rye Whiskey. Mid-Valley Distilling Corp. 52,933; May 2.
Melville Dairy Highest Quality Butter. For Butter. Melville Dairy. 52,916; May 2.
Mexican Huarache Sandals. For Boxes. Hoague-Sprague Corporation. 52,899; May 2.
Natural Cross Shoes. For Boxes. Hoague-Sprague Corporation. 52,906; May 2.
New York Custom Made. For Footwear. Frank C. Meyer Co. Inc. 52,924; May 2.
New York State White Wine No. 45. For New York State White Wine. Taylor Wine Company. 52,939; May 2.
New York World's Fair Bullet Camera. For Cameras. Eastman Kodak Company. 52,891; May 2.
Nico-Fume Liquid. For a Highly Refined Solution of "Free" Nicotine. Tobacco By-Products & Chemical Corporation Incorporated. 52,942; May 2.
Nico-Fume Tobacco-Paper Insecticide. For Tobacco-Paper Insecticide for Fumigating Greenhouses. Tobacco By-Products & Chemical Corporation Incorporated. 52,943; May 2.
Ovenmaster the Perfect Bread. For Bread. Pioneer Baking Company. 52,935; May 2.
Party. For Popcorn. J. Hamilton. 52,896; May 2.
Purity. For Rolled Oats. Purity Oats Company. 52,937; May 2.
Ric-O-Lac. For Castor Oil 50% Emulsified in an Aqueous Solution. Emulsified Products, Inc. 52,893; May 2.
Smart Footwear. For Footwear. Frank C. Meyer Co. Inc. 52,932; May 2.
Social-Lite. For Footwear. Frank C. Meyer Co. Inc. 52,920; May 2.
Sturdiline. For Cartons. Bird & Son, Inc. 52,884; May 2.
Sunrise Sandal of 1940. For Boxes. Hoague-Sprague Corporation. 52,900; May 2.
The Molly Stark. For Shoes. Frank C. Meyer Co. Inc. 52,919; May 2.
They See the Box First. For Boxes. Hoague-Sprague Corporation. 52,902; May 2.
They See the Box First. For Boxes. Hoague-Sprague Corporation. 52,904; May 2.
Tops. For Bathing Caps. Barr Rubber Products Company. 52,883; May 2.
Trail-Maker. For Boxes. Hoague-Sprague Corporation. 52,901; May 2.
Trianon. For Hand Creme. L. L. Roberts. 52,938; May 2.
Tri Point Shoes. For Boxes. Hoague-Sprague Corporation. 52,909; May 2.
Walk-O-Pedic Shoes. For Boxes. Hoague-Sprague Corporation. 52,905; May 2.
Youthful Mode. For Footwear. Frank C. Meyer Co. Inc. 52,930; May 2.

LIST OF PRINTS

America's Most Popular Gift Pen—By Far—Is the Famous Parker. For Fountain Pens, Mechanical Pencils and Ink. Parker Pen Company. 17,373; May 2.
Captured Flavor. For Wines. Taylor Wine Company. 17,376; May 2.
Double Electric Life Comes Out. For Batteries. C. A. Paulson. 17,374; May 2.
Genuine Fiesta Ensemble. For Colored Dinnerware, Glassware, and Cutlery. Homer Laughlin China Co. 17,372; May 2.
Kills Roaches and Many Other Household Pests. For Roach Powder, Ant Syrup and Rat Bait. H. Hamburger. 17,371; May 2.
Like Quiz Games? 'Cereal and Fruit' (Mailing Card). For Cereal. L. M. Skinner. 17,375; May 2.
Look for the Sign of the Cosden Traffic Cop. For Gasoline and Motor Oil. Cosden Petroleum Corporation. 17,369; May 2.
Lovelier Lines for Every Figure. For Brassières. Fay-Miss Brassiere Co. 17,370; May 2.
On Your Way to the N. Y. World's Fair. For Wines. Taylor Wine Company. 17,377; May 2.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)

Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Dispensing device for sheet rubber deposited from an aqueous dispersion of rubber and forming and using same. Re. 21,065; May 2.

Dixie-Vortex Company. (See Wessman, E. G., and Stone, assignors.)

General Motors Corporation. (See Kindl, Carl H., assignor.)

Hartmann, Max, Riehen, near Basel, and A. Wettstein, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Purifying hormones. Re. 21,064; May 2.

Huff, Lyman C., Dayton, Ohio, assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. Re. 21,066; May 2.

Kindl, Carl H., Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Shock absorber. Re. 21,067; May 2.

Miller, Frank P., Meadville, Pa. Rotary cutter. Re. 21,068; May 2.

Pellegrini, Dominick, New York, N. Y. Denture cleaning device. Re. 21,069; May 2.

Raffles, Frank, Chicago, Ill. Heating element. Re. 21,070; May 2.

Society of Chemical Industry in Basle. (See Hartmann, M., and Wettstein, assignors.)

Sperry Gyroscope Company. (See Sperry, Lawrence B.)

Sperry, Lawrence B., deceased, Garden City, by Sperry Gyroscope Company, Inc., mesne assignee, Brooklyn, N. Y. Automatic pilot for aircraft. Re. 21,071; May 2.

Stone, Henry A. (See Wessman, E. G., and Stone.)

Tropsch, Hans, deceased, by C. W. von Helmolt, administrator de bonis non, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. Re. 21,073; May 2.

Universal Oil Products Company. (See Huff, Lyman C., assignor.)

Universal Oil Products Company. (See Tropsch, Hans, assignor.)

Von Helmolt, Carl W., administrator. (See. Tropsch, Hans.)

Wessman, Edwin G., Easton, Pa., and H. A. Stone, Mays Landing, N. J., assignors by mesne assignments, to Dixie-Vortex Company, Chicago, Ill. Paper-cup-making machine. Re. 21,072; May 2.

Wettstein, Albert. (See Hartmann, M., and Wettstein.)

LIST OF DESIGN PATENTEES

Advance Aluminum Castings Corp. (See Grundstrom, Erik G., assignor.)

Alper, Abraham, New York, N. Y. Coat. 114,525; May 2.

Andre-Anl, Clement, St. Louis, Mo. Dress ensemble. 114,581; May 2.

Autopoint Company. (See Dell, F. C., Petau, and Tammen, assignors.)

Autopoint Company. (See Tammen, Glenn W., assignor.)

Berman, Louis J., Brooklyn, N. Y. Over-the-shoulder handbag. 114,608; May 2.

Beshore, Paul S., Kearney, Nebr. Juvenile vehicle. 114,526; May 2.

Boden, Cecil W., Oakland, Calif. Caster. 114,527; May 2.

Bousman, Samuel I., assignor to Colorado Iron Works Company, Denver, Colo. Pivotal drive unit for conveyers or the like. 114,575; May 2.

Burd, Samuel I., Philadelphia, Pa. Stocking. 114,609; May 2.

Burgess, Richard H., San Antonio, Tex. Tire. 114,528; May 2.

Byrnes, Phyllis, New York, N. Y. Dress and slip ensemble. 114,627; May 2.

Caine, Robert, New York, N. Y. Dress. 114,610; May 2.

Celluloid Corporation. (See North, Mary A., assignor.)

Chalk, Benjamin, New York, N. Y. Coat. 114,611; May 2.

Chalk, Benjamin, New York, N. Y. Coat. 114,612; May 2.

Cincinnati Time Recorder Company, The. (See Hand, Thomas L., assignor.)

Coleman, Samuel R. (See Vise, Boyce M., assignor.)

Colorado Iron Works Company. (See Bousman, Samuel I., assignor.)

Cooper, David, Brooklyn, N. Y. Clip or similar article. 114,613; May 2.

Degnon, Julia S., New York, N. Y. Hat. 114,614; May 2.

Dell, Frank C., E. Petau, and G. W. Tammen, assignors to Autopoint Company, Chicago, Ill. Pencil. 114,529; May 2.

Dell, Frank C., E. Petau, and G. W. Tammen, assignors to Autopoint Company, Chicago, Ill. Pencil, 114,530; May 2.

De Vilbiss Company, The. (See Vuillemenot, Frederic A., assignor.)

De Vilbiss Company, The. (See Roselund, Harold A., assignor.)

Emmerich, Theresa, New York, N. Y. Textile fabric. 114,615; May 2.

Engel, Alice, New York, N. Y. Dress. 114,582; May 2.

Engel, Alice, New York, N. Y. Dress. 114,583; May 2.

Engstrom, Everett E., White Plains, assignor to McKeesport Tin Plate Corporation, New York, N. Y. Lithographed sheet metal for metal containers. 114,532; May 2.

Engstrom, Everett E., White Plains, assignor to McKeesport Tin Plate Corporation, New York, N. Y. Lithographed sheet metal for metal containers. 114,531; May 2.

Excel Auto Radiator Company. (See Sperry, Philmore F., assignor.)

Feintuck, Rose, New York, N. Y. Dress. 114,584; May 2.

Florig, Frederick F., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa. Grave marker. 114,576; May 2.

Fry, Justus W., Renton, Wash. Airship. 114,533; May 2.

Fuld, William A., Baltimore, Md. Game board. 114,534; May 2.

Fullerton, Incorporated. (See Fullerton, Robert H., assignor.)

Fullerton, Robert H., assignor to Fullerton, Incorporated, St. Paul, Minn. Portable photocopying machine. 114,585; May 2.

Gottlieb, Joseph, Jersey City, N. J. Electric clock. 114,577; May 2.

Government of United States of America, as represented by Secretary of War and his successors in office. (See Taylor, J. G., Wilson, and Swanson, assignors.)

Green, Eliot D., San Francisco, Calif. Ridge cutter for engine cylinders. 114,586; May 2.

Gruensfelder, Rose, St. Louis, Mo. Shoe. 114,587; May 2.

Grundstrom, Erik G., assignor to Advance Aluminum Castings Corp., Chicago, Ill. Saucepan or similar article. 114,535; May 2.

Hacmac, Edward R., Hollywood, Calif., assignor to Na-Mac Products Company. Combined dispenser and closure for a container. 114,536; May 2.

Hand, Thomas L., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Combined carirage and spacer guide for meat slicing machines. 114,588; May 2.

Harris, Herbert M., New York, N. Y. Dress. 114,616; May 2.

Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

Hobbs, Laurence G., assignor to United States Travelware Corporation, Fitchburg, Mass. Display basket. 114,537; May 2.

Hoegger, Walter, New York, N. Y. Textile fabric. 114,617; May 2.

Hoegger, Walter, New York, N. Y. Textile fabric. 114,618; May 2.

Hoegger, Walter, New York, N. Y. Textile fabric. 114,619; May 2.

Hoegger, Walter, New York, N. Y. Textile fabric. 114,620; May 2.

Hoegger, Walter, New York, N. Y. Textile fabric. 114,621; May 2.

Hoegger, Walter, New York, N. Y. Textile fabric. 114,622; May 2.

Hohs, Earnest F. G., Renfrew, Ontario, Canada. Combination refrigerator and cooking range. 114,538; May 2.

Horton, George T., Chicago, Ill. Elevated tank. 114,539; May 2.

Horton, George T., Chicago, Ill. Elevated tank. 114,540; May 2.

Hulsh, Benjamin M. (See Rosen, S., and Hulsh.)

Jacobson, Leo, New York, N. Y. Dress ensemble. 114,589; May 2.
Jacobson, Leo, New York, N. Y. Dress ensemble. 114,590; May 2.
Kanowitz, Charles, New York, N. Y. Coat or similar article. 114,623; May 2.
Kashine, Louis L., New York, N. Y. Dress ensemble. 114,591; May 2.
Keene, Otis E., New York, N. Y. Deck of playing cards. 114,578; May 2.
King, Thomas F., New Orleans, La. Automotive vehicle. 114,579; May 2.
Kirsch Company. (See Stratton, Philip B., assignor.)
Krupka, Samuel G., assignor to Ostermoor & Company, Inc., Bridgeport, Conn. Textile fabric. 114,592; May 2.
Lampl, Walter, New York, N. Y. Charm. 114,541; May 2.
Lampl, Walter, New York, N. Y. Charm. 114,542; May 2.
Leathers, Ward, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y. Suction cleaner. 114,593; May 2.
Leff, Morris, Brooklyn, N. Y. Embroidered textile fabric or similar article. 114,594; May 2.
Lentini, Helen, New York, N. Y. Dress ensemble. 114,595; May 2.
Levy, Aaron, New York, N. Y. Textile fabric. 114,596; May 2.
Lewis, Bennett, New York, N. Y. Game piece. 114,543; May 2.
Lewis, Bennett, New York, N. Y. Game piece. 114,544; May 2.
Lewis, Bennett, New York, N. Y. Game piece. 114,545; May 2.
Lewis, Bennett, New York, N. Y. Game piece. 114,546; May 2.
Lewis, Bennett, New York, N. Y. Game piece. 114,547; May 2.
Libbey Glass Company. (See Viatour, Jean, assignor.)
Linney, Albert T., Lexington, Ky. Toy gun. 114,548; May 2.
Matthews, Jas. H., & Company. (See Florig, Frederick F., assignor.)
McKeesport Tin Plate Corporation. (See Engstrom, Everett E., assignor.)
Montgomery Ward & Co. (See Swainson, Anne, assignor.)
Moore, Sidney A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Distribution box for electric fence installations. 114,549; May 2.
Moore, Walter B., West Lafayette, Ohio. Combined coffee maker and teapot or similar article. 114,550; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Coaster. 114,551; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Bicycle frame. 114,552; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Bicycle frame. 114,553; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Combined bicycle frame and container. 114,554; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Container to be mounted on a bicycle. 114,555; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Combined faucet and spray fixture for sinks. 114,556; May 2.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Outboard motor for boats. 114,597; May 2.
Myers, Roy A., St. Paul, Minn. Disinfector. 114,598; May 2.
Na-Mac Products Company. (See Hacmac, Edward R., assignor.)
Nitardy, Ferdinand W., Brooklyn, assignor to E. R. Squibb & Sons, New York, N. Y. Bottle. 114,557; May 2.
North, Mary A., New York, N. Y., assignor to Celluloid Corporation. Combination comb holder and brush. 114,558; May 2.
Onondaga Pottery Company. (See Wigley, John T., assignor.)
Ostermoor & Company. (See Krupka, Samuel G., assignor.)
Petau, Erik. (See Dell, F. C. Petau, and Tammen.)
Pinska, Flora M., Oakland, Calif. Guide for an electric iron cord. 114,559; May 2.
Presser, Harry, New York, N. Y. Dress ensemble. 114,599; May 2.
Presser, Harry, New York, N. Y. Dress ensemble. 114,600; May 2.
Prime Manufacturing Company, The. (See Moore, Sidney A., assignor.)
Quadrex Corporation. (See Leathers, Ward, assignor.)
Roselund, Harold A., assignor to The De Vilbiss Company, Toledo, Ohio. Spray gun. 114,560; May 2.
Rosen, Samuel, and B. M. Hulsh, Chicago, Ill. Rug cleaning device or similar article. 114,601; May 2.
Rosenthal, Samuel W., New York, N. Y. Reading lamp. 114,624; May 2.
Rothenberg, Charles, New York, N. Y. Hat. 114,625; May 2.
Russell, Linus E., Springfield, Ohio. Pneumatic pump housing. 114,561; May 2.
Rusting, Frank J., Oakland, Calif. Condiment shaker. 114,562; May 2.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Shapiro, Murray J., New York, N. Y. Wedding gown. 114,602; May 2.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Character bearing holder for necktie holders or the like. 114,580; May 2.
Sperry, Philmore F., assignor to Excel Auto Radiator Company, Chicago, Ill. Moving picture camera. 114,603; May 2.
Squibb, E. R. & Sons. (See Nitardy, Ferdinand W., assignor.)
Stetson Shoe Company, The. (See Wales, Burton L., assignor.)
Stoll, Charles, New York, N. Y. Sofa or similar article. 114,563; May 2.
Stone, Mollie, New York, N. Y. Dress. 114,604; May 2.
Stratton, Philip B., assignor to Kirsch Company, Sturgis, Mich. Curtain rod. 114,564; May 2.
Swainson, Anne, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Radio cabinet. 114,565; May 2.
Swanson, Oscar A. (See Taylor, J. G., Wilson, and Swanson.)
Tammen, Glenn W. (See Dell, F. C., Petau, and Tammen.)
Tammen, Glenn W., assignor to Autopoint Company, Chicago, Ill. Thermoplastic tube or similar article. 114,566; May 2.
Tammen, Glenn W., assignor to Autopoint Company, Chicago, Ill. Thermoplastic tube or similar article. 114,567; May 2.
Taylor, James G., Dayton, R. C. Wilson, Fairfield, and O. A. Swanson, Dayton, Ohio, assignors to Government of United States of America, as represented by Secretary of War, and his successors in office. High wing cantilever monoplane. 114,626; May 2.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 114,605; May 2.
United States Travelware Corporation. (See Hobbs, Laurence G., assignor.)
Viatour, Jean, Soignies, Belgium, assignor to Libbey Glass Company, Toledo, Ohio. Tumbler. 114,568; May 2.
Vise, Boyce M., assignor of one-half to S. R. Coleman, Columbia, S. C. Bottle dispensing refrigerator or the like. 114,569; May 2.
Vuillemenot, Frederic A., assignor to The De Vilbiss Company, Toledo, Ohio. Perfume atomizer. 114,570; May 2.
Vuillemenot, Frederic A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. 114,571; May 2.
Wales, Burton L., Abington, assignor to The Stetson Shoe Company, Incorporated, Weymouth, Mass. Shoe. 114,606; May 2.
Watling, Burns S., assignor to Watling Scale Company, Chicago, Ill. Scale. 114,572; May 2.
Watling Scale Company. (See Watling, Burns S., assignor.)
Wigley, John T., assignor to Onondaga Pottery Company, Syracuse, N. Y. Plate or similar article. 114,573; May 2.
Wilson, Roscoe C. (See Taylor, J. G., Wilson, and Swanson.)
Windwer, Sam, New York, N. Y. Dress. 114,607; May 2.
Young, Leonard P., Chester, Conn. Soldering iron stand. 114,574; May 2.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories. (See Raiziss, G. W., and Clemence, assignors.)
Abramovic, Dr. Josip. (See Vajda, Franjo, assignor.)
Adams, William S., Philadelphia, Pa. Metallic packing for pistons. 2,156,796; May 2.
Adler, Benjamin H., Chicago, Ill. Changeable sign and letters therefor. 2,156,257; May 2.
Agens, Maynard C., Schenectady, N. Y., assignor to General Electric Company. Synthetic rubberlike compositions. 2,156,956; May 2.
Agfa Ansco Corporation. (See Schneider, Wilhelm, assignor.)
Air-Way Electric Appliance Corporation. (See Dow, Dewey M., assignor.)
Alcorn, Lester G., West Union, Iowa. Attachment for typewriters. 2,156,829; May 2.
Alden, Carroll R., Detroit, Mich., assignor to Ex-Cell-O Corporation. Metering pump. 2,156,933; May 2.
Allen, Albert J., Brooklyn, N. Y., assignor to Metropolitan Device Corporation. Meter cabinet. 2,156,672; May 2.
Allen, Wallace T. (See Jackson, J. G., and Allen.)
Allgemeine Elektricitats Gesellschaft. (See Daene, Herbert, assignor.)
Aluminum Company of America. (See Hill, Thomas N., assignor.)
American Binder Company. (See Mandel, Jacob, assignor.)
American Blower Corporation. (See Durrell, Ernest L., assignor.)
American Bosch Corporation. (See Coe, Frank S., assignor.)
American Bosch Corporation. (See Curtis, L. F., and Coe, assignors.)
American Bosch Corporation. (See Long, Herbert J., assignor.)
American Character Doll Co. (See Schaeffer, Edward G., assignor.)
American Cyanamid Company. (See Ham, Garnet P., assignor.)
American Engineering Company. (See Harrison, Clifford E., assignor.)
American Engineering Company. (See Sibbe, Carl F., assignor.)
American Engineering Company. (See Watson, T. G. W., and Ferguson, assignors.)
American Flange & Manufacturing Co. (See Melrath, Earl G., assignor.)
American Hardware & Importing Co., et al. (See Waller, John A., assignor.)
American Houses, Inc. (See McLaughlin, Robert W., Jr., assignor.)
American Instrument Company. (See Reynolds, William H., assignor.)
American Machine & Foundry Company. (See Plass, Robert H., assignor.)
American Monorail Company, The. (See Miller, Bemis E., assignor.)
American Radiator Company. (See Timmis, W. W., and Walker, assignors.)
American Seal-Kap Corporation of Delaware. (See Clark, Kempton, assignor.)
American Seal-Kap Corporation of Delaware. (See Dorsch, William C., assignor.)
American Seal-Kap Corporation of Delaware. (See Field, S. B., and Walter, assignors.)
American Seal-Kap Corporation of Delaware. (See Goodwin, C. W., and Daniels, assignors.)
Anaconda Wire & Cable Company. (See Rogers, Paul M., assignor.)
Andersen, Anton, Copenhagen, Denmark. Preheater for liquid fuel burners for heating or lighting apparatus. 2,156,578; May 2.
Andersen, Christian S., assignor to Pennsylvania Furnace & Iron Co., Warren, Ohio. Furnace control mechanism. 2,156,830; May 2.
Anderson, Adolph G., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon, Mich. Apparatus for producing cylinder sleeves. 2,156,521; May 2.
Anderson, George, Hammond, Ind., and R. S. Olsen, Chicago, Ill., assignors to International Smelting & Refining Company, New York, N. Y. Metal vaporizing furnace. 2,156,420; May 2.
Anderson Products, Incorporated. (See Parks, Joseph A., Jr., assignor.)
Andre, Jim, Detroit, Mich. Striking bag. 2,156,831; May 2.
Appleby, James P., assignor to Federal Cartridge Corporation, Anoka, Minn. Air gun. 2,156,797; May 2.
Armour and Company. (See Wyatt, B. L., and Thompson, assignors.)
Armstrong-Bray & Co. (See Bray, Albright, assignor.)
Ashida, Haruyuki. (See Kusaka, K., and Ashida.)
Associated Electric Laboratories, Inc. (See Dekker, Jan M. D., assignor.)
Atlantic Coast Fisheries Company, The. (See Guyman, Clarence L., assignor.)
Atlas Mineral Products Company, The. (See Payne, C. R., and Wirtz, assignors.)
Atwood, Morgan C., New Orleans, La. Bottle cap. 2,156,258; May 2.
Aurex Corporation. (See Huth, W. H., and Cubert, assignors.)
Austria, Guillermo, Los Angeles, Calif. Shredder. 2,156,421; May 2.
Autoyre Company, The. (See Sanford, Roy S., assignor.)
Aydelott, John C., Erie, Pa., assignor to General Electric Company. Power unit. 2,156,957; May 2.
Aydelott, John C., Erie, Pa., assignor to General Electric Company. Dynamo-electric machine. 2,156,958; May 2.
Ayers, Clarence W., Los Angeles, Calif. Ice cutting apparatus. 2,156,832; May 2.
Ayers Limited. (See Milnes, Tom, assignor.)
Baader, Otto, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for carrying out reactions with wire gauze catalysts. 2,156,422; May 2.
Babcock, Earl, Evanston, Ill., assignor to The Hoover Company, North Canton, Ohio. Absorber for refrigerating systems. 2,156,908; May 2.
Babcock & Wilcox Company, The. (See Shipman, William H., assignor.)
Bachmann, Walter H., Athol, Mass. Compression brake system. 2,156,560; May 2.
Baer, Alfred, Berlin-Schmargendorf, Germany. Seal for rotary valves of internal combustion engines. 2,156,960; May 2.
Bailey, John O., Los Angeles, Calif. Gas heater. 2,156,423; May 2.
Bakelite Building Products Co. (See Brady, Thomas, assignor.)
Bakelite Building Products Co. Inc. (See Harshberger, Norman P., assignor.)
Bakelite Building Products Co. (See Schuh, Charles, assignor.)
Bakelite Building Products Co. (See Schuh, Charles H., assignor.)
Baker, Erwin G., Indianapolis, Ind. Rotary valve engine. 2,156,749; May 2.
Baker, Leonard, Hillsdale, N. J., and G. A. Martin and L. C. Williams, Pearl River, assignors to Dexter Folder Company, New York, N. Y. Sheet feeder. 2,156,648; May 2.
Baldwin-Southwark Corporation. (See Heller, Henry C., assignor.)
Baldwin-Southwark Corporation. (See Zwickl, Joseph R., assignor.)
Bangs, Ralph C., Providence, R. I., assignor to L. K. Stupell. Ornament retaining construction. 2,156,833; May 2.
Bangser, William, New York, N. Y., assignor to H. Maimin Company, Incorporated. Cloth-cutting machine. 2,156,798; May 2.
Barbieri, Cesare, New York, N. Y., assignor to Dixie-Vortex Company, Chicago, Ill. Confectionery wrapper and method of packaging confectioneries. 2,156,328; May 2.
Barmer Maschinenfabrik Aktiengesellschaft. (See Bochmann, Otto, assignor.)
Barnard, Samuel G., Seattle, Wash. Self-loading truck. 2,156,424; May 2.
Baron, Arthur S., et al. (See Vendope, Van L., assignor.)
Barrett, Edward L., La Grange, assignor to Utah Radio Products Company, Chicago, Ill. Vibrator. 2,156,487; May 2.
Barrett, Edwin W., Barrington, and P. Hargreaves, assignors to Warren Textile and Machinery Supply Co., Warren, R. I. Filling feeler for looms. 2,156,900; May 2.
Barrett, Elliott P., Pittsburgh, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for manufacturing electric cables. 2,156,934; May 2.
Barry, Arthur J. (See Peterson, F. C., and Barry.)
Barry-Wehmiller Machinery Company. (See Herold, James L., assignor.)
Barth, Frederic H. (See Rittenhouse, Henry J., assignor.)

Bartoe, Willard F., Hulmeville, assignor to Röhm & Haas Company, Philadelphia, Pa. Treating cast polymeric resin sheets. 2,157,049; May 2.

Barton, William A., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 2,156,368; May 2.

Basquin, Olin H., Evanston, assignor to Streeter-Amet Company, Chicago, Ill. Contact strip. 2,156,715; May 2.

Baxter, Burke M., Detroit, Mich. Paper making apparatus. 2,156,445; May 2.

Bay, Zoltan, assignor to Egyesült Izzólámpa és Villamossagi r. t., Ujpest, Hungary. High pressure arc lamp. 2,156,369; May 2.

Bayon, Fred J., Holyoke, Mass. Cell bar. 2,156,579; May 2.

Bechman, William O. (See Johnston, E. A., Rogers, and Bechman.)

Beck, Harry B., assignor to William E. Hooper & Sons Company, Baltimore, Md. Oil filter and cartridge. 2,156,329; May 2.

Beck, William J., Yonkers, N. Y. Automatic filling machine. 2,156,271; May 2.

Beckwith, Earl A., Ludlowville, N. Y. Corn grader. 2,156,716; May 2.

Bedford, Barnice D., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuits. 2,156,959; May 2.

Bee-Ko Company. (See Witherspoon, David J., assignor.)

Bell, Charles W., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,156,673; May 2.

Bell, Robert A., Montclair, assignor to The Rajah Company, Bloomfield, N. J. Coupling device. 2,156,272; May 2.

Bell Telephone Laboratories, Incorporated. (See Doba, Stephen, Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Evans, W. A., and Werring, assignors.)

Bell Telephone Laboratories, Incorporated. (See Knowlton, Clarence S., assignor.)

Be Ment, Harold C. (See Schon, M., and Be Ment.)

Bendel, Hermann, and A. Schmid, Berlin, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Amplifying detector. 2,156,649; May 2.

Bendix Aviation Corporation. (See Martin, Thomas B., assignor.)

Bendix Products Corporation. (See Hopkins, Charles L., assignor.)

Bendix Products Corporation. (See Price, Harold W., assignor.)

Bendix Radio Corporation. (See Hyland, Lawrence A., assignor.)

Bendure, Leslie D., Seattle, Wash. Superfluous hair remover. 2,156,717; May 2.

Benedict, Rome R., assignor of one-half to A. J. Corley, Jr., Chattanooga, Tenn. Fireplace closure. 2,156,799; May 2.

Benjamin Electric Mfg. Company. (See Niemann, George F., assignor.)

Bent, Franklin A., R. W. Millar, and S. N. Wik, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Polymerization of olefins. 2,156,718; May 2.

Berger, Arthur F., assignor to The Master Electric Company, Dayton, Ohio. Lubricant seal. 2,156,719; May 2.

Berry, Roy, Olney, Ill. Attachment assembly for liquid coolers. 2,156,834; May 2.

Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,156,580; May 2.

Bethlehem Steel Company. (See Rozmarich, Alois, assignor.)

Betz, William G., Bronx, N. Y. Piano action. 2,156,961; May 2.

Betz, William G., Bronx, N. Y. Piano action. 2,156,962; May 2.

Betz, William G., La Porte, Ind. Piano action. 2,156,963; May 2.

Biddle, Oscar H., Solon, Ohio. Insulating sash. 2,156,964; May 2.

Biddle, William C. (See Corbin, Elbert A., Jr., assignor.)

Bilger, Henry W., and K. T. Kessel, assignors to The Cuno Engineering Corporation, Meriden, Conn. Igniter coil manufacture. 2,157,050; May 2.

Birdseye, Clarence, Gloucester, Mass., assignor to Birdseye Electric Company. Electric lamp. 2,157,051; May 2.

Birdseye Electric Company. (See Birdseye, Clarence, assignor.)

Bishop, William H., Birmingham, England. Sliding roof for vehicles. 2,156,615; May 2.

Black & Decker Manufacturing Company, The. (See Whitney, Kenneth E., assignor.)

Blackhawk Mfg. Co. (See Pfauser, Edward M., assignor.)

Blair, Charles M. (See Carruthers, T. F., and Blair.)

Blau, Ludwig W., Houston, Tex., assignor to Standard Oil Development Company. Seismic-electric prospecting by means of continued waves. 2,156,259; May 2.

Bletcher, Ralph E. (See Bucknell, E. H., and Bletcher.)

Bloch, Julius. (See Rafael, Fritz, assignor.)

Blomquist, Sven G. F. (See Vigren, S. D., and Blomquist.)

Bochmann, Otto, Remscheid-Lennep, assignor to Barmer Maschinenfabrik Aktiengesellschaft, Wuppertal-Barmen, Germany. Double twist twisting spindle. 2,156,330; May 2.

Bode, Harold E., Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Manufacture of dextrine in a heated liquid medium. 2,156,488; May 2.

Böhler, Gebr., & Co. Aktiengesellschaft Wien. (See Leitner, Franz, assignor.)

Böhler, Gebr., & Co. Aktiengesellschaft Wien. (See Rapatz, Franz, assignor.)

Bohn Aluminum & Brass Corporation. (See McCullough, William E., assignor.)

Boldens Gruvaktiebolag. (See Lindblad, A. R., and Palén, assignors.)

Bolton, Archer L., North Andover, assignor to John W. Bolton & Sons, Inc., Lawrence, Mass. Separating member for Jordan engines. 2,156,835; May 2.

Bolton, John W., & Sons, Inc. (See Bolton, Archer L., assignor.)

Boltz, Alfred H., Valrico, Fla. Pitcher's box. 2,156,469; May 2.

Bonetti, Dante, Highwood, Ill. Portable music stand. 2,156,489; May 2.

Booker, Clyde A., Lexington, and A. E. Hill, Fitchburg, Mass. Double cross-arm brace. 2,156,447; May 2.

Booker, Clyde A., Lexington, and A. E. Hill, Fitchburg, Mass. Cross-arm brace. 2,156,448; May 2.

Borden, Stephen W., Summit, N. J. Ground fitting. 2,156,965; May 2.

Borg-Warner Corporation. (See Haigh, Vaughn, assignor.)

Boutwell, Clarence E., Birmingham, Ala. Matrix forming and bearer for the same. 2,156,836; May 2.

Bouvet, René, Hazleton, Pa., and J. Haesler, Teaneck, N. J., assignors to Duplan Silk Corporation, New York, N. Y. Yarn and fabric construction. 2,156,935; May 2.

Bowman, Emory N., Rochester, Minn. Removable colostomy pocket and retaining belt. 2,156,425; May 2.

Bowmer, Amos V., San Francisco, Calif. Booster embalming tube. 2,156,522; May 2.

Boyer, Lester C., Toledo, Ohio. Handling strips of extruded material. 2,156,909; May 2.

Bozarth, Abe R., Cleveland, assignor to The Harshaw Chemical Company, Elyria, Ohio. Manufacture of ammonium hydrogen fluoride. 2,156,273; May 2.

Bradbury, Thomas H., Birmingham, assignor to Phillips Telescopic Tops Limited, London, England. Closure element for canisters and like vessels. 2,156,837; May 2.

Brady, Thomas, Bloomfield, N. J., assignor to Bakelite Building Products Co., Inc., New York, N. Y. Method and apparatus for feeding and distributing sludgy materials. 2,156,901; May 2.

Bray, Albright, River Forest, assignor to Armstrong-Bray & Co., Chicago, Ill. Belt hook holder and mounting hooks thereon. 2,156,966; May 2.

Breeze Corporations, Inc. (See Mascuch, J. H., and Gorshkoff, assignors.)

Brennecke, Walter. (See Kleine, J., and Brennecke.)

Brooks, E. J., Company. (See Brooks, Winfred M., assignor.)

Brooks, Morris, Newark, N. J. Musical instrument carrying case. 2,156,910; May 2.

Brooks, Winfred M., West Orange, assignor to E. J. Brooks Company, Newark, N. J. Shackle seal. 2,156,616; May 2.

Brosius, Edgar E., Pittsburgh, Pa. Valve. 2,156,967; May 2.

Brown, Bennie S., and W. O. Wood, Greenwood, S. C. Filling detecting mechanism for looms. 2,156,838; May 2.

Brown, Carl A., Chardon, and F. B. Van Sickle, Lyndhurst, Ohio, assignors to General Electric Company. Apparatus for drawing and severing glass rods or tubing. 2,157,067; May 2.

Brown, Fred J., Egg Harbor City, N. J. Detachable bail for baskets or hampers. 2,156,274; May 2.

Brown Instrument Company, The. (See Ullman, Roy, assignor.)

Brown, Leo H., New York, N. Y. Microscope. 2,156,911; May 2.

Brown, Lloyd, and G. B. Shaffer, Des Moines, Iowa. Equalizing low pressure refrigerating systems. 2,156,426; May 2.

Brown, Louis N., Memphis, Tenn. Record card. 2,157,052; May 2.

Brownfield, Charles O., Covington, Ky. Cleaning apparatus. 2,156,370; May 2.

Brun, Oscar C., Copenhagen, Denmark. Meter for heat consumption. 2,156,968; May 2.

Bryant Electric Company, The. (See Johnson, George A., assignor.)

Bryce, James W., Bloomfield, N. J., assignor to International Business Machines Corporation, New York, N. Y. Tabulating machine. 2,156,969; May 2.

Bucknell, Ernest H., and R. E. Bletcher, Los Angeles, Calif. Shower head. 2,156,800; May 2.

Buffalo Pressed Steel Company. (See Starkweather, G. C., and Haas, assignors.)

Buffalow, Oscar T., Chattanooga, Tenn. Applicator for vibratory massagers. 2,156,839; May 2.

Bugatti, Jean, Molsheim, France. Distribution mechanism for machines of the piston type and especially steam engines. 2,156,470; May 2.

Bullard, Edwin F. (See Evans, T. W., and Bullard.)

Bundy Tubing Company. (See Knox, David R., assignor.)

Burdick, Richard, et al. (See Vendope, Van L., assignor.)

Burns, Alfred P., assignor to The Heald Machine Company, Worcester, Mass. Grinding machine. 2,156,970; May 2.

Buschmann, Eugen, Chemnitz, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Akt.-Ges., Siegmar-Schonau, Germany. Line spacing mechanism. 2,156,371; May 2.

Bush, A. G. (See Criner, Harry J., assignor.)

Butenandt, Adolf, Danzig-Langfuhr, Free City of Danzig, and F. Hildebrandt, Hohen Neuendorf, near Berlin, Germany, assignors to Schering Aktiengesellschaft. Pregnanolones and producing the same from 3-hydroxy bisnorcholanic acids. 2,156,275; May 2.

Buttner-Werke Aktiengesellschaft. (See Schneider, Ernst, assignor.)

Buxton & Skinner Printing & Stationery Company. (See Hermann, Otto L., assignor.)

Byrkit, Gordon D. (See Lincoln, B. H., and Byrkit.)

Calcott, William S., Woodstown, N. J., A. S. Carter, Wilmington, Del., and F. B. Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of hexene from divinylacetylene. 2,156,936; May 2.

Caldwell, Frank W., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Releasable propeller drive. 2,156,750; May 2.

Caldwell, Stuart H. (See Storch, H. A., Dillon, and Caldwell.)

Calissi, Paul C., Philadelphia, Pa. Lamp. 2,156,617; May 2.

Callender's Cable and Construction Company Limited. (See Harris, Gavin M., assignor.)

Camp, Albert F. (See Myers, S., and Camp.)

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,156,720; May 2.

Campbell, Donald J., Spring Lake Township, Ottawa County, Mich. Molding. 2,156,523; May 2.

Campbell, Monterey, Sanford, N. C. Combination farm machine. 2,156,681; May 2.

Campbell, Phillip D., Kansas City, Mo. Mechanical movement. 2,156,372; May 2.

Campbell, Wyant & Cannon Foundry Company. (See Anderson, Adolph G., assignor.)

Carbide and Carbon Chemicals Corporation. (See Carruthers, T. F., and Blair, assignors.)

Carbide and Carbon Chemicals Corporation. (See Langwell, H., and Stanley, assignors.)

Carlini, Alfonso, Dawson, N. Mex. Turning table jack for automobiles. 2,156,582; May 2.

Carlson, Arnold B. (See Smith, Edgar B., assignor.)

Carruthers, Charles, Bath, England. Roller and breast grinding mill. 2,156,618; May 2.

Carruthers, Charles, Bath, England. Roller grinding mill. 2,156,620; May 2.

Carruthers, Charles, and J. R. Torrance, Bath, England. Roller and breast bar mill. 2,156,619; May 2.

Carruthers, Thomas F., South Charleston, and C. M. Blair, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Light stabilizers for vinyl resins. 2,157,068; May 2.

Carter, Albert S. (See Calcott, W. S., Carter, and Downing.)

Carter Carburetor Corporation. (See Ericson, George R., assignor.)

Carter Carburetor Corporation. (See Henning, Otto, assignor.)

Carter, Edward J., et al. (See Geller, Leon W., assignor.)

Casco Products Corporation. (See Johnson, Arthur A., assignor.)

Catland, Alfred C., Alhambra, assignor to Globe Oil Tools Company, Los Nietos, Calif. Cutter mounting. 2,156,676; May 2.

Celanese Corporation of America. (See Martin, Herbert E., assignor.)

Chace, Thomas B., Winnetka, assignor to Clad Metals Industries Inc., Chicago, Ill. Coating steel strips. 2,156,331; May 2.

Chambers, John E., Shelbyville, Ind. Dial. 2,156,490; May 2.

Chandler-Evans Corporation. (See Storch, H. A., Dillon, and Caldwell, assignors.)

Chaplin Corporation. (See Chaplin, Merle P., assignor.)

Chaplin, Merle P., assignor to Chaplin Corporation, South Portland, Maine. Holding and supporting member. 2,156,583; May 2.

Chemical Foundation, Inc. (See Kaye, A. L., Williams, and Wulff, assignors.)

Christensen, David J., Berkeley, Calif. Variable scale. 2,156,524; May 2.

Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Filled bag closing unit. 2,156,526; May 2.

Christensen, Norman V., and C. C. Smith, Chicago, and G. Sauer, Berwyn, assignors to Union Special Machine Company, Chicago, Ill. Feed mechanism for sewing machines and the like. 2,156,525; May 2.

Cianchi, Alfredo, London, England. Mercury switch. 2,156,971; May 2.

Clad Metals Industries Inc. (See Chace, Thomas B., assignor.)

Clark, Kempton, Little Compton, R. I., assignor to American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Method of and mechanism for sealing capped containers. 2,156,801; May 2.

Clark, Otto B., assignor to The Lubrication Corporation, Chicago, Ill. Dispenser. 2,156,527; May 2.

Clayton, Benjamin, Houston, Tex., assignor to Refining, Inc., Reno, Nev. Refining oil. 2,157,069; May 2.

Clemence, Le Roy W. (See Raiziss, G. W., and Clemence.)

Cleveland Crane & Engineering Company, The. (See Wehr, William G., assignor.)

Clopay Corporation. (See Johnson, Samuel J., assignor.)

Closson, Bruce H. (See Closson, Donald L. and B. H.)

Closson, Donald L. and B. H., Benton Harbor, Mich. Safety switch. 2,156,946; May 2.

Coe, Frank S. (See Curtis, L. F., and Coe.)

Coe, Frank S., assignor to American Bosch Corporation, Springfield, Mass. Radio tuning device. 2,156,677; May 2.

Coen, Jesse L., Bluefield, W. Va. Desk stand. 2,156,276; May 2.

Coey, Stewart C., Glen Ridge, N. J. Cooling tower. 2,157,070; May 2.

Cohen, Samuel, Brooklyn, N. Y. Variable condenser. 2,156,449; May 2.

Cole, Fred H., Glendale, Calif., assignor, by mesne assignments, to General Electric Company. Apparatus for interrupting an electric circuit. 2,156,450; May 2.

Cole, Fred H., Glendale, Calif., assignor, by mesne assignments, to General Electric Company. Switching mechanism. 2,156,663; May 2.

Coleman, Gerald H., and G. V. Moore, assignors to The Dow Chemical Company, Midland, Mich. Alkyl ethers of meta-phenylphenol. 2,157,071; May 2.

Collins, Martin M., Danbury, Conn. Emergency automobile horn sounder. 2,156,751; May 2.

Colonial Broach Company. (See Hart, William A., assignor.)

Colt Samuel S., West Orange, N. J. Pulling form ties from cast concrete. 2,156,528; May 2.

Colton, Sydney H. (See Rodwell, Albert G., assignor.)

Commercial Solvents Corporation. (See Wesseler, Julian A., assignor.)

Compagnie des Avions Hanriot. (See Rivière, Henri, assignor.)

Continental Motors Corporation. (See Vincent, Edward T., assignor.)

Coons, Curtis C. (See Nelson, R. S. and Coons.)

Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Absorber for refrigerating systems. 2,156,912; May 2.

Cooper, Hugh S., Shaker Heights, assignor to Cooper Products, Inc., Cleveland, Ohio. Making lead alloys. 2,156,802; May 2.

Cooper, Hugh S., Shaker Heights, and V. R. Damerell, assignors to Cooper Products, Inc., Cleveland, Ohio. Lubricant. 2,156,803; May 2.

Cooper, Jehu P., Woodbridge, and D. W. Light, assignors to International Smelting and Refining Company, Perth Amboy, N. J. Electrodepositing tin. 2,156,427; May 2.

Cooper Products, Inc. (See Cooper, Hugh S., assignor.)

Cooper Products, Inc. (See Cooper, H. S., and Damerell, assignors.)

Corbin, Elbert A., Jr., Morton, assignor of one-half to W. C. Biddle, Lansdowne, Pa. House construction. 2,156,277; May 2.

Cordrey, Almon J., and M. Wagner, assignors to The Liquid Carbonic Corporation, Chicago, Ill. Method and apparatus for packaging. 2,156,561; May 2.

Corley, Andrew J., Jr. (See Bendict, Rome R., assignor.)

Corn Products Refining Company. (See Bode, Harold E., assignor.)

Corn Products Refining Company. (See Sturken, Oswald, assignor.)

Corn Products Refining Company. (See Swallen, Lloyd C., assignor.)

Coté, Andrew R., Brooklyn, N. Y. Jewelry. 2,156,972; May 2.

Coté, Arthur, Montreal, Quebec, Canada, assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Elastic yarn. 2,156,332; May 2.

Cox, Samuel F., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Securing structural blocks in frames. 2,156,678; May 2.

Craighead, John R., Denver, Colo. Apparel belt. 2,156,373; May 2.

Cramer, Raymond H., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Centerless grinding machine. 2,156,562; May 2.

Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)

Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Spacing apparatus. 2,156,563; May 2.

Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Back to back phase modulation receiver. 2,156,374; May 2.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation receiver. 2,156,375; May 2.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Series crystal phase modulation receiver. 2,156,376; May 2.

Cross, Matthew F. (See Cross, Roy and M. F.)

Cross, Roy and M. F., Kansas City, Mo. Cleaning oil well drilling fluids. 2,156,333; May 2.

Crothers, Paul W., assignor to Dr. G. H. Michel and Co., Inc., Cleveland, Ohio. Mortuary device. 2,156,260; May 2.

Crouse-Hinds Company. (See Hardage, Clarence A., assignor.)

Crouse-Hinds Company. (See Olley, Raymond H., assignor.)

Crown Cork & Seal Company. (See Enkur, Edward M., assignor.)

Crown Cork & Seal Company. (See Schon, Matthew, assignor.)

Crown Cork & Seal Company. (See Schon, M., and Be Ment, assignors.)

Crumrine, Chester W., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,157,053; May 2.

Cubert, Joseph R. (See Huth, W. H., and Cubert.)

Cuno Engineering Corporation, The. (See Bilger, H. W., and Kessel, assignors.)

Cupit, George W., Jr. (See Merriam, H. F., and Cupit.)

Curtis, Leslie F., and F. S. Coe, assignors to American Bosch Corporation, Springfield, Mass. Tuning mechanism for radio apparatus. 2,156,679; May 2.

Daene, Herbert, Berlin-Friedenau, assignor to Allgemeine Elektricitats Gesellschaft, Berlin, Germany. Hot cathode discharge tube. 2,156,752; May 2.

Daimler-Benz Aktiengesellschaft. (See Zinner, Karl, assignor.)

Dalpayrat, Henri F., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Electronic device. 2,156,650; May 2.

Damerell, Vivian R. (See Cooper, H. S., and Damerell.)

Daniels, Claude H., Greenwich, Conn. Producing stiffened yarn and fabric. 2,156,491; May 2.

Daniels, Ransom. (See Goodwin, C. W., and Daniels.)

Davis, Dean W., Chicago, Ill. Solenoid. 2,156,937; May 2.

Davis, Ford C., Hartville, Ohio. Apparatus for washing root vegetables. 2,156,840; May 2.

Davis, John F. A., Hamilton, Mass. Coated abrasive. 2,156,492; May 2.

Davis, Walter H., Alexander City, Ala. Tire pressure controlling apparatus. 2,156,841; May 2.

Davis, Willard A., Edgewood, R. I., assignor, by mesne assignments, to Gemex Company. Extension device. 2,156,973; May 2.

Day, Lyman A., Litchfield, Minn. Wrench. 2,156,529; May 2.

Dayton Laboratories Corporation, The. (See Rineer, A. E., and Dybvig, assignors.)

Dayton Rubber Manufacturing Company, The. (See Freedlander, Abraham L., assignor.)

De Benedetti, Francesco, Turin, Italy. Roll mill. 2,156,584; May 2.

De Bothezat, George, New York, assignor to Helicopter Corporation of America, Long Island City, N. Y. Helicopter. 2,156,334; May 2.

Deere & Company. (See Strandlund, Carl G., assignor.)

Dekker, Jan M. D., The Hague, Netherlands, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. System of carrier current transmission. 2,156,278; May 2.

De Matteo, Joseph, San Francisco, Calif. Cellar lubricator. 2,156,377; May 2.

Dennison, Brook J., Aspinwall, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Making laminated safety glass. 2,156,680; May 2.

Denoix, Paul E. J., Paris, France, assignor to Sageb, Société Anonyme de Gestion et d'Exploitation de Brevets, Fribourg, Switzerland. Percussion fuse. 2,156,471; May 2.

Denny, James J., and W. D. Robson, Schumacher, Ontario, Canada. Neutralizing the condition producing qualities of finely pulverized silicious materials. 2,156,378; May 2.

Deren, Pincus. (See Fink, C. G., and Deren.)

Dersen, Heinrich, assignor to Maschinenfabrik Carl Zangs A.-G. (Herm. Schroers Nachfl.), Krefeld, Germany. Device for conducting the thread in winding machines. 2,156,472; May 2.

De Simó, Martin, and S. H. McAllister, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Treating halogenated ketones. 2,156,721; May 2.

Detroit Harvester Company. (See Wagner, Robert W., assignor.)

Detroit Steel Products Company. (See Reynaud, Samuel C., assignor.)

Dewees, R. L. (See Dunnam, F. E., and Schmidt, assignors.)

Dewhirst, Harry, and E. Meyer, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Sealing strip. 2,156,681; May 2.

Dexter Folder Company. (See Baker, L., Martin, and Williams, assignors.)

Diamond Match Company, The. (See Wright, Charles F., assignor.)

Diamond Match Company, The. (See Zomnir, Joseph E., assignor.)

Diamond Paper and Box Company. (See Stopper, Charles A., assignor.)

Dillon, Raymond V. (See Storch, H. A., Dillon, and Caldwell.)

Dimoush, William L., Independence, Mo. Metal fastener. 2,156,682; May 2.

Dipol Process Company. (See Wood, Robert O., assignor.)

Dixie-Vortex Company. (See Barbieri, Cesare, assignor.)

Doan, Gilbert E., Bethlehem, Pa. Method of and apparatus for nonarcing circuit interruptions. 2,156,974; May 2.

Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Vehicle lighting fixture. 2,156,621; May 2.

Doba, Stephen, Jr., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmission system. 2,156,622; May 2.

Dodge, Ronald D., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,156,975; May 2.

Donath, George A., Los Angeles, Calif. Automatic battery grid casting and trimming machine. 2,156,379; May 2.

Dorsch, William C., Jamaica, assignor to American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Mechanism for cutting and applying glue to sheet material. 2,156,804; May 2.

Dow Chemical Company, The. (See Coleman, Gerald H., and Moore, assignors.)

Dow Chemical Company, The. (See Perkins, Ralph P., assignor.)

Dow Chemical Company, The. (See Peterson, F. C., and Barry, assignors.)

Dow Chemical Company, The. (See Rickert, Paul H., assignor.)

Dow Chemical Company, The. (See Slagh, Harold, assignor.)

Dow, Dewey M., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,156,805; May 2.

Downing, Frederick B. (See Calcott, W. S., Carter, and Downing.)

Drew, Richard G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Stenciling. 2,156,279; May 2.

Drew, Richard G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive sheeting. 2,156,380; May 2.

Drover, Edmund C., Wausau, Wis. Writing cabinet. 2,156,776; May 2.

Ducey, Roger H., Belmont, Mass. Vehicle identification and signaling device. 2,156,806; May 2.

Duggan, James, Melrose, Iowa. Electric circuit controlling device. 2,156,722; May 2.

Dunlop Tire and Rubber Corporation. (See Simpson, E., Stubbs, and Norcross, assignors.)

Dunnam, Frank E., and R. H. Schmidt, Fort Worth, assignors of one-third to R. L. Dewees, Tarrant County, Tex. Nonremovable illuminated license plate for motor vehicles. 2,156,753; May 2.

Dunwoodie, David M., Sr., Dayton, Ohio. Fastening device. 2,156,683; May 2.

Duplan Silk Corporation. (See Bouvet, R., and Haesler, assignors.)

Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., Carter, and Downing, assignors.)

Du Pont, E. I., de Nemours & Company. (See Lippert, A. L., and Reid, assignors.)

Du Pont, E. I., de Nemours & Company. (See Neal, A. M., and Strouse, assignors.)

Du Pont, E. I., de Nemours & Company. (See Picard, René, assignor.)

Durrell, Ernest L., assignor to American Blower Corporation, Detroit, Mich. Water-cooled coupling. 2,156,493; May 2.

Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)

Duryea, Otho C., Waterbury, Conn. Safety tread. 2,156,777; May 2.

Duryea, Otho C., Waterbury, Conn. Cushioning device for railroad cars. 2,156,779; May 2.

Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, New York, N. Y. Closed top car body. 2,156,778; May 2.

Dybvig, Henry G. (See Rineer, A. E., and Dybvig.)

Eastus, Harold L., Muncie, Ind., assignor to Owens-Illinois Glass Company. Glass building block. 2,156,623; May 2.

Eaton, George R., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Bell. 2,156,842; May 2.

Ebert, Rudolf O. F., assignor to "Universelle" Cigarettenmaschinenfabrik J. C. Mueller & Co., Dresden, Germany. Apparatus for forming cigar tips. 2,156,780; May 2.

Eclipse Aviation Corporation. (See Nardone, Romeo M., assignor.)

Eddy, Albert I., Hillside, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Battery electrode element and making the same. 2,157,072; May 2.

Edgar, David, Lynn, assignor to The Tanning Process Company, Boston, Mass. Polishing machine. 2,156,381; May 2.

Edison, Thomas A., Incorporated. (See Eddy, Albert I., assignor.)

Edwards, Wilbert A., Reedville, Va. Motorboat. 2,156,938; May 2.

Edwards, William W., Franklin, N. H., assignor to M. T. Stevens & Sons Company, North Andover, Mass. Creel for yarn packages. 2,157,073; May 2.

Egyesült Izzólámpa és Villamossagi r. t. (See Bay, Zoltan, assignor.)

Eldco, Inc. (See Hokanson, Martin, assignor.)

Electric Household Utilities Corporation. (See Gerhardt, Andrew H., assignor.)

Electric Household Utilities Corporation. (See Hume, J. T., and Van Westrum, assignors.)

Electric Household Utilities Corporation. (See Jensen, Joseph W., assignor.)

Electric Household Utilities Corporation. (See Lundy, David A., assignor.)

Electric Household Utilities Corporation. (See Rocke, Floyd L., assignor.)

Electric & Musical Industries Limited. (See Percival, William S., assignor.)

Elmer, Lewis S., Baltimore, Md. Vinegar generator system. 2,156,428; May 2.

Emmons, Russell J., assignor to The Glidden Company, Cleveland, Ohio. Weight controlled filling machine. 2,156,280; May 2.

Empire Ironer, Inc. (See Stilwell, William E., Jr., assignor.)

Endowment Foundation. (See Veber, Clinton P., assignor.)

Enkur, Edward M., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Closure and container. 2,156,585; May 2.

Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel feed device. 2,157,074; May 2.

Esselmann, Paul, Wolfen, Kreis Bitterfeld, K. Kösslinger, Dessau, and P. Säffert, Wolfen, Kreis Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Crimping device. 2,156,723; May 2.

Esterbrook Steel Pen Manufacturing Co., The. (See Longmaid, Sydney E., assignor.)

Evans, John, Oaklyn, N. J., assignor to Radio Corporation of America. Resonant circuit for ultra high frequency amplifiers. 2,156,261; May 2.

Evans, Theodore W., Berkeley, and E. F. Bullard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Secondary ethers of polyhydric alcohols. 2,156,724; May 2.

Evans, William A., Ridgewood, N. J., and W. W. Werring, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone hand-set. 2,156,754; May 2.

Ex Cell-O Corporation. (See Alden, Carroll R., assignor.)

Exner-Dodge Packer Company, The. (See Fulkerson, Richard E., assignor.)

Faber Laboratories, Inc. (See Stewart, Clifford R., assignor.)

Falk Corporation, The. (See Schmitter, Walter P., assignor.)

Farnsworth, Philo T., Springfield Township, Montgomery County, Pa., assignor to Farnsworth Television & Radio Corporation, Dover, Del. Detector. 2,156,807; May 2.

Farnsworth Television & Radio Corporation. (See Farnsworth, Philo T., assignor.)

Farrel-Birmingham Company. (See Kuhns, Austin, assignor.)

Faust, Lawrence Y., Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y. Subsurface seismic surveying. 2,156,624; May 2.

Federal Cartridge Corporation. (See Appleby, James P., assignor.)

Ferguson, John M. (See Watson, T. G. W., and Ferguson.)

Ferla, John, New York, N. Y. Treating composition boards. 2,156,382; May 2.

Ferla, John, New York, N. Y. Method of and apparatus for treating boards of composition material. 2,156,383; May 2.

Field, Samuel B., Holbrook, and E. T. Walter, Quincy, Mass., assignors to American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Method of and machine for sealing capped containers. 2,156,892; May 2.

Filtex Corporation, The. (See Kroenlein, Henry A., assignor.)

Fink, Colin G., and P. Deren, New York, N. Y. Treating metal articles to alloy constituent metals. 2,156,262; May 2.

Finholm, William S., Forest Hills, N. Y. Piano action. 2,156,913; May 2.

Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt support for sole attaching machines. 2,156,281; May 2.

Fischel, Eduard, Berlin-Charlottenburg, assignor to Siemens Apparate und Maschien Gesellschaft mit beschränkter Haftung, Berlin, Germany. Control apparatus for vehicles. 2,156,976; May 2.

Fisher, Arthur W., Forest Hills, and B. Mishelevich, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,156,684; May 2.

Fitch, Benjamin F., Greenwich, Conn. Freight transferring apparatus. 2,156,282; May 2.

Fitch, Benjamin F., Greenwich, Conn. Freight container. 2,156,283; May 2.

Flinn, Roland W., Oakland, Calif. Tensioning hair. 2,156,808; May 2.

Flook, Herbert T., et al. (See Thomas, William S., assignor.)

Flook, Stanford, et al. (See Thomas, William S., assignor.)

Flor, Henry H., et al. (See Rosener, Harold J., assignor.)

Florman, Irving, New York, N. Y. Cigarette lighter. 2,156,586; May 2.

Flory, Leslie E., Oaklyn, and G. A. Morton, Haddon Heights, N. J., assignors to Radio Corporation of America. Electric discharge device. 2,156,625; May 2.

Fluellen, Robert L., Houston, Tex. Slip. 2,156,384; May 2.

Fonarow, Nelson J., et al. (See Geller, Leon W., assignor.)

Forschein, Max. (See Toro, J. D., and Forschein.)

Franks, Gerald N. (See Gaus, G. E., and Franks.)

Fredrickson, Stanley T., Minneapolis, Minn. Radio receiving system. 2,156,809; May 2.

Freedlander, Abraham L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Printing roll. 2,156,385; May 2.

Freeman, Henry L., Chicago, Ill. Match package. 2,156,781; May 2.

Freeman, Michael W., Detroit, Mich. Protective covering. 2,156,530; May 2.

Freeman, Walter R., University City, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake control mechanism. 2,156,782; May 2.

French Renovating Company, The. (See Snyder, Victor C., assignor.)

Freyn Engineering Company. (See Rice, Owen R., assignor.)

Frick, Alfred, assignor to The Morgan Engineering Company, Alliance, Ohio. Charging machine. 2,156,386; May 2.

Frick, Carl P., et al. (See Waller, John A., assignor.)

From, Guy D., David City, Nebr. Automatic steering means for tractors. 2,156,977; May 2.

Fulke, Frank L., assignor to Frank Prox Company, Terre Haute, Ind. Making cutter bits. 2,156,725; May 2.

Fulke, Frank L., assignor to Frank Prox Company, Terre Haute, Ind. Mining machine and elements thereof. 2,156,726; May 2.

Fulkerson, Richard E., assignor to The Exner-Dodge Packer Company, Coffeyville, Kans. Packer. 2,156,939; May 2.

Gammeter, John R., Akron, Ohio, assignor to United States Rubber Company, New York, N. Y. Method and apparatus for making protective covers or containers. 2,157,054; May 2.

Garbutt, Frank A., Los Angeles, Calif. Forming sticks or ribbons of chewing gum or the like. 2,156,810; May 2.

Gardiner, John, Los Angeles, Calif. Pipe aligning device. 2,156,651; May 2.

Garrels, John C., and H. Roderick, Grosse Ile, assignors to Michigan Alkali Company, Wyandotte, Mich. Introducing lime into stills for the recovery of ammonia. 2,156,843; May 2.

Garrett, Henry U., Tyler, assignor to The Gulberson Corporation, Dallas, Tex. Bottom hole control choke. 2,156,429; May 2.

Gaus, George E., Washington, D. C., and G. N. Franks, Leland, Miss., assignors to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office. Cotton sampler apparatus. 2,156,893; May 2.

Gaus, George E., Washington, D. C., and V. L. Stedronsky, Leland, Miss., assignors to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office. Cotton sampler for cotton condensers. 2,156,894; May 2.

Gautier, Sidney F., New Orleans, La. Lunch container. 2,156,844; May 2.

Gebauer-Fuelnegg, Erich, deceased (by M. Gebauer-Fuelnegg, administratrix), Evanston, Ill., and E. W. Moffett, assignors, by mesne assignments, to Marbo Patents, Inc. Coated fibrous sheet. 2,156,755; May 2.

Gebauer-Fuelnegg, Marie, administratrix. (See Gebauer-Fuelnegg, E., and Moffett.)

Geer, Paul L., Berkeley, Calif. Vending machine. 2,156,531; May 2.

Geigy, J. R., S. A. (See Krebster, Adolf, assignor.)

Geller, Leon W., Astoria, Long Island, assignor of one-half to N. J. Fonarow and one-half to E. J. Carter New York, N. Y. Adhesive tape. 2,156,335; May 2.

Gemex Company. (See Davis, Willard A., assignor.)

Gemex Company. (See Haeffner, Emil, assignor.)

General Aniline Works, Inc. (See Lange, M., and Jacobs, assignors.)

General Aniline Works, Inc. (See v. Bock, Berud, assignor.)

General Aniline Works, Inc. (See Weinand, Claus, assignor.)

General Chemical Company. (See Merriam, H. F., and Cupit, assignors.)

General Electric Company. (See Agens, Maynard C., assignor.)
General Electric Company. (See Aydelott, John C., assignor.)
General Electric Company. (See Bedford, Bernice D., assignor.)
General Electric Company. (See Brown, C. A., and Van Sickle, assignors.)
General Electric Company. (See Cole, Fred H., assignor.)
General Electric Company. (See Jancke, H., and Reger, assignors.)
General Electric Company. (See Latta, Isaac R., assignor.)
General Electric Company. (See McCarty, Orin P., assignor.)
General Electric Company. (See McCune, Francis K., assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Oesinghaus, Werner, assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
General Electric Company. (See Wood, Alexander P., assignor.)
General Foods Corporation. (See Stagmeier, Arthur F., assignor.)
General Motors Corporation. (See Cramer, Raymond H., assignor.)
General Motors Corporation. (See Sullivan, Raymond H., assignor.)
General Railway Signal Company. (See Murphy, Daniel J., assignor.)
General Railway Signal Company. (See Vaughn, John I., assignor.)
General Spring Corporation. (See Wood, Joseph K., assignor.)
Gentele, Johan G. W., Stockholm, Sweden. Method of and apparatus for drying substances in vacuo. 2,156,845; May 2.
Geophysical Research Corporation. (See Faust, Lawrence Y., assignor.)
Gerhardt, Andrew H., assignor to Electric Household Utilities Corporation, Chicago, Ill. Hook for receptacle covers. 2,156,756; May. 2.
Getaz, James L., Maryville, Tenn. Radio transmission. 2,156,846; May 2.
Ghertzmann, Ioyno, Saint-Mande, France, assignor to International Business Machines Corporation, New York, N. Y. Sorting machine. 2,156,978; May 2.
Glidden Company, The. (See Emmons, Russell J., assignor.)
Globe Oil Tools Company. (See Catland, Alfred C., assignor.)
Godat, Edmond, Los Angeles, Calif. Weight control system. 2,156,895; May 2.
Goldfinger, Isidoro, Milan, Italy. Electromagnetic latch bolt. 2,156,387; May 2.
Goodloe, Alfred M., Roanoke, Va., assignor to Metal Textile Corporation, West Orange, N. J. Scouring means. 2,156,494; May 2.
Goodrich, B. F., Company, The. (See Dewhirst, H., and Meyer, assignors.)
Goodwin, Carl W., Plainfield, N. J., and R. J. Daniels, Whitestone, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del. Method and apparatus for sealing capped containers. 2,156,811; May 2.
Gorshkoff, Alexis S. (See Mascuch, J. J., and Gorshkoff.)
Gorton-Pew Fisheries Company. (See Hempel, Herbert, assignor.)
Goss Printing Press Company, The. (See Harless, Charles A., assignor.)
Grabner, Robert, New York, N. Y. Curling apparatus. 2,156,687; May 2.
Grade, Hans, Bork, Kreis Zauch-Belzig, Germany. Vehicle body. 2,157,075; May 2.
Graham, Charlotte, New York, N. Y. Soap holder. 2,156,940; May 2.
Grand Rapids Brass Company. (See Roedding, Gordon E., assignor.)
Grasshoff, Albert, Hanover, and W. König, assignors to G. Siegle & Co., G. m. b. H., Stuttgart, Germany. Chromium hydroxide green. 2,156,451; May 2.
Gray, Alvin E., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Record controlled machine. 2,156,979; May 2.
Great Northern Paper Company. (See Whitcomb, William A., assignor.)
Green, James, Brackenridge Heights, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Polishing block. 2,156,686; May 2.
Gregory, James, New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass cutting apparatus. 2,156,847; May 2.
Greider, James B., Racine, Wis. Shoe. 2,156,532; May 2.
Griffin, William M. (See Jauch, R. J., Sturm, and Griffin.)
Groninger, Holmes B., Port Royal, Pa. Hot top. 2,156,980; May 2.
Groote, Andreas, Dortmund, Germany. Bearing block or pedestal for marine vessels. 2,156,848; May 2.
Grosse, Vitaly, Berlin-Lichterfelde, Germany, assignor to F. Strauss, née Ruppel, New York, N. Y. Electric switch. 2,156,388; May 2.
Grossman, Cornell J., Millburn, N. J. Dental casting alloy. 2,156,757; May 2.
Grottum, B. E. (See Hurst, James L., assignor.)
Gulberson Corporation, The. (See Garrett, Henry U., assignor.)
Gunter, Elzy H., Wagener, S. C. Mowing machine attachment. 2,156,981; May 2.
Gutierrez, Peter P., Watsonville, Calif. Bracket for supporting a direction indicator or the like. 2,156,849; May 2.
Guyman, Clarence L., Great Neck, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Trawling signal. 2,156,452; May 2.
Haas, Lucien L. (See Starkweather, G. C., and Haas.)
Haase, Heinrich E., assignor to Industrial Patents Corporation, Chicago, Ill. Inking device. 2,156,758; May 2.
Haeffner, Emil, assignor to Gemex Company, Newark, N. J. Bracelet construction. 2,157,076; May 2.
Haesler, John. (See Bouvet, R., and Haesler.)
Hafer, Harry W., Winnett, Mont. Trailer bed. 2,156,850; May 2.
Haigh, Vaughn, Muncie, Ind., assignor, by mesne assignments, to Borg-Warner Corporation. Automatic transmission. 2,156,336; May 2.
Hale, Adolph A., Grand Haven, Mich. Machine and method for manufacturing bushings. 2,156,337; May 2.
Halkias, Theodore. (See West, Claude J., assignor.)
Hall, Frank W., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Process and apparatus for separating laminated glass sheets. 2,156,688; May 2.
Hall, Frederick W., assignor to Richards-Wilcox Canadian Company, Limited, London, Ontario, Canada. Door operator. 2,156,473; May 2.
Hall, Hettie M., Ocean Beach, Calif. Stay-bib bonnett apron. 2,156,495; May 2.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar machine. 2,156,284; May 2.
Ham, Garnet P., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Photographic developing medium producing fine grain results. 2,156,626; May 2.
Hamilton, Alfred E., Pittsburgh, and L. M. Stempel, Coraopolis, Pa. Grinding machine. 2,156,453; May. 2.
Hammarling, Hjalmar, Stocksund, near Stockholm, Sweden. Machine for cleaning carpets, garments, and the like. 2,156,389; May 2.
Handley Page Limited. (See Lachmann, Gustav V., assignor.)
Handwerk, Otto T., assignor to Republic Flow Meters Company, Chicago, Ill. Sensitive instrument. 2,156,496; May 2.
Hansen Canning Machinery Corporation. (See Mondloch, Henry, assignor.)
Hansgirg, Fritz, Konan, Korea. Production of heavy water. 2,156,851; May 2.
Hardage, Clarence A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Explosionproof switch housing. 2,156,564; May 2.
Harford, Carles G., Wollaston, Mass., and E. Stafford, Philadelphia, Pa., assignors to Arthur D. Little, Inc. Spinning glass. 2,156,982; May 2.
Hargreaves, Percy. (See Barrett, E. W., and Hargreaves.)
Harless, Charles A., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Rotary delivery mechanism. 2,156,454; May 2.
Harnly, David H., Chicago, Ill., deceased; W. R. Matheny, administrator. Weatherproofing structure for doors. 2,156,430; May 2.
Harper, Carolyn L., et al., trustees. (See Harper, Philip S., assignor.)
Harper, Philip S., assignor of one-fourth to C. L. Harper and one-fourth to P. S. Harper, Chicago, Ill., and one-half to P. S. Harper and C. L. Harper, as trustees. Gas burner. 2,156,533; May 2.
Harper, Philip S., et al., trustees. (See Harper, Philip S., assignor.)
Harris, Clarence E., Winthrop, Mass. Wrench. 2,156,285; May 2.
Harris, Gavin M., assignor to Callender's Cable and Construction Company Limited, London, England. Manufacture of wire strands. 2,156,652; May 2.
Harrison, Clifford E., assignor to American Engineering Company, Philadelphia, Pa. Material feeding mechanism. 2,156,627; May 2.
Harrison, Laurence S., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Time recorder. 2,156,983; May 2.
Harshaw Chemical Company, The. (See Bozarth, Abe R., assignor.)
Harshberger, Norman P., Scarsdale, assignor to Bakelite Building Products Co. Inc., New York, N. Y. Method and apparatus for making building materials or the like. 2,156,286; May 2.
Hart, Earl H., Berkley, Mich. Mortar depositing device. 2,156,474; May 2.
Hart, William A., Detroit, Mich., assignor to Colonial Broach Company. Rotary broaching machine. 2,156,941; May 2.

Hartman, Leon. (See Mendelsohn, S., and Hartman.)
Hatch, George B., Pittsburgh, Pa., assignor to Western Cartridge Company, East Alton, Ill. Explosive. 2,156,942; May 2.
Hatteberg, Ole J., Elliott, Ill. Hanger for flexible loading spouts. 2,156,587; May 2.
Haupt, Hans, Berlin, Germany. Folding umbrella. 2,156,984; May 2.
Hazard, Charles S., New York, N. Y., assignor to Neptune Meter Company. Temperature compensator for meter driven registers. 2,156,812; May 2.
Heald Machine Company, The. (See Burns, Alfred P., assignor.)
Helicopter Corporation of America. (See de Bothezat, George, assignor.)
Heller, Henry C., Collingdale, Pa., assignor to Baldwin-Southwark Corporation. Compressor-unloader structure. 2,156,943; May 2.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,156,475; May 2.
Hempel, Herbert, Essex, assignor to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass. Treating fish livers. 2,156,985; May 2.
Henkel, Hermann. (See Heyner, W., and Henkel.)
Henning, Otto, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor for internal combustion engines. 2,156,390; May 2.
Henzi, Ernst A. (See Mayer, B., and Henzi.)
Herbert, Alfred, Limited. (See Lloyd, Arthur H., assignor.)
Hermann, Otto L., assignor to Buxton & Skinner Printing & Stationery Company, St. Louis, Mo. Combined leaf holder and bookmark. 2,156,944; May 2.
Herold, James L., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Driving device and controlling the flow of fluids therein. 2,156,497; May 2.
Heuer, Hans H. A., Rochester, Mich. Horticulture shading device. 2,156,986; May 2.
Heyner, Willi, and H. Henkel, Berlin-Neukolln, Germany. Screw-threaded connecting means. 2,156,338; May 2.
Hickok, Willard, Bloomfield, N. J., assignor, by mesne assignments, to Radio Corporation of America. Television transmitting tube. 2,156,391; May 2.
Hildebrandt, Friedrich. (See Butenandt, A., and Hildebrandt.)
Hill, Andrew E. (See Booker, C. A., and Hill.)
Hill, Thomas M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Wrapper for foodstuffs. 2,156,987; May 2.
Hines, Claude M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Switch control system. 2,156,689; May 2.
Hines, Claude M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Switch control system. 2,156,690; May 2.
Hines, Claude M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Switch control circuits. 2,156,691; May 2.
Hinrichs, Ferdinand, Kenosha, Wis. Valve. 2,156,498; May 2.
Hintze, Rudolf, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Compression refrigerating apparatus. 2,156,628; May 2.
Hixon, Alfred J., Braintree, Mass. Manufacturing articles. 2,156,692; May 2.
Hoffman, Max. (See Steinmetz, Julius, assignor.)
Hoffman, Karl. (See Miescher, K., and Hoffmann.)
Hokanson, Martin, assignor to Eldco, Inc., Duluth, Minn. Drill bit. 2,156,287; May 2.
Holcomb, Lloyd M., Perry, Iowa. Processing yeast for combination with food products. 2,156,499; May 2.
Holcombe, Homer H., Atlanta, Ga., assignor to Textile Equipment, Inc. Spring side metal shuttle. 2,157,055; May 2.
Holland Company. (See Nylander, Erick G., assignor.)
Holliday, Theodore B., Dayton, Ohio. Flying automobile. 2,156,288; May 2.
Honig, Frank, Pawtucket, R. I. Method and apparatus for winding balls. 2,156,896; May 2.
Hooper, William E., & Sons Company. (See Beck, Harry B., assignor.)
Hoover Company, The. (See Babcock, Earl, assignor.)
Hoover Company, The. (See Coons, Curtis C., assignor.)
Hoover Company, The. (See Nelson, Rudolph S., assignor.)
Hoover Company, The. (See Nelson, R. S., and Coons, assignors.)
Hoover Company, The. (See Siedle, Arnold D., assignor.)
Hopewell, Robert, London, England. Floor construction. 2,156,588; May 2.
Hopkins, Charles L., River Forest, Ill., assignor to Bendix Products Corporation, South Bend, Ind. Automatic clutch system for motor vehicles. 2,156,589; May 2.
Hopkinsons Limited. (See Simpson, John W. L., assignor.)
Horák, Václav, Prague, Czechoslovakia. Gas mask. 2,156,852; May 2.
Horn, Emil F., Long Island City, N. Y. Mechanism for reversing material. 2,156,339; May 2.
Houdaille-Hershey Corporation. (See Sandberg, Ray A., assignor.)
Hovey, Preston W., and C. L. Thompson, Oakland, Calif. Spray gun. 2,156,783; May 2.
Hoy, Edward W., Buffalo, assignor to Permochart Corporation, New York, N. Y. Record chart for automatic recording instruments. 2,156,289; May 2.
Hubbard Spool Company. (See Tucker, George G., Jr., assignor.)
Hubbell, Harvey, Jr., Bridgeport, Conn. Vacuum controlled emergency brake operating device. 2,156,290; May 2.
Huggins, Frank E., Jr., assignor to Sowers Manufacturing Co., Buffalo, N. Y. Thermocouple. 2,156,853; May 2.
Humber, Charles T., Oakland, Calif. Preventing retrograde movement of a vehicle. 2,156,590; May 2.
Hume, John P., Chicago, Ill., and C. Van Westrum, Houston, Tex., assignors to Electric Household Utilities Corporation, Chicago, Ill. Cabinet domestic appliance. 2,156,759; May 2.
Hurst, James L., Spirit Lake, Iowa, assignor of one-half to B. E. Grottum, Jackson, Minn. Mail box. 2,156,854; May 2.
Hurt, George F., New York, N. Y., assignor, by mesne assignments, to Jig-Action Filters, Inc. Cleaning of filter beds. 2,156,291; May 2.
Husted, Harry A., assignor, by mesne assignments, to Thermo-Plastics, Incorporated, St. Clair, Mich. Two-piece hub construction. 2,156,476; May 2.
Hutchinson, Miller R., New York, N. Y. Seat. 2,156,629; May 2.
Huth, Walter H., and J. R. Cubert, assignors to Aurex Corporation, Chicago, Ill. Audiometer. 2,156,945; May 2.
Hyde, A. R., and Sons Co. (See Rossi, Rocco F., assignor.)
Hyland, Lawrence A., Washington, D. C., assignor, by mesne assignments, to Bendix Radio Corporation, New York, N. Y. Electric discharge device circuits. 2,156,534; May 2.
I. G. Farbenindustrie Aktiengesellschaft. (See Baader, Otto, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Esselmann, P., Kösslinger, and Saffert, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kleine, J., and Brennecke, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Korinth, E., and Meder, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Wolf, K., and Scheuermann, assignors.)
Iams, Harley A., Berkeley Heights, N. J., assignor, by mesne assignments, to Radio Corporation of America. Television transmitting apparatus. 2,156,392; May 2.
Ilberg, Waldemar, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Ultra short wave system. 2,156,653; May 2.
Illinois Tool Works. (See Olsen, Carl G., assignor.)
Industrial Patents Corporation. (See Haase, Heinrich E., assignor.)
Industrial Patents Corporation. (See Sadoff, Bernard J., assignor.)
Industrial Process Corporation. (See Minor, Henry R., assignor.)
Industrial Rayon Corporation. (See Kline, Hayden B., assignor.)
International Business Machines Corporation. (See Bryce, James W., assignor.)
International Business Machines Corporation. (See Crumrine, Chester W., assignor.)
International Business Machines Corporation. (See Dodge, Ronald D., assignor.)
International Business Machines Corporation. (See Ghertzmann, Ioyno, assignor.)
International Business Machines Corporation. (See Gray, Alvin E., assignor.)
International Business Machines Corporation. (See Harrison, Laurence S., assignor.)
International Business Machines Corporation. (See Keen, Harold H., assignor.)
International Business Machines Corporation. (See Offner, Maximilian, assignor.)
International Business Machines Corporation. (See Torkelson, Torkel E., assignor.)
International Business Machines Corporation. (See Von Pein, E. J., and Schlessiger, assignors.)
International Cigar Machinery Company. (See Halstead, John F., assignor.)
International Harvester Company. (See Johnston, E. A., Rogers, and Bechman, assignors.)
International Harvester Company. (See Lacey, Sumner E., assignor.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Harvester Company. (See Lindgren, A. C., and Morkovski, assignors.)
International Harvester Company. (See Lindgren, A. C., and Mott, assignors.)
International Manufacturing Company, The. (See Johnson, Roy W., assignor.)
International Nickel Company. (See Welwood, Joseph S., assignor.)
International Smelting & Refining Company. (See Anderson, G., and Olsen, assignors.)
International Smelting and Refining Company. (See Cooper, J. P., and Light, assignors.)

Interstate Bakeries Corporation. (See Weltmer, Tracy C., assignor.)
Irvington Varnish & Insulator Co. (See Kuzmick, Joseph N., assignor.)
Isaacs, Moses H., et al., executors. (See Mollns, Walter E.)
Jackson, John G., and W. T. Allen, assignors to Square D Company, Detroit, Mich. Circuit breaker. 2,156,760; May 2.
Jackson, John G., and W. T. Allen, assignors to Square D Company, Detroit, Mich. Circuit breaker. 2,156,761; May 2.
Jackson, John G., and R. Mueller, assignors to Square D Company, Detroit, Mich. Circuit breaker. 2,156,762; May 2.
Jacobs, Theodor. (See Lange, M., and Jacobs.)
Jacobson, Carl A., Morgantown, assignor to Sealco By-Products Company, Bluefield, W. Va. Manufacture of carburized silica. 2,156,591; May 2.
Jacobson, Moses G., Swissvale, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Gas testing. 2,156,693; May 2.
Jancke, Hans, Berlin, and M. Reger, Berlin-Charlottenburg, Germany, assignors to General Electric Company. Electric lamp and similar device. 2,156,988; May 2.
Jauch, Robert J., F. W. Sturm, and W. M. Griffin; W. Shambaugh and F. J. Travers, coexecutors of W. M. Griffin, deceased, assignors to The Wayne Pump Company, Fort Wayne, Ind. Liquid dispensing apparatus. 2,157,087; May 2.
Jensen, Joseph W., assignor to Electric Household Utilities Corporation, Chicago, Ill. Clothes drier. 2,156,784; May 2.
Jeschor, Paul, Breslau, Germany. Boring machine gauge. 2,156,500; May 2.
Jig-Action Filters, Inc. (See Hurt, George F., assignor.)
Johnson, Arthur A., assignor to Casco Products Corporation, Bridgeport, Conn. Windshield heater. 2,157,056; May 2.
Johnson, George A., Trumbull, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric tumbler switch. 2,156,989; May 2.
Johnson, James P., Shaker Heights, Ohio. Vacuum pump. 2,156,340; May 2.
Johnson Laboratories, Inc. (See Sinninger, Dwight V., assignor.)
Johnson, Melvin W., Nutley, N. J., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Wood-sealing composition. 2,156,694; May 2.
Johnson, Roy W., Wyoming, assignor to The International Manufacturing Company, Cincinnati, Ohio. Automobile-type lamp. 2,156,947; May 2.
Johnson, Samuel J., assignor to Clopay Corporation, Cincinnati, Ohio. Making window shades. 2,157,057; May 2.
Johnston, Edward A., Chicago, C. R. Rogers, Oak Park, and W. O. Bechman, Chicago, Ill., assignors to International Harvester Company. Torque brace for track type tractors. 2,156,565; May 2.
Jones Brothers Company. (See Knox, Robert, assignor.)
Jones, Lucian N. (See Smith, H. L., Jr., and Jones.)
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 2,156,393; May 2.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 2,156,394; May 2.
Kahn, David, Inc. (See Zimmer, Edward, assignor.)
Kamlet, Jonas. (See Rosenthal, L., and Kamlet.)
Katz, Morris, Bronx, N. Y. Cellulosic ribbon. 2,156,501; May 2.
Kaufman, Hiram J., Detroit, Mich. Concentrator for hygroscopic solutions. 2,156,293; May 2.
Kautz, Robert J., Brooklyn, N. Y. Electronic camera. 2,156,813; May 2.
Kay Manufacturing Corporation. (See Krakauer, Abraham, assignor.)
Kaye, Albert L., and R. S. Williams, Belmont, and J. Wulff, Cambridge, Mass., assignors to Chemical Foundation, Inc., New York, N. Y. Stainless steel. 2,156,914; May 2.
Kayn, Stephen F., New York, and D. D. Whyte, Brooklyn, N. Y. Apparatus for curling hair. 2,156,948; May 2.
Keen, Harold H., Letchworth, England, assignor to International Business Machines Corporation, New York, N. Y. Paper spacing mechanism for printing machines. 2,156,990; May 2.
Keller, Anton M., Salzburg-Aigenglas, Austria. Table tennis racket. 2,156,477; May 2.
Kellogg Switchboard and Supply Company. (See Eaton, George R., assignor.)
Kemmerer, Ralph R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,156,855; May 2.
Kemp, Vivian F., assignor to Kempat Limited, London, England. Bust support. 2,156,478; May 2.
Kempat Limited. (See Kemp, Vivian F., assignor.)
Kennedy, Davis E., Slidell, La. Level checking apparatus. 2,156,292; May 2.
Kessel, Karl T. (See Bilger, H. W., and Kessel.)
Kessenich, Gregory J., Madison, Wis. Shock absorbing device. 2,156,294; May 2.
Kiesling, Le Roy H., Brooklyn, N. Y. Elevator door mechanism. 2,156,295; May 2.
Killman, Robert T. and T. A., Nashville, Tenn. Projecting motion pictures in natural color. 2,156,814; May 2.
Killman, Thomas A. (See Killman, Robert T. and T. A.)
Kimble Glass Company. (See Walker, Walter T., assignor.)
Kingsbury Engineering Company, The. (See Myers, S., and Camp, assignors.)
Kinnee, Herbert E., Detroit, Mich. Card game indicator. 2,156,856; May 2.
Kirschbraun, Lester, assignor to The Patent and Licensing Corporation, New York, N. Y. Building unit and manufacture thereof. 2,156,566; May 2.
Kleid, Peter, San Francisco, Calif. Bottle closure. 2,156,654; May 2.
Klein, Clarence J., Steubenville, Ohio. Coil-handling apparatus. 2,156,695; May 2.
Kleine, Johannes, Dessau, and W. Brennecke, Dormagen, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of felt. 2,156,455; May 2.
Kline, Hayden B., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Rayon spinning apparatus. 2,156,296; May 2.
Klinger, John H., Indianapolis, Ind. Dishwashing machine. 2,156,949; May 2.
Klönne, Aug. (See Pechstein, Walter, assignor.)
Klouman, Henning, assignor to Michiana Products Corporation, Michigan City, Ind. Roll for heat treating furnaces. 2,156,395; May 2.
Knapp, Leland G., Chicago, Ill. Washing machine. 2,156,992; May 2.
Knight Leather Products, Inc. (See Schwartz, Irving, assignor.)
Knoche, Henry W., St. Paul, Minn. Vapor bath cabinet. 2,156,993; May 2.
Knoll, Max. (See Schröter, F., and Knoll.)
Knoll, Max, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for reflecting of cathode rays. 2,156,915; May 2.
Knowlton, Clarence S., Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Timing circuits. 2,156,630; May 2.
Knox, David R., assignor to Bundy Tubing Company, Detroit, Mich. Magnetic testing apparatus. 2,156,592; May 2.
Knox, Robert, Berlin, Vt., assignor to Jones Brothers Company, Boston, Mass. Sandblast shaping. 2,156,696; May 2.
König, Wilhelm. (See Grasshoff, A., and König.)
Kopp, Walter R., New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company. Flashlight. 2,156,916; May 2.
Korlath, Erich, Frankfort-on-the-Main-Hochst, and G. Meder, Munster, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Blue pigment colors and preparing them. 2,156,727; May 2.
Kösslinger, Karl. (See Esselmann, P., Kösslinger, and Saffert.)
Krakauer, Abraham, assignor to Kay Manufacturing corporation, Brooklyn, N. Y. Spring structure. 2,156,728; May 2.
Krause, Gus C., Lake Benton, Minn. Cultivator drag 2,156,729; May 2.
Krebser, Adolf, Riehen, near Basel, assignor to the firm of J. R. Geigy S. A., Basel, Switzerland. Monoazodyestuffs and their manufacture. 2,156,593; May 2.
Kremer, Philip B., Huntingtown, Md. Adjustable plowshare, 2,156,991; May 2.
Krenzien, Otto, Berlin-Siemensstadt, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electric discharge device. 2,156,631; May 2.
Kroenlein, Henry A., East Cleveland, assignor to Progress Vacuum Corporation, Cleveland, Ohio. Vacuum cleaner filters. 2,156,857; May 2.
Kroenlein, Henry A., assignor to The Filtex Corporation, Jackson, Mich. Vacuum sweeper nozzle and the like. 2,157,077; May 2.
Kruesi, Geoffrey G., Dayton, Ohio. Radio compass. 2,156,297; May 2.
Krupp Nirosta Co. (See Schafmeister, Paul, assignor.)
Kucera, Frank A., assignor to Union Special Machine Company, Chicago, Ill. Needle guide for sewing machines. 2,156,535; May 2.
Kuhns, Austin, assignor to Farrel-Birmingham Company, Incorporated, Buffalo, N. Y. Hydraulic clutch assembly. 2,156,785; May 2.
Kuner, William, assignor of one-half to E. P. Larsh, Vandalia, Ohio. Vehicle frame. 2,156,730; May 2.
Kurman, Nathan A., Woodside, N. Y. Earpiece. 2,156,632; May 2.
Kusaka, Kazuji, and H. Ashida, assignors to Minami Manshu Tetsudo Kabushiki Kaisha (South Manchuria Railway Co.), Dairen, Manchukuo. Manufacturing iron by direct reduction. 2,156,263; May 2.
Kuzmick, Joseph N., Passaic, assignor, by mesne assignments, to Irvington Varnish & Insulator Co., Irvington, N. J. Composition of matter and making the same. 2,156,431; May 2.
Lacey, Sumner E., Canton, Ill., assignor to International Harvester Company. Tool bar construction. 2,156,567; May 2.

Lachmann, Gustav V., Canons Park, assignor to Handley Page Limited, Cricklewood, Middlesex, England. Aircraft. 2,156,994; May 2.
La Ducer, Arthur O., West Hartford, assignor to The Wiremold Company, Hartford, Conn. Multiple outlet strip. 2,156,633; May 2.
La Iliff, John A., New York, N. Y. Typewriter. 2,156,697; May 2.
Lakin, Theron B., La Salle, Ill. Sign and making same. 2,156,634; May 2.
Lamb, James J., West Hartford, Conn., assignor to Radio Corporation of America. Variable band-pass filter circuits. 2,156,786; May 2.
Lamson & Sessions Company, The. (See Smith, Alexander M., assignor.)
Lander, Louis, assignor to North American Electric Lamp Company, St. Louis, Mo. Electric light mounting. 2,156,787; May 2.
Landis, Rankin D., Culpeper, Va. Device for serving subscribers with newspapers. 2,156,858; May 2.
Lange, Max, Frankfort-on-the-Main, and T. Jacobs, Wiesbaden, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuff insoluble in water and fiber dyed therewith. 2,156,731; May 2.
Langwell, Herbert, Windmill End, Epsom, and H. M. Stanley, Tadworth, England, assignors to Carbide and Carbon Chemicals Corporation. Making and recovering ethylene. 2,156,341; May 2.
Larson, Olaf, Oak Park, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Liquid measuring and filling apparatus. 2,156,788; May 2.
Larsh, Everett P. (See Kuner, William, assignor.)
Latta, Isaac R., Drexel Hill, Pa., assignor to General Electric Company. Receptacle for switchboard indicating lamps. 2,156,995; May 2.
Lawton, Frank H., Spokane, Wash. Wrapping paper fixture. 2,156,502; May 2.
Leavenworth, Frank G., Oak Park, assignor, by mesne assignments, to Packers Machinery Company, Chicago, Ill. Measuring and distributing machine. 2,156,917; May 2.
Lee, John W., Dayton, Ohio. Computing device. 2,156,568; May 2.
Leitner, Franz, Kapfenberg, Austria, assignor to Gebr. Bohler & Co. Aktiengeselischaft Wien, Vienna, Germany. Welding rod. 2,156,299; May 2.
Leitner, Franz, Kapfenberg, Steiermark, Austria, assignor to Gebr. Böhler & Co. Aktiengesellschaft Wien, Vienna, Germany. Welded article. 2,156,298; May 2.
Leo Corporation. (See Lyons, Willard E., assignor.)
Lester, Charles, Ironton, Ohio. Air filter washer. 2,156,594; May 2.
Levy, Marvin B., Lincoln, Nebr. Advertising folder. 2,156,815; May 2.
Lewis, Kenneth B. (See Morrison, J. R., and Lewis.)
Lewis, Oswald F., assignor of one-half to Newton, Chambers & Company Limited, near Sheffield, England. Endless chain cutting machine for use in mining coal and other minerals. 2,156,732; May 2.
Lewis, Oswald F., assignor of one-half to Newton, Chambers & Company Limited, near Sheffield, England. Mining machine. 2,156,733; May 2.
Lichtfeldt, Fred, Wauwatosa, Wis. Door operating mechanism. 2,156,950; May 2.
Liettle, Arthur D., Inc. (See Harford, C. G., and Stafford, assignors.)
Light, Donald W. (See Cooper, J. P., and Light.)
Lincoln, Bert H., and G. D. Byrkit, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating oils. 2,157,078; May 2.
Lincoln, Bert H., and G. D. Byrkit, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating oil. 8,157,079; May 2.
Lindblad, Axel R., Stockholm, and A. G. P. Palen, Saltsjobaden, assignors to Boldens Gruvaktiebolag, Stockholm, Sweden. Manufacturing calcium arsenate. 2,156,595; May 2.
Lindemann, George E., assignor to Republic Flow Meters Company, Chicago, Ill. Recording instrument. 2,156,503; May 2.
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Oscillation generation system. 2,156,456; May 2.
Linder, Ernest G., Philadelphia, Pa., assignor to Radio Corporation of America. Electron multiplier. 2,156,264; May 2.
Lindgren, Alexus C., Chicago, Ill., assignor to International Harvester Company. Left mechanism for tractor attached implements. 2,156,570; May 2.
Lindgren, Alexus C., Chicago, and J. Morkovski, Canton, Ill., assignors to International Harvester Company. Plow attachment for tractors. 2,156,569; May 2.
Lindgren, Alexus C., Chicago, and C. W. Mott, Rock Falls, Ill., assignors to International Harvester Company. Implement attachment for tractors. 2,156,571; May 2.
Lippert, Arnold L., Wilmington, Del., and E. E. Reid, Baltimore, Md., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyclic amides and their production. 2,156,300; May 2.
Liquid Corbonic Corporation, The. (See Cordrey, A. J., and Wagner, assignors.)
Liss, Bess S., Detroit, Mich. Acoustic device supporter. 2,156,504; May 2.
Litle, Thomas J., Jr., Detroit, Mich. Resilient cushion for beds, chairs, or the like. 2,156,664; May 2.
Litschert, Carl Z., Cleveland Heights, Ohio. Cushion heel. 2,156,342; May 2.
Lloyd, Arthur H., assignor to Alfred Herbert Limited, Coventry, England. Driving the shafts of machine tools at different speeds. 2,156,596; May 2.
Loewus, Julian S., Baltimore, Md. Cushion support. 2,156,301; May 2.
Lo Giudice, Don C., Ansonia, Conn. Propulsion means. 2,156,898; May 2.
Long, Bernard, assignor to Societe Anonyme des Manufactures des Glaces & Products Chimques de Saint-Gobain, Chauny & Cirey, Paris, France. Multicellular glass and its manufacture. 2,156,457; May 2.
Long, Herbert J., Springfield, Mass., assignor to American Bosch Corporation. Temperature control for water heaters. 2,156,458; May 2.
Longmaid, Sydney E., Villa Nova, Pa., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Blank for and method of manufacturing steel pens. 2,156,302; May 2.
Lovell-Dressel Company. (See Menna, Antonio, assignor.)
Lowe, John H., Albany, Ga. Jail or the like. 2,156,859; May 2.
Lubrication Corporation, The. (See Clark, Otto B., assignor.)
Lubri-Zol Development Corporation, The. (See Lincoln, B. H., and Byrkit, assignors.)
Lucas, Ernest C., and A. T. Pappas, Columbus, Ohio. Electric broiler. 2,156,860; May 2.
Lundy, David A., Riverside, assignor to Electric Household Utilities Corporation, Chicago, Ill. Temperature indicating device for washing machines. 2,156,763; May 2.
Lutey, William J., Seattle, Wash. Resilient cross straps for tire chains. 2,156,816; May 2.
Lutz, Frederick, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Sewing machine. 2,156,536; May 2.
Lyford, George, Cincinnati, Ohio. Diagnostic and therapeutic apparatus. 2,156,764; May 2.
Lyons, Willard E., assignor to Leo Corporation, Chicago, Ill. Stabilized solutions of metal-organic compounds and making the same. 2,156,918; May 2.
Macklin, Justin W., Lakewood, Ohio, assignor, by mesne assignments, to Thermo-Plastics, Incorporated, St. Clair, Mich. Extrusion mold. 2,156,396; May 2.
Madlé, Alain, Bristol, Conn., assignor, by mesne assignments, to M. S. Reisman, New York, N. Y. Variable speed power transmission control. 2,157,065; May 2.
Madlé, Alain, Bristol, Conn., assignor, by mesne assignments, to M. S. Reisman, New York, N. Y. Power transmission mechanism. 2,157,066; May 2.
Maimin, H., Company. (See Bangser, William, assignor.)
Mallory, Marion, Detroit, Mich. Two-cycle internal combustion engine. 2,156,665; May 2.
Mandel, Jacob, Brooklyn, assignor to American Binder Company, New York, N. Y. Binder. 2,157,080; May 2.
Marbo Patents, Inc. (See Gebauer-Fuelnegg, E., and Moffett, assignors.)
Marcolivio, Louis, assignor to A. Romano, Providence, R. I. Windshield wiper. 2,156,505; May 2.
Marcolivio, Louis, assignor to A. Romano, Providence, R. I. Windshield wiper construction. 2,156,506; May 2.
Marsack Patents Corporation. (See Marsack, Sam, assignor.)
Marsack, Sam, assignor, by mesne assignments, to Marsack Patents Corporation, Milwaukee, Wis. Mattress. 2,156,343; May 2.
Marshall, Helen C. (See Shellabarger, Rolla A., assignor.)
Martin, George A. (See Baker, L., Martin, and Williams.)
Martin, Herbert E., Cumberland, Md., assignor to Celanese Corporation of America. Concentration of aliphatic compounds. 2,156,344; May 2.
Martin, Herbert E., Cumberland, Md., assignor to Celanese Corporation of America. Concentration of aliphatic acids. 2,156,345; May 2.
Martin, Herbert E., Cumberland, Md., assignor to Celanese Corporation of America. Concentration of aliphatic acids. 2,156,346; May 2.
Martin, Thomas B., Horseheads, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Variable speed transmission. 2,156,698; May 2.
Martin, Wilfred S., Norwood, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Detergent and wetting compositions. 2,156,996; May 2.
Maschinenfabrik Carl Zangs A.-G. (Herm. Schroers Nachfl.). (See Dersen, Heinrich, assignor.)
Mascuch, Joseph J., Newark, N. J., and A. S. Gorshkoff, New York, N. Y., assignors to Breeze Corporations, Inc., Newark, N. J. Bulkhead door. 2,156,635; May 2.
Maseng, Olav, Detroit, Mich. Electrical circuit breaker. 2,156,861; May 2.
Master Electric Company, The. (See Berger, Arthur F., assignor.)
Matheny, Willard R., administrator. (See Harnly, David H., assignor.)
Mathews, John D., Oklahoma City, Okla. Fluid driven motor pump. 2,156,537; May 2.

Maugard, Adolfo B., Mexico, D. F., Mexico. Mount for cinema cameras, etc. 2,156,862; May 2.
Mauser-Werke A.-G. (See Mohn, Otto, assignor.)
May, Erich. (See Waldorf, H. W., and May.)
Mayer, Bertram, and E. A. Henzi, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Polyazo dyestuffs. 2,156,597; May 2.
Maynes, Emma C. (See Maynes, Hyla F., assignor.)
Maynes, Hyla F., assignor of one-half to E. C. Maynes, North Tonawanda, N. Y. Making heat transfer units. 2,156,538; May 2.
McAllister, Sumner H. (See de Simó, M., and McAllister.)
McAuliffe, Clifford L. (See Powell, William C., assignor.)
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,156,674; May 2.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,156,765; May 2.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,156,766; May 2.
McCarty, James E. (See Schwall, G. J., and McCarty.)
McCarty, Orin P., Pittsfield, Mass., assignor to General Electric Company. Transformer voltage regulating system. 2,156,997; May 2.
McCullough, William E., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Apparatus for forming composite metal articles. 2,156,998; May 2.
McCune, Francis K., Swampscott, Mass., assignor to General Electric Company. Photometer. 2,156,734; May 2.
McDowell, Charles A., and L. J. Smith, Oil City, Pa. Automobile accessory. 2,156,432; May 2.
McGaffey-Taylor Corporation. (See Taylor, Claude C., assignor.)
McGill Manufacturing Company. (See Popp, Rudolf, assignor.)
McLaughlin, Robert W., Jr., assignor to American Houses, Inc., New York, N. Y. Stud and like element. 2,156,347; May 2.
McMurdo, Neil, Niagara Falls, N. Y. Bridge score register. 2,156,539; May 2.
McNeil, James W., Tampa, Fla. Carton. 2,156,999; May 2.
McWhorter, William P., Miami, Fla. Panel board. 2,156,479; May 2.
Meaker, Hughes G., et al. (See Thomas, William S., assignor.)
Means, Truman I., Sana Fe, N. Mex. Bed. 2,156,507; May 2.
Meder, Georg. (See Korinth, E., and Meder.)
Meidl, Raymond, et al. (See Rosener, Harold J., assignor.)
Melrath, Earle G., Philadelphia, Pa., assignor, by mesne assignments, to American Flange & Manufacturing Co., Inc., New York, N. Y. Barrel or drum flange unit. 2,156,540; May 2.
Mendelsohn, Samuel, Brooklyn, and L. Hartman, New York, N. Y. Camera focusing device. 2,156,433; May 2.
Menna, Antonio, Newark, assignor to Lovell-Dressel Company, Inc., Arlington, N. J. Hand lantern. 2,157,081; May 2.
Merriam, Henry F., West Orange, N. J., and G. W. Cupit, Jr., Massapequa Park, assignors to General Chemical Company, New York, N. Y. Sulphur oils. 2,156,919; May 2.
Metal Textile Corporation. (See Goodloe, Alfred M., assignor.)
Metal Textile Corporation. (See Smith, Stanton M., Jr., assignor.)
Metropolitan Device Corporation. (See Allen, Albert J., assignor.)
Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
Meyer, Ernest. (See Dewhirst, H., and Meyer.)
Michalk, Hans J., et al., heirs. (See Michalk, Otto.)
Michalk, Johanna E., nee Voigt, et al., heirs. (See Michalk, Otto.)
Michalk, Otto and M. J. E., nee Voigt, Dresden, and Hans J. Michalk, Chemnitz, Germany, heirs of P. O. Michalk, deceased. Shoe making machine. 2,156,767; May 2.
Michel, Dr. G. H., and Co. (See Crothers, Paul W., assignor.)
Michiana Products Corporation. (See Klouman, Henning, assignor.)
Michigan Alkali Company. (See Garrels, J. C., and Roderick, assignors.)
Micro Switch Corporation. (See Schulte, Walter B., assignor.)
Micro Switch Corporation. (See Zook, John S., assignor.)
Miescher, Karl, Riehen, and K. Hoffmann, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Acyloxy mercury urethanes. 2,156,598; May 2.
Miescher, Karl, Riehen, and C. Scholz, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Estradiol esters esterified in 3-position and making same. 2,156,599; May 2.
Millar, Russell W. (See Bent, F. A., Millar, and Wik.)
Miller, Bemis E., Salamanca, N. Y., assignor to The American Monorail Company, Cleveland, Ohio. Electrical control system. 2,156,636; May 2.
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller, Floyd L., and C. F. Smith, Elizabeth, N. J., assignors to Standard Oil Development Company. High pressure lubricant. 2,156,265; May 2.
Mills, Victor, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Continuous countercurrent hydrolysis of fat. 2,156,863; May 2.
Milnes, Tom, assignor to Ayers Limited, Lachute Mills, Quebec, Canada. Felt. 2,157,082; May 2.
Minami Manshu Tetsude Kabushiki Kaisha. (See Kusaka, K., and Ashida, assignors.)
Mine Safety Appliance Company. (See Jacobson, Moses G., assignor.)
Minnesota Mining & Manufacturing Company. (See Drew, Richard G., assignor.)
Minor, Henry R., assignor to Industrial Process Corporation, Dayton, Ohio. Making sponge rubber. 2,156,508; May 2.
Misenhimer, Paul K., Los Angeles, and W. A. Williams, Tujunga, Calif. Portable washing machine. 2,156,541; May 2.
Mishelevich, Benjamin. (See Fisher, A. W., and Mishelevich.)
Missbach, Edmund C., Oakland, Calif., assignor to Wheeler, Reynolds and Stauffer. Weed killer. 2,156,789; May 2.
Missbach, Edmund C., Oakland, Calif., assignor to San Francisco Sulphur Company. Wettable sulphur composition. 2,156,790; May 2.
Mitchell, Orville, Dallas, Tex. Pressed steel pulley and producing same. 2,156,920; May 2.
Moffett, Eugene W. (See Gebauer-Fuelnegg, E., and Moffett.)
Mohn, Otto, Stuttgart, assignor to Mauser-Werke A.-G., Oberndorf-on-the-Neckar, Germany. Presser foot for sewing machines. 2,156,399; May 2.
Mohr, Albert C., Berkeley, Calif., assignor to Stauffer Chemical Company. Production of sulphur dioxide. 2,156,791; May 2.
Mohr, Lewis L., Philadelphia, Pa. Stepladder. 2,156,397; May 2.
Molins, Harold B., et al., executor. (See Molins, Walter E.)
Molins Machine Company Limited. (See Molins, Walter E., assignor.)
Molins, Walter E., deceased, Deptford, London; H. B. Molins and M. H. Isaacs, executors, assignors, by mesne assignments, to Molins Machine Company Limited, London, England. Manufacture of cigarettes. 2,156,600; May 2.
Mondloch, Henry, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Can filling machine. 2,156,951; May 2.
Moody, Lewis F., Princeton, N. J. Impulse turbine. 2,156,921; May 2.
Moore Company, The. (See Wunderlich, William E., assignor.)
Moore, Garnett V. (See Coleman, G. H., and Moore.)
Moreau, Jules, Paris, France. Lubricant retaining device. 2,156,398; May 2.
Morgan Construction Company. (See Morgan, M., and Sheperdson, assignors.)
Morgan Engineering Company, The. (See Frick, Alfred, assignor.)
Morgan, Launcelot R., Tucson, Ariz. Spray. 2,156,655; May 2.
Morgan, M., and J. W. Sheperdson, assignors to Morgan Construction Company, Worcester, Mass. Shearing mechanism. 2,157,000; May 2.
Morkovski, James. (See Lindgren, A. C., and Morkovski.)
Morley, Charles E., Detroit, Mich. Clothes hanger for automobiles. 2,157,001; May 2.
Morrison, John R., Hudson, Ohio, and K. B. Lewis, Worcester, Mass. Rod baking equipment. 2,156,303; May 2.
Morsing, William, Irvington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for making cable. 2,156,952; May 2.
Mortell, J. W., Company. (See Scheurer, Oliver R., assignor.)
Morton, George A. (See Flory, L. E., and Morton.)
Mosling, Bernhard A., and C. E. Sartwell, Oshkosh, Wis. Six wheeled vehicle. 2,156,601; May 2.
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Diffuser for centrifugal compressors. 2,157,002; May 2.
Mott, Carl W. (See Lindgren, A. C., and Mott.)
Mucher, John J., Brooklyn, N. Y. Mold. 2,156,459; May 2.
Mueller, Reinhold. (See Jackson, J. G., and Mueller.)
Muller, Frans G. D., Houston, Tex. Flame arrester safety device. 2,156,509; May 2.
Müller, Wolf J., and M. Niessner, assignors to Oesterreichische Dynamit Nobel Aktiengesellschaft, Vienna, Austria. Copper zinc alloys. 2,56,348; May 2.
Murphree, Eger V., and E. D. Reeves, Baton Rouge, La., assignors to Standard Oil Development Company. Obtaining oxidation products from hydrocarbons. 2,156,266; May 2.
Murphy, Daniel J., Chili, assignor to General Railway Signal Company, Rochester, N. Y. Automatic block signal system for railroads. 2,156,637; May 2.
Mussina, Henry B., Williamsport, Pa. Fishing apparatus. 2,157,003; May 2.

Myers, Shipley, and A. F. Camp, assignors to The Kingsbury Engineering Company, Limited, London, England. Type casting machine. 2,156,638; May 2.
N. V. Philips' Gloeilampenfabrieken. (See van Geel, Willem C., assignor.)
Naamlooze Vennootschap Noury & Van Der Lande's Exploitatiemaatschappij. (See Priester, Remmet, assignor.)
Nardone, Romeo M., assignor to Eclipse Aviation Corporation, East Orange, N. J. Engine starting mechanism. 2,156,602; May 2.
Nardone, Romeo M., assignor to Eclipse Aviation Corporation, East Orange, N. J. Engine starting mechanism. 2,156,603; May 2.
Nardone, Romeo M., assignor to Eclipse Aviation Corporation, East Orange, N. J. Explosive mechanism. 2,156,666; May 2.
Nardone, Romeo M., assignor to Eclipse Aviation Corporation, East Orange, N. J. Engine starting apparatus. 2,156,667; May 2.
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
National Standard Company. (See Pierce, Robert C., assignor.)
Neal, Arthur M., and G. C. Strouse, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of derivatives of N-phenyl-arylamines. 2,156,792; May 2.
Neal, Arthur M., Wilmington, Del., and G. C. Strouse, East Aurora, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of derivatives of N-phenyl-arylamines. 2,156,793; May 2.
Nelson, George R., Sr., Almelund, Minn. Detachable tire tread. 2,157,004; May 2.
Nelson, Henry E., Everett, Wash. Oil burner. 2,156,542; May 2.
Nelson, Rudolph S., assignor to The Hoover Company, North Canton, Ohio. Absorption refrigerating system. 2,156,953; May 2.
Nelson, Rudolph S., Larchmont, N. Y., and C. C. Coons, assignors to The Hoover Company, North Canton, Ohio. Refrigeration. 2,156,954; May 2.
Nelson, Victor K., Glen Afton, Ontario, Canada. Retaining device for pneumatic drills. 2,156,510; May 2.
Neptune Meter Company. (See Hazard, Charles S., assignor.)
New Hermes, Inc. (See Waldorf, H. W., and May, assignors.)
New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
Newton, Chambers & Company Limited. (See Lewis, Oswald F., assignor.)
Niagara Blower Company. (See Smith, H. L., Jr., and Jones, assignors.)
Niederreither, Hans, Munich, Germany. Insulating electrolytic apparatus operated under pressure. 2,157,090; May 2.
Nielsen, Christian R., et al. (See Thomas, William S., assignor.)
Niemann, George F., assignor to Benjamin Electric Mfg. Company, Chicago, Ill. Lighting construction. 2,156,768; May 2.
Niessner, Moritz. (See Müller, W. J., and Niessner.)
Norcross, Thomas. (See Simpson, E., Stubbs, and Norcross.)
North American Electric Lamp Company. (See Lander, Louis, assignor.)
Nylander, Erik G., Chicago, Ill., assignor to Holland Company. Shim plate. 2,157,005; May 2.
O'Connell, D. V. (See Schuppner, Elmer, assignor.)
Oesinghaus, Werner, Berlin-Treptow, Germany, assignor to General Electric Company. Current and voltage responsive apparatus. 2,157,006; May 2.
Oesterreichische Dynamit Nobel Aktiengesellschaft. (See Müller, W. J., and Niessner, assignors.)
Offner, Maximilian, Endicott, assignor to International Business Machines Corporation, New York, N. Y. Conductor terminal. 2,157,007; May 2.
Ogloblinsky, Gregory N., deceased, Collingswood, N. J., by V. K. Zworykin, administrator, Philadelphia, Pa., assignor to Radio Corporation of America. Cathode ray device. 2,156,769; May 2.
Oil Well Supply Company. (See Shimer, John M., assignor.)
Oldfield, Rene, Norristown, Pa. Hosiery stretcher. 2,156,349; May 2.
Oldham, John M. (See Young, L. A., and Oldham.)
Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Enclosed housing for electrical switches. 2,156,572; May 2.
Olsen, Rangwald S. (See Anderson, G., and Olsen.)
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Fastener. 2,156,350; May 2.
Oswego Falls Corporation. (See Sidon, Max, assignor.)
Ouellette, Ernest E., Manchester, N. H. Last. 2,156,817; May 2.
Owen, Frank M., Oklahoma City, Okla. Pipe coupling. 2,157,008; May 2.
Owén, Jonas L., Edsbyn, Sweden. Rake. 2,156,480; May 2.
Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Plate glass surfacing table. 2,156,699; May 2.
Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass cutting apparatus. 2,156,864; May 2.
Owens-Corning Fiberglas Corporation. (See Slayter, G., and Thomas, assignors.)
Owens-Illinois Glass Company. (See Eastus, Harold L., assignor.)
Owens-Illinois Glass Company. (See Vogt, Clarence W., assignor.)
Packard Motor Car Company. (See Best, Frank C., assignor.)
Packard Motor Car Company. (See Rossmann, Peter F., assignor.)
Packer, Clyde F., Marysville, Kans. Tie elevating tongs. 2,156,735; May 2.
Packers Machinery Company. (See Leavenworth, Frank C., assignor.)
Page, John H., assignor to The Shaw-Walker Company, Muskegon, Mich. Filing device for use in vertical filing systems. 2,156,955; May 2.
Page, William M., Marblehead, Mass. Shoemaking. 2,156,511; May 2.
Palén, Anders G. P. (See Lindblad, A. R., and Palén.)
Pappas, Anastasios T. (See Lucas, E., and Pappas.)
Parks, Joseph A., Jr., Milton, Mass., assignor, by mesne assignments, to Anderson Products, Incorporated. Valve for heating systems. 2,156,865; May 2.
Parva Products Company. (See Troendly, Harry P., assignor.)
Patent and Licensing Corporation, The. (See Kirschbraun, Lester, assignor.)
Paul, Gertrude, Jackson Heights, N. Y. Child's feeding bowl. 2,156,351; May 2.
Payne, Claron R., Allentown, and G. L. Wirtz, Monterey, assignors to The Atlas Mineral Products Company, Mertztown, Pa. Pipe joint. 2,156,604; May 2.
Pechstein, Walter, assignor to the firm Aug. Klönne, Dortmund, Germany. Spherical container for storing fluids, such as gas and liquids. 2,156,400; May 2.
Pennsylvania Furnace & Iron Co. (See Andersen, Christian S., assignor.)
Percival, William S., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electric wave filter. 2,156,656; May 2.
Perkins, Ralph P., assignor to The Dow Chemical Company, Midland, Mich. Phenyl mercuric aliphatic hydroxy carboxylates and making same. 2,157,009; May 2.
Perkins, Ralph P., assignor to The Dow Chemical Company, Midland, Mich. Phenylmercuric glycollate and making it. 2,157,010; May 2.
Permochart Corporation. (See Hoy, Edward W., assignor.)
Perry, Paul A., Cleveland, Ohio. Snap fastener tape. 2,157,011; May 2.
Perry, William R., assignor to Reeves Pulley Company, Columbus, Ind. Motor control system. 2,156,736; May 2.
Persson, Eric S., Malmo, Sweden. Locking means for windows and the like. 2,156,401; May 2.
Petersen, Thorvald, Erie, Pa., assignor to R. G. Wright & Co., Buffalo, N. Y. Container capping mechanism. 2,156,700; May 2.
Petersen, Thorvald, Erie, Pa., assignor to R. G. Wright & Company, Buffalo, N. Y. Belt drive mechanism. 2,156,701; May 2.
Peterson, Floyd C., Syracuse, N. Y., and A. J. Barry, assignors to The Dow Chemical Company, Midland, Mich. Preparation of cellulose ethers. 2,157,083; May 2.
Peterson, Thomas F., Worcester, Mass. Heating device. 2,156,352; May 2.
Pfnuser, Edward M., Elm Grove, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Hydraulic jack. 2,156,543; May 2.
Philipp, Lawrence A., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,157,012; May 2.
Phillips Telescopic Tops Limited. (See Bradbury, Thomas H., assignor.)
Phillips, Ward, Los Angeles, Calif. Internal combustion engine. 2,156,304; May 2.
Picard, René, Paris, France, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Method and apparatus for the production of cellulosic structures. 2,156,923; May 2.
Pierce, Harold C., Anaheim, Calif. Doorway guard and side slack bracing for crate-loaded cars. 2,156,866; May 2.
Pierce, Robert C., assignor to National Standard Company, Niles, Mich. Hose construction. 2,156,899; May 2.
Pitcher, James B., Saginaw, Mich. Bust form. 2,156,512; May 2.
Pitman, Henry L., Westfield, N. J., assignor, by mesne assignments, to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and computing machine. 2,156,481; May 2.
Pittsburgh Plate Glass Company. (See Cox, Samuel F., assignor.)
Pittsburgh Plate Glass Company. (See Dennison, Brook J., assignor.)
Pittsburgh Plate Glass Company. (See Green, James, assignor.)

Pittsburgh Plate Glass Company. (See Gregory, James, assignor.)
Pittsburgh Plate Glass Company. (See Hall, Frank W., assignor.)
Pittsburgh Plate Glass Company. (See Johnson, Melvin W., assignor.)
Pittsburgh Plate Glass Company. (See Owen, William, signors.)
Pittsburgh Plate Glass Company. (See Scull, R. D. Russell, assignor.)
Pittsburgh Plate Glass Company. (See Whittemore, Russell G., assignor.)
Place, Willard P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Receiving apparatus for communication systems. 2,156,702; May 2.
Plass, Robert H., Upper Montclair, N. J., assignor to American Machine & Foundry Company. Soft-package wrapping machine. 2,156,460; May 2.
Pommer, Erwin, Vienna, Austria. Bottle sealing apparatus. 2,157,013; May 2.
Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Electric switch. 2,156,902; May 2.
Powell, William C., Lynwood, assignor of one-half to C. L. McAuliffe, San Pedro, Calif. Pipe hanger. 2,156,639; May 2.
Powers Regulator Company, The. (See Snediker, Morton O., assignor.)
Prahl, Walter, assignor to F. Raschig G. m. b. H., Ludwigshafen-on-the-Rhine, Germany. Separating phenol and hydrogen chloride from the mixture of vapors obtained by passing chlorobenzene vapor and steam over a contact at a raised temperature. 2,156,402; May 2.
Prettyman, George W. L., Arlington, Va. Nonrecoil gun. 2,156,605; May 2.
Price, Harold W., assignor to Bendix Products Corporation, South Bend, Ind. Clutch control mechanism. 2,156,305; May 2.
Priester, Remmet, assignor to Naamlooze Vennootschap Noury & Van Der Lande's Exploitatiemaatschappij, Deventer, Netherlands. Preparing octadecadiene acid. 2,156,737; May 2.
Process Management Company. (See Ruthruff, Robert F., assignor.)
Procter & Gamble Company, The. (See Martin, Wilfred S., assignor.)
Procter & Gamble Company, The. (See Mills, Victor, assignor.)
Progress Vacuum Corporation. (See Kroenlein, Henry A., assignor.)
Prox, Frank, Company. (See Fulke, Frank L., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Dalpayrat, Henri F., assignor.)
Radio Corporation of America. (See Evans, John, assignor.)
Radio Corporation of America. (See Flory, L. E., and Morton, assignors.)
Radio Corporation of America. (See Hickock, Willard, assignor.)
Radio Corporation of America. (See Iams, Harley A., assignor.)
Radio Corporation of America. (See Lamb, James J., assignor.)
Radio Corporation of America. (See Lindenblad, Nils E., assignor.)
Radio Corporation of America. (See Linder, Ernest G., assignor.)
Radio Corporation of America. (See Ogloblinsky, Gregory N., assignor.)
Radio Corporation of America. (See Shore, Henry, assignor.)
Radio Corporation of America. (See Wamsley, Delos H., assignor.)
Radio Corporation of America. (See Wells, Norman, assignor.)
Radio Corporation of America. (See Zworykin, Vladimir K., assignor.)
Rafael, Fritz, Frankfort-on-the-Main, Germany, assignor to J. Bloch, London, England. Sliding clasp fastener. 2,157,084; May 2.
Raizlss, George W., and L. W. Clemence, Philadelphia, Pa., assignors to Abbott Laboratories, North Chicago, Ill. Tertiary amyl ortho-cresol. 2,157,014; May 2.
Rajah Company, The. (See Bell, Robert A., assignor.)
Ranney, Willet B., assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Cable conveyer. 2,156,353; May 2.
Ransom, Willard G., Homewood, Kans. Brake mechanism. 2,157,015; May 2.
Rapatz, Franz, Buderich-Dusseldorf, assignor to Gebr. Böhler & Co. Aktiengesellschaft Wien, Vienna, Germany. Austenitic addition material for fusion welding. 2,156,30; May 2.
Rapatz, Franz, Buderich-Dusseldorf, assignor to Gebr. Böhler & Co. Aktiengesellschaft Wien, Vienna, Germany. Welding hardenable steels. 2,156,307; May 2.
Raschig, F., G. m. b. H. (See Prahl, Walter, assignor.)
Raskin, Walter, New York, N. Y. Embossed tube evaporator plate for refrigerating systems. 2,156,544; May 2.
Ray, Joseph J., Nashville, Tenn. Educational device. 2,157,058; May 2.
Read, Harry A. S., Jr., Albion, N. Y. Method and apparatus for packing fruit. 2,156,434; May 2.
Records, Chester E., Columbus, Ohio. Water well. 2,157,085; May 2.
Redler Conveyor Company. (See Sinden, Alfred D., assignor.)
Reeves, Edward D. (See Murphree, E. V., and Reeves.)
Reeves Pulley Company. (See Perry, William R., assignor.)
Refining, Inc. (See Clayton, Benjamin, assignor.)
Reflector Hardware Corporation. (See Zadek, Milton, assignor.)
Refsland, Jacob, Brooklyn, N. Y. Equipment pertaining to skis. 2,156,867; May 2.
Reger, Martin. (See Jancke, H., and Reger.)
Reid, Ebenezer E. (See Lippert, A. L., and Reid.)
Reim, Victor R., et al. (See Rosener, Harold J., assignor.)
Reisman, Mildred S. (See Madlé, Alain, assignor.)
Republic Flow Meters Company. (See Handwerk, Otto T., assignor.)
Republic Flow Meters Company. (See Lindemann, George E., assignor.)
Reynaud, Samuel C., St. Clair Shores, assignor to Detroit Steel Products Company, Detroit, Mich. Window latch. 2,157,016; May 2.
Reynolds, William H., assignor to American Instrument Company, Silver Spring, Md. Control device for a radiometeorograph signal transmitter. 2,156,868; May 2.
Rice, Owen R., assignor to Freyn Engineering Company, Chicago, Ill. Blast furnace stove. 2,157,017; May 2.
Richards-Wilcox Canadian Company. (See Hall, Frederick W., assignor.)
Richert, Paul H., Fresno, Calif., assignor, by mesne assignments, to The Dow Chemical Company, Midland, Mich. Apparatus for dispensing methyl bromide. 2,156,869; May 2.
Rineer, Arthur E., and H. G. Dybvig, assignors, by mesne assignments, to The Dayton Laboratories Corporation, Dayton, Ohio. Buckle. 2,156,870; May 2.
Rittenhouse, A. E., Co. (See Rittenhouse, Arthur E., assignor.)
Rittenhouse, Arthur E., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Transformer. 2,156,461; May 2.
Rittenhouse, Henry J., assignor of one-half to F. H. Barth, Philadelphia, Pa. Rubber product. 2,156,871; May 2.
Rivière, Henri, Paris, France, assignor to Compagnie des Avions Hanriot. Lateral control surfaces of airplanes. 2,156,403; May 2.
Robb, John F., Cleveland Heights, Ohio. Confection and novelty toy. 2,156,482; May 2.
Röber, Constantin F., assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Mueller & Co., Dresden, Germany. Cigar making machine. 2,156,922; May 2.
Roberts, Jacob W., Memphis, Tenn. Casket-top holder. 2,156,872; May 2.
Roberts and Schaefer Company. (See Stump, Earl, assignor.)
Robertshaw, Thomas H., Cardiff, Wales. Device for delivering a measured quantity of liquid from a bottle or like container. 2,156,606; May 2.
Robson, Wilmot D. (See Denny, J. J., and Robson.)
Rock-Ola Manufacturing Corp. (See Williams, Harry E., assignor.)
Rocke, Floyd L., Bloomington, assignor to Electric Household Utilities Corporation, Chicago, Ill. Lubrication system for drive mechanism. 2,156,770; May 2.
Roderick, Howard. (See Garrels, J. C., and Roderick.)
Rodwell, Albert G., assignor to S. H. Colton, London, England. Production of plastic compositions. 2,157,018; May 2.
Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. 2,156,513; May 2.
Rogers, Clifford R. (See Johnston, E. A., Rogers, and Beckman.)
Rogers, Paul M., Hastings on Hudson, assignor to Anaconda Wire & Cable Company, New York, N. Y. Releasable package. 2,156,267; May 2.
Röhm & Haas Company. (See Bartoe, Willard F., assignor.)
Romano, Adelaine. (See Marcolivio, Louis, assignor.)
Ropp, Franklin N., assignor to Soule Steel Company, Los Angeles, Calif. Fabricated truss. 2,156,818; May 2.
Rose, William H., Jersey City, N. J., assignor to Stanco Inc. Discharge tube for dust guns. 2,156,268; May 2.
Rosener, Harold J., assignor of four-tenths to R. Meidl, one-tenth to H. H. Flor, and one-tenth to V. P. Reim, New Ulm, Minn. Road marker. 2,157,059; May 2.
Rosenthal, Lazar, and J. Kamlet, Brooklyn, N. Y. Preparation of a slowly absorbed antidiabetic hormone. 2,156,545; May 2.
Rossi, Rocco F., assignor to A. R. Hyde and Sons Co., Cambridge, Mass. Shoe upper. 2,156,819; May 2.
Rossmann, Peter F., assignor to Packard Motor Car Company, Detroit, Mich. Shock absorber control means. 2,156,546; May 2.
Rozmarich, Alois, Westmont, Pa., assignor to Bethlehem Steel Company. Radius cutting tool. 2,156,354; May 2.
Ruckel, Erwin, Richmond Hill, N. Y. Hosiery and making it. 2,156,657; May 2.
Rudd, Harry B., Flushing, N. Y. System for charging carbon dioxide. 2,157,019; May 2.

Ruthruff, Robert F., Nutley, N. J., assignor to Process Management Company, Inc., New York, N. Y. Manufacture of gel-type metallic oxide catalysts. 2,156,903; May 2.
Ruthruff, Robert F., Nutley, N. J., assignor to Process Management Company, Inc., New York, N. Y. Manufacture of gel-type metallic oxide catalysts. 2,156,904; May 2.
Ryan, Herbert P., Suffern, N. Y. Cigarette ashtray and holder. 2,156,738; May 2.
Sadoff, Bernard J., Buenos Aires, Argentina, assignor to Industrial Patents Corporation, Chicago, Ill. Hoghead conveyer. 2,156,771; May 2.
Saffert, Paul. (See Esselmann, P., Kösslinger, and Saffert.)
Sageb, Société Anonyme de Gestion et d'Exploitation de Brevets. (See Denoix, Paul E. J., assignor.)
Sallee, Webster I., Cleveland, Ohio. Method and apparatus for separating materials. 2,156,483; May 2.
Salyers, Clay, Los Angeles, Calif. Linoleum handling apparatus. 2,156,820; May 2.
Sandberg, Ray A., Waukegan, Ill., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Automobile locking structure. 2,156,355; May 2.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Detachable support. 2,157,020; May 2.
San Francisco Sulphur Company. (See Missbach, Edmund C., assignor.)
Sarazin, Raoul R. R., Saint-Prix, France. Device for imparting impulses to a system. 2,156,484; May 2.
Saricks, Joseph G., 2nd, et al. (See Thomas, William S., assignor.)
Sartwell, Clinton E. (See Mosling, B. A., and Sartwell.)
Sassano, Joseph, Yonkers, N. Y. Rotary brush back. 2,156,514; May 2.
Sauer, George. (See Christensen, N. V., Smith, and Sauer.)
Schaeffer, Edward G., Brooklyn, assignor to American Character Doll Co., Inc., New York, N. Y. Novelty doll. 2,156,573; May 2.
Schafmeister, Paul, Essen, Germany, assignor, by mesne assignments, to Krupp Nirosta Co., Inc., New York, N. Y. Austenitic chromium nickel steel alloys. 2,157,060; May 2.
Schassler, William, Oakland, Calif. Beverage vessel. 2,156,515; May 2.
Schering Aktiengesellschaft. (See Butenandt, A., and Hildebrandt, assignors.)
Scheurer, Oliver R., Kankakee, Ill., assignor to J. W. Mortell Company. Measuring and troweling machine. 2,156,873; May 2.
Scheuermann, Hans. (See Wolf, K., and Scheuermann.)
Schlecht, Albert. (See Watschinger, F., and Schlecht.)
Schlessiger, Paul J. (See Von Pein, E. J., and Schlessiger.)
Schmarion, Herman, New York, N. Y. Mechanical toy. 2,757,021; May 2.
Schmid, Adolf. (See Bendel, H., and Schmid.)
Schmidt, Robert H. (See Dunnam, F. E., and Schmidt.)
Schmitter, Walter P., assignor to The Falk Corporation, Milwaukee, Wis. Geared power unit. 2,156,739; May 2.
Schneider, Emil, Philadelphia, Pa. Kitchener. 2,156,516; May 2.
Schneider, Ernst, Uerdingen-on-the-Rhine, assignor to Büttner-Werke Aktiengesellschaft, Uerdingen, Niederrhein, Germany. Pneumatic circulation drier. 2,156,924; May 2.
Schneider, Wilhelm, Dessau, Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Derivatives of a-hydroxynaphthoic acid. 2,156,821; May 2.
Schnell, Steve, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking mechanism. 2,156,794; May 2.
Scholz, Caesar. (See Miescher, K., and Scholz.)
Schon, Matthew, assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Hot metal coating process. 2,156,607; May 2.
Schon, Matthew, and H. C. Be Ment, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Refractory and making same. 2,156,608; May 2.
Schonitzer, Rudolph I., Shaker Heights, Ohio. Door holding and door control mechanism. 2,156,874; May 2.
Schrauth, Walther, Berlin-Dahlem, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland. Superfatted soap. 2,157,022; May 2.
Schröter, Fritz, and M. Knoll, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Cathode ray tube. 2,156,435; May 2.
Schuh, Charles, Brooklyn, assignor, by mesne assignments, to Bakelite Building Products Co., Inc., New York, N. Y. Producing compressed products. 2,156,309; May 2.
Schuh, Charles, Brooklyn, N. Y., assignor, by mesne assignments, to Bakelite Building Products Co., Inc., Asbestos cement shingle and making the same. 2,156,310; May 2.
Schuh, Charles H., Brooklyn, assignor to Bakelite Building Products Co., Inc., New York, N. Y. Cement fiber product. 2,156,311; May 2.
Schuh, Charles H., Ridgewood, assignor, by mesne assignments to Bakelite Building Products Co., Inc., New York, N. Y. Manufacturing cement-fibrous products. 2,156,308; May 2.
Schulte, Walter B., Madison, Wis., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill. Illuminating device. 2,156,462; May 2.
Schulte, Walter B., Madison, Wis., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill. Illuminating device. 2,156,463; May 2.
Schulz, Otto F., Berlin-Wilmersdorf, Germany. Production of polymethin dyestuffs. 2,156,464; May 2.
Schumag Schumacher Metallwerke Aktiengesellschaft. (See Thyssen, Conrad, assignor.)
Schuppner, Elmer, Des Plaines, assignor of one-half to D. V. O'Connell, Chicago, Ill. Rail joint. 2,156,312; May 2.
Schwab, Martin C., Chicago, Ill. Dispensing and packaging device for fluids. 2,156,313; May 2.
Schwab, Martin C., Chicago, Ill. Sterilized liquid dispensing device. 2,156,314; May 2.
Schwall, Gregory J., and J. E. McCarty, Stockton, Calif. Speaker system for fire alarms. 2,156,356; May 2.
Schwartz, Irving, Newton, assignor to Knight Leather Products, Inc., Boston, Mass. Billfold. 2,156,875; May 2.
Schweigert, George D., Denver, Colo. Fly-book case. 2,156,740; May 2.
Scull, R. D. Russell, Festus, Mo., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Safety-glass rack. 2,156,876; May 2.
Sealco By-Products Company. (See Jacobson, Carl A., assignor.)
Seaman, Delbert O., Des Moines, Iowa. Signal switch. 2,156,703; May 2.
Seeger, Frank C., Wauwatosa, Wis. Air conditioning apparatus. 2,156,609; May 2.
Seeley, George A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Splicing a cable. 2,156,772; May 2.
Segal, Philip, Montreal, Quebec, Canda. Garment manufacture. 2,156,640; May 2.
Seidel, Richard, assignor to Vasanta Maschinenfabrik A.-G., Dresden, Germany. Speed regulating devices. 2,157,088; May 2.
Sellers, Harvey A., Jr., Decatur, Ill. Adjustable stabilizer control for toy airplanes. 2,156,741; May 2.
Seman, Herman J., Philadelphia, Pa. Collar construction. 2,156,704; May 2.
Servrite Mfg. Co. (See Wilson, Frank C., assignor.)
Severn, Arthur B., assignor to A. Stucki, Pittsburgh, Pa. Side bearing. 2,156,705; May 2.
Severn, Arthur B., assignor to A. Stucki, Pittsburgh, Pa. Roller side bearing. 2,156,706; May 2.
Shaffer, Glenn B. (See Brown, L., and Shaffer.)
Shambaugh, Willard, et al., coexecutors. (See Jauch, R. J., Sturm, and Griffin.)
Shannon, Charles D., Florence, Northampton, Mass. Game. 2,157,023; May 2.
Shaw, Noble C., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,156,685; May 2.
Shaw-Walker Company, The. (See Page, John H., assignor.)
Shell Development Company. (See Bent, F. A., Millar, and Wik, assignors.)
Shell Development Company. (See de Simó, M., and McAllister, assignors.)
Shell Development Company. (See Evans, T. W., and Bullard, assignors.)
Shell Development Company. (See Yabroff, D. L., and White, assignors.)
Shellabarger, Rolla A., Decatur, Ill., assignor to H. C. Marshall, St. Louis County, Mo. Signal lantern. 2,156,742; May 2.
Sheperdson, John W. (See Morgan, M., and Sheperdson.)
Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Sheet aligning and locating means for writing machines. 2,156,315; May 2.
Sherwood Brothers, Inc. (See Smith, Robert T., assignor.)
Shimer, John M., assignor to Oil Well Supply Company, Dallas, Tex. Boiler. 2,156,610; May 2.
Shipman, William H., Akron, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Digester apparatus. 2,156,643; May 2.
Shore, Henry, Elizabeth, N. J., assignor to Radio Corporation of America. Amplitude contractor and expander. 2,156,658; May 2.
Sibbe, Carl F., assignor to American Engineering Company, Philadelphia, Pa. Hydraulic press and control therefor. 2,156,641; May 2.
Sidon, Max, assignor to Oswego Falls Corporation, Fulton, N. Y. Cup. 2,156,574; May 2.
Siedle, Arnold D., Canton, assignor to The Hoover Company, North Canton, Ohio. Absorber for refrigerating systems. 2,156,925; May 2.
Siedle, Arnold D., Canton, assignor to The Hoover Company, North Canton, Ohio. Absorber for refrigerating systems. 2,156,926; May 2.
Siegle, G., & Co., G. m. b. H. (See Grasshoff, A., and König, assignors.)

Siegling, Ernst, Hanover, Germany. Driving belt. 2,157,061; May 2.
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Fischel, Eduard, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Bendel, H., and Schmid, assignors.)
Siemens & Halske, Aktiengesellschaft. (See Krenzien, Otto, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Hintze, Rudolf, assignor.)
Sikorsky, Igor I., Trumbull, assignor to United Aircraft Corporation, East Hartford, Conn. Retractable landing gear. 2,156,773; May 2.
Simpson, Edward, Erdington, Birmingham, A. J. Stubbs, Sheldon, Birmingham, and T. Norcross, Erdington, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Compression testing apparatus. 2,156,877; May 2.
Simpson, Harold N., Maywood, Ill. Rust preventive packaging for iron sheets and the like. 2,156,357; May 2.
Simpson, John W. L., Littleover, Derby, assignor to Hopkinsons Limited, Huddersfield, England. Operating mechanism for soot blowers. 2,156,436; May 2.
Sinclair, William H., Los Angeles, Calif. Paper clamping device. 2,156,404; May 2.
Sinden, Alfred D., Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass. Conveyer. 2,156,878; May 2.
Sinninger, Dwight V., assignor to Johnson Laboratories, Inc., Chicago, Ill. Stabilizing circuit. 2,156,358; May 2.
Skrebba Buromaschinenfabrik K.-G. (See Skrebba, Hans, assignor.)
Skrebba, Hans, Lahr, in Baden, assignor to Skrebba Buromaschinenfabrik K.-G., Freiburg in Breisgau, Germany. Paper clip applying tool. 2,156,743; May 2.
Slagh, Harold, assignor to The Dow Chemical Company, Midland, Mich. Purification of carboxylic acid amides. 2,156,642; May 2.
Slater, Richard C., Galesburg, Ill. Air cooler and conditioner. 2,156,879; May 2.
Slayter, Games, and J. H. Thomas, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation. Apparatus for making fibrous materials. 2,156,316; May 2.
Slomon, Ira I., Long Island City, N. J. Apparel protector and indicator. 2,156,880; May 2.
Ślusarz, Tadeusz, Warsaw, Poland. Fire alarm. 2,156,437; May 2.
Smith, Alexander M., Kent, assignor to The Lamson & Sessions Company, Cleveland, Ohio. Sorting machine. 2,156,822; May 2.
Smith, Beauford B., San Diego, Calif. Detachable refrigerated cutting block apparatus. 2,156,795; May 2.
Smith, Charles F. (See Miller, F. L., and Smith.)
Smith, Clarence C. (See Christensen, N. V., Smith, and Sauer.)
Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Lubricating system for sewing machines. 2,156,547; May 2.
Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Collapsible connecting rod. 2,156,548; May 2.
Smith, Edgar B., deceased; E. M. Smith, Berwyn, administratrix, assignor to A. B. Carlson, Aurora, Ill. Paint applying device. 2,156,270; May 2.
Smith, Ella M., administratrix. (See Smith, Edgar B.)
Smith, Glen, Clarkwood, Tex. Gauge line wiper. 2,157,024; May 2.
Smith, Henry J., Great Neck, N. Y. Fitting cleaner. 2,156,744; May 2.
Smith, Horace L., Jr., and L. N. Joes, Richmond, Va., assignors, by mesne assignments, to Niagara Blower Company, New York, N. Y. Air conditioning control. 2,156,317; May 2.
Smith, Labanna J. (See McDowell, C. A., and Smith.)
Smith, Robert T., Baltimore, Md., assignor to Sherwood Brothers, Inc. Oil burner suction draft control. 2,156,359; May 2.
Smith, Stanton M., Jr., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Absorbent and abrasive fabric. 2,156,549; May 2.
Smith's, John E., Sons Company. (See Van Hooydonk, Adrian C., assignor.)
Smoot, Theophilus H., Baltimore, Md. Oil burner. 2,156,405; May 2.
Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Velocity control damper. 2,157,025; May 2.
Snider, Asa B., Portland, Oreg. Ocean wave dynamo. 2,156,550; May 2.
Snyder, Victor C., assignor to The French Renovating Company, Cleveland, Ohio. Cushion scrubbing machine. 2,156,881; May 2.
Sochor, Hans, Zurich-Hongg, Switzerland. Insert for boots and shoes. 2,157,026; May 2.
Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Long, Bernard, assignor.)
Society of Chemical Industry in Basle. (See Mayer, B., and Henzi, assignors.)
Society of Chemical Industry in Basle. (See Miescher, K., and Hoffmann, assignors.)
Society of Chemical Industry in Basle. (See Miescher, K., and Scholz, assignors.)
Soss, Joseph, Roselle, N. J. Concealed hinge. 2,157,027; May 2.
Soule Steel Company. (See Ropp, Franklin N., assignor.)
Sowers Manufacturing Co. (See Huggins, Frank E., Jr., assignor.)
Specht, Walter A., Minneapolis, Minn. Circuit closer. 2,156,882; May 2.
Sperry, Ralph W. E., assignor to The Rudolph Wurlitzer Company, De Kalb, Ill. Piano action. 2,157,028; May 2.
Sprague, Frank M., Boise, Idaho. Connecting clip for match and cigarette packages. 2,156,318; May 2.
Square D Company. (See Jackson, J. G., and Allen, assignors.)
Square D Company. (See Jackson, J. G., and Mueller, assignors.)
Stafford, Earl. (See Harford, C. G., and Stafford.)
Staggs, James M., Tulsa, Okla. Refrigerating apparatus. 2,156,668; May 2.
Stagmeier, Arthur F., Montclair, N. J., assignor to General Foods Corporation, New York, N. Y. Treating nuts. 2,156,406; May 2.
Stahn, Albert, Hanover, Germany. Arc lamp. 2,156,360; May 2.
Stamm, Erich, Berlin, Germany. Combination tea strainer and drop catcher. 2,156,517; May 2.
Stanco Inc. (See Rose, William H., assignor.)
Standard Oil Development Company. (See Blau, Ludwig W., assignor.)
Standard Oil Development Company. (See Miller, F. L., and Smith, assignors.)
Standard Oil Development Company. (See Murphree, E. V., and Reeves, assignors.)
Stanley, Herbert M. (See Langwell, H., and Stanley.)
Stanley Works, The. (See Stowell, A. L., and Volz., assignors.)
Stanley Works, The. (See Volz, Frederick A., assignor.)
Staples, Crawford E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote controlling apparatus. 2,156,707; May 2.
Stark, Nathan I., Jersey City, N. J. Card system. 2,156,551; May 2.
Starkweather, Gail C., and L. L. Haas, assignors to Buffalo Pressed Steel Company, Inc., Youngstown, Ohio. Muffler. 2,157,029; May 2.
Starkweather, Gail C., and L. L. Haas, Youngstown, Ohio, assignors to Buffalo Pressed Steel Company, Inc., Buffalo, N. Y. Exhaust muffling means. 2,157,030; May 2.
Start, Ernest. (See Start, Harry W. and E.)
Start, Harry W., Carlton, and E. Start, Wilford, England. Straight-bar knitting machine. 2,156,611; May 2.
Stathem, Vereau L., Riverdale, Calif. Sickle bar assembly. 2,156,745; May 2.
Stauffer Chemical Company. (See Mohr, Albert C., assignor.)
Stedronsky, Victor L. (See Gaus, G. E., and Stedronsky.)
Steele, Walter R., Lemon Grove, Calif. Electrical testing instrument. 2,156,319; May 2.
Steffen, Clarence, Cold Spring, Ky. Doubletree. 2,156,883; May 2.
Steinmetz, Julius, Winthrop, assignor of one-half to M. Hoffman, Dorchester, Mass. Adjustable window conservatory. 2,156,746; May 2.
Stempel, Laszlo M. (See Hamilton, A. E., and Stempel.)
Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Electrical winding. 2,157,031; May 2.
Stettner, Ludwig W., Oakland, assignor to Victor Equipment Co., San Francisco, Calif. Gas pressure regulator. 2,156,823; May 2.
Stevens, M. T., & Sons Company. (See Edwards, William W., assignor.)
Stewart, Clifford R., assignor to Faber Laboratories, Inc., Los Angeles, Calif. Viscosimeter. 2,156,407; May 2.
Stewart, Russel, Catawissa, Pa. Circuit closing means for loom stop mechanism. 2,156,408; May 2.
Stilwell, William E., Jr., assignor to Empire Ironer, Inc., Cincinnati, Ohio. Ironer. 2,157,086; May 2.
Stobbe, Paul, San Francisco, Calif. Luminous sign. 2,156,409; May 2.
Stopper, Charles A., assignor to Diamond Paper and Box Company, Philadelphia, Pa. Box. 2,157,062; May 2.
Storch, Harold A., R. V. Dillon, and S. H. Caldwell, assignors, by mesne assignments, to Chandler-Evans Corporation, Detroit, Mich. Pump. 2,157,089; May 2.
Stout, Abraham B., Plymouth, Ind. Steam bath cabinet. 2,156,361; May 2.
Stowell, Austin L., and F. A. Volz, assignors to The Stanley Works, New Britain, Conn. Collable measuring rule. 2,156,905; May 2.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Clutch. 2,156,362; May 2.
Strauss, Frida, née Ruppel. (See Grosse, Vitaly, assignor.)
Streeter-Amet Company. (See Basquin, Olin H., assignor.)
Strobel, Oskar, Munich, Germany. Sewing machine. 2,157,032; May 2.
Strouse, George C. (See Neal, A. M., and Strouse.)
Stubbs, Arthur J. (See Simpson, E., Stubbs, and Norcross.)
Stuckl, A. (See Severn, Arthur B., assignor.)

Stump, Earl, assignor to Roberts and Schaefer Company, Chicago, Ill. Apparatus for gravitationally separating and cleaning coal and the like. 2,156,575; May 2.
Stupell, Leo K. (See Bangs, Ralph C., assignor.)
Sturken, Oswald, Closter, N. J., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Zein composition. 2,156,927; May 2.
Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
Sullivan, Raymond H., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Direct current converter system. 2,156,708; May 2.
Sutherland, Daniel M., Jr., Morrisville, Pa., assignor to L. M. Sutherland, Trenton, N. J., and D. G. Sutherland, Morrisville, Pa. Fiber pulp refiner. 2,156,320; May 2.
Sutherland, Daniel M., Jr., Morrisville, Pa., assignor to L. M. Sutherland, Trenton, N. J., and D. G. Sutherland, Morrisville, Pa. Fiber pulp refiner. 2,156,321; May 2.
Sutherland, Douglas G., et al. (See Sutherland, Daniel M., Jr., assignor.)
Sutherland, Lionel M., et al. (See Sutherland, Daniel M., Jr., assignor.)
Suverkrup, Herbert F., San Bernardino, Calif. Means to load vehicles. 2,156,438; May 2.
Swallen, Lloyd C., Pekin, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. The production of zein. 2,156,928; May 2.
Swallen, Lloyd C., Terre Haute, Ind., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Zein filaments. 2,156,929; May 2.
Swank Products, Inc. (See Zeman, Bernard R., assignor.)
Sykes, William E., Buffalo, N. Y. Hardening metallic bodies by the local application of heat. 2,156,884; May 2.
Takeda, Kenjiro, Tosaboridori, Nishiku, Osaka, Japan. Aluminium disk suitable for use in manufacturing circular articles. 2,156,439; May 2.
Tanning Process Company, The. (See Edgar, David, assignor.)
Taylor, Claude C., assignor to McGaffey-Taylor Corporation, Bakersfield, Calif. Oil well device. 2,156,709; May 2.
Taylor, Jerome J., Detroit, Mich. Current interrupting system. 2,156,410; May 2.
Taylor, Robert L., Aspinwall, Pa. Burial receptacle. 2,156,552; May 2.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Ilberg, Waldemar, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Knoll, Max, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, F., and Knoll, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Urtel, Rudolf, assignor.)
Textile Equipment, Inc. (See Holcombe, Homer H., assignor.)
Thermo-Plastics, Incorporated. (See Husted, Harry A., assignor.)
Thermo-Plastics, Incorporated. (See Macklin, Justin W., assignor.)
Thomas, John H. (See Slayter, G., and Thomas.)
Thomas, William R., Rapid City, S. Dak. Road map. 2,157,033; May 2.
Thomas, William S., Montoursville, assignor of nineteen per cent to J. G. Saricks, 2d, Freeland, nineteen per cent to H. T. Flook, nineteen per cent to S. Flook, nineteen per cent to H. G. Meaker, Mansfield, Pa., and five per cent to C. R. Nielsen, Washington, D. C. Battery terminal connector. 2,156,411; May 2.
Thomasen, Alfred W., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Switch box and making same. 2,156,644; May 2.
Thompson, Charles L. (See Hovey, P. W., and Thompson.)
Thompson, Harry E. (See Wyatt, B. L., and Thompson.)
Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for shunting of track circuits. 2,156,710; May 2.
Thorsen, Olav, Brooklyn, N. Y. Convertible dresser. 2,156,825; May 2.
Thyssen, Conrad, assignor to Schumag Schumacher Metallwerke Aktiengesellschaft, Aachen, Germany. Grinding cylindrical workpieces. 2,156,485; May 2.
Tice, Percival S., Chicago, Ill. Fuel supply system for internal combustion engines. 2,157,034; May 2.
Timmis, William W., Glen Cove, and W. K. Walker, assignors to American Radiator Company, New York, N. Y. Heat exchange system. 2,156,322; May 2.
Tingle, James G., Miami, Fla. Drive mechanism for tandem wheel vehicles. 2,156,412; May 2.
Tishken, Paul, Detroit, Mich. Cut-off machine. 2,156,323; May 2.
Titus, Thomas L., Denver, Colo., assignor to The Wyott Manufacturing Company, Cheyenne, Wyo. Liquid dispensing valve. 2,156,518; May 2.
Torkelson, Torkel E., Baldwin, assignor to International Business Machines Corporation, New York, N. Y. Printing mechanism. 2,157,035; May 2.
Torkelson, Torkel E., Baldwin, assignor to International Business Machines Corporation, New York, N. Y. Record book and scoring device. 2,157,036; May 2.
Toro, John D., and M. Forschein, Brooklyn, N. Y. Floor polishing and sanding device. 2,156,824; May 2.
Torrance, John R. (See Carruthers, C., and Torrance.)
Travers, Frank J., et al., coexecutors. (See Jauch, R. J., Sturm, and Griffin.)
Triumph-Werke Nürnberg A.-G. (See Wunderlich, Friedrich, assignor.)
Troendly, Harry P., assignor to Parva Products Company, Chicago, Ill. Buckle. 2,157,037; May 2.
Trumbull Electric Manufacturing Company, The. (See Thomasen, Alfred W., assignor.)
Tucker, George G., Jr., Berwyn, assignor to Hubbard Spool Company, Chicago, Ill. Spool structure. 2,156,363; May 2.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multishuttle box. 2,156,885; May 2.
Ullman, Roy, Roslyn, assignor to The Brown Instrument Company, Philadelphia, Pa. Thermometric means. 2,156,826; May 2.
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)
Underwood Elliott Fisher Company. (See Yaeger, Harry C., assignor.)
"Unichem" Chemikalien Handels A.-G. (See Schrauth, Walther, assignor.)
Union Carbide and Carbon Research Laboratories, Inc. (See Vaughn, Thomas H., assignor.)
Union Special Machine Company. (See Christensen, Norman V., assignor.)
Union Special Machine Company. (See Christensen, N. V., Smith, and Sauer, assignors.)
Union Special Machine Company. (See Kucera, Frank A., assignor.)
Union Special Machine Company. (See Smith, Clarence C., assignor.)
Union Special Maschinenfabrik, G. m. b. H. (See Lutz, Frederick, assignor.)
Union Switch & Signal Company, The. (See Bell, Charles W., assignor.)
Union Switch & Signal Company, The. (See Fisher, A. W., and Mishelevich, assignors.)
Union Switch & Signal Company, The. (See Hines, Claude M., assignor.)
Union Switch & Signal Company, The. (See Kemmerer, Ralph R., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
Union Switch & Signal Company, The. (See Place, Willard P., assignor.)
Union Switch & Signal Company, The. (See Shaw, Noble C., assignor.)
Union Switch & Signal Company, The. (See Staples, Crawford E., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
United Aircraft Corporation. (See Caldwell, Frank W., assignor.)
United Aircraft Corporation. (See Sikorsky, Igor I., assignor.)
United Shoe Machinery Corporation. (See Barton, William A., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United States Rubber Company. (See Coté, Arthur, assignor.)
United States Rubber Company. (See Gammeter, John R., assignor.)
"Universelle" Cigarettenmaschinenfabrik J. C. Mueller & Co. (See Ebert, Rudolf O. F., assignor.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Mueller & Co. (See Röber, Constantin F., assignor.)
Unverferth, Gerard A., Dayton, Ohio. Spacer and seal for building construction. 2,157,038; May 2.
Urschel, William E., Valparaiso, Ind. Washing and elevating apparatus. 2,156,364; May 2.
Urtel, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Amplifier device. 2,156,659; May 2.
Urtel, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Signaling system. 2,156,932; May 2.
Utah Radio Products Company. (Se Barrett, Edward L., assignor.)
V. Bock, Bernd, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Production of azo dyestuffs. 2,156,446; May 2.
Vajda, Franjo, Sl. Brod, assignor to Dr. Josip Abramovic, Brod n/S., Yugoslavia. Ashtray with extinguisher for cigarettes or cigars. 2,156,906; May 2.
Van Der Meulen, John, Blooming Grove, N. Y. Cow tail holder. 2,156,413; May 2.
Van Geel, Willem C., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electrode system. 2,156,660; May 2.
Van Hooydonk, Adrian C., asisgnor to John E. Smith's Sons Company, Buffalo, N. Y. Piston construction. 2,157,039; May 2.

Van Sickle, Frank B. (See Brown, C. A., and Van Sickle.)
Van Uum, John H., Lakewood, Ohio. Spring clip retaining device for bead trim. 2,156,669; May 2.
Van Uum, John H., Lakewood, Ohio. Spring clip device. 2,156,670; May 2.
Van Westrum, Colby. (See Hume, J. T., and Van Westrum.)
Vasanta Machinenfabrik A.-G. (See Seidel, Richard, assignor.)
Vaughn, John I., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 2,156,671; May 2.
Vaughn, Thomas H., Niagara Falls, N. Y., assignor to Union Carbide and Carbon Research Laboratories, Inc. Production of highly active metal carbides. 2,156,365; May 2.
Veber, Clinton P., Highland Park, assignor to Endowment Foundation, New Brunswick, N. J. Combination time lapse and photoelectric exposure control mechanism. 2,156,440; May 2.
Vedder, Edwin H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,156,886; May 2.
Vendope, Van L., assignor of thirty-three and one-third per cent to R. Burdick and thirty-three and one-third per cent to A. S. Baron, Dallas, Tex. Display device. 2,156,553; May 2.
Vickers-Armstrongs Limited. (See Wallis, Barnes N., assignor.)
Victor Equipment Co. (See Stettner, Ludwig W., assignor.)
Vigren, Sten D., and S. G. F. Blomquist, Stockholm, Sweden. Set of contact springs for electrical switching apparatus. 2,156,465; May 2.
Vincent, Edward T., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 2,156,774; May 2.
Vitek, Charles, Omaha, Nebr. Condiment container. 2,156,554; May 2.
Vogt, Clarence W., New York, N. Y., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Method and apparatus for making packages. 2,156,466; May 2.
Volk, Victor F., Brooklyn, N. Y. Dispensing container. 2,156,366; May 2.
Volz, Frederick A. (See Stowell, A. L., and Volz.)
Volz, Frederick A., assignor to The Stanley Works, New Britain, Conn. Collable rule. 2,156,907; May 2.
Von Pein, Edward J., and P. J. Schlessiger, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Punching machine. 2,157,040; May 2.
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wagner, Herman, Kansas City, Mo. Hair curling iron. 2,156,576; May 2.
Wagner, Melvin. (See Cordrey, A. J., and Wagner.)
Wagner, Robert W., assignor to Detroit Harvester Company, Detroit, Mich. Mowing machine structure. 2,157,041; May 2.
Waldorf, Helmuth W., and E. May, assignors to New Hermes, Inc., New York, N. Y. Engraving or reproducing machine. 2,156,269; May 2.
Walker, Catherin H., executrix. (See Walker, Walter T.)
Walker, Cranford P., San Marino, Calif. Measuring the location of obstructions in wells. 2,156,519; May 2.
Walker, Irving E., Cranston, R. I. Drip catcher for containers. 2,156,747; May 2.
Walker, Walter T., deceased, Vineland, N. J., by C. H. Walker, executrix, Hinsdale, Ill., assignor to Kimble Glass Company, Vineland, N. J. Device for supporting bars and the like. 2,156,748; May 2.
Walker, William K. (See Timmis, W. W., and Walker.)
Wallace, Eugene, Castleton, Kans. Jack. 2,156,930; May 2.
Wallace, Henry A., Secretary of Agriculture of the United States of America, and his successors in office. (See Gaus, G. E., and Franks, assignors.)
Wallace, Henry A., Secretary of Agriculture of the United States of America, and his successors in office. (See Gaus, G. E., and Stedronsky, assignors.)
Waller, John A., Beverly Hills, assignor to American Hardware & Importing Co., and C. P. Frick, Los Angeles, Calif. Culinary device. 2,156,645; May 2.
Wallis, Barnes N., Weybridge, assignor, by mesne assignments, to Vickers-Armstrongs Limited, London, England. Wing, fuselage, or other aircraft body. 2,157,042; May 2.
Walter, Edward T. (See Field, S. B., and Walter.)
Walter, John K., Maywood, Calif. Resilient cord release. 2,156,467; May 2.
Wamsley, Delos H., West Caldwell, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Introducing active metals into envelopes. 2,156,414; May 2.
Wanderer-Werke vorm. Winklhofer & Jaenicke Akt.-Ges. (See Buschmann, Eugen, assignor.)
Wandscheer, Evert, Sioux Center, Iowa. Window construction. 2,156,555; May 2.
Warren Textile and Machinery Supply Co. (See Barrett, E. W., and Hargreaves, assignors.)
Waters, Daniel V., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Interlocking control system. 2,157,043; May 2.
Watschinger, Frank, and A. Schlecht, Baldwinsville, N. Y. Musical instrument. 2,156,711; May 2.
Watson, Norman V. (See Watson, Victor H. and N. V.)
Watson, Thomas G. W., and J. McL. Ferguson, London, England, assignors to American Engineering Company, Philadelphia, Pa. Extension grate for multiple retort underfeed stokers. 2,156,646; May 2.
Watson, Victor H. and N. V., Leeds, England. Carton and the sealing thereof. 2,156,441; May 2.
Mayne Pump Company, The. (See Jauch, R. J., Sturm, and Griffin, assignors.)
Wehr, William G., assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Monorail support and coupling. 2,156,827; May 2.
Weihe, Hermann K., Berlin, Germany. Brake system. 2,156,415; May 2.
Weinand, Claus, Leverkusen I. G. Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyestuffs of the anthraquinone series. 2,156,887; May 2.
Wells, Norman, Ardeevin, Epsom Downs, England, assignor to Radio Corporation of America. Wireless aerial. 2,156,661; May 2.
Weltmer, Tracy C., assignor, by mesne assignments, to Interstate Bakeries Corporation, Kansas City, Mo. Cake package or the like. 2,156,556; May 2.
Welwood, Joseph S., Bronxville, assignor to International Nickel Company, Inc., New York, N. Y. Radio tube. 2,156,324; May 2.
Wendel, Frans H., Long Island City, N. Y. Producing knobs or the like. 2,157,044; May 2.
Werring, Walter W. (See Evans, W. A., and Werring.)
Wertz, Glenn E., Rockford, Ill. Mounting for doorknobs or handles. 2,156,486; May 2.
Wesseler, Julian A., Crestwood, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Thermohydrometer. 2,157,063; May 2.
West, Claude J., assignor, by mesne assignments, to T. Halkias, Philadelphia, Pa. Laundering apparatus. 2,156,712; May 2.
Wester, Lou J., Indio, Calif. Cooling apparatus. 2,156,888; May 2.
Western Cartridge Company. (See Hatch, George B.)
Western Cartridge Company. (See Kopp, Walter R., assignor.)
Western Electric Company. (See Barrett, Elliott P., assignor.)
Western Electric Company. (See Morsing, William, assignor.)
Western Electric Company. (See Seeley, George A., assignor.)
Western Electric Company. (See Waters, Daniel V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Vedder, Edwin H., assignor.)
Wheeler, Reynolds and Stauffer. (See Missbach, Edmund C., assignor.)
Whistler, Laurence V. (See Wiley, Wallace K., assignor.)
Whitcomb, William A., Dedham, Mass., assignor to Great Northern Paper Company, Millinocket, Maine. Floating sluice. 2,156,713; May 2.
White, Ellis R. (See Yabroff, D. L., and White.)
Whitney, Kenneth E., assignor to The Black & Decker Manufacturing Company, Towson, Md. Wheel scale. 2,156,325; May 2.
Whittemore, Russell G., Brackenridge, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Treating laminated glass. 2,156,714; May 2.
Whyte, Daniel D. (See Kayn, S. F., and Whyte.)
Wiese, William, Cleveland, Ohio. Airship. 2,157,045; May 2.
Wik, Simon N. (See Bent, F. A., Millar, and Wik.)
Wikander, Gustavus A., Portland, Oreg. Animal comb. 2,156,416; May 2.
Wiley, Wallace K., Buffalo, assignor, by mesne assignments, to L. V. Whistler, Kenmore, N. Y. Apparatus for deforming sheet material. 2,156,889; May 2.
Wilkinson, Robert, Cheadle Hulme, England. Automatic gramophone and the like record-playing device. 2,156,612; May 2.
Williams, Harry E., assignor to Rock-Ola Manufacturing Corp., Chicago, Ill. Severing and dispensing apparatus. 2,156,931; May 2.
Williams, Leo C. (See Baker, L., Martin, and Williams.)
Williams, Robert S. (See Kaye, A. L., Williams, and Wulff.)
Williams, William A. (See Misenhimer, P. K., and Williams.)
Wills, Percy, assignor to Wills Pressure Filled Joint Ring Limited, Bridgwater, Somerset, England. Packing means for joints. 2,156,662; May 2.
Wills Pressure Filled Joint Ring Limited. (See Wills, Percy, assignor.)
Wilson, Frank C., assignor to Servrite Mfg. Co., Bloomington, Ill. Electric grill. 2,156,557; May 2.
Wineman, Wade H., Coolspring Township, La Porte County, Ind., assignor to Sullivan Machinermy Company. Expansible chamber motor. 2,156,326; May 2.
Wiremold Company, The. (See La Ducer, Arthur O., assignor.)
Wirtz, George L. (See Payne, C. R., and Wirtz.)

Witherspoon, David J., New York, N. Y., assignor to Bee-Ko Company. Apparatus for tracing curved lines. 2,156,417; May 2.
Wohlnc, Louie, Weston, W. Va. Means and method for making glassware. 2,156,613; May 2.
Wolf, Karl, Ludwigshafen-on-the-Rhine, and H. Scheuermann, Oggersheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Friction bodies. 2,156,828; May 2.
Wood, Alexander P., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. 2,157,046; May 2.
Wood, Joseph K., Mount Vernon, assignor to General Spring Corporation, New York, N. Y. Spring device. 2,156,468; May 2.
Wood, Robert O., Montclair, N. J., assignor to Dipol Process Company, Rochester, N. Y. Solution for dyeing cast phenolic articles. 2,156,442; May 2.
Wood, William O. (See Brown, B. S., and Wood.)
Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y. Cover feeding and folding mechanism for booking machines. 2,156,558; May 2.
Wright, R. G., & Co. (See Petersen, Thorvald, assignor.)
Wrigley, Wm., Jr., Company. (See Ranney, Willet B., assignor.)
Wulff, John. (See Kaye, A. L., Williams, and Wulff.)
Wunderlich, Friedrich, assignor to the firm Triumph-Werke Nürnberg A.-G., Nuremberg, Germany. Noiseless return for typewriter carriages. 2,156,418; May 2.
Wunderlich, William E., assignor to The Moore Company, Muncie, Ind. Bed construction. 2,157,064; May 2.
Würinger, Theodor, Vienna, Austria. Treatment of feathers and similar stuffing material in pillows, cushions, and the like. 2,156,890; May 2.
Wurlitzer, Rudolph, Company, The. (See Sperry, Ralph W. E., assignor.)
Wyatt, Bernard L., and H. E. Thompson, Tucson, Ariz., assignor, by mesne assignments, to Armour and Company, Chicago, Ill. Preparation for medicinal use. 2,156,891; May 2.
Wyott Manufacturing Company, The. (See Titus, Thomas L., assignor.)
Yabroff, David L., Berkeley, and E. R. White, Albany, assignors to Shell Development Company, San Francisco, Calif. Separating mercaptans contained in a hydrocarbon liquid. 2,156,577; May 2.
Yaeger, Harry C., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,156,614; May 2.
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,156,675; May 2.
Young, Leonard A., and J. M. Oldham, Detroit, Mich.; said Oldham assignor to said Young. Razor. 2,156,559; May 2.
Zadek, Milton, assignor to Reflector Hardware Corporation, Chicago, Ill. Swivel joint. 2,156,367; May 2.
Zeman, Bernard R., assignor to Swank Products, Inc. Belt buckle. 2,156,647; May 2.
Zimmer, Edward, Newark, assignor to David Kahn, Inc., North Bergen, N. J. Fountain pen identifying device. 2,156,775; May 2.
Zinner, Karl, Dresden, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Internal combustion engine. 2,156,327; May 2.
Zomnir, Joseph E., Springfield, Mass., assignor to The Diamond Match Company, New York, N. Y. Assembling strips of flexible material. 2,156,419; May 2.
Zook, John S., Madison, Wis., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill. Illuminating device. 2,156,443; May 2.
Zublin, John A., Los Angeles, Calif. Reamer. 2,156,444; May 2.
Zwicki, Joseph R., Philadelphia, Pa., assignor to Baldwin-Southwark Corporation. Combined air conditioning unit and hair drier. 2,157,047; May 2.
Zworykin, Vladimir K., administrator. (See Ogloblinsky, Gregory N.)
Zworykin, Vladimir K., Collingswood, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Television system. 2,157,048; May 2.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cup-making machines, Paper. E. G. Wessman and H. A. Stone. Re. 21,072; May 2.
Cutter, Rotary. F. P. Miller. Re. 21,068; May 2.
Denture cleaning device. D. Pellegrini. Re. 21,069; May 2.
Dispensing device for sheet rubber deposited from an aqueous dispersion of rubber, and forming and using same. L. G. Copeman. Re. 21,065; May 2.
Heating element. F. Raffles. Re. 21,070; May 2.
Hormones, Purifying. M. Hartmann and A. Wettstein. Re. 21,064; May 2.
Hydrocarbons, Conversion of. H. Tropsch. Re. 21,073; May 2.
Oils, Conversion of hydrocarbon. L. C. Huff. Re. 21,066; May 2.
Pilot for aircraft, Automatic. L. B. Sperry. Re. 21,071; May 2.
Shock absorber. C. H. Kindl. Re. 21,067; May 2.

LIST OF DESIGN INVENTIONS

Airship. J. W. Fry. 114,533; May 2.
Atomizer. F. A. Vuillemenot. 114,571; May 2.
Atomizer, Perfume. F. A. Vuillemenot. 114,570; May 2.
Basket, Display. L. G. Hobbs. 114,537; May 2.
Bicycle frame. J. R. Morgan. 114,552–3; May 2.
Bicycle frame and container, Combined. J. R. Morgan. 114,554; May 2.
Bottle. F. W. Nitardy. 114,557; May 2.
Box for electric fence installations, Distribution. S. A. Moore. 114,549; May 2.
Cabinet, Radio. A. Swainson. 114,565; May 2.
Camera, Moving picture. P. F. Sperry. 114,603; May 2.
Cards, Deck of playing. O. E. Keene. 114,578; May 2.
Carriage and spacer guide for meat slicing machines, Combined. T. L. Hand. 114,588; May 2.
Caster. C. W. Boden. 114,527; May 2.
Charm. W. Lampl. 114,541–2; May 2.
Cleaner, Suction. W. Leathers. 114,593; May 2.
Clip or similar article. D. Cooper. 114,613; May 2.
Clock, Electric. J. Gottlieb. 114,577; May 2.
Coat. A. Alper. 114,525; May 2.
Coat. B. Chalk. 114,611–2; May 2.
Coat or similar article. C. Kanowitz. 114,623; May 2.
Coaster. J. R. Morgan. 114,551; May 2.
Coffee maker and teapot or similar article, Combined. W. B. Moore. 114,550; May 2.
Comb holder and brush, Combination. M. A. North. 114,558; May 2.
Container to be mounted on a bicycle. J. R. Morgan. 114,555; May 2.
Cutter for engine cylinders, Ridge. E. D. Green. 114,586; May 2.
Disinfector. R. A. Myers. 114,598; May 2.
Dispenser and closure for a container, Combined. E. R. Haemae. 114,536; May 2.
Dress. R. Caine. 114,610; May 2.
Dress. A. Engel. 114,582–3; May 2.
Dress. R. Feintuck. 114,584; May 2.
Dress. H. M. Harris. 114,616; May 2.
Dress. M. Stone. 114,604; May 2.
Dress. S. Windwer. 114,607; May 2.
Dress and slip ensemble. P. Byrnes. 114,627; May 2.
Dress ensemble. C. Andre-Ani. 114,581; May 2.
Dress ensemble. L. Jacobson. 114,589–90; May 2.
Dress ensemble. L. L. Kashine. 114,591; May 2.
Dress ensemble. H. Lentini. 114,595; May 2.
Dress ensemble. H. Presser. 114,599–600; May 2.
Drive unit for conveyers or the like, Pivotal. S. I. Bousman. 114,575; May 2.
Fabric or similar article, Embroidered textile. M. Leff. 114,594; May 2.
Fabric or similar article, Textile. M. Turpan. 114,605; May 2.
Fabric, Textile. T. Emmerich. 114,615; May 2.
Fabric, Textile. W. Hoegger. 114,617–22; May 2.
Fabric, Textile. S. G. Krupka. 114,592; May 2.
Fabric, Textile. A. Levy. 114,596; May 2.
Faucet and spray fixture for sinks, Combined. J. R. Morgan. 114,556; May 2.
Game board. W. A. Fuld. 114,534; May 2.
Game piece. B. Lewis. 114,543–7; May 2.
Gown, Wedding. M. J. Shapiro. 114,602; May 2.
Guide for an electric iron cord. F. M. Pinska. 114,559; May 2.
Handbag, Over-the-shoulder. L. J. Berman. 114,608; May 2.
Hat. J. S. Degnon. 114,614; May 2.
Hat. C. Rothenberg. 114,625; May 2.
Holder for necktie holders or the like, Character bearing. L. W. Shields. 114,580; May 2.
Housing, Pneumatic pump. L. E. Russell. 114,561; May 2.
Lamp, Reading. S. W. Rosenthal. 114,624; May 2.
Marker, Grave. F. F. Florig. 114,576; May 2.
Metal for metal containers, Lithographed sheet. E. E. Engstrom. 114,531–2; May 2.
Monoplane, High wing cantilever. J. G. Taylor, R. C. Wilson, and O. A. Swanson. 114,626; May 2.
Motor for boats, Outboard. J. R. Morgan. 114,597; May 2.
Pencil. F. C. Dell, E. Petau, and G. W. Tammen. 114,529–30; May 2.
Photocopying machine, Portable. R. H. Fullerton. 114,585; May 2.
Plate or similar article. J. T. Wigley. 114,573; May 2.
Refrigerator and cooking range, Combination. E. F. G. Hohs. 114,538; May 2.
Refrigerator or the like, Bottle dispensing. B. M. Vise. 114,569; May 2.
Rod, Curtain. P. B. Stratton. 114,564; May 2.
Rug cleaning device or similar article. S. Rosen and B. M. Hulsh. 114,601; May 2.
Saucepan or similar article. E. G. Grundstrom. 114,535; May 2.
Scale. B. S. Watling. 114,572; May 2.
Shaker, Condiment. F. J. Rusting. 114,562; May 2.
Shoe. R. Gruensfelder. 114,587; May 2.
Shoe. B. L. Wales. 114,606; May 2.
Sofa or similar article. C. Stoll. 114,563; May 2.
Spray gun. H. A. Roselund. 114,560; May 2.
Stand, Soldering iron. L. P. Young. 114,574; May 2.
Stocking. S. I. Burd. 114,609; May 2.
Tank, Elevated. G. T. Horton. 114,539–40; May 2.
Tire. R. H. Burgess. 114,528; May 2.
Toy gun. A. T. Linney. 114,548; May 2.
Tube or similar article, Thermoplastic. G. W. Tammen. 114,566–7; May 2.
Tumbler. J. Viatour. 114,568; May 2.
Vehicle, Automotive. T. F. King. 114,579; May 2.
Vehicle, Juvenile. P. S. Beshore. 114,526; May 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive, Coated. J. F. A. Davis. 2,156,492; May 2.
Absorbent and abrasive fabric. S. M. Smith, Jr. 2,156,549; May 2.
Absorber for refrigerating systems. E. Babcock. 2,156,908; May 2.
Absorber for refrigerating systems. C. C. Coons. 2,156,912; May 2.
Absorber for refrigerating systems. A. D. Siedle. 2,156,925–6; May 2.
Acid, Preparing octadecadiene. R. Priester. 2,156,737; May 2.
Acids, Concentration of aliphatic. H. E. Martin. 2,156,345–6; May 2.
Adhesive tape. L. W. Geller. 2,156,335; May 2.
Air brake. C. A. Campbell. 2,156,720; May 2.
Air conditioning apparatus. F. C. Seeger. 2,156,609; May 2.
Air conditioning control. H. L. Smith, Jr., and L. N. Jones. 2,156,317; May 2.
Air conditioning unit and hair drier, Combined. J. R. Zwickl. 2,157,047; May 2.
Air filter washer. C. Lester. 2,156,594; May 2.
Aircraft. G. V. Lachmann. 2,156,994; May 2.
Airplanes, Lateral control surfaces of. H. Rivière. 2,156,403; May 2.
Airship. W. Wiese. 2,157,045; May 2.
Alarm, Fire. T. Ślusarz. 2,156,437; May 2.
Aliphatic compounds, Concentration of. H. E. Martin. 2,156,344; May 2.
Alloy: *See*—
Dental casting alloy.
Alloys, Austenitic chromium nickel steel. P. Schafmeister. 2,157,060; May 2.
Alloys, Copper zinc. W. J. Müller and M. Niessner. 2,156,348; May 2.
Alloys, Making lead. H. S. Cooper. 2,156,802; May 2.
Amides and their production, Cyclic. A. L. Lippert and E. E. Reid. 2,156,300; May 2.
Amides, Purification of carboxylic acid. H. Slagh. 2,156,642; May 2.
Ammonium hydrogen fluoride, Manufacture of. A. R. Bozarth. 2,156,273; May 2.
Amplifier device. R. Urtel. 2,156,650; May 2.
Amplitude contractor and expander. H. Shore. 2,156,658; May 2.
Amyl-ortho-cresol, Tertiary. G. W. Raiziss and L. W. Clemence. 2,157,014; May 2.
Apparatus for tracing curved lines. D. J. Witherspoon. 2,156,417; May 2.
Applicator for vibratory massagers. O. T. Buffalow. 2,156,839; May 2.
Apron, Stay-bib bonnet. H. M. Hall. 2,156,495; May 2.
Arc lamp. A. Stahn. 2,156,360; May 2.
Article, Welded. F. Leitner. 2,156,298; May 2.
Articles, Apparatus for forming composite metal. W. E. McCullough. 2,156,998; May 2.
Articles, Manufacturing. A. J. Hixon. 2,156,692; May 2.
Articles to alloy constituents metals, Treating metal. C. G. Fink and P. Deren. 2,156,262; May 2.
Ashtray and holder, Cigarette. H. P. Ryan. 2,156,738; May 2.
Ashtray with extinguisher for cigarettes or cigars. F. Vajda. 2,156,906; May 2.
Attachment assembly for liquid coolers. R. Berry. 2,156,834; May 2.
Audiometer. W. H. Huth and J. R. Cubert. 2,156,945; May 2.
Automobile accessory. C. A. McDowell and L. J. Smith. 2,156,432; May 2.
Automobile, Flying. T. B. Holliday. 2,156,288; May 2.
Automobile-type lamp. R. W. Johnson. 2,156,947; May 2.
Bag: *See*—
Striking bag.
Bag closing unit, Filled. N. V. Christensen. 2,156,526; May 2.
Bail for baskets or hampers, Detachable. F. J. Brown. 2,156,274; May 2.
Balls, Method and apparatus for winding. F. Honig. 2,156,896; May 2.
Bar: *See*—
Cell bar.
Bar mill, Roller and breast. C. Carruthers and J. R. Torrance. 2,156,619; May 2.
Bars and the like, Device for supporting. W. T. Walker. 2,156,748; May 2.
Battery electrode element and making the same. A. I. Eddy. 2,157,072; May 2.
Battery grid casting and trimming machine, Automatic. G. A. Donath. 2,156,379; May 2.
Battery terminal connector. W. S. Thomas. 2,156,411; May 2.
Bearing: *See*—
Roller side bearing.
Bearing block or pedestal for marine vessels. A. Groote. 2,156,848; May 2.
Bed. T. I. Means. 2,156,507; May 2.
Bed construction. W. E. Wunderlich. 2,157,064; May 2.
Bed, Trailer. H. W. Hafer. 2,156,850; May 2.
Bell. G. R. Eaton. 2,156,842; May 2.
Belt, Apparel. J. R. Craighead. 2,156,373; May 2.
Belt, Driving. E. Siegling. 2,157,061; May 2.
Billfold. I. Schwartz. 2,156,875; May 2.
Binder. J. Mandel. 2,157,080; May 2.
Bit: *See*—
Drill bit.
Bits, Making cutter. F. L. Fulke. 2,156,725; May 2.
Blank for and method of manufacturing steel pens. S. E. Longmaid. 2,156,302; May 2.
Block: *See*—
Building block. Polishing block.
Blocks in frames, Securing structural. S. F. Cox. 2,156,678; May 2.
Board: *See*—
Panel board.
Boards of composition material, Method of and apparatus for treating. J. Ferla. 2,156,383; May 2.
Boards, Treating composition. J. Ferla. 2,156,382; May 2.
Bodies by the local application of heat, Apparatus for hardening metallic. W. E. Sykes. 2,156,884; May 2.
Boiler. J. M. Shimer. 2,156,610; May 2.
Bolt, Electromagnetic latch. I. Goldfinger. 2,156,387; May 2.
Booster embalming tube. A. V. Bowmer. 2,156,522; May 2.
Boring machine gauge. P. Jeschor. 2,156,500; May 2.
Bottle cap. M. C. Atwood. 2,156,258; May 2.
Bottle closure. P. Kleid. 2,156,654; May 2.
Bottle sealing apparatus. E. Pommer. 2,157,013; May 2.
Bowl, Child's feeding. G. Paul. 2,156,351; May 2.
Box: *See*—
Mail box. Pitcher's box.
Multishuttle box.
Box. C. A. Stopper. 2,157,062; May 2.
Box and making same, Switch. A. W. Thomasen. 2,156,644; May 2.
Brace, Cross-arm. C. A. Booker and A. E. Hill. 2,156,448; May 2.
Brace, Double cross-arm. C. A. Booker and A. E. Hill. 2,156,447; May 2.
Brace for track type tractors, Torque. E. A. Johnston, C. R. Rogers, and W. O. Bechman. 2,156,565; May 2.
Bracelet construction. E. Haeffner. 2,157,076; May 2.
Bracket for supporting a direction indicator or the like. P. P. Gutierrez. 2,156,849; May 2.
Brake: *See*—
Air brake.
Brake control mechanism. W. R. Freeman. 2,156,782; May 2.
Brake mechanism. W. G. Ransom. 2,157,015; May 2.
Brake operating device, Vacuum controlled emergency. H. Hubbell, Jr. 2,156,290; May 2.
Brake system. H. K. Weihe. 2,156,415; May 2.
Brake system, Compression. W. H. Bachmann. 2,156,560; May 2.
Braking mechanism. S. Schnell. 2,156,794; May 2.
Bridge score register. N. McMurdo. 2,156,539; May 2.
Broaching machine, Rotary. W. A. Hart. 2,156,941; May 2.
Broiler, Electric. E. C. Lucas and A. T. Pappas. 2,156,860; May 2.
Brush back, Rotary. J. Sassano. 2,156,514; May 2.
Buckle. A. E. Rineer and H. G. Dybvig. 2,156,870; May 2.
Buckle. H. P. Troendly. 2,157,037; May 2.
Buckle, Belt. B. R Zeman. 2,156,647; May 2.
Building block, Glass. H. L. Eastus. 2,156,623; May 2.
Building materials or the like, Method and apparatus for making. N. P. Harshberger. 2,156,286; May 2.
Building unit and manufacture thereof. L. Kirschbraun. 2,156,566; May 2.
Bulkhead door. J. J. Mascuch and A. S. Gorshkoff. 2,156,635; May 2.
Burial receptacle. R. L. Taylor. 2,156,552; May 2.
Burner: *See*—
Gas burner. Oil burner.
Bust support. V. F. Kemp. 2,156,478; May 2.
Cabinet: *See*—
Meter cabinet. Vapor bath cabinet.
Steam bath cabinet. Writing cabinet.
Cabinet domestic appliance. J. T. Hume and C. Van Westrum. 2,156,759; May 2.

Cable, Method of and apparatus for making. W. Morsing. 2,156,952; May 2.
Cable, Splicing a. G. A. Seeley. 2,156,772; May 2.
Cables, Apparatus for manufacturing electric. E. P. Barrett. 2,156,934; May 2.
Calcium arsenate, Manufacturing. A. R. Lindblad and A. G. P. Palén. 2,156,595; May 2.
Camera, Electronic. R. J. Kautz. 2,156,813; May 2.
Camera focusing device. S. Mendelsohn and L. Hartman. 2,156,433; May 2.
Can filling machine. H. Mondloch. 2,156,951; May 2.
Cap: *See*—
  Bottle cap.
Car body, Closed top. O. C. Duryea. 2,156,778; May 2.
Carbon dioxide, System for charging. H. B. Rudd. 2,157,019; May 2.
Carboxylates and making same, Phenyl mercuric aliphatic hydroxy. R. P. Perkins. 2,157,009; May 2.
Carburetor for internal combustion engines. O. Henning. 2,156,390; May 2.
Card game indicator. H. E. Kinnee. 2,156,856; May 2.
Card, Record. L. N. Brown. 2,157,052; May 2.
Card system. N. I. Stark. 2,156,551; May 2.
Carton. J. W. McNeil. 2,156,999; May 2.
Carton and the sealing thereof. V. H. and N. V. Watson. 2,156,441; May 2.
Case: *See*—
  Fly-book case.
  Musical instrument carrying case.
Casket-top holder. J. W. Roberts. 2,156,872; May 2.
Catalysts, Manufacture of gel-type metallic oxide. R. F. Ruthruff. 2,156,903–4; May 2.
Cathode discharge tube, Hot. H. Daene. 2,156,752; May 2.
Cathode ray device. G. N. Ogloblinsky. 2,156,769; May 2.
Cathode ray tube. F. Schröter and M. Knoll. 2,156,435; May 2.
Cathode rays, Arrangement for reflecting of. M. Knoll. 2,156,915; May 2.
Cell bar. F. J. Bayon. 2,156,579; May 2.
Cellar lubricator. J. De Matteo. 2,156,377; May 2.
Cellulose ethers, Preparation of. F. C. Peterson and A. J. Barry. 2,157,083; May 2.
Cellulosic structures, Method and apparatus for the production of. R. Picard. 2,156,923; May 2.
Cement fiber product. C. H. Schuh. 2,156,311; May 2.
Cement-fibrous products, Manufacturing. C. H. Schuh. 2,156,308; May 2.
Chain cutting machine for use in mining coal and other minerals, Endless. O. F. Lewis. 2,156,732; May 2.
Charging machine. A. Frick. 2,156,386; May 2.
Chart for automatic recording instruments, Recording. E. W. Hoy. 2,156,289; May 2.
Choke, Bottom hole control. H. U. Garrett. 2,156,429; May 2.
Cigar machine. J. F. Halstead. 2,156,284; May 2.
Cigar making machine. C. F. Röber. 2,156,922; May 2.
Cigar tips, Apparatus for forming. R. O. F. Ebert. 2,156,780; May 2.
Cigarettes, Manufacture of. W. E. Molins. 2,156,600; May 2.
Circuit: *See*—
  Stabilizing circuit.
Circuit, Apparatus for interrupting an electric. F. H. Cole. 2,156,450; May 2.
Circuit breaker. J. G. Jackson and W. T. Allen. 2,156,760–1; May 2.
Circuit breaker. J. G. Jackson and R. Mueller. 2,156,762; May 2.
Circuit breaker, Electrical. O. Maseng. 2,156,861; May 2.
Circuit closer. W. A. Specht. 2,156,882; May 2.
Circuit closing means for loom stop mechanism. R. Stewart. 2,156,408; May 2.
Circuit controlling device, Electric. J. Duggan. 2,156,722; May 2.
Circuit for ultra high frequency amplifiers, Resonant. J. Evans. 2,156,261; May 2.
Circuits, Apparatus for shunting of track. H. A. Thompson. 2,156,710; May 2.
Circuits, Electric discharge device. L. A. Hyland. 2,156,534; May 2.
Circuits, Electric valve. B. D. Bedford. 2,156,959; May 2.
Circuits, Switch control. C. M. Hines. 2,156,691; May 2.
Circuits, Timing. C. S. Knowlton. 2,156,630; May 2.
Circuits, Variable band-pass filter. J. J. Lamb. 2,156,786; May 2.
Clamping device, Paper. W. H. Sinclair. 2,156,404; May 2.
Cleaner: *See*—
  Fitting cleaner.
  Vacuum cleaner.
Cleaning apparatus. C. O. Brownfield. 2,156,370; May 2.
Clip applying tool, Paper. H. Skrebba. 2,156,743; May 2.
Clip for match and cigarette packages, Connecting. F. M. Sprague. 2,156,318; May 2.
Clip retaining device for bead trim, Spring. J. H. Van Uum. 2,156,669; May 2.
Closure and container. E. M. Enkur. 2,156,585; May 2.
Closure element for canisters and like vessels. T. H. Bradbury. 2,156,837; May 2.
Cloth-cutting machine. W. Bangser. 2,156,798; May 2.
Clothes drier. J. W. Jensen. 2,156,784; May 2.
Clutch. C. G. Strandlund. 2,156,362; May 2.
Clutch assembly, Hydraulic. A. Kuhns. 2,156,785; May 2.
Clutch control mechanism. H. W. Price. 2,156,305; May 2.
Clutch system for motor vehicles, Automatic. C. L. Hopkins. 2,156,589; May 2.
Coal and the like, Apparatus for gravitationally separating and cleaning. E. Stump. 2,156,575; May 2.
Coil-handling apparatus. C. J. Klein. 2,156,695; May 2.
Collar construction. H. J. Seman. 2,156,704; May 2.
Colors and preparing them, Blue pigment. E. Korinth and G. Meder. 2,156,727; May 2.
Colostomy pocket and retaining belt, Removable. E. N. Bowman. 2,156,425; May 2.
Comb, Animal. G. A. Wikander. 2,156,416; May 2.
Compass, Radio. G. G. Kruesi. 2,156,297; May 2.
Composition of matter and making the same. J. N. Kuzmick. 2,156,431; May 2.
Compressed products, Producing. C. Schuh. 2,156,309; May 2.
Compression testing apparatus. E. Simpson, A. J. Stubbs, and T. Norcross. 2,156,877; May 2.
Compressor-unloader structure. H. C. Heller. 2,156,943; May 2.
Computing device. J. W. Lee. 2,156,568; May 2.
Concentrator for hygroscopic solutions. H. J. Kaufman. 2,156,293; May 2.
Condenser: *See*—
  Variable condenser.
Condiment container. C. Vitek. 2,156,554; May 2.
Conductor terminal. M. Offner. 2,157,007; May 2.
Confection and novelty toy. J. F. Robb. 2,156,482; May 2.
Connecting means, Screw-threaded. W. Heyner and H. Henkel. 2,156,338; May 2.
Connecting rod, Collapsible. C. C. Smith. 2,156,548; May 2.
Connector: *See*—
  Battery terminal connector.
Conservatory, Adjustable window. J. Steinmetz. 2,156,746; May 2.
Container: *See*—
  Condiment container.
  Dispensing container.
  Freight container.
  Lunch container.
Container capping mechanism. T. Petersen. 2,156,700; May 2.
Container for storing fluids, such as gas and liquids, Spherical. W. Pechstein. 2,156,400; May 2.
Containers, Method and apparatus for sealing capped. C. W. Goodwin and R. J. Daniels. 2,156,811; May 2.
Containers, Method of and mechanism for sealing capped. K. Clark. 2,156,801; May 2.
Control apparatus for vehicles. E. Fischel. 2,156,976; May 2.
Control device for a radiometeorograph signal transmitter. W. H. Reynolds. 2,156,868; May 2.
Control system, Electrical. B. E. Miller. 2,156,636; May 2.
Conveyer. A. D. Sinden. 2,156,878; May 2.
Conveyer, Cable. W. B. Ranney. 2,156,353; May 2.
Conveyer, Hog-head. B. J. Sadoff. 2,156,771; May 2.
Cooler and conditioner, Air. R. C. Slater. 2,156,879; May 2.
Cooling apparatus. L. J. Wester. 2,156,888; May 2.
Cord release, Resilient. J. K. Walter. 2,156,467; May 2.
Cotton sampler apparatus. G. E. Gaus and G. N. Franks. 2,156,893; May 2.
Cotton sampler for cotton condensers. G. E. Gaus and V. L. Stedronsky. 2,156,894; May 2.
Coupling: *See*—
  Pipe coupling.
  Water-cooled coupling.
Coupling device. R. A. Bell. 2,156,272; May 2.
Cover feeding and folding mechanism for booking machines. C. F. Wright. 2,156,558; May 2.
Covers or containers, Method and apparatus for making protective. J. R. Gammeter. 2,157,054; May 2.
Covering, Protective. M. W. Freeman. 2,156,530; May 2.
Cow tail holder. J. Van Der Meulen. 2,156,413; May 2.
Creel for yarn packages. W. W. Edwards. 2,157,073; May 2.
Crimping device. P. Esselmann, K. Kösslinger, and P. Saffert. 2,156,723; May 2.
Culinary device. J. A. Waller. 2,156,645; May 2.
Cultivator drag. G. C. Krause. 2,156,729; May 2.
Cup. M. Sidon. 2,156,574; May 2.
Curling apparatus. R. Grabner. 2,156,687; May 2.
Curling iron, Hair. H. Wagner. 2,156,576; May 2.
Current and voltage responsive apparatus. W. Oesinghaus. 2,157,006; May 2.
Current converter system, Direct. R. H. Sullivan. 2,156,708; May 2.
Current interrupting system. J. J. Taylor. 2,156,410; May 2.
Current transmission, System of carrier. J. M. D. Dekker. 2,156,278; May 2.
Cushion for beds, chairs, or the like, Resilient. T. J. Litle, Jr. 2,156,664; May 2.
Cushion scrubbing machine. V. C. Snyder. 2,156,881; May 2.

Cushion support. J. S. Loewus. 2,156,301; May 2.
Cushioning device for railroad cars. O. C. Duryea. 2,156,779; May 2.
Cut-off machine. P. Tishken. 2,156,323; May 2.
Cutter mounting. A. C. Catland. 2,156,676; May 2.
Cylinder sleeves, Apparatus for producing. A. G. Anderson. 2,156,521; May 2.
Damper, Velocity control. M. O. Snediker. 2,157,025; May 2.
Delivery mechanism, Rotary. C. A. Harless. 2,156,454; May 2.
Dental casting alloy. C. J. Grossman. 2,156,757; May 2.
Derivatives of a hydroxynaphthoic acid. W. Schneider. 2,156,821; May 2.
Desk stand. J. L. Coen. 2,156,276; May 2.
Detachable support. R. S. Sanford. 2,157,020; May 2.
Detector. P. T. Farnsworth. 2,156,807; May 2.
Detector, Amplifying. H. Bendel and A. Schmid. 2,156,649; May 2.
Detergent and wetting compositions. W. S. Martin. 2,156,996; May 2.
Device for conducting the thread in winding machines. H. Dersen. 2,156,472; May 2.
Device for serving subscribers with newspapers. R. D. Landis. 2,156,858; May 2.
Dextrine in a heated liquid medium, Manufacture of. H. E. Bode. 2,156,488; May 2.
Diagnostic and therapeutic apparatus. G. Lyford. 2,156,764; May 2.
Dial. J. E. Chambers. 2,156,490; May 2.
Diffuser for centrifugal compressors. S. A. Moss. 2,157,002; May 2.
Digester apparatus. W. H. Shipman. 2,156,643; May 2.
Discharge apparatus, Electric. E. H. Vedder. 2,156,886; May 2.
Dishwashing machine. J. H. Klinger. 2,156,949; May 2.
Disk suitable for use in manufacturing circular articles, Aluminum. K. Takeda. 2,156,439; May 2.
Dispenser. O. B. Clark. 2,156,527; May 2.
Dispensing and packaging device for fluids. M. C. Schwab. 2,156,313; May 2.
Dispensing container. V. F. Volk. 2,156,366; May 2.
Display device. V. L. Vendope. 2,156,553; May 2.
Distribution mechanism for machines of the piston type and especially steam engines. J. Bugatti. 2,156,470; May 2.
Doll, Novelty. E. G. Schaeffer. 2,156,573; May 2.
Door: *See*—
  Bulkhead door.
Door holding and door control mechanism. R. I. Schonitzer. 2,156,874; May 2.
Door mechanism, Elevator. L. H. Kiesling. 2,156,295; May 2.
Door operating mechanism. F. Lichtfeldt. 2,156,950; May 2.
Door operator. F. W. Hall. 2,156,473; May 2.
Doubletree. C. Steffen. 2,156,883; May 2.
Draft control, Oil burner suction. R. T. Smith. 2,156,359; May 2.
Dresser, Convertible. O. Thorsen. 2,156,825; May 2.
Drier: *See*—
  Clothes drier.
  Pneumatic circulation drier.
Drill bit. M. Hokanson. 2,156,287; May 2.
Drip catcher for containers. I. E. Walker. 2,156,747; May 2.
Drive mechanism, Belt. T. Petersen. 2,156,701; May 2.
Drive mechanism for tandem wheel vehicles. J. G. Tingle. 2,156,412; May 2.
Drive, Releasable propeller. F. W. Caldwell. 2,156,750; May 2.
Driving device and controlling the flow of fluids therein. J. L. Herold. 2,156,497; May 2.
Dyestuffs and their manufacture, Monoazo. A. Krebser. 2,156,593; May 2.
Dyestuff insoluble in water and fiber dyed therewith, Azo. M. Lange and T. Jacobs. 2,156,731; May 2.
Dyestuffs of the anthraquinone series. C. Weinand. 2,156,887; May 2.
Dyestuffs, Polyazo. B. Mayer and E. A. Henzi. 2,156,597; May 2.
Dyestuffs, Production of azo. B. v. Bock. 2,156,446; May 2.
Dyestuffs, Production of polymethin. O. F. Schulz. 2,156,464; May 2.
Dynamo-electric machine. J. C. Aydelott. 2,156,958; May 2.
Dynamo-electric machine. A. P. Wood. 2,157,046; May 2.
Dynamo, Ocean wave. A. B. Snider. 2,156,550; May 2.
Earpiece. N. A. Kurman. 2,156,632; May 2.
Educational device. J. J. Ray. 2,157,058; May 2.
Electric discharge device. L. E. Flory and G. A. Morton. 2,156,625; May 2.
Electric discharge device. O. Krenzien. 2,156,631; May 2.
Electric lamp. C. Birdseye. 2,157,051; May 2.
Electric light mounting. L. Lander. 2,156,787; May 2.
Electric switch. V. Grosse. 2,156,388; May 2.
Electric switch. R. Popp. 2,156,902; May 2.
Electric tumbler switch. G. A. Johnson. 2,156,989; May 2.
Electric wave filter. W. S. Percival. 2,156,656; May 2.
Electrical relay. A. W. Fisher and B. Mishelevich. 2,156,684; May 2.
Electrical relay. N. C. Shaw. 2,156,685; May 2.
Electrical testing instrument. W. R. Steele. 2,156,319; May 2.
Electrical winding. H. O. Stephens. 2,157,031; May 2.
Electrode system. W. C. van Geel. 2,156,660; May 2.
Electrolytic apparatus operated under pressure, Insulating. H. Niederreither. 2,157,090; May 2.
Electron multiplier. E. G. Linder. 2,156,264; May 2.
Electronic device. H. F. Dalpayrat. 2,156,650; May 2.
Engine: *See*—
  Internal combustion engine.
  Rotary valve engine.
Engine. E. T. Vincent. 2,156,774; May 2.
Engine starting apparatus. R. M. Nardone. 2,156,667; May 2.
Engine starting mechanism. R. M. Nardone. 2,156,602; May 2.
Engine starting mechanism. R. M. Nardone. 2,156,603; May 2.
Engraving or reproducing machine. H. W. Waldord and E. May 2,156,269; May 2.
Equipment pertaining to skis. J. Refsland. 2,156,867; May 2.
Esters esterified in 3-position and making same, Sstradiol. K. Miescher and C. Scholz. 2,156,599; May 2.
Ethers of meta-phenylphenol, Alkyl. G. H. Coleman and G. V. Moore. 2,157,071; May 2.
Ethers of polyhydric alcohols, Secondary. T. W. Evans and E. F. Bullard. 2,156,724; May 2.
Ethylene oxide, Making and recovering. H. Langwell and H. M. Stanley. 2,156,341; May 2.
Evaporator plate for refrigerating systems, Embossed tube. W. Raskin. 2,156,544; May 2.
Exhaust muffling means. G. C. Starkweather and L. L. Haas. 2,157,030; May 2.
Expansible chamber motor. W. H. Wineman. 2,156,326; May 2.
Explosive. G. B. Hatch. 2,156,942; May 2.
Explosive mechanism. R. M. Nardone. 2,156,666; May 2.
Exposure control mechanism, Combination time lapse and photoelectric. C. P. Veber. 2,156,440; May 2.
Extension device. W. A. Davis. 2,156,973; May 2.
Extrusion mold. J. W. Macklin. 2,156,396; May 2.
Fabric: *See*—
  Absorbent and abrasive fabric.
Farm machine, Combination. M. Campbell. 2,156,581; May 2.
Fastener: *See*—
  Metal fastener.
  Sliding clasp fastener.
Fastener. C. G. Olson. 2,156,350; May 2.
Fastening device. D. M. Dunwoodie, Sr. 2,156,683; May 2.
Fat, Continuous countercurrent hydrolysis of. V. Mills. 2,156,863; May 2.
Feathers and similar stuffing material in pillows, cushions, and the like, Treatment of. T. Würinger. 2,156,890; May 2.
Feeder: *See*—
  Sheet feeder.
Felt. T. Milnes. 2,157,082; May 2.
Felt manufacture. J. Kleine and W. Brennecke. 2,156,455; May 2.
Fiber pulp refiner. D. M. Sutherland, Jr. 2,156,321; May 2.
Fiber pulp refiner. D. M. Sutherland, Jr. 2,156,320; May 2.
Fibrous sheet, Coated. E. Gebauer-Fuelnegg and E. W. Moffett. 2,156,755; May 2.
Filing device for use in vertical filing systems. J. H. Page. 2,156,955; May 2.
Filling machine, Automatic. W. J. Beck. 2,156,271; May 2.
Filling machine, Weight controlled. R. J. Emmons. 2,156,280; May 2.
Filter: *See*—
  Electric wave filter.
  Vacuum cleaner filter.
Filter and cartridge, Oil. H. B. Beck. 2,156,329; May 2.
Filter beds, Cleaning of. G. F. Hurt. 2,156,291; May 2.
Fireplace closure. R. R. Benedict. 2,156,799; May 2.
Fishing apparatus. H. B. Mussina. 2,157,003; May 2.
Fitting cleaner. H. J. Smith. 2,156,744; May 2.
Fixture, Wrapping paper. F. H. Lawton. 2,156,502; May 2.
Flame arrester safety device. F. G. D. Muller. 2,156,509; May 2.
Flange unit, Barrel or drum. E. G. Melrath. 2,156,540; May 2.
Flashlight. W. R. Kopp. 2,156,916; May 2.
Floor construction. R. Hopewell. 2,156,588; May 2.
Floor polishing and sanding device. J. D. Toro and M. Forschein. 2,156,824; May 2.
Fluids, Cleaning oil well drilling. R. and M. F. Cross. 2,156,333; May 2.
Fly-book case. G. D. Schweigert. 2,156,740; May 2.
Folder, Advertising. M. B. Levy. 2,156,815; May 2.
Form, Bust. J. B. Pitcher. 2,156,512; May 2.
Frame: *See*—
  Vehicle frame.
Freight container. B. F. Fitch. 2,156,283; May 2.
Freight transferring apparatus. B. F. Fitch. 2,156,282; May 2.
Friction bodies. K. Wolf and H. Scheuermann. 2,156,828; May 2.

Fruit, Method and apparatus for packaging. H. A. S. Read, Jr. 2,156,434; May 2.
Fuel feed device. G. R. Ericson. 2,157,074; May 2.
Fuel supply system for internal combustion engines. P. S. Tice. 2,157,034; May 2.
Furnace: *See*—
Metal vaporizing furnace.
Furnace control mechanism. C. S. Andersen. 2,156,830; May 2.
Fuse, Percussion. P. E. J. Denoix. 2,156,471; May 2.
Game. C. D. Shannon. 2,157,023; May 2.
Garment manufacture. P. Segal. 2,156,640; May 2.
Gas burner. P. S. Harper. 2,156,533; May 2.
Gas heater. J. O. Bailey. 2,156,423; May 2.
Gas pressure regulator. L. W. Stettner. 2,156,823; May 2.
Gas testing. M. G. Jacobson. 2,156,693; May 2.
Gauge: *See*—
Boring machine gauge.
Gear: *See*—
Retractable landing gear.
Glass and its manufacture, Multicellular. B. Long. 2,156,457; May 2.
Glass cutting apparatus. J. Gregory. 2,156,847; May 2.
Glass cutting apparatus. W. Owen. 2,156,864; May 2.
Glass, Making laminated safety. B. J. Dennison. 2,156,680; May 2.
Glass sheets, Process and apparatus for separating laminated. F. W. Hall. 2,156,688; May 2.
Glass, Spinning. C. G. Harford and E. Stafford. 2,156,982; May 2.
Glass surfacing table, Plate. W. Owen. 2,156,699; May 2.
Glass, Treating laminated. R. G. Whittemore. 2,156,714; May 2.
Glassware, Making. L. Wohinc. 2,156,613; May 2.
Glue to sheet material, Mechanism for cutting and applying. W. C. Dorsch. 2,156,804; May 2.
Glycollate and making it, Phenylmercuric. R. P. Perkins. 2,157,010; May 2.
Grader, Corn. E. A. Beckwith. 2,156,716; May 2.
Gramophone and like record-playing device, Automatic. R. Wilkinson. 2,156,612; May. 2.
Grate for multiple retort underfeed stokers, Extension. T. G. W. Watson and J. M. Ferguson. 2,156,646; May 2.
Green, Chromium hydroxide. A. Grasshoff and W. König. 2,156,451; May 2.
Grill, Electric. F. C. Wilson. 2,156,557; May 2.
Grinding machine. A. P. Burns. 2,156,970; May 2.
Grinding machine. A. E. Hamilton and L. M. Stempel. 2,156,453; May 2.
Grinding machine, Centerless. R. H. Cramer. 2,156,562; May 2.
Grinding mill, Roller. C. Carruthers. 2,156,620; May 2.
Grinding mill, Roller and breast. C. Carruthers. 2,156,618; May 2.
Ground fitting. S. W. Borden. 2,156,965; May 2.
Guard and side slack bracing for crate-loaded cars, Doorway. H. C. Pierce. 2,156,866; May 2.
Gun, Air. J. P. Appleby. 2,156,797; May 2.
Gun, Nonrecoil. G. W. L. Prettyman. 2,156,605; May 2.
Gun, Spray. P. W. Hovey and C. L. Thompson. 2,156,783; May 2.
Hair, Apparatus for curling. S. F. Kayn and D. D. Whyte. 2,156,948; May 2.
Hair remover, Superfluous. L. D. Bendure. 2,156,717; May 2.
Hair, Tensioning. R. W. Flinn. 2,156,808; May 2.
Hanger: *See*—
Pipe hanger.
Hanger for automobiles, Clothes. C. E. Morley. 2,157,001; May 2.
Hanger for flexible loading spouts. O. J. Hatteberg. 2,156,587; May 2.
Heat exchange system. W. W. Timmis and W. K. Walker. 2,156,322; May 2.
Heat transfer units, Making. H. F. Maynes. 2,156,538; May 2.
Heater: *See*—
Gas heater. Windshield heater.
Heating device. T. F. Peterson. 2,156,352; May. 2.
Heel, Cushion. C. Z. Litschert. 2,156,342; May 2.
Helicopter. G. de Bothezat. 2,156,334; May 2.
Hexene from divinylacetylene, Preparation of. W. S. Calcott, A. S. Carter, and F. B. Downing. 2,156,936; May 2.
High pressure arc lamp. Z. Bay. 2,156,369; May 2.
Hinge, Concealed. J. Soss. 2,157,027; May 2.
Holder: *See*—
Casket-top holder. Soap holder.
Cow tail holder.
Holder and bookmark, Combined leaf. O. L. Hermann. 2,156,944; May 2.
Holder and mounting hooks thereon, Belt hook. A. Bray. 2,156,966; May 2.
Holding and supporting member. M. P. Chaplin. 2,156,583; May 2.
Hook for receptacle covers. A. H. Gerhardt. 2,156,756; May 2.
Hormone, Preparation of a slowly absorbed antidiabetic. L. Rosenthal and J. Kamlet. 2,156,545; May 2.
Horn, sounder, Emergency automobile. M. M. Collins. 2,156,751; May 2.
Horticulture shading device. H. H. A. Heuer. 2,156,986; May 2.
Hose construction. R. C. Pierce. 2,156,899; May 2.
Hosiery and making it. E. Ruckel. 2,156,657; May 2.
Hot top. H. B. Groninger. 2,156,980; May 2.
House construction. E. A. Corbin, Jr. 2,156,277; May 2.
Housing for electrical switches, Enclosed. R. H. Olley. 2,156,572; May 2.
Hub construction, Two-piece. H. A. Husted. 2,156,476; May 2.
Hydraulic jack. E. M. Pfauser. 2,156,543; May 2.
Ice cutting apparatus. C. W. Ayers. 2,156,832; May 2.
Igniter coil manufacture. H. W. Bilger and K. T. Kessel. 2,157,050; May 2.
Illuminating device. W. B. Schulte. 2,156,462–3; May 2.
Illuminating device. J. S. Zook. 2,156,443; May 2.
Impulses to a system, Device for imparting. R. R. R. Sarazin. 2,156,484; May 2.
Indicator: *See*—
Card game indicator.
Inking device. H. E. Haase. 2,156,758; May 2.
Insert for boots and shoes. H. Sochor. 2,157,026; May 2.
Interlocking control system. D. V. Waters. 2,157,043; May 2.
Interlocking system for railroads. J. I. Vaughn. 2,156,671; May 2.
Internal combustion engine. W. Phillips. 2,156,304; May 2.
Internal combustion engine. K. Zinner. 2,156,327; May 2.
Internal combustion engine, Two-cycle. M. Mallory. 2,156,665; May 2.
Iron: *See*—
Curling iron.
Iron by direct reduction, Manufacturing. K. Kusaka and H. Ashida. 2,156,263; May 2.
Ironer. W. E. Stilwell, Jr. 2,157,086; May 2.
Jack: *See*—
Hydraulic jack.
Jack. E. Wallace. 2,156,930; May 2.
Jack for automobiles, Turning table. A. Carlini. 2,156,582; May 2.
Jail or the like. J. H. Lowe. 2,156,859; May 2.
Jewelry. A. R. Cote. 2,156,972; May 2.
Joint: *See*—
Pipe joint. Swivel joint.
Rail joint.
Ketones, Treating halogenated. M. de Simó and S. H. McAllister. 2,156,721; May 2.
Kitchener. E. Schneider. 2,156,516; May 2.
Knitting machine, Straight-bar. H. W. and E. Start. 2,156,611; May 2.
Knobs or the like, Producing. F. B. Wendal. 2,157,044; May 2.
Lamp: *See*—
Arc lamp. Electric lamp.
Automobile-type lamp. High pressure arc lamp.
Lamp. P. C. Calissi. 2,156,617; May 2.
Lamp and similar device, Electric. H. Jancke and M. Reger. 2,156,988; May 2.
Lantern, Hand. A. Menna. 2,157,081; May 2.
Lantern, Signal. R. A. Shellabarger. 2,156,742; May 2.
Last. E. E. Ouellette. 2,156,817; May 2.
Lasting machine. W. A. Barton. 2,156,368; May 2.
Lasting machine. B. Jorgensen. 2,156,394; May 2.
Latch: *See*—
Window latch.
Latch. G. E. Roedding. 2,156,512; May 2.
Laundering apparatus. C. J. West. 2,156,712; May 2.
Level checking apparatus. D. E. Kennedy. 2,156,292; May 2.
License plate for motor vehicles, Nonremovable illuminated. F. E. Dunnam and R. H. Schmidt. 2,156,753; May 2.
Lift mechanism for tractor attached implements. A. C. Lindgren. 2,156,570; May 2.
Light stabilizers for vinyl resins. T. F. Carruthers and C. M. Blair. 2,157,068; May 2.
Lighter, Cigarette. I. Florman. 2,156,586; May 2.
Lighting construction. G. F. Niemann. 2,156,768; May 2.
Lighting fixture, Vehicle. L. C. Doane. 2,156,621; May 2.
Lime into stills for the recovery of ammonia, Introducing. J. C. Garrels and H. Roderick. 2,156,843; May 2.
Line spacing mechanism. E. Buschmann. 2,156,371; May 2.
Linoleum handling apparatus. C. Salyers. 2,156,820; May 2.
Liquid dispensing apparatus. R. J. Jauch, F. W. Sturm, and W. M. Griffin. 2,157,087; May 2.
Liquid dispensing device, Sterilized. M. C. Schwab. 2,156,314; May 2.
Liquid dispensing valve. T. L. Titus. 2,156,518; May 2.
Liquid from a bottle or like container, Device for delivering a measured quantity of. T. H. Robertshaw. 2,156,606; May 2.
Liquid measuring and filling apparatus. O. Larsen. 2,156,788; May 2.
Livers, Treating fish. H. Hempel. 2,156,985; May 2.
Locking means for windows and the like. E. S. Persson. 2,156,401; May 2.
Locking structure, Automobile. R. A. Sandberg. 2,156,355; May 2.

Looms, Filling detecting mechanism for. B. S. Brown and W. O. Wood. 2,156,838; May 2.
Looms, Filling feeler for. E. W. Barrett and P. Hargreaves. 2,156,900; May 2.
Lubricant. H. S. Cooper and V. R. Damerell. 2,156,803; May 2.
Lubricant, High pressure. F. L. Miller and C. F. Smith. 2,156,265; May 2.
Lubricant retaining device. J. Moreau. 2,156,398; May 2.
Lubrication system for drive mechanism. F. L. Rocke. 2,156,770; May 2.
Lubricator: *See*—
Cellar lubricator.
Luminous sign. P. Stobbe. 2,156,409; May 2.
Lunch container. S. F. Gautier. 2,156,844; May 2.
Machine and method for manufacturing bushings. A. A. Hale. 2,156,337; May 2.
Machine for cleaning carpets, garments, and the like. H. Hammarling. 2,156,389; May 2.
Machine for shaping uppers over lasts. B. Jorgensen. 2,156,393; May 2.
Magnetic testing apparatus. D. R. Knox. 2,156,592; May 2.
Mail box. J. L. Hurst. 2,156,854; May 2.
Map; Road. W. R. Thomas. 2,157,033; May 2.
Marker, Road. H. J. Rosener. 2,157,059; May 2.
Mask, Gas. V. Horak. 2,156,852; May 2.
Match package. H. L. Freeman. 2,156,781; May 2.
Material, Apparatus for deforming sheet. W. K. Wiley. 2,156,889; May 2.
Material feeding mechanism. C. E. Harrison. 2,156,627; May 2.
Material for fusion welding, Austenitic addition. F. Rapatz. 2,156,306; May 2.
Materials, Apparatus for making fibrous. G. Slayter and J. H. Thomas. 2,156,316; May 2.
Materials, Method and apparatus for feeding and distributing sludgy. T. Brady. 2,156,901; May 2.
Materials, Method and apparatus for separating. W. I. Sallee. 2,156,483; May 2.
Matrix forming and bearer for the same. C. E. Boutwell. 2,156,836; May 2.
Mattress. S. Marsack. 2,156,343; May 2.
Measuring and distributing machine. F. G. Leavenworth. 2,156,917; May 2.
Measuring and troweling machine. O. R. Scheurer. 2,156,873; May 2.
Mechanical movement. P. D. Campbell. 2,156,372; May 2.
Mechanism for reversing material. E. F. Horn. 2,156,339; May 2.
Mercaptans contained in a hydrocarbon liquid, Separating. D. L. Yabroff and E. R. White. 2,156,577; May 2.
Mercury switch. A. Cianchi. 2,156,971; May 2.
Metal carbides, Production of highly active. T. H. Vaughn. 2,156,365; May 2.
Metal coating process, Hot. M. Schon. 2,156,607; May 2.
Metal fastener. W. L. Dimoush. 2,156,682; May 2.
Metal vaporizing furnace. G. Anderson and R. S. Olsen. 2,156,420; May 2.
Metals into envelopes, Introducing active. D. H. Wamsley. 2,156,414; May 2.
Meter cabinet. A. J. Allen. 2,156,672; May 2.
Meter for heat consumption. O. C. Brun. 2,156,968; May 2.
Metering pump. C. R. Alden. 2,156,933; May 2.
Method of and apparatus for nonarcing circuit interruption. G. E. Doan. 2,156,974; May 2.
Method of and machine for sealing capped containers. S. B. Field. 2,156,892; May 2.
Methyl bromide, Apparatus for dispensing. P. H. Richert. 2,156,869; May 2.
Microscope. L. H. Brown. 2,156,911; May 2.
Mill: *See*—
Bar mill. Roll mill.
Grinding mill.
Mining machine. O. F. Lewis. 2,156,733; May 2.
Mining machine and elements thereof. F. L. Fulke. 2,156,726; May 2.
Mold: *See*—
Extrusion mold.
Mold. J. J. Mucher. 2,156,459; May 2.
Molding. D. J. Campbell. 2,156,523; May 2.
Mortar depositing device. E. H. Hart. 2,156,474; May 2.
Mortuary device. P. W. Crothers. 2,156,260; May 2.
Motor: *See*—
Expansible chamber motor.
Motor control system. W. R. Perry. 2,156,736; May 2.
Motor pump, Fluid driven. J. D. Mathews. 2,156,537; May 2.
Motor vehicle. F. C. Best. 2,156,580; May 2.
Motorboat. W. A. Edwards. 2,156,938; May 2.
Mount for cinema cameras, etc. A. B. Maugard. 2,156,862; May 2.
Mounting: *See*—
Cutter mounting. Electric light mounting.
Mounting for doorknobs or handles. G. E. Wertz. 2,156,486; May 2.
Mowing machine attachment. E. H. Gunter. 2,156,981; May 2.
Mowing machine structure. R. W. Wagner. 2,157,041; May 2.
Muffler. G. C. Starkweather and L. L. Haas. 2,157,029; May 2.
Multishuttle box. R. G. Turner. 2,156,885; May 2.
Music stand, Portable. D. Bonetti. 2,156,489; May 2.
Musical instrument. F. Watschinger and A. Schlecht. 2,156,711; May 2.
Musical instrument carrying case. M. Brooks. 2,156,910; May 2.
N-phenylarylamines, Preparation of derivatives of. A. M Neal and G. C. Strouse. 2,156,792–3; May 2.
Nozzle and the like, Vacuum sweeper. H. A. Kroenlein. 2,157,077; May 2.
Nuts, Treating. A. F. Stagmeier. 2,156,406; May 2.
Oil burner. H. E. Nelson. 2,156,542; May 2.
Oil burner. T. H. Smoot. 2,156,405; May 2.
Oil, Lubricating. B. H. Lincoln and G. D. Byrkit. 2,157,079; May 2.
Oil, Refining. B. Clayton. 2,157,069; May 2.
Oil well device. C. C. Taylor. 2,156,709; May 2.
Oils, Lubricating. B. H. Lincoln and G. D. Byrkit. 2,157,078; May 2.
Oils, Sulphur. H. F. Merriam and G. W. Cupit, Jr. 2,156,919; May 2.
Olefins, Polymerization of. F. A. Bent, R. W. Millar, and S. N. Wik. 2,156,718; May 2.
Operating mechanism for soot blowers. J. W. L. Simpson. 2,156,436; May 2.
Ornament retaining construction. R. C. Bangs. 2,156,833; May 2.
Oscillation generation system. N. E. Lindenblad. 2,156,456; May 2.
Oxidation products from hydrocarbons, Obtaining. E. V. Murphree and E. D. Reeves. 2,156,266; May 2.
Package or the like, Cake. T. C. Weitmer. 2,156,556; May 2.
Package, Releasable. P. M. Rogers. 2,156,267; May 2.
Packages, Method and apparatus for making. C. W. Vogt. 2,156,466; May 2.
Packaging for iron sheets and the like, Rust preventive. H. N. Simpson. 2,156,357; May 2.
Packaging, Method and apparatus for. A. J. Cordrey and M. Wagner. 2,156,561; May 2.
Packer. R. E. Fulkerson. 2,156,939; May 2.
Packing for pistons, Metallic. W. S. Adams. 2,156,796; May 2.
Packing means for joints. P. Wills. 2,156,662; May 2.
Paint applying device. E. B. Smith. 2,156,270; May 2.
Panel board. W. P. McWhorter. 2,156,479; May 2.
Paper making apparatus. B. M. Baxter. 2,156,445; May 2.
Paper spacing mechanism for printing machines. H. H. Keen. 2,156,990; May 2.
Pen identifying device, Fountain. E. Zimmer. 2,156,775; May 2.
Phase modulation receiver. M. G. Crosby. 2,156,375; May 2.
Phase modulation receiver, Back to back. M. G. Crosby. 2,156,374; May 2.
Phase modulation receiver, Series crystal. M. G. Crosby. 2,156,376; May 2.
Phenol and hydrogen chloride from the mixture of vapors obtained by passing chlorobenzene vapor and steam over a contact at a raised temperature, Separating. W. Prahl. 2,156,402; May 2.
Photographic developing medium producing fine grain results. G. P. Ham. 2,156,626; May 2.
Photometer. F. K. McCune. 2,156,734; May 2.
Piano action. W. G. Betz. 2,156,961–3; May 2.
Piano action. W. S. Finholm. 2,156,913; May 2.
Piano action. R. W. E. Sperry. 2,157,028; May 2.
Pictures in natural color, Projecting motion. R. T. and T. A. Killman. 2,156,814; May 2.
Pipe aligning device. J. Gardiner. 2,156,651; May 2.
Pipe coupling. F. M. Owen. 2,157,008; May 2.
Pipe hanger. W. C. Powell. 2,156,639; May 2.
Pipe joint. C. R. Payne and G. L. Wirtz. 2,156,604; May 2.
Piston construction. A. C. Van Hooydonk. 2,157,039; May 2.
Pitcher's box. A. H. Boltz. 2,154,469; May 2.
Plastic compositions, Production of. A. G. Rodwell. 2,157,018; May 2.
Plow attachment for tractors. A. C. Lindgren and J. Morkovski. 2,156,569; May 2.
Plowshare, Adjustable. P. B. Kremer. 2,156,991; May 2.
Pneumatic circulation drier. E. Schneider. 2,156,924; May 2.
Polishing block. J. Green. 2,156,686; May 2.
Polishing machine. D. Edgar. 2,156,381; May 2.
Power transmission control, Variable speed. A. Madlé. 2,157,065; May 2.
Power transmission mechanism. A. Madlé. 2,157,066; May 2.
Power unit. J. C. Aydelott. 2,156,957; May 2.
Power unit, Geared. W. P. Schmitter. 2,156,739; May 2.
Pregnanolones and producing the same from 3-hydroxy bisnorcholanic acids. A. Butenandt and F. Hildebrandt. 2,156,275; May 2.
Preheater for liquid fuel burners for heating or lighting apparatus. A. Andersen. 2,156,578; May 2.
Preparation for medicinal use. B. L. Wyatt and H. E. Thompson. 2,156,891; May 2.
Press and control therefor, Hydraulic. C. F. Sibbe. 2,156,641; May 2.
Printing mechanism. T. E. Torkelson. 2,157,035; May 2.

Propulsion means. D. C. Lo Giudice. 2,156,898; May 2.
Protector and indicator, Apparel. I. I. Slomon. 2,156,880; May 2.
Pulley and producing same, Pressed steel. O. Mitchell. 2,156,920; May 2.
Pump: *See*—
Metering pump. Vacuum pump.
Motor pump.
Pump. H. A. Storch, R. V. Dillon, and S. H. Caldwell. 2,157,089; May 2.
Punching machine. E. J. Von Pein and P. J. Schlessiger. 2,157,040; May 2.
Rack: *See*—
Safety-glass rack.
Racket, Table tennis. A. M. Keller. 2,156,477; May 2.
Radio receiving system. S. T. Fredrickson. 2,156,809; May 2.
Radio transmission. J. L. Getaz. 2,156,846; May 2.
Radio tube. J. S. Welwood. 2,156,324; May 2.
Radio tuning device. F. S. Coe. 2,156,677; May 2.
Radius cutting tool. A. Rozmarich. 2,156,354; May 2.
Rail joint. E. Schuppner. 2,156,312; May 2.
Rake. J. L. Owen. 2,156,480; May 2.
Rayon spinning apparatus. H. B. Kline. 2,156,296; May 2.
Razor. L. A. Young and J. M. Oldham. 2,156,559; May 2.
Reactions with wire gauze catalysts, Apparatus for carrying out. O. Baader. 2,156,422; May 2.
Reamer. J. A. Zublin. 2,156,444; May 2.
Receiving apparatus for communication systems. W. P. Place. 2,156,702; May 2.
Receptacle: *See*—
Burial receptacle.
Receptacle for switchboard indicating lamps. I. R. Latta. 2,156,995; May 2.
Record book and scoring device. T. E. Torkelson. 2,157,036; May 2.
Record controlled machine. A. E. Gray. 2,156,979; May 2.
Recording instrument. G. E. Lindemann. 2,156,503; May 2.
Refractory and making same. M. Schon and H. C. Be Ment. 2,156,608; May 2.
Refrigerated cutting block apparatus, Detachable. B. B. Smith. 2,156,795; May 2.
Refrigerating apparatus. L. A. Philipp. 2,157,012; May 2.
Refrigerating apparatus. J. M. Staggs. 2,156,668; May 2.
Refrigerating apparatus, Compression. R. Hintze. 2,156,628; May 2.
Refrigerating system, Absorption. R. S. Nelson. 2,156,953; May 2.
Refrigerating systems, Equalizing low pressure. L. Brown and G. B. Shaffer. 2,156,426; May 2.
Refrigeration. R. S. Nelson and C. C. Coons. 2,156,954; May 2.
Regulator: *See*—
Gas pressure regulator.
Remote controlling apparatus. C. E. Staples. 2,156,707; May 2.
Resin sheets, Treating cast polymeric. W. F. Bartoe. 2,157,049; May 2.
Retaining device for pneumatic drills. V. K. Nelson. 2,156,510; May 2.
Retractable landing gear. I. I. Sikorsky. 2,156,773; May 2.
Ribbon, Cellulosic. M. Katz. 2,156,501; May 2.
Rod: *See*—
Connecting rod. Welding rod.
Rod baking equipment. J. R. Morrison and K. B. Lewis. 2,156,303; May 2.
Rods or tubing, Apparatus for drawing and severing glass. C. A. Brown and F. B. Van Sickle. 2,157,067; May 2.
Roll for heat treating furnaces. H. Klouman. 2,156,395; May 2.
Roll mill. F. De Benedetti. 2,156,584; May 2.
Roll, Printing. A. L. Freedlander. 2,156,385; May 2.
Roller side bearing. A. B. Severn. 2,156,706; May 2.
Roof for vehicles, Sliding. W. H. Bishop. 2,156,615; May 2.
Rotary valve engine. E. G. Baker. 2,156,749; May 2.
Rubber, Making sponge. H. R. Minor. 2,156,508; May 2.
Rubber product. H. J. Rittenhouse. 2,156,871; May 2.
Rubberlike compositions, Synthetic. M. C. Agens. 2,156,956; May 2.
Rule, Collable. F. A. Volz. 2,156,907; May 2.
Rule, Collable measuring. A. L. Stowell and F. A. Volz. 2,156,905; May 2.
Safety-glass rack. R. D. Scull. 2,156,876; May 2.
Safety switch. D. L. and B. H. Closson. 2,156,946; May 2.
Sandblast shaping. R. Knox. 2,156,696; May 2.
Sash, Insulating. O. H. Biddle. 2,156,964; May 2.
Scale, Variable. D. J. Christensen. 2,156,524; May 2.
Scale, Wheel. K. E. Whitney. 2,156,325; May 2.
Scouring means. A. M. Goodloe. 2,156,494; May 2.
Seal for rotary valves of internal combustion engines. A. Baer. 2,156,960; May 2.
Seal, Lubricant. A. F. Berger. 2,156,719; May 2.
Seal, Shackle. W. M. Brooks. 2,156,616; May 2.
Seat. M. R. Hutchinson. 2,156,629; May 2.
Seismic-electric prospecting by means of continued waves. L. W. Blau. 2,156,259; May 2.
Seismic surveying, Subsurface. L. Y. Faust. 2,156,624; May 2.
Sensitive instrument. O. T. Handwerk. 2,156,496; May 2.
Separating member for Jordan engines. A. L. Bolton. 2,156,835; May 2.
Serial, Wireless. N. Wells. 2,156,661; May 2.
Severing and dispensing apparatus. H. E. Williams. 2,156,931; May 2.
Sewing machine. F. Lutz. 2,156,536; May 2.
Sewing machine. O. Strobel. 2,157,032; May 2.
Sewing machines and the like, Feed mechanism for. N. V. Christensen, C. C. Smith, and G. Sauer. 2,156,525; May 2.
Sewing machines, Lubricating system for. C. C. Smith. 2,156,547; May 2.
Sewing machines, Needle guide for. F. A. Kucera. 2,156,535; May 2.
Sewing machines, Presser foot for. O. Mohn. 2,156,399; May 2.
Shades, Making window. S. J. Johnson. 2,157,057; May 2.
Shafts of machine tools at different speeds, Driving the. A. H. Lloyd. 2,156,596; May 2.
Shearing mechanism. M. Morgan and J. W. Sheperdson. 2,157,000; May 2.
Sheet aligning and locating means for writing machines. J. Q. Sherman and A. W. Metzner. 2,156,315; May 2.
Sheet feeder. L. Baker, G. A. Martin, and L. C. Williams. 2,156,648; May 2.
Sheeting, Adhesive. R. G. Drew. 2,156,380; May 2.
Shim plate. E. G. Nylander. 2,157,005; May 2.
Shingle and making the same, Asbestos cement. C. Schuh. 2,156,310; May 2.
Shock absorber control means. P. F. Rossmann. 2,156,546; May 2.
Shock absorbing device. G. J. Kessenich. 2,156,294; May 2.
Shoe. J. B. Greider. 2,156,532; May 2.
Shoemaking. W. M. Page. 2,156,511; May 2.
Shoe making machine. O. Michaik. 2,156,767; May 2.
Shoe upper. R. F. Rossi. 2,156,819; May 2.
Short wave system, Ultra. W. Ilberg. 2,156,653; May 2.
Shower head. E. H. Bucknell and R. E. Bletcher. 2,156,800; May 2.
Shredder. G. Austria. 2,156,421; May 2.
Shuttle, Spring side metal. H. H. Holcombe. 2,157,055; May 2.
Sickle bar assembly. V. L. Stathem. 2,156,745; May 2.
Side bearing. A. B. Severn. 2,156,705; May 2.
Sign: *See*—
Luminous sign.
Sign and letters therefor, Changeable. B. H. Adler. 2,156,257; May 2.
Sign and making same. T. B. Lakin. 2,156,634; May 2.
Signal: *See*—
Trawling signal.
Signal switch. D. O. Seaman. 2,156,703; May 2.
Signal system for railroads, Automatic block. D. J. Murphy. 2,156,637; May 2.
Signal transmission system. S. Doba, Jr. 2,156,622; May 2.
Signaling system. R. Urtel. 2,156,932; May 2.
Silica, Manufacture of carburized. C. A. Jacobson. 2,156,591; May 2.
Siliceous materials, Neutralizing the condition producing qualities of finely pulverized. J. J. Denny and W. D. Robson. 2,156,378; May 2.
Six wheeled vehicle. B. A. Mosling and C. E. Sartwell. 2,156,601; May 2.
Sliding clasp fastener. F. Rafael. 2,157,084; May 2.
Slip. R. L. Fluellen. 2,156,384; May 2.
Sluice, Floating. W. A. Whitcomb. 2,156,713; May 2.
Soap holder. C. Graham. 2,156,940; May 2.
Soap, Superfatted. W. Schrauth. 2,157,022; May 2.
Solenoid. D. W. Davis. 2,156,937; May 2.
Solution for dyeing cast phenolic articles. R. O. Wood. 2,156,442; May 2.
Solutions of metal-organic compounds and making the same, Stabilized. W. E. Lyons. 2,156,918; May 2.
Sorting machine. I. Ghertzmann. 2,156,978; May 2.
Sorting machine. A. M. Smith. 2,156,822; May 2.
Spacer and seal for building construction. G. A. Unverferth. 2,157,038; May 2.
Spacing apparatus. H. J. Criner. 2,156,563; May 2.
Speaker system for fire alarms. G. J. Schwall and J. E. McCarty. 2,156,356; May 2.
Speed regulating devices. R. Seidel. 2,157,088; May 2.
Speed transmission, Variable. T. B. Martin. 2,156,698; May 2.
Spindle, Double twist-twisting. O. Bochmann. 2,156,330; May 2.
Spool structure. G. G. Tucker, Jr. 2,156,363; May 2.
Spray. L. R. Morgan. 2,156,655; May 2.
Spring clip device. J. H. Van Uum. 2,156,670; May 2.
Spring device. J. K. Wood. 2,156,468; May 2.
Spring structure. A. Krakauer. 2,156,728; May 2.
Springs for electrical switching apparatus, Set of contact. S. D. Vigren and S. G. F. Blomquist. 2,156,465; May 2.
Stabilizer control for toy airplanes, Adjustable. H. A. Sellers, Jr. 2,156,741; May 2.

Stabilizing circuit. D. V. Sinninger. 2,156,358; May 2.
Stand: *See*—
Desk stand. Music stand.
Steam bath cabinet. A. B. Stout. 2,156,361; May 2.
Steel, Stainless. A. L. Kaye, R. S. Williams, and J. Wulff. 2,156,914; May 2.
Steel strips, Coating. T. B. Chace. 2,156,331; May 2.
Steels, Welding hardenable. F. Rapatz. 2,156,307; May 2.
Steering means for tractors, Automatic. G. From. 2,156,977; May 2.
Stenciling. R. G. Drew. 2,156,279; May 2.
Stepladder. L. L. Mohr. 2,156,397; May 2.
Sticks or ribbons of chewing gum or the like, Forming. F. A. Garbutt. 2,156,810; May 2.
Stove, Blast furnace. O. R. Rice. 2,157,017; May 2.
Strainer and drop catcher, Combination tea. E. Stamm. 2,156,517; May 2.
Straps for tire chains, Resilient cross. W. J. Lutey. 2,156,816; May 2.
Stretcher, Hosiery. R. Oldfield. 2,156,349; May 2.
Striking bag. J. Andre. 2,156,831; May 2.
Strip, Contact. O. H. Basquin. 2,156,715; May 2.
Strip, Multiple outlet. A. O. La Ducer. 2,156,633; May 2.
Strip, Sealing. H. Dewhirst and E. Meyer. 2,156,081; May 2.
Strips of extruded material, Handling. L. C. Boyer. 2,156,909; May 2.
Strips of flexible material, Assembling. J. E. Zomnir. 2,156,419; May 2.
Stud and like element. R. W. McLaughlin, Jr. 2,156,347; May 2.
Substances in vacuo, Method and apparatus for drying. J. G. W. Gentele. 2,156,845; May 2.
Sulphur composition, Wettable. E. C. Missbach. 2,156,790; May 2.
Sulphur dioxide, Production of. A. C. Mohr. 2,156,791; May 2.
Support: *See*—
Bust support. Detachable support.
Cushion support.
Support and coupling, Monorail. W. G. Wehr. 2,156,827; May 2.
Supporter, Acoustic device. B. S. Liss. 2,156,504; May 2.
Switch: *See*—
Electric switch. Safety switch.
Electric tumbler switch. Signal switch.
Mercury switch.
Switch control system. C. M. Hines. 2,156,689-90; May 2.
Switch housing, Explosionproof. C. A. Hardage. 2,156,564; May 2.
Switching mechanism. F. H. Cole. 2,156,663; May 2.
Swivel joint. M. Zadek. 2,156,367; May 2.
Table: *See*—
Glass surfacing table.
Tabulating machine. J. W. Bryce. 2,156,969; May 2.
Tape, Snap fastener. P. A. Perry. 2,157,011; May 2.
Telephone hand-set. W. A. Evans and W. W. Werring. 2,156,754; May 2.
Television system. V. K. Zworykin. 2,157,048; May 2.
Television transmitting apparatus. H. A. Iams. 2,156,302; May 2.
Television transmitting tube. W. Hickok. 2,156,391; May 2.
Temperature compensator for meter driven registers. C. S. Hazard. 2,156,812; May 2.
Temperature control for water heaters. H. J. Long. 2,156,458; May 2.
Temperature indicating device for washing machines. D. A. Lundy. 2,156,763; May 2.
Thermocouple. F. E. Huggins, Jr. 2,156,853; May 2.
Thermohydrometer. J. A. Wesseler. 2,157,063; May 2.
Thermometric means. R. Ullman. 2,156,826; May 2.
Ties from cast concrete, Pulling form. S. S. Colt. 2,156,528; May 2.
Time recorder. L. S. Harrison. 2,156,983; May 2.
Tin, Electro depositing. J. P. Cooper and D. W. Light. 2,156,427; May 2.
Tire pressure controlling apparatus. W. H. Davis. 2,156,841; May 2.
Tongs, Tie elevating. C. F. Packer. 2,156,735; May 2.
Tool: *See*—
Clip applying tool. Radius cutting tool.
Tool bar construction. S. E. Lacey. 2,156,567; May 2.
Tower, Cooling. S. C. Coey. 2,157,070; May 2.
Toy, Mechanical. H. Schmarion. 2,157,021; May 2.
Tractors, Implement attachment for. A. C. Lindgren and C. W. Mott. 2,156,571; May 2.
Traffic controlling apparatus, Railway. C. W. Bell. 2,156,673; May 2.
Traffic controlling apparatus, Railway. R. R. Kemmerer. 2,156,855; May 2.
Traffic controlling apparatus, Railway. R. A. McCann. 2,156,674; May 2.
Traffic controlling apparatus, Railway. R. A. McCann. 2,156,765-6; May 2.
Traffic controlling apparatus, Railway. H. S. Young. 2,156,675; May 2.
Transformer. A. E. Rittenhouse. 2,156,461; May 2.
Transformer voltage regulating system. O. P. McCarty. 2,156,997; May 2.
Transmission, Automatic. V. Haigh. 2,156,336; May 2.
Trawling signal. C. L. Guyman. 2,156,452; May 2.
Tread, detachable tire. G. R. Nelson, Sr. 2,157,004; May 2.
Tread, Safety. O. C. Duryea. 2,156,777; May 2.
Truck, Self-loading. S. G. Barnard. 2,156,424; May 2.
Truss, Fabricated. F. N. Ropp. 2,156,818; May 2.
Tube: *See*—
Booster embalming tube. Radio tube.
Cathode discharge tube. Television transmitting tube.
Cathode ray tube.
Tube for duct guns, Discharge. W. H. Rose. 2,156,268; May 2.
Tuning mechanism for radio apparatus. L. F. Curtis and F. S. Coe. 2,156,679; May 2.
Turbine, Impulse. L. F. Moody. 2,156,921; May 2.
Type casting machine. S. Myers and A. F. Camp. 2,156,638; May 2.
Typewriter. J. A. La Hiff. 2,156,697; May 2.
Typewriter carriages, Noiseless return for. F. Wunderlich. 2,156,418; May 2.
Typewriters, Attachment for. L. G. Alcorn. 2,156,829; May 2.
Typewriting and computing machine, Combined. H. L. Pitman. 2,156,481; May 2.
Typewriting machine. C. W. Crumrine. 2,157,053; May 2.
Typewriting machine. R. D. Dodge. 2,156,975; May 2.
Typewriting machine. W. F. Helmond. 2,156,475; May 2.
Typewriting machine. H. C. Yaeger. 2,156,614; May 2.
Umbrella, Folding. H. Haupt. 2,156,984; May 2.
Urethanes, Acyloxy mercury. K. Miescher and K. Hoffmann. 2,156,598; May 2.
Vacuum cleaner. D. M. Dow. 2,156,805; May 2.
Vacuum cleaner filter. H. A. Kroenlein. 2,156,857; May 2.
Vacuum pump. J. P. Johnson. 2,156,340; May 2.
Valve: *See*—
Liquid dispensing valve.
Valve. E. E. Brosius. 2,156,967; May 2.
Valve. F. Hinrichs. 2,156,498; May 2.
Valve for heating systems. J. A. Parks, Jr. 2,156,865; May 2.
Vapor bath cabinet. H. W. Knoche. 2,156,993; May 2.
Variable condenser. S. Cohen. 2,156,449; May 2.
Vegetables, Apparatus for washing root. F. C. Davis. 2,156,840; May 2.
Vehicle: *See*—
Motor vehicle. Six-wheeled vehicle.
Vehicle body. H. Grade. 2,157,075; May 2.
Vehicle frame. W. Kuner. 2,156,730; May 2.
Vehicle identification and signaling device. R. H. Ducey. 2,156,806; May 2.
Vehicle, Preventing retrograde movement of a. C. T. Humber. 2,156,590; May 2.
Vehicles, Means to load. H. F. Suverkrup. 2,156,438; May 2.
Vending machine. P. L. Geer. 2,156,531; May 2.
Vessel, Beverage. W. Schassler. 2,156,515; May 2.
Vibrator. E. L. Barrett. 2,156,487; May 2.
Vinegar generator system. L. S. Elmer. 2,156,428; May 2.
Viscosimeter. C. R. Stewart. 2,156,407; May 2.
Washer: *See*—
Air filter washer.
Washing and elevating apparatus. W. E. Urschel. 2,156,364; May 2.
Washing machine. L. G. Knapp. 2,156,992; May 2.
Washing machine, Portable. P. K. Misenhimer and W. A. Williams. 2,156,541; May 2.
Water-cooled coupling. E. L. Durrell. 2,156,493; May 2.
Water, Production of heavy. F. Hansgirg. 2,156,851; May 2.
Weatherproofing structure for doors. D. H. Harnly. 2,156,430; May 2.
Weed killer. E. C. Missbach. 2,156,789; May 2.
Weight control system. E. Godat. 2,156,895; May 2.
Welding rod. F. Leitner. 2,156,299; May 2.
Well, Water. C. E. Records. 2,157,085; May 2.
Wells, Measuring the location of obstructions in. C. P. Walker. 2,156,519; May 2.
Welt support for sole attaching machines. S. J. Finn. 2,156,281; May 2.
Window construction. E. Wandscheer. 2,156,555; May 2.
Window latch. S. C. Reynaud. 2,157,016; May 2.
Windshield heater. A. A. Johnson. 2,157,056; May 2.
Wing, fuselage, or other aircraft body. B. N. Wallis. 2,157,042; May 2.
Wiper, Gauge line. G. Smith. 2,157,024; May 2.
Wiper, Windshield. L. Marcollvio. 2,156,505; May 2.
Wiper construction, Windshield. L. Marcollvio. 2,156,506; May 2.
Wire strands, Manufacture of. G. M. Harris. 2,156,652; May 2.
Wood-sealing composition. M. W. Johnson. 2,156,694; May 2.
Workpieces, Grinding cylindrical. C. Thyssen. 2,156,485; May 2.
Wrapper for foodstuffs. T. M. Hill. 2,156,987; May 2.

Wrapper and packaging confectioneries, Confectionery. C. Barbieri. 28,156,328; May 2.
Wrapping machine, Soft-package. R. H. Plass. 2,156,460; May 2.
Wrench. L. A. Day. 2,156,529; May 2.
Wrench. C. E. Harris. 2,156,285; May 2.
Writing cabinet. E. C. Drover. 2,156,776; May 2.
Yarn and fabric construction. R. Bouvet and J. Haesler. 2,156,935; May 2.
Yarn and fabric, Producing stiffened. C. H. Daniels. 2,156,401; May 2.
Yarn, Elastic. A. Coté. 2,156,332; May 2.
Yeast for combination with food products, Processing. L. M. Holcomb. 2,156,499; May 2.
Zein composition. O. Sturken. 2,156,927; May 2.
Zein filaments. L. C. Swallen. 2,156,929; May 2.
Zein, The production of. L. C. Swallen. 2,156,928; May 2.

CLASSIFICATION OF PATENTS

ISSUED MAY 2, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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309: 2,156,616
332: 2,156,513
354: 2,156,486
293— 55: 2,156,730
294— 67: 2,156,876
296— 28: 2,157,075
137: 2,156,615
299— 85: 2,156,655
130: 2,156,800
140: 2,156,783
302— 36: 2,156,720
305— 9: 2,156,565
308— 22: 2,156,848
88: 2,156,377
226: 2,156,703
2,156,706
309— 4: 2,157,039
43: 2,156,796
312— 164: 2,156,776

U. S. GOVERNMENT PRINTING OFFICE: 1959

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Steel Company, Chicago, Ill. Steel strip. Serial No. 416,236; May 9. Class 14.

Aerofin Corporation, Syracuse, N. Y. Heating, cooling, and air conditioning units employing finned tubing. Serial No. 405,583; May 9. Class 34.

Ajax Liquor Company, Inc., Houston, Tex. Gin and whiskey. Serial No. 416,936; May 9. Class 49.

Aldine Paper Company, Incorporated, New York, N. Y. Filter or porous paper. Serial No. 416,985; May 9. Class 37.

Alexander Marketing Company, San Benito, Tex. Fresh vegetables. Serial No. 416,715; May 9. Class 46.

Alice Frock Company. (See Gudnason, Krist.)

Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Garden hose. Serial No. 417,791; May 9. Class 35.

American Brewing Company, New Orleans, La. Beer and ale. Serial No. 417,196; May 9. Class 48.

American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Milk bottle caps. Serial No. 416,595; May 9. Class 50.

Anton Sales Company, Philadelphia, Pa. Laxative tablets. Serial No. 415,622; May 9. Class 6.

Arnold, Schwinn & Co., Chicago, Ill. Bicycles. Serial Nos. 416,673–4; May 9. Class 19.

Ault & Wilborg Corporation, Cincinnati, Ohio, and New York, N. Y. Paints, varnishes and paint enamels. Serial No. 416,397; May 9. Class 16.

Avon Sole Company, Holbrook, Mass. Composition soles and heels. Serial No. 417,112; May 9. Class 39.

Baltimore Trouser Company, Inc., Baltimore, Md. Sport shirts, slacks, and trousers. Serial No. 416,090; May 9. Class 39.

Bashkes, Hyman, doing business as Triangle Shoe Co., New York, N. Y. Shoes. Serial No. 406,902; May 9. Class 39.

Bastain-Morley Co., Inc., La Porte, Ind. Tank used in hot water heaters. Serial No. 417,049; May 9. Class 34.

Bazan, Isaac C., doing business as Grabo Chemical Company, Grand Rapids, Mich. Liquid cleaning agent. Serial No. 415,626; May 9. Class 4.

Behr-Manning Corporation, Troy, N. Y. Pile fabrics. Serial Nos. 416,832–4; May 9. Class 42.

Belle Knitting Corp., New York, N. Y. Ladies' and children's underwear. Serial No. 417,077; May 9. Class 39.

Bendix, Jacob, New York, N. Y. Compound used in finishing of textile fabrics, also for use as a type of finish for textile fabrics, etc. Serial No. 416,625; May 9. Class 6.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Cotton pile fabrics. Serial No. 375,748; May 9. Class 42.

Bon Marche, The. (See Allied Stores Corporation.)

Boone Rock Bottling Company, Spencer, N. C. Beverages and syrups and extracts for making the same. Serial No. 416,452; May 9. Class 45.

Borcherdt Malt Extract Co., Chicago, Ill. Vitamin B complex malt syrup. Serial No. 417,200; May 9. Class 6.

Bradshaw, J. C., doing business as Oil Tool Manufacturing Co., Houston, Tex. Bull plugs, boiler nipples, bushings, etc. Serial No. 415,374; May 9. Class 13.

Bramson, Roy T., assignor to the Bramson Publishing Company, doing business as The Bramson Publishing Company, Detroit, Mich. Magazine. Serial No. 412,168; May 9. Class 38.

Buckeye Traction Ditcher Company, The, Findlay, Ohio. Ditch digging machines, clay and sand digging machines, etc. Serial No. 404,596; May 9. Class 23.

Buckeye Traction Ditcher Company, The, Findlay, Ohio. Shoveling machines. Serial No. 404,597; May 9. Class 23.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 414,684; May 9. Class 27.

Burtnett Drug Company, Wichita, Kans. Cough syrup. Serial No. 416,503; May 9. Class 6.

Byer-Rolnick Company, Dallas, Tex. Hats. Serial No. 415,831; May 9. Class 39.

Carter Products, Inc., New York, N. Y. Laxative salt and pills. Serial No. 417,260; May 9. Class 6.

Carter Products, Inc., New York, N. Y. Lipstick. Serial No. 416,681; May 9. Class 6.

Carter, Robert E., Chicago, Ill. Insurance policy vending machines. Serial No. 414,611; May 9. Class 26.

Castillian Products Corp., Los Angeles, Calif. Nail polish, nail enamel, cuticle oil, etc. Serial No. 415,634; May 9. Class 6.

Central California Producers, Oakland, Calif. Fruit and vegetable juices. Serial No. 405,437; May 9. Class 46.

Cheney Weeder Company, Cheney, Wash. Rotary rod weeders. Serial No. 415,324; May 9. Class 23.

Clark-Milliner Co., Chicago, Ill. Solution saturated eye masks. 416,890; May 9. Class 6.

Clark, Sarah E., Co., New York, N. Y. Chile-con-carne. Serial No. 416,283; May 9. Class 46.

Clinton Company, Clinton, Iowa. Salad oil. Serial No. 416,539; May 9. Class 46.

Cobb, Clarence M., Boston, Mass. Laundry detergents and dry cleaning preparations. Serial No. 416,840; May 9. Class 4.

Coffelator Co., The, Newark, N. J. Coffee makers. Serial No. 414,555; May 9. Class 13.

Cohn, H. C., & Co., Rochester, N. Y. Neckties. Serial No. 416,040; May 9. Class 39.

Cohn, H. C., & Co., Rochester, N. Y. Neckties. Serial No. 416,045; May 9. Class 39.

Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, acetate and/or piece goods. Serial No. 416,178; May 9. Class 42.

Cohen, Jos. S., & Sons Co., Inc., New York, N. Y. Frocks and dresses. Serial No. 414,726; May 9. Class 39.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Powder puffs. Serial No. 403,991; May 9. Class 29.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Scripts for a series of commercial radio broadcasts. Serial No. 415,836; May 9. Class 38.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. Serial Nos. 416,841–2; May 9. Class 4.

Columbia Mills, Inc., The, New York, N. Y. Window shade cloth. Serial No. 417,081; May 9. Class 42.

Commonwealth Shoe and Leather Company, Whitman, Mass. Men's shoes. Serial No. 413,391; May 9. Class 39.

Cooperative G. L. F. Soil Building Service, Inc., New York and Ithaca, N. Y. Preservative for feeds for live stocks. Serial No. 415,074; May 9. Class 6.

Crown Can Company, Philadelphia, Pa. Metal cans. Serial No. 416,643; May 9. Class 2.

Darrah, William A., Chicago, Ill. Industrial furnaces, dryers, pickling baths, etc. Serial No. 412,595; May 9. Class 34.

Day, Ned, Milwaukee, Wis. Bowling balls. Serial No. 416,796; May 9. Class 22.

Delta Manufacturing Company, Milwaukee, Wis. Circular saws and saw tables. Serial No. 411,448; May 9. Class 23.

Denver Leather Co., The, Denver, Colo. Leather. Serial No. 416,644; May 9. Class 1.

Diplomat Products, Inc., New York, N. Y. Chicken chow mein. Serial No. 415,584; May 9. Class 46.

Donahue, A. J., Corporation, The, Milford, Conn. Hair curlers, wavers, clips, etc. Serial No. 416,049; May 9. Class 40.

Donnelly Garment Sales Company, Kansas City, Mo. Women's and misses' suits, slacks, shirts, etc. Serial No. 412,961; May 9. Class 39.

Dorland International, Incorporated, New York, N. Y. Perfumery, toilet water, and astringent. Serial No. 416,764; May 9. Class 6.

Dress-Well Neckwear Co., Inc., New York, N. Y. Neckties and mufflers. Serial No. 416,407; May 9. Class 39.

Dritz-Traum Company, Inc., New York, N. Y. Elastic thread. Serial No. 415,707; May 9. Class 43.

Eastman Kodak Company, Rochester, N. Y. Organic chemicals. Serial No. 416,646; May 9. Class 6.

Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. Serial No. 415,880; May 9. Class 46.

Erwyn Products Inc., New York, N. Y. Perfume, rouge, perfumed bath salts, etc. Serial No. 409,993; May 9. Class 6.

Esko Manufacturing Corporation, Houston, Tex. Ventilating fans. Serial No. 414,729; May 9. Class 34.

Esquire-Coronet, Inc., assignor to Ken, Inc., Chicago, Ill. Publication. Serial No. 395,339; May 9. Class 38.

Essex Rubber Company, Trenton, N. J. Rubber railroad ties for tracks for toy trains. Serial No. 417,121; May 9. Class 22.

Farrar & Trefts, Incorporated, Buffalo, N. Y. Pressure tanks and hot water and steam boilers. Serial No. 399,924; May 9. Class 34.

Findley, Lester L., doing business as The-Cab-Ni-Tex Company, Los Angeles, Calif. Syringe cabinets. Serial No. 404,197; May 9. Class 32.

Fink Baking Corporation, New York, N. Y. Bread. Serial No. 415,448; May 9. Class 46.

Fleisher Yarns, Inc., New York, N. Y. Yarns. Serial No. 416,853; May 9. Class 43.

Fort Howard Paper Company, Green Bay, Wis. Hollet paper, towels, and napkins. Serial No. 416,725; May 9. Class 37.

Frank, J., & Sons, Philadelphia, Pa. Beverages, and syrups, extracts, and flavors used in making the same. Serial No. 414,521; May 9. Class 45.

Franks, Royce W., doing business as Windmaster Draft Control Co., Portland, Oreg. Draft control dampers for furnaces, heating plants, large commercial heating plants, etc. Serial No. 409,841; May 9. Class 34.
Friedrich, E., Inc., San Antonio, Tex. Refrigerators and refrigerator cabinets. Serial No. 417,055; May 9. Class 31.
Frito Company, The, Dallas, Tex. Corn chips. Serial No. 415,385; May 9. Class 46.
Frito Company, The, Dallas, Tex. Peanut butter sandwiches. Serial No. 415,842; May 9. Class 46.
Glidden Company, The, doing business as Southern Pine Chemical Company, Cleveland, Ohio. Mixture of phenols. Serial No. 414,344; May 9. Class 6.
Gemloid Corporation, New York, N. Y. Post cards. Serial No. 414,399; May 9. Class 38.
Gemmill, C. H., doing business as C. H. Gemmill Company, Chicago, Ill. Drills, jigs, boring jigs, etc. Serial No. 416,221; May 9. Class 23.
General Electric Company, Schenectady, N. Y. Electric transformers. Serial No. 415,450; May 9. Class 21.
General Electric Company, Schenectady, N. Y. Electric transformers and stationary induction apparatus. Serial No. 415,452; May 9. Class 21.
General Food Products Co. (See Safeway Stores, Inc.)
General Tire & Rubber Company, The, Akron, Ohio. Tires. Serial No. 410,107; May 9. Class 35.
Globe Oil & Refining Company, The, Wichita, Kans. Tires and tubes. Serial Nos. 414,875–6; May 9. Class 35.
Goldsmith Bros., New York, N. Y. Fasteners. Serial No. 416,726; May 9. Class 37.
Gomshall Tanneries Limited, Gomshall, England. Leather. Serial No. 415,591; May 9. Class 1.
Goodall Worsted Company, Sanford, Maine. Piece goods. Serial No. 417,089; May 9. Class 42.
Go Publishing Company, Inc., Washington, D. C. Magazine. Serial No. 416,766; May 9. Class 38.
Grabo Chemical Company. (See Bazan, Isaac C.)
Grand Union Company, The, New York, N. Y. Baking powder, candy, fruits, etc. Serial No. 411,375; May 9. Class 46.
Green Bay Food Company, Green Bay, Wis. Canned prepared salad. Serial No. 417,279; May 9. Class 46.
Gudnason, Krist, doing business as Alice Frock Company, Oakland, Calif. Dresses, pajamas, slacks, etc. Serial No. 413,781; May 9. Class 39.
Gutman Bros., New York, N. Y. Leather. Serial No. 416,187; May 9. Class 1.
Hansen, Carl U. F. K., Copenhagen, Denmark. Cheese. Serial No. 417,058; May 9. Class 46.
Harbison-Walker Refractories Company, Pittsburgh, Pa. Covers for ingot molds. Serial No. 403,686; May 9. Class 50.
Harlingen Canning Co., Harlingen, Tex. Canned citrus juices. Serial No. 416,728; May 9. Class 45.
Harrison, Monroe, Chicago, Ill. Fruit juices and concentrates. Serial No. 413,708; May 9. Class 45.
Harrison, Monroe, Chicago, Ill. Fruit juices and concentrates. Serial No. 413,711; May 9. Class 45.
Harvey & Howe, Inc., Chicago, Ill. Publication. Serial No. 414,071; May 9. Class 38.
Harwoods Laboratories Limited, Watford, England. Medicated tablets. Serial No. 412,256; May 9. Class 6.
Heiman, Arthur S., Inc., New York, N. Y. Rayon and acetate piece goods. Serial No. 411,455; May 9. Class 42.
Heibros Watch Co. Inc., New York, N. Y. Watches. Serial No. 416,730; May 9. Class 27.
Hermes, S. A., Paris, France. Clocks and watches. Serial No. 416,559; May 9. Class 27.
Hickory Dairy Co., Holly, Mich. Butter, cheese, milk, etc. Serial No. 410,467; May 9. Class 46.
Highland Sales Company, Denver, Colo. Canned mushrooms. Serial No. 415,290; May 9. Class 46.
Hollidge, C. Crawford, Ltd., Boston, Mass. Women's, misses', and children's outer wearing apparel. Serial No. 399,711; May 9. Class 39.
Hudson, Ann, New York, N. Y. Compound tonic. Serial No. 409,572; May 9. Class 6.
Industrial Soap Co., St. Louis, Mo. Sweeping compound, metal polish, toilet soap, etc. Serial No. 415,779; May 9. Class 4.
Infanticipating Dress Co., New York, N. Y. Dresses. Serial No. 414,738; May 9. Class 39.
Iodent Chemical Company, Detroit, Mich. Medicated composition. Serial No. 417,154; May 9. Class 6.
Italian Swiss Colony, San Francisco, Calif. Wines. Serial Nos. 417,012–13; May 9. Class 47.
Juvenile Jewelry Company, Chicago, Ill. Baby and children's jewelry. Serial No. 416,192; May 9. Class 28.
Kaehler, Arnold A., doing business as Sturdiwheat Company, Red Wing, Minn. Basic food product made from wheat. Serial No. 417,336; May 9. Class 46.
Kahn, Arthur, Co., Inc., New York, N. Y. Cotton piece goods. Serial No. 416,957; May 9. Class 42.
Kaufman, Ruth, New York, N. Y. Feather trees. Serial No. 413,378; May 9. Class 50.
Kelly, Kitty, Shoe Corporation, New York, N. Y. Shoes, spats, heels, etc. Serial No. 414,601; May 9. Class 39.
Ken, Inc. (See Esquire-Coronet.)
Korwood Incorporated, Chicago, Ill. Glass coffee makers and parts thereof. Serial No. 416,609; May 9. Class 33.
Laclede Steel Company, St. Louis, Mo. Steel joists and wire mesh. Serial No. 402,427; May 9. Class 12.
Lady Esther, Ltd., Chicago, Ill. Nail polish and lustre. Serial No. 416,611; May 9. Class 6.
Lane & Campbell, Providence, R. I. Concentrate and syrup for making beverages. Serial No. 415,516; May 9. Class 45.
Lapp Laboratories, Inc., Nevada, Iowa. Feed concentrate for calves. Serial No. 402,265; May 9. Class 46.
Larus & Brother Company, Inc., Richmond, Va. Tobacco products. Serial No. 416,427; May 9. Class 17.
Laucks, I. F., Inc., Seattle, Wash. Plastic wall coating compounds. Serial No. 415,481; May 9. Class 12.
Leduc, Marcel, New York, N. Y. Toilet water, eau de cologne, suntan oil, etc. Serial No. 413,835; May 9. Class 6.
Leigh Chemist, Inc., New York, N. Y. Toilet creams. Serial No. 415,341; May 9. Class 6.
Lentheric, Incorporated, New York, N. Y. After shave lotion, eau de cologne, and scalp stimulant. Serial No. 417,092; May 9. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes. Serial No. 417,093; May 9. Class 6.
Lepman Brothers Company, Chicago, Ill. Ladies' hats. Serial No. 416,858; May 9. Class 39.
Levy, Maurice, doing business as Malvy, New York, N. Y. Perfume. Serial No. 417,022; May 9. Class 6.
London House, Ltd., New York, N. Y. Pipes. Serial No. 416,961; May 9. Class 8.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics in the piece. Serial No. 405,883; May 9. Class 42.
Lucas, Joseph S., doing business as Medical Products Company, New Orleans, La. Cream lotion. Serial No. 416,570; May 9. Class 6.
Magnolia Citrus Association, Porterville, Calif. Fresh citrus fruit. Serial No. 417,287; May 9. Class 46.
Malvy. (See Levy, Maurice.)
Manning, Bowman & Co., Meriden, Conn. Electric waffle irons. Serial No. 415,406; May 9. Class 21.
Marshall Field & Company, Chicago, Ill. Shoes. Serial No. 417,004; May 9. Class 39.
Mathie-Ruder Brewing Company, Wausau, Wis. Beer. Serial No. 412,350; May 9. Class 48.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Shoes. Serial No. 416,514; May 9. Class 39.
McCoy's Products, Inc., New York, N. Y. Liquid preparation. Serial No. 416,909; May 9. Class 6.
McLoughlin Bros., Inc., Springfield, Mass. Combination song book and musical toy. Serial No. 413,873; May 9. Class 22.
Medical Products Company. (See Lucas, Joseph S.)
Metzgers, Incorporated, Greenville, Mich. Potatoes and onions. Serial No. 417,292; May 9. Class 46.
Milwhite Company, Inc., The, Houston, Tex. Chemical mud-thinner. Serial No. 417,179; May 9. Class 6.
Monsanto Chemical Company, St. Louis, Mo. Plastic compositions. Serial No. 413,416; May 9. Class 50.
Monsanto Chemical Company, St. Louis, Mo., and Indian Orchard, Mass. Golf tees. Serial No. 416,433; May 9. Class 22.
Moore Dry Kiln Company of Oregon, North Portland, Oreg. Dry kilns. Serial No. 408,469; May 9. Class 34.
Morton Chemical Company, Greensboro, N. C. Sulphonated oils, finishing oils, dyeing oils, etc. Serial No. 415,849; May 9. Class 6.
Morton Chemical Company, Greensboro, N. C. Series of organic specialties. Serial No. 415,850; May 9. Class 6.
Morton Chemical Company, Greensboro, N. C. Series of organic wetting and penetrating agents. Serial No. 415,851; May 9. Class 6.
Monakad Bros. Inc., New York, N. Y. Piece goods. Serial No. 416,071; May 9. Class 42.
Mutual Rosenbloom Corporation, New York, N. Y. Dresses. Serial No. 412,520; May 9. Class 39.
Mutual Rosenbloom Corporation, New York, N. Y. Women's and misses' wearing apparel. Serial No. 412,522; May 9. Class 39.
Myers, Herbert G., doing business as My-Len Sales Company, Chicago, Ill. Hosiery. Serial No. 414,077; May 9. Class 39.
My-Len Sales Company. (See Myers, Herbert G.)
National Carbon Company, Inc., New York, N. Y. Carbon and graphite products. Serial No. 416,965; May 9. Class 12.
National Industries for the Blind, New York, N. Y. Linen towels, waffle mats, hit and miss rugs, etc. Serial No. 416,812; May 9. Class 42.
National Silk Company, Inc. The, South Coventry, Conn. Threads, yarns, and novelty yarns. Serial No. 416,263; May 9. Class 43.
Noton, T., Oldham, England. Belt dressing. Serial No. 412,826; May 9. Class 4.
Nunnally Company, The, Atlanta, Ga. Candy. Serial No. 415,859; May 9. Class 46.
Nu-Way Shoe Co., Inc., New York, N. Y. Women's and children's shoes. Serial No. 417,060; May 9. Class 39.
Oil Tool Manufacturing Co. (See Bradshaw, J. C.)
Orange-Crush Company, Chicago, Ill. Beverages and compound concentrates and sirups for the manufacture thereof. Serial No. 416,475; May 9. Class 45.

Parfumerie Roger et Gallet, Societe Anonyme, Paris, France. Toilet soaps, soap pastes, soap powders, etc. Serial No. 416,581; May 9.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Suspenders, belts, and hose supporters. Serial No. 416,384; May 9. Class 39.
Perfect Garment Company. (See Sobelman, Morris.)
Perichon, Suzanne, Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 417,414; May 9. Class 6.
Pharmacal Products, Inc., New York, N. Y. Medicinal preparation. Serial No. 416,476; May 9. Class 6.
Pine Hill Lime & Stone Company, Pine Hill, Ky. Masonry cement, stucco, and a plastic cement. Serial No. 408,205; May 9. Class 12.
Pruden Coal & Coke Company, Knoxville, Tenn. Coal. Serial No. 414,575; May 9. Class 1.
Radiant Finish Company, Chicago, Ill. Varnish-like finish. Serial No. 415,186; May 9. Class 16.
Ragan, Mary E., Centerton, Ind. Liniment and herb compound. Serial No. 416,744; May 9. Class 6.
Rand, Harry, doing business as Rand & Rand, Philadelphia, Pa. Dresses. Serial No. 403,521; May 9. Class 39.
Rath Packing Company, The, Waterloo, Iowa. Meat loaf. Serial No. 416,870; May 9. Class 46.
Raytheon Manufacturing Company, Newton, Mass. Devices for controlling or modifying electrical currents. Serial No. 413,736; May 9. Class 21.
Refinite Corporation, The, Omaha, Nebr. Water softening apparatus. Serial No. 414,238; May 9. Class 13.
Regent Braid and Trimming Co. Inc., New York, N. Y. Yarn. Serial No. 416,438; May 9. Class 43.
Remington Rand Inc., Buffalo, N. Y. Copyholders. Serial No. 416,582; May 9. Class 37.
Reno Brewing Company, Inc., Reno, Nev. Beer. Serial No. 404,490; May 9. Class 48.
Rex Products Corporation, New York, N. Y. Cigarette cases. Serial No. 416,479; May 9. Class 8.
Riggio Tobacco Corporation, New York, N. Y. Cigarettes. Serial No. 416,787; May 9. Class 17.
Robert, Evelyn W., Washington, D. C. Newspaper column. Serial No. 415,056; May 9. Class 38.
Rosenblatt, Sol L., & Co., Inc., New York, N. Y. Nightgowns, slips, pajamas, etc. Serial No. 416,160; May 9. Class 39.
Rossano, G., & Bro. Inc., New York, N. Y. Canned tomatoes. Serial No. 414,577; May 9. Class 46.
Royal Knitting Mills, Inc., Chicago, Ill. Mittens and gloves. Serial No. 413,200; May 9. Class 39.
Rubin, Ben, Inc., New York, N. Y. Dresses. Serial No. 416,701; May 9. Class 39.
Runnymede Mills, Inc., Tarboro, N. C. Hosiery. Serial No. 416,748; May 9. Class 39.
Safeway Stores, Inc., doing business as General Food Products Co., Vernon and Oakland, Calif. Canned tomatoes. Serial No. 415,667; May 9. Class 46.
Sage, Peggy, Inc., New York, N. Y. Nail polish. Serial No. 417,714; May 9. Class 6.
Salz Brothers, Inc., New York, N. Y. Flashlights. Serial No. 413,913; May 9. Class 21.
Saravel, Inc., New York, N. Y. Toilet water, face powder, perfume, etc. Serial Nos. 416,917–20; May 9. Class 6.
Schering Corporation, Bloomfield, N. J. Medicinal preparation. Serial No. 416,619; May 9. Class 6.
Schick, Harry C., Inc., Newark, N. J. Necklace clasps and snaps and other articles of jewelry. Serial No. 410,439; May 9. Class 28.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Adhesive medicated shields, pads or plasters. Serial No. 416,968; May 9. Class 6.
Schrenk & Company, Hoboken, N. J. Mirrors. Serial No. 411,755; May 9. Class 32.
Schuessler, Hamilton Company, St. Louis, Mo. Beverages, and syrups and extracts for making the same. Serial No. 417,304; May 9. Class 45.
Sea Island Thread Mfg. Corp., New York, N. Y. Rubber covered thread. Serial No. 415,265; May 9. Class 43.
Sears, Roebuck and Co., Chicago, Ill. Razor blades. Serial No. 415,147; May 9. Class 23.
Seattle Drug Co., Inc., Seattle, Wash. Antiseptic skin lotions. Serial No. 406,154; May 9. Class 6.
Service Instruments Inc., New York, N. Y. Radio testing units, testing instruments, and measuring instruments. Serial No. 415,790; May 9. Class 26.
Shannon Hosiery Mills, Inc., Columbus, Ga. Hosiery. Serial No. 416,875; May 9. Class 39.
Shedd Products Company, Detroit, Mich. Oleomargarine. Serial No. 416,818; May 9. Class 46.
Sheldon, F. M., doing business as Super-Digester Products Company, Pasadena, Calif. Vitamin mineral supplement for dogs and cats. Serial No. 416,001; May 9. Class 6.
Shirley Silk Co., Inc., New York, N. Y. Silk textile fabrics in the piece. Serial No. 416,483; May 9. Class 42.
Silver Springs Water Company, Detroit, Mich. Beverage, and sirup and extract for making the same. Serial No. 416,620; May 9. Class 45.
Simon, Harry A., & Bro., New York, N. Y. Gloves and mittens, bathing suits and trunks, etc. Serial No. 413,690; May 9. Class 39.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Piece goods. Serial No. 403,019; May 9. Class 42.
Smith, Kate, New York, N. Y. Slips, panties, nightgowns, etc. Serial No. 416,075; May 9. Class 39.
Smith, Landon P., Inc., Irvington, N. J. Bill-boards. Serial No. 416,819; May 9. Class 50.
Sobelman, Morris, doing business as Perfect Garment Company, Baltimore, Md. Sports wear for women. Serial No. 415,535; May 9. Class 39.
Sociedad Agricola Paramonga, Lima, Peru. Granulated sugar. Serial No. 416,626; May 9. Class 46.
Sociedad Agricola Paramonga, Lima, Peru. Granulated sugar. Serial No. 416,629; May 9. Class 46.
Society of Chemical Industry in Basle, Basel, Switzerland. Tanning agents and textile assistants. Serial No. 403,477; May 9. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Tanning agents and textile assistants. Serial No. 403,479; May 9. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Female sex hormones preparation. Serial Nos. 416,777–8; May 9. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Leather pigment finishing colors. Serial No. 416,799; May 9. Class 6.
Southern Pine Chemical Company. (See Glidden Company.)
Sparks-Withington Company, The, Jackson, Mich. Electric fence controller apparatus. Serial No. 415,232; May 9. Class 21.
Square D Company, Detroit, Mich. Electromagnetically operated magnetic switches. Serial No. 414,843; May 9. Class 21.
Stanis. (See Stanley, Sinclair C.)
Stanley, Sinclair C., doing business as Stanis, Chicago, Ill. Laxative tablets. Serial No. 417,032; May 9. Class 6.
Stern, Merritt Co., Inc., New York, N. Y. Neckties. Serial No. 415,307; May 9. Class 39.
Stern, Merritt Co., Inc., New York, N. Y. Neckties. Serial No. 415,310; May 9. Class 39.
Stewart-Warner Corporation, Chicago, Ill. Electric ranges and parts therefor. Serial No. 413,652; May 9. Class 21.
Stover, Russell, doing business as Zephyr Freeze Company, Kansas City, Mo. Ice cream, ices, sherbets, etc. Serial No. 410,561; May 9. Class 46.
Streicher Mfg. Company, Newark, N. J. Finger rings and finger ring findings. Serial No. 416,525; May 9. Class 28.
Sturdiwheat Company. (See Kaehler, Arnold A.)
Sturm, Sigmund, New York, N. Y. Ladies' hats and dresses. Serial No. 416,164; May 9. Class 39.
Superb Glove Company, The, Johnstown, N. Y. Gloves. Serial No. 416,122; May 9. Class 39.
Super-Digester Products Company. (See Sheldon, F. M.)
Supreme Olive Oil Corporation, San Fernando, Calif. Serial No. 416,662; May 9. Class 6.
Susquehanna Collieries Company, Cleveland, Ohio. Anthracite coal. Serial No. 398,266; May 9. Class 1.
Table-tennis sets. Universal Table Tennis Corporation. Serial No. 417,313; May 9. Class 22.
The-Cab-Ni-Tex Company. (See Findley, Lester L.)
Towson Nurseries, Inc., Towson, Md. Publication. Serial No. 415,529; May 9. Class 38.
Tracey, John J., Company, Chicago, Ill. Toilet soaps. Serial No. 417,036; May 9. Class 4.
Tringle Shoe Co. (See Bashkes, Hyman.)
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Gasoline lanterns, pilot cigarette lighters, woven wicks, etc. Serial No. 414,128; May 9. Class 34.
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Spark plugs, electric vacuum cleaners, etc. Serial No. 414,131; May 9. Class 21.
Tyree, J. S., Chemist, Inc., Washington, D. C. Liquid medicinal prepartions. Serial No. 417,067; May 9. Class 6.
Ulmann, Bernard, Co. Inc., New York, N. Y. Art needlework package outfits. Serial No. 415,426; May 9. Class 40.
Union Oil Company of California, Los Angeles, Calif. Polishing waxes, and self-polishing wax. Serial No. 416,489; May 9. Class 16.
Union Oil Company of California, Los Angeles, Calif. Metal polish. Serial No. 416,490; May 9. Class 4.
United Refining Co., Russell, Kans. Gasoline, motor oils, and automobile greases. Serial No. 405,707; May 9. Class 15.
Universal Table Tennis Corporation, Boston, Mass. Table-tennis sets. Serial No. 417,313; May 9. Class 22.
Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort-on-the-Main-Heddernheim, Germany. Bituminous adhesives and cements, and luting materials. Serial No. 413,847; May 9. Class 12.
Viking Tool & Machine Corporation, The, Belleville, N. J. Machinery, tools, and parts thereof. Serial No. 413,035; May 9. Class 23.
Viscosity Oil Company, Chicago, Ill. Lubricating and penetrating oils. Serial No. 416,218; May 9. Class 15.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Pork sausages. Serial No. 415,364; May 9. Class 46.

Warner, William R., & Co., Inc., New York, N. Y. Stabilized solution of the total, undenatured, purified glycosides of digitalis, U. S. P. Serial No. 416,711; May 9. Class 6.
Whitmire Research Corp., St. Louis, Mo. Insecticidal concentrates. Serial No. 417,109; May 9. Class 6.
Whyte & Mackay, Limited, Glasgow, Scotland. Whisky. Serial No. 414,584; May 9. Class 49.
Windmuster Draft Control Co. (See Franks, Roye W.)
Winthrop Chemical Company, Inc., New York, N. Y. Vitamin B complex preparation. Serial No. 417,353; May 9. Class 6.
Wunder Brewing Company, Oakland, Calif. Beverages and sirups for making the same. Serial No. 417,247; May 9. Class 45.
Zanol Products Co., The, Cincinnati, Ohio. Dog food. Serial No. 417,317; May 9. Class 46.
Zephyr Freeze Company. (See Stover, Russell.)

LIST OF REGISTRANTS OF TRADE-MARKS

Aberfoyle Manufacturing Co., Chester, Pa. Cotton yarns and yarns of all types. 367,219; May 9; Serial No. 413,664; published Feb. 14, 1939. Class 43.
Albert Laboratories. (See Binash, Albert H.)
Algin Corporation of America, New York, N. Y. Colloidal stabilizer for ice cream. 367,086; May 9; Serial No. 409,756; published Feb. 28, 1939. Class 46.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Men's wear. 367,074; May 9; Serial No. 408,825; published Feb. 7, 1939. Class 39.
Allspline Corporation, McGaheysville, Va. Floor blocks and tiles. 367,276; May 9; Serial No. 414,425; published Feb. 28, 1939. Class 12.
Alta Loma Heights Citrus Association. (See Valley View Ranch.)
Amalgamated Leather Companies, Inc., Wilmington, Del. Leather. 367,277; May 9; Serial No. 414,426; published Feb. 28, 1939. Class 1.
American Dairies, Incorporated, Kansas City, Mo. Dehydrated cereal grasses. 367,058; May 9; Serial No. 407,210; published Feb. 28, 1939. Class 46.
American Fork & Hoe Company, The, Cleveland, Ohio. Axes, hammers, hatchets, etc. 367,104; May 9; Serial No. 411,362; published Feb. 28, 1939. Class 23.
American Hardware Corporation, The, New Britain, Conn. Locks. 367,203; May 9; Serial No. 413,466; published Feb. 21, 1939. Class 25.
American Mills Company, The, New Haven, Conn. Narrow elastic webbing. 367,129; May 9; Serial No. 412,244; published Feb. 7, 1939. Class 40.
Anderson, Marshall, Los Angeles, Calif. Fresh fruit and vegetables. 367,098; May 9; Serial No. 410,983; published Feb. 28, 1939. Class 46.
Anitra, Inc., New York, N. Y. Ladies' coats and suits. 367,187; May 9; Serial No. 413,327; published Feb. 21, 1939. Class 39.
Ansonia Clock Company, Inc., The, New York, N. Y. Electrical switches. 367,199; May 9; Serial No. 413,431; published Feb. 28, 1939. Class 21.
Arbiter, Julius, Chicago, Ill. Shoes, coats, suits, etc. 367,100; May 9; Serial No. 410,893; published Jan. 17, 1939. Class 39.
Arden, Elizabeth, Inc., New York, N. Y. Perfumes. 367,052; May 9; Serial No. 406,703; published Feb. 28, 1939. Class 6.
Aris Gloves, Inc., New York, N. Y. Gloves and mittens. 367,122; May 9; Serial No. 412,020; published Jan. 17, 1939. Class 39.
Artcraft Wallpaper Company, Inc. (See Buchbinder, Benjamin, assignor.)
Associated Biscuit Co., doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y. Crackers and more particularly graham crackers and wafers. 367,220; May 9; Serial No. 413,696; published Feb. 28, 1939. Class 46.
Association of Gas Appliance and Equipment Manufacturers, New York, N. Y. Gas ranges. 367,337; May 9. Class 34.
Atlas Heating & Ventilating Co. Ltd., San Francisco, Calif. Hot air furnaces and air conditioning units. 367,333; May 9. Class 34.
Augstein, S., & Co., College Point, N. Y. Dresses, play suits, and bathing suits. 367,173; May 9; Serial No. 413,175; published Feb. 14, 1939. Class 39.
Augstein, S., & Co., College Point, N. Y. Dresses, play suits, and bathing suits. 367,174; May 9; Serial No. 413,177; published Feb. 14, 1939. Class 39.
Auto-Gram Manufacturing Co., Inc., New York, N. Y. Initials, alphabetical letters, and monograms made of fabric. 367,079; May 9; Serial No. 409,117; published Feb. 7, 1939. Class 40.
Avon Sole Company, Holbrook, Mass. Composition soles and heels for shoes. 367,144; May 9; Serial No. 412,691; published Feb. 7, 1939. Class 39.
B. V. D. Corporation, The, Baltimore, Md. Clothing. 367,184; May 9; Serial No. 413,295; published Feb. 7, 1939. Class 39.
Babycraft Imports Co., New York, N. Y. Dresses, rompers, slips, etc. 367,188; May 9; Serial No. 413,329; published Feb. 7, 1939. Class 39.
Backstay Machine and Leather Co., The, assignor to Backstay Welt Company, Union City, Ind. Finishing welts or binding. 124,949; renewed Apr. 1, 1939.
Bamberger, L., & Co., Newark, N. J. Women's hosiery and gloves. 367,102; May 9; Serial No. 411,265; published Jan. 3, 1939. Class 39.
Barreau, Annette, Paris, France. Dentrifrices. 367,089; May 9; Serial No. 410,424; published Feb. 7, 1939. Class 6.
Barrett Company, The, New York, N. Y. Fertilizer. 367,134; May 9; Serial No. 412,367; published Feb. 21, 1939. Class 10.
Barrett Company, The, New York, N. Y. Mineral wool insulating material. 367,300; May 9; Serial No. 414,650; published Feb. 28, 1939. Class 12.
Bausch & Lomb Optical Company, Rochester, N. Y. Binoculars and field glasses. 367,253; May 9; Serial No. 414,137; published Feb. 28, 1939. Class 26.
Behr-Manning Corporation, Troy, N. Y. Fabric treated with non-slipping material. 367,278; May 9; Serial No. 414,430; published Feb. 28, 1939. Class 50.
Belle Knitting Corp., New York, N. Y. Ladies' and children's underwear, and children's pajamas and nightgrowns. 367,194; May 9; Serial No. 413,387; published Feb. 14, 1939. Class 39.
Belle Meade Products Company, Incorporated, Belle Meade, Va. Bourbon whiskey. 367,326; May 9; Serial No. 415,030; published Feb. 28, 1939. Class 49.
Belnap and Thompson, Inc., Chicago, Ill. Writing paper and envelopes. 367,046; May 9; Serial No. 405,681; published Feb. 28, 1939. Class 37.
Bel-Tex Co., New York, N. Y. Face cream, cream for treatment of skin infection, cold cream, etc. 367,314; May 9; Serial No. 414,856; published Feb. 28, 1939. Class 6.
Berst-Forster-Dixfield Company, Dixfield, Maine, and New York, N. Y. Waxed paper. 367,286; May 9; Serial No. 414,481; published Feb. 28, 1939. Class 37.
Best & Co. Inc., New York, N. Y. Hats. 367,127; May 9; Serial No. 412,212; published Jan. 3, 1939. Class 39.
Binash, Albert H., doing business as Albert Laboratories, Chicago, Ill. Medicinal preparation. 367,028; May 9; Serial No. 407,047; published Oct. 25, 1938. Class 6.
Birtcher Corporation, The, Los Angeles, Calif. Electrosurgical apparatus. 367,316; May 9; Serial No. 414,911; published Feb. 28, 1939. Class 44.
Blechman, S. & Sons, Inc., New York, N. Y. Sweaters, bathing suits and bathing trunks. 367,288; May 9; Serial No. 414,518; published Feb. 21, 1939. Class 39.
Bloomingdale Bros., Inc., New York, N. Y. Whiskey. 367,346; May 9. Class 49.
Bond Shoe Co., Inc., New York, N. Y. Women's shoes. 367,081; May 9; Serial No. 409,341; published Jan. 3, 1939. Class 39.
Bon Marche, The. (See Allied Stores Corporation.)
Bonne Bell, Inc., Cleveland, Ohio. Face powders, face rouges, lipsticks, etc. 367,225; May 9; Serial No. 413,772; published Feb. 28, 1939. Class 6.
Bonwit Teller, Inc., New York, N. Y. Women's and misses' shoes; hats, scarfs, etc. 367,274; May 9; Serial No. 414,390; published Feb. 28, 1939. Class 39.
Botany Worsted Mills, Passaic, N. J. Necktles. 367,141; May 9; Serial No. 412,541; published Jan. 3, 1939. Class 39.
Botany Worsted Mills, Passaic, N. J. Necktles. 367,180; May 9; Serial No. 413,217; published Jan. 24, 1939. Class 39.
Boyd Tea Company, Portland, Oreg. Packaged coffee. 367,114; May 9; Serial No. 411,852; published Feb. 28, 1939. Class 46.
Boyd Tea Company, Portland, Oreg. Packaged spices. 367,115; May 9; Serial No. 411,853; published Feb. 28, 1939. Class 46.
Brohman, John J., doing business as Nymoc Products Company, Toronto, Ontario, Canada. Fabric cleaning and spot removing preparations. 367,166; May 9; Serial No. 413,021; published Feb. 28, 1939. Class 4.
Brown, L. L., Paper Company, Adams, Mass. Writing papers. 367,240; May 9; Serial No. 414,022; published Feb. 28, 1939. Class 37.
Buchbinder, Benjamin, assignor to Artcraft Wallpaper Company, Inc., New York, N. Y. Wall-papers. 126,646; renewed Sept. 30, 1939.
Buddy Manufacturing, Inc., New York, N. Y. Ladies' pajamas. 367,063; May 9; Serial No. 407,529; published Feb. 21, 1939. Class 39.
Burdett Oxygen Company, The, Denver, Colo., assignor, by mesne assignments, to Oxweld Acetylene Company, New York, N. Y. Welding and cutting torches. 126,591; renewed Sept. 23, 1939.
Caballero, Luis M., Habana, Cuba. Pharmaceutical preparation. 367,019; May 9; Serial No. 399,881; published Feb. 15, 1938. Class 6.
Calbar Paint and Varnish Company, Philadelphia, Pa. Coating material. 367,336; May 9. Class 12.
Call, A. F., Estate, Corona, Calif., assignor to Call Ranch. Fresh citrus fruit. 367,051; May 9; Serial No. 406,370; published Jan. 17, 1939. Class 46.

Capewell Manufacturing Company, The, Hartford, Conn. Planes and hammers. 367,020; May 9; Serial No. 400,049; published Feb. 28, 1939. Class 23.
Carnegie-Illinois Steel Corporation, Pittsburgh, Pa. Metallic roofing sheets. 367,091–2; May 9; Serial Nos. 410,499–500; published Feb. 21, 1939. Class 12.
Carney, Don, New York, N. Y. Raincoats, ponchos, snow suits, etc. 367,123; May 9; Serial No. 412,023; published Jan. 3, 1939. Class 39.
Carr, Lyman W., Fostoria, Ohio. Coating effecting polishes. 367,006; May 9; Serial No. 386,203; published May 9, 1937. Class 16.
Celanese Corporation of America, New York, N. Y. Yarns. 367,189–90; May 9; Serial Nos. 413,333–4; published Feb. 7, 1939. Class 43.
Chase, Henry W., New York, N. Y. Commentaries and economic graphs, etc. 367,066; May 9; Serial No. 408,050; published Feb. 28, 1939. Class 38.
Chicago Flexible Shaft Company, Chicago, Ill. Hand operated electrically driven drills. 367,025; May 9; Serial No. 400,683; published Feb. 28, 1939. Class 21.
Chicago Mail Order Company, Chicago, Ill. Coats, suits, dresses, etc. 367,118; May 9; Serial No. 411,940; published Feb. 7, 1939. Class 39.
Cliff & Pickering, Ltd., New York, N. Y. Scotch whisky. 367,292; May 9; Serial No. 414,554; published Feb. 28, 1939. Class 49.
Coakley, James H., Brockton, Mass. Medicines. 367,185; May 9; Serial No. 413,297; published Feb. 21, 1939. Class 6.
Cold Spring Bleachery, Yardley, Pa. Spun rayon and spun rayon mixtures. 367,226; May 9; Serial No. 413,775; published Feb. 28, 1939. Class 42.
Commercial Milling Company, Detroit, Mich. Wheat-flour. 125,562; renewed May 27, 1939.
Commonwealth Engineering Corporation, Dayton, Ohio. Lacquers, paints, paint enamels, and varnishes. 367,075; May 9; Serial No. 408,832; published Dec. 20, 1938. Class 16.
Commonwealth Shoe and Leather Company, Whitman, Mass. Men's shoes. 367,042; May 9; Serial No. 404,938; published Jan. 10, 1939. Class 39.
Commonwealth Shoe and Leather Company, Whitman, Mass. Men's shoes. 367,195; May 9; Serial No. 413,392; published Feb. 14, 1939. Class 39.
Consolidated Mining & Smelting Company of Canada, Limited, The, Montreal, Quebec, Canada. Chemical fertilizers. 367,071; May 9; Serial No. 408,596; published Feb. 28, 1939. Class 10.
Consolidated Mining & Smelting Company of Canada, Limited, The, Montreal, Quebec, Canada. Chemical fertilizers. 367,073; May 9; Serial No. 408,822; published Feb. 28, 1939. Class 10.
Continental-Diamond Fibre Company, Newark, Del. Synthetic resinous products. 367,279; May 9; Serial No. 414,436; published Feb. 28, 1939. Class 1.
Corris, May, Foods Company, doing business as May Corris Foods, Rochester, N. Y. Sauce for meats, salads, and sea foods. 367,223; May 9; Serial No. 413,725; published Feb. 28, 1939. Class 46.
Coty, Inc., New York, N. Y. Rouge, compacts, face powder, etc. 367,124; May 9; Serial No. 412,082; published Feb. 14, 1939. Class 6.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 367,294; May 9; Serial No. 414,595; published Feb. 21, 1939. Class 6.
Crossfield Products Corporation, Los Angeles, Calif. Plastic composition. 367,110; May 9; Serial No. 411,680; published Feb. 21, 1939. Class 12.
Curtsy Incorporated, Brooklyn, N. Y. Hand cream, night cream, cold cream, etc. 367,047; May 9; Serial No. 405,768; published June 14, 1938. Class 6.
Cutler, Royal A., Spokane, Wash. Fresh vegetables. 367,061; May 9; Serial No. 407,368; published Nov. 29, 1938. Class 46.
Cynthia Mills, East Boston, Mass. Cotton and woolen thread. 367,171; May 9; Serial No. 413,113; published Feb. 14, 1939. Class 43.
Danver, Charles F., Pittsburgh, Pa. Newspaper column. 367,087; May 9; Serial No. 410,133; published Feb. 21, 1939. Class 38.
Dayton Spice Mills Co., The, Dayton, Ohio. Coffee and tea. 367,072; May 9; Serial No. 408,599; published Feb. 28, 1939. Class 46.
De Botelho, Martin, New York, N. Y. Face creams. 367,246; May 9; Serial No. 414,055; published Feb. 21, 1939. Class 6.
Dennis, W. J., & Company, Chicago, Ill. Weather strip. 367,191; May 9; Serial No. 413,336; published Feb. 14, 1939. Class 12.
Deppe, Emil E., doing business as E. E. Deppe, Duluth, Minn. Fish hooks and lures. 367,012; May 9; Serial No. 394,981; published Jan. 24, 1939. Class 22.
Dietene Company, The. (See Larx Company, Incorporated.)
Doyle Shoe Company Inc., Brockton, Mass. Shoes. 367,155–6; May 9; Serial Nos. 412,788–9; published Feb. 7, 1939. Class 39.
Drake Supply Co., Los Angeles, Calif. Rubber belting for machinery. 367,035; May 9; Serial No. 401,957; published Feb. 28, 1939. Class 35.
Driscoll-Bruck Co., Ltd., Portland, Oreg. Fish hooks. 367,242; May 9; Serial No. 414,059; published Feb. 28, 1939. Class 22.
Eagle Mattress Company Inc., Boston, Mass. Mattresses, studio couches, box springs, etc. 367,239; May 9; Serial No. 414,025; published Feb. 28, 1939. Class 32.
Eastern Footwear Corp., Dolgeville and New York, N. Y. Ladies' and misses' dress shoes and slippers. 367,128; May 9; Serial No. 412,221; published Feb. 28, 1939. Class 39.
Easy Washing Machine Corporation, Syracuse, N. Y. Laundry machine. 367,038; May 9; Serial No. 402,966; published July 26, 1938. Class 24.
Eby Shoe Corporation, Ephrata, Pa. Shoes. 367,170; May 9; Serial No. 413,089; published Feb. 28, 1939. Class 39.
Emmolo Bros., Cloverdale, to Emmolo Bros., Rutherford, Calif. Tomato paste. 125,134; renewed Apr. 15, 1939.
Even-Pul Foundations, New York, N. Y. Corselets, brassières, and girdles. 367,040; May 9; Serial No. 404,171; published Jan. 17, 1939. Class 39.
Excelsior Leather Washer Manufacturing Co., Rockford, Ill. Pump and valve leathers, and washers and gaskets of leather. 125,536; renewed Sept. 16, 1939.
Eye Catchers, Inc., New York, N. Y. Publication. 367,161; May 9; Serial No. 412,855; published Feb. 28, 1939. Class 38.
Fansteel Metallurgical Corporation, North Chicago, Ill. Alloys. 367,243; May 9; Serial No. 414,061; published Feb. 28, 1939. Class 14.
Fashion Features, Inc., New York, N. Y. Magazine. 367,029; May 9; Serial No. 401,053; published Feb. 21, 1939. Class 38.
Fawkes, Charles G., Denver, Colo. Can openers. 367,065; May 9; Serial No. 407,976; published Feb. 28, 1939. Class 23.
Fehr, Frank, Brewing Co., Incorporated, Louisville, Ky. Cereal beverage. 367,216; May 9; Serial No. 413,627; published Feb. 28, 1939. Class 45.
Feldman, Henry, doing business as Feldman Bros., New York, N. Y. Combination desk and table. 367,318; May 9; Serial No. 414,947; published Feb. 28, 1939. Class 32.
Feldman, Samuel R., doing business as Feld-Oral Co., New York, N. Y. Dentifrice. 367,105; May 9; Serial No. 411,491; published Feb. 28, 1939. Class 6.
Feld-Oral Co. (See Feldman, Samuel R.)
Finch, Joseph S., and Company, New York, N. Y. and Schenley, Pa. Rum, whiskey, gin, etc. 367,044; May 9; Serial No. 405,553; published Feb. 28, 1939. Class 49.
Firestone Tire & Rubber Company, The, Akron, Ohio. Tires. 367,329–30; May 9; Serial Nos. 415,160–1; published Feb. 28, 1939. Class 35.
Fleisher Yarns, Inc., New York, N. Y. Yarns. 367,178; May 9; Serial No. 413,213; published Feb. 7, 1939. Class 43.
Fleisher Yarns, Inc., New York, N. Y. Yarns. 367,179; May 9; Serial No. 413,214; published Feb. 21, 1939. Class 43.
Fosgood Corporation, Leominster, Mass. Combs. 367,172; May 9; Serial No. 413,122; published Jan. 24, 1939. Class 40.
Freed, Rudolph J. (See Williams, Daniel G., assignor.)
Freedman, A., & Sons Incorporated, doing business as John McVey Limited, New Bedford, Mass. Leather shoes. 367,043; May 9; Serial No. 405,153; published Feb. 7, 1939. Class 39.
Fried Ostermann Co., Milwaukee, Wis. Boys' coats. 367,331; May 9. Class 39.
Fulton Bag & Cotton Mills, Atlanta, Ga. Textile bags. 367,259; May 9; Serial No. 414,262; published Feb. 28, 1939. Class 2.
Funk Bros. Hat & Cap Company, St. Louis, Mo. Headwear. 367,200; May 9; Serial No. 413,443; published Feb. 14, 1939. Class 39.
Garcia Wine Corp., Long Island City, N. Y. Wines. 367,354; May 9. Class 47.
Gardner, P. A., Jr., doing business as Prince Gardner, St. Louis, Mo. Ladies' billfolds and key cases. 367,247; May 9; Serial No. 414,102; published Feb. 28, 1939. Class 3.
Gauvreau, Jerome J., doing business as J & G. Specialty, Pittsfield, Mass. Creams; lotions; ointments; etc. 367,090; May 9; Serial No. 410,465; published Feb. 28, 1939. Class 6.
General Dyestuff Corporation, New York, N. Y. Preparation for cleaning, washing, and scouring unspun wool. 367,107; May 9; Serial No. 411,601; published Feb. 28, 1939. Class 4.
General Motors Corporation, Detroit, Mich. Fever machines. 367,306; May 9; Serial No. 414,732; published Feb. 28, 1939. Class 44.
General Refrigeration Corporation, South Beloit, Ill. Refrigeration machines, refrigeration showcases, etc. 367,319; May 9; Serial No. 414,948; published Feb. 28, 1939. Class 31.
Glass Container Association of America, New York, N. Y. Glass bottles, jars, decanters, etc. 367,343; May 9. Class 33.
Glemby Company, Inc., The, New York, N. Y. Finger waving preparation. 367,301; May 9; Serial No. 414,657; published Feb. 28, 1939. Class 6.
Glenner, Francis R., doing business as Homogeneous Equipment Company, Downington, Pa. Linings of tin, lead, or the like, bonded to steel or other metals. 367,244; May 9; Serial No. 414,069; published Feb. 28, 1939. Class 14.

Globe Phone Manufacturing Corporation, New York, N. Y. Electrical hearing aid. 367,064; May 9; Serial No. 407,900; published Oct. 11, 1938. Class 44.
Gold Meadow Hosiery Co., New York, N. Y. Hosiery. 367,235; May 9; Serial No. 413,989; published Feb. 21, 1939. Class 39.
Golden State Company, Ltd., San Francisco, Calif. Product consisting of skim milk solids in powder form. 367,094; May 9; Serial No. 410,652; published Feb. 28, 1939. Class 46.
Goldmark, Adolph, & Sons, Corp., New York, N. Y. Canned vegetables, candy, mayonnaise, etc. 367,017; May 9; Serial No. 399,231; published Feb. 28, 1939. Class 46.
Goodall Worsted Co. (See Lesher, Whitman & Co., Inc.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber heels. 367,030; May 9; Serial No. 401,386; published Feb. 7, 1939. Class 39.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles. 367,048; May 9; Serial No. 405,773; published Feb. 21, 1939. Class 39.
Gossard, H. W., Co., The, Chicago, Ill. Girdles, panties, corsets, etc. 367,119; May 9; Serial No. 411,953; published Jan. 3, 1939. Class 39.
Gouldin, Benjamin, New York, N. Y. Board games. 367,308; May 9; Serial No. 414,780; published Feb. 28, 1939. Class 22.
Great Northern Chemical Co., San Francisco, Calif. Insecticides, ant sprays, ant powders, etc. 367,208; May 9; Serial No. 413,551; published Feb. 28, 1939. Class 6.
Green, Nat L., Co., Inc., New York, N. Y. Ladies' dresses. 367,234; May 9; Serial No. 413,943; published Feb. 21, 1939. Class 39.
Greenclay, Gerald M., Los Angeles, Calif. Hats, berets, sweaters, etc. 367,080; May 9; Serial No. 409,125; published Jan. 17, 1939. Class 39.
Greene, Tweed & Co., assignor to Greene, Tweed & Co., New York, N. Y. Machinery packing. 17,054; re-renewed Sept. 24, 1939.
Griswold Manufacturing Company, The, Erie, Pa. Sterilizers. 367,057; May 9; Serial No. 407,064; published Feb. 28, 1939. Class 23.
Guillon, Louis P., Ivry-sur-Seine, France. Perfume, toilet water, eau de cologne, etc. 367,289–90; May 9; Serial Nos. 414,525–6; published Feb. 21, 1939. Class 6.
Gulf Portland Cement Company, Houston, Tex. Masonry and Portland cement. 367,034; May 9; Serial No. 401,530; published Feb. 28, 1939. Class 12.
Hammond, John H., Jr., Gloucester, Mass. Eye wash. 367,039; May 9; Serial No. 403,765; published Feb. 21, 1939. Class 6.
Hampton Drug Co. (See Vincent, Francis M.)
Harlingen Canning Co., also doing business as Southern Sales Co., Harlingen, Tex. Canned citrus juices. 367,357; May 9. Class 45.
Hat Corporation of America, Norwalk, Conn. Hats for men. 367,212; May 9; Serial No. 413,581; published Feb. 14, 1939. Class 39.
Hazeltine, H. S., doing business as Hazeltine Packing Company, San Fernando, Calif. Fresh citrus fruits. 367,227; May 9; Serial No. 413,782; published Feb. 28, 1939. Class 46.
Hecker-Jones-Jewell Milling Company, assignor to Standard Milling Company, New York, N. Y. Wheat-flour and rye-flour. 125,341; renewed May 13, 1939.
Herendeen, Charles, & Son, Inc., Chicago, Ill. Flavor accelerator. 367,250; May 9; Serial No. 414,112; published Feb. 28, 1939. Class 46.
Hillman, Irving J., New York, N. Y. Shoes. 367,121; May 9; Serial No. 411,996; published Feb. 7, 1939. Class 39.
Hirsch Distilling Company, Kansas City, Mo. Straight bourbon whiskey. 367,295; May 9; Serial No. 414,600; published Feb. 28, 1939. Class 49.
Hollins, William, & Company, Limited, London, to William Hollins & Company, Limited, Nottingham, England. Clothing for women. 125,446–7; renewed May 20, 1939.
Hollywood Silk Mills, Los Angeles, Calif. Panties, foundation garments, bathing suits, etc. 367,221; May 9; Serial No. 413,712; published Feb. 21, 1939. Class 39.
Holtz, William R., Chicago, Ill. Bakers materials. 367,111; May 9; Serial No. 411,692; published Feb. 28, 1939. Class 46.
Homogeneous Equipment Company. (See Glenner, Francis R.)
Honor Maid Negligee Co., Inc., New York, N. Y. Night gowns, pajamas, negligees, etc. 367,008; May 9; Serial No. 391,476; published Feb. 28, 1939. Class 39.
Horlacher Brewing Company, Allentown, Pa. Beer and ale. 367,228; May 9; Serial No. 413,786; published Feb. 28, 1939. Class 48.
House, Jacob, & Sons, Buffalo, N. Y. Nutritive chocolate flavored drinks, chocolate flavored syrup and chocolate flavor powder. 367,157; May 9; Serial No. 412,812; published Feb. 28, 1939. Class 46.
Hudson, J. L., Company, The, Detroit, Mich. Women's, misses', and juniors' coats. 367,236; May 9; Serial No. 413,991; published Feb. 14, 1939; Class 39.
Hughes, Edward J., doing business as Edward J. Hughes Sales Company, Mineola, N. Y. Poultry grit. 367,082; May 9; Serial No. 409,525; published Feb. 28, 1939. Class 1.
Hyman & Hyman, a Corporation, New York, N. Y. Cream cosmetic. 367,320–1; May 9; Serial Nos. 414,951–2; published Feb. 28, 1939. Class 6.
Idol Associated Mills Incorporated, New York, N. Y. Brassières, corsets, girdles, etc. 367,201; May 9; Serial No. 413,445; published Feb. 14, 1939. Class 39.
Industrial Garment Co. (See Vineberg, Louis.)
Insignia Tie Company. (See Perlin, Sylvia O.)
International Latex Corporation, Dover and Play-Tex Park, Dover, Del. Latex aprons. 367,204; May 9; Serial No. 413,481; published Feb. 14, 1939. Class 39.
Irving Beverage Co., Inc, Chicago, Ill. Beverages and extracts and flavorings used in making the same. 367,296; May 9; Serial No. 414,631; published Feb. 28, 1939. Class 45.
J & G. Specialty. (See Gauvrea, Jerome J.)
Jadwigh Remedies, Inc., Brooklyn, N. Y. Face cream. 367,016; May 9; Serial No. 398,316; published Aug. 16, 1938. Class 6.
Johnson Machine & Press Corporation, Elkhart, Ind. Punch presses. 367,041; May 9; Serial No. 404,409; published Feb. 28, 1939. Class 23.
Johnson, S. C., & Son, Inc., Racine, Wis. Cleaner for removing blemishes, white rings, etc., from wood surfaces. 367,297; May 9; Serial No. 414,633; published Feb. 28, 1939. Class 4.
Johnson, S. C., & Son, Inc., Racine, Wis. Liquid polish. 367,325; May 9; Serial No. 415,022; published Feb. 28, 1939. Class 16.
Johnston, Everett, doing business as Subtropical Sales Company, Lucadia, Calif. Fresh limes. 367,011; May 9; Serial No. 393,490; published Feb. 28, 1939. Class 46.
Joubert, Maison, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 367,018; May 9; Serial No. 399,240; published Jan 11, 1938; Class 6.
K & K Inc., Andover, and North Andover, Mass. Coin boxes. 367,186; May 9; Serial No. 413,311; published Feb. 28, 1939. Class 25.
Kayser, Julius, & Co., New York, N. Y. Underwear, gloves, hosiery, etc. 367,032; May 9; Serial No. 401,489; published Feb. 7, 1939. Class 39.
Kendale Mfg. Corp., New York, N. Y. Trousers, mackinaw jackets, etc. 367,222; May 9; Serial No. 413,716; published Feb. 14, 1939. Class 39.
Keystone Lubricating Company, Philadelphia, Pa. Lubrication fittings. 367,078; May 9; Serial No. 409,098; published Feb. 28, 1939. Class 23.
Kimberly-Clark Corporation, Neenah, Wis. Catalog and booklet cover papers. 367,026; May 9; Serial No. 400,769; published Oct. 4, 1938. Class 37.
King Features Syndicate, Inc., New York, N. Y. Cartoons. 367,356; May 9. Class 38.
Kirby's Mineral Products, Union, S. C. Iron tonic and astringent. 367,302; May 9; Serial No. 414,662; published Feb. 21, 1939. Class 6.
Kleinert, I. B., Rubber Company, New York, N. Y. Girdles and corsets. 367,165; May 9; Serial No. 412,910; published Jan. 24, 1939. Class 39.
Knapp Electric Shaver, Inc., Long Island City, N. Y., assignor to Knapp-Monarch Company, St. Louis, Mo. Hair clippers and electric shavers. 367,339–42; May 9. Class 23.
Knapp-Monarch Company, doing business as Kwikway Company, St. Louis, Mo. Electric vibrators, infra red ray lamps, and therapeutic lamps. 367,005; May 9; Serial No. 381,768; published Feb. 22, 1938. Class 44.
Knapp-Monarch Company, St. Louis, Mo. Dry shavers. 367,350; May 9. Class 23.
Kresge, S. S., Company, Detroit, Mich., assignor to Rhmel, Inc., West Orange, N. J. Creams. 125,230; renewed Apr. 22, 1939.
Kwikway Company. (See Knapp-Monarch Company.)
Lamm Brothers, Incorporated, Baltimore, Md. Top coats, overcoats, and rainproof coats, etc. 367,009; May 9; Serial No. 392,372; published Aug. 24, 1937. Class 39.
Laros Textiles Company, Bethlehem, Pa. Women's slips. 367,158; May 9; Serial No. 412,818; published Feb. 14, 1939. Class 39.
Larus & Brother Co., Inc., doing business as Larus & Brother Co., Inc., Radio Station WRVA, Richmond, Va. Monthly periodical. 367,192; May 9; Serial No. 413,346; published Feb. 21, 1939. Class 38.
Larx Company, Incorporated, also doing business as The Dietene Company, Minneapolis, Minn. Concentrated food products. 367,067; May 9; Serial No. 408,111; published Feb. 28, 1939. Class 46.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Self-rising flour. 126,443; renewed Aug. 26, 1939.
Lees Manufacturing Co., The, Westport, Conn., and New York, N. Y. Twines, cord and tinsel cords. 367,241; May 9; Serial No. 414,034; published Feb. 21, 1939; Class 7.
Lentheric, Incorporated, New York, N. Y. Perfumes and cosmetic creams. 367,309; May 9; Serial No. 414,786; published Feb. 21, 1939. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes and cosmetic creams. 367,310; May 9; Serial No. 414,785; published Feb. 21, 1939. Class 6.
Lesher, Whitman & Co., Inc., New York, N. Y., to Goodall Worsted Co., Sanford, Maine, successor. Piece goods. 126,557; renewed Sept. 16, 1939.

Levenson Company, The, Boston, Mass. Coats and suits. 367,237; May 9; Serial No. 413,995; published Feb. 21, 1939. Class 39.
Lewis, Bennett, New York, N. Y. Game. 367,132; May 9; Serial No. 412,346; published Feb. 28, 1939. Class 22.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 367,275; May 9; Serial No. 414,406; published Feb. 21, 1939. Class 6.
Linpark Clothing Corp., New York, N. Y. Suits, topcoats, overcoats, etc. 367,023; May 9; Serial No. 400,603; published Feb. 14, 1939. Class 39.
Lister, James R., New York, N. Y. Textile fabrics. 367,344; May 9. Class 42.
Lively, Sallie K., Amarillo, Tex. Cinnamon rolls. 367,053; May 9; Serial No. 406,929; published Feb. 28, 1939. Class 46.
Loeser, Frederick, & Co., Inc., Brooklyn, N. Y. Men's outer shirts. 367,207; May 9; Serial No. 413,517; published Feb. 21, 1939. Class 39.
Loewus, G., & Co., Inc., Newark, N. J. Wines. 367,013; May 9; Serial No. 395,305; published Nov. 30, 1937. Class 47.
London House, Ltd., New York, N. Y. Cigars and smoking and chewing tobacco. 367,348; May 9. Class 17.
Lord & Taylor, New York, N. Y. Bathing suits, sweaters, blouses, etc. 367,068; May 9; Serial No. 408,247; published Feb. 28, 1939. Class 39.
Magic Snap-On Dress Co., Inc., The, New York, N. Y. Clothing. 367,037; May 9; Serial No. 402,380; published Feb. 21, 1939. Class 39.
Maison Blanche Company, New Orleans, La. Men's wearing apparel. 367,139; May 9; Serial No. 412,536; published Feb. 7, 1939. Class 39.
Maison Blanche Company, New Orleans, La. Ladies' wearing apparel. 367,140; May 9; Serial No. 412,537; published Jan. 17, 1939. Class 39.
Maison Blanche Company, New Orleans, La. Sheets, pillow cases, table cloths, etc. 367,224; May 9; Serial No. 413,765; published Feb. 28, 1939. Class 42.
Makransky, S., & Sons, Philadelphia, Pa. Suits, coats, vests, etc. 367,175–8; May 9; Serial Nos. 413,189–90; published Feb. 7, 1939. Class 39.
Many, Blanc & Co., Inc., Chicago, Ill. Rum. 367,315; May 9; Serial No. 414,879; published Feb. 28, 1939. Class 49.
Mariana Grove Packers, Inc., Fort Myers, Fla. Fresh citrus fruits. 367,076; May 9; Serial No. 408,959; published Feb. 28, 1939. Class 46.
Mariana Grove Packers, Inc., Fort Myers, Fla. Fresh citrous fruits. 367,077; May 9; Serial No. 409,047; published Feb. 28, 1939. Class 46.
Maris, James B., doing business as J. B. Maris Co., Bloomfield, N. J. Aquarium equipment. 367,014; May 9; Serial No. 396,150; published July 12, 1938. Class 21.
Marshall Field & Company, Chicago, Ill. Women's lounging robes. 367,217; May 9; Serial No. 413,629; published Feb. 14, 1939. Class 39.
Mavest Inc., New York, N. Y. Coats, suits, sweaters, etc. 367,083; May 9; Serial No. 409,617; published Jan. 17, 1939. Class 39.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Coats, suits, and gloves. 367,153; May 9; Serial No. 412,773; published Feb. 7, 1939. Class 39.
Mayer, Oscar, & Company, Chicago, Ill. Meats and meat products, etc. 367,069; May 9; Serial No. 408,350; published Feb. 28, 1939. Class 46.
McConnon & Company, Winona, Minn. Insecticides. 367,260–1; May 9; Serial Nos. 414,267–8; published Feb. 28, 1939. Class 6.
McCurragh Organization Incorporated, New York, N. Y. Men's neckties and mufflers. 367,167; May 9; Serial No. 413,023; published Jan. 24, 1939. Class 39.
McVey, John, Limited. (See Freedman, A., & Sons Incorporated.)
Merkel & Kienlin, G. m. b. H., Esslingen-Neckar, Germany. Blankets, tricots, and bed covers. 367,054; May 9; Serial No. 406,934; published Feb. 28, 1939. Class 42.
Merrell, Wm. S., Company, The, Cincinnati and Lockland Station, Cincinnati, Ohio. Magnesium preparation for medicinal purposes. 367,280; May 9; Serial No. 414,459; 414,459; published Feb. 21, 1939. Class 6.
Metalmen Inc., Detroit, Mich. Tools and accessories. 367,099; May 9; Serial No. 410,963; published Feb. 28, 1939. Class 25.
Mid-States Shoe Co., Milwaukee, Wis. Shoes. 367,116; May 9; Serial No. 411,891; published Jan. 17, 1939. Class 39.
Midwest Mfg. Company, Galesburg, Ill. Mechanical refrigerators. 367,327; May 9; Serial No. 415,051; published Feb. 28, 1939. Class 31.
Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 367,093; May 9; Serial No. 410,601; published Feb. 28, 1939. Class 39.
Miller, J. H., Jenky, W. Va. Medicine. 367,229; May 9; Serial No. 413,795; published Feb. 21, 1939. Class 6.
Misenta Pine Products, Inc., Buffalo, N. Y. Soap and other detergent preparations. 367,113; May 9; Serial No. 411,749; published Feb. 28, 1939. Class 4.
Modern Age Books, Inc., New York, N. Y. Books. 367,135–6; May 9; Serial Nos. 412,385–6; published Feb. 21, 1939. Class 38.
Moench, John C., doing business as J. C. Moench Shoe Co., Boston, Mass. Shoes. 367,196; May 9; Serial No. 413,415; published Feb. 14, 1939. Class 39.
Monsanto Chemical Company, St. Louis, Mo. Chemical adjuvants for the treatment of silage. 367,307; May 9; Serial No. 414,750; published Feb. 21, 1939. Class 6.
Morley, I. & R., Limited, London, England. Gloves, shirts and undershirts, etc. 367,059; May 9; Serial No. 407,273; published Feb. 21, 1939. Class 39.
Moulton Ladder Manufacturing Co., Somerville, Mass. Ladders. 367,298–9; May 9; Serial Nos. 414,638–9; published Feb. 28, 1939. Class 50.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. 367,197; May 9; Serial No. 413,417; published Feb. 28, 1939. Class 38.
National Destillerins Corporation, Indianapolis, Ind. Rum. 367,267; May 9; Serial No. 414,360; published Feb. 28, 1939. Class 49.
Nashua Slipper Company, Lowell, Mass. Moccasins, slippers, and sandals. 367,137; May 9; Serial No. 412,418; published Jan. 17, 1939. Class 39.
National Fruit Product Company, Inc., Alexandria, Va., to National Fruit Product Company, Inc., Washington, D. C. Apple-cider vinegar. 126,728; renewed Sept. 30, 1939.
Newman, Morris, New York, N. Y. Brassières. 367,015; May 9; Serial No. 397,412; published Feb. 21, 1939. Class 39.
New York Hamburger Gummi-Waaren Compagnie, Hamburg, Germany. Combs. 367,031; May 9; Serial No. 401,399; published Jan. 17, 1939. Class 40.
Nitrate Agencies Company, New York, N. Y. Fertilizers. 367,130; May 9; Serial No. 412,273; published Feb. 21, 1939. Class 10.
Noack-Hoyt Company, The, Danbury, Conn. Ladies' hats. 367,084; May 9; Serial No. 409,651; published Jan. 17, 1939. Class 39.
Northmont Hosiery Corporation, Reading, Pa. Hosiery. 367,159; May 9; Serial No. 412,825; published Feb. 21, 1939. Class 39.
Norwich Pharmacal Company, The, Norwich, N. Y. Cod liver oil fortified with natural vitamins. 367,213; May 9; Serial No. 413,591; published Feb. 21, 1939. Class 6.
Norwood Company, The, Chicago, Ill. Music stands. 367,335; May 9. Class 36.
Nose-Ions Company, New York, N. Y. Nasal unguent or ointment. 367,168; May 9; Serial No. 413,024; published Feb. 28, 1939. Class 6.
Novelty Pen and Pencil Company. (See Shasholan, Mark.)
Nymoc Products Company. (See Brohman, John J.)
O. K. Fruit Exchange. (See Oxnard Citrus Assn.)
Ohio Leather Company, The, Girard, Ohio. Tanned and finished calf and side leather. 126,603; renewed Sept. 23, 1939.
Ohrbach's Inc., New York, N. Y. Women's and children's wearing apparel. 367,095; May 9; Serial No. 410,656; published Feb. 28, 1939. Class 39.
Ontario-Cucamonga Fruit Exchange. (See Oxnard Citrus Assn.)
Oregon Waters Fly Co., Portland, Oreg. Artificial insects, novelty jewelry, and hair ornaments. 367,205; May 9; Serial No. 413,484; published Feb. 14, 1939. Class 40.
Ostbye & Anderson, Minneapolis, Minn. Wrist watches and pocket watches and parts thereof. 367,347; May 9. Class 27.
Oxnard Citrus Assn., Hueneme and Oxnard, to Ontario-Cucamonga Fruit Exchange, doing business as O. K. Fruit Exchange, Upland, Calif., successor. Fresh citrus fruits. 126,738; renewed Sept. 30, 1939.
Oxweld Acetylene Company. (See Burdett Oxygen Company, The, assignor.)
Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,145; May 9; Serial No. 412,720; published Jan. 17, 1939. Class 39.
Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,146; May 9; Serial No. 412,721; published Feb. 21, 1939. Class 39.
Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,147; May 9; Serial No. 412,722; published Feb. 7, 1939. Class 39.
Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,148–9; May 9; Serial Nos. 412,726–7; published Jan. 17, 1939. Class 39.
Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,150; May 9; Serial No. 412,728; published Feb 14, 1939. Class 39.
Paramount Laboratories, Incorporated, Binghamton, N. Y. Extracts and flavorings. 367,045; May 9; Serial No. 405,626; published Feb. 28, 1939. Class 46.
Pass & Seymour, Inc., Syracuse, N. Y. Plates for electric wiring devices. 367,303; May 9; Serial No. 414,707; published Feb. 28, 1939. Class 21.
Penney, J. C., Company, Wilmington, Del., and New York N. Y. Shoes. 367,262; May 9; Serial No. 414,270; published Feb. 28, 1939. Class 39.
Perlin, Sylvia O., doing business as Insignia Tie Company, Cleveland Heights, Ohio. Neckties. 367,024; May 9; Serial No. 400,662; published Feb. 7, 1939. Class 39.
Perma-Dry Process Corporation, New York, N. Y. Water repellent compound. 367,281; May 9; Serial No. 414,467; published Feb. 28, 1939. Class 6.

Perry, Leo, doing business as Whitewater Garment Company, Whitewater, Wis. Waterproof and silk fabrics. 367,103; May 9; Serial No. 411,340; published Nov. 22, 1938. Class 50.

Pervel Distributors, Inc., Chicago, Ill. Preformed treated paper draperies and window hangings. 367,206; May 9. Serial No. 413,485; published Feb. 28, 1939. Class 50.

Pioneer Rubber Company, The, Willard, Ohio. Household gloves. 367,133; May 9; Serial No. 412,353; published Jan. 17, 1939. Class 39.

Pollak, Henry, Inc., New York, N. Y. Wool felt for hat bodies. 367,162; May 9; Serial No. 412,869; published Jan. 24, 1939. Class 39.

Pollak, Henry, Inc., New York, N. Y. Millinery braids. 367,254; May 9; Serial No. 414,203; published Feb. 28, 1939. Class 40.

Pollak, Henry, Inc., New York, N. Y. Hat bodies. 367,255–6; May 9; Serial Nos. 414,205–6; published Feb. 28, 1939. Class 39.

Posner, Dr. A., Shoes, Inc., New York, N. Y. Shoes. 367,112; May 9; Serial No. 411,708; published Feb. 21, 1939. Class 39.

Powdrell & Alexander, Inc., Danielson, Conn. Curtain materials in the piece. 367,353; May 9. Class 42.

Premier Knitting Mills, Inc., New York, N. Y. Wearing apparel. 367,036; May 9; Serial No. 402,020; published Apr. 19, 1938. Class 39.

Prescription Specialties Company, San Antonio, Tex. Emulsion preparation for use as a general tonic. 367,062; May 9; Serial No. 407,468; published Feb. 28, 1939. Class 6.

Pressman, J., & Co., Inc., New York, N. Y. Checker game played with marbles. 367,266; May 9; Serial No. 414,328; published Feb. 28, 1939. Class 22.

Purity Products Inc., Newark, N. J. Food product. 367,202; May 9; Serial No. 413,457; published Feb. 28, 1939. Class 46.

Purpoil Laboratories, Inc., Baltimore, Md. Ear oil preparation. 367,268; May 9; Serial No. 414,364; published Feb. 21, 1939. Class 6.

Purpoil Laboratories, Inc., Baltimore, Md. Preparation for use in treatment of athlete's foot and kindred diseases. 367,269; May 9; Serial No. 414,363; published Feb. 21, 1939. Class 6.

Pycope Incorporated, Jersey City, N. J. Tooth brush. 367,293; May 9; Serial No. 414,576; published Feb. 28, 1939. Class 29.

Quality Products Co., Inc., New York, N. Y. Scalp and hair tonics, lubricants, ointments, etc. 367,230; May 9; Serial No. 413,798; published Feb. 28, 1939. Class 6.

Quinlan, Kathleen Mary, Inc., New York, N. Y. Face powder. 367,070; May 9; Serial No. 408,437; published Feb. 21, 1939. Class 6.

Ray, Chas. E., New York, N. Y. Series or succession of incomplete comic drawings. 367,232; May 9; Serial No. 413,876; published Feb. 21, 1939. Class 38.

Re-Plate-O Products, Aurora, Ill. Polishing compound. 367,355; May 9. Class 4.

Research Products Corporation, Madison, Wis. Granular mineral material for chemically softening water. 367,304; May 9; Serial No. 414,710; published Feb. 21, 1939. Class 6.

Revlon Nail Enamel Corporation, The, New York, N. Y. Emulsified oil treatment for the nails. 367,088; May 9; Serial No. 410,406; published Nov. 15, 1938. Class 6.

Reynolds, Romelle G., Ocala, Fla. Beverages, and syrup for use in making the same. 367,282; May 9; Serial No. 414,469; published Feb. 28, 1939. Class 45.

Rimmel, Inc. (See Kresge, S. S., Company, assignor.)

Rochester Button Company, Rochester, N. Y. Buttons. 367,106; May 9; Serial No. 411,546; published Feb. 7, 1939. Class 40.

Rogers, Charles P., & Co. Inc., New York, N. Y. Mattresses, pillows, and box springs. 367,328; May 9; Serial No. 415,090; published Feb. 28, 1939. Class 32.

Rohland, Curt J., Providence, R. I. Preservative and waterproofing preparation. 367,349; May 9. Class 4.

Roosevelt Shoe Shop, Inc., Jackson Heights, N. Y. Shoes. 367,117; May 9; Serial No. 411,907; published Jan. 3, 1939. Class 39.

Rose-Derry Company, Newton, Mass. Mattresses. 367,323; May 9; Serial No. 415,008; published Feb. 28, 1939. Class 32.

Roth, Dorothy, New York, N. Y. Lingerie. 367,085; May 9; Serial No. 409,747; published Feb. 7, 1939. Class 39.

Rothstein, Robt. J., doing business as Rothstein Dental Laboratories, Washington, D. C. Artificial teeth, crowns, and bridges, and material used in the making thereof. 367,332; May 9. Class 44.

Rubinstein, Helena, Inc., New York, N. Y. Face creams and foundation creams, and face powder for cosmetics. 367,312; May 9; Serial No. 414,833; published Feb. 28, 1939. Class 6.

Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. 367,270; May 9; Serial No. 414,369; published Feb. 28, 1939. Class 46.

Russo, Marion, Stamford, Conn. Medicinal lotion. 367,265; May 9; Serial No. 414,311; published Feb. 21, 1939. Class 6.

Saco-Moc Shoe Corporation, Portland, Maine. Shoes. 367,151; May 9; Serial No. 412,732; published Feb. 21, 1939. Class 39.

Sagner, A., & Sons, Inc., Baltimore, Md. Men's suits and overcoats, and women's suits and coats. 367,160; May 9; Serial No. 412,830; published Feb. 14, 1939. Class 39.

Sakin & Lindner, Inc., New York, N. Y. Dresses. 367,164; May 9; Serial No. 412,889; published Feb. 14, 1939. Class 39.

Sam-Way Hat Co., Inc., New York, N. Y. Ladies', misses', and girls' hats. 367,154; May 9; Serial No. 412,780; published Jan. 17, 1939. Class 39.

Savemore Markets, Inc., Jamaica, N. Y. Coffee. 367,263; May 9; Serial No. 414,273; published Feb. 28, 1939. Class 46.

Sawyer, H. M., & Son. Co., The, East Cambridge, Mass. Waterproof clothes. 367,163; May 9; Serial No. 412,877; published Jan. 17, 1939. Class 39.

Schwartz-Gilbert Co., Inc., New York, N. Y. Toilet articles, novelties, and the like. 367,108; May 9; Serial No. 411,660; published Jan. 10, 1939. Class 40.

Sea-Ro Packing Company Incorporated, New York, N. Y. Machinery packing. 367,351; May 9. Class 35.

Sears, Roebuck and Co., Chicago, Ill. Men's hosiery. 367,209; May 9; Serial No. 413,563; published Feb. 21, 1939. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Nightgowns and pajamas. 367,210; May 9; Serial No. 413,564; published Feb. 14, 1939. Class 39.

See's Candy Shops, Inc., Los Angeles, Calif. Candy. 367,056; May 9; Serial No. 406,986; published Feb. 28, 1939. Class 46.

Shasholan, Mark, doing business as Novelty Pen and Pencil Company, Cliffside Park, N. J. Pens and pencils. 367,291; May 9; Serial No. 414,537; published Feb. 28, 1939. Class 37.

Shiver Cake Corporation of America, Alameda, Calif. Frozen confections. 367,258; May 9; Serial No. 414,242; published Feb. 28, 1939. Class 46.

Shulton, Inc., New York, N. Y. Astringents, astringent cerates, cold creams, etc. 367,143; May 9; Serial No. 412,669; published Feb. 28, 1939. Class 6.

Siboney Distilling Corporation, Philadelphia, Pa. Rum, whiskey, gin, etc. 367,271; May 9; Serial No. 414,373; published Feb. 28, 1939. Class 49.

Siegel, Jacob, Company, Philadelphia, Pa. Men's topcoats and overcoats. 367,152; May 9; Serial No. 412,734; published Feb. 14, 1939. Class 39.

Siegel, Milton H., Baltimore, Md. Umbrellas and parasols. 367,238; May 9; Serial No. 414,009; published Feb. 21, 1939. Class 41.

Sisco-Hamilton Co., Chicago, Ill. Candy. 367,193; May 9; Serial No. 413,365; published Feb. 28, 1939. Class 46.

Slocum, T. A., Co., New York, N. Y. Cough syrup. 367,257; May 9; Serial No. 414,241; published Feb. 21, 1939. Class 6.

Smith, G. Edwin, Shoe Company, The, Columbus, Ohio. Women's and misses' shoes. 367,120; May 9; Serial No. 411,973; published Feb. 28, 1939. Class 39.

Smith, Landon P., Inc., Irvington, N. J. Wood and wall scrapers, putty knives, and glass cutters. 367,198; May 9; Serial No. 413,421; published Feb. 28, 1939. Class 23.

Socony-Vacuum Oil Company, Incorporated. (See Vacuum Oil Company, assignor.)

Solo Products Corporation, New York, N. Y. Hair nets. 367,131; May 9; Serial No. 412,318; published Jan. 3, 1939. Class 39.

Sommerfield, Edward, Cincinnati, Ohio. Flavorings. 367,004; May 9; Serial No. 369,379; published Feb. 28, 1939. Class 46.

Southern Sales Co. (See Harlingen Canning Co.)

Spacarb, Inc., Jersey City, N. J. Beverage dispensing machines. 367,245; May 9; Serial No. 414,046; published Feb. 28, 1939. Class 23.

Standard Milling Company. (See Hecker-Jones-Jewell Milling Company, assignor.)

Stein, A., & Company, Chicago, Ill. Suspenders. 367,021; May 9; Serial No. 400,326; published Jan. 17, 1939. Class 39.

Sterll Manufacturing Company, Omaha, Nebr. Chapel tent drapes. 367,055; May 9; Serial No. 406,949; published Feb. 28, 1939. Class 50.

Stoeger Arms Corporation, New York, N. Y. Shotguns, rifles, pistols, etc. 367,248; May 9; Serial No. 414,119; published Feb. 28, 1939. Class 9.

Studebaker Corporation, The, South Bend, Ind. Vehicle heaters. 367,142; May 9. Serial No. 412,563; published Jan. 24, 1939. Class 19.

Subtropical Sales Company. (See Johnston, Everett.)

Superior Felt & Bedding Co., Chicago, Ill. Mattresses. 367,317; May 9; Serial No. 414,927; published Feb. 28, 1939. Class 32.

Supreme Olive Oil Corporation, San Francisco, Calif. Olive oil. 367,283; May 9; Serial No. 414,474; published Feb. 28, 1939. Class 46.

Sussberg & Feinberg, Inc., New York, N. Y. Lingerie. 367,231; May 9; Serial No. 413,806; published Feb. 28, 1939. Class 39.

Table Rock Laboratories, Inc., Greenville, S. C. Reconstructive tonic. 367,287; May 9; Serial No. 414,514; published Feb. 21, 1939. Class 6.

Telescope Folding Furniture Company, The, Granville, N. Y. Folding chairs. 367,324; May 9; Serial No. 415,016; published Feb. 28, 1939. Class 32.

Thebest Mills Co., New York, N. Y. Caps, hats, socks, etc. 367,249; May 9; Serial No. 414,120; published Feb. 28, 1939. Class 39.

Therminsul Corporation, The, Kalamazoo, Mich. Sheets of mineral wool thermal insulating material. 367,264; May 9; Serial No. 414,282; published Feb. 28, 1939. Class 12.

Thomas, Hattie B., Baton Rouge, La. Hair tonic. 362,272; May 9; Serial No. 414,378; published Feb. 21, 1939. Class 6.

Thomas Publishing Company, New York, N. Y. Periodical. 367,251; May 9; Serial No. 414,121; published Feb. 28, 1939. Class 38.

Thompson's Ltd., New York, N. Y. Pocket medicine kits. 367,305; May 9; Serial No. 414,713; published Feb. 28, 1939. Class 44.

Time, Incorporated, New York, N. Y. Magazine. 367,214; May 9; Serial No. 413,605; published Feb. 21, 1939. Class 38.

Triangle Mechanical Laboratories Corp., Brooklyn, N. Y. Razor blades. 367,022; May 9; Serial No. 400,574; published Feb. 8, 1938. Class 23.

Trimount Clothing Co. Inc., Boston, Mass. Overcoats, topcoats, suits, etc. 367,181; May 9; Serial No. 413,254; published Feb. 7, 1939. Class 39.

Tru Test Marketing & Merchandising Corp., Chicago, Ill. Wrenches, butcher knives, hack saws, etc. 367,252; May 9; Serial No. 414,130; published Feb. 28, 1939. Class 23.

Tyson Corporation, The, Woodbridge and Newark, N. J. Vulcanized oil used in rubber compounding and in wire insulation. 367,211; May 9; Serial No. 413,571; published Feb. 28, 1939. Class 6.

Udell, Max, & Sons & Co., New York, N. Y. Suits, topcoats, and overcoats. 367,177; May 9; Serial No. 413,203; published Feb. 7, 1939. Class 39.

Union Products Corporation, San Francisco, Calif. Gut strings. 367,096; May 9; Serial No. 410,805; published Feb. 28, 1939. Class 22.

United Cigar-Whelan Stores Corporation, New York, N. Y. Whiskey. 367,352; May 9. Class 49.

United Packing Corporation, Oakland, Calif. Canned fruits. 367,007; May 9; Serial No. 388,735; published Apr. 6, 1937. Class 46.

U. S. Industrial Alcohol Co., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y. Anti-freeze. 367,215; May 9; Serial No. 413,609; published Feb. 28, 1939. Class 6.

United States Rubber Products, Inc., assignor to United States Rubber Company, New York, N. Y. Electrical wire. 367,338; May 9. Class 21.

U. S. Universal Joints Co., Detroit, Mich. Resilient bushings. 367,050; May 9; Serial No. 406,035; published Feb. 28, 1939. Class 23.

Unity-Grossman Inc., New York, N. Y. Ladies' shoes. 367,233; May 9; Serial No. 413,885; published Feb. 21, 1939. Class 39.

Usher, Thomas C., Sulhamstead, England. Knitting pins and needles. 367,126; May 9; Serial No. 412,204; published Feb. 7, 1939. Class 40.

Vacuum Oil Company, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Petroleum lubricating oil. 16,529; re-renewed Apr. 23, 1939.

Valley View Ranch, Ontario, to Alta Loma Heights Citrus Association, Alta Loma, Calif., successor. Fresh citrus fruits. 126,801; renewed Sept. 30, 1939.

Van Cleef Bros., Chicago, Ill. Adhesive type tape. 367,060; May 9; Serial No. 407,340; published Feb. 28, 1939. Class 37.

Vanity Fair Silk Mills, Reading, Pa. Underwear. 367,182–3; May 9; Serial Nos. 413,255–6; published Feb. 7, 1939. Class 39.

Vaporate Company, Inc., New York, N. Y. Chemicals for treating films. 367,109; May 9; Serial No. 411,664; published Dec. 27, 1938. Class 6.

Vincent, Francis M., doing business as Hampton Drug Co., Hampton, S. C. Medicinal preparation. 367,273; May 9; Serial No. 414,381; published Feb. 21, 1939. Class 6.

Vineberg, Louis, doing business as Industrial Garment Co., Los Angeles, Calif. Overalls, jumpers, uniforms, etc. 367,010; May 9; Serial No. 392,460; published Feb. 14, 1939. Class 39.

Vita-Ray Corporation, The, Lowell, Mass. Cosmetic and toilet preparations. 367,313; May 9; Serial No. 414,848; published Feb. 28, 1939. Class 6.

Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Meat loaves. 367,284–5; May 9; Serial Nos. 414,477–8; published Feb. 28, 1939. Class 46.

Vogue Mfg. Co., Newark, N. J. Brassières, corsets, girdles, etc. 367,138; May 9; Serial No. 412,531; published Jan. 17, 1939. Class 39.

Wahlert Products Corporation, Brooklyn, N. Y. Sand-blast helmets and asbestos safety clothing. 367,027; May 9; Serial No. 400,860; published Feb. 21, 1939. Class 39.

Walter, D. N. & E., & Co., San Francisco, Calif. Venetian blinds. 367,097; May 9; Serial No. 410,810; published Feb. 28, 1939. Class 32.

Wander, Dr. A., S. A., Bern, Switzerland. Vegetable food product. 367,101; May 9; Serial No. 411,257; published Feb. 28, 1939. Class 46.

Weidenmiller, Edward A., doing business as Weidenmiller Company, Chicago, Ill. Forming dies. 367,125; May 9; Serial No. 412,785; published Feb. 28, 1939. Class 23.

Wheelan, Robert B., doing business as Wheelan Studios, New York, N. Y. Photographs. 367,345; May 9. Class 38.

White, George S., Los Angeles, Calif. Cataplasm, tablets and compounds for rheumatism, headache; etc., oils, etc. 367,033; May 9; Serial No. 401,515; published Feb. 28, 1939. Class 6.

White Mountain Freezer Company, The, to The White Mountain Freezer Company, Inc., Nashua, N. H., successor. Ice cream freezers. 16,487; re-renewed Apr. 9, 1939.

Whitewater Garment Company. (See Perry, Leo.)

Wiley, Rhoda J., New York, N. Y. Cosmetics and hair dressing products. 367,049; May 9; Serial No. 405,797; published Feb. 21, 1939. Class 6.

Williams Gold Refining Company, Inc., The, Buffalo, N. Y. Casting metals used in dentistry. 367,322; May 9; Serial No. 414,976; published Feb. 28, 1939. Class 44.

Wilmington Chemical Corporation, Wilmington, Del. Viscous liquid or semi-liquid chemical raw material. 367,169; May 9; Serial No. 413,057; published Feb. 28, 1939. Class 1.

Wofford Syrup Co., Inc., Houston, Tex. Table syrup. 367,311; May 9; Serial No. 414,808; published Feb. 28, 1939. Class 46.

Williams, Daniel G., assignor to Rudolph J. Freed, Los Angeles, Calif. Bread, cakes, cookies, etc. 367,334; May 9. Class 46.

Ziv, Frederic W., Inc., Cincinnati, Ohio. Advertising material. 367,218; May 9; Serial No. 413,661; published Feb. 21, 1939. Class 38.

LIST OF REGISTRANTS OF LABELS

American Pop Corn Company, Sioux City, Iowa. Carnival. For Pop Corn. 52,945; May 9.

American Pop Corn Company, Sioux City, Iowa. Jolly Time. For Pop Corn. 52,946; May 9.

American Tissue Mills, Holyoke, Mass. Waxed Lunch Wraps. For Waxed Paper. 52,947; May 9.

Awful Fresh MacFarlane, Oakland, San Francisco, and Berkeley, Calif. Awful Fresh MacFarlane, the Scotch Candymaker. For Chocolate Creams and Chews. 52,948; May 9.

Basch, George, Co., The, New York, N. Y. Nevr-Dull. Magic Wadding Polish. For a Wadding Polish for All Metals. 52,949; May 9.

Chamberlin, Marguerite, doing business as M. L. Chamberlin, St. Louis, Mo. The Smile Powder Puff. For Powder Puffs. 52,950; May 9.

Graltmore Company, Inc., New York, N. Y. Directions. For Facial Oil. 52,951; May 9.

Griffith Laboratories, Inc., The, doing business as The Griffith Laboratories, Chicago, Ill. Griffith's Sausage Seasoning. For Sausage Seasoning. 52,952; May 9.

Hunter Baltimore Rye Distillery, Inc., Baltimore, Md. Hunter Distilled London Dry Gin. For Gin. 52,953; May 9.

Levitt, Benj., & Bros., New York, N. Y. Levet. For Stockings. 52,954; May 9.

Loughney, A. M., Seattle, Wash. Dr. Loughney's "Anti-Spasthma-Oyl". For an Oil for Relief of the Symptoms of Asthma, Hay Fever, Bronchitis, Rhinitis, Laryngitis, Pharyngitis, Head Colds, Chest Colds and Pneumonia. 52,955; May 9.

Lucas, John B., Tampa, Fla. My-Am-Eye. For Cigars. 52,956; May 9.

Lupo Cigar Company, New York, N. Y. Sigari Lupo. For Cigars. 52,957; May 9.

Markus, Charles I., Los Angeles, Calif. Markus Cleanseen. For Cold Cream. 52,958; May 9.

Meyer, Frank C., Co. Inc., New York, N. Y. Boyd's. For Shoes. 52,959; May 9.

Meyer, Frank C., Co. Inc., New York, N. Y. Waltzette. For Pumps. 52,960; May 9.

Near East Tobacco Company, Inc., New York, N. Y. Halutz. For Cigarettes. 52,961; May 9.

Orogold Co., The, Dallas, Tex. Orogold. For a Preparation Containing Blended Fresh Orange, Sugar, Certified Color, 1/10 of 1% Sodium Benzoate, Fruit Acid and Flavor for Making a Beverage. 52,962; May 9.

Partee, Charles W., doing business as Select Products Company, Memphis, Tenn. Partee's Anti-Piles. For a Liquid Astringent Used to Allay Protruding, Bleeding and Itching Hemorrhoids (Piles). 52,963; May 9.

Pennwell Oil & Belting Co., Inc., New York, N. Y. Wonder, the Leather with the Iron Grip. For Round Leather Belting. 52,964; May 9.

Select Products Company. (See Partee, Charles W.)

U. S. Alaska Herring Co. Inc., Chicago, Ill. Carmel Brand Kosher Natural American Cheese. For Cheese. 52,965; May 9.
Waxide Paper Company, Kansas City, Mo. Fresh Wheat Bread. For Bread. 52,966; May 9.
Wiesehan, John, doing business as John Wiesehan & Co., McAllen, Tex. Full O' Sun. For Texas Vegetables. 52,967; May 9.

LIST OF REGISTRANTS OF PRINTS

Fritsch, Lewis A., Cincinnati, Ohio. Wat-A-Pad. For Trusses. 17,378; May 9.
Johnson, James G., Nashville, Tenn. Souvenir—Great Smoky Mountains Nat'l Park—Genuine Indian Arrowhead. For Genuine Indian Arrowheads. 17,379; May 9.
Marin Dairymen's Milk Co., Ltd., San Francisco, Calif. Marin-Dell Creamlined. For Milk. 17,380; May 9.
North Bro's. M'f'g. Co., Philadelphia, Pa. "Yankee" Handyman Screw Driver with these Accessories Bores Holes Countersinks for Head of Screw Drives Small Screws. For Screw Drivers. 17,381; May 9.
Tasty Baking Company, Philadelphia, Pa. Tasty-Pie Skyway Lunch. For Pie. 17,382; May 9.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chemical raw material, Viscous liquid or semi-liquid. Wilmington Chemical Corporation. 367,169; May 9; Serial No. 413,057; published Feb. 28, 1939.
Grit, Poultry. E. J. Hughes. 367,082; May 9; Serial No. 409,525; published Feb. 28, 1939.
Leather. Amalgamated Leather Companies. 367,277; May 9; Serial No. 414,426; published Feb. 28, 1939.
Leather, Tanned and finished calf and side. Ohio Leather Company. 126,603; renewed Sept. 23, 1939.
Resinous products, Synthetic. Continental-Diamond Fibre Company. 367,279; May 9; Serial No. 414,436; published Feb. 28, 1939.

CLASS 2

Bags, Textile. Fulton Bag & Cotton Mfils. 367,259; May 9; Serial No. 414,262; published Feb. 28, 1939.

CLASS 3

Billfolds and key cases, Ladies'. P. A. Garner. 367,247; May 9; Serial No. 414,102; published Feb. 28, 1939.

CLASS 4

Cleaner for removing blemishes, white rings, etc., from wood surfaces. S. C. Johnson & Son, Inc. 367,297; May 9; Serial No. 414,633; published Feb. 28, 1939.
Cleaning and spot removing preparations, Fabric. J. J. Brohman. 367,166; May 9; Serial No. 413,021; published Feb. 28, 1939.
Polishing compound. Re-Plate-O Products. 367,355; May 9.
Preparation for cleaning, washing, and scouring unspun wool. General Dyestuff Corporation. 367,107; May 9; Serial No. 411,601; published Feb. 28, 1939.
Preservative and waterproofing preparation. C. J. Rohland. 367,349; May 9.
Soap and other detergent prepartions. Misenta Pine Products, Inc. 367,113; May 9; Serial No. 411,749; published Feb. 28, 1939.

CLASS 6

Anti-freeze. U. S. Industrial Alcohol Co. 367,215; May 9; Serial No. 413,609; published Feb. 28, 1939.
Astringents, astringent cerates, bleach creams, etc. Maison Joubert, Inc. 367,018; May 9; Serial No. 399,240; published Jan. 11, 1938.
Astringents, astringent cerates, cold creams, etc. Shulton, Inc. 367,143; May 9; Serial No. 412,669; published Feb. 28, 1939.
Cataplasm, tablets, and compounds for rheumatism, headache, etc: oils, etc. G. S. White. 367,033; May 9; Serial No. 401,515; published Feb. 28, 1939.
Chemical adjuvants for the treatment of silage. Monsanto Chemical Company. 367,307; May 9; Serial No. 414,750; published Feb. 21, 1939.
Chemicals for treating films. Vaporate Company, Inc. 367,109; May 9; Serial No. 411,664; published Dec. 27, 1938.
Cod liver oil fortified with natural vitamins. Norwich Pharmacal Company. 367,213; May 9; Serial No. 413,591; published Feb. 21, 1939.
Cough syrup. T. A. Slocum Co. 367,257; May 9; Serial No. 414,241; published Feb. 21, 1939.
Cosmetic and toilet preparations. Vita-Ray Corporation. 367,313; May 9; Serial No. 414,848; published Feb. 28, 1939.
Cosmetics and hair dressing products. R. J. Wiley. 367,049; May 9; Serial No. 405,797; published Feb. 21, 1939.
Cream cosmetic. Hyman & Hyman, a Corporation. 367,320–1; May 9; Serial Nos. 414,951–2; published Feb. 28, 1939.
Cream, Face. Jadwiga Remedies, Inc. 367,016; May 9; Serial No. 398,316; published Aug. 16, 1938.
Cream, night cream, cold cream, etc., Hand. Curtsy Incorporated. 367,047; May 9; Serial No. 405,768; published June 14, 1938.
Creams. Bel-Tex Co. 367,314; May 9; Serial No. 414,856; published Feb. 28, 1939.
Creams. S. S. Kresge Company. 125,230; renewed Apr. 22, 1939.
Creams and face powder for cosmetics, Face and foundation. Helena Rubenstein, Inc. 367,312; May 9; Serial No. 414,833; published Feb. 28, 1939.
Creams, Face. M. de Botelho. 367,246; May 9; Serial No. 414,055; published Feb. 21, 1939.
Creams; lotions; ointments; etc. J. J. Gauvreau. 367,090; May 9; Serial No. 410,465; published Feb. 28, 1939.
Dentifrice. S. R. Feldman. 367,105; May 9; Serial No. 411,491; published Feb. 28, 1939.
Dentifrices. A. Barreau. 367,089; May 9; Serial No. 410,424; published Feb. 7, 1939.
Ear oil preparation. Purpoil Laboratories, Inc. 367,268; May 9; Serial No. 414,364; published Feb. 21, 1939.
Eye wash. J. H. Hammond, Jr. 367,039; May 9; Serial No. 403,765; published Feb. 21, 1939.
Emulsion preparation for use as a general tonic. Prescription Specialties Company. 367,062; May 9; Serial No. 407,468; published Feb. 28, 1939.
Hair tonic. H. B. Thomas. 367,272; May 9; Serial No. 414,378; published Feb. 21, 1939.
Insecticides. McConnon & Company. 367,260–1; May 9; Serial Nos. 414,267–8; published Feb. 28, 1939.
Lotion, Medicinal. M. Russo. 367,265; May 9; Serial No. 414,311; published Feb. 21, 1939.
Insecticides, ant sprays, ant powders, etc. Great Northern Chemical Co. 367,208; May 9; Serial No. 413,551; published Feb. 28, 1939.
Magnesium preparation for medicinal purposes. Wm. S. Merrell Company. 367,280; May 9; Serial No. 414,459; published Feb. 21, 1939.
Medicinal preparation. A. H. Binash. 367,028; May 9; Serial No. 401,047; published Oct. 25, 1938.
Medicinal preparation. Eli Lilly and Company. 367,275; May 9; Serial No. 414,406; published Feb. 21, 1939.
Medicinal preparation. P. M. Vincent. 367,273; May 9; Serial No. 414,381; published Feb. 21, 1939.
Medicine. J. H. Miller. 367,229; May 9; Serial No. 413,795; published Feb. 21, 1939.
Medicines. J. H. Coakley. 367,185; May 9; Serial No. 413,297; published Feb. 21, 1939.
Mineral material for chemically softening water, Granular. Research Products Corporation. 367,304; May 9; Serial No. 414,710; published Feb. 21, 1939.
Oil treatment for the nails, Emulsified. Revlon Nail Enamel Corporation. 367,088; May 9; Serial No. 410,406; published Nov. 15, 1938.
Oil used in rubber compounding and in wire insulation, Vulcanized. Tyson Corporation. 367,211; May 9; Serial No. 413,571; published Feb. 28, 1939.
Perfumes. Elizabeth Arden, Inc. 367,052; May 9; Serial No. 406,703; published Feb. 28, 1939.
Perfumes and cosmetic creams. Lentheric, Incorporated. 367,309; May 9; Serial No. 414,786; published Feb. 21, 1939.
Perfumes and cosmetic creams. Lentheric, Incorporated. 367,310; May 9; Serial No. 414,785; published Feb. 21, 1939.
Perfume, toilet water, eau de cologne, etc. L. P. Guillon. 367,289–90; May 9; Serial Nos. 414,525–6; published Feb. 21, 1939.
Pharmaceutical preparation. L. M. Caballero. 367,019; May 9; Serial No. 399,881; published Feb. 15, 1938.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 367,294; May 9; Serial No. 414,595; published Feb. 21, 1939.
Powder, Face. Kathleen Mary Quinlan, Inc. 367,070; May 9; Serial No. 408,437; published Feb. 21, 1939.
Powders, face rouges, lipsticks, etc., Face. Bonne Bell, Inc. 367,225; May 9; Serial No. 413,772; published Feb. 28, 1939.
Preparation for use in treatment of athlete's foot and kindred diseases. Purpoil Laboratories, Inc. 367,269; May 9; Serial No. 414,363; published Feb. 21, 1939.

Rouge, compacts, face powder, etc. Coty, Inc. 367,124; May 9; Serial No. 412,082; published Feb. 14, 1939.
Scalp and hair tonics, lubricants, ointments, etc. Quality Products Co. 367,230; May 9; Serial No. 413,798; published Feb. 28, 1939.
Tonic and astringent, Iron. Kirby's Mineral Products. 367,302; May 9; Serial No. 414,662; published Feb. 21, 1939.
Tonic, Reconstructive. Table Rock Laboratories, Inc. 367,287; May 9; Serial No. 414,514; published Feb. 21, 1939.
Unguent or ointment, Nasal. Nonse-Ions Company. 367,168; May 9; Serial No. 413,024; published Feb. 28, 1939.
Water repellent compound. Perma-Dry Process Corporation. 367,281; May 9; Serial No. 414,467; published Feb. 28, 1939.
Waving preparation, Finger. Glemby Company. 367,301; May 9; Serial No. 414,657; published Feb. 28, 1939.

CLASS 7

Twines, cord, and tinsel cords. Lees Manufacturing Co. 367,241; May 9; Serial No. 414,034; published Feb. 21, 1939.

CLASS 9

Shotguns, rifles, pistols, etc. Stoeger Arms Corporation. 367,248; May 9; Serial No. 414,119; published Feb. 28, 1939.

CLASS 10

Fertilizer. Barrett Company. 367,134; May 9; Serial No. 412,367; published Feb. 21, 1939.
Fertilizer, Chemical. Consolidated Mining & Smelting Company of Canada, Limited. 367,071; May 9; Serial No. 408,596; published Feb. 28, 1939.
Fertilizers. Nitrate Agencies Company. 367,130; May 9; Serial No. 412,273; published Feb. 21, 1939.
Fertilizers, Chemical. Consolidated Mining & Smelting Company of Canada, Limited. 367,073; May 9; Serial No. 408,822; published Feb. 28, 1939.

CLASS 12

Cement, Masonry and Portland. Gulf Portland Cement Company. 367,034; May 9; Serial No. 401,530; published Feb. 28, 1939.
Coating material. Calbar Paint and Varnish Company. 367,336; May 9.
Floor blocks and tiles. Allspline Corporation. 367,276; May 9; Serial No. 414,425; published Feb. 28, 1939.
Insulating material, Mineral wool. Barrett Company. 367,300; May 9; Serial No. 414,650; published Feb. 28, 1939.
Plastic composition. Crossfield Products Corporation. 367,110; May 9; Serial No. 411,680; published Feb. 21, 1939.
Roofing sheets, Metallic. Carnegie-Illinois Steel Corporation. 367,091–2; May 9; Serial Nos. 410,499–500; published Feb. 21, 1939.
Sheets of mineral wool thermal insulating material. Therminsul Corporation. 367,264; May 9; Serial No. 414,282; published Feb. 28, 1939.
Weather strip. W. J. Dennis & Company. 367,191; May 9; Serial No. 413,336; published Feb. 14, 1939.

CLASS 14

Alloys. Fansteel Metallurgical Corporation. 367,243; May 9; Serial No. 414,061; published Feb. 28, 1939.
Linings of tin, lead, or the like, bonded to steel or other metals. F. R. Glenner. 367,244; May 9; Serial No. 414,069; published Feb. 28, 1939.

CLASS 15

Oil, Petroleum lubricating. Vacuum Oil Company. 16,529; re-renewed Apr. 23, 1939.

CLASS 16

Lacquers, paints, paint enamels, and varnishes. Commonwealth Engineering Corporation. 367,075; May 9; Serial No. 408,832; published Dec. 20, 1938.
Polish, Liquid. S. C. Johnson & Son, Inc. 367,325; May 9; Serial No. 415,022; published Feb. 28, 1939.
Polishes, Coating effecting. L. W. Carr. 367,006; May 9; Serial No. 386,203; published Mar. 9, 1937.

CLASS 17

Cigars and smoking and chewing tobacco. London House, Ltd. 367,348; May 9.

CLASS 19

Vehicle heaters. Studebaker Corporation. 367,142; May 9; Serial No. 412,563; published Jan. 24, 1939.

CLASS 21

Aquarium equipment. J. B. Maris. 367,014; May 9; Serial No. 396,150; published July 12, 1938.
Drills, Hand operated electrically driven. Chicago Flexible Shaft Company. 367,025; May 9; Serial No. 400,683; published Feb. 28, 1939.
Plates for electric wiring devices. Pass & Seymour, Inc. 367,303; May 9; Serial No. 414,707; published Feb. 28, 1939.
Switches, Electrical. Ansonia Clock Company. 367,199; May 9; Serial No. 413,431; published Feb. 28, 1939.
Wire, Electrical. United States Rubber Products, Inc. 367,338; May 9.

CLASS 22

Fish hooks. Driscoll-Bruck Co. 367,242; May 9; Serial No. 414,059; published Feb. 28, 1939.
Fish hooks and lures. E. E. Deppe. 367,012; May 9; Serial No. 394,981; published Jan. 24, 1939.
Game. B. Lewis. 367,132; May 9; Serial No. 412,348; published Feb. 28, 1939.
Game played with marbles, Checker. J. Pressman & Co. 367,266; May 9; Serial No. 414,328; published Feb. 28, 1939.
Games, Board. B. Gouldin. 367,308; May 9; Serial No. 414,780; published Feb. 28, 1939.
Gut strings. Union Products Corporation. 367,096; May 9; Serial No. 410,805; published Feb. 28, 1939.

CLASS 23

Axes, hammers, hatchets, etc. American Fork & Hoe Company. 367,104; May 9; Serial No. 411,362; published Feb. 28, 1939.
Beverage dispensing machines. Spacarb, Inc. 367,245; May 9; Serial No. 414,046; published Feb. 28, 1939.
Bushings, Resilient. U. S. Universal Joints Co. 367,050; May 9; Serial No. 406,035; published Feb. 28, 1939.
Clippers and electric shavers, Hair. Knapp Electric Shaver, Inc. 367,339–42; May 9.
Dies, Forming. E. A. Weidenmiller. 367,125; May 9; Serial No. 412,785; published Feb. 28, 1939.
Lubrication fittings. Keystone Lubricating Company. 367,078; May 9; Serial No. 409,098; published Feb. 28, 1939.
Openers, Can. C. G. Fawkes. 367,065; May 9; Serial No. 407,976; published Feb. 28, 1939.
Planes and hammers. Capewell Manufacturing Company. 367,020; May 9; Serial No. 400,049; published Feb. 28, 1939.
Punch presses. Johnson Machine & Press Corporation. 367,041; May 9; Serial No. 404,409; published Feb. 28, 1939.
Razor blades. Triangle Mechanical Laboratories Corp. 367,022; May 9; Serial No. 400,574; published Feb. 8, 1938.
Scrapers, putty knives, and glass cutters, Wood and wall. Landon P. Smith, Inc. 367,198; May 9; Serial No. 413,421; published Feb. 28, 1939.
Shavers, Dry. Knapp-Monarch Company. 367,350; May 9.
Sterilizers. Griswold Manufacturing Company. 367,057; May 9; Serial No. 407,064; published Feb. 28, 1939.
Tools and accessories. Metalmen, Inc. 367,099; May 9; Serial No. 410,963; published Feb. 28, 1939.
Wrenches, butcher knives, hack saws, etc. Tru Test Marketing & Merchandising Corp. 367,252; May 9; Serial No. 414,130; published Feb. 28, 1939.

CLASS 24

Laundry machine. Easy Washing Machine Corporation. 367,038; May 9; Serial No. 402,966; published July 26, 1938.

CLASS 25

Coin boxes. K & K Inc. 367,186; May 9; Serial No. 413,311; published Feb. 28, 1939.
Locks. American Hardware Corporation. 367,203; May 9; Serial No. 413,466; published Feb. 21, 1939.

CLASS 26

Binoculars and field glasses. Bausch & Lomb Optical Company. 367,253; May 9; Serial No. 414,137; published Feb. 28, 1939.

CLASS 27

Watches and pocket watches and parts thereof, Wrist. Ostbye & Anderson. 367,347; May 9.

CLASS 29

Tooth brush. Pycope Incorporated. 367,293; May 9; Serial No. 414,576; published Feb. 28, 1939.

CLASS 31

Freezers, Ice cream. White Mountain Freezer Company. 16,487; re-renewed Apr. 9, 1939.
Refrigeration machines, refrigeration showcases, etc. General Refrigeration Corporation. 367,319; May 9; Serial No. 414,948; published Feb. 28, 1939.
Refrigerators, Mechanical. Midwest Mfg. Company. 367,327; May 9; Serial No. 415,051; published Feb. 28, 1939.

CLASS 32

Blinds, Venetian. D. N. & E. Walter & Co. 367,097; May 9; Serial No. 410,810; published Feb. 28, 1939.
Chairs, Folding. Telescope Folding Furniture Company. 367,324; May 9; Serial No. 415,016; published Feb. 28, 1939.
Desk and table, Combination. H. Feldman. 367,318; May 9; Serial No. 414,947; published Feb. 28, 1939.
Mattresses. Rose-Derry Company. 367,323; May 9; Serial No. 415,008; published Feb. 28, 1939.
Mattresses. Superior Felt & Bedding Co. 367,317; May 9; Serial No. 414,927; published Feb. 28, 1939.

Mattresses, pillows, and box springs. Charles P. Rogers & Co. Inc. 367,328; May 9; Serial No. 415,090; published Feb. 28, 1939.
Mattresses, studio couches, box springs, etc. Eagle Mattress Company Inc. 367,239; May 9; Serial No. 414,025; published Feb. 28, 1939.
Welts or binding, Finishing. Backstay Machine and Leather Co. 124,949; renewed Apr. 1, 1939.

CLASS 33

Bottles, jars, decanters, etc., Glass. Glass Container Association of America. 367,343; May 9.

CLASS 34

Furnaces and air conditioning units, Hot air. Atlas Heating & Ventilating Co. Ltd. 367,333; May 9.
Ranges, Gas. Association of Gas Appliance and Equipment Manufacturers. 367,337; May 9.
Torches, Welding and cutting. Burdett Oxygen Company. 126,591; renewed Sept 23, 1939.

CLASS 35

Belting for machinery, Rubber. Drake Supply Co. 367,035; May 9; Serial No. 401,957; published Feb. 28, 1939.
Leathers, and washers and gaskets of leather, Pump and valve. Excelsior Leather Washer Manufacturing Co. 126,536; renewed Sept. 16, 1939.
Packing, Machinery. Greene, Tweed & Co. 17,054; renewed Sept. 24, 1939.
Packing, Machinery. Sea-Ro Packing Company Incorporated. 367,351; May 9.
Tires. Firestone Tire & Rubber Company. 367,329–30; May 9; Serial Nos. 415,160–1; published Feb. 28, 1939.

CLASS 36

Music stands. Norwood Company. 367,335; May 9.

CLASS 37

Paper, Waxed. Berst-Forster-Dixfield Company. 367,286; May 9; Serial No. 414,481; published Feb. 28, 1939.
Paper and envelopes, Writing. Belnap and Thompson, Inc. 367,046; May 9; Serial No. 405,681; published Feb. 28, 1939.
Papers, Catalog and booklet cover. Kimberly-Clark Corporation. 367,026; May 9; Serial No. 400,769; published Oct. 4, 1938.
Papers, Writing. L. L. Brown Paper Company. 367,240; May 9; Serial No. 414,022; published Feb. 28, 1939.
Pens and pencils. M. Shashoian. 367,291; May 9; Serial No. 414,537; published Feb. 28, 1939.
Tape, Adhesive type. Van Cleef Bros. 367,060; May 9; Serial No. 407,340; published Feb. 28, 1939.
Wall-papers. B. Buchbinder. 126,646; renewed Sept. 30, 1939.

CLASS 38

Advertising material. Frederic W. Ziv, Inc. 367,218; May 9; Serial No. 413,661; published Feb. 21, 1939.
Books. Modern Age Books, Inc. 367,135–6; May 9; Serial Nos. 412,385–6; published Feb. 21, 1939.
Cartoons. King Features Syndicate, Inc. 367,356; May 9.
Commentaries and economic graphs, etc. H. W. Chase. 367,066; May 9; Serial No. 408,050; published Feb. 28, 1939.
Drawings, Comic. NEA Service, Inc. 367,197; May 9; Serial No. 413,417; published Feb. 28, 1939.
Drawings, Series or succession of incomplete comic drawings. C. E. Ray. 367,232; May 9; Serial No. 413,876; published Feb. 21, 1939.
Magazine, Fashion Features, Inc. 367,029; May 9; Serial No. 401,053; published Feb. 21, 1939.
Magazine, Time, Incorporated. 367,214; May 9; Serial No. 413,605; published Feb. 21, 1939.
Newspaper column. C. F. Danver. 367,087; May 9; Serial No. 410,133; published Feb. 21, 1939.
Periodical. Thomas Publishing Company. 367,251; May 9; Serial No. 414,121; published Feb. 28, 1939.
Periodical, Monthly. Larus & Brother Co. 367,192; May 9; Serial No. 413,346; published Feb. 21, 1939.
Photographs. R. B. Wheelan. 367,345; May 9.
Publication. Eye • Catchers, Inc. 367,161; May 9; Serial No. 412,855; published Feb. 28, 1939.

CLASS 39

Apparel, Ladies' wearing. Maison Blanche Company. 367,140; May 9; Serial No. 412,537; published Jan. 17, 1939.
Apparel, Men's wearing. Maison Blanche Company. 367,139; May 9; Serial No. 412,536; published Feb. 7, 1939.
Apparel, Wearing. Premier Knitting Mills, Inc. 367,036; May 9; Serial No. 402,020; published Apr. 19, 1939.
Apparel, Women's and children's wearing. Ohrbach's Inc. 367,095; May 9; Serial No. 410,636; published Feb. 28, 1939.
Aprons. Latex. International Latex Corporation. 367,204; May 9; Serial No. 413,481; published Feb. 14, 1939.
Boots, shoes, and slippers. D. Palter. 367,145; May 9; Serial No. 412,720; published Jan. 17, 1939.
Boots, shoes, and slippers. D. Palter. 367,146; May 9; Serial No. 412,721; published Feb. 21, 1939.
Boots, shoes, and slippers. D. Palter. 367,147; May 9; Serial No. 412,722; published Feb. 7, 1939.
Boots, shoes, and slippers. D. Palter. 367,148–9; May 9; Serial Nos. 412,726–7; published Jan. 17, 1939.
Boots, shoes and slippers. D. Palter. 367,150; May 9; Serial No. 412,728; published Feb. 14, 1939.
Brassières. M. Newman. 367,015; May 9; Serial No. 397,412; published Feb. 21, 1939.
Brassières, corsets, girdles, etc. Idol Associated Mills Incorporated. 367,201; May 9; Serial No. 413,445; published Feb. 14, 1939.
Brassières, corsets, girdles, etc. Vogue Mfg. Co. 367,138; May 9; Serial No. 412,531; published Jan. 17, 1939.
Caps, hats, socks, etc. Thebest Mills Co. 367,249; May May 9; Serial No. 414,120; published Feb. 28, 1939.
Clothes, Waterproof. H. M. Sawyer & Son Co. 367,163; May 9; Serial No. 412,877; published Jan. 17, 1939.
Clothing. B. V. D. Corporation. 367,184; May 9; Serial No. 413,295; published Feb. 7, 1939.
Clothing. Magic Snap-On Dress Co. 367,037; May 9; Serial No. 402,380; published Feb. 21, 1939.
Clothing for women. William Hollins & Company. 125,446–7; renewed May 20, 1939.
Coats and suits, Ladies'. Anitra, Inc. 367,187; May 9; Serial No. 413,327; published Feb. 21, 1939.
Coats and suits. Women's and misses. Levenson Company. 367,237; May 9; Serial No. 413,995; published Feb. 21, 1939.
Coats, Boys'. Fried Ostermann Co. 367,331; May 9.
Coats, suits, and gloves. May Department Stores Company. 367,153; May 9; Serial No. 412,773; published Feb. 7, 1939.
Coats, suits, dresses, etc. Chicago Mail Order Company. 367,118; May 9; Serial No. 411,940; published Feb. 7, 1939.
Coats, suits, sweaters, etc. Mavest Inc. 367,083; May 9; Serial No. 409,617; published Jan. 17, 1939.
Coats, Women's, misses', and juniors'. J. L. Hudston Company. 367,236; May 9; Serial No. 413,991; published Feb. 14, 1939.
Corselets, brassières, and girdles. Even-Pul Foundations. 367,040; May 9; Serial No. 404,171; published Jan. 17, 1939.
Dresses. Sakin & Lindner, Inc. 367,164; May 9; Serial No. 412,889; published Feb. 14, 1939.
Dresses, Ladies'. Nat L. Green Co. 367,234; May 9; Serial No. 413,943; published Feb. 21, 1939.
Dresses, play suits, and bathing suits. S. Augstein & Co. 367,173; May 9; Serial No. 413,175; published Feb. 14, 1939.
Dresses, play suits, and bathing suits. S. Augstein & Co. 367,174; May 9; Serial No. 413,177; published Feb. 14, 1939.
Dresses, rompers, slips, etc. Babycraft Imports Co. 367,188; May 9; Serial No. 413,329; published Feb. 7, 1939.
Felt for hat bodies, Wool. Henry Pollak, Inc. 367,162; May 9; Serial No. 412,869; published Jan. 24, 1939.
Girdles and corsets. I. B. Kleinert Rubber Company. 367,165; May 9; Serial No. 412,910; published Jan. 24, 1939.
Girdles, panties, corsets, etc. H. W. Gossard Co. 367,119; May 9; Serial No. 411,953; published Jan. 3, 1939.
Gloves and mittens. Aris Gloves, Inc. 367,122; May 9; Serial No. 412,020; published Jan. 17, 1939.
Gloves, Household. Pioneer Rubber Company. 367,133; May 9; Serial No. 412,353; published Jan. 17, 1939.
Gloves, shirts and undershirts, etc. I. & R. Morley Limited. 367,059; May 9; Serial No. 407,273; published Feb. 21, 1939.
Hair nets. Solo Products Corporation. 367,131; May 9; Serial No. 412,318; published Jan. 3, 1939.
Hat bodies. Henry Pollak, Inc. 367,255–6; May 9; Serial Nos. 414,205–6; published Feb. 28, 1939.
Hats. Best & Co. Inc. 367,127; May 9; Serial No. 412,212; published Jan. 3, 1939.
Hats, berets, sweaters, etc. G. M. Greenclay. 367,080; May 9; Serial No. 409,125; published Jan. 17, 1939.
Hats for men. Hat Corporation of America. 367,212; May 9; Serial No. 413,581; published Feb. 14, 1939.
Hats, Ladies'. Noack-Hoyt Company. 367,084; May 9; Serial No. 409,651; published Jan. 17, 1939.
Hats, Ladies', misses', and girls'. Sam-Way Hat Co. 367,154; May 9; Serial No. 412,780; published Jan. 17, 1939.
Headwear. Funk Bros. Hat & Cap Company. 367,200; May 9; Serial No. 413,443; published Feb. 14, 1939.
Heels and soles. Goodyear Tire & Rubber Company. 367,048; May 9; Serial No. 405,773; published Feb. 21, 1939.
Heels, Rubber. Goodyear Tire & Rubber Company. 367,030; May 9; Serial No. 401,386; published Feb. 7, 1939.
Helmets and asbestos safety clothing, Sandblast. Wahlert Products Corporation. 367,027; May 9; Serial No. 400,860; published Feb. 21, 1939.
Hosiery. Gold Meadow Hosiery Co. 367,235; May 9; Serial No. 413,989; published Feb. 21, 1939.
Hosiery. Northmont Hosiery Corporation. 367,159; May 9; Serial No. 412,825; published Feb. 21, 1939.

Hosiery and gloves, Women's. L. Bamberger & Co. 367,102; May 9; Serial No. 411,265; published Jan. 3, 1939.
Hosiery, Men's. Sears, Roebuck and Co. 367,209; May 9; Serial No. 413,563; published Feb. 21, 1939.
Lingerie. D. Roth. 367,085; May 9; Serial No. 409,747; published Feb. 7, 1939.
Lingerie. Sussberg & Feinberg, Inc. 367,231; May 9; Serial No. 413,806; published Feb. 28, 1939.
Moccasins, slippers, and sandals. Nashua Slipper Company. 367,137; May 9; Serial No. 412,418; published Jan. 17, 1939.
Neckties. Botany Worsted Mills. 367,141; May 9; Serial No. 412,541; published Jan. 3, 1939.
Neckties. Botany Worsted Mills. 367,180; May 9; Serial No. 413,217; published Jan. 24, 1939.
Neckties. S. O. Perlin. 367,024; May 9; Serial No. 400,662; published Feb. 7, 1939.
Neckties and mufflers, Men's. McCurragh Organization Incorporated. 367,167; May 9; Serial No. 413,023; published Jan. 24, 1939.
Nightgowns and pajamas. Sears, Roebuck and Co. 367,210; May 9; Serial No. 413,564; published Feb. 14, 1939.
Night gowns, pajamas, negligees, etc. Honor Maid Negligee Co. 367,008; May 9; Serial No. 391,476; published Feb. 28, 1939.
Overalls, jumpers, uniforms, etc. L. Vineberg. 367,010; May 9; Serial No. 392,460; published Feb. 14, 1939.
Overcoats, topcoats, suits, etc. Trimount Clothing Co. Inc. 367,181; May 9; Serial No. 413,254; published Feb. 7, 1939.
Pajamas, Ladies'. Buddy Manufacturing, Inc. 367,063; May 9; Serial No. 407,529; published Feb. 21, 1939.
Panties, foundation garments, bathing suits, etc. Hollywood Silk Mills. 367,221; May 9; Serial No. 413,712; published Feb. 21, 1939.
Raincoats, ponchos, snow suits, etc. D. Carney. 367,123; May 9; Serial No. 412,023; published Jan. 3, 1939.
Robes, Women's lounging. Marshall Field & Company. 367,217; May 9; Serial No. 413,629; published Feb. 14, 1939.
Shirts, Men's outer. Frederick Loeser & Co. 367,207; May 9; Serial No. 413,517; published Feb. 21, 1939.
Shoes. Doyle Shoe Company Inc. 367,155–6; May 9; Serial Nos. 412,788–9; published Feb. 7, 1939.
Shoes. Dr. A. Posner Shoes, Inc. 367,112; May 9; Serial No. 411,708; published Feb. 21, 1939.
Shoes. Eby Shoe Corporation. 367,170; May 9; Serial No. 413,089; published Feb. 28, 1939.
Shoes. I. J. Hillman. 367,121; May 9; Serial No. 411,996; published Feb. 7, 1939.
Shoes. J. C. Moench. 367,196; May 9; Serial No. 413,415; published Feb. 14, 1939.
Shoes. J. C. Penney Company. 367,262; May 9; Serial No. 414,270; published Feb. 28, 1939.
Shoes. Mid-States Shoe Co. 367,116; May 9; Serial No. 411,891; published Jan. 17, 1939.
Shoes. Roosevelt Shoe Shop, Inc. 367,117; May 9; Serial No. 411,907; published Jan. 3, 1939.
Shoes. Saco-Moc Shoe Corporation. 367,151; May 9; Serial No. 412,732; published Feb. 21, 1939.
Shoes and slippers, Ladies' and misses' dress. Eastern Footwear Corp. 367,128; May 9; Serial No. 412,221; published Feb. 28, 1939.
Shoes, coats, suits, etc. J. Arbiter. 367,100; May 9; Serial No. 410,893; published Jan. 17, 1939.
Shoes; hats, scarfs, etc., Women's and misses'. Bonwit Teller, Inc. 367,274; May 9; Serial No. 414,390; published Feb. 28, 1939.
Shoes, Leather. A. Freedman & Sons Incorporated. 367,043; May 9; Serial No. 405,153; published Feb. 7, 1939.
Shoes, Ladies'. I. Miller & Sons, Inc. 367,093; May 9; Serial No. 410,601; published Feb. 28, 1939.
Shoes, Ladies'. Unity-Grossman Inc. 367,233; May 9; Serial No. 413,885; published Feb. 21, 1939.
Shoes, Men's. Commonwealth Shoe and Leather Company. 367,042; May 9; Serial No. 404,938; published Jan. 10, 1939.
Shoes, Men's. Commonwealth Shoe and Leather Company. 367,195; May 9; Serial No. 413,392; published Feb. 14, 1939.
Shoes, Women's. Bond Shoe Co. 367,081; May 9; Serial No. 409,341; published Jan. 3, 1939.
Shoes, Women's and misses'. G. Edwin Smith Shoe Company. 367,120; May 9; Serial No. 411,973; published Feb. 28, 1939.
Slips, Women's. Laros Textiles Company. 367,158; May 9; Serial No. 412,818; published Feb. 14, 1939.
Soles and heels for shoes, Composition. Avon Sole Company. 367,144; May 9; Serial No. 412,691; published Feb. 7, 1939.
Suits and overcoats, and women's suits and coats, Men's. A. Sagner & Sons, Inc. 367,160; May 9; Serial No. 412,830; published Feb. 14, 1939.
Suits, coats, vests, etc. S. Makransky & Sons. 367,175–6; May 9; Serial Nos. 413,189–90; published Feb. 7, 1939.
Suits, topcoats, and overcoats. Max Udell Sons & Co. 367,177; May 9; Serial No. 413,203; published Feb. 7, 1939.
Suits, topcoats, overcoats, etc. Linpark Clothing Corp. 367,023; May 9; Serial No. 400,603; published Feb. 14, 1939.
Suits, sweaters, blouses, etc., Bathing. Lord & Taylor. 367,068; May 9; Serial No. 408,247; published Feb. 28, 1939.
Suspenders. A. Stein & Company. 367,021; May 9; Serial No. 400,326; published Jan. 17, 1939.
Sweaters, bathing suits and trunks. S. Blechman & Sons, Inc. 367,288; May 9; Serial No. 414,518; published Feb. 21, 1939.
Topcoats and overcoats, Men's. Jacob Siegel Company. 367,152; May 9; Serial No. 412,734; published Feb. 14, 1939.
Top coats, overcoats, and rainproof coats, etc. Lamm Brothers, Incorporated. 367,009; May 9; Serial No. 392,372; published Aug. 24, 1937.
Trousers, mackinaw jackets, etc. Kendale Mfg. Co. 367,222; May 9; Serial No. 413,716; published Feb. 14, 1939.
Underwear. Vanity Fair Silk Mills. 367,182–3; May 9; Serial Nos. 413,255–6; published Feb. 7, 1939.
Underwear, and children's pajamas and nightgowns, Ladies' and children's. Belle Knitting Corp. 367,194; May 9; Serial No. 413,387; published Feb. 14, 1939.
Underwear, gloves, hosiery, etc. Julius Kayser & Co. 367,032; May 9; Serial No. 401,489; published Feb. 7, 1939.
Wear, Men's. Allied Stores Corporation. 367,074; May 9; Serial No. 408,825; published Feb. 7, 1939.

CLASS 40

Artificial insects, novelty jewelry, and hair ornaments. Oregon Waters Fly Co. 367,205; May 9; Serial No. 413,484; published Feb. 14, 1939.
Braids, Millinery. Henry Pollak, Inc. 367,254; May 9; Serial No. 414,203; published Feb. 28, 1939.
Buttons. Rochester Button Company. 367,106; May 9; Serial No. 411,546; published Feb. 7, 1939.
Combs. Fosgood Corporation. 367,172; May 9; Serial No. 413,122; published Jan. 24, 1939.
Combs. New York Hamburger Gummi-Waaren Compagnie. 367,031; May 9; Serial No. 401,399; published Jan. 17, 1939.
Elastic webbing, Narrow. American Mills Company. 367,129; May 9; Serial No. 412,244; published Feb. 7, 1939.
Initials, alphabetical letters, and monograms made of fabric. Auto-Gram Manufacturing Co. 367,079; May 9; Serial No. 409,117; published Feb. 7, 1939.
Pins and needles, Knitting. T. C. Usher. 367,126; May 9; Serial No. 412,204; published Feb. 7, 1939.
Toilet articles, novelties, and the like. Schwartz-Gilbert Co. 367,108; May 9; Serial No. 411,660; published Jan. 10, 1939.

CLASS 41

Umbrellas and parasols. M. H. Siegel. 367,238; May 9; Serial No. 414,009; published Feb. 21, 1939.

CLASS 42

Blankets, tricots, and bed covers. Merkel & Kienlin, G. m. b. H. 367,054; May 9; Serial No. 406,934; published Feb. 28, 1939.
Curtain materials in the piece. Powdrell & Alexander, Inc. 367,353; May 9.
Fabrics, Textile. J. R. Lister. 367,344; May 9.
Piece goods. Lesher, Whitman & Co. 126,557; renewed Sept. 16, 1939.
Rayon and spun rayon mixtures, Spun. Cold Spring Bleachery. 367,226; May 9; Serial No. 413,775; published Feb. 28, 1939.
Sheets, pillow cases, table cloths, etc. Maison Blanche Company. 367,224; May 9; Serial No. 413,765; published Feb. 28, 1939.

CLASS 43

Thread, Cotton and woolen. Cynthia Mills. 367,171; May 9; Serial No. 413,113; published Feb. 14, 1939.
Yarns. Celanese Corporation of America. 367,189–90; May 9; Serial Nos. 413,333–4; published Feb. 7, 1939.
Yarns. Fleisher Yarns, Inc. 367,178; May 9; Serial No. 413,213; published Feb. 7, 1939.
Yarns. Fleisher Yarns, Inc. 367,179; May 9; Serial No. 413,214; published Feb. 21, 1939.
Yarns and yarns of all types, Cotton. Aberfoyle Manufacturing Co. 367,219; May 9; Serial No. 413,664; published Feb. 14, 1939.

CLASS 44

Castings metals used in dentistry. Williams Gold Refining Company. 367,322; May 9; Serial No. 414,976; published Feb. 28, 1939.
Electrosurgical apparatus. Birtcher Corporation. 367,316; May 9; Serial No. 414,911; published Feb. 28, 1939.
Fever machines. General Motors Corporation. 367,306; May 9; Serial No. 414,732; published Feb. 28, 1939.
Hearing aid, Electrical. Globe Phone Manufacturing Corporation. 367,064; May 9; Serial No. 407,900; published Oct. 11, 1938.
Medicine kits, Pocket. Thompson's Ltd. 367,305; May 9; Serial No. 414,713; published Feb. 28, 1939.
Teeth, crowns, and bridges, and material used in the making thereof, Artificial. R. J. Rothstein. 367,332; May 9.

Vibrators, infra red ray lamps, and therapeutic lamps. Electric. Knapp-Monach Company. 367,005; May 9; Serial No. 381,768; published Feb. 22, 1938.

CLASS 45

Beverage, Cerial. Frank Fehr Brewing Co. 367,216; May 9; Serial No. 413,627; published Feb. 28, 1939.
Beverages and extracts and flavorings used in making the same. Irving Beverage Co. 367,296; May 9; Serial No. 414,631; published Feb. 28, 1939.
Beverages, and syrup for use in making the same. R. G. Reynolds. 367,282; May 9; Serial No. 414,469; published Feb. 28, 1939.
Canned citrus juices. Harlingen Canning Co. 367,357; May 9.

CLASS 46

Bakers materials. W. R. Holtz. 367,111; May 9; Serial No. 411,692; published Feb. 28, 1939.
Bread, cakes, cookies, etc. D. G. Williams. 367,334; May 9.
Candy. See's Candy Shops, Inc. 367,056; May 9; Serial No. 406,986; published Feb. 28, 1939.
Candy. Sisco-Hamilton Co. 367,193; May 9; Serial No. 413,365; published Feb. 28, 1939.
Canned fruits. United Packing Corporation. 367,007; May 9; Serial No. 388,735; published Apr. 6, 1937.
Canned vegetables, candy, mayonnaise, etc. Adolph Goldmark & Sons, Corp. 367,017; May 9; Serial No. 399,231; published Feb. 28, 1939.
Cereal grasses, Dehydrated. American Daries, Incorporated. 367,058; May 9; Serial No. 407,210; published Feb. 28, 1939.
Coffee. Savemore Markets, Inc. 367,263; May 9; Serial No. 414,273; published Feb. 28, 1939.
Coffee and tea. Dayton Spice Mills Co. 367,072; May 9; Serial No. 408,599; published Feb. 28, 1939.
Coffee, Packaged. Boyd Tea Company. 367,114; May 9; Serial No. 411,852; published Feb. 28, 1939.
Confections, Frozen. Shiver Cake Corporation of America. 367,258; May 9; Serial No. 414,242; published Feb. 28, 1939.
Crackers and graham crackers and wafers. Associated Biscuit Co. 367,220; May 9; Serial No. 413,696; published Feb. 28, 1939.
Drinks, chocolate flavor syrup and chocolate flavor powder, Nutritive chocolate flavored. Jacob House & Sons. 367,157; May 9; Serial No. 412,812; published Feb. 28, 1939.
Extracts and flavorings. Paramount Laboratories, Incorporated. 367,045; May 9; Serial No. 405,626; published Feb. 28, 1939.
Flavor accelerator. Charles Herendeen & Sons, Inc. 367,250; May 9; Serial No. 414,112; published Feb. 28, 1939.
Flavorings. E. Sommerfield. 367,004; May 9; Serial No. 369,379; published Feb. 28, 1939.
Flour and rye-flour, Wheat. Hecker-Jones-Jewell Milling Company. 125,341; renewed May 13, 1939.
Flour, Self-rising. Lawrenceburg Roller Mills Co. 126,443; renewed Aug. 26, 1939.
Flour, Wheat. Commercial Milling Company. 125,562; renewed May 27, 1939.
Flour, Wheat. Russell-Miller Milling Co. 367,270; May 9; Serial No. 414,369; published Feb. 28, 1939.
Food product. Purity Products, Inc. 367,202; May 9; Serial No. 413,457; published Feb. 28, 1939.
Food product, Concentrated. Larx Company. 367,067; May 9; Serial No. 408,111; published Feb. 28, 1939.
Fruit and vegetables, Fresh. M. Anderson. 367,098; May 9; Serial No. 410,983; published Feb. 28, 1939.
Fruit, Fresh citrus. A. F. Call Estate. 367,051; May 9; Serial No. 406,370; published Jan. 17, 1939.
Fruits, Fresh citrus. H. S. Hazeltine. 367,227; May 9; Serial No. 413,782; published Feb. 28, 1939.
Fruits, Fresh citrus. Mariana Grove Packers, Inc. 367,076; May 9; Serial No. 408,959; published Feb. 28, 1939.
Fruits, Fresh citrous. Mariana Grove Packers, Inc. 367,077; May 9; Serial No. 409,047; published Feb. 28, 1939.
Fruits, Fresh citrus. Oxnard Citrus Assn. 126,738; renewed Sept. 30, 1939.
Fruits, Fresh citrus. Valley View Ranch; 126,801; renewed Sept. 30, 1939.
Limes, Fresh. E. Johnston. 367,011; May 9; Serial No. 393,490; published Feb. 28, 1939.
Meat loaves. F. G. Vogt & Sons, Incorporated. 367,284–5; May 9; Serial Nos. 414,477–8; published Feb. 28, 1939.
Meats and meat products, etc. Oscar Mayer & Company. 367,069; May 9; Serial No. 408,350; published Feb. 28, 1939.
Olive Oil. Supreme Olive Oil Corporation. 367,283; May 9; Serial No. 414,474; published Feb. 28, 1939.
Product consisting of skim milk solids in powder form. Golden State Company. 367,094; May 9; Serial No. 410,652; published Feb. 28, 1939.
Rolls, Cinnamon. S. K. Lively. 367,053; May 9; Serial No. 406,929; published Feb. 28, 1939.
Sauce for meats, salads, and sea foods. May Corris Foods Company. 367,223; May 9; Serial No. 413,725; published Feb. 28, 1939.
Spices, Packaged. Boyd Tea Company. 367,115; May 9; Serial No. 411,853; published Feb. 28, 1939.
Stabilizer for ice cream, Colloidal. Algin Corporation of America. 367,086; May 9; Serial No. 409,756; published Feb. 28, 1939.
Syrup, Table. Wofford Syrup Co. 367,311; May 9; Serial No. 414,808; published Feb. 28, 1939.
Tomato paste. Emmolo Bros. 125,134; renewed Apr. 15, 1939.
Vegetable food product. Dr. A. Wander S. A. 367,101; May 9; Serial No. 411,257; published Feb. 28, 1939.
Vegetables, Fresh. R. A. Cutler. 367,061; May 9; Serial No. 407,368; published Nov. 29, 1938.
Vinegar, Apple-cider. National Fruit Product Company. 126,728; renewed Sept. 30, 1939.

CLASS 47

Wines. G. Loewus & Co. 367,013; May 9; Serial No. 395,305; published Nov. 30, 1937.
Wines. Garcia Wine Corp. 367,354; May 9.

CLASS 48

Beer and ale. Horlacher Brewing Company. 367,228; May 9; Serial No. 413,786; published Feb. 28, 1939.

CLASS 49

Rum. Many, Blanc & Co. 367,315; May 9; Serial No. 414,879; published Feb. 28, 1939.
Rum. Nacional Destilerias Corporation. 367,267; May 9; Serial No. 414,360; published Feb. 28, 1939.
Rum, whiskey, gin, etc. Joseph S. Finch and Company. 367,044; May 9; Serial No. 405,553; published Feb. 28, 1939.
Rum, whiskey, gin, etc. Siboney Distilling Corporation. 367,271; May 9; Serial No. 414,373; published Feb. 28, 1939.
Whiskey. Bloomingdale Bros., Inc. 367,346; May 9.
Whiskey. United Cigar-Whelan Stores Corporation. 367,352; May 9.
Whiskey, Bourbon. Belle Meade Products Company. 367,326; May 9; Serial No. 415,030; published Feb. 28, 1939.
Whisky, Scotch. Cluff & Pickering, Ltd. 367,292; May 9; Serial No. 414,554; published Feb. 28, 1939.
Whiskey, Straight bourbon. Hirsch Distilling Company. 367,295; May 9; Serial No. 414,600; published Feb. 28, 1939.

CLASS 50

Draperies and window hangings, Preformed treated paper. Pervel Distributors, Inc. 367,206; May 9; Serial No. 413,485; published Feb. 28, 1939.
Fabric treated with non-slipping material. Behr-Manning Corporation. 367,278; May 9; Serial No. 414,430; published Feb. 28, 1939.
Ladders. Moulton Ladder Manufacturing Co. 367,298–9; May 9; Serial Nos. 414,638–9; published Feb. 28, 1939.
Tent drapes, Chapel. Sterll Manufacturing Company. 367,055; May 9; Serial No. 406,949; published Feb. 28, 1939.
Waterproof and silk fabrics. L. Perry. 367,103; May 9; Serial No. 411,340; published Nov. 22, 1938.

LIST OF LABELS

Awful Fresh MacFarlane, the Scotch Candymaker. For Chocolate Creams and Chews. Awful Fresh MacFarlane. 52,948; May 9.
Boyd's. For Shoes. Frank C. Meyer Co. Inc. 52,959; May 9.
Carmel Brand Kosher Natural American Cheese. For Cheese. U. S. Alaska Herring Co. Inc. 52,965; May 9.
Carnival. For Pop Corn. American Pop Corn Company. 52,945; May 9.
Directions. For Facial Oil. Graltmore Company. 52,951; May 9.
Dr. Loughney's "Anti-Spasthma-Oyl". For an Oil for Relief of the Symptoms of Asthma, Hay Fever, Bronchitis, Rhinitis, Laryngitis, Pharyngitis, Head Colds, Chest Colds and Pneumonia. A. M. Loughney. 52,955; May 9.
Fresh Wheat Bread. For Bread. Waxide Paper Company. 52,966; May 9.
Full O' Sun. For Texas Vegetables. J. Wieschan. 52,967; May 9.
Griffith's Sausage Seasoning. For Sausage Seasoning. Griffith Laboratories, Inc. 52,952; May 9.
Halutz. For Cigarettes. Near East Tobacco Company. 52,961; May 9.
Hunter Distilled London Dry Gin. For Gin. Hunter Baltimore Rye Distillery, Inc. 52,953; May 9.
Jolly Time. For Pop Corn. American Pop Corn Company. 52,946; May 9.
Levet. For Stockings. Benj. Levett & Bros. 52,954; May 9.
Markus Cleanseen. For Cold Cream. C. I. Markus. 52,958; May 9.

My-Am-Eye. For Cigars. J. B. Lucas. 52,956; May 9.
Nevr-Dull, Magic Wadding Polish. For a Wadding Polish for All Metals. George Basch Co. 52,949; May 9.
Orogold. For a Preparation Containing Blended Fresh Orange, Sugar, Certified Color, 1/10 of 1% Sodium Benzoate, Fruit Acid and Flavor for Making a Beverage. Orogold Co. 52,962; May 9.
Partee's Anti-Piles. For a Liquid Astringent Used to Allay Protruding, Bleeding and Itching Hemorrhoids (Piles). C. W. Partee. 52,963; May 9.
Sigari Lupo. For Cigars. Lupo Cigar Company. 52,957; May 9.
Ths Smile Powder Puff. For Powder Puffs. M. Chamberlin. 52,950; May 9.
Waltzette. For Pumps. Frank C. Meyer Co. Inc. 52,960; May 9.
Waxed Lunch Wraps. For Waxed Paper. American Tissue Mills. 52,947; May 9.
Wonder, the Leather with the Iron Grip. For Round Leather Belting. Pennwell Oil & Belting Co. 52,964; May 9.

LIST OF PRINTS

Marin-Dell Creamlined. For Milk. Marin Dairymen's Milk Co. 17,380; May 9.
Souvenir—Great Smoky Mountains Nat'l Park—Genuine Indian Arrowhead. For Genuine Indian Arrowheads. J. G. Johnson. 17,379; May 9.
Tasty-Pie Skyway Lunch. For Pie. Tasty Baking Company. 17,382; May 9.
Wat-A-Pad. For Trusses. L. A. Fritsch. 17,378; May 9.
"Yankee" Handyman Screw Driver with these Accessories Bores Holes Countersinks for Head of Screw Drives Small Screws. For Screw Drivers. North Bro's. M'f'g. Co. 17,381; May 9.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

California Fruit Growers Exchange. (See Wilson, Clarence W., assignor.)

Crossley, Alfred, and C. C. Neighbors, assignors to Johnson Laboratories, Inc., Chicago, Ill. High-frequency inductance. Re. 21,074; May 9.

Dayton Rubber Manufacturing Company, The. (See Freedlander, Abraham L., assignor.)

Freedlander, Abraham L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Belt. Re. 21,075; May 9.

Glomstead, Edwin E., Menasha, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Sanitary napkin. Re. 21,076; May 9.

International Cellucotton Products Company. (See Glomstead, Edwin E., assignor.)

Johnson Laboratories, Inc. (See Crossley, A. and Neighbors, assignors.)

Neighbors, Charles C. (See Crossley, A., and Neighbors.)

Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Pectate and making same. Re. 21,077; May. 9.

LIST OF DESIGN PATENTEES

American Gas Machine Company. (See Teague, Walter D., assignor.)

Babo, Albert G., South Pasadena, assignor to The Birtcher Corporation, Los Angeles, Calif. Electrical-instrument casing. 114,628; May 9.

Ball Brothers Company. (See Petty, Fred J., assignor.)

Beaver Pipe Tools Inc. (See Pealer, Robert B., assignor.)

Becker, Frank J., Independence, assignor of one-half to C. T. Bombeck, Sr., Kansas City, Mo. Combined pencil sharpener, letter opener, eraser, and bottle cap remover. 114,629; May 9.

Bennett, Gordon O., and C. A. Deisenroth, Oakland, Calif. Bread wrapper. 114,732; May 9.

Berkson, George, Chicago, Ill. Automobile gear shift knob or similar article. 114,630; May 9.

Bernstein, Ben de F., New York, N. Y. Watch case. 114,631; May 9.

Birtcher Corporation, The. (See Babo, Albert G., assignor.)

Bombeck, Charles T., Sr. (See Becker, Frank J., assignor.)

Bourne, Douglas, assignor to Onondaga Pottery Company, Syracuse, N. Y. Plate or similar article. 114,670; May 9.

Brittan, Gordon G., Hubbard Woods, assignor to Warwick Manufacturing Corporation, Chicago, Ill. Automobile radio set. 114,632; May 9.

Brotzman, Walter F., and B. H. Statter, assignors to Display Center, Baltimore, Md. Phonograph record rack. 114,671; May 9.

Buckingham, John D., assignor to Lucien Le Long, Inc., Chicago, Ill. Perfume bottle or similar article. 114,652; May 9.

Buckingham, John D., assignor to Lucien Le Long, Inc., Chicago, Ill. Perfume bottle display and holder therefor. 114,653; May 9.

Buxton, Warner R., Longmeadow, Mass. Flexible pocket receptacle. 114,694; May 9.

Camp, John O. (See Heil, N. E., and Camp.)

Castro, Edward S. (See Valenzuela, P. G., and Castro.)

Christoph, Charles A., Amarillo, Tex. Lamp. 114,695; May 9.

Coleman, Tora, New York, N. Y. Dress ensemble. 114,697; May 9.

Connecticut Web & Buckle Company, The. (See Oppenheim, Albert, assignor.)

Connors, James J., assignor to The Charles Parker Company, Meriden, Conn. Bracket for bathroom fixtures. 114,696; May 9.

Cordley & Hayes. (See Self, Edgar A., assignor.)

Coughlan, Gerald N., East Orange, N. J. Combined slicer and corer. 114,672; May 9.

Cravaritis, Andrew, assignor to National Silver Deposit Ware Co., Inc., New York, N. Y. Cocktail shaker. 114,673; May 9.

Cressaty, George M., New York, N. Y. Illuminable vanity case or similar article. 114,698; May 9.

Crossett, Sidney M. (See Rittenhouse, L., and Crossett.)

Danescu, Anna, Detroit, Mich. Toy. 114,699; May 9.

Deere, John, Tractor Company. (See Dreyfuss, Henry, assignor.)

Deisenroth, Carl A. (See Bennett, G. O., and Deisenroth.)

Delman, Herman B., New York, N. Y. Shoe. 114,633; May 9.

Demick, Kenneth C., Boston, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Heel. 114,634; May 9.

Detrola Corporation. (See Walker, George W., assignor.)

Devoe & Raynolds Co. (See Kenway, Ivor, assignor.)

Display Center. (See Brotzman, W. F., and Statter, assignors.)

Dondo, Carina, New York, N. Y. Textile fabric or similar article. 114,740; May 9.

Dreyfuss, Henry, New York, N. Y., assignor to John Deere Tractor Company, Waterloo, Iowa. Combined tractor radiator cover and hood. 114,635; May 9.

Du Pont, E. I., de Nemours & Company. (See Kahn, Lester, assignor.)

Emery, William M., Cleveland Heights, and A. S. Gould, Lakewood, assignors to The Oster Manufacturing Company, Cleveland, Ohio. Power driven pipe stand. 114,654; May 9.

Erickson, C. E., Company. (See Erickson, Ernest R., assignor.)

Erickson, Ernst R., assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa. Advertising door pull. 114,636; May 9.

Feintuck, Rose, New York, N. Y. Dress. 114,733; May 9.

Flusser, Charlotte, New York, N. Y. Dress ensemble. 114,700; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,701; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,702; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,703; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,704; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,705; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,706; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,707; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,708; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,709; May 9.

Fracchia, Pauline, New York, N. Y. Dress. 114,710; May 9.

General Electric Company. (See Propernick, August A., assignor.)

Goodrich, B. F., Company, The. (See Demick, Kenneth C., assignor.)

Gould, Arthur S. (See Emery, William M., and Gould.)

Grobstein, Irving, New York, N. Y. Dress ensemble. 114,711; May 9.

Gross, Arthur R., St. Paul, Minn. Display stand. 114,674; May 9.

Gross, Arthur R., St. Paul, Minn. Display stand. 114,675; May 9.

Hazel-Atlas Glass Company, The. (See Spence, James E., assignor.)

Heichelbech, Edward, et al. (See Walkley, James M., assignor.)

Heil, Norman E., Ridgewood, and J. O. Camp, Glen Rock, N. J. Dispensing cabinet. 114,637; May 9.

Heisey, A. H., & Company. (See Heisey, T. Clarence, assignor.)

Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass tumbler or article of similar nature. 114,712; May 9.

Henderson, Kathryn D., New York, N. Y. Mitten. 114,680; May 9.

Hendler, Louis J., San Francisco, Calif. Ash tray. 114,679; May 9.

Henkin, Ruth, New York, N. Y. Dress. 114,713; May 9.

Hickok Manufacturing Company. (See Manning, Daniel T., assignor.)

Hirsch, B. F., Inc. (See Simon, William, assignor.)

Hirsch, Jules, New York, N. Y. Brooch or similar article. 114,655; May 9.

Hirsch, Jules, New York, N. Y. Brooch or similar article. 114,656; May 9.
Hoban, Fairfield W., assignor to Stewart and McGuire, Incorporated, New York, N. Y. Vending machine casing or the like. 114,657; May 9.
Hoffman, Frank B., Chicago, Ill. Ash tray. 114,676; May 9.
Jakway, Walter M., Hollywood, Calif. Bottle or similar container. 114,677; May 9.
James, Earl M., Maplewood, Mo. Atomizer. 114,678; May 9.
Kahn, Lester, Upper Montclair, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Combination comb and case. 114,658; May 9.
Kane, Martine, assignor to Helena Rubenstein, Inc., New York, N. Y. Bottle. 114,659; May 9.
Kelley, Richard P., et al. (See Walkley, James M., assignor.)
Kellogg, Homer B., Highland Park, Mich. Stool. 114,681; May 9.
Kenney, John E., Portland, Oreg. Combined air conditioner and ozonizer. 114,682; May 9.
Kenway, Ivor, New York, N. Y., assignor to Devoe & Raynolds Co., Inc. Color psychoanalysis device. 114,683; May 9.
Kerckhoff, Richard D., Richmond Heights, assignor to Pevely Dairy Company, St. Louis, Mo. Bottle. 114,660; May 9.
Klein, David, New York, N. Y. Dress. 114,714; May 9.
Klein, David, New York, N. Y. Dress. 114,734; May 9.
Knowles, Karl R. (See Walters, C. G., and Knowles.)
Leff, Jacques H., New York, N. Y. Brooch or similar article. 114,661; May 9.
Leff, Jacques H., New York, N. Y. Brooch or similar article. 114,662; May 9.
Leff, Jacques H., New York, N. Y. Brooch or similar article. 114,663; May 9.
Leff, Jacques H., New York, N. Y. Brooch or similar article. 114,664; May 9.
Leigh, Cyril W., East Orange, N. J., assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. 114,684; May 9.
Le Long, Lucien, Inc. (See Buckingham, John D., assignor.)
Manning, Daniel T., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender end or the like. 114,638; May 9.
Manus, Bernice S., Brooklyn, N. Y. Typewriter key top. 114,735; May 9.
Mascitelli, Marie V., New York, N. Y. Dress. 114,736; May 9.
Massow, Morris, New York, N. Y. Dress. 114,715; May 9.
Menger, Edward W., San Antonio, Tex. Door stop. 114,639; May 9.
Michelson, Margaret, New York, N. Y. Dress. 114,737; May 9.
Mikesell, Pearl W., Dayton, Ohio. Cracker tray. 114,685; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Bicycle frame. 114,716; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Bicycle frame. 114,717; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Sink. 114,640; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Sink. 114,641; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Sink. 114,642; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Combined sink and cabinet. 114,643; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Sink cabinet. 114,644; May 9.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Combined sink and drain board. 114,645; May 9.
Morimura Bros. Inc. (See Leigh, Cyril W., assignor.)
Mülhens, Paul P., Cologne, Germany. Bottle. 114,718; May 9.
National Silver Deposit Ware Co. (See Cravaritis, Andrew, assignor.)
Noble, Olbert C., assignor to Tygart Valley Glass Company, Washington, Pa. Jar. 114,665; May 9.
Onondaga Pottery Company. (See Bourne, Douglas, assignor.)
Oppenheim, Albert, Milford, assignor to The Connecticut Web & Buckle Company, Bridgeport, Conn. Rotary back for suspenders. 114,646; May 9.
Oster Manufacturing Company, The. (See Emery, W. M., and Gould, assignors.)
Paley, Samuel T., New York, N. Y. Textile fabric. 114,719; May 9.
Parker, Charles, Company, The. (See Connors, James J., assignor.)
Parker, Harold B., Pratt, Kans. Housing for an air conditioning expansion coil and fan. 114,666; May 9.
Pealer, Robert B., assignor to Beaver Pipe Tools Inc., Warren, Ohio. Electric power drive unit for use with hand cutting tools. 114,720; May 9.
Petty, Fred J., assignor to Ball Brothers Company, Muncie, Ind. Glass jar. 114,686; May 9.
Pevely Dairy Company. (See Kerckhoff, Richard D., assignor.)
Philippe, Alfred, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Bracelet. 114,721; May 9.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Bracelet. 114,722; May 9.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Bracelet. 114,723; May 9.
Propernick, August A., Bridgeport, Conn., assignor to General Electric Company. Waffle iron or similar article. 114,687; May 9.
Rittenhouse, A. E., Co., The. (See Rittenhouse, L., and Crossett, assignors.)
Rittenhouse, Lloyd, Honeoye Falls, and S. M. Crossett, Rochester, assignors to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Signal device. 114,688; May 9.
Roberts, Henry T., assignor to J. P. Seeburg Corporation, Chicago, Ill. Phonograph cabinet top member or the like. 114,647; May 9.
Robinson, Grace C., New York, N. Y. Bottle or similar container. 114,667; May 9.
Rubenstein, Helena, Inc. (See Kane, Martine, assignor.)
Scharlott, Jack, New York, N. Y. Dress. 114,738; May 9.
Schumann, Otto A., Houston, Tex. Tellurian. 114,648; May 9.
Scofield, Theodore J., assignor to Sparks-Withington Company, Jackson, Mich. Combined visual and audible alarm. 114,724; May 9.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Seeburg, J. P., Corporation. (See Roberts, Henry T., assignor.)
Self, Edgar A., Bronxville, assignor to Cordley & Hayes, New York, N. Y. Water cooler cabinet. 114,689; May 9.
Shelton, James W., et al. (See Walkley, James M., assignor.)
Silex Company, The. (See Wolcott, Frank E., assignor.)
Simon, William, Clifton, N. J., assignor to B. F. Hirsch, Inc., New York, N. Y. Combined setting and jewels. 114,640; May 9.
Sparks-Withington Company. (See Scofield, Theodore J., assignor.)
Spence, James E., assignor to The Hazel-Atlas Glass Company, Wheeling, W. Va. Drinking glass. 114,690; May 9.
Statter, Banjamin H. (See Brotzman, W. F., and Statter.)
Sterngold, Jacob M., New York, N. Y. Dress. 114,725; May 9.
Sterngold, Jacob M., New York, N. Y. Dress. 114,726; May 9.
Sterngold, Jacob M., New York, N. Y. Dress. 114,727; May 9.
Sterngold, Jacob M., New York, N. Y. Dress. 114,728; May 9.
Sterngold, Jacob M., New York, N. Y. Dress. 114,729; May 9.
Stewart and McGuire, Incorporated. (See Hoban, Fairfield W., assignor.)
Stone, Mollie, New York, N. Y. Dress. 114,730; May 9.
Stone, Mollie, New York, N. Y. Dress. 114,739; May 9.
Teague, Walter D., New York, N. Y., assignor to American Gas Machine Company, Incorporated, Albert Lea, Minn. Space heater. 114,691; May 9.
Tresenberg, Paul, New York, N. Y. Massage roller. 114,731; May 9.
Trifari, Krussman & Fishel Inc. (See Philippe, Alfred, assignor.)
Tygart Valley Glass Company. (See Noble, Olbert C., assignor.)
Valenzuela, Pedro G., and E. S. Castro, Kapapala, Pahala, Kau, Hawaii. Game table. 114,650; May 9.
Walker, George W., Pleasant Ridge, assignor to Detrola Corporation, Detroit, Mich. Radio cabinet. 114,651; May 9.
Walkley, James M., assignor of twenty-five percent to J. W. Shelton, twenty-five percent to R. P. Kelley, and fifteen percent to E. Helchelbech, Akron, Ohio. Combined clock and smoking stand. 114,668; May 9.
Walters, Charles G., Storm Lake, and K. R. Knowles, Spencer, Iowa. Pump. 114,669; May 9.
Warwick Manufacturing Corporation. (See Brittan, Gordon G., assignor.)
Wolcott, Frank E., West Hartford, Conn., assignor to The Silex Company. Coffee maker. 114,692; May 9.
Wood, Clarence H., South Lancaster, Mass. Wooden chair. 114,693; May 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Winding machine. 2,157,105; May 9.
Abbott Machine Company. (See Abbott, Edward J., assignor.)
Abendroth, Elmer T., assignor to The Oakes Manufacturing Company, Tipton, Ind. Electrical switch. 2,157,156; May 9.
Abild, Robert N. (See Hutt, R. B. W., and Abild.)
Abrams, Victor R., East Orange, N. J., assignor to Sulfo Corporation of America. Freely flowing suspensions of pigments and other particles. 2,157,378; May 9.
Abrams, Victor R., East Orange, N. J., assignor to Sulfo Corporation of America. Suspensions for lubricating and other purposes. 2,157,379; May 9.
Abrams, Victor R., East Orange, N. J., assignor to Sulfo Corporation of America. Suspensions for coating and other purposes. 2,157,380; May 9.
Adair, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Bendix Radio Corporation, Baltimore, Md. Electrical system. 2,157,841; May 9.
Adams, James F. (See Nikitin, A. A., and Adams.)
Adlam, Thomas N., West Orange, N. J. Steam trap. 2,157,470; May 9.
Admos Bleibronze Dr. Springorum & Co. Kom.-Ges. (See Jaeger, Hans, assignor.)
Aeroplane Improvements Limited. (See Latulippe, Eddy D., assignor.)
Agar Manufacturing Corporation. (See Brite, Frontice H., assignor.)
Agfa Ansco Corporation. (See Schneider, W., and Bauer, assignors.)
Aktiebolaget Atlas Diesel. (See Thege, E. O. P., and Julius, assignors.)
Aktiebolaget Linham. (See Lindstedt, Gustaf A., assignor.)
Aktiebolaget Westerlin & Co. (See Danielsson, Yngve A. F., assignor.)
Aktiengesellschaft für Glass industrie vorm. Friedr. Siemens. (See Schlösinger, Josef, assignor.)
Alabama Tractor and Plow Company. (See Stancil, Fred C., assignor.)
Albersheim, Walter J., Great Neck, and W. J. Sette, Jackson Heights, Long Island, assignors to Electrical Research Products, Inc., New York, N. Y. Recording system. 2,157,880; May 9.
Alexanderwerk A. Von Der Nahmer, Aktiengesellschaft. (See Scherbaum, Bernhard, assignor.)
Alfaro, Heraclio, Boston, Mass. Wobbler actuating piston for barrel engines. 2,157,586; May 9.
Allen, Horace C. (See Grundmann, G. L., and Allen.)
Allen, Raymond W., and T. A. Te Grothenhuis, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Fabric testing apparatus. 2,157,092; May 9.
Alles, Fred W., Glassport, and F. N. Sarber, McKeesport, Pa., assignors to National Tube Company. Conditioning metal stock while in transit. 2,157,313; May 9.
Alriq, Hubert, Paris, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Automatic regulating device for current rectifying apparatus. 2,157,977; May 9.
Aluminum Company of America. (See Armitage, J. L., and Sharp, assignors.)
Aluminum Company of America. (See Somers, Francis P., assignor.)
Aluminum Company of America. (See Work, H. K., and Slunder, assignors.)
Amco, Incorporated. (See Spencer, H. F., and Morton, assignors.)
American Brass Company, The. (See Smith, C. S., and Palmer, assignors.)
American Can Company. (See Hothersall, J. M., and Reid, assignors.)
American Coach and Body Company. (See Troche, Herman J., assignor.)
American Cyanamid Company. (See Jayne, David W., Jr., assignor.)
American Floor Surfacing Machine Company, The. (See Kneisley, Richard F., assignor.)
American Locomotive Company. (See Fleck, John F., assignor.)
American-National Company, The. (See Snell, Samuel A., assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Radiator Company. (See Cornell, Edward S. Jr., assignor.)
American Steel and Wire Company of New Jersey, The. (See Brickman, A. E., and Gleason, assignors.)
Anaconda Wire & Cable Company. (See Little, Thomas J., assignor.)
Anderson, John W., assignor to Productive Inventions, Inc., Gary, Ind. Glass cleaner. 2,157,314; May 9.
Anderson, Samuel M., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Air conditioning system utilizing refrigeration. 2,157,685; May 9.
Andersson, Nils V., Stockholm, Sweden. Beam. 2,157,104; May 9.
Andreasen, Alfred C., Oak Park, Ill. Valve means. 2,157,881; May 9.
Andrews Lead Company. (See Knapp, Alfred P., assignor.)
Andrews, Norman F. (See Coultas, W. J., and Andrews.)
Anketell, Edward N., assignor to The A. C. Gilbert Company, New Haven, Conn. Optical apparatus. 2,157,157; May 9.
Anschütz & Co., G. m. b. H. (See Beyerle, Konrad, assignor.)
Apple, Bessie D. (See Cotterman, Feederick W., assignor.)
Arado Flugzeugwerke Gesellschaft mit beschränkter Haftung. (See Rethel, Walter, assignor.)
Archibald, Francis M., Elizabeth, N. J., assignor to Standard Oil Development Company. Removing ash-forming constituents from a residual petroleum oil. 2,157,315; May 9.
Aris Gloves, Inc. (See Steinberger, Irwin, assignor.)
Arkus, James H., New York, N. Y. Sliding groove lock. 2,157,316; May 9.
Armacost, Wilbur H., assignor to The Superheater Company, New York, N. Y. Superheater boiler. 2,157,746; May 9.
Armitage, John L., and J. E. Sharp, New Kensington, assignors to Aluminum Company of America, Pittsburgh, Pa. Container and closure. 2,157,842; May 9.
Armitage, Joseph B., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine tool. 2,157,471; May 9.
Armour and Company. (See Keil, Havard L., assignor.)
Armour and Company. (See Ralston, A. W., and Selby, assignors.)
Armstrong, George C., and D. Ellis, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical contactor. 2,157,843; May 9.
Armstrong, George C., and D. Ellis, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electromagnet with shading coil. 2,157,844; May 9.
Armstrong, Merwin, Hinsdale, assignor to Page Engineering Company, Chicago, Ill. Cable reel. 2,157,781; May 9.
Art Metal Construction Company. (See Jones, J. R., and Gronberg, assignors.)
Ashlock, George W., Jr., Oakland, Calif. Fruit pitter. 2,157,518; May 9.
Ashworth, Daniel I., Wappingers Falls, assignor to The De Laval Separator Company, New York, N. Y. Purifying vegetable and animal oils. 2,157,882; May 9.
Associated Electric Laboratories, Inc. (See Crocker, Thomas F., assignor.)
Associated Electric Laboratories, Inc. (See Miller, Merton R., assignor.)
Associated Electric Laboratories, Inc. (See Nelson, Martin L., assignor.)
Atlantic Coast Fisheries Company, The. (See Raynolds, James A., Jr., assignor.)
Atlantic Elevator Company. (See Borden, Joseph H., assignor.)
Atlantic Refining Company, The. (See Ferris, Seymour W., assignor.)
Atti, Raphael, Union City, N. J. Automobile direction indicator. 2,157,317; May 9.
Auerbach, Rudolf, Dahlewitz Hoppegarten, and H. Burmeister, Berlin-Spandau, Germany, assignors to General Electric Company. Electric circuit interrupter. 2,157,883; May 9.
Automatic Instrument Company. (See Olson, Phillip W., assignor.)
Automotive Devices Corporation. (See Farrell, Joseph E., assignor.)
Awbrey, William P., Kansas City, Mo. Bar support and spacer. 2,157,275; May 9.
Baash-Ross Tool Company. (See Johnson, Glenn D., assignor.)
Back, William E., Oulton Broad, England. Model airplane or glider. 2,157,448; May 9.
Backer, Christian B., Ottawa, Ontario, Canada. Electric heating element. 2,157,884; May 9.

Baehr, Hans, and K. Braus, Leuna, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Cooling gases. 2,157,318; May 9.

Bailey, Richard W., Hale, England, assignor to General Electric Company. Joint for pipes and other metal members. 2,157,885; May 9.

Baisch, Carl F., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake mechanism. 2,157,091; May 9.

Baisch, Carl F., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake mechanism. 2,157,994; May 9.

Baker, Donald, assignor of one-half to A. N. Mumford, Portland, Oreg. Fly swatter. 2,157,106; May 9.

Baker Manufacturing Co. (See Walch, Jacob S., assignor.)

Baker, Ronald A., Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treatment of fabrics to prevent rotting. 2,157,727; May 9.

Baldwin Rubber Company. (See Glougie, Bert S., assignor.)

Baldwin Rubber Company. (See Vrooman, William S., assignor.)

Ballard, Charles H., assignor to Lindley Box & Paper Company, Marion, Ind. Box structure. 2,157,686; May 9.

Bancroft, Joseph, & Sons Co. (See Ford, Florence M., assignor.)

Bany, Herman, Lansdowne, Pa., assignor to General Electric Company. Control of electric switches. 2,157,810; May 9.

Barber-Colman Company. (See Lake, Harry E., assignor.)

Barera, Lawrence A. (See Darby, E. R., Barera, and Potter.)

Barker, Edwin H., Moylan, assignor to A. H. Wirz Inc., Chester, Pa. Single use tube. 2,157,646; May 9.

Barnes, John A. (See Dyer, H. T., and Barnes.)

Barrett Company, The. (See Fleckenstein, Frederick S., assignor.)

Barrie, Catherine, Cold Spring Harbor, N. Y. Cup and saucer basket for collective dish-washing. 2,157,276; May 9.

Bates Laboratories, Inc. (See Bonilla, Charles F., assignor.)

Bauer, Ernst. (See Schneider, W., and Bauer.)

Baxter, Thomas R. (See Webber, G. R., and Baxter.)

Bay, Thomas J., U. S. Navy. Condenser tube protector. 2,157,107; May 9.

Beach, Harold K., Cranford, N. J., assignor to Phelps Dodge Copper Products Corporation, New York, N. Y. Coiling mechanism. 2,157,811; May 9.

Becker, Oskar W., Heidelberg, assignor to firm of Naturin Gesellschaft mit beschränkter Haftung, Weinheim, Germany. Hardening structures produced from fibrous masses derived from animal hide substances. 2,157,319; May 9.

Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuit. 2,157,812; May 9.

Beeman, Henry F., Denver, Colo. Air conditioning apparatus. 2,157,519; May 9.

Beeny, Herbert H., Coventry, England, assignor to The Monarch Machine Tool Company, Sidney, Ohio. Hardening of metal surfaces. 2,157,948; May 9.

Beery, Joseph E., Columbus, Ohio. Bed commode. 2,157,394; May 9.

Behrens, Herbert C., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Ink fountain. 2,157,587; May 9.

Bell, Sidney R., Stamford, Conn. Toy typewriter. 2,157,108; May 9.

Bell Telephone Laboratories, Incorporated. (See Dehn, J. W., and Myers, assignors.)

Bell Telephone Laboratories, Incorporated. (See Doba, Stephen, Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Fisher, Harold J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Heising, Raymond A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hight, Stuart C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hovgaard, O. M., and Koerner, assignors.)

Bell Telephone Laboratories, Incorporated. (See Sowers, Nelson E., assignor.)

Bell, William D., Columbus, assignor to The Cleveland Heater Company, Cleveland, Ohio. Apparatus for controlling flow of fuel to a heating device. 2,157,109; May 9.

Bellis, Joseph, St. Paul, Minn. Governor for automotive vehicles. 2,157,472; May 9.

Bemis Bro. Bag Co. (See Williams, Russell J., assignor.)

Bemis, Henry P., Newton Center, Mass., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Making a flexible coupling. 2,157,093; May 9.

Bendix Aviation Corporation. (See McGrath, W. L., Ferguson, and Whitney, and Wertz, assignors.)

Bendix Radio Corporation. (See Adair, Samuel E., assignor.)

Bendix-Westinghouse Automotive Air Brake Company. (See Casler, Roger H., assignor.)

Bennett, Frank A. (See Hallowell, H. T., and Bennett.)

Benson, Simon, Chicago, Ill. Mechanical massaging apparatus. 2,157,395; May 9.

Benz, Johannes, Dusseldorf, Germany. Wrapping machine. 2,157,949; May 9.

Berg, Max, Tulsa, Okla. Insect exterminator. 2,157,449; May 9.

Berg, Walter G. (See Irwin, Milton, assignor.)

Berghaus, Bernhard. (See Burkhardt, W., and Reinecke, assignors.)

Bernarde, Henry L. (See Young, D. A., and Bernarde.)

Bernarde, Henry L., Kearny, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Making measuring instrument pointers. 2,157,845; May 9.

Berndt, Arthur A., assignor to Electroline Corporation, Chicago, Ill. Tap connecter. 2,157,846; May 9.

Berndt, Fritz. (See Gericke, P. H., v. Baumbach, and Berndt.)

Bertrand, Lucien, assignor to Société Anonyme Francaise du Ferodo, Paris, France. Brake. 2,157,277; May 9.

Bessonneau, Maurice, Puteaux, France. Folding hood for automobile vehicles or the like. 2,157,783; May 9.

Best, Frank A., Windsor, Ontario, Canada. Cover for steering wheels. 2,157,950; May 9.

Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Brake for motor vehicles. 2,157,473; May 9.

Betz, William, Elizabeth, N. J. Stamp holder. 2,157,226; May 9.

Beyerle, Konrad, assignor to Anschütz & Co., G. m. b. H., Kiel-Neumühlen, Germany. System for the electrical transfer of rotary motion. 2,157,094; May 9.

Billington, John E., deceased, Crewe (M. E. Billington, executrix), and R. H. Scott, Enfield, assignors to Linotype and Machinery Limited, London, England. Hand composition of matrices for typographical slug-casting machines. 2,157,782; May 9.

Billington, Mary E., executrix. (See Billington, J. E., and Scott.)

Birks, Falconer M. (See Pexton, S., Hutchison, and Birks.)

Bishop & Babcock Manufacturing Company, The. (See Mayo, Edward L., assignor.)

Biskup, Leopold, assignor of one-half to J. Stasinski, Philadelphia, Pa. Ice cream dipper. 2,157,813; May 9.

Black, William A., Montclair, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Constant speed film drive. 2,157,393; May 9.

Blackmore, Robert B., Casper, Wyo. Automobile radio aerial. 2,157,278; May 9.

Blair, George, Berwyn, assignor to National Foam System, Inc., Philadelphia, Pa. Apparatus for handling foam chemicals. 2,157,520; May 9.

Blaw-Knox Company. (See McDonnell, Edward J., assignor.)

Blessing, Gregory W., Moorestown, and E. C. Guedon, Audubon, N. J., assignors to Radio Corporation of America. Sound reproducing apparatus. 2,157,158; May 9.

Bliley Electric Company. (See Wolfskill, John M., assignor.)

Bloomberg, Maxwell H., Brighton, Mass. Device for applying a coating to fabric. 2,157,521; May 9.

Bloss, Richard R., Beaumont, Tex., assignor to International Derrick & Equipment Company. Speed-up and speed-down for rotaries. 2,157,728; May 9.

Blumenfeld, Joseph, Paris, France. Hydrogenation of ketones. 2,158,040; May 9.

Blumlein, Alan D., Ealing, London, assignor to Electric & Musical Industries, Ltd., Hayes, Middlesex, England. Electric signal transmission line. 2,157,522; May 9.

Bock, Alfred C. O., and J. J. Ernau, Brooklyn, N. Y.; said Arnau assignor to said Bock. Disk charge-forming apparatus. 2,157,110; May 9.

Bölte, Karl, Karlshorst, Germany, assignor to General Electric Company. Polyphase transformer tap-changing mechanism. 2,157,814; May 9.

Bonilla, Charles F., assignor to Bates Laboratories, Inc., New York, N. Y. Rechargeable dry cell battery. 2,157,111; May 9.

Bonner, Douglas E., New York, N. Y. Machine for cleansing and treating. 2,157,112; May 9.

Borch, Niels S., Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y. Roasting materials rich in sulphur. 2,157,254; May 9.

Borden, Joseph H., assignor to Atlantic Elevator Company, Inc., Philadelphia, Pa. Elevator leveling system. 2,157,396; May 9.

Bosch, Robert, Gesellschaft mit beschränkter Haftung. (See Janssen, Johann F., assignor.)

Bouwers, Albert, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Method and installation for taking X-ray exposures. 2,157,474; May 9.

Bowes Seal Fast Corporation. (See Mullen, Thomas W., assignor.)

Bowles, Stanley D. (See Williams, Cliff A., assignor.)

Boyd, Donald A., Detroit, Mich. Seal. 2,157,995; May 9.

Boyer, Ralph V., Pittsfield, Mass., assignor to General Electric Company. Electrical protective device. 2,157,815; May 9.

Braddon, Frederick D., Babylon, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Constant period gyrocompass. 2,158,048; May 9.

Brandenburg, Charlotte, San Antonio, Tex. Electromagnetic vibrator. 2,157,279; May 9.

Brandert, Henry H. and L. J., assignors of twenty-five per cent to H. Truhlsen, Herman, Nebr. Tire alarm. 2,157,655; May 9.

Brandert, Luther J. (See Brandert, Henry H. and L. J.)

Brasty, Joseph. (See Morgenstern, D. M., and Brasty.)

Braun, Alfred, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologen-Mulheim, Germany. Air space insulated signaling cable. 2,157,475; May 9.

Braus, Karl. (See Baehr, H., and Braus.)

Brewer, Charles A., Noroton Heights, Conn., assignor of one-half to P. J. Kury, Arverne, N. Y. Control system for motor vehicles. 2,157,588; May 9.

Brickman, Alan E., and G. A. Gleason, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Rope coupling. 2,157,227; May 9.

Briggs, George L. (See Robertson, D. D., and Briggs.)

Briggs, George L., Oneida, N. Y. Skid chain applying mechanism. 2,157,687; May 9.

Briggs Manufacturing Company. (See Coordes, Harry G., assignor.)

Briggs Manufacturing Company. (See Zablocki, Eugene C., assignor.)

Briggs & Stratton Corporation. (See Fitz Gerald, John W., assignor.)

Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)

Brink, Mary E., Grand Island, Nebr. Display apparatus. 2,157,397; May 9.

Brite, Frontice H., Medford, Mass., assignor to Agar Manufacturing Corporation, Whippany, N. J. Taping machine. 2,157,735; May 9.

British Cotton Industry Research Association, The. (See Williams, T. C., and Shorter, assignors.)

Brodesser, Roman A., Chevy Chase, Md. Dispensing container. 2,157,476; May 9.

Brous, Samuel L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Treating polyvinyl halides. 2,157,997; May 9.

Brown, Clarence H. (See Dooley, R. R., and Brown.)

Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Antenna system. 2,157,159; May 9.

Brown, Thomas E., Chicago, Ill. Belt shifting mechanism for a lathe. 2,157,398; May 9.

Brown, William A. (See Holden, A., and Brown.)

Brownstein, Benjamin, Ellwood City, Pa. Universal flexible and safety coupling. 2,157,996; May 9.

Brunk, Harold J., Chicago, Ill., assignor to The C. F. Pease Company. Combined arc lamp and incandescent lamp. 2,158,026; May 9.

Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Detergent composition containing buffers. 2,157,320; May 9.

Buccicone, Dario, and R. A. Fenoglio, Gary, Ind. Automatic catcher for tin plate. 2,157,228; May 9.

Buchanan, William G. (See McEwan, M. H., and Buchanan.)

Buck, Foster, Fargo, N. Dak. Electric fence controller. 2,157,160; May 9.

Bucknam, J. H., Cranford, N. J., assignor to The Linde Air Products Company, New York, N. Y. Method and apparatus for desurfacing ferrous metal bodies. 2,157,095; May 9.

Budd, Edw. G., Manufacturing Company. (See Eksergian, Carolus L., assignor.)

Bulford, Murray N., Clearwater, S. C., assignor to United Merchants & Manufacturers, Inc., New York, N. Y. Textile printing machine. 2,158,027; May 9.

Bullen, Jacob T. and M., Shreveport, La., assignors to said M. Bullen. Game. 2,157,589; May 9.

Bullen, Margaret. (See Bullen, Jacob T. and M.)

Bullock, Giles E., Rochester, N. Y. Making tank heads and closure members therefor. 2,157,978; May 9.

Bulow, Otto, St. Albans, N. Y. Fishhook connector and spreader. 2,157,477; May 9.

Bumpass, Roy P., Richmond, Va. Friction sealing receptacle. 2,157,255; May 9.

Burchfield, Paul E., Lansdowne, Pa., assignor to The Harshaw Chemical Company, Elyria, Ohio. Lubricating grease. 2,157,647; May 9.

Burke, James P., Knoxville, Tenn. Spring. 2,158,028; May 9.

Burke, James P., Knoxville, Tenn., assignor to F. L. McLaughlin, Detroit, Mich. Wire connector. 2,158,029; May 9.

Burkhardt, Wilhelm. (See Reinecke, R., and Burkhardt.)

Burkhardt, Wilhelm, Berlin-Grunewald, and R. Reinecke, assignors to B. Berghaus, Berlin-Lankwitz, Germany. Coating articles by vaporized coating materials. 2,157,478; May 9.

Burmeister, Hermann. (See Auerbach, R., and Burmeister.)

Burnelelt, Willy. (See Mieg, W., Wieners, and Burnelelt.)

Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Coupling device. 2,157,523; May 9.

Buschman, Henry W., Spearman, Tex. Well drilling cable control. 2,157,951; May 9.

Bush, Vannevar, Belmont, Mass., assignor, by mesne assignments, to Research Corporation, New York, N. Y. Apparatus for compressing gases. 2,157,229; May 9.

Bussmeyer, Hans, Dessau, Germany. Method of and apparatus for treating cement raw material and similar substances. 2,157,321; May 9.

Butman, Helen L., Kalamazoo, Mich. Dressing bag. 2,157,280; May 9.

Byrkett, Harry E., Indianapolis, Ind., and C. H. Dial, Decatur, assignors to General Outdoor Advertising Company, Inc., Chicago, Ill. Open-faced billboard. 2,157,931; May 9.

Cady, George H. (See Muskat, I. E., and Cady.)

Cady, George H., Wadsworth, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Preparation of chlorine monoxide. 2,157,524; May 9.

Cady, George H., Wadsworth, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Preparation of chlorine monoxide. 2,157,525; May 9.

Calcaterra, Joseph, Thornwood, N. Y. Inking mechanism for printing presses and the like. 2,157,256; May 9.

Calco Chemical Company, The. (See Park, Robert H., assignor.)

Callaway, Coleman E., Wichita Falls, Tex. Trailer hitch. 2,157,998; May 9.

Cameron, Don O., Garfield Heights, Ohio. Refrigerating apparatus. 2,157,590; May 9.

Cantrell, Troy L., and J. G. Peters, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Lubricating oil compositions, inhibitors therefor, and manufacturing the same. 2,157,479; May 9.

Carbide and Carbon Chemicals Corporation. (See Davidson, Joseph G., assignor.)

Carbide and Carbon Chemicals Corporation. (See Vaughn, Thomas H., assignor.)

Carey, Philip, Manufacturing Company, The. (See Grelder, H. W., and Marc, assignors.)

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Separable fastener. 2,157,381; May 9.

Carlson, Herman B., assignor to Sargent & Company, New Haven, Conn. Juice-expressing device. 2,157,161; May 9.

Carmack, Arthur F., Clarksville, assignor of one-half to W. A. Hendry, Waterloo, Iowa. Artificial arm. 2,157,747; May 9.

Carmody, Michael B., Shreveport, La. Collar. 2,157,591; May 9.

Carosi, Samuel L., Martins Ferry, Ohio. Device for sharpening cutlery. 2,157,816; May 9.

Carothers, Wallace H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stocking and producing same. 2,157,116; May 9.

Carswell, Firman L. (See Payne, Carman G., assignor.)

Carswell, Thomas S., Glendale, assignor to Monsanto Chemical Company, St. Louis, Mo. Preservation of fermentable materials. 2,157,113; May 9.

Case, Lynn B. (See Warner, S. W., and Case.)

Cascio, S. Stanley, Brooklyn, N. Y. Form for concrete and the like walls and method. 2,157,688; May 9.

Casler, Roger H., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Gear shifting mechanism. 2,157,592; May 9.

Cataline, Benton. (See Tenney, P. L., and Cataline.)

Celanese Corporation of America. (See Daly, A. J., and Lowe, assignors.)

Celanese Corporation of America. (See Seymour, George W., assignor.)

Certain-Teed Products Corporation. (See Walton, Alfred B., assignor.)

Chaney, Newcomb K., Cleveland Heights, and E. F. Kiefer, Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Sealing surface member. 2,157,526; May 9.

Chapman, Penrose E., St. Louis, Mo. Despooler. 2,157,847; May 9.

Charavay, Frederick, assignor of one-half to Hartzell Industries, Inc., Piqua, Ohio. Ventilating fan. 2,157,999; May 9.

Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Work table. 2,157,648; May 9.

Chemical Works formerly Sandoz. (See Ller, Heinrich, assignor.)

Chicago Metal Hose Corporation. (See Fentress, J., and Dreyer, assignors.)

Choice, Frank C. (See Elliott, H. E., and Choice.)

Christen, Fritz, Zurich-Altstetten, Switzerland. Magnesium alloy. 2,157,322; May 9.

Christy, George C., assignor to C. L. Schmidt, Chicago, Ill. Bolster spring unit. 2,158,000; May 9.

Church, Walter L., Houston, assignor of one-half to J. G. Gratehouse, Harris County, Tex. Apparatus for bringing a well into production. 2,157,729; May 9.

Cianchi, Alfredo, London, England. Electric switch. 2,157,114; May 9.

Cidissen, John, New York, N. Y. Fountain pen eraser attachment. 2,157,450; May 9.

Cincinnati Grinders Incorporated. (See Wortendyke, Raymond D., assignor.)

Clark Equipment Company. (See Lapsley, Robert, assignor.)

Clark Equipment Company. (See Spatta, George, assignor.)

Clark, Paul M., et al. (See McElwain, William H., assignor.)

Clark, Percy L., Jr., Chicago, Ill. Pessary. 2,157,689; May 9.

Clarke, Carole A., Chatham, N. J., and J. A. Malmuth, Brooklyn, assignors to Dictograph Products Company, Inc., New York, N. Y. Telephone jack box for chair arms. 2,157,527; May 9.

Clarkson, Charles F. (See Gessler, A. E., Guiteras, and Clarkson.)

Clayton Manufacturing Company. (See Wheeler, Freeman Y., assignor.)

Cleveland Automatic Machine Company, The. (See Jelinek, A. F., and Gross, assignors.)

Cleveland Heater Company, The. (See Bell, William D., assignor.)

Clifford, Albert M., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Vulcanization of rubber. 2,158,019; May 9.

Clough, Newsome H., London, England, assignor to Radio Corporation of America. Control apparatus for radio-beacon systems. 2,157,690; May 9.

Coanda, Henri, Clichy, France, assignor to Société Anonyme d'Etudes des Brevets et Procédés Coanda-Société Coanda. Propelling device. 2,157,281; May 9.

Cohen, Harry. (See Weiskopf, Edwin C., assignor.)

Cohen, Jacob, assignor of fifty per cent to A. Mosen, New York, N. Y. Garment. 2,157,784; May 9.

Cohn, David. (See De Cesare, M., and Cohn.)

Cohn, Norman, New Rochelle, N. Y. Sock. 2,157,399; May 9.

Cold Metal Process Company, The. (See McBain, William C., assignor.)

Cole, Lorne A., assignor to Waterous Limited, Brantford, Ontario, Canada. Magnetic valve. 2,157,480; May 9.

Colleran, Thomas J., assignor to Hunter Sash Company, Inc., Flushing, N. Y. Panel. 2,157,162; May 9.

Columbus Sucker Rod Company, The. (See Leibensperger, C. I., and Thorpe, assignors.)

Combustion Engineering Company. (See Dyer, H. T., and Barnes, assignors.)

Combustion Engineering Company. (See Smith, Alfred R., assignor.)

Commercial Solvents Corporation. (See Vanderbilt, Byron M., assignor.)

Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Réunies, Etablissements Kuhlmann. (See Petitcolas, Pierre, assignor.)

Compo Shoe Machinery Corporation. (See Gorman, Henry B., assignor.)

Conklin, Clyde L. (See Sarsfield, M. W., and Conklin.)

Conklin, John T., Binghamton, assignor to Endicott Johnson Corporation, Endicott, N. Y. Device for drawing strips through perforated materials. 2,157,593; May 9.

Cook, Elmer W. (See Major, R. T., and Cook.)

Cooper, Hugh S., Cleveland Heights, assignor to Cooper Products, Inc., Cleveland, Ohio. Chromizing. 2,157,594; May 9.

Cooper, Hugh S., and C. H. Van Dusen, Jr., Cleveland Heights, Ohio, assignors, by mesne assignments, to Cooper-Wilford Beryllium, Ltd. Making alloys. 2,157,979; May 9.

Cooper, Morris, Chicago, Ill. Display apparatus. 2,157,400; May 9.

Cooper Products, Inc. (See Cooper, Hugh S., assignor.)

Cooper-Wilford Beryllium, Ltd. (See Cooper, H. S., and Van Dusen, assignors.)

Coordes, Harry G., assignor to Briggs Manufacturing Company, Detroit, Mich. Sink. 2,157,785; May 9.

Coordes, Harry G., assignor to Briggs Manufacturing Company, Detroit, Mich. Sink and table assembly. 2,157,786; May 9.

Cormier, Frank L., East Braintree, and H. L. Larson, East Weymouth, Mass. Safety device for boilers. 2,157,163; May 9.

Cornell, Edward S., Jr., Larchmont, assignor to American Radiator Company, New York, N. Y. Muffler. 2,157,115; May 9.

Cothern, William R., Scottsbluff, Nebr. Utility tool. 2,157,481; May 9.

Cotterman, Frederick W., assignor of one-half to B. D. Apple, Dayton, Ohio. Hydromechanical power transmission mechanism. 2,157,230; May 9.

Coultas, Wilbur J., assignor to Deere & Company, Moline, Ill. Tractor mounted implement. 2,157,323; May 9.

Coultas, Wilbur J., and N. F. Andrews, assignors to Deere & Company, Moline, Ill. Wheel. 2,157,691; May 9.

Coventry, Joseph F., assignor to Joal Manufacturing Corporation, Toledo, Ohio. Damper construction. 2,157,382; May 9.

Covert, James D., Larchmont, N. Y. Fireplace. 2,158,041; May 9.

Crabtree, Duane, Springfield, assignor to Western Pellet Machine Corporation, Eugene, Oreg. Machine for forming compressed feeds and similar products. 2,157,528; May 9.

Crago, Harry R., Caldwell, N. J., assignor to General Electric Company. Zone heating system. 2,157,817; May 9.

Craver, Clyde R., Denison, Tex. Universal connection. 2,157,401; May 9.

Creveling, John L., near Tucson, Ariz. Lubricating means. 2,157,402; May 9.

Creveling, John L., near Tucson, Ariz. Lubricating means. 2,157,403; May 9.

Crocker, Thomas F., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,157,848; May 9.

Crop Protection Institute. (See Nikitin, A. A., and Adams.)

Crossingham, James H., assignor to Mount Airy Knitting Company, Mount Airy, N. C. Knit undergarment with elastic neck band. 2,157,482; May 9.

Crout, Prescott D., Boston, assignor to Raytheon Manufacturing Company, Newton, Mass. Adjustable magnetic apparatus. 2,157,324; May 9.

Crum, Dana S., Wernersville, Pa. Container and carrying case. 2,157,257; May 9.

Cudney, John F., Buffalo, N. Y. Thermionic vacuum tube. 2,157,595; May 9.

Currier, Lorenzo G., Winchester, Mass. Ski. 2,157,325; May 9.

Curry, Oliver B., El Dorado, Kans., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fuse. 2,157,198; May 9.

Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Motor. 2,157,120; May 9.

Cuttino, William H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Prevention of inductive interference. 2,157,886; May 9.

Cuveilliez, Francois, assignor to Société Générale Métallurgique de Hoboken, Hoboken, near Antwerp, Belgium. Lead alloy. 2,157,383; May 9.

Dahloff, Oscar. (See Pitar, A., and Dahloff.)

Dällenbach, Walter, Berlin-Charlottenburg, assignor to Julius Pintsch Kommanditgesellschaft, Berlin, Germany. Thermionic valve. 2,157,952; May 9.

Daly, Arthur J., and W. G. Lowe, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of esters of phosphoric acid. 2,157,164; May 9.

Danielsson, Yngve A. F., assignor to Aktiebolaget Westerlin & Co., Goteborg, Sweden. Sheet feeding apparatus. 2,157,849; May 9.

Darby, Ernest R., L. A. Barera, and P. J. Potter, assignors to Federal-Mogul Corporation, Detroit, Mich. Bearing alloy. 2,157,121; May 9.

Darby, J. F. (See Porter, Albert N., assignor.)

Daubmeyer, Dewey C., Detroit, Mich. Printing machine. 2,157,980; May 9.

Davidson, Joseph G., Scarsdale, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Photographic film base. 2,157,384; May 9.

Davies, Archibald D., Pittsburgh, Pa. Cinder pot. 2,157,748; May 9.

Davis, Harold G., Denver, Colo. Air and water service station. 2,157,887; May 9.

Davis, James A. (See Livingston, Callard, assignor.)

Davis, James H., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Making porous metal elements. 2,157,596; May 9.

Davis, Leon N. (See Miller, M., and Davis.)

Dawson, John W. (See Gulliksen, F. H., and Dawson.)

Dawson, John W., East McKeesport, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,157,888; May 9.

Dazey, Harry L., Clayton, Mo. Photographic contact printing apparatus. 2,158,001; May 9.

Deahl, Kenneth J., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa. Annealing box. 2,157,231; May 9.

Decatur Garment Company. (See Robertson, E. C., and Hamman, assignors.)

De Cesare, Matteo, Newark, N. J., and D. Cohn, Brooklyn, N. Y., assignors to Eyedoll Corporation, Jersey City, N. J. Doll construction. 2,157,165; May 9.

Decker, Frank A., New York, N. Y. Mechanical toy. 2,157,889; May 9.

Deere & Company. (See Coultas, Wilbur J., assignor.)

Deere & Company. (See Coultas, W. J., and Andrews, assignors.)

Dehn, Joseph W., Great Neck, and O. Myers, Mount Vernon, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device. 2,157,890; May 9.

De Javannes, Francis J., New York, N. Y. Dispenser. 2,157,282; May 9.

De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Shutter operating mechanism for registers of liquid dispensing apparatus. 2,157,258; May 9.

Delaval-Crow, Thomas C., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Variable speed transmission. 2,157,259; May 9.

De Leval Separator Company, The. (See Ashworth, Daniel L., assignor.)

De Long, Dwight M., Upper Arlington, assignor of one-half to T. T. Haack, Columbus, Ohio. Insect destroyer. 2,157,953; May 9.

Deremer, Floyd E. (See Visser, G. A., Deremer, and Sprott.)

Dessévre, Jean, L. Durepaire, and B. Quanquin, Paris, France. Preparation of potassium nitrate. 2,157,260; May 9.

Detroit Macoid Corporation. (See Haines, John R., assignor.)

Deutsche Edelstahlwerke Aktiengesellschaft. (See Riedrich, Gerhard, assignor.)

Dial, Curtis H. (See Byrkett, H. E., and Dial.)

Dictograph Products Company. (See Clarke, C. A., and Malmuth, assignors.)

Dimmick, Glenn L., Erlton, N. J., assignor to Radio Corporation of America. Optical system. 2,157,166; May 9.

Disch, John E., assignor to Daniel Green Company, Dolgeville, N. Y. Shoe. 2,157,818; May 9.

Ditto, Incorporated. (See Marcher, Alfred, assignor.)

Doba, Stephen, Jr., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmission system. 2,157,326; May 9.

Doble, Ralph N., Hingham, Mass. Tea bag, coffee bag, and the like. 2,157,656; May 9.

Dodge, George A., C. L. Meinholdt, and H. H. Mack, Topeka, Kans.; said Dodge and said Meinholdt assignors to said Mack. Turntable. 2,157,404; May 9.

Doe, Thomas B., New York, N. Y., and E. L. Rose, assignors to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,157,692; May 9.

Doering, Charles, Chicago, Ill. Advertising device. 2,157,199; May 9.

Dole Valve Company, The. (See Tweed, Frederick H., assignor.)

Dooley, Robert R., and C. H. Brown, South Pasadena, Calif., assignors to Goodman Manufacturing Company, Chicago, Ill. Shoveling machine. 2,157,736; May 9.

Dornvan Corporation, The. (See Van Dorn, Herbert E., assignor.)

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connecting means. 2,158,002; May 9.

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection means. 2,158,003; May 9.

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection means. 2,158,004; May 9.

Drake, Harrington E. (See Lamica, Clement G., assignor.)

Dresner, S., & Son, Inc. (See Plotkin, Oscar H., assignor.)

Drewell, Paul, Berlin-Reinckendorf, and E. Steudel, Berlin-Dahlem, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Relaxation oscillator. 2,157,529; May 9.

Dreyer, Albert. (See Fentress, J., and Dreyer.)

Dreyfus, Camille, New York, N. Y. Articles of cellulose esters. 2,157,167; May 9.

Drummond, Robert S., Detroit, Mich. Machine for cutting gears. 2,157,981; May 9.

Dummer, Edward J., and A. Gay, assignors to Multipost Co., Rochester, N. Y. Envelope opening machine. 2,157,232; May 9.

Du Mont, Allen B., Laboratories, Inc. (See Du Mont, Allen B., assignor.)

Du Mont, Allen B., Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Method and system for television communication. 2,157,749; May 9.

Dunagin, Raymond R., Hattiesburg, Miss. Stump splitter. 2,157,483; May 9.

Dunmore, Francis W., Washington, D. C., assignor to the Government of the United States, represented by the Secretary of Commerce. Warning system for indicating the proximity of aircraft. 2,157,122; May 9.

Dunn, John C., Providence, R. I. Closure device for a tubular member adapted for displaying advertising matter. 2,157,750; May 9.

Duplex Printing Press Company, The. (See Behrens, Herbert C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Carothers, Wallace H., assignor.)

Du Pont, E. I., de Nemours & Company. (See Ellsworth, D. C., and Hahn, assignors.)

Du Pont, E. I., de Nemours & Company. (See Heckert, Winfield W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hucks, Robert T., assignor.)

Du Pont, E. I., de Nemours & Company. (See Kline, Emil, assignor.)

Du Pont, E. I., de Nemours & Company. (See Lazier, Wilbur A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Lubs, H. A., and Johnson, assignors.)

Du Pont, E. I., de Nemours & Company. (See Miles, John B., Jr., assignor.)

Dupree, Samuel F., Jr., Shaker Heights, Ohio. Sealing shafts. 2,157,597; May 9.

Durametallic Corporation. (See Wiessner, Christopher, assignor.)

Durepaire, Louis. (See Dessévre, J., Durepaire, and Quanquin.)

Durham, Hobart N., Manhasset, N. Y., assignor to The Goss Printing Press Company, Chicago, Ill. Matrix molding machine. 2,157,327; May 9.

Durham, Hobart N., Munsey Park, Long Island, N. Y., assignor to Vaco Products, Inc., Jersey City, N. J. Fluid-pressure-operated gear shifter. 2,157,328; May 9.

Duvall, Marie D., et al. (See Nash, William M., assignor.)

Dyer, Horace T., Coscob, Conn., and J. A. Barnes, Chappaqua, assignors to Combustion Engineering Company, Inc., New York, N. Y. Marine boiler. 2,157,751; May 9.

Dyson, Ralph S., Indianapolis, Ind., assignor to Link-Belt Company. Endless carrier or conveyer chain. 2,157,283; May 9.

Eaton, Elton, Beloit, Wis. Vehicle bumper. 2,157,657; May 9.

Eaton Manufacturing Company. (See Jardine, Robert, assignor.)

Eaton Manufacturing Company. (See Shaw, Clarence W., assignor.)

Eckert, Frederick, New York, N. Y. Bait float. 2,157,819; May 9.

Eckley, John M., et al. (See McElwain, William H., assignor.)

Edison General Electric Appliance Company. (See McCormick, Francis H., assignor.)

Edison General Electric Appliance Company. (See Walker, F. A., and Stoddard, assignors.)

Edwards, O. M., Company. (See Nelson, Russell B., assignor.)

Egersdörfer, Fritz, Berlin, Germany. Fuel feeding device for internal combustion engines. 2,157,284; May 9.

Egersdörfer, Fritz, Berlin, Germany. Fuel feeding device for internal combustion engines. 2,157,285; May 9.

Eldco, Inc. (See Hokanson, Martin, assignor.)

Eisenman, Louis, Brooklyn, N. Y. Fender sight. 2,158,005; May 9.

Eksergian, Carolus L., Detroit, Mich., assignor to Edw. G. Budd Manufacturing Company, Philadelphia, Pa. Combined body and chassis construction. 2,157,649; May 9.

Electric & Musical Industries, Ltd. (See Blumlein, Alan D., assignor.)

Electrical Engineers Equipment Company. (See Hoye, Peder B., assignor.)

Electrical Research Products, Inc. (See Albersheim, W. J., and Sette, assignors.)

Electro Metallurgical Company. (See Priestley, William J., assignor.)

Electroline Corporation. (See Berndt, Arthur A., assignor.)

Electrolux Corporation. (See Ernolf, Carl O., assignor.)

Elliott, Harold E., and F. C. Choice, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 2,157,200; May 9.

Ellis, Delbert. (See Armstrong, G. C., and Ellis.)

Ellis, William D., III, Atlanta, Ga. Ironer roll padding. 2,158,006; May 9.

Ellis, William D., III, Atlanta, Ga., and C. B. Haydon, Cincinnati, Ohio. Ironer belting. 2,158,007; May 9.

Ellsworth, Deane C., deceased, Wilmington, Del. (J. F. Haskins, administrator), and F. C. Hahn, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing low substituted alkyl celluloses. 2,157,530; May 9.

Emery, Phil S. (See Goodwin, Malcolm L., assignor.)

Emmert, Kenneth L. (See Hensel, F. R., and Emmert.)

Emmey, Charles, New York, N. Y. Apparatus for coating textile material and the like. 2,157,286; May 9.

Endicott Johnson Corporation. (See Conklin, John T., assignor.)

Engel, Karl, Swampscott, and C. S. Kinney, Middleton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe bottom pressing machine. 2,157,123; May 9.

Enterprise Manufacturing Company, The. (See Pflueger, Charles T., assignor.)

Ernau, Jacob J. (See Bock, Alfred C. O.)

Ernolf, Carl O., St. Essingen, Sweden, assignor to Electrolux Corporation. Vacuum cleaner. 2,157,693; May 9.

Evans Case Company. (See MacDonald, E. R., and Irelan, assignors.)

Ex-Cell-O Corporation. (See Keel, Adolf, assignor.)

Eyedoll Corporation. (See De Cesare, M., and Cohn, assignors.)

Factor, Max, & Co. (See Jewel, P. W., and Pratt, assignors.)

Fafnir Bearing Company, The. (See Potter, Howell, assignor.)

Fafnir Bearing Company, The. (See Smith, John W., assignor.)

Fairchild, E. E., Corporation. (See Gould, Edgar L., assignor.)

Farkas, Joseph. (See Reisinger, G., and Farkas.)

Farrell, Joseph E., assignor to Automotive Devices Corporation, Washington, D. C. Electromagnetic switch device. 2,157,787; May 9.

Farmer, Arthur J., deceased, Chicago, Ill.; M. J. O'Brien administrator. Packet for safety razor blades. 2,158,049; May 9.

Federal-Mogul Corporation. (See Darby, E. R., Barera, and Potter, assignors.)

Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Braun, Alfred, assignor.)

Fenoglio, Rudolph A. (See Buccicone, D., and Fenoglio.)

Fentress, James, Hubbard Woods, Ill., and A. Dreyer, Lucern, Switzerland, assignors to Chicago Metal Hose Corporation, Maywood, Ill. Apparatus and method for corrugating metal tubing. 2,157,598; May 9.

Fergueson, Arthur P., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Hand brake lever. 2,157,850; May 9.

Ferguson, Malcolm P. (See McGrath, W. L., Ferguson, Whitney, and Wertz.)
Ferris, Seymour W., assignor to The Atlantic Refining Company, Philadelphia, Pa. Hydrocarbon oil extraction. 2,157,821; May 9.
Fildes, Frederick K., Altoona, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Converting road-rail vehicles from one use to the other. 2,157,650; May 9.
Fildes, Frederick K., Altoona, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Road-rail vehicle. 2,157,651; May 9.
Fillo, Francis B., Webster Groves, Mo., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system. 2,157,329; May 9.
Fine, Philip, Baltimore, Md. Visual song interpreter. 2,157,168; May 9.
Finnegan, George B., Jr. (See Schmidt, Grayson, assignor.)
Firestone Tire & Rubber Company, The. (See Allen, R. W., and Te Grotenhuis, assignors.)
Firestone Tire & Rubber Company, The. (See Bemis, Henry P., assignor.)
Firestone Tire & Rubber Company, The. (See Greenup, Harold W., assignor.)
Fischer, Albert F., assignor to W. F. Fischer, Philadelphia, Pa. Oil grooving machine. 2,157,484; May 9.
Fischer, Hans, Yonkers, assignor to Lanova Corporation, New York, N. Y. Injection engine. 2,157,658; May 9.
Fischer, Hans, Yonkers, assignor to Lanova Corporation, Long Island City, N. Y. Injection engine. 2,157,659; May 9.
Fischer, Otto, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photoelectric exposure meter. 2,157,660; May 9.
Fischer, William F. (See Fischer, Albert F., assignor.)
Fisher, Ernest F., Springfield, Ill. Comfort cooling unit. 2,157,531; May 9.
Fisher, Harold J., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission level control. 2,157,694; May 9.
Fitz Gerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Generator output regulator system. 2,157,661; May 9.
Fitzsimmons, John T., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Capacity control for ignition systems. 2,157,599; May 9.
Fleck, John F., Latrobe, Pa., assignor to American Locomotive Company, New York, N. Y. Bar for helical springs. 2,157,820; May 9.
Fleckenstein, Frederick S., Syracuse, assignor to The Barrett Company, New York, N. Y. Paving process. 2,157,330; May 9.
Fleischer, Paul W. (See Webber, G. R., Fleischer, and von Hofe.)
Foote-Burt Company, The. (See Knox, William R., assignor.)
Ford, Florence M., assignor to Joseph Bancroft & Sons Co., Wilmington, Del. Finishing lightweight fabrics. 2,157,600; May 9.
Forkner, J. C., Inc. (See Forkner, John H., assignor.)
Forkner, John H., Fresno, Calif., assignor to J. C. Forkner, Inc. Food product and making it. 2,157,485; May 9.
Foster, Dudley E., Orange, N. J., assignor to Radio Corporation of America. Antenna system for vehicles 2,157,532; May 9.
Foster, Ruth, administratrix. (See Foster, William H., assignor.)
Foster, William H., deceased, Delmar, N. Y.; R. Foster, administratrix. Heat bag. 2,157,169; May 9.
Foster, William J., Flint, assignor to General Motors Corporation, Detroit, Mich. Air cleaner. 2,158,042; May 9.
Fraim, Freeman W. (See Little, R., and Fraim.)
Franklin Rayon Corporation. (See Little, R., and Fraim, assignors.)
Frederick Post Company, The. (See Hinman, Walker M., assignor.)
Freistadter, Jacob, assignor to Waltham Watch Company, Waltham, Mass. Motor lubricating system. 2,157,752; May 9.
French, Harriet H., Newport, R. I. Clothes drying frame. 2,157,822; May 9.
Frey, Elmer E., assignor to Kittle Manufacturing Co., Los Angeles, Calif. Fluid flow control device. 2,157,405; May 9.
Frey, Elmer E., assignor to Kittle Manufacturing Co., Los Angeles, Calif. Fluid flow control device. 2,157,406; May 9.
Freysinger, John B., assignor to North and Judd Manufacturing Company, New Britain, Conn. Hasp for luggage locks. 2,157,730; May 9.
Frigidaire Corporation. (See Heath, Delos P., assignor.)
Fritz, William H., assignor to Globe-Union Inc., Milwaukee, Wis. Shaft construction. 2,157,662; May 9.
Fröhmer, Claus, Berlin-Siemensstadt, Germany, assignor General Electric Company. Protective arrangement for electric valve converting systems. 2,157,851; May 9.
Frost, George S., deceased, Baldwin, N. Y.; T. B. Frost, executrix of estate. Package. 2,157,407; May 9.
Frost, Theodora B., executrix. (See Frost, George S.)
Fulton, William E., York, Pa. Washing machine. 2,157,695; May 9.
Furbush, Frank L., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Counterflow system for wool scouring machines. 2,157,287; May 9.
Gammeter, John R., assignor of one-half to S. G. Gammeter, Akron, Ohio. Milk bottle cap. 2,157,601; May 9.
Gammeter, Susan G. (See Gammeter, John R., assignor.)
Gantt, Jacob F., Rock Hill, S. C. Battery carrier and lifter. 2,157,753; May 9.
Gas Light & Coke Company, The. (See Pexton, S., Hutchison, and Birks, assignors.)
Gasolitor Co. (See Holden, A., and Brown, assignors.)
Gauss, Eugen, Pforzheim, Germany. Attaching hook for watch wristlets. 2,157,288; May 9.
Gay, Azel. (See Dummer, E. J., and Gay.)
Geib, Robert U., Jr., Pittsburgh, Pa. Metallic girder. 2,157,223; May 9.
Geiger, Max, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Oscillator. 2,157,533; May 9.
Geisslinger, Robert, and K. R. Greiner, Vienna, Austria. Internal combustion engine with adjustable pressure. 2,157,486; May 9.
General Aniline Works, Inc. (See Mieg, W., Wieners, and Burneleit, assignors.)
General Aniline Works, Inc. (See Muth, Friedrich, assignor.)
General Aniline Works, Inc. (See Winkeler, H., and Petz, assignors.)
General Aniline Works, Inc. (See Zerweck, W., and Kunze, assignors.)
General Dyestuff Corporation. (See Lederle, Ekbert, assignor.)
General Electric Company. (See Auerbach, R., and Burmeister, assignors.)
General Electric Company. (See Bailey, Richard W., assignor.)
General Electric Company. (See Bany, Herman, assignor.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See Bölte, Karl, assignor.)
General Electric Company. (See Boyer, Ralph V., assignor.)
General Electric Company. (See Crago, Harry R., assignor.)
General Electric Company. (See Fröhmer, Claus, assignor.)
General Electric Company. (See Herskind, Carl C., assignor.)
General Electric Company. (See Hubel, Eugen, assignor.)
General Electric Company. (See Kliemann, Erich, assignor.)
General Electric Company. (See Lohausen, Karl A., assignor.)
General Electric Company. (See McLenegan, David W., assignor.)
General Electric Company. (See Merriam, Ezra B., assignor.)
General Electric Company. (See Nowak, P., Tobis, and Hofmeier, assignors.)
General Electric Company. (See Rankin, William K., assignor.)
General Electric Company. (See Schmidt, August, Jr., assignor.)
General Electric Company. (See Suits, Chauncey G., assignor.)
General Electric Company. (See Tröger, Richard, assignor.)
General Electric Company. (See Warner, Donald F., assignor.)
General Electric Company. (See Whiting, M. A., and McLenegan, assignors.)
General Electric Company. (See Worstell, Robert E., assignor.)
General Fire Extinguisher Company. (See Williams, James H., assignor.)
General Motors Corporation. (See Davis, James H., assignor.)
General Motors Corporation. (See Delaval-Crow, Thomas C., assignor.)
General Motors Corporation. (See Fitzsimmons, John T., assignor.)
General Motors Corporation. (See Foster, William J., assignor.)
General Motors Corporation. (See Gould, Richard E., assignor.)
General Motors Corporation. (See Hunt, John H., assignor.)
General Motors Corporation. (See Madlé, Alain, assignor.)
General Motors Corporation. (See Swarthout, Stanley H., assignor.)
General Motors Corporation. (See Tenney, P. L., and Cataline, assignors.)
General Outdoor Advertising Company. (See Byrkett, H. E., and Dial, assignors.)
General Railway Signal Company. (See Phinney, Robert M., assignor.)
George, Harry S., Massapequa, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Blowpipe. 2,157,331; May 9.
George, Roscoe H., H. J. Heim, and J. W. Hammond, West Lafayette, Ind., assignor to Radio Corporation of America. Power supply system. 2,157,534; May 9.

Gerdin, Karl G. (See McCoy, J. J., and Gerdin.)
Gericke, Paul H., H. H. v. Baumbach, and F. Berndt, Leuna, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Decomposition of substances containing tungsten sulphide. 2,157,332; May 9.
Gessler, Albert E., Ardsley-on-Hudson, and A. F. Guiteras, New York, N. Y., and C. F. Clarkson, Philadelphia, Pa., assignors to The Interchemical Corporation. Printing. 2,157,385; May 9.
Gibson Patent Containers, Ltd. (See Page, John E., assignor.)
Giebink, John H., Waupun, Wis. Shingling gauge holder. 2,157,663; May 9.
Gilbert, A. C., Company, The. (See Anketell, Edward N., assignor.)
Gilbert & Parker Manufacturing Company. (See De Lancey, Warren H., assignor.)
Gilmore, Harry R., Steubenville, Ohio. Safety crossing. 2,157,602; May 9.
Gisholt Machine Company. (See Godfriaux, Louis E., assignor.)
Glaser, Carl F., Chicago, Ill. Tile and setting the same. 2,157,201; May 9.
Gleason, George A. (See Brickman, A. E., and Gleason.)
Globe Steel Tubes Co. (See Ihrig, Harry K., assignor.)
Globe-Union Inc. (See Fritz, William H., assignor.)
Glougie, Bert S., assignor to Baldwin Rubber Company, Pontiac, Mich. Seal. 2,157,983; May 9.
Glover, Eloise H., Sanford, N. C. Maternity skirt. 2,157,932; May 9.
Godfrey, Edward C., Detroit, Mich. Collapsible tubular container. 2,157,891; May 9.
Godfriaux, Louis E., assignor to Gisholt Machine Company, Madison, Wis. Transmission and control. 2,157,892; May 9.
Godwin, Harry. (See Streckfus, J., Schmidt, and Godwin.)
Goodman Manufacturing Company. (See Dooley, R. R., and Brown, assignors.)
Goodrich, B. F., Company, The. (See Brous, Samuel L., assignor.)
Goodwin, Malcolm L., assignor of fifty-two per cent to P. S. Emery, Culver City, Calif. Electrical switch. 2,157,535; May 9.
Gorman, Henry B., Lynchburg, Va., assignor to Compo Shoe Machinery Corporation, New York, N. Y. Manufacture of footwear. 2,157,982; May 9.
Goss Printing Press Company, The. (See Durham, Hobart N., assignor.)
Gould, Edgar L., assignor to E. E. Fairchild Corporation, Rochester, N. Y. Flower display box. 2,157,954; May 9.
Gould, Richard E., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,157,754; May 9.
Government of the United States, represented by the Secretary of Commerce, The. (See Dunmore, Francis W., assignor.)
Graham, Duncan E., Denver, Colo. Scrip cover. 2,157,603; May 9.
Graham-Paige Motors Corporation. (See Kishline, Floyd F., assignor.)
Grant, Robert L., Jr., Atlanta, Ga. Beam-testing machine. 2,158,008; May 9.
Gratehouse, James G. (See Church, Walter L., assignor.)
Gray, Herbert E., San Jose, Calif. Fruit and vegetable dicing apparatus. 2,157,604; May 9.
Gray Manufacturing Company, The. (See Long, George A. and W. W., assignors.)
Greedy, Edward D. (See Hruska, F. J., and Greedy.)
Green, Daniel, Company. (See Disch, John E., assignor.)
Greenberg, Charles B., New York, N. Y. Spring bars. 2,157,408; May 9.
Greene, J. H., et al. (See Wentz, Mark, assignor.)
Greenup, Harold W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Thermal insulation. 2,157,096; May 9.
Greider, Harold W., and H. Marc, Wyoming, Ohio, assignors to The Phillip Carey Manufacturing Company. Manufacture of formed bituminous bodies. 2,157,696; May 9.
Greiner, Kurt R. (See Geisslinger, R., and Greiner.)
Grelok, William P. M., Baltimore, Md. Self-preserving semisolid food product from distiller's slop. 2,158,043; May 9.
Griffith Laboratories, Inc., The. (See Jones, W. Bartlett, assignor.)
Gronberg, Victor A. (See Jones, J. R., and Gronberg.)
Gross, Walter E. (See Jelinek, A. F., and Gross.)
Grosse, Aristid V. (See Morrell, J. C., and Grosse.)
Grosse, Aristid V., assignor to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of hydrocarbons. 2,157,202; May 9.
Grosse, Aristid V., and J. M. Mavity, assignors to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of hydrocarbons. 2,157,203; May 9.
Grosse, Aristid V., and J. C. Morrell, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,157,204; May 9.
Grosser, Christian E., assignor to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,157,852; May 9.
Gruen Watch Company, The. (See Lux, Eugene, assignor.)
Grundmann, Gustave L., Westmont, and H. C. Allen, Marlton, N. J., assignors to Radio Corporation of America. Television receiver. 2,157,170; May 9.
Guardian Electric Mfg. Co. (See Obszarny, Theodore J., assignor.)
Guedon, Emile C. (See Blessing, G. W., and Guedon.)
Guiteras, Albert F. (See Gessler, A. E., Guiteras, and Clarkson.)
Gulf Oil Corporation. (See Cantrell, T. L., and Peters, assignors.)
Gulliksen, Finn H., Wilkinsburg, and J. W. Dawson, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 2,157,893; May 9.
Gurd, Charles, and Company. (See Lemire, Wilfrid, assignor.)
Haack, Theodore T. (See De Long, Dwight M., assignor.)
Hadaway, John B., Swampscott, Mass. Bait holder and hook. 2,157,333; May 9.
Hagedorn, Max, Dessau, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of plastic masses. 2,157,697; May 9.
Hahn, Frederick C. (See Ellsworth, D. C., and Hahn.)
Haines, John R., assignor to Detroit Macoid Corporation, Detroit, Mich. Cellulosic coating. 2,157,334; May 9.
Hall, Richard W., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Conveyer chain. 2,157,289; May 9.
Haller, Cyrus W., Marblehead, assignor to Hygrade Sylvania Corporation, Salem, Mass. Making contactor bases for electric lamps, tubes, and the like. 2,158,044; May 9.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar bunch shaping machine. 2,157,125; May 9.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Wrapper cutting and delivering mechanism. 2,157,536; May 9.
Halvorsen, Arthur L., Staten Island, N. Y. Asphalt emulsions and making same. 2,157,698; May 9.
Hallowell, Howard T., Jenkintown, and F. A. Bennett, Philadelphia, assignors to Standard Pressed Steel Co., Jenkintown, Pa. Pressed metal leg structure. 2,157,955; May 9.
Hamman, Betty R. (See Robertson, E. C., and Hamman.)
Hammond, John W. (See George, R. H., Heim, and Hammond.)
Hancock, William T., Long Beach, Calif. Paint. 2,157,205; May 9.
Hanna, William T., Cincinnati, Ohio. Engine frame. 2,157,124; May 9.
Hansella Albert Henkel K. G. (See Thürlings, Hermann, assignor.)
Hansen, Ernest, Greenwich, Conn. Pocket cigarette machine. 2,157,605; May 9.
Hansen, Louis E., assignor of twenty-four and one-half per cent to W. B. Robinson and twenty-four and one-half per cent to A. Rutherford, Spokane, Wash. Retarded switch. 2,157,664; May 9.
Hardy, Charles, Pelham, and C. L. Mantell, Manhasset, N. Y., assignors to Hardy Metallurgical Company. Electrolytic metal powders. 2,157,699; May 9.
Hardy Metallurgical Company. (See Hardy, C., and Mantell, assignors.)
Harrel, Chastain G., and A. W. Lindert, assignors to Pillsbury Flour Mills Company, Minneapolis, Minn. Feed and process of preparing same. 2,157,755; May 9.
Harris, Alexander C., Letchworth, England. Electrically heated fabric. 2,157,606; May 9.
Harshaw Chemical Company, The. (See Burchfield, Paul E., assignor.)
Harshaw Chemical Company, The. (See Long, Kenneth E., assignor.)
Hart, Henry J., West Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,157,607; May 9.
Hartzell Industries, Inc. (See Charavay, Frederick, assignor.)
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Composition of matter and methods and steps of making and using the same. 2,157,126; May 9.
Haskins, Joseph F., administrator. (See Ellsworth, D. C., and Hahn.)
Haskin, Walter E., Flushing, assignor to Pressed & Welded Steel Products Company, Inc., New York, N. Y. Book rack. 2,157,894; May 9.
Hasselhorn, Walter C., and J. J. Thompson, assignors to Kellogg Company, Battle Creek, Mich. Decaffeination of coffee. 2,157,956; May 9.
Hathaway, Ralph A., Girard, Pa., assignor to Louis Marx & Company, Ind., New York, N. Y. Block signal for toy railroads. 2,157,171; May 9.
Haubert, Leo, Tulsa, Okla. Load binder. 2,157,451; May 9.
Haupt, Hans, Berlin-Zehlendorf, Germany. Folding umbrella. 2,157,335; May 9.
Hawgood, Harvey R., Cleveland, Ohio. Winding and winding apparatus. 2,157,984; May 9.
Haydon, Clarence B. (See Ellis, W. D., III, and Haydon.)

Hays, Rex B., Hove, assignor to Tee Up Limited, London, England. Apparatus for playing a game. 2,157,172; May 9.
Hazelett, Clarence W., Greenwich, Conn. Distributing device. 2,157,538; May 9.
Heath, Delos P., Detroit, Mich., assignor to Frigidaire Corporation, Dayton, Ohio. Evaporator. 2,157,127; May 9.
Hecht, Otto. (See Reppe, W., and Hecht.)
Heckert, Winfield W., Ardentown, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthetic fibers. 2,157,118; May 9.
Heddon's, James, Sons. (See McArthur, Joseph, assignor.)
Helm, Howard J. (See George, R. H., Helm, and Hammond.)
Hein, Carl C., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Contact assembly for double-surfaced rectifier elements. 2,157,895; May 9.
Heise, Arthur C., and M. W. Jacobi, Baltimore, Md. Shield for electrical outlets. 2,157,957; May 9.
Heising, Raymond A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,157,336; May 9.
Heisner, Donald A., assignor to The Lorain Telephone Company, Lorain, Ohio. Radio telephone system. 2,157,234; May 9.
Held, Roy J., Freeport, Ill. Metal bottle. 2,157,896; May 9.
Helfrecht, Fred A., Oakland, Calif. Air cooling device. 2,157,409; May 9.
Heller, M. T., Chicago, Ill., assignor, by mesne assignments, to Marshall & Ilsley Bank, Milwaukee, Wis. Wrapper and system of producing same. 2,157,410; May 9.
Hemphill Company. (See Lawson, Robert H., assignor.)
Henderson, Albert, assignor to W. P. Witherow, Pittsburgh, Pa. Drain for foundation walls. 2,157,290; May 9.
Hendry, William A. (See Carmack, Arthur F., assignor.)
Henriksen, Alfred. (See Lincoln, B. H., and Henriksen.)
Henry, Alexander D. (See Lee, F. T., and Henry.)
Hensel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Silver-indium contact. 2,157,933; May 9.
Hensel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Refractory metal compositions. 2,157,935; May 9.
Hensel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Refractory metal compositions. 2,157,936; May 9.
Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co. Inc., Indianapolis, Ind. Copper-magnesium alloys of improved properties. 2,157,934; May 9.
Herly, Jack, et al. (See Neesen, O., and Siess, assignors.)
Hershberg, Samuel, Brooklyn, N. Y. Photographic developing machine. 2,157,128; May 9.
Herskind, Carl C., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting system. 2,157,897; May 9.
Hertzberg Patents Inc. (See Hertzberg, William, assignor.)
Hertzberg, William, assignor to Hertzberg Patents Inc., New York, N. Y. Mitten mop. 2,157,700; May 9.
Hewson, Bertram T., North Kensington, London, England. Detachable heel and sole for footwear. 2,157,235; May 9.
Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Deadlocking latch. 2,157,853; May 9.
Hight, Stuart C., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric apparatus. 2,157,701; May 9.
Hill, F. H., Company. (See Scholl, Harry S., assignor.)
Hinman, Walker M., Winnetka, assignor to The Frederick Post Company, Chicago, Ill. Manufacture of diazo type material. 2,157,206; May 9.
Hipsh, Charles. (See Pullins, Atwood V., assignor.)
Hiteshew, James W. R., Columbus, Ohio. Glassware foot making machine. 2,157,985; May 9.
Hoban, Fairfield W., assignor to Stewart & McGuire, Inc., New York, N. Y. Dispensing machine. 2,157,207; May 9.
Hockley, Adelaide. (See Rummel, Reba B., assignor.)
Hoffman, Viola, Cleveland, Ohio. Plating bright zinc. 2,157,129; May 9.
Hoffstetter, Carl H. and R. F., Erie, Pa. Stove and range. 2,157,608; May 9.
Hoffstetter, Robert F. (See Hoffstetter, Carl H. and R. F.)
Hofmeier, Hermann. (See Nowak, P., Tobis, and Hofmeier.)
Hohwart, William, New York, N. Y. Self-sealing envelope. 2,157,898; May 9.
Hokanson, Martin, assignor to Eidco, Inc., Duluth, Minn. Bimetallic ice rack. 2,157,130; May 9.
Hoke, John I., New Carlisle, Ind. Spring tooth harrow. 2,157,702; May 9.
Holden, Arthur, and W. A. Brown, assignors to Gasolitor Co., Inc., Los Angeles, Calif. Apparatus for producing combustible gas. 2,157,487; May 9.
Holland, Samuel S., Methuen, Mass. Loom reed. 2,157,173; May 9.
Holliday, W. J., & Co. (See Ridgely, James A., assignor.)
Hollmann, Hans E., assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Crystal mounting with temperature compensation. 2,157,665; May 9.
Hollstein, Paul, Carlstadt, N. J., assignor to J. M. Lehmann Company, Inc., New York, N. Y. Hydraulic press. 2,157,539; May 9.
Holst, Paul F. G., Oaklyn, N. J., assignor to Radio Corporation of America. Battery-operated receiver. 2,157,899; May 9.
Holzcker, Richard, Lake Wales, Fla. Fecto phenolic synthetic resin and making same. 2,157,488; May 9.
Hopkins, Constant C., Woodstock, assignor of one-half to P. H. Waller, Chicago, Ill. Ventilator. 2,157,609; May 9.
Hopkins, George W., Jr., San Leandro, Calif., assignor to Marchant Calculating Machine Company. Calculating machine. 2,157,411; May 9.
Hopkins, Horner H., Des Moines, Iowa. Knife holder. 2,157,412; May 9.
Hopkins, Leonard, Holyoke, Mass. Fold-making machine. 2,157,900; May 9.
Horn, George B. (See Starring, D. S., and Horn.)
Horni, Paul P., Newark, N. J. Traffic signaling system. 2,157,236; May 9.
Horni, Paul P., Newark, N. J. Fire alarm signaling system. 2,157,237; May 9.
Horwitt, Nathan G., New York, N. Y. Cyclometer clock. 2,157,540; May 9.
Hosokawa, Kuro, Suwa-gun, Nagano-ken, assignor to T. Ozawa, Tokyo, Japan. Manufacturing a fertilizer by employing calcium cyanamide as the raw material. 2,157,541; May 9.
Hossenfelder, Georg, Berlin, Germany. Arrangement for connecting structural elements. 2,157,986; May 9.
Hothersall, John M., and G. C. Reid, Brooklyn, assignors to American Can Company, New York, N. Y. Can cooling and drying machine. 2,157,131; May 9.
Houdaille-Hershey Corporation. (See Ferguson, Arthur P., assignor.)
Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)
Houdaille-Hershey Corporation. (See Schatzman, George W., assignor.)
Hovgaard, Ole M., Orange, and L. F. Koerner, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric apparatus. 2,157,703; May 9.
Howard, David J., assignor to Quaker Manufacturing Company, Chicago, Ill. Window for stoves. 2,157,413; May 9.
Howell, Edward N., Swannanoa, N. C. Key-filing device. 2,157,788; May 9.
Howell Electric Motors Company. (See Sinnett, John B., assignor.)
Hoye, Peder B., Maywood, assignor to Electrical Engineers Equipment Company, Melrose Park, Ill. Switch. 2,157,174; May 9.
Hruska, Frank J., and E. D. Greedy, assignors to Lefebure Corporation, Cedar Rapids, Iowa. Stand. 2,158,020; May 9.
Hucks, Robert T., South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating compositions and preparing same. 2,157,901; May 9.
Hubel, Eugen, Berlin, Germany, assignor to General Electric Company. High voltage measurement means. 2,157,823; May 9.
Hudgens, Mark C. (See Hudgens, Waman M. and M. C.)
Hudgens, Waman M. and M. C., Sparta, Tenn. Jewel setting holder. 2,157,789; May 9.
Hufnagel, Andrew, Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,158,009; May 9.
Hughes, Ronald C. (See Minaeff, M. G., and Hughes.)
Humoco Corporation. (See Moore, George A., assignor.)
Humphreys, Robert L., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Extreme pressure lubricating compositions. 2,157,452; May 9.
Hunt, J Harold, assignor to Motor Wheel Corporation, Lansing, Mich. Stamped metal wheel. 2,157,175; May 9.
Hunt, John H., assignor to General Motors Corporation, Detroit, Mich. Double toric friction transmission. 2,157,238; May 9.
Hunter Sash Company. (See Colleran, Thomas J., assignor.)
Hutaff, George H., Jr., Wilmington, N. C. Bottle cap. 2,157,239; May 9.
Hutchison, William K. (See Pexton, S., Hutchison, and Birks.)
Hutt, Robert B. W., Hartford, and R. N. Abild, East Hartford, assignors to trustees of Trinity College, Hartford, Conn. Measuring energy in psychological experimentation. 2,157,790; May 9.
Hygrade Sylvania Corporation. (See Haller, Cyrus W., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Baehr, H., and Braus, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Gericke, P. H., v. Baumbach, and Berndt, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Hagedorn, Max, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Müller, Theodor, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Reppe, W., and Hecht, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ulrich, H., and Koerding, assignors.)
Iams, Harley A., Berkeley Heights, N. J., assignor to Westinghouse Electric & Manufacturing Company. Photoelectric cell oscillation circuit. 2,157,824; May 9.
Ihrig, Harry K., assignor to Globe Steel Tubes Co., Milwaukee, Wis. Impregnation of metals with silicon. 2,157,902; May 9.
Industrial Process Corporation. (See Minor, Henry R., assignor.)
Industrial Rayon Corporation. (See Samerdyke, Fred J., assignor.)
Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
Innes Company. (See Innes, George, assignor.)
Innes, George, Davenport, assignor to Innes Company, Bettendorf, Iowa. Haymaker mechanism. 2,157,261; May 9.
Interchemical Corporation. (See Gessler, A. E., Guiteras, and Clarkson, assignors.)
Interchemical Corporation. (See MacArthur, Charles J., assignor.)
International Cigar Machinery Company. (See Halstead, John F., assignor.)
International Cigar Manufacturing Company. (See Wheeler, Henry H., assignor.)
International Derrick & Equipment Company. (See Bloss, Richard R., assignor.)
Ipatieff, Vladimir, and R. E. Schaad, assignors to Universal Oil Products Company, Chicago, Ill. Polymerization and catalyst therefor. 2,157,208; May 9.
Irelan, Ellison S. (See MacDonald, E. R., and Irelan.)
Irving Air Chute Co. (See Smith, Floyd, assignor.)
Irwin, Milton, assignor of one-half to W. G. Berg, Minneapolis, Minn. Irrigating apparatus. 2,157,756; May 9.
Jackes-Evans Manufacturing Company. (See Jackes, Stanley F., assignor.)
Jackes, Stanley F., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo. Apparatus for assembling stovepipes. 2,157,337; May 9.
Jackson, James P., Oklahoma City, Okla. Deep well pump. 2,157,704; May 9.
Jackson, Robert H., Orange, Calif. Spinning rope pipe tongs. 2,157,338; May 9.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Flywheel magneto assembly for internal combustion engines. 2,157,666; May 9.
Jacobi, Millard W. (See Heise, A. C., and Jacobi.)
Jacobsen, Richard S., Wheaton, Ill. Variable speed transmission. 2,157,757; May 9.
Jacobsen, Richard S., Wheaton, Ill. Change speed transmission. 2,157,758; May 9.
Jaeger, Hans, Karlshorst, Berlin, asisgnor to Admos Bleibronze Dr. Springorum & Co., Kom.-Ges, Berlin-Oberschoneweide, Germany. Process for the manufacture of bearings. 2,157,453; May 9.
Jandus, Herbert S., assignor, by mesne asisgnments, to Houdaille-Hershey Corporation, Detroit, Mich. Bumper structure. 2,157,825; May 9.
Jansen, Cecelia S., Los Gatos, Calif. Adjustable measuring cup. 2,157,262; May 9.
Janssen, Johann F., Stuttgart, Germany, assignor to Robert Bosch Gesellschaft mit beschränkter Haftung. Fuel delivery apparatus for injection internal combustion engines. 2,157,737; May 9.
Jardine, Louise S., administratrix. (See Jardine, Robert.)
Jardine, Robert, deceased; by L. S. Jardine, administratrix, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Valve for internal combustion engines. 2,157,610; May 9.
Jayne, David W., Jr., Elizabeth, N. J., assignor to American Cyanamid Company, N. Y. Composition of matter useful for mothproofing. 2,157,854; May 9.
Jeffery, James H., and C. B. Matt, assignors to Plaskon Company, Incorporated, Toledo, Ohio. Apparatus for conveying particulate materials. 2,157,339; May 9.
Jelinek, Alfred F., and W. E. Gross, assignors to The Cleveland Automatic Machine Company, Cleveland, Ohio. Indexing mechanism for automatic screw machines. 2,157,958; May 9.
Jewel, Paul W., and J. R. Pratt, assignors to Max Factor & Co., Los Angeles, Calif. Dyestuff and making the same. 2,157,667; May 9.
Joal Manufacturing Corporation. (See Coventry, Joseph F., assignor.)
Johns-Manville Corporation. (See Wells, Edward H., Jr., assignor.)
Johns-Manville Corporation. (See Ximenez, Manuel R., assignor.)
Johnson, Alfred J. (See Lubs, H. A., and Johnson.)
Johnson, Edward C., Stratford, assignor to Neva-Clog Products, Inc., Bridgeport, Conn. Stapling plier. 2,157,987; May 9.
Johnson, Glenn D., Compton, assignor to Baash-Ross Tool Company, Los Angeles, Calif. Valve actuating mechanism. 2,157,263; May 9.
Johnson, Carl A., Chicago, Ill. Artificial fishing bait. 2,157,414; May 9.
Johnson, Kenneth, Terre Haute, assignor to Purdue Research Foundation, Lafayette, Ind. Hydrogenation of nitrohydroxy compounds. 2,157,886; May 9.
Jollie, Andrew, St. Helens, England, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Drawing glass strip. 2,157,759; May 9.
Jones, James R., and V. A. Gronberg, assignors to Art Metal Construction Company, Jamestown, N. Y. Suspension for drawers and analogous devices. 2,157,611; May 9.
Jones, Linus H., Amherst, Mass., assignor to W. B. Jones, Chicago, Ill. Supporting potted plants. 2,157,340; May 9.
Jones, Mary, et al. (See Nash, William M., assignor.)
Jones, W. Bartlett, assignor to The Griffith Laboratories, Inc., Chicago, Ill. Weighing scale indicator. 2,157,705; May 9.
Jones, W. Bartlett, assignor to The Griffith Laboratories, Inc., Chicago, Ill. Weighing and weight change indicating device. 2,157,706; May 9.
Jones, W. Bartlett. (See Jones, Linus H., assignor.)
Jones, William L., Los Angeles, Calif. Practice golf club. 2,157,415; May 9.
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Mine pump. 2,157,132; May 9.
Julius, John H. W. (See Thege, E. O. P., and Julius.)
Jung, Albert H., Flushing, assignor to United American Metals Corporation, Brooklyn, N. Y. Ingot for feeding machines. 2,157,097; May 9.
Kane & Roach, Inc. (See Kane, William E., assignor.)
Kane, William E., assignor to Kane & Roach, Inc., Syracuse, N. Y. Straightening machine. 2,157,760; May 9.
Kearfott Engineering Co. (See Kraemer, Waldo L., assignor.)
Kearney & Trecker Corporation. (See Armitage, Joseph B., assignor.)
Kearney, William P., Woodmere, N. Y. Horseshoe. 2,157,826; May 9.
Keel, Adolf, Highland Park, Mich., assignor to Ex-Cell-O Corporation. Valve structure. 2,157,240; May 9.
Keel, Adolf, Highland Park, Mich., assignor to Ex-Cell-O Corporation. Hydraulic control valve. 2,157,707; May 9.
Kell, Havard L., assignor to Armour and Company, Chicago, Ill. Extracting physiologically active materials from animal tissues. 2,157,133; May 9.
Keith, David F., Cleveland, Ohio. Combination gauge system. 2,157,708; May 9.
Kellogg Company. (See Hasselhorn, W. C., and Thompson, assignors.)
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Public address stabilizing system. 2,157,177; May 9.
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Public address stabilizing system. 2,157,178; May 9.
Kelsey-Hayes Wheel Company. (See Baisch, Carl F., assignor.)
Kern, Walter, Sissach, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Vat dyestuffs and making same. 2,157,341; May 9.
Keys, James J., New York, N. Y. Supporter. 2,157,454; May 9.
Kidd, James M., Birmingham, Ala. Filter for cream and milk. 2,157,668; May 9.
Kiefer, Edwin F. (See Chaney, N. K., and Kiefer.)
Kieser, Hugo, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Germany. Governor. 2,157,542; May 9.
Kiessling, Max and M. J., Waterbury, Conn. Hopper machine for stacking slide fastener elements. 2,157,709; May 9.
Kiessling, Max J. (See Kiessling, Max and M. J.)
Kimmel, Charles P., Gary, Ind. Bearing for rolling mills. 2,157,455; May 9.
Kingman, Russell B., Orange, N. J. Wax charged applicator pad. 2,157,543; May 9.
Kingston Products Corporation. (See Douglas, Harry A., assignor.)
Kinney, Charles S. (See Engel, K., and Kinney.)
Kirby, Samuel B., Jr., Louisville, Ky. Illuminated structure. 2,157,264; May 9.
Kirk, James E., Bremen, Ga. Police grab. 2,157,612; May 9.
Kishline, Floyd F., Detroit, Mich., assignor to Graham-Paige Motors Corporation. Supercharger for internal combustion motors. 2,157,761; May 9.
Kittle Manufacturing Co. (See Frey, Elmer E., assignor.)
Kjos, Hans A., Minneapolis, Minn. Centrifugal atomizer. 2,157,416; May 9.
Kliemann, Erich, Berlin, Germany, assignor to General Electric Company. Turbine rotor. 2,157,827; May 9.
Klima, William W., Stewart, Minn. Darning device. 2,157,791; May 9.
Kline, Emil, Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and preparing the same. 2,157,544; May 9.
Klosterman, Harry W., Portland, Oreg. Guard for primer valves. 2,157,545; May 9.

Kluitmann, Leo, Dusseldorf, Germany. Offset rotary copying machine. 2,157,489; May 9.
Knapp, Alfred P., Sunnyside, assignor to The Andrews Lead Company, Inc., Long Island City, N. Y. Method and machine for making pipe. 2,157,988; May 9.
Kneisley, Richard F., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Automatic circuit selector. 2,157,417; May 9.
Knight, Allan W., Hobart, Tasmania, Australia. Footing bridge. 2,157,959; May 9.
Knox, William R., assignor to The Foote-Burt Company, Cleveland, Ohio. Machine tool. 2,157,762; May 9.
Koch, Winfield R., Merchantville, N. J., assignor to Radio Corporation of America. Tuning system for ultra-high-frequency radio apparatus. 2,157,855; May 9.
Koch, Winfield R., Merchantville, N. J., assignor to Radio Corporation of America. Diode rectifier. 2,157,856; May 9.
Koerding, Paul. (See Ulrich, H., and Koerding.)
Koerner, Lawrence F. (See Hovgaard, O. M., and Koerner.)
Kollath, Francis C., Chicago, Ill. Lamp guard and handle. 2,157,738; May 9.
Konikoff Brothers. (See Konikoff, Robert H. and M. A., assignors.)
Konikoff, Maurice A. (See Konikoff, Robert H. and M. A.)
Konikoff, Robert H., Astoria, and M. A. Konikoff, assignors to Konikoff Brothers, New York, N. Y. Doll. 2,157,763; May 9.
Koonce, David, Bellaire, Ohio. Throttle control lever. 2,157,792; May 9.
Koscherak, Otto L., White Plains, N. Y. Bottle cap. 2,157,937; May 9.
Koyemann, Alfred, Hamburg, Germany, assignor, by mesne assignments, to Naamlooze Vennootshap Derde Nederlandsche Patentenmaatschnappij (D. N. P. M.), The Hague, Netherlands. Uniting sprayed metal to wood. 2,157,456; May 9.
Kraemer, Waldo L., Brooklyn, N. Y., assignor to Kearfott Engineering Co., Inc. Pilot-house window. 2,157,210; May 9.
Krupp, Fried., Aktiengesellschaft. (See Naumann, Friedrich K., assignor.)
Kukula, Frank, Chicago, Ill. Door check. 2,157,342; May 9.
Kuna, Josef, Prague, Czechoslovakia. Sliding clasp fastener. 2,157,828; May 9.
Kunze, Wilhelm. (See Zerweck, W., and Kunze.)
Kury, Philip J. (See Brewer, Charles A., assignor.)
Lackenbach, Armand E. (See Rosenhauser, Charles G., assignor.)
La Hodny, William, Buffalo, N. Y. Rear view mirror. 2,157,613; May 9.
Lake, Harry E., Flushing, N. Y., assignor to Barber-Colman Company, Rockford, Ill. System of control for burners. 2,157,720; May 9.
Lamb, Frank H., Hoquiam, Wash. Tractor. 2,157,711; May 9.
Lamica, Clement G., assignor to H. E. Drake, Newark, N. J. Combination amustment and advertising device. 2,157,266; May 9.
Landund Forstwirtschaft-liche Betriebsgesellschaft m. b. H., et al. (See Neesen, O., and Siess, assignors.)
Lang, Henry W., Concord, N. H. Automombile fender. 2,157,793; May 9.
Langrish, Henry W., Deptford, London, assignor to Molins Machine Company Limited, London, England. Tobacco leaf cutting machine. 2,157,457; May 9.
Langrognet, Georges R., Oleans-Loiret, France. Internal combustion engine. 2,157,764; May 9.
Lanova Corporation. (See Fischer, Hans, assignor.)
Lanter, Clarence W., Chicago, Ill. Baling. 2,157,765; May 9.
Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Torsion testing machine. 2,157,903; May 9.
Larsen, Earl I. (See Hensel, F. R., and Larsen.)
Larson, Harold L. (See Cormier, F. L., and Larson.)
Latulippe, Eddy D., assignor to Aeroplane Improvements Limited, Montreal, Quebec, Canada. Muffler. 2,158,030; May 9.
Lawrence, John H., Bronxville, assignor to Metropolitan Engineering Company, Brooklyn, N. Y. Boiler furnace wall and part therefor. 2,157,904; May 9.
Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Needle bed. 2,157,546; May 9.
Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Pattern means for knitting machines. 2,157,980; May 9.
Lazarus, Harry, New York, N. Y. Colonic irrigator. 2,157,614; May 9.
Lazier, Wilbur A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Priming mixtures. 2,157,669; May 9.
Le Baron, Theodore. (See Molin, L. A., and Le Baron.)
Le Claire, William, Roundup, Mont. Compression apparatus. 2,157,615; May 9.
Lederle, Ekbert, Ludwigshafen-on-the-Rhine, Germany, assignor to General Dyestuff Corporation, New York, N. Y. Producing red chromium pigments. 2,157,712; May 9.
Lee, Filemon T., and A. D. Henry, San Francisco, Calif. Aligning and racket stringing device. 2,157,616; May 9.
Lee, Paul R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermostat. 2,157,857; May 9.
Lefebure Corporation. (See Hruska, F. J., and Greedy, assignors.)
Lehmann, J. M., Company. (See Hollstein, Paul, assignor.)
Lehnus, Edward L., Plover, Iowa. Radio control device. 2,157,291; May 9.
Leibensperger, Charles I., and F. H. Thorpe, assignors to The Columbus Sucker Rod Company, Columbus, Ohio. Manufacturing sucker rod couplings and couplings so made. 2,157,713; May 9.
Leich Electric Co. (See Reid, A. C., and McCreary, assignors.)
Leitz, Ernst, G. m. b. H. (See Leitz, Ludwig, assignor.)
Leitz, Ludwig, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Photographic camera. 2,157,547; May 9.
Leitz, Ludwig, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Photographic view finder. 2,157,548; May 9.
Lemire, Wilfrid, assignor to Charles Gurd and Company, Limited, Montral, Quebec, Canada. Bottle filling valve. 2,157,292; May 9.
Lenta, Joseph G., Duluth, Minn. Finger cot. 2,157,293; May 9.
Lenz, Peter L., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Manometer switch. 2,157,905; May 9.
Lewis, Charles H. (See Urbain, O. M., and Stemen, assignors.)
Lichty, Joy G., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Vulcanization of rubber. 2,158,021; May 9.
Lichty, Joy G., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Vulcanization of rubber. 2,158,022; May 9.
Lier, Heinrich, assignor to the firm of Chemical Works formerly Sandoz, Basel, Switzerland. Mercerizing lyes and their manufacture. 2,157,294; May 9.
Lier, Heinrich, assignor to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Polyazo dyestuffs and their manufacture. 2,157,295; May 9.
Lincoln, Bert H., and A. Henriksen, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating oils. 2,157,134; May 9.
Linde Air Products Company, The. (See Bucknam, James H., assignor.)
Linde Air Products Company, The. (See Zenner, George H., assignor.)
Lindenberg, Louis, Rapid City, Manitoba, Canada. Poultry nest. 2,157,490; May 9.
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Facsimile ink recorder. 2,157,549; May 9.
Linder, Ernest G., Philadelphia, Pa., assignor to Radio Corporation of America. Microwave oscillator and detector. 2,157,179; May 9.
Lindert, Albert W. (See Harrel, C. G., and Lindert.)
Lindley Box & Paper Company. (See Ballard, Charles H., assignor.)
Lindner, Karl A., Rahway, N. J. Apparatus for casting metals. 2,157,550; May 9.
Lindstedt, Gustav A., assignor to Aktiebolaget Linham, Stockholm, Sweden. Device for screening-off secondary X-rays. 2,157,491; May 9.
Link-Belt Company. (See Dyson, Ralph S., assignor.)
Linotype and Machinery Limited. (See Billington, J. E., and Scott, assignors.)
Lippitt, Stephen W., Cleveland, Ohio. Spring cover. 2,157,418; May 9.
Little, Royal, Providence, and F. W. Fraim, Cranston, assignors to Franklin Rayon Corporation, Providence, R. I. Apparatus for testing textile packages. 2,157,135; May 9.
Little, Thomas J., Riverdale, assignor to Anaconda Wire & Cable Company, New York, N. Y. Zinc ground rod. 2,157,180; May 9.
Livingston, Callard, Chicgo, assignor of one-half to J. A. Davis, Highland Park, Ill. Razor. 2,157,492; May 9.
Locke Insulator Corporation. (See Rowland, Davidge, H., assignor.)
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Condensation reaction. 2,158,031; May 9.
Loebs, Albert G., Jr. (See Loebs, Albert J., assignor.)
Loebs, Albert J., Brooklyn, assignor to A. G. Loebs, Jr., Forest Hills, N. Y. Air injector for internal combustion engines. 2,157,551; May 9.
Lohausen, Karl A., Berlin-Oberschonewelde, Germany, assignor to General Electric Company. Fuse. 2,157,907; May 9.
Lohausen, Karl A., Oberschonewelde, Germany, assignor to General Electric Company. Electric fuse. 2,157,906; May 9.
Lohr, Raymond, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy weapon. 2,157,181; May 9.
Lombard, Robert H. (See Milligan, L. H., and Lombard.)

Long, George A. and W. W., Hartford, Conn., assignors, by mesne assignments, to The Gray Manufacturing Company. Telephone pay station. 2,157,617; May 9.
Long, Kenneth E., South Euclid, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Basic lead naphthenate. 2,157,766; May 9.
Long, Kenneth E., South Euclid, assignor to The Harshaw Chemical Company, Elyria, Ohio. Basic metal salts and making. 2,157,767; May 9.
Long, Kenneth E., South Euclid, assignor to The Harshaw Chemical Company, Elyria, Ohio. Production of metallic driers. 2,157,768; May 9.
Long, William W. (See Long, G. A. and W. W.)
Longoria, Antonio, Lakewood, Ohio, assignor to Niagara Wire Weaving Company, Ltd., Niagara Falls, Ontario, Canada. Method and apparatus for welding. 2,157,769; May 9.
Lorain Telephone Company, The. (See Heisner, Donald A., assignor.)
Lowe, Russell E. (See Morgan, J. D., and Lowe.)
Lowe, William G. (See Daly, A. J., and Lowe.)
Lubri-Zol Development Corporation, The. (See Lincoln, B. H., and Henriksen, assignors.)
Lubs, Herbert A., Wilmington, Del., and A. J. Johnson, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing symmetrical thioindigo dyes. 2,158,032; May 9.
Luce, Richard W., Westfield, N. J., assignor to Signal Service Corporation. Making lenses. 2,157,209; May 9.
Lufkin Foundry & Machine Company. (See Trout, Walter C., assignor.)
Lux, Eugene, New York, N. Y., assignor to The Gruen Watch Company, Cincinnati, Ohio. Watch box. 2,157,990; May 9.
Lyon, George A., Allenhurst, N. J. Ornamental wheel disk. 2,157,136; May 9.
Lyon, George A., Allenhurst, N. J. Ornamental wheel disk structure. 2,157,908; May 9.
Lyon, George A., Detroit, Mich. Ornamental wheel disk. 2,157,960; May 9.
MacArthur, Charles J., Glen Rridge, N. J., assignor to The Interchemical Corporation, New York, N. Y. Setting coloring and coating compositions. 2,157,387; May 9.
MacArthur, Charles J., Glen Ridge, N. J., assignor to The Interchemical Corporation. Printing and setting a printing ink. 2,157,388; May 9.
MacCallum, Frank, Washwood Heath, Birmingham, assignor to Maxolite Holdings Limited, London, England. Attaching paste to the plates of electric batteries. 2,157,961; May 9.
MacDonald, Edmund R., Attleboro Falls, and E. S. Irelan, assignors to Evans Case Company, North Attleboro, Mass. Making receptacles. 2,157,794; May 9.
Mack, Herbert H. (See Dodge, G. A., Meinholdt, and Mack.)
Macksoud, Michel E., St. Albans, assignor to Macksoud Patents, Inc., New York, N. Y. Electron discharge device. 2,157,552; May 9.
Macksoud Patents, Inc. (See Macksoud, Michel E., assignor.)
MacNeil, John B., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,157,714; May 9.
Madison Products Company, The. (See Zumft, George, assignor.)
Madlé, Alain, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Power transmission control. 2,157,267; May 9.
Major, Randolph T., Plainfield, N. J., and E. W. Cook, New York, N. Y., assignors to Merck & Co. Inc., Rahway, N. J. Xyloseen-1,2-Tribenzoates and producing the same. 2,157,137; May 9.
Mallory, P. R., & Co. (See Hensel, F. R., and Emmert, assignors.)
Mallory, P. R., & Co. Inc. (See Hensel, F. R., and Larsen, assignors.)
Malmuth, Joseph A. (See Clarke, C. A., and Malmuth.)
Maloff, Ioury G., Philadelphia, Pa., assignor to Radio Corporation of America. Cathode ray dellecting device. 2,157,182; May 9.
Malter, Louis. (See Zworykin, V. K., and Malter.)
Manning, Axel A., Springfield, Mass. Machine tool. 2,157,241; May 9.
Mantell, Charles L. (See Hardy, C., and Mantell.)
Mantz, Harold A., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Control device. 2,157,296; May 9.
Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Prevention of inductive interference. 2,157,909; May 9.
Marc, Henri. (See Greider, H. W., and Marc.)
Marchant Calculating Machine Company. (See Hopkins, George W., Jr., assignor.)
Marchev, Alfred, La Grange, assignor to Ditto, Incorporated, Chicago, Ill. Spindle. 2,157,419; May 9.
Marinsky, Isaac, Providence, R. I. Tie construction. 2,157,618; May 9.
Marr, David, Warsaw, N. Y. Magnet for organs. 2,158,010; May 9.
Marshall & Ilsley Bank. (See Heller, M. T., assignor.)
Marshall & Ilsley Bank. (See Piazze, Thomas E., assignor.)
Marx, Louis, & Company. (See Hathaway, Ralph A., assignor.)
Marx, Louis, & Company. (See Lohr, Raymond, assignor.)
Marx, Louis, & Company. (See Rexford, Willis E., assignor.)
Mason, Frank. (See Myers, T. G., and Mason.)
Mateer, George L., Roselle, and W. H. Rupp, Elizabeth, N. J., assignors to Standard Oil Development Company. Absorption of gases. 2,157,343; May 9.
Matt, Clayton B. (See Jeffery, J. H., and Matt.)
Mavity, Julian M. (See Grosse, A. V., and Mavity.)
Maxolite Holdings Limited. (See MacCallum, Frank, assignor.)
Mayo, Edward L., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostat and mounting the same. 2,157,770; May 9.
McArthur, Joseph, assignor to James Heddon's Sons, Dowagiac, Mich. Ski pole. 2,157,420; May 9.
McBain, William C., assignor to The Cold Metal Process Company, Youngstown, Ohio. Rolling mill control. 2,157,739; May 9.
McCann, John H., and F. H. Seaburg, Waltham, Mass. Combined push button and illuminated house number device. 2,157,772; May 9.
McCormick, Francis H., Dayton, Ohio, assignor to Edison General Electric Appliance Company, Inc. Liquid heater. 2,157,910; May 9.
McCoy, John J., St. Paul, and K. G. Gerdin, Minneapolis, Minn. Flashlight testing device. 2,157,344; May 9.
McCreary, Harold J. (See Reid, A. C., and McCreary.)
McDonald, Harry W., Minneapolis, Minn. Friction clutch. 2,157,211; May 9.
McDonnell, Edward J., Fox Chapel, assignor to Blaw-Knox Company, Pittsburgh, Pa. Regenerating structure and method. 2,157,553; May 9.
McElwain, William H., assignor of one-fourth to P. M. Clark and one-fourth to J. M. Eckley, Denver, Colo. Combined harvester and grinder. 2,157,619; May 9.
McEwan, Matthew H., and W. G. Buchanan, assignors to Woodall-Duckham (1920) Limited, London, England. Coke guide employed when discharging coke from horizontal coke ovens. 2,157,458; May 9.
McFarlin, William K., East Orange, N. J. Foot valve for pump suction lines. 2,157,554; May 9.
McFarland, George I., Mesa, Ariz. Compensating pipe or sewer cleaner or scraper. 2,157,421; May 9.
McGrath, William L., M. P. Ferguson, and M. P. Whitney, Elmira, N. Y., and D. L. Wertz, Birmingham, Mich., assignors, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Mower attachment. 2,157,620; May 9.
McInturff, Harry L., Berkeley, Calif. Permutation padlock. 2,157,555; May 9.
McKinney, Carlos J., Detroit, Mich., assignor of one-half to J. S. Reid, Shaker Heights, Ohio. Making cellular material. 2,158,033; May 9.
McLaughlin, F. L. (See Burke, James P., assignor.)
McLenegan, David W. (See Whiting, M. A., and McLenegan.)
McLenegan, David W., Caldwell, N. J., assignor to General Electric Company. Power system. 2,157,830; May 9.
McNees, Ora B., Robinson, Ky. Sled knee. 2,157,962; May 9.
Mead, Richard R., Queens village, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 2,157,795; May 9.
Meagher, Joseph H., Bessemer, Mich. Balance wheel and self-oiling wrist pin. 2,157,242; May 9.
Meggenhofen, Eduard M., assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electrical condenser. 2,157,715; May 9.
Megroot, John P., Cleveland, Ohio. Internal combustion engine. 2,157,297; May 9.
Meinholdt, Charles L. (See Dodge, G. A., Meinholdt, and Mack.)
Meisel Press Manufacturing Company. (See Neilson, John P. E., assignor.)
Mendez, Ciro F., Mexico, D. F., Mexico. Method of and apparatus for producing steroscopic pictures. 2,157,138; May 9.
Menschner, Johannes, Rosswein, Germany. Machine for labeling webs. 2,157,556; May 9.
Mercedes Büromaschinen-Werke Aktiengesellschaft. (See Pott, Friedrich, assignor.)
Mercier, Jean, Neuilly-sur-Seine, France. Packing device, stuffing box, and the like. 2,157,299; May 9.
Mercier, Jean, Paris, France. Retractable landing gear for airplanes. 2,157,963; May 9.
Merck & Co. (See Major, R. T., and Cook, assignors.)
Mergenthaler Linotype Company. (See Mead, Richard R., assignor.)
Merkt, Gustav A., assignor to Morgan Construction Company, Worcester, Mass. Reversing apparatus for furnaces. 2,157,771; May 9.
Merriam, Ezra B., New Haven, Conn., assignor to General Electric Company. Electric circuit breaker. 2,157,911; May 9.
Merriman, Henry H., Kalamazoo, Mich. Throttle control device. 2,157,652; May 9.
Metropolitan Engineering Company. (See Lawrence, John H., assignor.)
Metz, Samuel T., assignor to Treo Company, Inc., Jamaica, N. Y. Corset garment. 2,157,422; May 9.

Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Separator. 2,157,829; May 9.
Midland Steel Products Company. (See Sneed, John, assignor.)
Mieg, Walter, and F. Wieners, Opladen, and W. Burneleit, Cologne, Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparation of vat dyestuffs of the anthraquinone series. 2,157,991; May 9.
Milon, Daniel, New Orleans, La. Drying oven. 2,157,938; May 9.
Miles, John B., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Steam treatment of polyamides. 2,157,117; May 9.
Miles, John B., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making fabric. 2,157,119; May 9.
Millen, Stanley S., Glendale, assignor to J. Schmid, Beverly Hills, Calif. Bead forming machine. 2,158,011; May 9.
Miller, Melvin, and L. N. Davis, Flushing, Mich. Well scraper. 2,157,493; May 9.
Miller, Merton R., Evanston, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Synchronous circuit controlling apparatus. 2,157,858; May 9.
Milligan, Lowell H., and R. H. Lombard, assignors to Norton Company, Worcester, Mass. Silicon carbide abrasive product and manufacture. 2,158,034; May 9.
Milwaukee Gas Specialty Company. (See Mantz, Harold A., assignor.)
Minaeff, Michael G., Metuchen, and R. C. Hughes, Highland Park, N. J., assignors to Zonite Products Corporation, New York, N. Y. Stabilized antiseptic cream. 2,157,831; May 9.
Minneapolis-Honeywell Regulator Company. (See Fillo, Francis B., assignor.)
Minor, Henry R., assignor to Industrial Process Corporation, Dayton, Ohio. Making soft sponge. 2,157,243; May 9.
Mirick, Carlos B., Washington, D. C. Battery charging system. 2,157,139; May 9.
Molin, Louis A., and T. Le Baron, Chicago, Ill. Transmitting and amplifying system. 2,157,140; May 9.
Molins Machine Company Limited. (See Langrish, Henry W., assignor.)
Monarch Machine Tool Company, The. (See Beeny, Herbert H., assignor.)
Monsanto Chemical Company. (See Carswell, Thomas S., assignor.)
Moore, George A., assignor to Humoco Corporation, Louisville, Ky. Impervious sheet material. 2,157,212; May 9.
Moore, Paul, et al., trustees. (See Nikitin, A. A., and Adams, assignors.)
Morgan Construction Company. (See Merkt, Gustav A., assignor.)
Morgan, John D., South Orange, N. J., and R. E. Lowe, New York, N. Y., assignors to Power Patents Company, Hillside, N. J. High temperature refractory. 2,158,035; May 9.
Morgenstern, David M., Shaker Heights, and J. Brasty, Maple Heights, Ohio. Insulator. 2,158,012; May 9.
Moriarty, George A., San Diego, Calif. Foot protector. 2,157,423; May 9.
Morrell, Jacque C. (See Grosse, A. V., and Morrell.)
Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of hydrocarbons. 2,157,939; May 9.
Morrell, Jacque C., and A. V. Grosse, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,157,940; May 9.
Morrell, Jacque C., and A. V. Grosse, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,157,941; May 9.
Morton, William A. (See Spencer, H. F., and Morton.)
Mosen, Adolph. (See Cohen, Jacob, assignor.)
Moser, Franz R. (See van Peski, A. J., and Moser.)
Moses, Graham L., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system for trolley frogs. 2,157,859; May 9.
Motor Wheel Corporation. (See Hunt, J Harold, assignor.)
Mount Airy Knitting Company. (See Crossingham, James H., assignor.)
Mueller, Robert A., Houston, Tex. Tubing hanger. 2,157,964; May 9.
Mullen, Thomas W., assignor to Bowes Seal Fast Corporation, Indianapolis, Ind. Making a patch. 2,157,183; May 9.
Muller, Frans G. D., Houston, Tex. Flame arrester safety device. 2,157,298; May 9.
Müller, Kurt, Berlin-Siemensstadt, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Volume control. 2,157,557; May 9.
Müller, Theodor, Leverkusen-I. G. Werk, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Drying apparatus. 2,157,716; May 9.
Multipost Co.. (See Dummer, E. J., and Gay, assignors.)
Mumford, Agnes N. (See Baker, Donald, assignor.)
Munson, Jokum J., Milwaukee, Wis. Head rod holder. 2,157,717; May 9.
Murray, Howard S., Los Angeles, Calif., assignor to Uniflow Pump Company, Las Vegas, Nev. Pump and pumping system. 2,157,141; May 9.
Muskat, Irving E., Akron, and G. H. Cady, Wadsworth, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Preparation of hypochlorites. 2,157,558; May 9.
Muskat, Irving E., Akron, and G. H. Cady, Wadsworth, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Preparing hypochlorites. 2,157,559; May 9.
Muth, Friedrich, Leverkusen-I. G. Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Intermediates for water-insoluble azo dyestuffs. 2,157,796; May 9.
Muth, Friedrich, Leverkusen-I. G.-Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Intermediates for water-insoluble azo dyestuffs. 2,157,797; May 9.
Mutscheller, Arthur, New York, N. Y. X-ray tube. 2,157,718; May 9.
Myers, Oscar. (See Dehn, J. W., and Myers.)
Myers, Thomas G., Los Angeles, Calif., and F. Mason, Chicago, Ill., assignors to U. S. Electrical Motors, Inc. Submersible electric motor. 2,157,424; May 9.
N. V. Philips' Gloeilampenfabrieken. (See Bouwers, Albert, assignor.)
Naamlooze Vennootshap Darde Nederlandsche Patentenmaatschappij (D. N. P. M.). (See Koyemann, Alfred, assignor.)
Nabokin, Jacob, New York, N. Y. Heel cushion. 2,157,912; May 9.
National Blank Book Company. (See Schade, Frank S., assignor.)
National Foam System, Inc. (See Blair, George, assignor.)
National Tube Company. (See Alles, F. W., and Sarber, assignors.)
Napier, George R., East Lansdowne, Pa. Meat stuffer. 2,157,494; May 9.
Nash, Roy A., et al. (See Nash, William M., assignor.)
Nash, William M., Chicago, Ill., assignor of one-fourth to R. A. Nash, New Rochelle, N. Y., one-fourth to M. Jones, and one-fourth to M. D. Nash, Neenah, Wis. Coating device for wet paper. 2,157,213; May 9.
Naturin Gesellschaft mit beschränkter Haftung. (See Becker, Oskar W., assignor.)
Naumann, Friedrich K., Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Manufacture of articles from steel alloys. 2,157,653; May 9.
Naumann, Friedrich K., Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Manufacture of articles from steel alloys. 2,157,654; May 9.
Neece, Frank J., Chicopee Falls, Mass. Thermally-actuated circuit breaker. 2,157,560; May 9.
Neesen, Oscar, Orth-on-the-Danube, and F. A. Siess, Munich, Germany, assignors of one-third to J. Herly, Milwaukee, Wis., and one-third to Landund Forstwirtschaft-liche Betriebsgesellschaft, m. b. H., Vienna, Austria. Making building panels. 2,157,622; May 9.
Nehls, Walter, Berlin-Haselhorst, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Metallic vapor discharge device. 2,157,913; May 9.
Neilson, John P. E., Quincy, assignor to Meisel Press Manufacturing Company, Boston, Mass. Printing cylinder. 2,157,621; May 9.
Nelson, John W., Brainerd, Minn. Clamp. 2,157,345; May 9.
Nelson, Martin L., Park Ridge, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Signaling system. 2,157,860; May 9.
Nelson, Russell B., Onondaga, assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window construction. 2,157,425; May 9.
Nelson, Russell B., Onondaga, assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window construction. 2,157,426; May 9.
Ness, Charles, Indianapolis, Ind., assignor to Oxweld Acetylene Company. Hydraulic back pressure arrester. 2,157,914; May 9.
Neuhauss, Arthur, Burgstadt, Germany. Circular knitting machine. 2,157,300; May 9.
Neuklis, Frank, Tamaqua, Pa. Amusement device. 2,157,798; May 9.
Neuman, Jacob J., South Salem, N. Y. Conveyer for granular materials. 2,157,301; May 9.
Neumann, John, Baltimore, Md. Safety heel. 2,157,184; May 9.
Neva-Clog Products, Inc. (See Johnson, Edward C., assignor.)
Niagara Sprayer and Chemical Co. (See Vosler, Arthur E., assignor.)
Niagara Wire Weaving Company. (See Longoria, Antonio, assignor.)
Nichols Engineering and Research Corporation. (See Woodman, Joseph C., assignor.)
Nickel, Elmer R., Milwaukee, Wis. Electric sign. 2,157,185; May 9.

Nikitin, Alexander A., Newark, and J. F. Adams, Wilmington, Del., assignors to W. C. O'Kane, Durham, N. H., and P. Moore, as trustees of Crop Protection Institute, Washington, D. C. Parasiticidal compositions. 2,157,861; May 9.
Nilsson, Robert S., Le Vesinet, assignor to Société Anonyme des Etablissements Cuttat, Rueil-Malmaison, France. Permit mailing and stamping machine. 2,157,495; May 9.
Norrman, Ernst, Chicago, Ill. Tuning work driving means. 2,157,799; May 9.
North and Judd Manufacturing Company. (See Freysinger, John B., assignor.)
Norton Company. (See Milligan, L. H., and Lombard, assignors.)
Nowak, Paul, Berlin-Charlottenburg, C. Tobis, Berlin-Oberschoneweide, and H. Hofmeier, Berlin-Charlottenburg, Germany, assignors to General Electric Company. Electric circuit interrupter. 2,157,832; May 9.
Nugent, Joseph J., Pleasantville, N. Y. Necktie holder. 2,157,623; May 9.
Nystrom, Karl F., Milwaukee, Wis. Mounting underneath equipment to railroad cars. 2,157,427; May 9.
Oakes Manufacturing Company, The. (See Abendroth, Elmer T., assignor.)
Oakland, Harry C., Chula Vista, Calif. Detachable anti-slipping means. 2,157,561; May 9.
O'Brien, Martin J., administrator. (See Farmer, Arthur J.)
Obszarny, Theodore J., assignor to Guardian Electric Mfg. Co., Chicago, Ill. Plug and jack construction. 2,157,428; May 9.
Ogg, William A., Cincinnati, Ohio. Coal drier. 2,157,268; May 9.
Ohio Carbon Company. (See Stoffel, Lester L., assignor.)
O'Kane, Walter C., et al, trustees. (See Nikitin, A. A., and Adams, assignors.)
Okuda, Isamu, Seattle, Wash. Railroad lifting jack. 2,157,214; May 9.
Oldberg Mfg. Co. (See Visser, G. A., Deremer, and Sprott, assignors.)
Olson, Eric A., South Bend, Ind. Weed extractor. 2,157,915; May 9.
Olson, Phillip W., Grand Rapids, Mich., assignor to Automatic Instrument Company. Lock key. 2,157,142; May 9.
Ono, Sonoji, Ohme-Machi, Nishi Tama-gun, Tokyo-fu, Japan. Foldable umbrella frame. 2,157,670; May 9.
Oppenheimer Casing Co. (See Wollweber, Henry J., assignor.)
O'Reilly, Francis, San Francisco, Calif., assignor to Transit Mixers, Inc. End closure for mixing drums. 2,157,731; May 9.
Ormstead, Jack, Tucson, Ariz. Concrete wall form. 2,157,800; May 9.
Osgood, Walter P., Malden, Mass. Tape applying machine. 2,157,916; May 9.
Oshman, Benjamin and J., New York, N. Y. Tooth brush retainer. 2,157,862; May 9.
Oshman, Joseph. (See Oshman, Benjamin and J.)
Othmer, Donald F., Brooklyn, N. Y., assignor to Tennessee Eastman Corporation, Kingsport, Tenn. Dehydration of acetic acid and other lower fatty acids. 2,157,143; May 9.
Overmyer, George J., Tulsa, Okla. Vacuumizing device for containers. 2,157,624; May 9.
Overstrom, Gustave A., Big Sur, Calif. Screen apparatus. 2,157,562; May 9.
Ow, Joseph W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control apparatus. 2,157,863; May 9.
Owens-Illinois Glass Company. (See Soubler, Leonard D., assignor.)
Oxweld Acetylene Company. (See Ness, Charles, assignor.)
Ozawa, Takewa. (See Hosokawa, Kurd, assignor.)
Packard Motor Car Company. (See Best, Frank C., assignor.)
Packard Motor Car Company. (See Rossman, Peter F., assignor.)
Padden, Edward, St. Albans, N. Y. Clutch throw-out collar. 2,157,429; May 9.
Page Engineering Company. (See Armstrong, Merwin, assignor.)
Page, James M., Jr., Casper, Wyo., assignor to Standard Oil Company, Chicago, Ill. High melting point paraffin waxes and compositions thereof. 2,157,625; May 9.
Page, John E., Sydney, New South Wales, Australia, assignor to President and Directors of the Manhattan Company, as trustee for the Gibson Patent Containers, Ltd. Container. 2,157,302; May 9.
Palmer, Charles R., Glen Acres, assignor to The Palmer Company, Norwood, Ohio. Thermometer. 2,158,045; May 9.
Palmer Company, The. (See Palmer, Charles R., assignor.)
Palmer, Earl W. (See Smith, C. S., and Palmer.)
Park, Robert H., Short Hills, assignor to The Calco Chemical Company, Inc., Bound Brook, N. J. Spectrophotometry. 2,157,389; May 9.
Parker, Harry. (See Rowland, T. C. E., and Parker.)
Parker, S. G. (See Watt, William G., assignor.)
Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
Parrack, Harry H. (See Wittman, F. M., and Parrack.)
Partz, Victor A., Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn. Motor circuit. 2,157,430; May 9.
Patent and Licensing Corporation, The. (See van Hulst, J., and van Leeuwen, assignors.)
Pavitt, Harry A., Lockport, N. Y., assignor to Simonds Saw and Steel Co., Fitchburg, Mass. Hack saw steel. 2,158,036; May 9.
Payne, Carman G., Olathe, Kans., assignor of one-half to F. L. Carswell, Kansas City, Mo. Water check for drainage ditches. 2,157,671; May 9.
Pease, C. F., Company, The. (See Brunk, Harold J., assignor.)
Penick, Arthur J. (See Penick, Kirby T. and A. J.)
Penick, Kirby T. and A. J., Houston, Tex. Combined tubing head and braden head. 2,157,496; May 9.
Penniman, William B. D., Baltimore, Md. Oil retainer. 2,157,626; May 9.
Pennsylvania Railroad Company. (See Fildes, Frederick K., assignor.)
Penrose, Irving L. (See Penrose, William R. and I. L.)
Penrose, William R. and I. L., Pasadena, Calif. Draining frying pan. 2,157,303; May 9.
Pepper, Byron J., Fort Wayne, Ind., assignor, by mesne assignments, to The Wayne Pump Company. Price and quantity indicating counter. 2,157,627; May 9.
Peters, John G. (See Cantrell, T. L., and Peters.)
Pethick, Ford C., Scranton, Pa. Lamp changer. 2,157,563; May 9.
Petitcolas, Pierre, Rouen, assignor to Compagnie Nationale de Matières Colorantes et Manufactures de Produits Chimiques du Nord Réunies, Etablissements Kuhlmann, Paris, France. Monoazo dyes of the xanthone series and making them. 2,157,431; May 9.
Petty, William S., assignor of two-thirds to R. and W. Young, Denver, Colo. Marking machine. 2,157,497; May 9.
Petz, Albert. (See Winkeler, H., and Petz.)
Peuthert, Wilhelm, Berlin-Britz, assignor to Franz Seiffert & Co., Aktiengesellschaft, Berlin-Eberswalde, Germany. Expansion bend. 2,157,564; May 9.
Pexton, Stuart, W. K. Hutchison, and F. M. Birks, London, assignors to The Gas Light & Coke Company, Westminster, London, England. Treatment of gases with adsorbent solids. 2,157,565; May 9.
Pflasterer, George R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track gauge and alignment detector. 2,158,013; May 9.
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. 2,158,037; May 9.
Phelps Dodge Copper Products Corporation. (See Beach, Harold K., assignor.)
Phelps Dodge Copper Products Corporation. (See Zink, George W., assignor.)
Phelps, Henry V., Nitta Yuma, Miss. Foot actuated switch structure. 2,157,942; May 9.
Phinney, Robert M., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,157,864; May 9.
Piazze, Thomas E., assignor, by mesne assignments, to Marshall & Ilsley Bank, Milwaukee, Wis. Joining sheets. 2,157,732; May 9.
Pierce, Leslie F., Lebanon, Kans. Nut lock. 2,157,672; May 9.
Pillsbury Flour Mills Company. (See Harrel, C. G., and Lindert, assignors.)
Pinter, Joseph, Jr. (See Pinter, Joseph, Sr., and Joseph, Jr.)
Pinter, Joseph, Sr., and J., Jr., Milwaukee, Wis. Convertible trailer-boat. 2,157,186; May 9.
Pintsch, Julius, Kommanditgesellschaft. (See Dillenbach, Walter, assignor.)
Pisciotta, Frank, St. Albans, N. Y. Hair curler. 2,157,244; May 9.
Pitar, Adolph, Brooklyn, and O. Dahloff, Jamaica, N. Y. Combined bottle closure and comb wiper. 2,157,432; May 9.
Pittman, Ralph R., and C. H. Walsh, Pine Bluff, Ark. Electric cut-out. 2,157,215; May 9.
Pittsburgh Annealing Box Company. (See Deahl, Kenneth J., assignor.)
Pittsburgh Plate Glass Company. (See Cady, George H., assignor.)
Pittsburgh Plate Glass Company. (See Jollie, Andrew, assignor.)
Pittsburgh Plate Glass Company. (See Muskat, I. E., and Cady, assignors.)
Plaskon Company. (See Jeffery, J. H., and Matt, assignors.)
Plotkin, Oscar H., assignor to S. Dresner & Son, Inc., Chicago, Ill. Hand luggage. 2,157,833; May 9.
Pneumatic Scale Corporation. (See Schroeder, Arthur C., assignor.)
Pollard, Nedd C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and means for inserting fastenings. 2,157,216; May 9.
Pomona Products Company. (See Smith, John B., assignor.)
Pongratz, Alfred, Graz, Germany, assignor to H. Reichhold, Detroit, Mich., doing business as Reichhold Chemicals. Producing phthalic anhydride. 2,157,965; May 9.
Porter, Albert N., assignor to J. F. Darby, Tulsa, Okla. Pumping rig. 2,157,628; May 9.

Porter, Samuel C., Ogden, Utah. Safetypin. 2,157,433; May 9.

Pothier, Paul, and E. Vigneault, Trois-Rivieres, Quebec, Canada. Oil burner. 2,157,265; May 9.

Pott, Friedrich, assignor to Mercedes Büromaschinen-Werke Aktiengesellschaft, Benshausen, Thuringia, post office Zella-Mehlis, Germany. Calculating machine. 2,157,459; May 9.

Potter, Howell, assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing. 2,157,098; May 9.

Potter, James L., Iowa City, Iowa. Oscillator circuit. 2,157,434; May 9.

Potter, Joel S., Valley Cottage, assignor to L. Wilputte, New Rochelle, N. Y. Coke oven door machinery. 2,157,566; May 9.

Potter, Joel S., West Nyack, assignor to L. Wilputte, New Rochelle, N. Y. Coke oven door and door machinery. 2,157,567; May 9.

Potter, Joel S., West Nyack, assignor to L. Wilputte, New Rochelle, N. Y. Coke oven door. 2,157,568; May 9.

Potter, Joel S., West Nyack, assignor to L. Wilputte, New Rochelle, N. Y. Self-sealing coke oven door. 2,157,569; May 9.

Potter, Philip J. (See Darby, E. R., Barera, and Potter.)

Power Patents Company. (See Morgan, J. D., and Lowe, assignors.)

Pratt, John R. (See Jewel, P. W., and Pratt.)

Prendergast, Edmund J., Delray, Fla., assignor, of one-half to E. B. H. Tower, Jr., Milwaukee, Wis. Beach maintaining apparatus and a beach maintaining method. 2,158,046; May 9.

President and Directors of the Manhattan Company, trustee. (See Page, John E.)

Pressed & Welded Steel Products Company. (See Haskin, Walter E., assignor.)

Price, Earl E., assignor to G. H. Tennant Company, Minneapolis, Minn. Abrading roll. 2,158,014; May 9.

Priestley, William J., New Rochelle, N. Y., assignor to Electro Metallurgical Company. Making cast iron. 2,157,390; May 9.

Probst, Karl K., Toledo, Ohio. Vehicle construction. 2,157,773; May 9.

Productive Inventions, Inc. (See Anderson, John W., assignor.)

Pulaski, Frank L., Sherwood, Oreg. Thermionic microphone. 2,157,719; May 9.

Pullins, Atwood V., assignor of one-half to C. Hipsh, Kansas City, Mo. Loom. 2,157,304; May 9.

Purdue Research Foundation. (See Johnson, Kenneth, assignor.)

Pure Oil Company, The. (See Schutt, Hermann C., assignor.)

Pure Oil Company, The. (See Sutton, Earl D., assignor.)

Pure Oil Company, The. (See Wagner, Cary R., assignor.)

Purifoy, George R., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,157,917; May 9.

Qunker Manufacturing Company. (See Howard, David J., assignor.)

Quanquin, Bernard. (See Dessévre, J., Durepaire, and Quanquin.)

Quinlan, Hollis J., East Cleveland, assignor of one-half to H. Stratford, Cleveland, Ohio. Commercial package. 2,157,740; May 9.

Radio Corporation of America. (See Black, William A., assignor.)

Radio Corporation of America. (See Blessing, G. W., and Guedon, assignors.)

Radio Corporation of America. (See Brown, George H., assignor.)

Radio Corporation of America. (See Clough, Newsome H., assignor.)

Radio Corporation of America. (See Dimmick, Glenn L., assignor.)

Radio Corporation of America. (See Foster, Dudley E., assignor.)

Radio Corporation of America. (See George, R. H., Heim, and Hammond, assignors.)

Radio Corporation of America. (See Grundmann, G. L., and Allen, assignors.)

Radio Corporation of America. (See Holst, Paul F. G., assignor.)

Radio Corporation of America. (See Kellogg, Edward W., assignor.)

Radio Corporation of America. (See Koch, Winfield R., assignor.)

Radio Corporation of America. (See Lindenblad, Nils E., assignor.)

Radio Corporation of America. (See Linder, Ernest G., assignor.)

Radio Corporation of America. (See Maloff, Ioury G., assignor.)

Radio Corporation of Amrica. (See Roberts, Walter V., assignor.)

Radio Corporation of America. (See Treacy, Cyril S., assignor.)

Radio Corporation of America. (See Wright, George M., assignor.)

Radio Corporation of America. (See Zworykin, V. K., and Malter, assignors.)

Ralston, Anderson W., and W. M. Selby, assignors to Armour and Company, Chicago, Ill. Diester of unsaturated glycols and preparing the same. 2,157,144; May 9.

Rankin, William K., Landsdowne, Pa., assignor to General Electric Company. Uniting metals. 2,157,918; May 9.

Rauch, George C., Salinas, Calif. Combination material mixer and mold. 2,157,217; May 9.

Rawson, Emanuel, Chicago, Ill., assignor to The Superheater Company, New York, N. Y. Valve for feed water heaters. 2,157,774; May 9.

Raymond, Gwynne, Oklahoma City, Okla. Spray extractor. 2,157,305; May 9.

Raynolds, James Albert, Jr., Elmhurst, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Apparatus for making tablets. 2,157,570; May 9.

Raytheon Manufacturing Company. (See Crout, Prescott D., assignor.)

Reagan, Leon S., assignor to Webster Engineering Company, Tulsa, Okla. Motor modulator. 2,157,245; May 9.

Reese, Frank L., Philadelphia, Pa. Twin contact plug. 2,157,919; May 9.

Reichhold Chemicals. (See Pongratz, Alfred.)

Reichhold, Helmuth. (See Pongratz, Alfred, assignor.)

Reid, Alexander C., and H. J. McCreary, assignor to Leich Electric Co., Genoa, Ill. Synchronous motor. 2,157,435; May 9.

Reid, George C. (See Hothersall, J. M., and Reid.)

Reid, James S. (See McKinney, Carlos J., assignor.)

Reinecke, Rudolf. (See Burkhardt, W., and Reinecke.)

Reinecke, Rudolf, Berlin-Lankwitz, and W. Burkhardt, Berlin-Grunewald, assignors to B. Berghaus, Berlin-Lankwitz, Germany. Apparatus for the production of metallic coatings. 2,157,498; May 9.

Reisinger, George, and J. Farkas, Rochester, N. Y. Liquid dispenser. 2,157,966; May 9.

Renken, Eno F., Dallas, Tex. Condensing fluids. 2,157,436; May 9.

Repasy, Steve, Los Angeles, Calif. Lawn and garden tool. 2,157,346; May 9.

Reppe, Walter, and O. Hecht, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of vinyl ethers derived from carbohydrates. 2,157,347; May 9.

Reppe, Walter, and O. Hecht, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of aliphatic vinyl ethers by means of acetylene. 2,157,348; May 9.

Repper, Ludwig, Bremen, Germany. Apparatus for the charging of cigarette making machines. 2,157,801; May 9.

Research Corporation. (See Bush, Vannevar, assignor.)

Rethel, Walter, assignor to Arado Flugzeugwerke Gesellschaft mit beschrankter Haftung, Brandenburg (Havel), Germany. Ammunition box. 2,157,306; May 9.

Retschy, Curt, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Fuel valve for internal combustion engines. 2,157,571; May 9.

Rexford, Willis E., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Remotely controllable automatic train coupling system. 2,157,187; May 9.

Riccio, Anthony, Brooklyn, N. Y., assignor to Vulcan Products Corporation. Tire retreading device. 2,157,967; May 9.

Richards, Emerson. (See Walden, Samuel L., assignor.)

Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Cloth guiding device. 2,157,920; May 9.

Richter, Carl R., Schenectady, N. Y. Torch for welding, cutting, and the like. 2,157,269; May 9.

Richwine, Hugh K., Liberal, Kans. Self-propelled combined earth scooping and conveying-off apparatus. 2,157,968; May 9.

Ridge, Raymond J., Yeadon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,157,145; May 9.

Ridgely, James A., Cincinnati, Ohio, assignor to W. J. Holliday & Co., Indianapolis, Ind. Free machining open hearth steel. 2,157,673; May 9.

Ridgely, James A., Cincinnati, Ohio, assignor to W. J. Holliday & Co., Indianapolis, Ind. Manufacturing a free machining case-hardening steel. 2,157,674; May 9.

Riedrich, Gerhard, Krefeld-Forstwald, assignor to Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. Scale-resisting steel alloy. 2,157,146; May 9.

Rieter, Gustave T., Cedarburg, Wis. Foldable ironing board. 2,157,675; May 9.

Rissinger, Frank, Columbia, Pa., Douche nozzle. 2,157,802; May 9.

Roberts, Walter V., Princeton, N. J., assignor to Radio Corporation of America. Velocity measuring device. 2,157,572; May 9.

Robertson, Delmar D., Lansdowne, and G. L. Briggs, Bryn Mawr, assignors to Wilkening Manufacturing Company, Philadelphia, Pa. Packing device. 2,157,865; May 9.

Robertson, Delmar D., Lansdowne, and G. L. Briggs, Bryn Mawr, assignors to Wilkening Manufacturing Company, Philadelphia, Pa. Valve stem packing. 2,157,866; May 9.

Robertson, Delmar D., Lansdowne, and G. L. Briggs, Bryn Mawr, assignors to Wilkening Manufacturing Company, Philadelphia, Pa. Valve stem packing. 2,157,867; May 9.

Robertson, Delmar D., Lansdowne, and G. L. Briggs, Bryn Mawr, assignors to Wilkening Manufacturing Company, Philadelphia, Pa. Packing valve stems and apparatus. 2,157,868; May 9.

Robertson, Eugen C., and B. R. Hamman, assignor to Decatur Garment Company, Decatur, Ill. Woman's dress. 2,157,460; May 9.

Robinson, Raleigh W., Galesburg, Ill. Coaster. 2,157,461; May 9.

Robinson, Walter W., Chicago, Ill. Pronged-device connector. 2,157,188; May 9.

Robinson, William B., et al. (See Hansen, Louis E., assignor.)

Rogers, Harry G., Wellington, New Zealand. Printing press. 2,157,803; May 9.

Röhm, Otto, Darmstadt, Germany. Producing hides with the aid of mold tryptases. 2,157,969; May 9.

Roiph, Samuel W., Shaker Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery with unit insulation. 2,157,629; May 9.

Root, Ralph R., Lakewood, Ohio. Dusting machine. 2,157,630; May 9.

Rose, Alfred G., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Apparatus for feeding plastic material in bar form, such as toffee in wrapping machines. 2,157,676; May 9.

Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)

Rose, Edwin L. (See Doe, T. B., and Rose.)

Rosenhauer, Charles G., Brooklyn, assignor of one-half to A. E. Lackenbach, New York, N. Y. Optical system for stereoscopic motion picture production and projection. 2,157,099; May 9.

Rosner, Michael W., St. Paul, Minn. Propeller governor. 2,157,349; May 9.

Ross, Donald M., Granger, Wash. Closure device. 2,157,218; May 9.

Rossman, Allen M., Wilmette, Ill. Electric locomotive. 2,157,928; May 9.

Rossman, Peter F., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,157,499; May 9.

Roth, August A., Baltimore, Md. Motor vehicle fender. 2,157,147; May 9.

Rowland, Davidge H., Baltimore, Md., assignor to Locke Insulator Corporation. Glazed ceramic insulator and the like. 2,157,100; May 9.

Rowland, Thomas C. E., Solihull, and H. Parker, Birmingham, England. Apparatus for delivering liquids and viscous materials. 2,157,970; May 9.

Royal Typewriter Company, Inc. (See Hart, Henry J., assignor.)

Rummel, Reba B., assignor of one-half to A. Hockley, Grayson, Ky. Game device. 2,157,631; May 9.

Runge, Wilhelm, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Receiver for observing two different signals. 2,157,677; May 9.

Rupp, Walter H. (See Mateer, G. L., and Rupp.)

Ruska, Leslie C., Cicero, Ill. Automobile door glass control. 2,157,350; May 9.

Rutherford, Albert, et al. (See Hansen, Louis E., assignor.)

Sadler, Luther, Los Angeles, Calif. Railway crossing. 2,157,246; May 9.

Sadtler, Helena S., Erdenheim, Pa. Combining smocking and needlework designs. 2,157,573; May 9.

Safety Grinding Wheel & Machine Company, The. (See Vance, George E., assignor.)

Salentine, Herbert M., Los Angeles, Calif. Hydraulic pumping jack. 2,157,219; May 9.

Samerdyke, Fred J., Rocky River, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Manufacture of cuprammonium rayon. 2,157,148; May 9.

Samuis, Albert V., Huntington, N. Y. Method of and apparatus for producing foam for fire extinction. 2,158,015; May 9.

Sarber, Frank N. (See Alles, F. W., and Sarber.)

Sargent & Company. (See Carlson, Herman B., assignor.)

Sargent's C. G., Sons Corporation. (See Furbush, Frank L., assignor.)

Sargent's, C. G., Sons Corporation. (See Hall, Richard W., assignor.)

Sarsfield, Myron W., and C. L. Conklin, Graham, Tex. Derrick. 2,157,500; May 9.

Sauser, A.-G. (See Wydler, Hermann, assignor.)

Savage, Gardner C., assignor to The Trane Company, La Cross, Wis. Damper and filter arrangement for air circulating units. 2,157,307; May 9.

Schaad, Raymond E. (See Ipatieff, V., and Schaad.)

Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Apparatus to make metal reinforced loose-leaf paper sheets. 2,157,270; May 9.

Schapiro, Abraham, Chicago, Ill. Beverage. 2,157,632; May 9.

Schapiro, Abraham, Chicago, Ill. Beer and preparing same. 2,157,633; May 9.

Schatzman, George W., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Fender skirt mounting. 2,157,921; May 9.

Scherbaum, Gernhard, Munich, assignor, by mesne assignments, to Alexanderwerk A. Von der Nahmer Aktiengesellschaft, Remscheid, Germany. Grinding mill. 2,157,462; May 9.

Schermerhorn, R. F., et al. (See Wentz, Mark, assignor.)

Schielke, Richard H., Milwaukee, Wis. Refrigerator door. 2,157,678; May 9.

Schlösinger, Josef, assignor to Aktiengesellschaft für Glass industrie vorm. Friedr. Siemens, Neusattl near Elbogen, Czechoslovakia. Roofing. 2,157,189; May 9.

Schmeller, Edward A., Lakewood, assignor of one-third to F. I. Schmeller, Rocky River, and one-third to J. L. Schmeller, Lakewood, Ohio. Aluminum alloys. 2,157,741; May 9.

Schmeller, Emil E., Chewelah, Wash. Concrete wall structure. 2,157,271; May 9.

Schmeller, Frank I., et al. (See Schmeller, Edward A., assignor.)

Schmeller, John L., et al. (See Schmeller, Edward A., assignor.)

Schmid, Julius. (See Millen, Stanley S., assignor.)

Schmidt, August, Jr., Schenectady, N. Y., assignor to General Electric Company. Electric regulating system. 2,157,834; May 9.

Schmidt, Carl L. (See Christy, George C., assignor.)

Schmidt, Grayson, Fort Kamehameha, Hawaii, assignor to G. B. Finnegan, Jr., Cove Place, Mountain Lakes, N. J. Fire control for machine guns. 2,157,575; May 9.

Schmidt, Henry F., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Making turbine elements. 2,157,679; May 9.

Schmidt, Louis. (See Streckfus, J., Schmidt, and Godwin.)

Schneider, Wilhelm, and E. Bauer, Dessau in Anhalt, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Sensitizing dyes for photographic emulsions. 2,157,351; May 9.

Schneider, Wilhelm, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement of oscillation crystals. 2,157,576; May 9.

Scholl, Harry S., Chicago, Ill., assignor to F. H. Hill Company, Inc., Cleveland, Ohio. Casket. 2,157,308; May 9.

Schroeder, Arthur C., Syracuse, N. Y., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Weighing machine. 2,157,577; May 9.

Schulze, Gustav A., Brevard, N. C. Mapping device. 2,157,634; May 9.

Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,157,247; May 9.

Schutt, Hermann C., Mount Vernon, N. Y., assignor, by mesne assignments to The Pure Oil Company, Chicago, Ill. Converting hydrocarbons. 2,157,220; May 9.

Schwaiger, Max, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer. 2,157,922; May 9.

Schwitzer & Conrad, Inc. (See Triplett, Hugh A., assignor.)

Scott, Leland L., Kansas City, Mo. Internal combustion engine. 2,157,742; May 9.

Scott, Richard H. (See Billington, J. E., and Scott.)

Scovill Manufacturing Company. (See Partz, Victor A., assignor.)

Seaburg, Frank H. (See McCann, J. H., and Seaburg.)

Seeger Refrigerator Company. (See Swedman, E., and Stifter, assignors.)

Seiffert, Franz, & Co., Aktiengesellschaft. (See Peuthert, Wilhelm, assignor.)

Selby, William M. (See Ralston, A. W., and Selby.)

Sessions, William C., Lakewood, assignor to The Weather head Company, Cleveland, Ohio. Brake. 2,157,733; May 9.

Sette, William J. (See Albersheim, W. J., and Sette.)

Settle, Walter A., Tulsa, Okla. Nutcracker. 2,157,501; May 9.

Severin, Edwin, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Microphone. 2,157,720; May 9.

Seymour, George W., Cumberland, Md., assignor to Celanese Corporation of America. Artificial material and making same. 2,157,190; May 9.

Sharp, John E. (See Armitage, J. L., and Sharp.)

Sharp, Robert H. (See Stilson, H. A., and Sharp.)

Shaw, Clarence W., Detroit, Mich., assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio. Venting device. 2,157,635; May 9.

Shaw, Edward T., assignor to Shaw Transmission Co., Pittsfield, Mass. Power transmission mechanism. 2,157,352; May 9.

Shaw, Henry B., Fort Smith, Ark. Motor control system for a traffic signal. 2,157,636; May 9.

Shaw Transmission Co. (See Shaw, Edward T., assignor.)

Shehan, William E., Los Angeles, Calif. Venetian blind operating mechanism. 2,157,637; May 9.

Shell Development Company. (See van Peski, A. J., and Moser, assignors.)

Shell Development Company. (See Welke, Ferdinand G., assignor.)

Shell Development Company. (See Zublin, Ernest W., assignor.)

Shepherd, Thomas L., London, England. Rubber process and product. 2,157,463; May 9.
Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. X-bar for automobile frames. 2,157,353; May 9.
Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Embossing metal plates. 2,157,354; May 9.
Shields, Charles B., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Approach control apparatus for railway signaling systems. 2,158,016; May 9.
Shipley, Robert M., Jr., Los Angeles, Calif. Dark field illuminator. 2,157,437; May 9.
Shorter, Sydney A. (See Williams, T. C., and Shorter.)
Shroyer, Jacob L., Oak Park, Ill. Pedal depressor. 2,157,355; May 9.
Sibley, William H., St. Paul, Minn. Back mold wiper. 2,157,356; May 9.
Siemens Brothers & Company Limited. (See Sutton, George W., assignor.)
Siemens & Halske, Aktiengesellschaft. (See Müller, Kurt, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Nehls, Walter, assignor.)
Siesel, William M., Verona, N. J. Torque release wrench. 2,157,574; May 9.
Siess, Friedrich A. (See Neesen, O., and Siess.)
Signal Service Corporation. (See Luce, Richard W., assignor.)
Simonds Saw and Steel Co. (See Pavitt, Harry A., assignor.)
Singer Manufacturing Company, The. (See Chason, Daniel H., assignor.)
Sinnett, John B., assignor to Howell Electric Motors Company, Howell, Mich. Method of and means for cooling motors. 2,157,191; May 9.
Slade, Starkie N., Sr., Durham, N. C. Plant protector. 2,157,502; May 9.
Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Make-alive electrode. 2,157,923; May 9.
Slunder, Charles J. (See Work, H. K., and Slunder.)
Smede, Lloyd, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge device. 2,157,924; May 9.
Smidth, F. L., & Company. (See Borch, Niels S., assignor.)
Smith, A. O., Corporation. (See Sherman, Donald W., assignor.)
Smith, A. O., Corporation. (See Straty, Stephen, assignor.)
Smith, Arthur E., Los Angeles, Calif. Ampoule syringe. 2,157,503; May 9.
Smith, Alfred R., Forest Hills, assignor to Combustion Engineering Company, Inc., New York, N. Y. Drying apparatus. 2,157,775; May 9.
Smith, Cyril S., Cheshire, and E. W. Palmer, assignors to The American Brass Company, Waterbury, Conn. Copper base alloy. 2,157,149; May 9.
Smith, Floyd, assignor to Irving Air Chute Co. Inc., Buffalo, N. Y. Parachute harness. 2,157,504; May 9.
Smith, Floyd, assignor to Irving Air Chute Co., Inc., Buffalo, N. Y. Parachute pack. 2,157,505; May 9.
Smith, Gerald F., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Power system. 2,157,869; May 9.
Smith, John B., assignor to Pomona Products Company, Griffin, Ga. Automatic weighing and rejecting machine. 2,158,023; May 9.
Smith, John W., assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing. 2,157,101; May 9.
Smith, Leonard C., East Chicago, Ind. Building block and assembly thereof. 2,157,992; May 9.
Smith's, John E., Sons Company. (See Van Hooydonk, Adrian C., assignor.)
Smitt, Henry A., Fort Lewis, Wash. Power transmission mechanism. 2,157,465; May 9.
Snader, Howard B., Temple, assignor to Vanity Fair Silk Mills, Reading, Pa. Elastic strain absorber with lace stitch. 2,157,464; May 9.
Sneed, John, Grosse Pointe Shores, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, trustee for Steeldraulic Brake Corporation. Brake. 2,157,272; May 9.
Snell, Samuel A., assignor to The American-National Company, Toledo, Ohio. Velocipede structure. 2,157,971; May 9.
Snell, Samuel A., assignor to The American-National Company, Toledo, Ohio. Velocipede structure. 2,157,972; May 9.
Société Anonyme des Etablissements Cuttat. (See Nilsson, Robert S., assignor.)
Société Anonyme d'Etudes des Brevets et Procédés Coanda-Société Coanda. (See Coanda, Henri, assignor.)
Societe Anonyme Francaise du Ferodo. (See Bertrand, Lucien, assignor.)
Société Générale Métallurgique de Hoboken. (See Cuvelliez, Francois, assignor.)
Society of Chemical Industry in Basle. (See Kern, Walter, assignor.)
Socony-Vacuum Oil Company. (See Baker, Ronald A., assignor.)
Solomons, Mortimer J., New York, N. Y. Hat retaining device. 2,157,835; May 9.
Somers, Francis P., Upper Darby, assignor to Aluminum Company of America, Pittsburgh, Pa. Relief of stress cracking in aluminum-magnesium alloys. 2,157,150; May 9.
Soubier, Leonard D., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Stenciling apparatus. 2,157,638; May 9.
Sowers, Nelson E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High frequency circuit and apparatus. 2,157,870; May 9.
Sparks, Sherman P., Mount Olive, Ill. Device for counting bacteria and the like. 2,157,438; May 9.
Spatta, George, assignor to Clark Equipment Company, Buchanan, Mich. Weld trimming apparatus. 2,157,680; May 9.
Spencer, Howard F., Pittsburgh, and W. A. Morton, Mount Lebanon, assignors to Amco, Incorporated, Pittsburgh, Pa. Continuous heating furnace. 2,157,221; May 9.
Sperry Gyroscope Company. (See Braddon, Frederick D., assignor.)
Sperry Gyroscope Company. (See Thompson, Norman W., assignor.)
Sprott, James T. (See Visser, G. A., Deremer, and Sprott.)
Stackhouse, Edwin H., West Philadelphia, Pa. Tire grooving tool. 2,157,151; May 9.
Staggers, William F., Mannington, W. Va. Safety hitch. 2,157,639; May 9.
Stancil, Fred C., Altoona, assignor to Alabama Tractor and Plow Company, Walnut Grove, Ala. Tractor cultivator. 2,157,273; May 9.
Standard Brands Incorporated. (See Webber, G. R., and Baxter, assignors.)
Standard Brands Incorporated. (See Webber, G. R., Fleischer, and von Hofe, assignors.)
Standard Oil Company. (See Page, James M., Jr., assignor.)
Standard Oil Company of California. (See Humphreys, Robert L., assignor.)
Standard Oil Development Company. (See Archibald, Francis M., assignor.)
Standard Oil Development Company. (See Buc, Hyym E., assignor.)
Standard Oil Development Company. (See Mateer, G. L., and Rupp, assignors.)
Standard Pressed Steel Co. (See Hallowell, H. T., and Bennett, assignors.)
Stanley Works, The. (See Stowell, Austin L., assignor.)
Starring, David S., Greens Farms, and G. B. Horn, Fairfield, assignors to Wheeler Insulated Wire Company, Bridgeport, Conn. Wire drawing. 2,158,038; May 9.
Stasinski, Joseph. (See Biskup, Leopold, assignor.)
Steeldraulic Brake Corporation. (See Sneed, John.)
Steinberger, Irwin, assignor to Aris Gloves, Inc., New York, N. Y. Glove. 2,157,836; May 9.
Steinert, Emil F., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Movable cord alternating-current arc welder. 2,157,871; May 9.
Steinkamp, Albert L., Fort Wayne, Ind. Variable gear. 2,157,776; May 9.
Stemen, William R. (See Urbain, O. M., and Stemen.)
Steudel, Eberhard. (See Drewell, P., and Steudel)
Stewart & McGuire, Inc. (See Hoban, Fairfield W., assignor.)
Stifter, Louis. (See Swedman, E., and Stifter.)
Stilson, Herbert A., Chicago, and R. H. Sharp, Marengo, Ill.; said Sharp assignor to said Stilson. Animal trap. 2,157,222; May 9.
Stoddard, Edgar S. (See Walker, F. A., and Stoddard.)
Stoddard, Ralph N., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,157,925; May 9.
Stoffel, Lester L., Lakewood, assignor to Ohio Carbon Company, Cleveland, Ohio. Resistor. 2,157,777; May 9.
Stone, Joseph H., Brockton, Mass. Shoe last. 2,157,439; May 9.
Stone, S. B., et al. (See Wentz, Mark, assignor.)
Storey, Daniel H., Wausau, Wis. Trailer hitch. 2,157,681; May 9.
Stowell, Austin L., assignor to The Stanley Works, New Britain, Conn. Collable measuring rule. 2,158,024; May 9.
Stratford, Herbert. (See Quinlan, Hollis J., assignor.)
Straty, Stephen, assignor to A. O. Smith Corporation, Milwaukee, Wis. Alloy-lined tubular connection for vessels. 2,157,357; May 9.
Straubel, C. W., et al. (See Straubel, Frederick L. G., assignor.)
Straubel, Frederick L. G., assignor of one-eighth to O. C. Straubel, Green Bay, Wis., and two-eighths to C. W. Straubel, Youngstown, Ohio. Index card carrier. 2,157,358; May 9.
Straubel, O. C., et al. (See Straubel, Frederick L. G., assignor.)
Streckfus, John L. Schmidt, and H. Godwin, Baltimore, Md. Printer's roller. 2,157,440; May 9.
Sturtevant, B. F., Company. (See Anderson, Samuel M., assignor.)

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Power system and control therefor. 2,157,926; May 9.
Sulflo Corporation of America. (See Abrams, Victor R., assignor.)
Sullivan, Frank J., Oshkosh, Wis. Bladed structure and producing same. 2,157,441; May 9.
Sullivan Machinery Company. (See Curtis, John C., assignor.)
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Sulzer Frères, Société Anonyme. (See Retschy, Curt, assignor.)
Superheater Company, The. (See Armacost, Wilbur H., assignor.)
Superheater Company, The. (See Rawson, Emanuel, assignor.)
Sutton, Earl D., Newark, Ohio, assignor to The Pure Oil Company, Chicago, Ill. Sweetening hydrocarbon oils. 2,157,223; May 9.
Sutton, George W., Merton Park, London, assignor to Siemens Brothers & Company Limited, London, England. Circuit arrangement for telephone systems. 2,157,927; May 9.
Swanson, Axel R., Chicago, Ill. Boring and threading device. 2,157,248; May 9.
Swarthout, Stanley H., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Universal motor speed governor. 2,157,640; May 9.
Swearingen, Clair V., Chattanooga, Tenn. Salt solution feeding apparatus. 2,157,466; May 9.
Swedman, Enoch, and L. Stifter, assignors to Seeger Refrigerator Company, St. Paul, Minn. Adjustable shelf bracket and supporting standard. 2,157,309; May 9.
Sweeny, Raymond V., Freeport, N. Y. Time controlled feeding device for domestic pets. 2,157,682; May 9.
Takase, Robert H., Honolulu, Hawaii. Combined print washing and fixing device. 2,157,804; May 9.
Talon, Inc. (See Carlile, Alfred E., assignor.)
Tapman, Samuel F., Richmond Hill, N. Y. Building construction. 2,157,359; May 9.
Tee Up Limited. (See Hays, Rex B., assignor.)
Te Grotenhuis, Theodore A. (See Allen, R. W., and Te Grotenhuis.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Drewell, P., and Steudel, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Geiger, Max, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hollmann, Hans E., assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meggenhofen, Eduard M., assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Runge, Wilhelm, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schneider, Wilhelm, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Severin, Edwin, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Wilhelm, Karl, assignor.)
Teletype Corporation. (See Zenner, Raymond E., assignor.)
Temple, George W., New York, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Glass applicator cap. 2,157,743; May 9.
Tennant, G. H., Company. (See Price, Earl E., assignor.)
Tennessee Eastman Corporation. (See Othmer, Donald F., assignor.)
Tenney, Perry L., Lansing, and B. Cataline, Flint, assignors to General Motors Corporation, Detroit, Mich. Change-speed control. 2,157,249; May 9.
Thege, Edvin O. P., and J. H. W. Julius, Stockholm, assignors to Aktiebolaget Atlas Diesel, Sickla, Sweden. Reversible internal-combustion engine. 2,157,578; May 9.
Thew Shovel Company. (See Zellman, Roy H., assignor.)
Thompson, Jay W., assignor to Thompson Manufacturing Company, Visalia, Calif. Scraper. 2,157,805; May 9.
Thompson, Joseph J. (See Hasselhorn, W. C., and Thompson.)
Thompson Manufacturing Company. (See Thompson, Jay W., assignor.)
Thompson, Norman W., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Correction device for gyrocompasses. 2,157,360; May 9.
Thorpe, Forest H. (See Leibensperger, C. I., and Thorpe.)
Thürlings, Hermann, assignor to Hanseiia Albert Henkel K. G., Viersen, Germany. Machine for molding and embossing sweets. 2,157,467; May 9.
Thürlings, Hermann, Viersen, Germany. Sheeting of plastic substances such as sugar confectionery. 2,157,192; May 9.
Tilton, Charles, Fort Madison, Iowa. License plate holder. 2,157,806; May 9.
Tingle, John K., Connersville, Ind. Carpet cleaning machine. 2,157,250; May 9.
Tinnerman, Albert H. (See Tinnerman, George A., assignor.)
Tinnerman, George A., Rocky River, assignor to A. H. Tinnerman, Cleveland, Ohio. Handle, knob, or like construction. 2,157,251; May 6.
Tinnerman, George A., Rocky River, assignor to A. H. Tinnerman, Cleveland, Ohio. Door dovetail construction. 2,157,641; May 9.
Tobis, Carlos. (See Nowak, P., Tobis, and Hofmeier.)
Tourot, Emma E., Paris, France. Dispensing device. 2,157,778; May 9.
Tower, Edwin B. H., Jr. (See Prendergast, Edmund J., assignor.)
Trane Company, The. (See Savage, Gardner C., assignor.)
Transit Mixers, Inc. (See O'Reilly, Francis, assignor.)
Treacy, Cyril S., Scarsdale, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Light-sensitive cell manufacture. 2,157,506; May 9.
Treo Company. (See Metz, Samuel T., assignor.)
Trinity College, Trustees of. (See Hutt, R. B. W., and Abild, assignors.)
Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Electrical fuse. 2,157,152; May 9.
Triplett, Ray L. (See Wenger, Floyd E., assignor.)
Troche, Herman J., assignor to American Coach and Body Company, Cleveland, Ohio. Niggerhead. 2,157,153; May 9.
Tröger, Richard, Berlin-Zehlendorf-Mitte, Germany, assignor to General Electric Company. Surge generator. 2,157,929; May 9.
Trout, Walter C., assignor to Lufkin Foundry & Machine Company, Lufkin, Tex. Wire line swing. 2,157,442; May 9.
Truhlsen, Henry. (See Brandert, Henry H. and L. J.)
Trussell, Emory A., Milwaukee, Wis. Binder. 2,157,872; May 9.
Tucker, Irwin W., Washington, D. C. Fastening device. 2,157,837; May 9.
Tweed, Frederick H., assignor to The Dole Valve Company, Chicago, Ill. Soda fountain. 2,157,154; May 9.
Ubertype Aktiengesellschaft of Kubli House. (See Wenczler, Lajos, assignor.)
Ulrich, Heinrich, and P. Koerding, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing urethane substances containing carboxyl or sulphonic acid groups. 2,157,362; May 9.
Unger, Paul O., Elmhurst, assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,157,721; May 9.
Uniflow Pump Company. (See Murray, Howard S., assignor.)
Union Carbide and Carbon Corporation. (See Chaney, N. K., and Kiefer, assignors.)
Union Carbide and Carbon Corporation. (See George, Harry S., assignor.)
Union Switch & Signal Company, The. (See Alriq, Hubert, assignor.)
Union Switch & Signal Company, The. (See Hufnagel, Andrew, assignor.)
Union Switch & Signal Company, The. (See Pflasterer, George R., assignor.)
Union Swith & Signal Company, The. (See Shields, Charles B., assignor.)
United American Metals Corporation. (See Jung, Albert H., assignor.)
United Merchants & Manufacturers, Inc. (See Bulford, Murray N., assignor.)
United Shoe Machinery Corporation. (See Elliott, H. E., and Choice, assignors.)
United Shoe Machinery Corporation. (See Engel K., and Kinney, assignors.)
United Shoe Machinery Corporation. (See Pollard, Nedd C., assignor.)
U. S. Electrical Motors, Inc. (See Myers, T. G., and Mason, assignors.)
United States Gauge Company. (See Whipple, Jack V., assignor.)
Universal Oil Products Company. (See Grosse, Aristid V., assignor.)
Universal Oil Products Company. (See Grosse, A. V., and Mavity, assignors.)
Universal Oil Products Company. (See Grosse, A. V., and Morrell, assignors.)
Universal Oil Products Company. (See Ipatieff, V., and Schaad, assignors.)
Universal Oil Products Company. (See Morrell, Jacque C., assignor.)
Universal Oil Products Company. (See Morrell, J. C., and Grosse, assignors.)
Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Producing materials for removal of certain halide ions from water. 2,157,507; May 9.
Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Recovery of iodides, as iodine from water. 2,157,508; May 9.
Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. The removal of fluorides from water. 2,157,509; May 9.
Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Effecting anion exchange. 2,157,510; May 9.
Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Effecting anion exchange. 2,157,511; May 9.
Urge, Lester, Youngstown, Ohio. Motor vehicle light. 2,157,361; May 9.
Urquhart, George G., Cynwyd, Pa. Apparatus for and method of recovering gasoline and the like. 2,157,579; May 9.

V. Baumbach, Hans H. (See Gericke, P. H., v. Baumbach, and Berndt.)
Vaco Products, Inc. (See Durham, Hobart N., assignor.)
Vance, George E., assignor to The Safety Grinding Wheel & Machine Company, Springfield, Ohio. Manufacturing grinding wheels of abrasive material. 2,157,779; May 9.
Vanderbilt, Byron M., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Catalytic reduction of nitro compounds. 2,157,391; May 9.
Vanderzee, Harry H., Michigan City, Ind., assignor to Westinghouse Electric Elevator Company, Jersey City, N. J. Lock for elevator doors. 2,157,930; May 9.
Van Dorn, Herbert E., Chicago, Ill., assignor to The Dornvan Corporation. Draft rigging. 2,157,363; May 9.
Van Dusen, Charles H., Jr. (See Cooper, H. S., and Van Dusen.)
Van Duyn, Adrianus, Rotterdam, Netherlands. Apparatus for measuring predetermined quantities by weighing. 2,157,197; May 9.
Van Dorn, Herbert E., Chicago, Ill., assignor to The Dornvan Corporation. Door operating means for electric couplers. 2,157,364; May 9.
Van Hooydonk, Adrian C., assignor to John E. Smith's Sons Company, Buffalo, N. Y. Meat cutting machine. 2,157,780; May 9.
Van Hulst, Jan, and G. H. van Leeuwen, Amsterdam, Netherlands, assignors to The Patent and Licensing Corporation, New York, N. Y. Solidifying soils. 2,158,025; May 9.
Van Leeuwen, Gerrit H. (See van Hulst, J., and van Leeuwen.)
Vanity Fair Silk Mills. (See Snader, Howard B., assignor.)
Van Peski, Adrianus J., and F. R. Moser, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Extreme pressure lubricants. 2,157,873; May. 9.
Van Zale, George, Bay City, Mich. Tire removing tool. 2,157,443; May 9.
Vaughn, Thomas H., Niagara Falls, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Producing 1,4-ethylenic glycols. 2,157,365; May 9.
Victor, John H., Wilmette, and J. B. Victor, Oak Park, assignors to Victor Manufacturing & Gasket Company, Chicago, Ill. Reinforced laminated gasket. 2,157,102; May 9.
Victor, Joseph B. (See Victor, John H. and J. B.)
Victor Manufacturing & Gasket Company. (See Victor, John H. and J. B., assignors.)
Victor Metal Products Corporation. (See Temple, George W., assignor.)
Vigneault, Edmond. (See Pothier, P., and Vigneault.)
Vigroux, Joseph J. P., Ivry-sur-Seine, France. Closed body for automotive vehicles. 2,157,366; May 9.
Visser, George A., F. E. Doremer, and J. T. Sprott, assignors to Oldberg Mfg. Co., Detroit, Mich. Rolling-in machine. 2,157,252; May 9.
Voit, W. J. (See Voit, W. J., and Weimer, assignors.)
Voit, William J., Los Angeles, and L. C. Weimer, Southgate, assignors, by mesne assignments, to W. J. Voit, Los Angeles, Calif. Making a reinforced ball. 2,157,580; May 9.
Voith, J. M. (See Kieser, Hugo, assignor.)
Vollrath, Paul, Cologne-Ehrenfeld, Germany. Device for mixing, sifting, and kneading. 2,157,683; May 9.
Von Hofe, George W. (See Webber, G. R., Fleischer, and von Hofe.)
Vosler, Arthur E., Medina, assignor to Niagara Sprayer and Chemical Co., Inc., Middleport, N. Y. Turning table. 2,157,642; May 9.
Vrooman, William S., assignor to Baldwin Rubber Company, Pontiac, Mich. Floor covering. 2,158,017; May 9.
Vulcan Products Corporation. (See Riccio, Anthony, assignor.)
Wagner, Cary R., assignor to The Pure Oil Company, Chicago, Ill. Producing motor fuels. 2,157,224; May 9.
Wagner, Cary R., assignor to The Pure Oil Company, Chicago, Ill. Producing motor fuels. 2,157,225; May 9.
Walch, Jacob S., assignor to Baker Manufacturing Co., Springfield, Ill. Scraper. 2,157,311; May 9.
Walden, Samuel L., assignor of one-half to E. Richards, Atlantic City, N. J. Lubricating system for internal combustion engines. 2,157,513; May 9.
Waldron, John, Corporation. (See Warner, S. W., and Case, assignors.)
Walker, Forrest A., Oak Park, and E. S. Stoddard, Berwyn, assignors to Edison General Electric Appliance Company, Inc., Chicago, Ill. Washing apparatus. 2,157,943; May 9.
Waller, Percy H. (See Hopkins, Constant C., assignor.)
Walsh, Carroll H. (See Pittman, R. R., and Walsh.)
Waltham Watch Company. (See Freistadter, Jacob, assignor.)
Walton, Alfred B., Kenmore, assignor to Certain-Teed Products Corporation, New York, N. Y. Process of and apparatus for producing covering material. 2,157,944; May 9.
Walton, George W., Kensington, London, England. Television scanning system. 2,157,468; May 9.
Ward, Jack W., Nassawadox, Va. Circular work attachment. 2,157,310; May 9.
Warner, Donald F., Lynn, Mass., assignor to General Electric Company. Elastic fluid turbine shaft and disk structure and the like. 2,157,838; May 9.
Warner, Sterling W., Somerville, and L. B. Case, assignors to John Waldron Corporation, New Brunswick, N. J. Pneumatic vibrating mechanism. 2,157,367; May 9.
Waterbury Tool Company, The. (See Doe, T. B., and Rose, assignors.)
Waterbury Tool Company, The. (See Grosser, Christian E., assignor.)
Waterous Limited. (See Cole, Lorne A., assignor.)
Watt, William G., assignor of one-half to S. G. Parker, Laramie, Wyo. Ink container and closure. 2,157,512; May 9.
Wayne Pump Company, The. (See Pepper, Byron J., assignor.)
Weathershead Company, The. (See Sessions, William C., assignor.)
Webb, J. A., Belting Co. (See Webb, James A., assignor.)
Webb, James A., assignor to J. A. Webb Belting Co., Inc., Buffalo, N. Y. Machine for sizing leather belts. 2,157,874; May 9.
Webber, George R., Palisades, P. W. Fleischer, Weehawken, and G. W. von Hofe, Bound Brook, N. J., assignors to Standard Brands Incorporated, New York, N. Y. Packaging. 2,157,194; May 9.
Webber, George R., Palisades, and T. R. Baxter, Plainfield, N. J., assignors to Standard Brands Incorporated, New York, N. Y. Packaging. 2,157,193; May 9.
Webster Engineering Company. (See Reagan, Leon S., assignor.)
Weeks, Frank O., Portland, Oreg. Furnace and combustion chamber. 2,157,195; May 9.
Weimer, Leith C. (See Voit, W. J., and Weimer.)
Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machine for forming seams. 2,157,368; May 9.
Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing machine. 2,157,369; May 9.
Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Feeding mechanism for sewing machines. 2,157,370; May 9.
Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Lubricating system for sewing machines and parts thereof. 2,157,371; May 9.
Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Presser foot device. 2,157,372; May 9.
Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread handling device for sewing machines. 2,157,373; May 9.
Weiskopf, Edwin C., assignor to H. Cohen, New York, N. Y. Automatic immersion apparatus. 2,157,875; May 9.
Welke, Ferdinand G., assignor to Shell Development Company, San Francisco, Calif. Hoist. 2,157,734; May 9.
Wells, Edward H., Jr., assignor to Johns-Manville Corporation, New York, N. Y. Trussed plate structure. 2,157,374; May 9.
Welty, Frank, Youngstown, Ohio. Heat exchanger. 2,157,744; May 9.
Wenczler, Lajos, Augsburg, Germany, assignor to Ubertype Aktiengesellschaft of Kubli House, Glarus, Kanton Glarus, Switzerland. Photographic type-composing machine. 2,158,039; May 9.
Wendlik, Hubert, Prague, Czechoslovakia, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge tube. 2,157,722; May 9.
Wenger, Floyd E., assignor to R. L. Triplett, Bluffton, Ohio. Electrical measuring instrument. 2,157,973; May 9.
Wentz, Mark, Big Springs, Tex., assignor of twenty-four and one-half percent to himself, twenty-four and one-half percent to S. B. Stone, twenty-five and one-half percent to J. H. Greene, and twenty-five and one-half percent to R. F. Schermerhorn. Air cooler and heater. 2,157,974; May 9.
Wertheimer, Amy, New York, N. Y. Food preparation and making the same. 2,157,839; May 9.
Wertz, Daniel L. (See McGrath, W. L., Ferguson, Whitney, and Wertz.)
Westermann, Rudolf, Amatitlan, Guatemala. Letter balance. 2,157,807; May 9.
Western Pellet Machine Corporation. (See Crabtree, Duane, assignor.)
Westinghouse Electric Elevator Company. (See Vanderzee, Harry H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Amatrong, G. C., and Ellis, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bernarde, Henry L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Curry, Oliver B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cuttino, William H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dawson, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, F. H., and Dawson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hein, Carl C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Iams, Harley A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lee, Paul R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lenz, Peter L., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacNeill, John B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Moses, Graham L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ow, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Purifoy, George R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ridge, Raymond J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schwaiger, Max, assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Smede, Lloyd, assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Gerald F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Steinert, Emil F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stoddard, Ralph N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wendlik, Hubert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Winkler, Frederic C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Young, D. A., and Bernarde, assignors.)
Weston, Milton T., Red Bank, N. J. Variable speed transmission. 2,158,047; May 9.
Westwick, John W., Galena, Ill. Oil-fired furnace. 2,157,643; May 9.
Wheeler, Freeman Y., Beverly Hills, assignor to Clayton Manufacturing Company, Alhambra, Calif. Apparatus for producing a spray. 2,157,581; May 9.
Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar bunch shaping machine. 2,157,537; May 9.
Wheeler Insulated Wire Company. (See Starring, D. S., and Horn, assignors.)
Whipple, Jack V., assignor to United States Gauge Company, Sellersville, Pa. Brake tester or accelerometer. 2,157,514; May 9.
Whiting, Max A., Schenectady, N. Y., and D. W. McLenegan, Caldwell, N. J., assignors to General Electric Company. Power system. 2,157,840; May 9.
Whitlock, Charles P., San Diego, Calif. Tool holder for pneumatic hammers. 2,157,444; May 9.
Whitney, Maurice P. (See McGrath, W. L., Ferguson, Whitney, and Wertz.)
Wichart, William F., Los Angeles, Calif. Determining "Wow". 2,157,445; May 9.
Wieners, Franz. (See Mieg, W., Wieners, and Burneleit.)
Wiessner, Christopher, assignor to Durametallic Corporation, Kalamazoo, Mich. Facing tool for stuffing boxes and the like. 2,157,375; May 9.
Wiggenhorn, Guido J., South Pasadena, Calif. Water cooler. 2,157,446; May 9.
Wiggins, John H., Chicago, Ill. Gauging apparatus for liquid containers. 2,157,196; May 9.
Wilhelm, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Aperiodic coupling device. 2,157,582; May 9.
Wilkening Manufacturing Company. (See Robertson, D. D., and Briggs, assignors.)
Willard Storage Battery Company. (See Rolph, Samuel W., assignor.)
Willcox & Gibbs Sewing Machine Company. (See Weis, John P., assignor.)
Williams, Cliff A., assignor to S. D. Bowles, Dallas, Tex. Welding composition. 2,157,447; May 9.
Williams, James H., assignor to General Fire Extinguisher Company, Providence, R. I. Welding T and making same. 2,157,274; May 9.
Williams, John H., Jr., Providence, R. I. Tenter machine. 2,157,644; May 9.
Williams, Russell J., assignor to Bemis Bro. Bag. Co., St. Louis, Mo. Bag. 2,157,392; May 9.
Williams, Thomas C., and S. A. Shorter, assignors to The British Cotton Industry Research Association, Didsbury, Manchester, England. Apparatus for cleaning and opening cotton or like fibrous material. 2,157,684; May 9.
Wilputte, Louis. (See Potter, Joel S., assignor.)
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Wilson, Lewis E., Milwaukee, Wis. Force measuring device. 2,157,723; May 9.
Wilson, William H., Burlington, Vt. Humidifying apparatus for the treatment of wool yarn. 2,157,975; May 9.
Wingfoot Corporation. (See Clifford, Albert W., assignor.)
Wingfoot Corporation. (See Lichty, Joy G., assignor.)
Winkeler, Hermann, Ludwigshafen-on-the-Rhine, and A. Petz, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Polyazo dyestuffs. 2,157,876; May 9.
Winkeler, Hermann, Ludwigshafen-on-the-Rhine and A. Petz, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Polyazo dyestuffs. 2,157,877; May 9.
Winkler, Frederic C., Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lighting fixture. 2,157,945; May 9.
Wirz, A. H., Inc. (See Barker, Edwin H., assignor.)
Wisoff, Isaac J., Brooklyn, N. Y. Apparatus for producing decorative material. 2,157,583; May 9.
Witherow, William P. (See Henderson, Albert, assignor.)
Wittman, Frederick M., Fairmont, and H. H. Parrack, Barrackville, W. Va. Mine prop. 2,158,018; May 9.
Wolfenden, Harry C., Attleboro, Mass. Apparatus for lofting and fluffing yarns and the like. 2,157,976; May 9.
Wolfskill, John M., assignor to Bliley Electric Company, Erie, Pa. Piezoelectric crystal. 2,157,808; May 9.
Wollweber, Henry J., assignor, by mesne assignments, to Oppenheimer Casing Co., Chicago, Ill. Treating animal casings. 2,157,515; May 9.
Woodall-Duckham (1920) Limited. (See McEwan, M. H., and Buchanan, assignors.)
Woodman, Joseph C., Flushing, assignor, by mesne assignments, to Nichols Engineering and Research Corporation, New York, N. Y. Incineration. 2,157,903; May 9.
Woodruff, Louis F., Wellesley, Mass. Radio station recorder. 2,157,584; May 9.
Work, Harold K., Oakmont, and C. J. Slunder, New Kensington, assignors to Aluminum Company of America, Pittsburgh, Pa. Treating aluminum surfaces. 2,157,155; May 9.
Worstell, Robert E., Cleveland Heights, Ohio, assignor to General Electric Company. Synchronization testing device. 2,157,878; May 9.
Wortendyke, Raymond D., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Infeed cycle control mechanism for grinding machines. 2,157,946; May 9.
Wright, George M., Woodham Ferrers (Bicknacre), England, assignor to Radio Corporation of America. Switching arangement for high frequency apparatus. 2,157,312; May 9.
Wright, Lloyd E. and Robert I., Albany, Oreg. Fan for separators. 2,157,469; May 9.
Wright, Robert I. (See Wright, Lloyd E. and R. I.)
Wydler, Hermann, Bern, assignor to the firm Sauser A.-G., Soleure, Switzerland. Liquid dispensing apparatus. 2,157,745; May 9.
Ximenez, Manuel R., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Making a plastic composition. 2,157,645; May 9.
Yale & Towne Manufacturing Company, The. (See Heyer, Frederic K., assignor.)
Yetter, Harry G., Colchester, Ill. Tractor wheel scraper. 2,157,253; May 9.
Young, Douglass A., East Orange, and H. L. Bernarde, Kearny, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Repulsion vane instrument. 2,157,947; May 9.
Young, Helen E., Darien, Conn. Dust trap for sewing and other machines. 2,157,176; May 9.
Young, Leonard A., Detroit, Mich. Washer. 2,157,516; May 9.
Young, Russell, et al. (See Petty, William S., assignor.)
Young, William, et al. (See Petty, William S., assignor.)
Zablocki, Eugene C., assignor to Briggs Manufacturing Company, Detroit, Mich. Glue spreading machine. 2,157,724; May 9.
Zagwyn, Conrad J., Brighton, Mass. Fuel mixing device. 2,157,809; May 9.
Zellman, Roy H., assignor to Thew Shovel Company, Lorain, Ohio. Semitrailer load handling machine mechanism. 2,157,376; May 9.
Zeiss Ikon Aktiengesellschaft. (See Fischer, Otto, assignor.)
Zenner, George H., Kenmore, assignor to The Linde Air Products Company, New York, N. Y. Apparatus for and method of operating cascade systems. 2,157,103; May 9.
Zenner, Raymond E., Brookfield, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,157,517; May 9.
Zerweck, Werner, and W. Kunze, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs. 2,157,725; May 9.
Zink, George W., Stratford, Conn., assignor to Phelps Dodge Copper Products Corporation, New York, N. Y. Electric cable. 2,157,377; May 9.
Zonite products Corporation. (See Minaeff, M. G., and Hughes, assignors.)
Zublin, Ernest W., assignor to Shell Development Company, San Francisco, Calif. Purification and separation of gaseous mixtures. 2,157,879; May 9.
Zumft, George, assignor, by mesne assignments, to The Madison Products Company, New York, N. Y. Sprayer. 2,157,726; May 9.
Zworykin, Vladimir K., Philadelphia, Pa., and L. Malter, Oaklyn, N. J., assignors to Radio Corporation of America. Electric discharge device. 2,157,585; May 9.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Belt. A. L. Freedlander. Re. 21,075; May 9.
High-frequency inductance. A. Crossley and C. C. Neighbors. Re. 21,074; May 9.
Pectate and making same. C. W. Wilson. Re. 21,077; May 9.
Sanitary napkin. E. E. Glomstead. Re. 21,076; May 9.

LIST OF DESIGN INVENTIONS

Advertising door pull. E. R. Erickson. 114,636; May 9.
Air conditioner and ozonizer, Combined. J. E. Kenney. 114,682; May 9.
Alarm, Combined visual and audible. T. J. Scofield. 114,724; May 9.
Atomizer. E. M. James. 114,678; May 9.
Bicycle frame. J. R. Morgan. 114,716–17; May 9.
Bottle. M. Kane. 114,659; May 9.
Bottle. R. D. Kerckhoff. 114,660; May 9.
Bottle. P. P. Mülhens. 114,718; May 9.
Bottle display and holder therefor, Perfume. J. D. Buckingham. 114,653; May 9.
Bottle or similar article, Perfume. J. D. Buckingham. 114,652; May 9.
Bottle or similar container. W. M. Jakway. 114,677; May 9.
Bottle or similar container. G. C. Robinson. 114,667; May 9.
Bracelet. A. Philippe. 114,721–3; May 9.
Bracket for bathroom fixtures. J. J. Connors. 114,696; May 9.
Brooch or similar article. J. Hirsch. 114,655–6; May 9.
Brooch or similar article. J. H. Leff. 114,661–4; May 9.
Cabinet, Dispensing. N. E. Heil and J. O. Camp. 114,637; May 9.
Cabinet, Radio. G. W. Walker. 114,651; May 9.
Cabinet, Sink. J. R. Morgan. 114,644; May 9.
Cabinet top member or the like, Phonograph. H. T. Roberts. 114,647; May 9.
Cabinet, Water cooler. E. A. Self. 114,689; May 9.
Case or similar article, Illuminable vanity. G. M. Cressaty. 114,698; May 9.
Case, Watch. B. de F. Bernstein. 114,631; May 9.
Casing, Electrical instrument. A. G. Babo. 114,628; May 9.
Casing or the like, Vending machine. F. W. Hoban. 114,657; May 9.
Chair, Wooden. C. H. Wood. 114,693; May 9.
Clock and smoking stand, Combined. J. M. Walkley. 114,668; May 9.
Coffee maker. F. E. Wolcott. 114,692; May 9.
Comb and case, Combination. L. Kahn. 114,658; May 9.
Cover and hood, Combined tractor radiator. H. Dreyfuss. 114,635; May 9.
Door stop. E. W. Menger. 114,639; May 9.
Dress. R. Feintuck. 114,733; May 9.
Dress. P. Fracchia. 114,701–10; May 9.
Dress. R. Henkin. 114,713; May 9.
Dress. D. Klein. 114,714; May 9.
Dress. D. Klein. 114,734; May 9.
Dress. M. V. Mascitelli. 114,736; May 9.
Dress. M. Massow. 114,715; May 9.
Dress. M. Michelson. 114,737; May 9.
Dress. J. Scharlott. 114,738; May 9.
Dress. J. M. Sterngold. 114,725–9; May 9.
Dress. M. Stone. 114,730; May 9.
Dress. M. Stone. 114,739; May 9.
Dress ensemble. T. Coleman. 114,697; May 9.
Dress ensemble. C. Flusser. 114,700; May 9.
Dress ensemble. I. Grobstein. 114,711; May 9.
Fabric or similar article, Textile. C. Dondo. 114,740; May 9.
Fabric, Textile. S. T. Paley. 114,719; May 9.
Glass, Drinking. J. E. Spence. 114,690; May 9.
Heater, Space. W. D. Teague. 114,691; May 9.
Heel. K. C. Demick. 114,634; May 9.
Housing for an air conditioning expansion coil and fan. H. B. Parker. 114,666; May 9.
Iron or similar article, Waffle. A. A. Propernick. 114,687; May 9.
Jar. O. C. Noble. 114,655; May 9.
Jar, Glass. F. J. Petty. 114,686; May 9.
Knob or similar article, Automobile gear shift. G. Berkson. 114,630; May 9.
Lamp. C. A. Christoph. 114,695; May 9.
Mitten. K. D. Henderson. 114,680; May 9.
Plate or similar article. D. Bourne. 114,670; May 9.
Plate or similar article. C. W. Leigh. 114,684; May 9.
Power drive unit for use with hand cutting tools, Electric. R. B. Pealer. 114,720; May 9.
Psychoanalysis device, Color. I. Kenway. 114,683; May 9.
Pump. C. G. Walters, and K. R. Knowles. 114,669; May 9.
Rack, Phonograph record. W. F. Brotzman and B. H. Statter. 114,671; May 9.
Radio set, Automobile. G. G. Brittan. 114,632; May 9.
Receptacle, Flexible pocket. W. R. Buxton. 114,694; May 9.
Roller, Massage. P. Tresenberg. 114,731; May 9.
Setting and jewels, Combined. W. Simon. 114,649; May 9.
Shaker, Cocktail. A. Cravaritis. 114,673; May 9.
Sharpener, letter opener, eraser and bottle cap remover, Combined pencil. F. J. Becker. 114,629; May 9.
Shoe. H. B. Delman. 114,633; May 9.
Signal device. L. Rittenhouse and S. M. Crossett. 114,688; May 9.
Sink. J. R. Morgan. 114,640–2; May 9.
Sink and cabinet, Combined. J. R. Morgan. 114,643; May 9.
Sink and drain board, Combined. J. R. Morgan. 114,645; May 9.
Slicer and corer, Combined. G. N. Coughlan. 114,672; May 9.
Stand, Display. A. R. Gross. 114,674–5; May 9.
Stand, Power driven pipe. W. M. Emery and A. S. Gould. 114,654; May 9.
Stool. H. B. Kellogg. 114,681; May 9.
Suspender end or the like. D. T. Manning. 114,638; May 9.
Suspenders, Rotary back for. A. Oppenheim. 114,646; May 9.
Table, Game. P. G. Valenzuela and E. S. Castro. 114,650; May 9.
Tellurian. O. A. Schumann. 114,648; May 9.
Toy. A. Danescu. 114,699; May 9.
Tray, Ash. L. J. Hendler. 114,679; May 9.
Tray, Ash. F. B. Hoffman. 114,676; May 9.
Tray, Cracker. P. W. Mikesell. 114,685; May 9.
Tumbler or article of similar nature, Glass. T. C. Heisey. 114,712; May 9.
Typewriter key top. B. S. Manus. 114,735; May 9.
Wrapper, Bread. G. O. Bennett and C. A. Deisenroth. 114,732; May 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid and other lower fatty acids, Dehydration of acetic. D. F. Othmer. 2,157,143; May 9.
Address stabilizing system, Public. E. W. Kellogg. 2,157,177–8; May 9.
Advertising device. C. Doering. 2,157,199; May 9.
Aerial, Automobile radio. R. B. Blackmore. 2,157,278; May 9.
Air cleaner. W. J. Foster. 2,158,042; May 9.
Air conditioning apparatus. H. F. Beeman. 2,157,519; May 9.
Air conditioning apparatus. R. J. Ridge. 2,157,145; May 9.
Air conditioning system utilizing refrigeration. S. M. Anderson. 2,157,685; May 9.
Air cooling device. F. A. Helfrecht. 2,157,409; May 9.
Air injector for internal combustion engines. A. J. Loebs. 2,157,551; May 9.
Airplane or glider, Model. W. E. Back. 2,157,448; May 9.
Alarm, Tire. H. H. and L. J. Brandert. 2,157,655; May 9.
Aligning and racket stringing device. F. T. Lee and A. D. Henry. 2,157,616; May 9.
Alloy: *See*—
Bearing alloy. Magnesium alloy.
Copper base alloy. Steel alloy.
Lead alloy.
Alloys, Aluminum. E. A. Schmeller. 2,157,741; May 9.
Alloys of improved qualities, Copper-magnesium. F. R. Hensel and E. I. Larsen. 2,157,934; May 9.
Alloys, Making. H. S. Cooper and C. H. Van Dusen, Jr. 2,157,979; May 9.
Alloys, Relief of stress cracking in aluminum-magnesium. F. P. Somers. 2,157,150; May 9.
Aluminum surfaces, Treating. H. K. Work and C. J. Slunder. 2,157,155; May 9.
Ammunition box. W. Rethel. 2,157,306; May 9.
Amusement and advertising device, Combination. C. G. Lunica. 2,157,266; May 9.
Amusement device. F. Neuklis. 2,157,798; May 9.
Animal trap. H. A. Stilson and R. H. Sharp. 2,157,222; May 9.
Anion exchange, Effecting. O. M. Urbain and W. R. Stemen. 2,157,510–11; May 9.
Annealing box. K. J. Deahl. 2,157,231; May 9.
Antenna system. G. H. Brown. 2,157,159; May 9.
Antenna system for vehicles. D. E. Foster. 2,157,532; May 9.
Antislipping means, Detachable. H. C. Oakland. 2,157,561; May 9.
Apparatus for controlling flow of fuel to a heating device. W. D. Bell. 2,157,109; May 9.
Apparatus for measuring predetermined quantities by weighing. A. van Duyn. 2,157,197; May 9.
Apparatus to make steel reinforced loosleaf paper sheets. F. S. Schade. 2,157,270; May 9.
Applicator pad, Wax charged. R. B. Kingman. 2,157,543; May 9.
Arm, Artificial. A. F. Carmack. 2,157,747; May 9.
Articles by vaporized coating materials, Coating. W. Burkhardt and R. Reinecke. 2,157,478; May 9.
Articles from steel alloys, Manufacture of. F. K. Naumann. 2,157,653–4; May 9.
Ash-forming constituents from a residual petroleum oil, Removing. F. M. Archibald. 2,157,315; May 9.
Asphalt emulsions and making same. A. L. Halvorsen. 2,157,698; May 9.
Atomizer, Centrifugal. H. A. Kjos. 2,157,416; May 9.
Automobile direction indicator. R. Atti. 2,157,317; May 9.
Back pressure arrester, Hydraulic. C. Ness. 2,157,914; May 9.
Bacteria and the like, Device for counting. S. P. Sparks. 2,157,438; May 9.
Bag: *See*—
Dressing bag. Heat bag.
Bag. R. J. Williams. 2,157,392; May 9.
Bag, coffee bag, and the like, Tea. R. N. Doble. 2,157,656; May 9.
Bait, Artificial. C. T. Pflueger. 2,158,037; May 9.
Bait float. F. Eckert. 2,157,819; May 9.
Bait holder and hook. J. B. Hadaway. 2,157,333; May 9.
Balance, Letter. R. Westermann. 2,157,807; May 9.
Balance wheel and self-oiling wrist pin. J. H. Meagher. 2,157,242; May 9.
Baling. C. W. Lanter. 2,157,765; May 9.
Ball, Making a reinforced. W. J. Voit and L. C. Weimer. 2,157,580; May 9.
Bar: *See*—
Spring bar.
Bar for helical springs. J. F. Fleck. 2,157,820; May 9.
Bar support and spacer. W. P. Awbrey. 2,157,275; May 9.
Basket for collective dishwashing, Cup and saucer. C. Barrie. 2,157,276; May 9.
Battery charging system. C. B. Mirick. 2,157,139; May 9.
Battery, Rechargeable dry cell. C. F. Bonilla. 2,157,111; May 9.
Battery with unit insulation, Storage. S. W. Rolph. 2,157,629; May 9.
Beach maintaining apparatus and a beach maintaining method. E. J. Prendergast. 2,158,046; May 9.
Bead-forming machine. S. S. Millen. 2,158,011; May 9.
Beam. N. V. Andersson. 2,157,104; May 9.
Beam-testing machine. R. L. Grant, Jr. 2,158,008; May 9.
Bearing. H. Potter. 2,157,098; May 9.
Bearing. J. W. Smith. 2,157,101; May 9.
Bearing alloy. E. R. Darby, L. A. Barera, and P. J. Potter. 2,157,121; May 9.
Bearing for rolling mills. C. P. Kimmel. 2,157,455; May 9.
Bearings, Manufacture of. H. Jaeger. 2,157,453; May 9.
Beer and preparing same. A. Schapiro. 2,157,633; May 9.
Belt shifting mechanism for a lathe. T. E. Brown. 2,157,398; May 9.
Belting, Ironer. W. D. Ellis, III, and C. B. Haydon. 2,158,007; May 9.
Bend, Expansion. W. Peuthert. 2,157,564; May 9.
Beverage. A. Schapiro. 2,157,632; May 9.
Billboard, Opened-face. H. E. Byrkett and C. H. Dial. 2,157,931; May 9.
Bimetallic ice rack. M. Hokanson. 2,157,130; May 9.
Binder. E. A. Trussell. 2,157,872; May 9.
Binder, Load. L. Haubert. 2,157,451; May 9.
Binder, Loose leaf. P. O. Unger. 2,157,721; May 9.
Bituminous bodies, Manufacture of formed. H. W. Greider and H. Marc. 2,157,696; May 9.
Bladed structure and producing same. F. J. Sullivan. 2,157,441; May 9.
Blind operating mechanism, Venetian. W. E. Shehan. 2,157,637; May 9.
Blowpipe. H. S. George. 2,157,331; May 9.
Board: *See*—
Ironing board.
Body and chassis construction, Combined. C. L. Eksergian. 2,157,649; May 9.
Body for automotive vehicles, Closed. J. J. P. Vigroux. 2,157,366; May 9.
Boiler: *See*—
Marine boiler. Superheater boiler.
Bolster spring unit. G. C. Christy. 2,158,000; May 9.
Book rack. W. E. Haskin. 2,157,894; May 9.
Boring and threading device. A. R. Swanson. 2,157,248; May 9.
Bottle cap. G. H. Hutaff, Jr. 2,157,239; May 9.
Bottle cap. O. L. Koscherak. 2,157,937; May 9.
Bottle filling valve. W. Lemire. 2,157,292; May 9.
Bottle, Metal. R. J. Held. 2,157,896; May 9.
Box: *See*—
Ammunition box. Flower display box.
Annealing box. Watch box.
Box structure. C. H. Ballard. 2,157,686; May 9.
Bracket and supporting standard, Adjustable shelf. E. Swedman and L. Stifter. 2,157,309; May 9.
Brake. L. Bertrand. 2,157,277; May 9.
Brake. W. C. Sessions. 2,157,733; May 9.
Brake. J. Sneed. 2,157,272; May 9.
Brake for motor vehicles. F. C. Best. 2,157,473; May 9.
Brake mechanism. C. F. Baisch. 2,157,091; May 9.
Brake mechanism. C. F. Baisch. 2,157,994; May 9.
Brake tester or accelerometer. J. V. Whipple. 2,157,514; May 9.
Bridge, Floating. A. W. Knight. 2,157,959; May 9.
Building block and assembly thereof. L. C. Smith. 2,157,992; May 9.
Building construction. S. F. Tapman. 2,157,359; May 9.
Bumper structure. H. S. Jandus. 2,157,825; May 9.
Bumper, Vehicle. E. Eaton. 2,157,657; May 9.
Burner: *See*—
Oil burner.
Button and illuminated house number device, Combined push. J. H. McCann and F. H. Seaburg. 2,157,772; May 9.
Cable: *See*—
Electric cable. Signaling cable.
Cable, Air space insulated signaling. A. Braun. 2,157,475; May 9.
Cable control, Well drilling. H. W. Buschman. 2,157,951; May 9.
Cable reel. M. Armstrong. 2,157,781; May 9.
Calculating machine. G. W. Hopkins, Jr. 2,157,411; May 9.
Calculating machine. F. Pott. 2,157,459; May 9.
Camera, Photographic. L. Leitz. 2,157,547; May 9.

Can cooling and drying machine. J. M. Hothersall and G. C. Reid. 2,157,131; May 9.
Cap: *See*—
Bottle cap. Milk bottle cap.
Glass applicator cap.
Capacity control for ignition systems. J. T. Fitzsimmons. 2,157,599; May 9.
Carpet cleaning machine. J. K. Tingle. 2,157,250; May 9.
Carrier: *See*—
Index card carrier.
Carrier and lifter, Battery. J. P. Gantt. 2,157,753; May 9.
Carrier or conveyer chain, Endless. R. S. Dyson. 2,157,283; May 9.
Cascade systems, Apparatus for and method of operating. G. H. Zenner. 2,157,103; May 9.
Case: *See*—
Container and carrying case.
Casings, Treating animal. H. J. Wollweber. 2,157,515; May 9.
Casket. H. S. Scholl. 2,157,308; May 9.
Catcher for tin plate, Automatic. D. Buccicone and R. A. Fenoglio. 2,157,228; May 9.
Cathode ray deflecting device. I. G. Maloff. 2,157,182; May 9.
Cellulose esters, Articles of. C. Dreyfus. 2,157,167; May 9.
Celluloses, Producing low substituted alkyl. D. C. Ellsworth and F. C. Hahn. 2,157,530; May 9.
Cellulosic coating. J. R. Haines. 2,157,334; May 9.
Cellulosic structure and preparing same. E. Kline. 2,157,544; May 9.
Cement raw material and similar substances, Method of and apparatus for treating. H. Bussmeyer. 2,157,321; May 9.
Chain: *See*—
Carrier or conveyer chain. Conveyer chain.
Chain applying mechanism, Skid. G. L. Briggs. 2,157,687; May 9.
Change-speed control. P. L. Tenney and B. Cataline. 2,157,249; May 9.
Check for drainage ditches, Water. C. G. Payne. 2,157,671; May 9.
Chemicals, Apparatus for handling foam. G. Blair. 2,157,520; May 9.
Chlorine monoxide, Preparation of. G. H. Cady. 2,157,524–5; May 9.
Chromizing, Method of. H. S. Cooper. 2,157,594; May 9.
Cigar bunch shaping machine. J. F. Halstead. 2,157,125; May 9.
Cigar bunch shaping machine. H. H. Wheeler. 2,157,537; May 9.
Cigarette machine, Pocket. E. Hansen. 2,157,605; May 9.
Cigarette making machines, Apparatus for the charging of. L. Repper. 2,157,801; May 9.
Circuit: *See*—
Electric valve circuit. Oscillation circuit.
Motor circuit. Oscillator circuit.
Circuit and apparatus, High frequency. N. E. Sowers. 2,157,870; May 9.
Circuit arrangement for telephone systems. G. W. Sutton. 2,157,927; May 9.
Circuit breaker. J. B. MacNeill. 2,157,714; May 9.
Circuit breaker, Electric. E. B. Merriam. 2,157,911; May 9.
Circuit breaker, Thermally-actuated. F. J. Neece. 2,157,560; May 9.
Circuit controlling apparatus, Synchronous. M. R. Miller. 2,157,858; May 9.
Circuit interrupter, Electric. R. Auerbach and H. Burmeister. 2,157,883; May 9.
Circuit interrupter, Electric. P. Nowak, C. Tobis, and H. Hofmeier. 2,157,832; May 9.
Circuit selector, Automatic. R. F. Kneisley. 2,157,417; May 9.
Circular knitting machine. A. Neuhauss. 2,157,300; May 9.
Clamp. J. W. Nelson. 2,157,345; May 9.
Cleaner: *See*—
Air cleaner. Vacuum cleaner.
Glass cleaner.
Cleaner or scraper, Compensating pipe or sewer. G. I. McFarland. 2,157,421; May 9.
Clock, Cyclometer. N. G. Horwitt. 2,157,540; May 9.
Closure and comb wiper, Combined bottle. A. Pitar and O. Dahloff. 2,157,432; May 9.
Closure device. D. M. Ross. 2,157,218; May 9.
Closure device for a tubular member adapted for displaying advertising matter. J. C. Dunn. 2,157,730; May 9.
Closure for mixing drums, End. F. O'Reilly. 2,157,731; May 9.
Cloth guiding device. C. G. Richardson. 2,157,920; May 9.
Clothes drying frame. H. H. French. 2,157,822; May 9.
Clutch: *See*—
Friction clutch.
Clutch throw-out collar. E. Padden. 2,157,429; May 9.
Coal drier. W. A. Ogg. 2,157,268; May 9.
Coaster. R. W. Robinson. 2,157,461; May 9.
Coating compositions and preparing same. R. T. Hucks. 2,157,901; May 9.
Coating device for wet paper. W. M. Nash. 2,157,213; May 9.
Coatings, Apparatus for the production of metallic. R. Reinecke and W. Burkhardt. 2,157,498; May 9.
Coffee, Decaffeination of. W. C. Hasselhorn and J. J. Thompson. 2,157,956; May 9.
Coiling mechanism. H. K. Beach. 2,157,811; May 9.
Coke guide employed when discharging coke from horizontal coke ovens. M. H. McEwan and W. G. Buchanan. 2,157,458; May 9.
Coke oven door. J. S. Potter. 2,157,568; May 9.
Coke oven door, Self-sealing. J. S. Potter. 2,157,569; May 9.
Collar. M. B. Carmody. 2,157,591; May 9.
Coloring and coating compositions, Setting. C. J. MacArthur. 2,157,387; May 9.
Comfort cooling unit. E. F. Fisher. 2,157,531; May 9.
Commode, Bed. J. E. Beery. 2,157,394; May 9.
Composition of matrices for typographical slug-casting machines, Hand. J. E. Billington and R. H. Scott. 2,157,782; May 9.
Composition of matter and making and using the same. M. T. Harvey. 2,157,126; May 9.
Composition of matter useful for moth-proofing. D. W. Jayne, Jr. 2,157,854; May 9.
Compression apparatus. W. Le Claire. 2,157,615; May 9.
Condensation reaction. D. J. Loder. 2,158,031; May 9.
Condenser: *See*—
Electrical condenser.
Condenser tube protector. T. J. Bay. 2,157,107; May 9.
Connecter, Tap. A. A. Berndt. 2,157,846; May 9.
Connection, Universal. C. R. Craver. 2,157,401; May 9.
Connection for vessels, Alloy-lined tubular. S. Straty. 2,157,357; May 9.
Connector: *See*—
Pronged-device connector. Wire connector.
Contact assembly for double-surfaced rectifier elements. C. C. Hein. 2,157,895; May 9.
Contact, Silver-indium. F. R. Hensel and K. L. Emmert. 2,157,933; May 9.
Contactor bases for electric lamps, tubes, and the like, Making. C. W. Haller. 2,158,044; May 9.
Container: *See*—
Dispensing container. Tubular container.
Container. J. E. Page. 2,157,302; May 9.
Container and carrying case. D. S. Crum. 2,157,257; May 9.
Container and closure. J. L. Armitage and J. E. Sharp. 2,157,842; May 9.
Container and closure, Ink. W. G. Watt. 2,157,512; May 9.
Continuous heating furnace. H. F. Spencer and W. A. Morton. 2,157,221; May 9.
Control apparatus. J. W. Ow. 2,157,863; May 9.
Control apparatus for radiobeacon systems. N. H. Clough. 2,157,690; May 9.
Control apparatus for railway signaling systems, Approach. C. B. Shields. 2,158,016; May 9.
Control device. H. A. Mants. 2,157,296; May 9.
Control for burners, System of. H. E. Lake. 2,157,710; May 9.
Control system. F. B. Fillo. 2,157,329; May 9.
Control system. G. R. Purifoy. 2,157,917; May 9.
Control system for motor vehicles. C. A. Brewer. 2,157,588; May 9.
Control system for trolley frogs. G. L. Moses. 2,157,859; May 9.
Conveyer chain. R. W. Hall. 2,157,289; May 9.
Conveyer for granular materials. J. J. Neuman. 2,157,301; May 9.
Cooler: *See*—
Water cooler.
Cooler and heater, Air. M. Wentz. 2,157,974; May 9.
Copper base alloy. C. S. Smith and E. W. Palmer. 2,157,149; May 9.
Copying machine, Offset rotary. L. Kluitmann. 2,157,489; May 9.
Correction device for gyrocompasses. N. W. Thompson. 2,157,360; May 9.
Corset garment. S. T. Metz. 2,157,422; May 9.
Cot, Finger. J. G. Lenta. 2,157,293; May 9.
Cotton or like fibrous material, Apparatus for cleaning and opening. T. C. Williams and S. A. Shorter. 2,157,684; May 9.
Counter, Price and quantity indicating. B. J. Pepper. 2,157,627; May 9.
Counterflow system for wool scouring machines. F. L. Furbush. 2,157,287; May 9.
Coupling: *See*—
Rope coupling.
Coupling device. W. Buschbeck. 2,157,523; May 9.
Coupling device, Aperiodic. K. Wilhelm. 2,157,582; May 9.
Coupling, Making a flexible. H. P. Bemis. 2,157,093; May 9.
Couplings and couplings so made, Manufacturing sucker rod. C. I. Leibensperger and F. H. Thorpe. 2,157,713; May 9.
Cover: *See*—
Scrip cover. Spring cover.
Cover for steering wheels. F. A. Best. 2,157,950; May 9.
Cream, Stabilized antiseptic. M. G. Minaeff and R. C. Hughes. 2,157,831; May 9.
Crossing, Railway. L. Sadler. 2,157,246; May 9.

Crossing, Safety. H. R. Gilmore. 2,157,602; May 9.
Crystals, Arrangement of oscillation. W. Schneider. 2,157,576; May 9.
Cup, Adjustable measuring. C. S. Jansen. 2,157,262; May 9.
Curler, Hair. F. Pisciotta. 2,157,244; May 9.
Cushion, Heel. J. Nabokin. 2,157,912; May 9.
Cut-out, Electric. R. R. Pittman and C. H. Walsh. 2,157,215; May 9.
Cutlery, Device for sharpening. S. L. Carosi. 2,157,816; May 9.
Cycle control mechanism for grinding machines, Infeed. R. D. Wortendyke. 2,157,946; May 9.
Cylinder, Printing. J. P. E. Neilson. 2,157,621; May 9.
Damper and filter arrangement for air circulating units. G. C. Savage. 2,157,307; May 9.
Damper construction. J. F. Coventry. 2,157,382; May 9.
Darning device. W. W. Klima. 2,157,791; May 9.
Deadlocking latch. F. K. Heyer. 2,157,853; May 9.
Deep well pump. J. P. Jackson. 2,157,704; May 9.
Derrick. M. W. Sarsfield and C. L. Conklin. 2,157,500; May 9.
Designs, Combining smocking and needlework. H. S. Sadtler. 2,157,573; May 9.
Despooler. P. E. Chapman. 2,157,847; May 9.
Detergent composition containing buffers. H. E. Buc. 2,157,320; May 9.
Device for applying a coating to fabric. M. H. Bloomberg. 2,157,521; May 9.
Device for mixing, sifting, and kneading. P. Vollrath. 2,157,683; May 9.
Diesters of unsaturated glycols and preparing the same. A. W. Ralston and W. M. Selby. 2,157,144; May 9.
Dipper, Ice cream. L. Biskup. 2,158,813; May 9.
Discharge apparatus, Electric. J. W. Dawson. 2,157,888; May 9.
Discharge apparatus, Electric. R. N. Stoddard. 2,157,925; May 9.
Discharge device, Electric. L. Smede. 2,157,924; May 9.
Disk charge-forming apparatus. A. C. O. Bock and J. J. Ernau. 2,157,110; May 9.
Dispenser: *See*—
Liquid dispenser.
Dispenser. F. J. de Javannes. 2,157,282; May 9.
Dispening container. R. A. Brodesser. 2,157,476; May 9.
Dispensing device. E. E. Tourot. 2,157,778; May 9.
Dispensing machine. F. W. Hoban. 2,157,207; May 9.
Display apparatus. M. E. Brink. 2,157,397; May 9.
Display apparatus. M. Cooper. 2,157,400; May 9.
Distributing device. C. W. Hazelett. 2,157,538; May 9.
Doll. R. H. and M. A. Konikoff. 2,157,763; May 9.
Doll construction. M. De Cesare and D. Cohn. 2,157,165; May 9.
Door: *See*—
Coke oven door. Refrigerator door.
Door and door machinery, Coke oven. J. S. Potter. 2,157,567; May 9.
Door check. F. Kukula. 2,157,342; May 9.
Door machinery, Coke oven. J. Potter. 2,157,566; May 9.
Door dovetail construction. G. A. Tinnerman. 2,157,641; May 9.
Door glass control, Automobile. L. C. Ruska. 2,157,350; May 9.
Door operating means for electric couplers. H. E. Van Dorn. 2,157,364; May 9.
Draft rigging. H. E. Van Dorn. 2,157,363; May 9.
Drain for foundation walls. A. Henderson. 2,157,290; May 9.
Dress, Woman's. E. C. Robertson and B. R. Hamman. 2,157,460; May 9.
Dressing bag. H. L. Butman. 2,157,280; May 9.
Drier: *See*—
Coal drier.
Driers, Production of metallic. K. E. Long. 2,157,768; May 9.
Drive, Constant speed film. W. A. Black. 2,157,393; May 9.
Drying apparatus. T. Müller. 2,157,716; May 9.
Drying apparatus. A. R. Smith. 2,157,775; May 9.
Dusting machine. R. R. Root. 2,157,630; May 9.
Dyes for photographic emulsions, Sensitizing. W. Schneider and E. Bauer. 2,157,351; May 9.
Dyes of the xanthone series and making them, Monoazo. P. Petitcolas. 2,157,431; May 9.
Dyes, Producing symmetrical thioindigo. H. A. Lubs and A. J. Johnson. 2,158,032; May 9.
Dyestuff and making the same. P. W. Jewel and J. R. Pratt. 2,157,667; May 9.
Dyestuffs and making same, Vat. W. Kern. 2,157,341; May 9.
Dyestuff and their manufacture, Polyazo. H. Lier. 2,157,295; May 9.
Dyestuffs, Azo. W. Zerweck and W. Kunze. 2,157,725; May 9.
Dyestuffs of the anthraquinone series, Preparation of vat. W. Mieg, F. Wieners, and W. Burneleit. 2,157,991; May 9.
Dyestuffs, Polyazo. H. Winkeler and A. Petz. 2,157,876–7; May 9.
Earth scooping and conveying-off apparatus, Self-propelled. H. K. Richwine. 2,157,968; May 9.
Electric cable. G. W. Zink. 2,157,377; May 9.
Electric discharge device. V. K. Zworykin and L. Malter. 2,157,585; May 9.
Electric discharge tube. H. Wendlik. 2,157,722; May 9.
Electric motor, Submersible. T. G. Myers and F. Mason. 2,157,424; May 9.
Electric regulating system. A. Schmidt, Jr. 2,157,834; May 9.
Electric sign. E. R. Nickel. 2,157,185; May 9.
Electric switch. A. Cianchi. 2,157,114; May 9.
Electric valve circuit. B. D. Bedford. 2,157,812; May 9.
Electrical condenser. E. M. Meggenhofen. 2,157,715; May 9.
Electrical connecting means. H. A. Douglas. 2,158,002; May 9.
Electrical connection means. H. A. Douglas. 2,158,003–4; May 9.
Electrical contactor. G. C. Armstrong and D. Ellis. 2,157,843; May 9.
Electrical measuring instrument. F. E. Wenger. 2,157,973; May 9.
Electrical protective device. R. V. Boyer. 2,157,815; May 9.
Eletcrical relay. A. Hufnagel. 2,158,009 May 9.
Electrical switch. E. T. Abendroth. 2,157,156; May 9.
Electrical switch. M. L. Goodwin. 2,157,535; May 9.
Electrical system. S. E. Adair. 2,157,841; May 9.
Electrically heated fabric. A. C. Harris. 2,157,606; May 9.
Electrode, Make-alive. J. Slepian. 2,157,923; May 9.
Electromagnet with shading coil. G. C. Armstrong and D. Ellis. 2,157,844; May 9.
Electron discharge apparatus. R. A. Heising. 2,157,336; May 9.
Electron discharge device. M. E. Macksoud. 2,157,552; May 9.
Elevator leveling system. J. H. Borden. 2,157,396; May 9.
Energy in psychological experimentation, Measuring. R. B. W. Hutt and R. N. Abild. 2,157,790; May 9.
Engine: *See*—
Injection engine.
Internal combustion engine.
Engine frame. W. T. Hanna. 2,157,124; May 9.
Engine with adjustable pressure, Internal combustion. R. Geisslinger and K. R. Greiner. 2,157,486; May 9.
Envelope opening machine. E. J. Dummer and A. Gay. 2,157,232; May 9.
Envelope, Self-sealing. W. Hohwart. 2,157,898; May 9.
Equipment to railroad cars, Mounting underneath. K. F. Nystrom. 2,157,427; May 9.
Eraser attachment, Fountain pen. J. Cidissen. 2,157,450; May 9.
Esters of phosphoric acid, Manufacture of. A. J. Daly and W. G. Lowe. 2,157,164; May 9.
Ethers by means of acetylene, Production of aliphatic vinyl. W. Reppe and O. Hecht. 2,157,348; May 9.
Ethers derived from carbohydrates, Production of vinyl. W. Reppe and O. Hecht. 2,157,347; May 9.
Evaporator. D. P. Heath. 2,157,127; May 9.
Extractor: *See*—
Spray extractor. Weed extractor.
Fabric: *See*—
Electrically heated fabric.
Fabric, Making. J. B. Miles, Jr. 2,157,119; May 9.
Fabric testing apparatus. R. W. Allen and T. A. Te Grothenhuis. 2,157,092; May 9.
Fabrics, Finishing lightweight. F. M. Ford. 2,157,600; May 9.
Fabrics to prevent rotting, Treatment of. R. A. Baker 2,157,727; May 9.
Fan for separators. L. E. and R. I. Wright. 2,157,469; May 9.
Fan, Ventilating. F. Charavay. 2,157,999; May 9.
Fastener: *See*—
Separable fastener. Sliding clasp fastener.
Fastening device. I. W. Tucker. 2,157,837; May 9.
Fastenings, Inserting. N. C. Pollard. 2,157,216; May 9.
Feed and preparing same. C. G. Harrel and A. W. Lindert. 2,157,755; May 9.
Feeding device for domestic pets, Time controlled. R. V. Sweeny. 2,157,682; May 9.
Fence controller, Electric. F. Buck. 2,157,160; May 9.
Fender, Automobile. H. W. Lang. 2,157,793; May 9.
Fender, Motor vehicle. A. A. Roth. 2,157,147; May 9.
Fender sight. L. Eisenman. 2,158,005; May 9.
Fender skirt mounting. G. W. Schatzman. 2,157,921; May 9.
Fertilizer by employing calcium cyanide as the raw material, Manufacturing a. K. Hosokawa. 2,157,541; May 9.
Fibers, Synthetic. W. W. Heckert. 2,157,118; May 9.
Film base, Photographic. J. G. Davidson. 2,157,384; May 9.
Filter for cream and milk. J. M. Kidd. 2,157,668; May 9.
Fire control for machine guns. G. Schmidt. 2,157,575; May 9.
Fireplace. J. D. Covert. 2,158,041; May 9.
Fishhook connector and spreader. O. Bulow. 2,157,477; May 9.
Fishing bait, Artificial. C. A. Johnson. 2,157,414; May 9.

Flame arrester safety device. F. G. D. Muller. 2,157,298; May 9.
Flashlight testing device. J. J. McCoy and K. G. Gerdin. 2,157,344; May 9.
Flexible and safety coupling, Universal. B. Brownstein. 2,157,996; May 9.
Floor covering. W. S. Vrooman. 2,158,017; May 9.
Flower display box. E. L. Gould. 2,157,954; May 9.
Fluid flow control device. E. E. Frey. 2,157,405–6; May 9.
Fluids, Condensing. E. F. Renken. 2,157,436; May 9.
Fluorides from water, Removal of. O. M. Urbain and W. R. Stemen. 2,157,509; May 9.
Foam for fire extinction, Method of and apparatus for producing. A. V. Sammis. 2,158,015; May 15.
Fold-making machine. L. Hopkins. 2,157,900; May 9.
Food preparation and making the same. A. Wertheimer. 2,157,839; May 9.
Food product and making it. J. H. Forkner. 2,157,485; May 9.
Food product from distiller's slop, Self-preserving semi-solid. W. P. M. Greick. 2,158,043; May 9.
Foot protector. G. A. Moriarty. 2,157,423; May 9.
Footwear, Manufacture of. H. B. Gorman. 2,157,982; May 9.
Force measuring device. L. E. Wilson. 2,157,723; May 9.
Form, Concrete wall. J. Ornstead. 2,157,800; May 9.
Form for concrete and the like walls and method. S. Cascio. 2,157,688; May 9.
Fountain, Ink. H. C. Behrens. 2,157,587; May 9.
Fountain, Soda. F. H. Tweed. 2,157,154; May 9.
Frame: *See*—
Clothes drying frame. Umbrella frame.
Engine frame.
Friction clutch. H. W. McDonald. 2,157,211; May 9.
Friction sealing receptacle. R. P. Bumpass. 2,157,255; May 9.
Fruit and vegetable dicing apparatus. H. E. Gray. 2,157,604; May 9.
Fuel delivery apparatus for injection internal combustion engines. J. F. Janssen. 2,157,737; May 9.
Fuel feeding device for internal combustion engines. F. Egersdörfer. 2,157,284–5; May 9.
Fuel mixing device. C. J. Zagwyn. 2,157,809; May 9.
Fuels, Producing motor. C. R. Wagner. 2,157,224–5; May 9.
Furnace: *See*—
Continuous heating furnace. Oil-fired furnace.
Furnace and combustion chamber. F. O. Weeks. 2,157,195; May 9.
Furnace wall and part therefor, Boiler. J. H. Lawrence. 2,157,904; May 9.
Furnaces, Reversing apparatus for. G. A. Merkt. 2,157,771; May 9.
Fuse. O. B. Curry. 2,157,198; May 9.
Fuse. K. A. Lohausen. 2,157,907; May 9.
Fuse, Electric. K. A. Lohausen. 2,157,906; May 9.
Fuse, Electrical. H. A. Triplett. 2,157,152; May 9.
Game. J. T. and M. Bullen. 2,157,589; May 9.
Game, Apparatus for playing a. R. B. Hays. 2,157,172; May 9.
Game device. R. B. Rummel. 2,157,631; May 9.
Garment. J. Cohen. 2,157,784; May 9.
Gas, Apparatus for producing combustible. A. Holden and W. A. Brown. 2,157,487; May 9.
Gaseous mixtures, Purification and separation of. E. W. Zublin. 2,157,879; May 9.
Gases, Absorption of. G. L. Mateer and W. H. Rupp. 2,157,343; May 9.
Gases, Apparatus for compressing. V. Bush. 2,157,229; May 9.
Gases, Cooling. H. Baehr and K. Braus. 2,157,318; May 9.
Gases with adsorbent solids, Treatment of. S. Pexton, W. K. Hutchison, and F. M. Birks. 2,157,565; May 9.
Gasket, Reinforced laminated. J. H. and J. B. Victor. 2,157,102; May 9.
Gasoline and the like, Apparatus for and method of recovering. G. G. Urquhart. 2,157,579; May 9.
Gauge and alignment detector, Railway track. G. R. Pilasterer. 2,158,013; May 9.
Gauge system, Combination. D. F. Keith. 2,157,708; May 9.
Gauging apparatus for liquid containers. J. H. Wiggins. 2,157,196; May 9.
Gear: *See*—
Variable gear.
Gear for airplanes, Retractable landing. J. Mercier. 2,157,963; May 9.
Gear shifter, Fluid-pressure-operated. H. N. Durham. 2,157,328; May 9.
Gear shifting mechanism. R. H. Casler. 2,157,592; May 9.
Generator: *See*—
Surge generator.
Generator output regulator system. J. W. Fitz Gerald. 2,157,661; May 9.
Girder, Metallic. R. U. Geib, Jr. 2,157,233; May 9.
Glass applicator cap. G. W. Temple. 2,157,743; May 9.
Glass cleaner. J. W. Anderson. 2,157,314; May 9.
Glass strip, Drawing. A. Jollie. 2,157,759; May 9.
Glassware foot making machine. J. W. R. Hiteshew. 2,157,985; May 9.
Glove. I. Steinberger. 2,157,836; May 9.
Glue spreading machine. E. C. Zablocki. 2,157,724; May 9.
Glycols, Producing 1,4-ethylenic. T. H. Vaughn. 2,157,365; May 9.
Golf club, Practice. W. L. Jones. 2,157,415; May 9.
Governor. H. Kieser. 2,157,542; May 9.
Governor for automotive vehicles. J. Bellis. 2,157,472; May 9.
Governor, Universal motor speed. S. H. Swarthout. 2,157,640; May 9.
Grab, Police. J. E. Kirk. 2,157,612; May 9.
Grease, Lubricating. P. E. Burchfield. 2,157,647; May 9.
Grinding mill. B. Scherbaum. 2,157,462; May 9.
Guard and handle, Lamp. F. C. Kollath. 2,157,738; May 9.
Guard for primer valves. H. W. Klosterman. 2,157,545; May 9.
Gyrocompass, Constant period. F. D. Braddon. 2,158,048; May 9.
Halides, Treating polyvinyl. S. L. Brous. 2,157,997; May 9.
Handle, knob, or like construction. G. A. Tinnerman. 2,157,251; May 9.
Hanger: *See*—
Tubing hanger.
Harrow, Spring tooth. J. I. Hoke. 2,157,702; May 9.
Harvester and grinder, Combined. W. H. McElwain. 2,157,619; May 9.
Hasp for luggage locks. J. B. Freysinger. 2,157,730; May 9.
Hat retaining device. M. J. Solomons. 2,157,835; May 9.
Haymaker mechanism. G. Innes. 2,157,261; May 9.
Head rod holder. J. J. Munson. 2,157,717; May 9.
Heat bag. W. H. Foster. 2,157,169; May 9.
Heat exchanger. F. Welty. 2,157,744; May 9.
Heater: *See*—
Liquid heater.
Heating element, Electric. C. B. Backer. 2,157,884; May 9.
Heating system, Zone. H. R. Crago. 2,157,817; May 9.
Heel and sole for footwear, Detachable. B. T. Hewson 2,157,235; May 9.
Heel, Safety. J. Neumann. 2,157,184; May 9.
Hides with the aid of mold tryptases, Producing. O. Röhm. 2,157,969; May 9.
Hitch, Safety. W. F. Staggers. 2,157,639; May 9.
Hitch, Trailer. C. E. Galloway. 2,157,998; May 9.
Hitch, Trailer. D. H. Storey. 2,157,681; May 9.
Hoist. F. G. Welke. 2,157,734; May 9.
Holder: *See*—
Head rod holder. Necktie holder.
Jewel setting holder. Shingling gauge holder.
Knife holder. Stamp holder.
License plate holder.
Holder for pneumatic hammers, Tool. C. P. Whitlock. 2,157,444; May 9.
Hood for automobile vehicles or the like, Folding. M. Bessonneau. 2,157,783; May 9.
Hook: *See*—
Bait holder and hook.
Hook for watch wristlets, Attaching. E. Gauss. 2,157,288; May 9.
Hopper machines for stacking slide fastener elements. M. and M. J. Klessling. 2,157,709; May 9.
Horseshoe. W. P. Kearney. 2,157,826; May 9.
Humidifying apparatus for the treatment of wool yarn. W. H. Wilson. 2,157,975; May 9.
Hydraulic control valve. A. Keel. 2,157,707; May 9.
Hydraulic press. P. Hollstein. 2,157,539; May 9.
Hydraulic pumping jack. H. M. Salentine. 2,157,219; May 9.
Hydrocarbons, Connecting. H. C. Schutt. 2,157,220; May 9.
Hydrocarbons, Conversion of. A. V. Grosse and J. C. Morrell. 2,157,204; May 9.
Hydrocarbons, Conversion of. J. C. Morrell and A. V. Grosse. 2,157,940–1; May 9.
Hydrocarbons, Dehydrogenation of. A. V. Grosse. 2,157,202; May 9.
Hydrocarbons, Dehydrogenation of. A. V. Grosse and J. M. Mavity. 2,157,203; May 9.
Hydrocarbons, Dehydrogenation of. J. C. Morrell. 2,157,939; May 9.
Hypochlorites, Preparation of. I. E. Muskat and G. H. Cady. 2,157,558; May 9.
Hypochlorites, Preparing. I. E. Muskat and G. H. Cady. 2,157,559; May 9.
Illuminated structure. S. B. Kirby, Jr. 2,157,264; May 9.
Illuminator, Dark field. R. M. Shipley, Jr. 2,157,437; May 9.
Immersion apparatus, Automatic. E. C. Weiskopf. 2,157,875; May 9.
Incineration. J. C. Woodman. 2,157,993; May 9.
Index card carrier. F. L. G. Straubel. 2,157,358; May 9.
Indexing mechanism for automatic screw machines. A. F. Jelinek and W. E. Gross. 2,157,958; May 9.

Indicator: *See*—
Automobile direction indicator. Weighing scale indicator.
Inductive interference, Prevention of. W. H. Cuttino. 2,157,886; May 9.
Inductive interference, Prevention of. R. E. Marbury. 2,157,909; May 9.
Ingot for feeding machines. A. H. Jung. 2,157,097; May 9.
Injection engine. H. Fischer. 2,157,658–9; May 9.
Ink, Printing and setting a printing. C. J. MacArthur. 2,157,388; May 9.
Inking mechanism for printing presses and the like. J. Calcaterra. 2,157,256; May 9.
Insect destroyer. D. M. De Long. 2,157,953; May 9.
Insect exterminator. M. Berg. 2,157,449; May 9.
Instrument pointers, Making measuring. H. L. Bernarde. 2,157,845; May 9.
Insulation, Thermal. H. W. Greenup. 2,157,096; May 9.
Insulator. D. M. Morgenstern and J. Brasty. 2,158,012; May 9.
Insulator and the like, Glazed ceramic. D. H. Rowland. 2,157,100; May 9.
Intermediates for water-insoluble azo dyestuffs. F. Muth. 2,157,796–7; May 9.
Internal combustion engine. G. R. Langrognet. 2,157,764; May 9.
Internal combustion engine. J. P. Megroot. 2,157,297; May 9.
Internal combustion engine. L. L. Scott. 2,157,742; May 9.
Internal combustion engine, Reversible. E. O. P. Thege and J. H. W. Julius. 2,157,578; May 9.
Iodides, such as iodine from water, Recovery of. O. M. Urbain and W. R. Stemen. 2,157,508; May 9.
Iron, Making cast. W. J. Priestley. 2,157,390; May 9.
Ironing board, Foldable. G. T. Rieter. 2,157,675; May 9.
Irrigating apparatus. M. Irwin. 2,157,756; May 9.
Irrigator, Colonic. H. Lazarus. 2,157,614; May 9.
Jack: *See*—
Hydraulic pumping jack. Railroad lifting jack.
Jewel setting holder. W. M. and M. C. Hudgens. 2,157,789; May 9.
Joint for pipes and other metal members. R. W. Bailey. 2,157,885; May 9.
Juice-expressing device. H. B. Carlson. 2,157,161; May 9.
Ketones, Hydrogenation of. J. Blumenfeld. 2,158,040; May 9.
Key, Lock. P. W. Olson. 2,157,142; May 9.
Key-filing device. E. N. Howell. 2,157,788; May 9.
Knife holder. H. H. Hopkins. 2,157,412; May 9.
Lamp and incandescent lamp, Combined arc. H. J. Brunk. 2,158,026; May 9.
Lamp changer. F. C. Rethick. 2,157,563; May 9.
Last, Shoe. J. H. Stone. 2,157,439; May 9.
Latch: *See*—
Deadlocking latch.
Lawn and garden tool. S. Repasy. 2,157,346; May 9.
Lead alloy. F. Cuvelliez. 2,157,383; May 9.
Lead naphthenate, Basic. K. E. Long. 2,157,766; May 9.
Leg structure, Pressed metal. H. T. Hallowell and F. A. Bennett. 2,157,955; May 9.
Lenses, Making. R. W. Luce. 2,157,209; May 9.
Lever, Hand brake. A. P. Ferguson. 2,157,850; May 9.
Lever, Throttle control. D. Koonce. 2,157,792; May 9.
License plate holder. C. Tilton. 2,157,806; May 9.
Light: *See*—
Motor vehicle light.
Lighting fixture. F. C. Winkler. 2,157,945; May 9.
Light-sensitive cell manufacture. C. S. Treacy. 2,157,506; May 9.
Liquid dispenser. G. Reisinger and J. Farkas. 2,157,966; May 9.
Liquid dispensing apparatus. H. Wydler. 2,157,745; May 9.
Liquid heater. F. H. McCormick. 2,157,910; May 9.
Liquids and viscous materials, Apparatus for delivering. T. C. E. Rowland and H. Parker. 2,157,970; May 9.
Lock: *See*—
Nut lock. Sliding groove lock.
Lock for elevator doors. H. H. Vanderzee. 2,157,930; May 9.
Locomotive, Electric. A. M. Rössman. 2,157,928; May 9.
Loom. A. V. Pullins. 2,157,304; May 9.
Loom reed. S. S. Holland. 2,157,173; May 9.
Lubricants, Extreme pressure. A. J. van Peski and F. R. Moser. 2,157,873; May 9.
Lubricating compositions, Extreme pressure. R. L. Humphreys. 2,157,452; May 9.
Lubricating means. J. L. Creveling. 2,157,402–3; May 9.
Lubricating system for internal combustion engines. S. L. Walden. 2,157,513; May 9.
Luggage, Hand. O. H. Plotkin. 2,157,833; May 9.
Lyes and their manufacture, Mercerizing. H. Lier. 2,157,294; May 9.
Machine for cleansing and treating. D. E. Bonner. 2,157,112; May 9.
Machine for cutting gears. R. S. Drummond. 2,157,981; May 9.
Machine for forming compressed feeds and similar products. D. Crabtree. 2,157,528; May 9.
Machine for forming seams. J. P. Weis. 2,157,368; May 9.
Machine for leveling wegs. J. Menschner. 2,157,556; May 9.
Machine for molding and embossing sweets. H. Thürlings. 2,157,467; May 9.
Machine for sizing leather belts. J. A. Webb. 2,157,874; May 9.
Machine tool. J. B. Armitage. 2,157,471; May 9.
Machine tool. W. R. Knox. 2,157,762; May 9.
Machine tool. A. A. Manning. 2,157,241; May 9.
Magnesium alloy. F. Christen. 2,157,322; May 9.
Magnet for organs. D. Marr. 2,158,010; May 9.
Magnetic apparatus, Adjustable. P. D. Crout. 2,157,324; May 9.
Magnetic valve. L. A. Cole. 2,157,480; May 9.
Magneto assembly for internal combustion engines, Flywheel. E. N. Jacobi. 2,157,666; May 9.
Manometer switch. P. L. Lenz. 2,157,905; May 9.
Mapping device. G. A. Schulze. 2,157,634; May 9.
Marine boiler. H. T. Dyer and J. A. Barnes. 2,157,751; May 9.
Marking machine. H. E. Elliott and F. C. Choice. 2,157,200; May 9.
Marking machine. W. S. Petty. 2,157,497; May 9.
Massaging apparatus, Mechanical. S. Benson. 2,157,395; May 9.
Material and making same, Artificial. G. W. Seymour. 2,157,190; May 9.
Material and the like, Apparatus for coating textile. C. Emmey. 2,157,286; May 9.
Material, Apparatus for producing decorative. I. J. Wisoff. 2,157,583; May 9.
Material, Impervious sheet. G. A. Moore. 2,157,212; May 9.
Material in bar forms, such as toffee in wrapping machines, Apparatus for feeding plastic. A. G. Rose. 2,157,676; May 9.
Material, Making cellular. C. J. McKinney. 2,158,033; May 9.
Material, Manufacture of diazo type. W. M. Hinman. 2,157,206; May 9.
Material, Process of and apparatus for producing covering. A. B. Walton. 2,157,944; May 9.
Materials, Apparatus for conveying particulate. J. H. Jeffery and C. B. Matt. 2,157,339; May 9.
Materials for removal of certain halide ions from water, Producing. O. M. Urbain and W. R. Stemen. 2,157,507; May 9.
Materials from animal tissues, Extracting physiologically active. H. L. Keil. 2,157,133; May 9.
Materials, Preservation of fermentable. T. S. Carswell. 2,157,113; May 9.
Materials rich in sulphur, Roasting. N. S. Borch. 2,157,254; May 9.
Matrix molding machine. H. N. Durham. 2,157,327; May 9.
Measurement means, High voltage. E. Hubel. 2,157,823; May 9.
Meat cutting machine. A. C. Van Hooydonk. 2,157,780; May 9.
Meat stuffer. G. R. Napier. 2,157,494; May 9.
Metal bodies, Method and apparatus for desurfacing ferrous. J. H. Bucknam. 2,157,095; May 9.
Metal compositions, Refractory. F. R. Hensel and K. L. Emmert. 2,157,935–6; May 9.
Metal elements, Making porous. J. H. Davis. 2,157,596; May 9.
Metal plates, Embossing. D. W. Sherman. 2,157,354; May 9.
Metal powders, Electrolytic. C. Hardy and C. L. Mantell. 2,157,699; May 9.
Metal salts and making, Basic. K. E. Long. 2,157,767; May 9.
Metal stock while in transmit, Conditioning. F. W. Alles and F. N. Sarber. 2,157,313; May 9.
Metal surfaces, Hardening of. H. H. Beeny. 2,157,948; May 9.
Metal to wood, Uniting sprayed. A. Koyemann. 2,157,456; May 9.
Metals, Apparatus for casting. K. A. Lindner. 2,157,550; May 9.
Metals with silicon, Impregnation of. H. K. Ihrig. 2,157,902; May 9.
Metals, Uniting. W. K. Rankin. 2,157,918; May 9.
Meter: *See*—
Photoelectric exposure meter.
Microwave oscillator and detector. E. G. Linder. 2,157,179; May 9.
Microphone. E. Severin. 2,157,720; May 9.
Microphone, Thermionic. F. L. Pulaski. 2,157,719; May 9.
Milk bottle cap. J. R. Gammeter. 2,157,601; May 9.
Mill: *See*—
Grinding mill.
Mill control, Rolling. W. C. McBain. 2,157,739; May 9.
Mine pump. J. F. Joy. 2,157,132; May 9.
Mirror, Rear view. W. La Hodny. 2,157,613; May 9.
Mixer and mold, Combination material. G. C. Rauch. 2,157,217; May 9.
Mop, Mitten. W. Hertzberg. 2,157,700; May 9.

Motion, System for the electrical transfer of rotary. K. Beyerle. 2,157,094; May 9.
Motor: *See*—
Electric motor. Synchronous motor.
Motor. J. C. Curtis. 2,157,120; May 9.
Motor circuit. V. A. Partz. 2,157,430; May 9.
Motor control system for a traffic signal. H. B. Shaw. 2,157,636; May 9.
Motor lubricating system. J. Freistadter. 2,157,752; May 9.
Motor modulator. L. S. Reagan. 2,157,245; May 9.
Motor vehicle. P. F. Rossmann. 2,157,499; May 9.
Motor vehicle light. L. Urge. 2,157,361; May 9.
Motors, Method of and means for cooling. J. B. Sinnett. 2,157,191; May 9.
Mounting: *See*—
Ophthalmic mounting.
Mounting with temperature compensation, Crystal. H. E. Hollmann. 2,157,665; May 9.
Mower attachment. W. L. McGrath, M. P. Ferguson, M. P. Whitney, and D. L. Wertz. 2,157,620; May 9.
Muffler. E. S. Cornell, Jr. 2,157,115; May 9.
Muffler. E. D. Latulippe. 2,158,030; May 9.
Necktie holder. J. J. Nugent. 2,157,623; May 9.
Needle bed. R. H. Lawson. 2,157,546; May 9.
Nest, Poultry. L. Lindenberg. 2,157,490; May 9.
Niggerhead. H. J. Troche. 2,157,153; May 9.
Nitro compounds, Catalytic reduction of. B. M. Vanderbilt. 2,157,391; May 9.
Nitrohydroxy compounds, Hydrogenation of. K. Johnson. 2,157,386; May 9.
Nozzle, Douche. F. Rissinger. 2,157,802; May 9.
Nutcracker. W. A. Settle. 2,157,501; May 9.
Nut lock. L. F. Pierce. 2,157,672; May 9.
Oil burner. P. Pothier and E. Vigneault. 2,157,265; May 9.
Oil compositions, Inhibitors therefor, and manufacturing the same, Lubricating. T. L. Cantrell and J. G. Peters. 2,157,479; May 9.
Oil extraction, Hydrocarbon. S. W. Ferris. 2,157,821; May 9.
Oil-fired furnace. J. W. Westwick. 2,157,643; May 9.
Oil grooving machine. A. F. Fischer. 2,157,484; May 9.
Oil retainer. W. B. D. Pennihan. 2,157,626; May 9.
Oils, Lubricating. B. H. Lincoln and A. Henriksen. 2,157,134; May 9.
Oils, Purifying animal and vegetable. D. I. Ashworth 2,157,882; May 9.
Oils, Sweetening hydrocarbon. E. D. Sutton. 2,157,223; May 9.
Ophthalmic mounting. E. L. Schumacher. 2,157,247; May 9.
Optical apparatus. E. N. Anketell. 2,157,157; May 9.
Optical system. G. L. Dimmick. 2,157,166; May 9.
Optical system for stereoscopic motion picture production and projection. C. G. Rosenhauer. 2,157,099; May 9.
Oscillation circuit, Photoelectric cell. H. A. Iams. 2,157,824; May 9.
Oscillator. M. Geiger. 2,157,533; May 9.
Oscillator circuit. J. L. Potter. 2,157,434; May 9.
Oscillator, Relaxation. P. Drewell and E. Steudel. 2,157,529; May 9.
Oven, Drying. D. Milan. 2,157,938; May 9.
Package. G. S. Frost. 2,157,407; May 9.
Package, Commercial. H. J. Quinlan. 2,157,740; May 9.
Packages, Apparatus for testing textile. R. Little and F. W. Fralm. 2,157,135; May 9.
Packaging. G. R. Webber, P. W. Fleischer, and G. W. von Hofe. 2,157,194; May 9.
Packaging. G. R. Webber and T. R. Baxter. 2,157,193; May 9.
Packet for safety razor blades. A. J. Farmer. 2,158,049; May 9.
Packing device. D. D. Robertson and G. L. Briggs. 2,157,865; May 9.
Packing device, stuffing box, and the like. J. Mercier. 2,157,299; May 9.
Packing, Valve stem. D. D. Robertson and G. L. Briggs. 2,157,866–7; May 9.
Pad: *See*—
Applicator pad.
Padding, Ironer roll. W. D. Ellis, III. 2,158,006; May 9.
Padlock, Permutation. H. L. McInturff. 2,157,555; May 9.
Paint. W. T. Hancock. 2,157,205; May 9.
Pan, Draining drying. W. R. and I. L. Penrose. 2,157,303; May 9.
Panel. T. J. Collernn. 2,157,162; May 9.
Panels, Making building. O. Neesen and F. A. Siess. 2,157,622; May 9.
Parachute harness. F. Smith. 2,157,504; May 9.
Parachute Pack. F. Smith. 2,157,505; May 9.
Paraffin waxes and compositions thereof, High melting point. J. M. Page, Jr. 2,157,625; May 9.
Parasiticidal compositions. A. A. Nikitin and J. F. Adams. 2,157,861; May 9.
Paste to the plates of electric batteries, Attaching. F. MacCallum. 2,157,961; May 9.
Patch, Making a. T. W. Mullen. 2,157,183; May 9.
Pattern means for knitting machines. R. H. Lawson. 2,157,989; May 9.
Paving process. F. S. Fleckenstein. 2,157,330; May 9.
Pedal depressor. J. L. Shroyer. 2,157,355; May 9.
Permit mailing and stamping machine. R. S. Nilsson. 2,157,495; May 9.
Pessary. P. L. Clark, Jr. 2,157,689; May 9.
Photoelectric exposure meter. O. Fischer. 2,157,660; May 9.
Photographic contact printing apparatus. H. L. Dazey. 2,158,001; May 9.
Photographic developing machine. S. Hershberg. 2,157,128; May 9.
Photographic view finder. L. Leitz. 2,157,548; May 9.
Phthalic anhydride, Producing. A. Pongratz. 2,157,965; May 9.
Pictures, Method of and apparatus for producing stereoscopic. C. F. Mendez. 2,157,138; May 9.
Piezoelectric apparatus. S. C. Hight. 2,157,701; May 9.
Piezoelectric apparatus. O. M. Hovgaard and L. F. Koerner. 2,157,703; May 9.
Piezoelectric crystal. J. M. Wolfskill. 2,157,808; May 9.
Pigments and other particles, Freely flowing suspensions of. V. R. Abrams. 2,157,378; May 9.
Pigments, Producing red chromium. E. Lederle. 2,157,712; May 9.
Pipe, Method and machine for making. A. P. Knapp. 2,157,988; May 9.
Piston for barrel engines, Wobbler actuating. H. Alfaro 2,157,586; May 9.
Pitter, fruit. G. W. Ashlock, Jr. 2,157,518; May 9.
Plant protector. S. N. Slade, Sr. 2,157,502; May 9.
Plants, Supporting potted. L. H. Jones. 2,157,340; May 9.
Plastic composition, Making a. M. R. Ximenez. 2,157,645; May 9.
Plastic masses, Manufacture of. M. Hagedorn. 2,157,697; May 9.
Plate structure, Trussed. E. H. Wells, Jr. 2,157,374; May 9.
Plier, Stapling. E. C. Johnson. 2,157,987; May 9.
Plug: *See*—
Twin contact plug.
Plug and jack construction T. J. Obszarny. 2,157,428; May 9.
Pole, Ski. J. McArthur. 2,157,420; May 9.
Polyamides, Steam treatment of. J. B. Miles, Jr. 2,157,117; May 9.
Polymerization and catalyst therefor. V. Ipatieff and R. E. Schaad. 2,157,208; May 9.
Pot, Cinder. A. D. Davies. 2,157,748; May 9.
Potassium nitrate, Preparation of. J. Dessèvre, L. Durepairs, and B. Quanquin. 2,157,260; May 9.
Power supply system. R. H. George, H. J. Heim, and J. W. Hammond. 2,157,534; May 9.
Power system. D. W. McLenegan. 2,157,830; May 9.
Power system. G. F. Smith. 2,157,869; May 9.
Power system. M. A. Whiting and D. W. McLenegan. 2,157,840; May 9.
Power system and control therefor. C. G. Sults. 2,157,926; May 9.
Power transmission. T. B. Doe and E. L. Rose. 2,157,692; May 9.
Power transmission. C. E. Grosser. 2,157,852; May 9.
Power transmission control. A. Madlé. 2,157,267; May 9.
Power transmission mechanism. E. T. Shaw. 2,157,352; May 9.
Power transmission mechanism. H. A. Smitt. 2,157,465; May 9.
Power transmission mechanism, Hydromechanical. F. W. Cotterman. 2,157,230; May 9.
Press: *See*—
Hydraulic press. Printing press.
Presser foot device. J. P. Weis. 2,157,372; May 9.
Priming mixtures. W. A. Lazier. 2,157,669; May 9.
Print washing and fixing device, Combined. R. H. Takase. 2,157,804; May 9.
Printer's roller. J. Streckfus, L. Schmidt, and H. Godwin. 2,157,440; May 9.
Printing. A. E. Gessler, A. F. Guiteras, and C. F. Clarkson. 2,157,385; May 9.
Printing machine. D. C. Daubmeyer. 2,157,980; May 9.
Printing press. H. G. Rogers. 2,157,803; May 9.
Printing telegraph apparatus. R. E. Zenner. 2,157,517; May 9.
Pronged-device connector. W. W. Robinson. 2,157,188; May 9.
Prop, Mine. F. M. Wittman and H. H. Parrack. 2,158,018; May 9.
Propeller governor. M. W. Rosner. 2,157,340; May 9.
Propelling device. H. Coanda. 2,157,281; May 9.
Protective arrangement for electric valve converting systems. C. Fröhmer. 2,157,851; May 9.
Protector: *See*—
Condenser tube protector. Plant protector.
Foot protector.
Pump: *See*—
Deep well pump. Mine pump.
Pump and pumping system. H. S. Murray. 2,157,141; May 9.
Pumping rig. A. N. Porter. 2,157,628; May 9.
Rack: *See*—
Bimetallic ice rack. Book rack.
Radio control device. E. L. Lehnus. 2,157,291; May 9.
Radio telephone system. D. A. Heisner. 2,157,234; May 9.

Railroad lifting jack. I. Okuda. 2,157,214; May 9.
Rayon, Manufacture of cuprammonium. F. J. Samerdyke. 2,157,148; May 9.
Razor. C. Livingston. 2,157,492; May 9.
Receiver, Battery-operated. P. F. G. Holst. 2,157,899; May 9.
Receiver for observing two different signals. W. Runge. 2,157,677; May 9.
Receptacle: *See*—
Friction sealing receptacle.
Receptacles, Making. E. R. MacDonald and E. S. Irelan. 2,157,794; May 9.
Recorder, Facsimile ink. N. E. Lindenblad. 2,157,549; May 9.
Recorder, Radio station. L. F. Woodruff. 2,157,584; May 9.
Recording system. W. J. Albersheim and W. J. Sette. 2,157,880; May 9.
Rectifier, Diode. W. R. Koch. 2,157,856; May 9.
Reel: *See*—
Cable reel.
Refractory, High temperature. J. D. Morgan and R. E. Lowe. 2,158,035; May 9.
Refrigerating apparatus. D. O. Cameron. 2,157,590; May 9.
Refrigerating apparatus. R. E. Gould. 2,157,754; May 9.
Refrigerator door. R. H. Schielke. 2,157,678; May 9.
Regenerating structure and method. E. J. McDonnell. 2,157,553; May 9.
Regulating device for current rectifying apparatus, Automatic. H. Alriq. 2,157,977; May 9.
Regulating system. F. H. Gulliksen and J. W. Dawson. 2,157,893; May 9.
Res'stor. L. L. Stoffel. 2,157,777; May 9.
Resin and making same. Pecto phenolic synthetic. R. Holzcker. 2,157,488; May 9.
Retarded switch. L. E. Hansen. 2,157,664; May 9.
Road-rail vehicle. F. K. Fildes. 2,157,651; May 9.
Rod: *See*—
Zinc ground rod.
Roll, Abrading. E. E. Price. 2,158,014; May 9.
Rolling-in machine. G. A. Visser, F. E. Deremer, and J. T. Sprott. 2,157,252; May 9.
Roofing. J. Schlösinger. 2,157,189; May 9.
Rope coupling. A. E. Brickman and G. A. Gleason. 2,157,227; May 9.
Rubber process and product. T. L. Shepherd. 2,157,463; May 9.
Rubber vulcanization. A. M. Clifford. 2,158,019; May 9.
Rubber vulcanization. J. G. Lichty. 2,158,021–2; May 9.
Rule, Collable measuring. A. L. Stowell. 2,158,024; May 9.
Safety device for boilers. F. L. Cormier and H. L. Larson. 2,157,163; May 9.
Safetypin. S. C. Porter. 2,157,433; May 9.
Salt solution feeding apparatus. C. V. Swearingen. 2,157,466; May 9.
Scraper. J. W. Thompson. 2,157,805; May 9.
Scraper. J. S. Walch. 2,157,311; May 9.
Scraper, Tractor wheel. H. G. Yetter. 2,157,253; May 9.
Scraper, Wall. M. Miller and L. N. Davis. 2,157,493; May 9.
Screen apparatus. G. A. Overstrom. 2,157,562; May 9.
Scrip cover. D. E. Graham. 2,157,603; May 9.
Seal. D. A. Boyd. 2,157,995; May 9.
Seal. B. S. Glougie. 2,157,983; May 9.
Sealing surface member. N. K. Chaney and E. F. Kiefer. 2,157,526; May 9.
Semitrailer load handling machine mechanism. R. H. Zellman. 2,157,376; May 9.
Separable fastener. A. E. Carlile. 2,157,381; May 9.
Separator. C. W. Metzgar. 2,157,829; May 9.
Service station, Air and water. H. G. Davis. 2,157,887; May 9.
Sewing machine. J. P. Weis. 2,157,369; May 9.
Sewing machines, Feeding mechanism for. J. P. Weis. 2,157,370; May 9.
Sewing machines and parts thereof, Lubricating system for. J. P. Weis. 2,157,371; May 9.
Sewing machines, Thread handling device for. J. P. Weis. 2,157,373; May 9.
Shaft construction. W. H. Fritz. 2,157,662; May 9.
Shafts, Means for sealing. S. F. Dupree, Jr. 2,157,597; May 9.
Sheet feeding apparatus. Y. A. F. Danielsson. 2,157,849; May 9.
Sheets, Joining. T. E. Piazze. 2,157,732; May 9.
Sheeting of plastic substances such as sugar confectionery. H. Thürlings. 2,157,192; May 9.
Shield for electrical outlets. A. C. Heise and M. W. Jacobi. 2,157,957; May 9.
Shoe. J. E. Disch. 2,157,818; May 9.
Shoe bottom pressing machine. K. Engel and C. S. Kinney. 2,157,123; May 9.
Shingling gauge holder. J. H. Glebink. 2,157,663; May 9.
Shutter operating mechanism for registers of liquid dispensing apparatus. W. H. De Lancey. 2,157,258; May 9.
Shoveling machine. R. R. Dooley and C. H. Brown. 2,157,736; May 9.
Signal for toy railroads, Block. R. A. Hathaway. 2,157,171; May 9.
Signal transmission line, Electric. A. D. Blumlein. 2,157,522; May 9.
Signal transmision system. S. Doba, Jr. 2,157,326; May 9.
Signaling system. M. L. Nelson. 2,157,860; May 9.
Signaling system, Fire alarm. P. P. Horni. 2,157,237; May 9.
Signaling system, Traffic. P. P. Horni. 2,157,236; May 9.
Silicon carbide abrasive product and manufacture. L. H. Milligan and R. H. Lombard. 2,158,034; May 9.
Single use tube. E. H. Barker. 2,157,646; May 9.
Sink. H. G. Coordes. 2,157,785; May 9.
Sink and table assembly. H. G. Coordes. 2,157,786; May 9.
Ski. L. G. Currier. 2,157,325; May 9.
Skirt, Maternity. E. H. Glover. 2,157,932; May 9.
Sled knee. O. B. McNees. 2,157,962; May 9.
Sliding clasp fastener. J. Kuna. 2,157,828; May 9.
Sliding groove lock. J. H. Arkus. 2,157,316; May 9.
Sock. N. Cohn. 2,157,399; May 9.
Soils, Solidifying. J. van Hulst and G. H. van Leeuwen. 2,158,025; May 9.
Song interpreter, Visual. P. Fine. 2,157,168; May 9.
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Spectrophotometry. R. H. Park. 2,157,389; May 9.
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Speed-up and speed-down for rotaries. R. R. Bloss. 2,157,728; May 9.
Spindle. A. Marchev. 2,157,419; May 9.
Splitter, Stump. R. R. Dunagin. 2,157,483; May 9.
Sponge, Making soft. H. R. Minor. 2,157,243; May 9.
Spray, Apparatus for producing a. F. Y. Wheeler. 2,157,581; May 9.
Spray extractor. G. Raymond. 2,157,305; May 9.
Sprayer. G. Zumft. 2,157,726; May 9.
Spring. J. P. Burke. 2,158,028; May 9.
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Spring cover. S. W. Lippitt. 2,157,418; May 9.
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Stand. F. J. Hruska and E. D. Greedy. 2,158,020; May 9.
Steam trap. T. N. Adlam. 2,157,470; May 9.
Steel alloy, Scale-resisting. G. Riedrich. 2,157,146; May 9.
Steel, Free machining open hearth. J. A. Ridgely. 2,157,673; May 9.
Steel, Hack saw. H. A. Pavitt. 2,158,036; May 9.
Steel, Manufacturing a free machining case-hardening. J. A. Ridgely. 2,157,674; May 9.
Stenciling apparatus. L. D. Soubier. 2,157,638; May 9.
Stocking and producing same. W. H. Carothers. 2,157,116; May 9.
Stove and range. C. H. and R. F. Hoffstetter. 2,157,608; May 9.
Stovepipes, Apparatus for assembling. S. F. Jackes. 2,157,337; May 9.
Straightening machine. W. E. Kane. 2,157,760; May 9.
Strain absorber with lace stitch, Elastic. H. B. Snader. 2,157,464; May 9.
Strips through perforated materials, Device for drawing. J. T. Conklin. 2,157,593; May 9.
Structural elements, Arrangement for connecting. G. Hossenfelder. 2,157,986; May 9.
Structures produced from fibrous masses derived from animal hide substances, Hardening. O. W. Becker. 2,157,319; May 9.
Substances containing tungsten sulphide, Decomposition of. P. H. Gericke, H. H. v. Baumbach, and F. Berndt. 2,157,332; May 9.
Supercharger for internal combustion motor. F. F. Kishline. 2,157,761; May 9.
Superheater boiler. W. H. Armacost. 2,157,746; May 9.
Supporter. J. J. Keys. 2,157,454; May 9.
Surge generator. R. Tröger. 2,157,929; May 9.
Suspensions for coating and other purposes. V. R. Abrams. 2,157,380; May 9.
Suspension for drawers and analogous devices. J. R. Jones and V. A. Gronberg. 2,157,611; May 9.
Suspensions for lubricating and other purposes. V. R. Abrams. 2,157,379; May 9.
Swatter, Fly. D. Baker. 2,157,106; May 9.
Switch: *See*—
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Switch. P. B. Hoye. 2,157,174; May 9.
Switch device, Electromagnetic. J. E. Farrell. 2,157,787; May 9.
Switch structure, Foot actuated. H. V. Phelps. 2,157,942; May 9.
Switches, Control of electric. H. Bany. 2,157,810; May 9.
Switching arrangement for high frequency apparatus. G. M. Wright. 2,157,312; May 9.
Switching device. J. W. Dehn and O. Myers. 2,157,890; May 9.

Synchronous motor. A. C. Reid and H. J. McCreary. 2,157,435; May 9.
Synchronization testing device. R. E. Worstell. 2,157,878; May 9.
Syringe, Ampoule. A. E. Smith. 2,157,503; May 9.
T and making same, Welding. J. H. Williams. 2,157,274; May 9.
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Turning table. Work table.
Tablets, Apparatus for making. J. A. Raynolds, Jr. 2,157,570; May 9.
Tank heads and closure members therefor, Making. G. E. Bullock. 2,157,978; May 9.
Tape applying machine. W. P. Osgood. 2,157,916; May 9.
Taping machine. F. H. Brite. 2,157,735; May 9.
Telephone jack box for chair arms. C. A. Clarke and J. A. Malmuth. 2,157,527; May 9.
Telephone pay station. G. A. and W. W. Long. 2,157,617; May 9.
Telephone system. T. F. Crocker. 2,157,848; May 9.
Television communication, Method and system for. A. B. Du Mont. 2,157,749; May 9.
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Television scanning system. G. W. Walton. 2,157,468; May 9.
Tenter machine. J. H. Williams, Jr. 2,157,644; May 9.
Textile printing machine. M. N. Bulford. 2,158,027; May 9.
Thermionic vacuum tube. J. F. Cudney. 2,157,595; May 9.
Thermionic valve. W. Dällenbach. 2,157,952; May 9.
Thermometer. C. R. Palmer. 2,158,045; May 9.
Thermostat. P. R. Lee. 2,157,857; May 9.
Thermostat and mounting the same. E. L. Mayo. 2,157,770; May 9.
Throttle control device. H. H. Merriman. 2,157,652; May 9.
Tie construction. I. Marinsky. 2,157,618; May 9.
Tile and setting the same. C. F. Glaser. 2,157,201; May 9.
Tire grooving tool. E. H. Stackhouse. 2,157,151; May 9.
Tire removing tool. G. Van Zale. 2,157,443; May 9.
Tire retreading device. A. Riccio. 2,157,967; May 9.
Tobacco leaf cutting machine. H. W. Langrish. 2,157,457; May 9.
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Tongs, Spinning rope pipe. R. H. Jackson. 2,157,338; May 9.
Tool for stuffing boxes and the like, Facing. C. Wiessner. 2,157,375; May 9.
Tooth brush retainer. B. and J. Oshman. 2,157,862; May 9.
Torch for welding, cutting, and the like. C. R. Richter. 2,157,269; May 9.
Torque release wrench. W. M. Siesel. 2,157,574; May 9.
Torsion testing machine. R. Lapsley. 2,157,903; May 9.
Toy, Mechanical. F. A. Decker. 2,157,889; May 9.
Toy typewriter. S. R. Beil. 2,157,108; May 9.
Toy weapon. R. Lohr. 2,157,181; May 9.
Tractor. F. H. Lamb. 2,157,711; May 9.
Tractor cultivator. F. C. Stancil. 2,157,273; May 9.
Tractor mounted implement. W. J. Coultas. 2,157,323; May 9.
Traffic controlling system for railroads, Centralized. R. M. Phinney. 2,157,864; May 9.
Trailer-boat, Convertible. J. Pinter, Sr., and J. Pinter, Jr. 2,157,186; May 9.
Train coupling system, Remotely controllable automatic. W. E. Rexford. 2,157,187; May 9.
Transformer. M. Schwaiger. 2,157,922; May 9.
Transformer tap-changing mechanism, Polyphase. K. Bölte. 2,157,814; May 9.
Transmission and control. L. E. Godfriaux. 2,157,892; May 9.
Transmission, Double toric friction. J. H. Hunt. 2,157,238; May 9.
Transmission level control. H. J. Fisher. 2,157,694; May 9.
Transmitting and amplifying systems. L. A. Molin and T. Le Baron. 2,157,140; May 9.
Trap: *See*—
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Trap for sewing and other machines, Dust. H. E. Young. 2,157,176; May 9.
Tube: *See*—
Electric discharge tube. Thermionic vacuum tube.
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Tubing, Apparatus and method for corrugating metal. J. Fentress and A. Dreyer. 2,157,598; May 9.
Tubing hanger. R. A. Mueller. 2,157,964; May 9.
Tubing head and braden head, Combined. K. T. and A. J. Penick. 2,157,496; May 9.
Tubular container, Collapsible. E. C. Godfrey. 2,157,891; May 9.
Tuning fork driving means. E. Norrman. 2,157,799; May 9.
Tuning system for ultra-high-frequency radio apparatus. W. R. Koch. 2,157,855; May 9.
Turbine elements, Making. H. F. Schmidt. 2,157,679; May 9.
Turbine rotor. E. Kliemann. 2,157,827; May 9.
Turbine shaft and disk structure and the like, Elastic fluid. D. F. Warner. 2,157,838; May 9.
Turning table. A. E. Vosler. 2,157,642; May 9.
Turntable. G. A. Dodge, C. L. Meinholdt, and H. H. Mack. 2,157,404; May 9.
Twin contact plug. F. L. Reese. 2,157,919; May 9.
Type-composing machine, Photographic. L. Wenczler. 2,158,039; May 9.
Typewriting machine. H. J. Hart. 2,157,607; May 9.
Typographical machine. R. R. Mead. 2,157,795; May 9.
Umbrella, Folding. H. Haupt. 2,157,335; May 9.
Umbrella frame, Foldable. S. Ono. 2,157,670; May 9.
Undergarment with elastic neck band, Knit. J. H. Crossingham. 2,157,482; May 9.
Urethane substances containing carboxyl or sulphonic acid groups, Producing. H. Ulrich and P. Koerding. 2,157,362; May 9.
Utility tool. W. R. Cothern. 2,157,481; May 9.
Vacuum cleaner. C. O. Ernolf. 2,157,693; May 9.
Vacuumizing device for containers. G. J. Overmyer. 2,157,624; May 9.
Valve: *See*—
Bottle filling valve. Magnetic valve.
Hydraulic control valve. Thermionic valve.
Valve actuating mechanism. G. D. Johnson. 2,157,263; May 9.
Valve converting system, Electric. C. C. Herskind. 2,157,897; May 9.
Valve for feed water heaters. E. Rawson. 2,157,774; May 9.
Valve for internal combustion engines. R. Jardine. 2,157,610; May 9.
Valve for internal combustion engines, Fuel. C. Retschy. 2,157,571; May 9.
Valve for pump suction lines, Foot. W. K. McFarlin. 2,157,554; May 9.
Valve means. A. C. Andreasen. 2,157,881; May 9.
Valve stems and apparatus therefor, Packing. D. D. Robertson and G. L. Briggs. 2,157,868; May 9.
Valve structure. A. Keel. 2,157,240; May 9.
Vane instrument, Repulsion. D. A. Young and H. L. Bernarde. 2,157,947; May 9.
Vapor discharge device, Metallic. W. Nehls. 2,157,913; May 9.
Variable gear. A. L. Steinkamp. 2,157,776; May 9.
Vehicle: *See*—
Motor vehicle. Road-rail vehicle.
Vehicle construction. K. K. Probst. 2,157,773; May 9.
Vehicles from one use to the other, Converting road-rail. F. K. Fildes. 2,157,650; May 9.
Velocipede structure. S. A. Snell. 2,157,971–2; May 9.
Velocity measuring device. W. V. Roberts. 2,157,572; May 9.
Ventilator. C. C. Hopkins. 2,157,609; May 9.
Venting device. C. W. Shaw. 2,157,635; May 9.
Vibrating mechanism, Pneumatic. S. W. Warner and L. B. Case. 2,157,367; May 9.
Vibrator, Electromagnetic. C. Brandenburg. 2,157,279; May 9.
Volume control. K. Müller. 2,157,557; May 9.
Wall structure, Concrete. E. E. Schmeller. 2,157,271; May 9.
Warning system for indicating the proximity of aircraft. F. W. Dunmore. 2,157,122; May 9.
Washer. L. A. Young. 2,157,516; May 9.
Washing apparatus. F. A. Walker and E. S. Stoddard. 2,157,943; May 9.
Washing machine. W. E. Fulton. 2,157,695; May 9.
Watch box. E. Lux. 2,157,990; May 9.
Water cooler. G. J. Wiggenhorn. 2,157,446; May 9.
Weed extractor. E. A. Olson. 2,157,915; May 9.
Weighing and rejecting machine, Automatic. J. B. Smith. 2,158,023; May 9.
Weighing and weight change indicating device. W. B. Jones. 2,157,706; May 9.
Weighing machine. A. C. Schroeder. 2,157,577; May 9.
Weighing scale indicator. W. B. Jones. 2,157,705; May 9.
Weld trimming apparatus. G. Spatta. 2,157,680; May 9.
Welder, Movable core alternating-current arc. E. F. Steinert. 2,157,871; May 9.
Welding composition. C. A. Williams. 2,157,447; May 9.
Welding, Method and apparatus for. A. Longoria. 2,157,769; May 9.
Well into production, Apparatus for bringing a. W. L. Church. 2,157,729; May 9.
Wheel: *See*—
Stamped metal wheel.
Wheel. W. J. Coultas and N. F. Andrews. 2,157,691; May 9.
Wheel disk, Ornamental. G. A. Lyon. 2,157,136; May 9.
Wheel disk, Ornamental. G. A. Lyon. 2,157,960; May 9.
Wheel disk structure, Ornamental. G. A. Lyon. 2,157,908; May 9.
Wheels of abrasive material, Manufacturing grinding. G. E. Vance. 2,157,779; May 9.
Winding and winding apparatus. H. R. Hawgood. 2,157,984; May 9.
Winding machine. E. J. Abbott. 2,157,105; May 9.
Window construction. R. B. Nelson. 2,157,425–6; May 9.

Window for stoves. D. J. Howard. 2,157,413; May 9.
Window, Pilot-house. W. L. Kraemer. 2,157,210; May 9.
Wiper, Back mold. W. H. Sibley. 2,157,356; May 9.
Wire connector. J. P. Burke. 2,158,029; May 9.
Wire drawing. D. S. Starring and G. B. Horn. 2,158,038; May 9.
Wire line swing. W. C. Trout. 2,157,442; May 9.
Work attachment, Circular. J. W. Ward. 2,157,310; May 9.
Work table. D. H. Chason. 2,157,648; May 9.
"Wow", Method for determining. W. F. Wichart. 2,157,445; May 9.
Wrapper and system of producing same. M. T. Heller. 2,157,410; May 9.
Wrapper cutting and delivering mechanism. J. F. Halstead. 2,157,536; May 9.
Wrapping machine. J. Benz. 2,157,949; May 9.
Wrench: *See*—
Torque release wrench.
X-bar for automobile frames. D. W. Sherman. 2,157,353; May 9.
X-ray exposures, Method and installation for taking. A. Bouwers. 2,157,474; May 9.
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Zinc ground rod. T. J. Little. 2,157,180; May 9.
Zinc, Plating bright. V. Hoffman. 2,157,129; May 9.
Yarns and the like, Apparatus for lofting and fluffing. H. C. Wolfenden. 2,157,976; May 9.

CLASSIFICATION OF PATENTS

ISSUED MAY 9, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

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Brunswick-Balke-Collender Company, The, Chicago, Ill. Electric score projectors. Serial No. 417,256; May 16. Class 21.

Burbrooke Manufacturing Co., Inc., New York, N. Y. Rain coats and capes. Serial No. 417,485; May 16. Class 39.

Canine Vita-Candy Company, Inc., Waterbury, Conn. Vitamine candy for animals. Serial No. 387,061; May 16. Class 46.

Catomance Limited, Welwyn Garden City, England. Waterproofing compounds for textile goods. Serial No. 416,889; May 16. Class 6.

Caxton Printers, Ltd., The, Caldwell, Idaho. Books. Serial No. 416,720; May 16. Class 38.

Celotex Corporation, The, Chicago, Ill. Saturated fiber board. Serial No. 398,810; May 16. Class 12.

Century Drug Company. (See Fels, William.)

Century Hair Dryer Co., New York, N. Y., and Laurelton, N. J. Magnetic tool for use by hair dressers in the removal of hair pins from the hair. Serial No. 414,394; May 16. Class 23.

Champion Belt Manufacturing Co., Inc., New York, N. Y. Ladies' belts. Serial No. 414,622; May 16. Class 39.

Chicago Musical Instrument Company, Chicago, Ill. Reeds for clarinets and other musical instruments. Serial No. 417,263; May 16. Class 30.

Coleman, Walter M., Woodlawn, Md. Card games. Serial No. 414,913; May 16. Class 22.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. Serial No. 417,328; May 16. Class 4.

Colonial Coverlet Company, Inc., Chattanooga, Tenn. Bedspreads. Serial No. 413,818; May 16. Class 42.

Columbia Mills, Inc., The, New York, N. Y. Window shade cloth. Serial No. 416,248; May 16. Class 42.

Connell, J. C., doing business as Rio Grande Citrus Distributors, Alamo, Tex. Fresh citrus fruits. Serial No. 416,843; May 16. Class 46.

Connolly Brothers (Curriers) Limited, London, England. Leather, skins unwrought and wrought. Serial No. 415,444; May 16. Class 1.

Considine, Dennis F., doing business as Roseria Company, Chicago, Ill. Preparation for treatment of the eyes. Serial No. 417,058; May 16. Class 6.

Darco Corporation, Wilmington, Del. Adsorptive and decolorizing carbon. Serial No. 416,788; May 16. Class 6.

Davis, H. B., Co., The, doing business as Maryland Paint Company, Baltimore, Md. Paints, paint enamels, stains, etc. Serial No. 417,204; May 16. Class 16.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Printing rollers and loom supplies. Serial No. 415,472; May 16. Class 23.

"Delta" Papier- und Filter-Kommanditgesellschaft, Büngeler & Co., Düren, Germany. Filter papers. Serial No. 402,852; May 16. Class 31.

Destileria Tropical, Camuy and Arecibo, P. R. Rum. Serial No. 417,267; May 16. Class 49.

Detroit Lubricator Company, Detroit, Mich. Valve needles and valve seats for expansion valves. Serial No. 374,234; May 16. Class 13.

Dittman, J. F., Company, Inc., New York, N. Y. Women's wearing apparel. Serial No. 413,981; May 16. Class 39.

Drake, Robert Z., Omaha, Nebr. Lumber. Serial No. 410,584; May 16. Class 12.

Eagle Clothes, New York, N. Y. Overcoats, topcoats, and suits. Serial No. 412,700; May 16. Class 39.

Educator Shoe Corporation of America, The, New York, N. Y. Shoes. Serial No. 402,217; May 16. Class 39.

Effervescent Products, Ltd., Chicago, Ill. Fire extinguishing compound. Serial No. 416,952; May 16. Class 6.

Ehrman, Samuel, Co. Inc., New York, N. Y. Laces, embroideries in the piece. Serial No. 415,435; May 16. Class 42.

Emlong, Ralph R., doing business as Emlong's Nursery, Stevensville, Mich. Fruit trees. Serial No. 416,060; May 16. Class 1.

Engineering and Research Corporation, Riverdale, Md. Composite aircraft propellers, propeller blades, and hubs. Serial No. 417,333; May 16. Class 19.

Esmond, Gundlach and Company. (See Gundlach, George P.)

Estate Stove Company, The, doing business as Speeder Appliance Company, Hamilton, Ohio. Cooking stoves and heaters and parts therefor. Serial No. 404,080; May 16. Class 34.

Evans Products Company, Detroit, Mich. Motor trucks. Serial No. 400,001; May 16. Class 19.

Fate-Root-Heath Company, The, Plymouth, Ohio. Locomotives. Serial No. 417,403; May 16. Class 23.

Federal-Mogul Corporation, Detroit, Mich. Machinery shaft bearings and journal bearings therefor. Serial No. 414,990; May 16. Class 23.

Fels, William, doing business as Century Drug Company, New York, N. Y. Hypnotics and sedatives. Serial No. 417,005; May 16. Class 6.

Fels, William, doing business as Century Drug Company, New York, N. Y. Preparations for the treatment of vitamin deficiencies in the human body. Serial No. 417,006; May 16. Class 6.

Finch, Joseph S., and Company, New York, N. Y., and Schenley, Pa. Whiskey, gin, rum, etc. Serial No. 413,579; May 16. Class 49.

Finkl, A., & Sons Company, Chicago, Ill. Steel dies. Serial No. 416,409; May 16. Class 23.

Fisher, Dudley T., Jr., doing business as Dudley Fisher, Columbus, Ohio. Series of cartoons. Serial No. 417,008; May 16. Class 38.

Fisk Rubber Corporation, The, Chicopee Falls, Mass. Golf balls. Serial No. 417,908; May 16. Class 22.

Fits-No-Mo Company. (See Rhodes, R. B.)

Fleisher Yarns, Inc., New York, N. Y. Yarns for art needlework. Serial No. 417,125; May 16. Class 43.

Freedman-Burnham Engineering Corporation, Cincinnati, Ohio. Aeroplane propellers. Serial No. 416,798; May 16. Class 19.

Funk, Joe & Ted, New York, N. Y. Coats and suits, skirts, blouses, etc. Serial No. 415,771; May 16. Class 39.
Gair, Robert, Company, Inc., New York, N. Y. Cartons. Serial No. 415,941; May 16. Class 2.
Gee, Frances, Garment Co., Kansas City, Mo. Ladies' dresses, frocks, slacks, etc. Serial No. 413,549; May 16. Class 39.
Gehring & Neiweiser, Bielefeld, Germany. Preparation for preserving victuals. Serial No. 403,817; May 16. Class 6.
Gemex Company, Newark, N. J. Watch bracelets and straps, neck chains, etc. Serial No. 414,492; May 16. Class 28.
General Mills, Inc., Minneapolis, Minn. Printed recipe cards. Serial No. 413,939; May 16. Class 38.
General Mills, Inc., Minneapolis, Minn. Feeds; flour; and cottonseed meal, and soybean meal. Serial No. 414,561; May 16. Class 46.
General Motors Corporation, Detroit, Mich. Fluid for hydraulic brakes, shock absorbers, and the like. Serial No. 410,692; May 16. Class 6.
General Refrigeration Corporation, South Beloit, Ill. Refrigerating apparatus and parts thereof. Serial No. 418,003; May 16. Class 31.
General Shoe Corporation, Nashville, Tenn. Boots, shoes, and slippers. Serial No. 417,335; May 16. Class 39.
General Time Instruments Corporation, La Salle, Ill. Clocks and watches. Serial No. 402,370; May 16. Class 27.
General Tire & Rubber Company, The, Akron, Ohio. Automobile hot water heaters using hot fluids from the engine. Serial No. 416,898; May 16. Class 19.
Georges-George De Met & Bros., Inc., Chicago, Ill. Candy. Serial No. 415,984; May 16. Class 46.
Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerators. Serial No. 417,684; May 16. Class 31.
Glazo Company, Inc., The, East Rutherford, N. J. Cream and liquid nail polish. Serial No. 417,687; May 16. Class 6.
Glidden Company, The, Cleveland, Ohio. Publication. Serial No. 414,104; May 16. Class 38.
Globe Oil & Refining Company, The, Wichita, Kans. Tires and tubes. Serial No. 414,877; May 16. Class 35.
Goldschmidt, Th., A.-G., Essen-Ruhr, Germany. Adhesive cements. Serial No. 411,558; May 16. Class 5.
Granada Packing Company. (See Belmonte, Frank.)
Greer, William, & Co. Limited, Glasgow, Scotland. Scotch whisky. Serial No. 416,186; May 16. Class 49.
Gundlach, George P., doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Homogenized milk. Serial No. 413,307; May 16. Class 46.
Guttman, Joseph, & Bros., Inc., New York, N. Y. Ladies' and misses' sweaters. Serial No. 416,954; May 16. Class 39.
Hallstar Products, Inc., Scarsdale, N. Y. Antiseptic cream, antiseptic shampoo, and antiseptic ointments. Serial No. 416,850; May 16. Class 6.
Haloid Company, The, Rochester, N. Y. Chemical used in photographic developing solutions. Serial No. 416,727; May 16. Class 6.
Harris, Constance, Providence, R. I. Newspaper section or column and for heading of a series of cartoons. Serial No. 417,365; May 16. Class 38.
Hecker Products Corporation, New York, N. Y. Shoe soap. Serial No. 417,616; May 16. Class 4.
Herrmann, John A., doing business as Hot Diggitty Products, Chicago, Ill. Barbecue table extract. Serial No. 415,985; May 16. Class 46.
Hiatt, Dean B., Fort Worth, Tex. Daily newspaper features. Serial No. 415,477; May 16. Class 38.
High Rock Ginger Ale Company, Baltimore, Md. Maltless beverages. Serial Nos. 416,851-2; May 16. Class 45.
Hot Diggitty Products. (See Herrmann, John A.)
Huddleston, Harold C., Pittsfield, Mass. Liniment. Serial No. 415,843; May 16. Class 6.
Huffman Full Fashioned Mills, Inc., Morganton, N. C. Hosiery. Serial No. 417,221; May 16. Class 39.
Independent Food Products Co. Inc., Newark, N. J. Eggs. Serial No. 416,800; May 16. Class 46.
Inson, Ralph E., New York, N. Y. Polish and cleaner for furniture finished surfaces. Serial No. 415,041; May 16. Class 16.
International Pulverizing Company, Moorestown, N. J. Pulverized clays. Serial No. 414,566; May 16. Class 1.
Iris Lingerie Company, Inc., New York, N. Y. Ladies' underwear, negligees, camisoles, etc. Serial No. 416,566; May 16. Class 39.
Irwill Knitwear Corp., New York, N. Y. Knitted sweaters. Serial No. 416,422; May 16. Class 39.
Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies. Serial No. 411,869; May 16. Class 46.
Jacobsen Manufacturing Company, Racine, Wis. Power lawn mowers. Serial No. 415,394; May 16. Class 23.
Jones, Chester A., Ottumwa, Iowa. Punch boards. Serial No. 414,225; May 16. Class 22.
Kayser, Julius, & Co., New York, N. Y. Hosiery. Serial No. 417,222; May 16. Class 39.
Keeno Packing Company, South Gate, Calif. Canned dog and cat food. Serial No. 415,896; May 16. Class 46.
Kendall Company, The, Walpole, Mass. Medicated adhesive plasters. Serial No. 415,457; May 16. Class 6.
Kress & Owen Company, New York, N. Y. Cough drops. Serial No. 417,766; May 16. Class 6.
Lampl Sportswear Manufacturing Company, The, Cleveland, Ohio. Piece goods. Serial No. 410,124; May 16. Class 42.
Lee Paper Company, Vicksburg, Miss. Paper for use in duplicating machines. Serial No. 409,882; May 16. Class 37.
Levine, Max, & Company, New York, N. Y. Women's dresses and suits. Serial No. 417,175; May 16. Class 39.
Lethelin Products Company, Inc., Wood-Ridge, N. J. Insecticide or plant spray. Serial No. 416,908; May 16. Class 6.
Lewell Mfg. Co. Inc., New York, N. Y. Girdles. Serial No. 417,697; May 16. Class 39.
Lister, R. A., & Company Limited, Dursley, England. Electric lighting plant. Serial No. 417,286; May 16. Class 21.
Loomis, W. H., Talc Corporation, Gouverneur, N. Y. Insecticide and inert carrier and diluent for insecticides and fungicides. Serial No. 416,806; May 16. Class 6.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics in the piece. Serial No. 414,500; May 16. Class 42.
Loveman, Joseph & Loeb, Birmingham, Ala. Pajamas, men's hats, coats, etc. Serial No. 414,455; May 16. Class 39.
Lucky Club, Inc., St. Louis, Mo. Nonalcoholic carbonated cola flavored beverage. Serial No. 407,676; May 16. Class 45.
Mantos, Gust, San Francisco, Calif. Liquid preparation for the treatment of the hair. Serial No. 417,026; May 16. Class 6.
Marcy, Carrie E., doing business as Marcy Ranch, Santa Ana, Calif. Fresh citrus fruit. Serial No. 402,533; May 16. Class 46.
Martin Manufacturing and Research Corp., New York, N. Y. Telegraph keys. Serial No. 415,254; May 16. Class 21.
Maryland Paint Company. (See Davis, H. B., Co., The.)
Merck & Co. Inc., Rahway, N. J. Sedative and soporific preparation. Serial No. 416,861; May 16. Class 6.
Minnesota and Ontario Paper Company, The, Minneapolis, Minn. Kraft paper, newsprint paper, halftone paper, etc. Serial No. 416,471; May 16. Class 37.
Mock, Judson, Voehringer Co. of New York, Inc., Long Island City, N. Y. Section of a periodical publication. Serial No. 415,135; May 16. Class 38.
Modern Engineering Company, Inc., St. Louis, Mo. Cutting torches. Serial No. 417,227; May 16. Class 34.
Monarch Metal Weatherstrip Corporation, St. Louis, Mo. Metal. Serial No. 417,382; May 16. Class 14.
Mottsman, Harry, & Co., Inc., New York, N. Y. Champagne. Serial No. 414,960; May 16. Class 47.
Mount Hope Finishing Company, Dighton, Mass. Finished textile fabrics. Serial Nos. 416,864-5; May 16. Class 42.
N. V. Hollandsche Draad-en Kabelfabriek, Amsterdam, Netherlands. Liquid adhesive preparation. Serial No. 414,306; May 16. Class 5.
National Biscuit Company, New York, N. Y. Bakery products. Serial No. 406,820; May 16. Class 46.
National Carbon Company, Inc., New York, N. Y. Carbon products. Serial No. 416,108; May 16. Class 12.
National Electric Screen Corp., Chicago, Ill. Electrical insect exterminating screens and traps. Serial No. 415,412; May 16. Class 21.
National Grape Corporation, Brocton, N. Y. Grape juice and grape juice concentrates. Serial Nos. 417,097-8; May 16. Class 45.
National Graphite Co. Inc., New York, N. Y. Supplementary lubricating oils. Serial No. 416,771; May 16. Class 15.
Nestra Packing Company, Berkley, Mich. Dog food. Serial No. 417,410; May 16. Class 46.
Nestra Packing Company, Berkley, Mich. Dog food. Serial No. 417,412; May 16. Class 46.
New Zealand Co-Operative Dairy Company Limited, The, Hamilton and Hamilton-Auckland, New Zealand. Casein used in the industry arts. Serial No. 413,233; May 16. Class 1.
Nuodex Products Co., Inc., Elizabeth, N. J. Chemical grinding agents. Serial No. 414,603; May 16. Class 6.
Nyal Company, Detroit, Mich. Ointment. Serial No. 417,816; May 16. Class 6.
Nyal Company, Detroit, Mich. Ointment. Serial No. 417,818; May 16. Class 6.
Nyal Company, Detroit, Mich. Preparation used in the treatment of coughs and throat irritations. Serial No. 417,819; May 16. Class 6.
Nyal Company, Detroit, Mich. Effervescent salt preparation. Serial No. 417,821; May 16. Class 6.
Oberman & Company, Jefferson City, Mo. Shirts, pants, and jackets. Serial No. 388,366; May 16. Class 39.
Party Mart, Inc., The, New York, N. Y. Package of small articles, such as candy, paper hats, toy balloons, etc. Serial No. 412,388; May 16. Class 50.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints, paint enamels, stains, etc. Serial Nos. 417,137-8; May 16. Class 16.

Pearson Pharmacal Company, Inc., New York, N. Y. Deodorant. Serial No. 405,316; May 16. Class 6.
Pepsi-Cola Company, Long Island City, N. Y. Beverage coolers. Serial No. 413,237; May 16. Class 31.
Pitcairn, Raymond, doing business as Sentinel Features, Philadelphia, Pa. Syndicated newspaper features. Serial No. 416,699; May 16. Class 38.
Plant & Barnes, doing business as American Drugs Produce Co., Oakland, Calif. Laxative. Serial No. 417,029; May 16. Class 6.
Pope & Gray, Inc., New York, N. Y. Printing and lithographic inks and greases and compounds for adjusting the physical properties of such inks. Serial No. 413,797; May 16. Class 11.
Rauschenburg, G. H., Inc., Dalton, Ga. Bedspreads, bath mats, and other chenille and tufted articles. Serial No. 408,936; May 16. Class 42.
Raycraft Tire and Rubber Company, The. (See Spevack, Isadore.)
Reliable Sales Company. (See Ryder, Richard.)
Reliance Manufacturing Company, Chicago, Ill. Children's play suits. Serial No. 401,509; May 16. Class 39.
Rex, James S., Media, Pa. Wheat, rice, and corn in a puffed or flaked form. Serial No. 416,340; May 16. Class 46.
Rhodes, R. B., doing business as Fits-No-Mo Company, Savannah, Ga. Dog medicine. Serial No. 417,655; May 16. Class 6.
Rio Grande Citrus Distributors. (See Connell, J. C.)
Rockbestos Products Corporation, New Haven, Conn. Insulated electric wires and cables. Serial No. 415,999; May 16. Class 21.
Roseria Company. (See Considine, Dennis F.)
Ruprecht, Albert, doing business as Beru-Werk, Ludwigsburg, Germany. Spark plugs, low tension fuses, resistances, etc. Serial No. 414,431; May 16. Class 21.
Ryder, Richard, doing business as Reliable Sales Company, Hartford, Conn. Automobile and furniture polishes and waxes. Serial No. 415,262; May 16. Class 16.
Schenley Import Corporation, New York, N. Y. Wines. Serial No. 400,571; May 16. Class 47.
Schering Corporation, Bloomfield, N. J. Medicinal hormone preparation. Serial No. 417,142; May 16. Class 6.
Schering Corporation, Bloomfield, N. J. Medicinal preparations. Serial No. 417,784; May 16. Class 6.
Schwab, A. G., & Sons, Inc., Cincinnati, Ohio. Watches. Serial No. 401,916; May 16. Class 27.
Schwartz, Charles, & Co., Chicago, Ill. Used bags and sacks adaptable for use in making towels, dust cloths, etc. Serial No. 414,083; May 16. Class 1.
Sealtest, Inc., Baltimore, Md., and New York, N. Y. Milk, buttermilk, and other cultured milks, etc. Serial No. 413,687; May 16. Class 46.
Sealy, Incorporated, Pittsburgh, Pa. Mattresses and box springs. Serial No. 417,185; May 16. Class 32.
Sellinger Glove Company, Sheboygan, Wis. Gloves processed to look like fur. Serial No. 404,138; May 16. Class 39.
Semon Bache & Company, New York, N. Y. Sheets of colored glass to be cut up for tiles, etc. Serial No. 403,095; May 16. Class 33.
Sentinel Features. (See Pitcairn, Raymond.)
Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for the treatment of affections of the nervous system. Serial No. 416,970; May 16. Class 6.
Showerway Company, The, Minneapolis, Minn. Water heating, lavatory, and lunch warming units. Serial No. 404,452; May 16. Class 34.
Slim Jim Bottling Co., Inc., Winston-Salem, N. C. Maltless beverages and syrups therefor. Serial No. 416,658; May 16. Class 45.
Society of Chemical Industry in Basle, Basel, Switzerland. Preparation having an action on the circulation of the blood. Serial No. 416,780; May 16. Class 6.
Speeder Appliance Company. (See Estate Stove Company, The.)
Spevack, Isadore, doing business as The Raycraft Tire and Rubber Company, Brooklyn, N. Y. Tires and rubber inner tubes. Serial No. 415,748; May 16. Class 35.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Materials for chemically treating metallic surfaces. Serial No. 417,508; May 16. Class 6.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Ferrous metal castings. Serial No. 417,509; May 16. Class 14.
Steele, W. O., doing business as All-Star Manufacturing Co., Atlanta, Ga. Cravats. Serial No. 417,593; May 16. Class 39.
Sturtevant Mill Company, Boston, Mass. Centrifugal type dust collectors for air conditioning. Serial No. 416,710; May 16. Class 34.
Taylor, C. S., & Co., Davenport, Fla. Candy, honey, kumquat syrup, etc. Serial No. 413,250; May 16. Class 46.
Thomas Publishing Company, New York, N. Y. Periodical. Serial No. 416,880; May 16. Class 38.
Tishman, Lou, Co. Inc., New York, N. Y. Women's and misses' coats and suits. Serial No. 417,240; May 16. Class 39.
Topit Company, The, Los Angeles, Calif. Syrup. Serial No. 415,312; May 16. Class 46.
Torrington Manufacturing Company, The, Torrington, Conn. Centrifugal blower wheels. Serial No. 417,147; May 16. Class 34.
Trinity Cotton Oil Co., Dallas, Tex. Shortening, and salad and cooking oils. Serial No. 416,021; May 16. Class 46.
Troy, Seymour, Inc., New York, N. Y. Ladies' shoes. Serial No. 417,556; May 16. Class 39.
Union Asbestos & Rubber Company, Cicero, Ill. Woven insulating blankets of glass wool fibers. Serial No. 417,038; May 16. Class 12.
Union Asbestos & Rubber Company, Cicero, Ill. Rigid insulating blocks and half tubular members. Serial No. 417,039; May 16. Class 12.
Union Asbestos & Rubber Company, Cicero, Ill. Rigid insulating material and suitable binder. Serial No. 417,040; May 16. Class 12.
Utility Dress Co., New York, N. Y. Piece goods. Serial No. 416,664; May 16. Class 42.
Vanadium-Alloys Steel Company, Latrobe, Pa. Metal alloy and welding rods made of the same. Serial No. 416,882; May 16. Class 14.
Vogel, Adolf, San Antonio, Tex. Leather belts. Serial No. 414,245; May 16. Class 39.
Vogel, Jerry, Music Co., Inc., New York, N. Y. Sheet music and books of music. Serial No. 417,421; May 16. Class 38.
Walker, Tom, Inc., Pittsburgh and Glenfield, Pa. Whiskey. Serial No. 416,126; May 16. Class 49.
Walter, A. C., & Company, New York, N. Y. Base blocks made of green onyx. Serial No. 416,219; May 16. Class 1.
Warner, William R., & Co., Inc., New York, N. Y. Medicinal preparations. Serial No. 417,352; May 16. Class 6.
Warren Lamp Company, Warren, Pa. Electric incandescent lamps. Serial No. 412,532; May 16. Class 21.
Warwick Chemical Company, West Warwick, R. I. Compound for softening textile fabrics and leather. Serial No. 416,301; May 16. Class 6.
Webster Electric Company, Racine, Wis. Inter-communicating sound amplifying and transmitting systems and parts thereof. Serial No. 415,094; May 16. Class 21.
Welmaid Manufacturing Corporation, Chicago, Ill. Compound for polishing and retarding the polishing of silver. Serial No. 416,978; May 16. Class 4.
Wesco Foods Company, Cincinnati, Ohio. Evaporated milk. Serial No. 404,098; May 16. Class 46.
Western Railroad Supply Company, Chicago, Ill. Insulating preservative and noncorrosive paint for industrial arts. Serial No. 414,385; May 16. Class 16.
White-Rodgers Electric Company, St. Louis, Mo. Instruments and controls responsive to temperature. Serial No. 411,111; May 16. Class 26.
Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machines for forming labels from strip material. Serial No. 413,693; May 16. Class 23.
Williams Manufacturing Company, Nashville, Tenn. Lead pencils. Serial No. 414,850; May 16. Class 37.
Wolf, Jacques, & Co., Clifton, N. J. Product to be used as an ingredient for lacquers and paints. Serial No. 411,112; May 16. Class 16.
Yorke Beverages, Inc., The, Yonkers, N. Y. Maltless beverages. Serial No. 417,074; May 16. Class 45.
Young Things, Pasadena, Calif. Wooden toys and games employing wooden parts. Serial No. 416,528; May 16. Class 22.

LIST OF REGISTRANTS OF TRADE-MARKS

Ace Manufacturing Co. (See Peninsular Chemical Co., assignor.)
Air-O-Lamp Corporation, Chicago, Ill. Electric lamps and combination electric lamps and fans. 367,385; May 16; Serial No. 407,893; published Mar. 7, 1939. Class 21.
Allan, A., & Son, Harrison, N. J. Non-ferrous alloys. 126,916; renewed Oct. 14, 1939.
Alleman, Hazel B., Pendleton, Ind. Cough drops. 367,522; May 16. Class 6.
Allen, Carl S., doing business as Steamaire Company, Cincinnati, Ohio. Units for vaporizing, atomizing, etc. fluids. 367,424; May 16; Serial No. 413,506; published Mar. 7, 1939. Class 34.
American Bleached Goods Company, Inc., New York, N. Y. Piece goods. 367,423; May 16; Serial No. 413,430; published Mar. 7, 1939. Class 42.
American Can Company, New York, N. Y. Display racks or stands. 367,365; May 16; Serial No. 398,028; published Feb. 22, 1938. Class 32.

American Car and Foundry Motors Company, New York, N. Y. Internal combustion engines. 367,478; May 16; Serial No. 414,587; published Mar. 7, 1939. Class 23.
American Druggists Syndicate, assignor, by mesne assignments, to Vadsco Sales Corporation, Long Island City, N. Y. Disinfectant and antiseptic. 126,817; renewed Oct. 7, 1939.
American Felt Company, New York, N. Y. Liquid seals. 367,484; May 16; Serial No. 414,719; published Mar. 7, 1939. Class 35.
Ardell Razor Blade Corp. (See Fuller Blade Company, Inc., assignor.)
Arkwright, Incorporated, New York, N. Y. Suits and overcoats. 367,393; May 16; Serial No. 410,353; published Feb. 28, 1939. Class 39.
Armstrong Cork Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Publications. 125,953; renewed July 22, 1939.
Ashco Corp., New York, N. Y. Combination cigarette holder and ash receiver. 367,408; May 16; Serial No. 414,387; published Mar. 7, 1939. Class 8.
Astatic Microphone Laboratory, Inc., Youngstown, Ohio. Crystal microphones, crystal pick-ups, microphone stands, etc. 367,366; May 16; Serial No. 398,604; published Mar. 7, 1939. Class 21.
Atlas Bedding Company. (See Micon, A.)
Atlas Canning Company, Inc., New York and Glendale, N. Y. Canned food for dogs, cats, etc. 367,377; May 16; Serial No. 405,050; published Oct. 4, 1938. Class 46.
Automotive Gear Works, Inc., Richmond, Ind. Tools. 367,378; May 16; Serial No. 405,098; published Mar. 7, 1939. Class 23.
Baker Oil Tools, Inc., Huntington Park, Calif. Well drilling tools and equipment. 367,436; May 16; Serial No. 413,698; published Mar. 7, 1939. Class 23.
Balsam, Lillian, doing business as Golftown Sportswear Company, New York, N. Y. Sweaters and scarfs for women, misses, and children. 367,409; May 16; Serial No. 412,582; published Feb. 28, 1939. Class 39.
Barlow Chemical Company, Shawnee, to Barlow Chemical Association, Oklahoma City, Okla. Preparation for eczema, ointment for skin diseases, blood-tonic. 125,391; renewed May 20, 1939.
Basic Foods, Inc., Jersey City, N. J. Icing for cakes and cookies. 367,487; May 16; Serial No. 414,771; published Mar. 7, 1939. Class 46.
Bayer Company, Inc., The, New York, N. Y. Analgesic tonic. 126,635; renewed Sept. 30, 1939.
Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. 126,636–8; renewed Sept. 30, 1939.
Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. 126,812; renewed Sept. 30, 1939.
Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 367,459; May 16; Serial No. 414,139; published Feb. 28, 1939. Class 39.
Bedford Shirt Company, The, New York, N. Y. Men's shirts, sport jackets, and sport slacks. 367,469; May 16; Serial No. 414,389; published Mar. 7, 1939. Class 39.
Birmingham Printing Company, Birmingham, Ala. Linotype keyboard rubber roll. 367,504; May 16; Serial No. 415,320; published Mar. 7, 1939. Class 23.
Bonray Dance Frocks, Inc., New York, N. Y. Dresses, dress and jacket combinations, etc. 367,460; May 16; Serial No. 414,182; published Feb. 28, 1939. Class 39.
Branford Products Corp., New York, N. Y. Pressure type oil burners for boilers or furnaces. 367,386; May 16; Serial No. 408,007; published Mar. 7, 1939. Class 34.
Brown, L. L., Paper Company, Adams, Mass. Papers. 367,461; May 16; Serial No. 414,214; published Mar. 7, 1939. Class 37.
Butler Brothers, Chicago, Ill. Hosiery. 125,285; renewed May 6, 1939.
Butler Brothers, Chicago, Ill. Clothing. 125,400; renewed May 20, 1939.
Calcraft. (See Southwest Security Mortgage Corp.)
California and Hawaiian Sugar Refining Corporation, Limited, San Francisco, Calif. Raw and refined sugars. 367,426; May 16; Serial No. 413,535; published Mar. 7, 1939. Class 46.
California Citrus Juice Exchange, Incorporated, Santa Ana, Calif. Ginger ale, grape punch, root beer, etc. 367,373; May 16; Serial No. 402,551; published Mar. 7, 1939. Class 45.
Cattaraugus Cutlery Company, Little Valley, N. Y. Household cutlery of base metal, hunting knives, etc. 367,396; May 16; Serial No. 410,579; published Mar. 7, 1939. Class 23.
Celanese Corporation of America, New York, N. Y. Piece goods. 367,488–9; May 16; Serial Nos. 414,818–19; published Mar. 7, 1939. Class 42.
Centennial Flouring Mills Co. (See Seattle Grain Company, assignor.)
Chain Belt Company, Milwaukee, Wis. Pipe line transportation units. 367,403; May 16; Serial No. 412,024; published Mar. 7, 1939. Class 13.
Chemi-Culture Company, Montebello, Calif. Fresh vegetables. 367,471; May 16; Serial No. 414,435; published Mar. 7, 1939. Class 46.
Cheney Brothers, South Manchester, to Cheney Brothers, Manchester, Conn. Silk fabrics. 125,401–2; renewed May 20, 1939.
Cheney Brothers, South Manchester, to Cheney Brothers, Manchester, Conn. Fabrics of silk and silk mixtures. 125,403–4; renewed May 20, 1939.
Clifton Springs Distilling Co., Wilmington, Del., and Lawrenceburg, Ind. Whiskey, gin, rum, etc. 367,371; May 16; Serial No. 401,849; published Mar. 7, 1939. Class 49.
Comfortaire Corporation, Washington, D. C. Forced draft cooling and ventilating units. 367,410; May 16; Serial No. 412,591; published Mar. 7, 1939. Class 34.
Compania Agricola Carabayllo, Lima, Peru. Granulated sugar. 367,440; May 16; Serial No. 413,763; May 16; Serial No. 413,763; published Mar. 7, 1939. Class 46.
Continental Oil Company, Ponca City, Okla. Lubricating oil. 367,374; May 16; Serial No. 402,900; published Feb. 21, 1939. Class 15.
Cooper's, Incorporated, Kenosha, Wis. Piece goods. 367,449; May 16; Serial No. 413,983; published Mar. 7, 1939. Class 42.
Crown Perfumery Company, The, New York, N. Y., assignor to The Crown Perfumery Company Limited, London, England. Smelling-salts. 125,331; renewed May 13, 1939.
De Botelbo, Martin, New York, N. Y. Cologne, perfume, and sachet. 367,457; May 16; Serial No. 414,057; published Feb. 7, 1939. Class 6.
Dewar, Reginald E. G., Oakland, Calif. Apparatus for electrical contraction and relaxation of muscles. 367,500; May 16; Serial No. 415,108; published Mar. 7, 1939. Class 44.
Doucet, New York, N. Y. Fabrics. 367,441; May 16; Serial No. 413,822; published Mar. 7, 1939. Class 42.
Dri-Steam Valve Sales Corporation, New York, N. Y. Steam driers and valves for locomotives. 367,361; May 16; Serial No. 387,062; published Mar. 7, 1939. Class 13.
Du Pont, E. I. de Nemours and Company, Wilmington, Del. Fuel oils and lubricating oils. 367,414; May 16; Serial No. 413,117; published Feb. 21, 1939. Class 15.
Du Pont, E. I. de Nemours and Company, Wilmington, Del. Insulated copper wire and motor generators. 367,415; May 16; Serial No. 413,120; published Mar. 7, 1939. Class 21.
Durant Manufacturing Co., Milwaukee, Wis. Counters. 367,429; May 16; Serial No. 413,625; published Mar. 7, 1939. Class 26.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Light sensitive photographic paper. 367,475; May 16; Serial No. 414,489; published Mar. 7, 1939. Class 26.
Economics Laboratory, Incorporated, St. Paul, Minn. Cleaning compound. 367,491–2; May 16; Serial Nos. 414,868–9; published Mar. 7, 1939. Class 4.
Edison, Thomas A., Incorporated, West Orange, N. J. Electronic and audio apparatus and devices. 367,425; May 16; Serial No. 413,515; published Mar. 7, 1939. Class 21.
Elec-Tro-Lytic Systems, Inc., Columbus, Ohio. Apparatus comprising liquid conduits, transformers, wiring switches, etc. 367,506; May 16. Class 21.
Euclid Candy Co. of California, Inc., San Francisco, Calif. Candy bars. 367,446; May 16; Serial No. 413,900; published Mar. 7, 1939. Class 46.
Fairclough & Gold, Inc., Boston, Mass. Textile fabric glass curtains. 367,514; May 16. Class 42.
Falls City Mills Co., Louisville, Ky. Hosiery. 125,043; renewed Apr. 8, 1939.
Finch Telecommunications Laboratories, Inc., New York, N. Y. Apparatus used in facsimile and telegraph apparatus for the transmission of pictures and messages. 367,363; May 16; Serial No. 388,712; published Mar. 7, 1939. Class 21.
Fink, David, Chicago, Ill. Women's wearing apparel. 367,421; May 16; Serial No. 413,222; published Mar. 7, 1939. Class 39.
Firestone Tire & Rubber Company, The, Akron, Ohio. Bicycles and structural parts thereof. 367,370; May 16; Serial No. 401,247; published Mar. 7, 1939. Class 19.
Ford Motor Company, Dearborn, Mich. Passenger and commercial automobiles. 367,439; May 16; Serial No. 413,761; published Mar. 7, 1939. Class 19.
Forest Products Chemical Company, Memphis, Tenn. Charcoal. 126,847; renewed Oct. 7, 1939.
Freydberg Bros., Inc., Stamford, Conn. Ribbon for tying purposes and other uses. 367,395; May 16; Serial No. 410,428; published Mar. 7, 1939. Class 37.
Friedstrass Co., The, New York, N. Y. Wall brushes, dust cloths, mops and mop handles, etc. 367,362; May 16; Serial No. 387,322; published Mar. 7, 1939. Class 29.
Fuller Blade Company, Inc., New York, N. Y., assignor to Ardell Razor Blade Corp., Newark, N. J. Razor blades. 367,507; May 16. Class 23.
Gargalo, João da C., doing business as João C. Gargalo, Setubal, Portugal. Preserved fish. 367,444–5; May 16; Serial Nos. 413,858–9; published Mar. 7, 1939. Class 46.
General Electric Company, Schenectady, N. Y. Vacuum-tube discharge devices. 126,162; renewed July 29, 1939.
General Fireproofing Co., The, Youngstown, Ohio. Metal filing cabinets. 367,503; May 16; Serial No. 415,248; published Mar. 7, 1939. Class 32.

Gerstein Brothers Manufacturing Corporation, New York, N. Y. Chair seats, cushions and pads. 367,515; May 16. Class 32.
Gilligan, John H., Arlington, Va. Preparation for the correction of gastric hyperacidity etc. 367,518; May 16. Class 6.
Glass, David, & Sons Wholesale Grocers Inc., Brooklyn, N. Y. Dried prunes, beans, rice, etc. 367,394; May 16; Serial No. 410,392; published Mar. 7, 1939. Class 46.
Golftown Sportswear Company. (See Balsam, Lillian.)
Gooderham & Worts Limited, Detroit, Mich., and Peoria, Ill. Whiskey. 367,430; May 16; Serial No. 413,632; published Mar. 7, 1939. Class 49.
Goodman, Hyman, doing business as Paradise Packing Co., assignor to Goodman Products Corp., New York, N. Y. Semi-prepared puddings, and for chocolate malt food preparation. 367,402; May 16; Serial No. 411,992; published Jan. 10, 1939. Class 46.
Graham Co., Inc., The, New York, N. Y. Unshelled nuts. 367,405; May 16; Serial No. 412,181; published Mar. 7, 1939. Class 46.
Granby Elastic Web Limited, The, Granby, Quebec, Canada. Wide elastic fabrics. 367,413; May 16; Serial No. 413,011; published Mar. 7, 1939. Class 42.
Gulf Oil Corporation, Pittsburgh, Pa. Electric-motor oil. 367,407; May 16; Serial No. 412,550; published Feb. 28, 1939. Class 15.
Halaikhyn, John, New York, N. Y. Syrups. 367,408; May 16; Serial No. 412,552; published Mar. 7, 1939. Class 46.
Harris, Herbert, New York, N. Y. Fabrics in the piece. 367,420; May 16; Serial No. 413,183; published Mar. 7, 1939. Class 42.
Hawaii Produce Assn., Honolulu, Hawaii. Fresh vegetables and fruits. 367,431; May 16; Serial No. 413,634; published Mar. 7, 1939. Class 46.
Henne, Isabelle, Brooklyn, N. Y. Dental floss holders. 367,476; May 16; Serial No. 414,564; published Mar. 7, 1939. Class 44.
Hewitt Bros. Soap Co., The, asignor, by mesne assignments, to The Hewitt Soap Company, Inc., Dayton, Ohio. Flaked laundry soap. 125,140; renewed Apr. 15, 1939.
Hodgson Oil Refining Company, Athens, Ga. Shortening. 126,013; renewed July 22, 1939.
House of McAteer, Inc., The, New York, N. Y. Scotch whisky. 367,521; May 16. Class 49.
Hyde Manufacturing Company, Southbridge, Mass. Putty knives and scrapers and seam rollers. 367,416; May 16; Serial No. 413,126; published Mar. 7, 1939. Class 23.
Independent Nail and Packing Company Inc., The, Bridgewater, Mass. Nails. 367,448; May 16; Serial No. 413,948; published Mar. 7, 1939. Class 13.
International Business Machines Corporation, Endicott, N. Y. Machines used to print and impress data upon coupons. 367,389; May 16; Serial No. 408,314; published Mar. 7, 1939. Class 23.
International Business Machines Corporation, Endicott, N. Y. Machines used to print on pay cards and on a proof tape. 367,390; May 16; Serial No. 408,841; published Mar. 7, 1939. Class 23.
Irwin Auger Bit Company, The, Wilmington, Ohio. Auger bits. 367,384; May 16; Serial No. 407,865; published Mar. 7, 1939. Class 23.
Juilliard, A. D., & Co., Inc., New York, N. Y. Corduroy piece goods. 367,496; May 16; Serial No. 415,004; published Mar. 7, 1939. Class 42.
Kapp, Gene, New York, N. Y. Pens, fountain-pens, and pencils. 367,481; May 16; Serial No. 414,699; published Mar. 7, 1939. Class 37.
Kellogg Company, Battle Creek, Mich. Dog food. 367,372; May 16; Serial No. 402,047; published Mar. 7, 1939. Class 46.
Kirshbaum-Helbraun, Inc., Chicago, Ill. Women's cloth coats and suits. 367,437; May 16; Serial No. 413,717; published Mar. 7, 1939. Class 39.
Knitcraft Mills. (See Southwest Security Mortgage Corp.)
Komar, Charles, & Sons, New York, N. Y. Women's and misses' slacks, jackets, playsuits, etc. 367,453; May 16; Serial No. 414,031; published Feb. 28, 1939. Class 39.
Komar, Charles, & Sons, New York, N. Y. Pajamas, nightgowns, and rayon underwear. 367,454; May 16; Serial No. 414,032; published Feb. 28, 1939. Class 39.
Krispy Kreme Doughnut Company. (See Rudolph, Vernon.)
Laucks, I. F., Inc., Seattle, Wash. Paints, varnishes, stains, etc. 367,480; May 16; Serial No. 414,663; published Mar. 7, 1939. Class 16.
Lawrence, Max, Inc., New York, N. Y. Piece goods with a patent leather covering. 367,455; May 16; Serial No. 414,033; published Mar. 7, 1939. Class 50.
Lee County Packing Company, Fort Myers, Fla. Fresh oranges, lemons, grapefruit, etc. 367,367; May 16; Serial No. 399,305; published July 26, 1938. Class 46.
Levinsohn, Frank, & Co. Inc., New York, N. Y. Women's coats and suits. 367,399; May 16; Serial No. 411,323; published Feb. 28, 1939. Class 39.
Lewis, G. B., Company, Watertown, Wis. Venetian blind slats. 367,462; May 16; Serial No. 414,231; published Mar. 7, 1939. Class 32.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections. 367,400; May 16; Serial No. 411,536; published Dec. 6, 1938. Class 46.
Lyons, I. L., & Co., Ltd., New Orleans, La. Toothbrushes. 367,497; May 16; Serial No. 415,046; published Mar. 7, 1939. Class 29.
MacAndrews & Forbes Company, Camden, N. J. Coffee. 126,716; renewed Sept. 30, 1939.
Maier's Bakery, Reading, Pa. Bakery products. 367,359; May 16; Serial No. 378,491; published Sept. 20, 1938. Class 46.
Marks, L., & Co., Inc., New York, N. Y. Ladies' and misses' cloth coats, suits, and coat and suit combinations. 367,438; May 16; Serial No. 413,722; published Mar. 7, 1939. Class 39.
Mastin, Francis B., doing business as Mastin Products Co., New York, N. Y. Eye lotion. 367,513; May 16. Class 6.
Mastin Products, Inc., New York, N. Y. Device impregnated with lotion to be applied to the eyes. 367,517; May 16. Class 6.
Mastin Products, Inc., New York, N. Y. Eye lotion, eye grease, eye mascara, etc. 367,520; May 16. Class 6.
McCormick, Edward A., New York, N. Y. Infants' disposable diapers. 367,417; May 16; Serial No. 413,129; published Mar. 7, 1939. Class 39.
Meutsch, Voigtländer & Co., vormals Gewerkschaft Wallram, Essen-Ruhr, Germany. Drawing and pressing dies, draw plates, mandrills, etc. 367,380–2; May 16; Serial Nos. 406,595–7; published Mar. 7, 1939. Class 23.
Michaelis, Curt, Jersey City, N. J. Shortening. 367,375; May 16; Serial No. 403,822; published Nov. 15, 1938. Class 46.
Micon, A., doing business as Atlas Bedding Company, Milwaukee, Wis. Mattresses. 367,368; May 16; Serial No. 399,587; published Mar. 7, 1939. Class 32.
Minnesota Linseed Oil Paint Co. (See National Paint & Varnish Company, The, assignor.)
Mold-to-Form Fabrics Inc., Philadelphia, Pa. Woven cotton bandages. 367,482; May 16; Serial No. 414,706; published Mar. 7, 1939. Class 44.
Monarch Marking System Company, The, Dayton, Ohio. Price tags and tickets. 367,464; May 16; Serial No. 414,269; published Mar. 7, 1939. Class 37.
Multifit, Inc., New York, N. Y. Hypodermic syringes. 367,498; May 16; Serial No. 415,052; published Mar. 7, 1939. Class 44.
National Cash Register Company, The, Dayton, Ohio. Paper and stationery. 367,442; May 16; Serial No. 413,838; published Mar. 7, 1939. Class 37.
National Paint & Varnish Company, The, Cleveland, Ohio, assignor, by mesne assignments, to Minnesota Linseed Oil Paint Co., Minneapolis, Minn. Construction materials. 125,080; renewed Apr. 8, 1939.
Nemanick, R. A., Salinas, Calif. Fresh vegetables and deciduous fruits. 367,472; May 16; Serial No. 414,463; published Mar. 7, 1939. Class 46.
Netzky, William, doing business as Susquehanna Waist Company, Philadelphia, Pa. Ladies' blouses. 367,470; May 16; Serial No. 414,407; published Mar. 7, 1939. Class 39.
New Yorker Cheese Co., Philadelphia, Pa. Cheese. 367,525; May 16. Class 46.
Northern Paper Mills, Green Bay, Wis. Toilet tissue paper. 367,495; May 16; Serial No. 414,936; published Mar. 7, 1939. Class 37.
Ohio Oil Co., The, Findlay, Ohio. Motor oil. 367,432; May 16; Serial No. 413,638; published Feb. 21, 1939. Class 15.
Oppenheimer, Harold, Kansas City, Mo. Automobiles and structural parts thereof. 367,387; May 16; Serial No. 408,202; published Mar. 7, 1939. Class 19.
Osiason, Inc., Fall River, Mass. Mattresses, box springs, and upholstered furniture. 367,473; May 16; Serial No. 414,465; published Mar. 7, 1939. Class 32.
Paradise Packing Co. (See Goodman, Hyman.)
Parrot Speed Fostener Corporation, New York and Long Island City, N. Y. Stapling machines, tackers, and pliers. 367,388; May 16; Serial No. 408,258; published Mar. 7, 1939. Class 23.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints, paint enamels, stains, etc. 367,485; May 16; Serial No. 414,753; published Mar. 7, 1939. Class 16.
Peninsular Chemical Co., Detroit, Mich., assignor, by mesne assignments, to Ace Manufacturing Co., Chicago, Ill. Dentifrice and talcum powder. 126,749; renewed Sept. 30, 1939.
Perfex Co., The. (See Voigt, Frank H.)
Photo Utilities, Inc., New York, N. Y. Photographic goods. 367,433–4; May 16; Serial Nos. 413,639–40; published Mar. 7, 1939. Class 26.
Pioneer Manufacturing Co., The, Cleveland, Ohio. Liquid preparation for cleaning floors, walls, tile, etc. 367,467; May 16; Serial No. 414,362; published Mar. 7, 1939. Class 4.
Porcelain Products, Inc., Findlay and Carey, Ohio. Electrical fixtures. 367,435; May 16; Serial No. 413,682; published Mar. 7, 1939. Class 21.
Portage Hoisery Company, Portage, Wis. Athletic socks, hosiery, and mittens. 367,379; May 16; Serial No. 405,749; published Mar. 7, 1939. Class 39.
Posner, Dr. A., Shoes, Inc., New York, N. Y. Shoes. 367,401; May 16; Serial No. 411,614; published Mar. 7, 1939. Class 39.

Preservative Paint Company, Seattle, Wash. Paints and varnishes. 125,836; renewed June 17, 1939.
Ravarino & Freschi Importing & Mfg. Co., St. Louis, Mo., now, by change of name, to Ravarino & Freschi, Inc. Alimentary paste products. 125,361; renewed May 13, 1939.
Raytheon Manufacturing Company, Newton, Mass. Electric current rectifiers, electric battery chargers, etc. 367,404; May 16; Serial No. 412,116; published Mar. 7, 1939. Class 21.
Red-Bar Battery Company, Dayton, Ohio. Electric storage batteries and battery parts. 367,383; May 16; Serial No. 407,640; published Mar. 7, 1939. Class 21.
Red Hand Compositions Company, Inc. (See Suter, Hartmann R Rahtjens Composition Company, (Limited), assignor.)
Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. Wines. 367,358; May 16; Serial No. 373,747; published Nov. 30, 1937. Class 47.
Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. Wines. 367,360; May 16; Serial No. 386,778; published Mar. 2, 1937. Class 47.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Smoking-tobacco and cigarettes. 126,760; renewed Sept. 30, 1939.
Rich's, Inc., Atlanta, Ga. Hosiery. 367,465; May 16; Serial No. 414,272; published Feb. 28, 1939. Class 39.
Robertson, John, & Son Limited, Leith, Scotland. Scotch whisky. 367,490; May 16; Serial No. 414,832; published Mar. 7, 1939. Class 49.
Rob Roy Canning Company, Glendale, Calif. Canned fruits, vegetables, and hominy. 367,493; May 16; Serial No. 414,892; published Mar. 7, 1939. Class 46.
Rudolph, Vernon, doing business as Krispy Kreme Doughnut Company, Winston-Salem, N. C. Doughnuts. 367,524; May 16. Class 46.
Ruppert, Jacob, New York, N. Y. Ale. 367,456; May 16; Serial No. 414,044; published Mar. 7, 1939. Class 48.
Sagner, A., & Sons, Inc., Baltimore, Md. Men's suits. 367,398; May 16; Serial No. 411,185; published Feb. 28, 1939. Class 39.
Savemore Markets, Inc., Jamaica, N. Y. Food products. 367,466; May 16; Serial No. 414,275; published Mar. 7, 1939. Class 46.
Schulte, D. A., Inc., New York, N. Y. Clocks and watches. 367,511–12; May 16. Class 27.
Schwartz, Max L., doing business as Schwartz Drug Co., Baltimore, Md. Petroleum jelly and hair dressing. 367,523; May 16. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Sewing machines. 367,369; May 16; Serial No. 400,658; published Feb. 8, 1938. Class 23.
Sears, Roebuck and Co., Chicago, Ill. Spark plugs. 367,505; May 16. Class 21.
Seattle Grain Company, assignor to Centennial Flouring Mills Co., Seattle, Wash. Self-rising flour. 126,898; renewed Oct. 7, 1939.
Sexton, John, & Co., Chicago, Ill. Canned and fresh frozen fruits, berries, etc. 367,364; May 16; Serial No. 393,736; published Mar. 7, 1939. Class 46.
Shaw, Victor, Ring Traveler Co., Phovidence, R. I., now by change of name to Victor Ring Traveler Company. Pamphlet or magazine. 124,903; renewed Mar. 18, 1939.
Simplon Products Corporation, New York, N. Y. Metal brackets. 367,428; May 16; Serial No. 413,597; published Mar. 7, 1939. Class 13.
Smith Separator Corporation, Tulsa, Okla. Turbulence rectifiers. 367,418; May 16; Serial No. 413,153; published Mar. 7, 1939. Class 23.
Sommers, G., & Co., St. Paul, Minn. Paints and painters' materials. 126,785; renewed Sept. 30, 1939.
Southern Spring Bed Company, Atlanta, Ga. Mattresses and pillows. 367,508; May 16. Class 32.
Southwest Security Mortgage Corp., doing business as Knitcraft Mills and also as Calcraft, Los Angeles, Calif. Swim suits, sweaters, and trunks. 367,450; May 16; Serial No. 414,015; published Mar. 7, 1939. Class 39.
Sportville Mens Wear, Inc., New York, N. Y. Sport shirts, trousers, jackets, etc. 367,458; May 16; Serial No. 414,087; published Feb. 28, 1939. Class 39.
Spurr, Melbourne, doing business as Spurrway Manufacturing Company, Los Angeles, Calif. Beefsteak sauce. 367,516; May 16. Class 46.
Spurrway Manufacturing Company. (See Spurr, Melbourne.)
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating grease. 367,419; May 16; Serial No. 413,159; published Feb. 21, 1939. Class 15.
Star-Maid Dresses, Inc., New York, N. Y. Piece goods. 367,376; May 16; Serial No. 404,497; published Mar. 7, 1939. Class 42.
Steamaire Company. (See Allen, Carl S.)
Stone Tobacco Company, Philadelphia, Pa. Pipe tobacco. 367,499; May 16; Serial No. 415,066; published Mar. 7, 1939. Class 17.
Stover Manufacturing & Engine Co., Freeport, Ill. Hammer mills. 367,406; May 16; Serial No. 412,472; published Mar. 7, 1939. Class 23.
Stroock, S., & Co. Inc., New York, N. Y. Camel's hair and wool cloth in the piece. 367,451; May 16; Serial No. 414,016; published Mar. 7, 1939; Class 42.
Stroock, S., & Co. Inc., New York, N. Y. Llama and wool cloth in the piece. 367,452; May 16; Serial No. 414,017; published Mar. 7, 1939. Class 42.
Sum-Mac Manufacturing Company, Tiffin, Ohio. Piston cushion stabilizers. 367,509; May 16. Class 23.
Sunny State Oil Products Co., Albuquerque, N. Mex. Fuel oil for motors. 367,486; May 16; Serial No. 414,758; published Feb. 28, 1939. Class 15.
Supplee-Biddle Hardware Co., Philadelphia, Pa. Display cabinets. 367,502; May 16; Serial No. 415,235; published Mar. 7, 1939. Class 32.
Surabian, Sam, doing business as Sam Surabian & Sons, Dinuba, Calif. Fresh grapes. 367,474; May 16; Serial No. 414,475; published Mar. 7, 1939. Class 46.
Susquehanna Waist Company. (See Netzky, William.)
Suter, Hartmann & Rahtjens Composition Company, (Limited), London, England, assignor to Red Hand Compositions Company, Inc., New York, N. Y. Paints, compositions, anti-corrosives, etc. 17,035; re-renewed Sept. 17, 1939.
Swiss Radium & Dial Painting Co., Inc., The, New York, N. Y. Watch cases, dials and movements thereof, and clocks. 367,510; May 16. Class 27.
Transparent Distributor Cap and Motor Parts Co., Scottdale, Pa. Distributor caps. 367,443; May 16; Serial No. 413,844; published Mar. 7, 1939. Class 21.
United Pure Food Co., New York, N. Y. Canned vegetables, dried vegetables, canned fruits, etc. 367,392; May 16; Serial No. 410,346; published Nov. 15, 1938. Class 46.
U. S. Industrial Chemicals, Inc., New York, N. Y. Antifreeze. 367,501; May 16; Serial No. 415,197; published Mar. 7, 1939. Class 6.
United States Rubber Company, New York, N. Y. Mattresses or cushions of foamed rubber. 367,483; May 16; Serial No. 414,714; published Mar. 7, 1939. Class 32.
Vadsco Sales Corporation. (See American Druggists Syndicate.)
Victor Ring Traveler Company. (See Shaw, Victor, Ring Traveler Co.)
Violet, J. & S., Freres, Thuir, France. Wine. 367,397; May 16; Serial No. 410,758; published Mar. 7, 1939. Class 47.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Meat loaves. 367,494; May 16; Serial No. 414,929; published Mar. 7, 1939. Class 46.
Voigt, Frank H., doing business as The Perfex Co., Ottumwa, Iowa. Dry cleaning preparation. 367,412; Mal 16; Serial No. 412,891; published Feb. 21, 1939. Class 4.
Walgreen Co., Chicago, Ill. Golf balls. 367,479; May 16; Serial No. 414,607; published Mar. 7, 1939. Class 22.
Waples-Platter Grocer Company, Denison, now, by change of name, to Waples-Platter Company, Fort Worth, Tex. Canned goods. 126,614; renewed Sept. 23, 1939.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Metallic electrodes for welding machines. 367,391; May 16; Serial No. 409,221; published Mar. 7, 1939. Class 14.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Journal bearings. 367,427; May 16; Serial No. 413,574; published Mar. 7, 1939. Class 23.
Wilson Bros. & Cohen Inc., New York, N. Y. Women's and girls' knitted sweaters and blouses. 367,447; May 16; Serial No. 413,923; published Feb. 28, 1939. Class 39.
Winding Gulf Operators Association, Beckley, W. Va. Coal. 367,518; May 16. Class 1.
Wrought Iron Range Company, St. Louis, Mo. Ranges. 367,411; May 16; Serial No. 412,787; published Mar. 7, 1939. Class 34.
Youth Incorporated, Kansas City, Mo. Children's one piece dress and play suits. 367,463; May 16; Serial No. 414,251; published Feb. 28, 1939. Class 39.
Zimray, Inc., New York, N. Y. Ladies' and misses' coats and suits. 367,422; May 16; Serial No. 413,376; published Mar. 7, 1939. Class 39.
Zip Abrasive Company, The, Cleveland, Ohio. Liquid level gauges. 367,477; May 16; Serial No. 414,585; published Mar. 7, 1939. Class 26.

LIST OF REGISTRANTS OF LABELS

American Steel and Wire Company of New Jersey, The, doing business as American Steel & Wire Company, Cleveland, Ohio. American Household Tacks. For Tacks. 52,968; May 16.
American Tissue Mills, Holyoke, Mass. Waxed Refrigerator Paper. For Waxed Refrigerator Paper. 52,969; May 16.
American Tissue Mills, Holyoke, Mass. Heavy Waxed Paper. For Heavy Waxed Paper. 52,970; May 16.
Avey Products Company, Tulsa, Okla. A V, Added Vitality. For a Product Used for Adding Vitality and Corrosion Resistant Properties to Motor Fuels. 52,971; May 16.

Avey Products Company, Tulsa, Okla. A V, Added Vitality. For a Product Used for Adding Vitality and Corrosion Resistant Properties to Crankcase Lubricants. 52,972; May 16.
Blue Earth Canning Company, Blue Earth, assignor to Minnesota Valley Canning Company, Le Sueur, Minn. County Kist. For Canned Corn. 52,973; May 16.
Borden Company, The, New York, N. Y. Borden's Grade B Vitamin D Pasteurized Milk. For Grade B Vitamin D Pasteurized Milk. 52,974; May 16.
Bozeman Canning Company, Mount Vernon, Wash. Bozeman's Big P's. For Canned Peas. 52,975; May 16.
Burton-Dixie Corporation, Chicago, Ill. Dutch Wife. For Pillows. 52,976; May 16.
California Fruit Growers Exchange, Los Angeles, Calif. Lemon Lime Rickey. For Lemon Lime Rickey. 52,977; May 16.
Clayton, A. C., Printing Company, St. Louis, Mo. Exquisite Footwear. For Footwear. 52,978; May 16.
Columbia Steel Company, San Francisco, Calif. E-Z Open Safety Keg. For Kegs. 52,979; May 16.
Dako Products Co., New York, N. Y. A-Brox Borated Hand Soap. For a Borated Hand Soap. 52,980; May 16.
Daviess County Distilling Company, Inc., The, Owensboro, Ky. Medley's Private Stock. For Kentucky Straight Bourbon Whiskey. 52,981; May 16.
Fena's Soluble Garden Products, New York, N. Y. N-P-K (Pronounce Enpeekny) Food for Garden and Indoor Plants. For a Food for Garden and Indoor Plants. 52,982; May 16.
General Mills, Inc., Minneapolis, Minn. Bisquick. For Biscuit Flour. 52,983; May 16.
Hitt, Thomas G., Seattle, Wash. Rah-Zoom-Ah. For Rockets. 52,984; May 16.
Hunter Baltimore Rye Distillery, Inc., Baltimore, Md. Hunter Straight Rye Whiskey "First Over the Bars". For Straight Rye Whiskey. 52,985; May 16.
Kimble Glass Company, Vineland, N. J. Kimble Double-Purpose Glasbar. For Towel Bars. 52,986; May 16.
King Novelty Company. (See Neumann, Morton G.)
Levine, N., Chicago, Ill. Whiteeth. For Liquid Dentifrice. 52,987; May 16.
Lucene Incorporated, New York, N. Y. Lucene Herb Tonic. For a Non-Alcoholic Herb Tonic for the Hair and Scalp. 52,988; May 16.
Master Chemical Company, Portland, Oreg. Master X. For a Bleacher, Cleaner, Deodorizer and Disinfectant. 52,989; May 16.
Menasha Products Company, Menasha, Wis. Menasha Whole Wheat Sliced. For Bread. 52,990; May 16.
Meyer, Frank C., Co. Inc., New York, N. Y. Frenchies. For Footwear. 52,991; May 16.
Meyer, Frank C. Co. Inc., New York, N. Y. Continental Opera. For Footwear. 52,992; May 16.
Meyer, Frank C., Co. Inc., New York, N. Y. Smart Shoes. For Shoes. 52,993; May 16.
Minnesota Valley Canning Company. (See Blue Earth Canning Company, assignor.)
Neumann, Morton G., doing business as King Novelty Company, Chicago, Ill. Black Cat Brand Candles. For Candles. 52,994; May 16.
Olney & Carpenter, Inc., Wolcott, N. Y. O & C. For Potato Sticks. 52,995; May 16.
Pollock Paper & Box Company, Dallas, Tex. Valley Sweet. For Butter. 52,996; May 16.
Pollock Paper & Box Company, Dallas, Tex. Blue Ribbon. For Butter. 52,997; May 16.
Trouche, Paul E., Charleston, S. C. Chief Lucky. For Writing Tablets. 52,998; May 16.
Union Oil Company of California, Los Angeles, Calif. Union Auto Polish. For Auto Polish. 52,999; May 16.
Union Oil Company of California, Los Angeles, Calif. Union Radiator Flush. For a Radiator Cleaner. 53,000; May 16.
Vegetable Products Company, Rochester, N. Y. Alkaline Candy Bar. For Alkaline Candy Bars. 53,001; May 16.
Ventura County Orange & Lemon Association, Fillmore, Calif. Golden Acres. For Oranges. 53,002; May 16.
Ventura County Orange & Lemon Association, Fillmore, Calif. Good Advice. For Oranges. 53,003; May 16.
Ventura County Orange & Lemon Association, Fillmore, Calif. Silver Craft. For Oranges. 53,004; May 16.
"X" Laboratories, Inc., New York, N. Y. "X" Karwash. For a Car Wash. 53,005; May 16.
X-Ray Sales Method, Inc., Chicago, Ill. Tel-A-Vision Sales Method. For Advertising Display Books. 53,006; May 16.

LIST OF REGISTRANTS OF PRINTS

Bigelow-Sanford Carpet Co. Inc., Thompsonville, Conn. Now . . . Tailor-Made Rugs . . . at Ready-Made Prices! For Rugs. 17,383; May 16.
Bigelow-Sanford Carpet Co. Inc., Thompsonville, Conn. The Smart Modern Way to Cover Floors . . . Choose Tailor-Made Rugs at 'Ready-Made' Prices. For Rugs. 17,384; May 16.
General Mills, Inc., Minneapolis, Minn. It's the Most Popular 'Fancy' Roll I Know! For Flour. 17,385; May 16.
General Mills, Inc., Minneapolis, Minn. New Way to Make Biscuits. For Biscuit Flour. 17,386; May 16.
General Mills, Inc., Minneapolis, Minn. Free at Your Grocer's . . . While They Last. For Cereal Food. 17,387; May 16.
Gulftex Drug Co., Inc., Houston, Tex. Baldy Dan the Gulftex Man Start the Gin Season off With This Double Header. For Gin. 17,388; May 16.
Gulftex Drug Co., Inc., Houston, Tex. Baldy Dan the Gulftex Man Feature Gulftex Brands for Favorite Summer Drinks. For Rum and Gin. 17,389; May 16.
Gulftex Drug Co., Inc., Houston, Tex. Baldy Dan, the Gulftex Man, Salute. For Whiskies. 17,390; May 16.
Gulftex Drug Co., Inc., Houston, Tex. Baldy Dan, the Gulftex Man, I Cannot Tell a Lie. For Cordials. 17,391; May 16.
Hampden Brewing Company, Willimansett, Mass. Good Measure. For Ale and Beer. 17,392; May 16.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Colors by Nature, Paints by Pittsburgh. For Paints. 17,393; May 16.
Reed & Prince Manufacturing Company, Worcester, Mass. Recessed Head Screws. For Recessed Head Screws, Screw Drivers, and Bits. 17,394; May 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal. Forest Products Chemical Company. 126,847; renewed Oct. 7, 1939.
Coal. Winding Gulf Operators Association. 367,519; May 16.

CLASS 4

Cleaning compound. Economics Laboratory, Incorporated. 367,491–2; May 16; Serial Nos. 414,868–9; published Mar. 7, 1939.
Cleaning preparations, Dry. F. H. Voigt. 367,412; May 16; Serial No. 412,891; published Feb. 21, 1939.
Preparation for cleaning floors, walls, tile, etc., Liquid. Pioneer Manufacturing Co. 367,467; May 16; Serial No. 414,362; published Mar. 7, 1939.
Soap, Flaked laundry. Hewitt Bros. Soap Co. 125,140; renewed Apr. 15, 1939.

CLASS 6

Anti-freeze. U. S. Industrial Chemicals, Inc. 367,501; May 16; Serial No. 415,197; published Mar. 7, 1939.
Antirheumatic, analgesic, and antipyretic. Bayer Company. 126,636–8; renewed Sept. 30, 1939.
Antirheumatic, analgesic, and antipyretic. Bayer Company. 126,812; renewed Sept. 30, 1939.
Cologne, perfume, and sachet. M. de Botelho. 367,457; May 16; Serial No. 414,057; published Feb. 7, 1939.
Cough drops. H. B. Alleman. 367,522; May 16.
Dentifrice and talcum powder. Peninsular Chemical Co. 126,749; renewed Sept. 30, 1939.
Device impregnated with lotion to be applied to the eyes. Mastin Products, Inc. 367,517; May 16.
Disinfectant and antiseptic. American Druggists Syndicate. 126,817; renewed Oct. 7, 1939.
Lotion, Eye. F. B. Mastin. 367,513; May 16.
Lotion, eye grease, eye mascara, etc., Eye. Mastin Products, Inc. 367,520; May 16.
Paints, compositions, anti-corrosives, etc. Suter, Hartmann & Rahtjens Composition Company. 17,035; re-renewed Sept. 17, 1939.
Petroleum jelly and hair dressing. M. L. Schwartz. 367,523; May 16.
Preparation for eczema, ointment for skin diseases, Blood-tonic. Barlow Chemical Company. 125,391; renewed May 20, 1939.
Preparation for the correction of gastric hyperacidity, etc. J. H. Gilligan. 367,518; May 16.
Smelling-salts. Crown Perfumery Company. 125,331; renewed May 13, 1939.
Tonic, Analgesic. Bayer Company. 126,635; renewed Sept. 30, 1939.

CLASS 8

Cigarette holder and ash receiver, Combination. Ashco Corp. 367,468; May 16; Serial No. 414,387; published Mar. 7, 1939.

CLASS 12

Construction materials. National Paint & Varnish Company. 125,080; renewed Apr. 8, 1939.

CLASS 13

Brackets, Metal. Simplon Products Corporation. 367,428; May 16; Serial No. 413,597; published Mar. 7, 1939.
Driers and valves for locomotives, Steam. Dri-Steam Valve Sales Corporation. 367,361; May 16; Serial No. 387,062; published Mar. 7, 1939.
Nails. Independent Nail and Packing Company. 367,448; May 16; Serial No. 413,948; published Mar. 7, 1939.
Pipe line transportation units. Chain Belt Company. 367,403; May 16; Serial No. 412,024; published Mar. 7, 1939.

CLASS 14

Alloys, Non-ferrous. A. Allan & Son. 126,916; renewed Oct. 14, 1939.
Electrodes for welding machines, Metallic. Westinghouse Electric & Manufacturing Company. 367,391; May 16; Serial No. 409,221; published Mar. 7, 1939.

CLASS 15

Grease, Lubricating. Standard Oil Company of New Jersey. 367,419; May 16; Serial No. 413,159; published Feb. 21, 1939.
Oil, Electric-motor. Gulf Oil Corporation. 367,407; May 16; Serial No. 412,550; published Feb. 28, 1939.
Oil for motors, Fuel. Sunny State Oil Products Co. 367,486; May 16; Serial No. 414,758; published Feb. 28, 1939.
Oil, Lubricating. Continental Oil Company. 367,374; May 16; Serial No. 402,900; published Feb. 21, 1939.
Oil, Motor. Ohio Oil Co. 367,432; May 16; Serial No. 413,638; published Feb. 21, 1939.
Oils, Fuel and lubricating. E. I. du Pont de Nemours and Company. 367,414; May 16; Serial No. 413,117; published Feb. 21, 1939.

CLASS 16

Paints and painters' materials. G. Sommers & Co. 126,785; renewed Sept. 30, 1939.
Paints and varnishes. Preservative Paint Company. 125,836; renewed June 17, 1939.
Paints, compositions, anti-corrosives, etc. Suter, Hartmann & Rahtjens Composition Company. 17,035; renewed Sept. 17, 1939.
Paints, paint enamels, stains, etc. Patterson-Sargent Company. 367,485; May 16; Serial No. 414,753; published Mar. 7, 1939.
Paints, varnishes, stains, etc. I. F. Laucks, Inc. 367,480; May 16; Serial No. 414,663; published Mar. 7, 1939.

CLASS 17

Tobacco and cigarettes, Smoking. R. J. Reynolds Tobacco Company. 126,760; renewed Sept. 30, 1939.
Tobacco, Pipe. Stone Tobacco Company. 367,499; May 16; Serial No. 415,066; published Mar. 7, 1939.

CLASS 19

Automobiles and structural parts thereof. H. Oppenheimer. 367,387; May 16; Serial No. 408,202; published Mar. 7, 1939.
Automobiles, Passenger and commercial. Ford Motor Company. 367,439; May 16; Serial No. 413,761; published Mar. 7, 1939.
Bicycles and structural parts thereof. Firestone Tire & Rubber Company. 367,370; May 16; Serial No. 401,247; published Mar. 7, 1939.

CLASS 21

Apparatus comprising liquid conduits, transformers, wiring switches, etc. Elec-Tro-Lytic Systems, Inc. 367,506; May 16.
Apparatus used in facsimile and telegraph apparatus for the transmission of pictures and messages. Finch Telecommunications Laboratories, Inc. 367,363; May 16; Serial No. 388,712; published Mar. 7, 1939.
Batteries and battery parts, Electric storage. Red-Bar Battery Company. 367,383; May 16; Serial No. 407,640; published Mar. 7, 1939.
Distributor caps. Transparent Distributor Cap and Motor Parts Co. 367,443; May 16; Serial No. 413,844; published Mar. 7, 1939.
Electrical fixtures. Porcelain Products, Inc. 367,435; May 16; Serial No. 413,682; published Mar. 7, 1939.
Electronic and audio apparatus. Thomas A. Edison, Incorporated. 367,425; May 16; Serial No. 413,515; published Mar. 7, 1939.
Lamps and combination electric lamps and fans, Electric. Air-O-Lamp Corporation. 367,385; May 16; Serial No. 407,893; published Mar. 7, 1939.
Microphones, crystal pick-ups, microphone stands, etc., Crystal. Astatic Microphone Laboratory, Inc. 367,366; May 16; Serial No. 398,604; published Mar. 7, 1939.
Rectifiers, electric battery chargers, etc., Electric current. Raytheon Manufacturing Company. 367,404; May 16; Serial No. 412,116; published Mar. 7, 1939.
Spark plugs. Sears, Roebuck and Co. 367,505; May 16.
Wire and motor generators, Insulated copper. E. I. du Pont de Nemours and Company. 367,415; May 16; Serial No. 413,120; published Mar. 7, 1939.

CLASS 22

Golf balls. Walgreen Co. 367,479; May 16; Serial No. 414,607; published Mar. 7, 1939.

CLASS 23

Bearings, Journal. Westinghouse Electric & Manufacturing Company. 367,427; May 16; Serial No. 413,574; published Mar. 7, 1939.
Bits, Auger. Irwin Auger Bit Company, The. 367,384; May 16; Serial No. 407,865; published Mar. 7, 1939.
Cutlery of base metal, hunting knives, etc., Household. Cattaraugus Cutlery Company. 367,396; May 16; Serial No. 410,579; published Mar. 7, 1939.
Dies, draw plates, mandrills, etc., Drawing and pressing. Meutsch, Voigtländer & Co., vormals Gewerkschaft Wallram. 367,380–2; May 16; Serial Nos. 406,595–7; published Mar. 7, 1939.
Engines, Internal combustion. American Car and Foundry Motors Company. 367,478; May 16; Serial No. 414,587; published Mar. 7, 1939.
Knives and scrapers and seam rollers, Putty. Hyde Manufacturing Company. 367,416; May 16; Serial No. 413,126; published Mar. 7, 1939.
Linotype keyboard rubber roll. Birmingham Printing Company. 367,504; May 16; Serial No. 415,320; published Mar. 7, 1939.
Machines used to print and impress data upon coupons. International Business Machines Corporation. 367,389; May 16; Serial No. 408,314; published Mar. 7, 1939.
Machines used to print on pay cards and on a proof tape. International Business Machines Corporation. 367,390; May 16; Serial No. 408,841; published Mar. 7, 1939.
Mills, Hammer. Stover Manufacturing & Engine Co. 367,406; May 16; Serial No. 412,472; published Mar. 7, 1939.
Piston cushion stabilizers. Sum-Mac Manufacturing Company. 367,509; May 16.
Razor blades. Fuller Blade Company. 367,507; May 16.
Sewing machines. Sears, Roebuck and Co. 367,369; May 16; Serial No. 400,658; published Feb. 8, 1938.
Stapling machines, tackers, and pliers. Parrot Speed Fastener Corporation. 367,388; May 16; Serial No. 408,258; published Mar. 7, 1939.
Tools. Automotive Gear Works, Inc. 367,378; May 16; Serial No. 405,098; published Mar. 7, 1939.
Tools and equipment, Well drilling. Baker Oil Tools, Inc. 367,436; May 16; Serial No. 413,698; published Mar. 7, 1939.
Turbulence rectifiers. Smith Separator Corporation. 367,418; May 16; Serial No. 413,153; published Mar. 7, 1939.

CLASS 26

Gauges, Liquid level. Zip Abrasive Company. 367,477; May 16; Serial No. 414,585; published Mar. 7, 1939.
Counters. Durant Manufacturing Co. 367,429; May 16; Serial No. 413,625; published Mar. 7, 1939.
Photographic goods. Photo Utilities, Inc. 367,433–4; May 16; Serial Nos. 413,639–40; published Mar. 7, 1939.
Photographic paper, Light sensitive. Eastman Kodak Company. 367,475; May 16; Serial No. 414,489; published Mar. 7, 1939.

CLASS 27

Clocks and watches. D. A. Schulte, Inc. 367,511–12; May 16.
Watch cases, dials and movements thereof, and clocks. Swiss Radium & Dial Painting Co. 367,510; May 16.

CLASS 29

Brushes, dust cloths, mops and mop handles, etc., Wall Friedstrass Co. 367,362; May 16; Serial No. 387,322; published Mar. 7, 1939.
Toothbrushes. I. L. Lyons & Co. 367,497; May 16; Serial No. 415,046; published Mar. 7, 1939.

CLASS 32

Blind slats, Venetian. G. B. Lewis Company. 367,462; May 16; Serial No. 414,231; published Mar. 7, 1939.
Cabinets, Display. Supplee-Biddle Hardware Co. 367,502; May 16; Serial No. 415,235; published Mar. 7, 1939.
Cabinets, Metal filing. General Fireproofing Co. 367,503; May 16; Serial No. 415,248; published Mar. 7, 1939.
Chair seats, cushions and pads. Gerstein Brothers Manufacturing Corporation. 367,515; May 16.
Mattresses. A. Micon. 367,368; May 16; Serial No. 399,587; published Mar. 7, 1939.
Mattresses and pillows. Southern Spring Bed Company. 367,508; May 16.
Mattresses, box springs, and upholstered furniture. Oslason, Inc. 367,473; May 16; Serial No. 414,465; published Mar. 7, 1939.
Mattresses or cushions of foamed rubber. United States Rubber Company. 367,483; May 16; Serial No. 414,714; published Mar. 7, 1939.
Racks or stands, Display. American Can Company. 367,365; May 16; Serial No. 398,028; published Feb. 22, 1938.

CLASS 34

Burners for boilers or furnaces, Pressure type oil. Branford Products Corp. 367,386; May 16; Serial No. 408,007; published Mar. 7, 1939.
Cooling and ventilating units, Forced draft. Comfortaire Corporation. 367,410; May 16; Serial No. 412,591; published Mar. 7, 1939.
Ranges. Wrought Iron Range Company. 367,411; May 16; Serial No. 412,787; published Mar. 7, 1939.
Units for vaporizing, atomizing, etc. fluids. C. S. Allen. 367,424; May 16; Serial No. 413,506; published Mar. 7, 1939.

CLASS 35

Seals, Liquid. American Felt Company. 367,484; May 16; Serial No. 414,719; published Mar. 7, 1939.

CLASS 37

Paper and stationery. National Cash Register Company. 367,442; May 16; Serial No. 413,838; published Mar. 7, 1939.
Paper, Toilet tissue. Northern Paper Mills. 367,495; May 16; Serial No. 414,936; published Mar. 7, 1939.
Papers. L. L. Brown Paper Company. 367,461; May 16; Serial No. 414,214; published Mar. 7, 1939.
Pens, fountain-pens, and pencils. G. Kapp. 367,481; May 16; Serial No. 414,699; published Mar. 7, 1939.
Ribbon for tying purposes and other uses. Freydberg Bros., Inc. 367,395; May 16; Serial No. 410,428; published Mar. 7, 1939.
Tags and tickets, Price. Monarch Marking System Company. 367,464; May 16; Serial No. 414,269; published Mar. 7, 1939.

CLASS 38

Pamphlet or magazine. Victor Shaw Ring Traveler Co. 124,903; renewed Mar. 18, 1939.
Publications. Armstrong Cork Company. 125,953; renewed July 22, 1939.

CLASS 39

Apparel, Women's wearing. D. Fink. 367,421; May 16; Serial No. 413,222; published Mar. 7, 1939.
Blouses, Ladies'. W. Netzky. 367,470; May 16; Serial No. 414,407; published Mar. 7, 1939.
Clothing. Butler Brothers. 125,400; renewed May 20, 1939.
Coats and suits, Ladies' and misses'. Zimray, Inc. 367,422; May 16; Serial No. 413,376; published Mar. 7, 1939.
Coats and suits, Women's. Frank Levinsohn & Co. Inc. 367,399; May 16; Serial No. 411,323; published Feb. 28, 1939.
Coats and suits, Women's cloth. Kirshbaum-Helbraun, Inc. 367,437; May 16; Serial No. 413,717; published Mar. 7, 1939.
Coats, suits, and coat and suit combinations, Ladies' and misses'. I. Marks & Co. 367,438; May 16; Serial No. 413,722; published Mar. 7, 1939.
Diapers, Infants' disposable. E. A. McCormick. 367,417; May 16; Serial No. 413,129; published Mar. 7, 1939.
Dresses, dress and jacket combinations, etc. Bonray Dance Frocks, Inc. 367,460; May 16; Serial No. 414,182; published Feb. 28, 1939.
Hosiery. Bear Brand Hosiery Co. 367,459; May 16; Serial No. 414,139; published Feb. 28, 1939.
Hosiery. Butler Brothers. 125,285; renewed May 6, 1939.
Hosiery. Falls City Mills Co. 125,043; renewed April 8, 1939.
Hosiery. Rich's, Inc. 367,465; May 16; Serial No. 414,272; published Feb. 28, 1939.
Pajamas, nightgowns, and rayon underwear. Charles Komar & Sons. 367,454; May 16; Serial No. 414,032; published Feb. 28, 1939.
Shirts, and sport jackets and slacks, Men's. Bedford Shirt Company. 367,469; May 16; Serial No. 414,389; published Mar. 7, 1939.
Shirts, trousers, jackets, etc., Sport. Sportville Mens Wear, Inc. 367,458; May 16; Serial No. 414,087; published Feb. 28, 1939.
Shoes. Dr. A. Posner Shoes, Inc. 367,401; May 16; Serial No. 411,614; published Mar. 7, 1939.
Slacks, jackets, playsuits, etc., Women's and misses'. Charles Komar & Sons. 367,453; May 16; Serial No. 414,031; published Feb. 28, 1939.
Socks, hosiery, and mittens, Athletic. Portage Hosiery Company. 367,379; May 16; Serial No. 405,749; published Mar. 7, 1939.
Suits and overcoats. Arkwright, Incorporated. 367,393; May 16; Serial No. 410,353; published Feb. 28, 1939.
Suits, Children's one piece dress or play. Youth Incorporated. 367,463; May 16; Serial No. 414,251; published Feb. 28, 1939.
Suits, Men's. A. Sagner & Sons, Inc. 367,398; May 16; Serial No. 411,185; published Feb. 28, 1939.
Suits, sweaters, and trunks, Swim. Southwest Security Mortgage Corp. 367,450; May 16; Serial No. 414,015; published Mar. 7, 1939.
Sweaters and blouses, Women's and girls'. Wilson Bros. & Cohen Inc. 367,447; May 16; Serial No. 413,923; published Feb. 28, 1939.
Sweaters and scarfs for women, misses, and children. L. Balsam. 367,409; May 16; Serial No. 412,582; published Feb. 28, 1939.

CLASS 42

Camel's hair and wool cloth in the piece. S. Stroock & Co. Inc. 367,451; May 16; Serial No. 414,016; published Mar. 7, 1939.
Corduroy piece goods. A. D. Juilliard & Co. 367,496; May 16; Serial No. 415,004; published Mar. 7, 1939.
Curtains, Textile fabric glass. Fairclough & Gold, Inc. 367,514; May 16.
Fabrics. Doucet. 367,441; May 16; Serial No. 413,822; published Mar. 7, 1939.
Fabrics of silk and silk mixtures. Cheney Brothers. 125,403–4; renewed May 20, 1939.
Fabrics, Wide elastic. Granby Elastic Web Limited. 367,413; May 16; Serial No. 413,011; published Mar. 7, 1939.
Llama and wool cloth in the piece. S. Stroock & Co. 367,452; May 16; Serial No. 414,017; published Mar. 7, 1939.
Piece goods. American Bleached Goods Company. 367,423; May 16; Serial No. 413,430; published Mar. 7, 1939.
Piece goods. Celanese Corporation of America. 367,488–9; May 16; Serial Nos. 414,818–19; published Mar. 7, 1939.
Piece goods. Cooper's, Incorporated. 367,449; May 16; Serial No. 413,983; published Mar. 7, 1939.
Piece goods. H. Harris. 367,420; May 16; Serial No. 413,183; published Mar. 7, 1939.
Piece goods. Star-Maid Dresses, Inc. 367,376; May 16; Serial No. 404,497; published Mar. 7, 1939.
Silk fabrics. Cheney Brothers. 125,401–2; renewed May 20, 1939.

CLASS 44

Apparatus for electrical contraction and relaxation of muscles. R. E. G. Dewar. 367,500; May 16; Serial No. 415,108; published Mar. 7, 1939.
Bandages, Woven cotton. Mold-to-Form Fabrics Inc. 367,482; May 16; Serial No. 414,706; published Mar. 7, 1939.
Dental floss holders. I. Henne. 367,476; May 16; Serial No. 414,564; published Mar. 7, 1939.
Syringes, Hypodermic. Multifit, Inc. 367,498; May 16; Serial No. 415,052; published Mar. 7, 1939.
Vacuum-tube discharge devices. General Electric Company. 126,162; renewed July 29, 1939.

CLASS 45

Ginger ale, grape punch, root beer, etc. California Citrus Juice Exchange, Incorporated. 367,373; May 16; Serial No. 402,551; published Mar. 7, 1939.

CLASS 46

Bakery products. Maier's Bakery. 367,359; May 16; Serial No. 378,491; published Sept. 20, 1938.
Candy bars. Euclid Candy Co. of California, Inc. 367,446; May 16; Serial No. 413,900; published Mar. 7, 1939.
Canned and fresh frozen fruits, berries, etc. John Sexton & Co. 367,364; May 16; Serial No. 393,736; published Mar. 7, 1939.
Canned food for dogs, cats, etc. Atlas Canning Company. 367,377; May 16; Serial No. 405,050; published Oct. 4, 1938.
Canned fruits, vegetables, and hominy. Rob Roy Canning Company. 367,493; May 16; Serial No. 414,892; published Mar. 7, 1939.
Canned goods. Waples-Platter Grocer Company. 126,614; renewed Sept. 23, 1939.
Canned vegetables, dried vegetables, canned fruits, etc. United Pure Food Co. 367,392; May 16; Serial No. 410,346; published Nov. 15, 1938.
Cheese. New Yorker Cheese Co. 367,525; May 16.
Coffee. MacAndrews & Forbes Company. 126,716; renewed Sept. 30, 1939.
Confections, Frozen. Joe Lowe Corporation. 367,400; May 16; Serial No. 411,536; published Dec. 6, 1938.
Doughnuts. V. Rudolph. 367,524; May 16.
Fish, Preserved. J. da C. Gargalo. 367,444–5; May 16; Serial Nos. 413,858–9; published Mar. 7, 1939.
Flour, Self-rising. Seattle Grain Company. 126,898; renewed Oct. 7, 1939.
Food, Dog. Kellogg Company. 367,372; May 16; Serial No. 402,047; published Mar. 7, 1939.
Food products. Savemore Markets, Inc. 367,466; May 16; Serial No. 414,275; published Mar. 7, 1939.
Grapes, Fresh. S. Surabian. 367,474; May 16; Serial No. 414,475; published Mar. 7, 1939.
Icing for cakes and cookies. Basic Foods, Inc. 367,487; May 16; Serial No. 414,771; published Mar. 7, 1939.
Meat loaves. F. G. Vogt & Sons, Incorporated. 367,494; May 16; Serial No. 414,929; published Mar. 7, 1939.
Nuts, Unshelled. Graham Co. 367,405; May 16; Serial No. 412,181; published Mar. 7, 1939.
Oranges, lemons, grapefruit, etc., Fresh. Lee County Packing Company. 367,367; May 16; Serial No. 399,305; published July 26, 1938.
Paste products, Alimentary. Ravarino & Freschi Importing & Mfg. Co. 125,361; renewed May 13, 1939.
Prunes, beans, rice, etc., Dried. David Glass & Sons Wholesale Grocers Inc. 367,394; May 16; Serial No. 410,392; published Mar. 7, 1939.
Puddings, and for chocolate malt food preparation, Semi-prepared. H. Goodman. 367,402; May 16; Serial No. 411,992; published Jan. 10, 1939.

Sauce, Beefsteak. M. Spurr. 367,516; May 16.
Shortening. Hodgson Oil Refining Company. 126,013; renewed July 22, 1939.
Shortening. C. Michaelis. 367,375; May 16; Serial No. 403,822; published Nov. 15, 1938.
Sugar, Granulated. Compania Agricola Carabayllo. 367,440; May 16; Serial No. 413,763; published Mar. 7, 1939.
Sugars, Raw and refined. California and Hawaiian Sugar Refining Corporation. 367,426; May 16; Serial No. 413,535; published Mar. 7, 1939.
Syrups. J. Halnishyn. 367,408; May 16; Serial No. 412,552; published Mar. 7, 1939.
Vegetables and fruits, Fresh. Hawaii Produce Assn. 367,431; May 16; Serial No. 413,634; published Mar. 7, 1939.
Vegetables and deciduous fruits, Fresh. R. A. Nemanick. 367,472; May 16; Serial No. 414,463; published Mar. 7, 1939.
Vegetables, Fresh. Chemi-Culture Company. 367,471; May 16; Serial No. 414,435; published Mar. 7, 1939.

CLASS 47

Wine. J. & S. Violet Freres. 367,397; May 16; Serial No. 410,758; published Mar. 7, 1939.
Wines. L. N. Renault & Sons, Inc. 367,358; May 16; Serial No. 373,747; published Nov. 30, 1937.
Wines. L. N. Renault & Sons, Inc. 367,360; May 16; Serial No. 386,778; published Mar. 2, 1937.

CLASS 48

Ale. J. Ruppert. 367,456; May 16; Serial No. 414,044; published Mar. 7, 1939.

CLASS 49

Whiskey, gin, rum, etc. Clifton Springs Distilling Co. 367,371; May 16; Serial No. 401,849; published Mar. 7, 1939.
Whiskey. Gooderham & Worts Limited. 367,430; May 16; Serial No. 413,632; published Mar. 7, 1939.
Whisky, Scotch. House of McAteer, Inc. 367,521; May 16.
Whisky, Scotch. John Robertson & Son Limited. 367,490; May 16; Serial No. 414,832; published Mar. 7, 1939.

CLASS 50

Goods with a patent leather covering, Piece. Max Lawrence, Inc. 367,455; May 16; Serial No. 414,033; published Mar. 7, 1939.

LIST OF LABELS

A-Brox Borated Hand Soap. For a Borated Hand Soap. Dako Products Co. 52,980; May 16.
A V, Added Vitality. For a Product used for Adding Vitality and Corrosion Resistant Properties to Motor Fuels. Avey Products Company. 52,971; May 16.
A V, Added Vitality. For a Product used for Adding Vitality and Corrosion Resistant Properties to Crankcase Lubricants. Avey Products Company. 52,972; May 16.
Alkaline Candy Bar. For Alkaline Candy Bars. Vegetable Products Company. 53,001; May 16.
American Household Tacks. For Tacks. American Steel and Wire Company of New Jersey. 52,968; May 16.
Bisquick. For Biscuit Flour. General Mills, Inc. 52,983; May 16.
Black Cat Brand Candles. For Candles. M. G. Neumann. 52,994; May 16.
Blue Ribbon. For Butter. Pollock Paper & Box Company. 52,997; May 16.
Borden's Grade B Vitamin D Pasteurized Milk. For Grade B Vitamin D Pasteurized Milk. Borden Company. 52,974; May 16.
Bozeman's Big P's. For Canned Peas. Bozeman Canning Company. 52,975; May 16.
Chief Lucky. For Writing Tablets. P. E. Trouche. 52,998; May 16.
Continental Opera. For Footwear. Frank C. Meyer Co. Inc. 52,992; May 16.
County Kist. For Canned Corn. Blue Earth Canning Company. 52,973; May 16.
Dutch Wife. For Pillows. Burton-Dixie Corporation. 52,976; May 16.
E-Z Open Safety Keg. For Kegs! Columbia Steel Company. 52,979; May 16.
Exquisite Footwear. For Footwear. A. C. Clayton Printing Company. 52,978; May 16.
Frenchies. For Footwear. Frank C. Meyer Co. Inc. 52,991; May 16.
Golden Acres. For Oranges. Ventura County Orange & Lemon Association. 53,002; May 16.
Good Advice. For Oranges. Ventura County Orange & Lemon Association. 53,003; May 16.
Heavy Waxed Paper. For Heavy Waxed Paper. American Tissue Mills. 52,970; May 16.
Hunter Straight Rye Whiskey "First Over the Bars". For Straight Rye Whiskey. Hunter Baltimore Rye Distillery, Inc. 52,985; May 16.
Kimble Double-Purpose Glasbar. For Towel Bars. Kimble Glass Company. 52,986; May 16.
Lemon Lime Rickey. For Lemon Lime Rickey. California Fruit Growers Exchange. 52,977; May 16.
Lucone Herb Tonic. For a Non-Alcoholic Herb Tonic for the Hair and Scalp. Lucone Incorporated. 52,988; May 16.
Master X. For a Bleacher, Cleaner, Deodorizer and Disinfectant. Master Chemical Company. 52,989; May 16.
Medley's Private Stock. For Kentucky Straight Bourbon Whiskey. Daviess County Distilling Company. 52,981; May 16.
Menasha Whole Wheat Sliced. For Bread. Menasha Products Company. 52,990; May 16.
N-P-K (Pronounce Enpeekay) Food for Garden and Indoor Plants. For a Food for Garden and Indoor Plants. Fena's Soluble Garden Products. 52,982; May 16.
O & C. For Potato Sticks. Olney & Carpenter, Inc. 52,995; May 16.
Rah-Zoom-Ah. For Rockets. T. G. Hitt. 52,984; May 16.
Silver Craft. For Oranges. Ventura County Orange & Lemon Association. 53,004; May 16.
Smart Shoes. For Shoes. Frank C. Meyer Co. Inc. 52,993; May 16.
Tel-A-Vision Sales Method. For Advertising Display Books. X-Ray Sales Method, Inc. 53,006; May 16.
Union Auto Polish. For Auto Polish. Union Oil Company of California. 52,999; May 16.
Union Radiator Flush. For a Radiator Cleaner. Union Oil Company of California. 53,000; May 16.
Valley Sweet. For Butter. Pollock Paper & Box Company. 52,996; May 16.
Waxed Refrigerator Paper. For Waxed Refrigerator Paper. American Tissue Mills. 52,969; May 16.
Whiteeth. For Liquid Dentrifice. N. Levine. 52,987; May 16.
"X" Karwash. For a Car Wash. "X" Laboratories, Inc. 53,005; May 16.

LIST OF PRINTS

Baldy Dan the Gulftex Man. Start the Gin Season off With this Double Header. For Gin. Gulftex Drug Co. 17,388; May 16.
Baldy Dan the Gulftex Man. Feature Gulftex Brands for Favorite Drinks. For Rum and Gin. Gulftex Drug Co. 17,389; May 16.
Baldy Dan, the Gulftex Man, Salute. For Whiskies. Gulftex Drug Co. 17,390; May 16.
Baldy Dan, the Gulftex Man, I Cannot Tell a Lie. For Cordials. Gulftex Drug Co. 17,391; May 16.
Colors by Nature, Paints by Pittsburgh. For Paints. Pittsburgh Plate Glass Company. 17,393; May 16.
Free at Your Grocer's . . . While They Last. For Cereal Food. General Mills, Inc. 17,387; May 16.
Good Measure. For Ale and Beer. Hampden Brewing Company. 17,392; May 16.
It's the Most Popular 'Fancy' Roll I Know! For Flour. General Mills, Inc. 17,385; May 16.
New Way to Make Biscuits. For Biscuit Flour. General Mills, Inc. 17,386; May 16.
Now . . . Tailor-Made Rugs . . . at Ready-Made Prices! For Rugs. Bigelow-Sanford Carpet Co. Inc. 17,383; May 16.
Recessed Head Screws. For Recessed Head Screws, Screw Drivers, and Bits. Reed & Prince Manufacturing Company. 17,394; May 16.
The Smart Modern Way to Cover Floors . . . Choose Tailor-Made Rugs at 'Ready-Made' Prices. For Rugs. Bigelow-Sanford Carpet Co. Inc. 17,384; May 16.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Applied Arts Corporation. (See De Boer, Rudolph F., assignor.)
Breitling, Ernst, Berlin-Tempelhof, and H. Schwenk, Berlin, Germany, assignors to The National Cash Register Company, Dayton, Ohio. Cash register, accounting, and the like machine. Re. 21,078; May 16.
Collins, Joseph L. (See Robinson, P., and Collins.)
Cronyn, Vincent J., and H. Peruzzini, Buffalo, N. Y., assignors to The Tappan Stove Company, Mansfield, Ohio. Apartment stoves. Re. 21,079; May 16.
Daimler Benz Aktiengesellschaft. (See Wagner, Max, assignor.)
De Boer, Rudolph F., Grand Rapids, Mich., assignor to Applied Arts Corporation. Sliding ash receiver. Re. 21,080; May 16.
Engineering & Research Corporation, The, assignee. (See Nelson, Robert O., assignor.)
General Electric Company. (See Rankin, William K., assignor.)
General Railway Signal Company. (See Preston, Neil D., assignor.)
Horst, Tallmon E., Chicago, Ill. Hinge. Re. 21,081; May 16.
Idzal, Milton M., Sioux City, Iowa. Stereoscopic picture. Re. 21,082; May 16.
Lankenau, John R., Brighton, Mass. Garment and fastening means. Re. 21,092; May 16.
Lyon, George A., Allenhurst, N. J., assignor to Lyon Incorporated, Detroit, Mich. Ornamental fender skirt. Re. 21,083; May 16.
Lyon Incorporated. (See Lyon, George A., assignor.)
Motion Picture Electric Products. (See Rose, Jess C., assignor.)
National Cash Register Company, The. (See Breitling, E., and Schwenk, assignors.)
Nelson, Robert O., deceased, Portland, Oreg., by The Engineering & Research Corporation, East Norwalk, Conn., assignee. Variable traffic signal. Re. 21,084; May 16.
O'Neill, Edith L. (See O'Neill, Frank E., assignor.)
O'Neill, Frank E., Los Angeles, assignor to E. L. O'Neill, Glendale, Calif. Perforating casings. Re. 21,085; May 16.
Peruzzini, Henry. (See Cronyn, V. J., and Peruzzini.)
Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. Re. 21,086; May 16.
Rankin, William K., Lansdowne, Pa., assignor to General Electric Company. Vacuum switch. Re. 21,087; May 16.
Robinson, Preston, Williamstown, and J. L. Collins, assignors to Sprague Specialties Company, North Adams, Mass. Electrolytic device. Re. 21,088; May 16.
Rose, Jess C., assignor to Motion Picture Electric Products, Los Angeles, Calif. Focusing means for incandescent studio spotlights. Re. 21,089; May 16.
Schwenk, Hans. (See Breitling, E., and Schwenk.)
Shepherd, Thomas L., London, England. Rubber process. Re. 21,090; May 16.
Sprague Specialties Company. (See Robinson, P., and Collins, assignors.)
Tappan Stove Company, The. (See Cronyn, V. J., and Peruzzini, assignors.)
Wagner, Max, Stuttgart, assignor to Daimler Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Power driven vehicle. Re. 21,091; May 16.

LIST OF DESIGN PATENTEES

Addressograph-Multigraph Corporation. (See Curtis, Franklin E., assignor.)
American Lady Corset Co. Inc. (See Siegel, Eugene, assignor.)
Amerise, Anthony D., Coral Gables, Fla. Dancing toy. 114,802; May 16.
Anderson, Carl J., Lakewood, assignor to The Baker-Raulang Company, Cleveland, Ohio. Vehicle. 114,803; May 16.
Anderson, George W., Akron, Ohio. Tire. 114,741; May 16.
Aro Equipment Corporation, The. (See Van Doren, H., and Johnson, assignors.)
Axman, Henry B., Brookline, Mass. Sandal. 114,777; May 16.
Bair, Scott S., Westminster, Md. Sign. 114,742; May 16.
Baker-Raulang Company, The. (See Anderson, Carl J., assignor.)
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,743; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,744; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,778; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,779; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,780; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,781; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,782; May 16.
Bittel, Edward A., assignor to George B. Hart, Inc., Rochester, N. Y. Flower basket. 114,783; May 16.
Blunt, Royden A., Baltimore, Md. Bottle. 114,745; May 16.
Blunt, Royden A., Baltimore, Md. Bottle. 114,746; May 16.
Bothwell, Dorr, assignor to Gladding, McBean & Co., Los Angeles, Calif. Figurine. 114,747; May 16.
Bothwell, Dorr, assignor to Gladding, McBean & Co., Los Angeles, Calif. Vase or similar article. 114,748; May 16.
Bothwell, Dorr, assignor to Gladding, McBean & Co., Los Angeles, Calif. Vase or similar article. 114,804; May 16.
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Bridge for an ophthalmic mounting. 114,784; May 16.
Brooks, John W., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Combined light bracket and shade. 114,805; May 16.
Brophy, John, Caracas, Venezuela. Game device. 114,749; May 16.
Busey, Benjamin A., York, and R. B. Hartzler, Cly, Pa. Frankfurter cooker. 114,806; May 16.
Byrnes, Phyllis, New York, N. Y. Dress ensemble. 114,840; May 16.
Carpenter, Robert F., Cleveland, Ohio. Holder for paper napkins or the like. 114,750; May 16.
Chernow, Michael, Brooklyn, N. Y. Alphabet for forming monograms or similar articles. 114,841; May 16.
Ciccone, Elizabeth M., New York, N. Y. Redingote. 114,807; May 16.
Cohen, David I., Brooklyn, N. Y. Shoe. 114,785; May 16.
Cohen, Henry, New York, N. Y. Sweater. 114,751; May 16.
Columbus Metal Products, Inc. (See Donley, Harold B., assignor.)
Curtis, Franklin E., Willoughby, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing machine. 114,842; May 16.
Cutler, Adelbert C., Braintree, assignor to Alfred Hale Rubber Company, Quincy, Mass. Combined sole and heel. 114,786; May 16.
De Laurentis, Anthony, Chicago, Ill. Stick for frozen confectionery. 114,752; May 16.
Delman, Max, New York, N. Y. Slipper. 114,787; May 16.
Donley, Harold B., assignor to Columbus Metal Products, Inc., Columbus, Ohio. Lamp mounting bracket or similar article. 114,855; May 16.
Dopyera, Rudolph, Los Angeles, Calif. Book end. 114,871; May 16.
Eastman Kodak Company. (See Hopkins, Roy S., assignor.)
Ehrlich, Maximilian, Cedarhurst, assignor to J. P. Fischer, Inc., New York, N. Y. Air supply device for treating the scalp or the like. 114,843; May 16.
Elfenbein, Bert, New York, N. Y. Tablecloth or similar article. 114,856; May 16.
Epiphone, Inc. (See Sunshine, Herbert S., assignor.)
Epstein, Louis, New York, N. Y. Dress ensemble. 114,878; May 16.
Epstein, Louis, New York, N. Y. Dress. 114,879; May 16.

Fabacher, Joseph J., assignor to Jackson Brewing Company, New Orleans, La. Frame for a display board or the like. 114,808; May 16.
Fabacher, Joseph J., assignor to Jackson Brewing Company, New Orleans, La. Display board or the like. 114,809; May 16.
Feintuck, Rose, New York, N. Y. Cap. 114,880; May 16.
Fewster, James F., Morrisville, Pa. Garment hanger. 114,753; May 16.
Fischer, Benjamin, New York, N. Y. Coat. 114,754; May 16.
Fischer, Benjamin, New York, N. Y. Coat. 114,755; May 16.
Fischer, J. P., Inc. (See Ehrlich, Maximilian, assignor.)
Fletcher, William G., Bogota, N. J. Street tennis bat. 114,810; May 16.
Fracchia, Pauline, New York, N. Y. Dress. 114,844; May 16.
Freedman, Arthur S., Buffalo, N. Y. Watch or similar article. 114,788; May 16.
Fuller, Frank W., St. Paul, Minn. Combination ruler or similar article. 114,756; May 16.
Geist, Bernard, New York, N. Y. Blouse. 114,757; May 16.
Gladding, McBean & Co. (See Bothwell, Dorr, assignor.)
Gladding, McBean & Co. (See Lawyer, Jean, assignor.)
Glas, Morris, New York, N. Y. Child's coat or similar article. 114,857; May 16.
Glenshaw Glass Company. (See Meyer, Albert C., assignor.)
Gottesman, Osias M., New York, N. Y. Textile fabric or similar article. 114,811; May 16.
Government of the United States of America, as represented by the Secretary of War, and his successors in office. (See Taylor, J. G., and Swanson, assignors.)
Graef, Fred, Cincinnati, Ohio. Game board. 114,812; May 16.
H. & K. Furniture Co. (See Hartman, Abraham, assignor.)
Hadley, Company, The. (See Ingleby, George A., assignor.)
Haertel, Walter, Minneapolis, Minn. Fur cleaning apparatus. 114,845; May 16.
Hale, Alfred, Rubber Company. (See Cutler, Adelbert C., assignor.)
Harris, Herbert M., New York, N. Y. Dress. 114,813; May 16.
Harris, Herbert M., New York, N. Y. Dress ensemble. 114,881; May 16.
Harris, Herbert M., New York, N. Y. Dress. 114,882; May 16.
Hart, George B., Inc. (See Bittel, Edward A., assignor.)
Hartman, Abraham, assignor to H. & K. Furniture Co., Inc., New York, N. Y. Table. 114,758; May 16.
Hartzler, Robert B. (See Busey, B. A., and Hartzler.)
Herzog, Henry, Lincoln, Nebr. Tray. 114,883; May 16.
Hobson, Ota O., Charlton, Iowa. Wastebasket. 114,759; May 16.
Hoos, Willem, assignor to Naamlooze Vennootschap: Vereinigde Touwfabrieken, Rotterdam, Netherlands. Rug or similar article. 114,814; May 16.
Hoosier Desk Company. (See Norman, George De M., assignor.)
Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Projection viewing apparatus. 114,789; May 16.
Ingleby, George A., Cranston, assignor to The Hadley Company, Inc., Providence, R. I. Collar holder or similar article. 114,790; May 16.
International Silver Company. (See Mackewicz, Alexandra, assignor.)
Jackson Brewing Company. (See Fabacher, Joseph J., assignor.)
Jacobs, Joseph H., Minneapolis, Minn. Wind driven twin generator. 114,886; May 16.
Johnson, Edwin K., Munday, Tex. Tobacco can. 114,760; May 16.
Johnson, Walker. (See Van Doren, H., and Johnson.)
Kamenstein, Meyer, New York, N. Y. Tea canister. 114,858; May 16.
Kaufman, Solomon, New York, N. Y., assignor to Ostby and Barton Company. Finger ring or similar article. 114,761; May 16.
Kernes, James, Chicago, Ill. Lamp base. 114,846; May 16.
Lawyer, Jean, assignor to Gladding, McBean & Co., Los Angeles, Calif. Vase or similar article. 114,815; May 16.
Lentheric Incorporated. (See McIntosh, Frank, assignor.)
Levine, Abraham, New York, N. Y. Coat. 114,762; May 16.
Lewis, Florence N., New York, N. Y. Handbag. 114,847; May 16.
Lewis, Florence N., New York, N. Y. Handbag. 114,848; May 16.
Lewis, Florence N., New York, N. Y. Handbag. 114,859; May 16.
Lewis, Florence N., New York, N. Y. Handbag. 114,860; May 16.
Livingston, Arnold, New York, N. Y. Collar. 114,884; May 16.
Lockwood Manufacturing Company, The. (See Pater, Ray C., assignor.)
Lusareta, Joseph, San Luis Obispo, Calif. Penholder. 114,791; May 16.
Mackewicz, Alexandra, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. 114,792; May 16.
Madsen, John S., New York, N. Y. Scarf or similar article. 114,793; May 16.
Madsen, John S., New York, N. Y. Scarf or similar article. 114,794; May 16.
Madsen, John S., New York, N. Y. Scarf or similar article. 114,795; May 16.
Madsen, John S., New York, N. Y. Scarf or similar article. 114,796; May 16.
Madsen, John S., New York, N. Y. Scarf or similar article. 114,797; May 16.
Madsen, John S., New York, N. Y. Scarf or similar article. 114,816; May 16.
Madsen, John S., New York, N. Y. Dolly or similar article. 114,817; May 16.
Madsen, John S., New York, N. Y. Tablecloth or similar article. 114,818; May 16.
Madsen, John S., New York, N. Y. Tablecloth or similar article. 114,819; May 16.
Massow, Morris, New York, N. Y. Dress. 114,861; May 16.
Massow, Morris, New York, N. Y. Dress ensemble. 114,862; May 16.
Massow, Morris, New York, N. Y. Dress ensemble. 114,872; May 16.
Massow, Morris, New York, N. Y. Dress ensemble. 114,873; May 16.
Massow, Morris, New York, N. Y. Dress. 114,874; May 16.
Massow, Morris, New York, N. Y. Dress. 114,885; May 16.
Mazer Bros. (See Wuyts, Joseph, assignor.)
McIntosh, Frank, assignor to Lentheric Incorporated, New York, N. Y. Vanity case. 114,863; May 16.
Megibow, George, New York, N. Y. Textile fabric. 114,820; May 16.
Meyer, Albert C., assignor to Glenshaw Glass Company, Glenshaw, Pa. Bottle. 114,763; May 16.
Monnot, Edward L., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Dental unit. 114,821; May 16.
Monnot, Edward L., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Standard for a dental unit or the like. 114,822; May 16.
Monnot, Edward L., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Dental unit. 114,849; May 16.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Automobile heater casing. 114,823; May 16.
Muir, Gordon, Grosse Pointe Park, Mich. Traffic signal. 114,864; May 16.
Muir, Gordon, Grosse Pointe Park, Mich. Traffic signal facing. 114,865; May 16.
Naamlooze Vennootschap: Vereinigde Touwfabrieken. (See Hoos, Willem, assignor.)
Nagel-Chase Mfg. Co. (See Schultz, Edward, assignor.)
New Era Optical Company. (See Simon, Raymond, assignor.)
Norman, George D., assignor to Hoosier Desk Company, Jasper, Ind. Desk. 114,764; May 16.
Norton Lazier Company. (See Schmidt, Louis F., assignor.)
Ostby and Barton Company. (See Kaufman, Solomon, assignor.)
Palmigiano, Anthony, Jr., Brooklyn, N. Y. Display bag. 114,765; May 16.
Pass & Seymour, Inc. (See Brooks, John W., assignor.)
Pater, Ray C., assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Baking pan. 114,766; May 16.
Planeta, Anthony W., Linden, N. J. Basket. 114,798; May 16.
Radtke, Adelbert C., Forest Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Combined spray gun and container cap. 114,866; May 16.
Robb, Frank B., Chagrin Falls, Ohio. Combination desk and play board. 114,767; May 16.
Rogers, Jackson D., Bay Village, Ohio. Chair or similar article. 114,768; May 16.
Rosenbaum, Harry, Denver, Colo. Handkerchief or similar article. 114,850; May 16.
Rubin, Milton H., New York, N. Y. Textile fabric. 114,867; May 16.
Rubin, Milton H., New York, N. Y. Textile fabric. 114,868; May 16.
Rubin, Milton H., New York, N. Y. Textile fabric. 114,869; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking or similar article. 114,824; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,825; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,826; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,827; May 16.

Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,828; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,829; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,830; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,831; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,832; May 16.
Schmidt, Louis F., assignor to Norton Lazier Company, Chicago, Ill. Casing for door closing and checking device or similar article. 114,833; May 16.
Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Smoking stand. 114,769; May 16.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Sears, Roebuck and Co. (See Radtke, Adelbert C., assignor.)
Shapiro, Murray J., New York, N. Y. Wedding gown. 114,799; May 16.
Siegel, Eugene, assignor to American Lady Corset Co. Inc., Detroit, Mich. Girdle. 114,770; May 16.
Simon, Raymond, assignor to New Era Optical Company, Chicago, Ill. Eye goggle frame. 114,800; May 16.
Stahl, Albert R., Somerset, Pa. Lens for a headlight or the like. 114,870; May 16.
Stein, Nathan, New York, N. Y. Coat. 114,771; May 16.
Stearngold, Jacob M., New York, N. Y. Dress. 114,875; May 16.
Sterngold, Jacob M., New York, N. Y. Dress. 114,876; May 16.
Stoll, Sam, New York, N. Y. Jacket. 114,834; May 16.
Sullivan, George D., assignor to Trabert & Hoeffer, Inc., New York, N. Y. Bracelet. 114,835; May 16.
Sunshine, Herbert S., assignor to Epiphone, Inc., New York, N. Y. Electric Hawaiian guitar or similar article. 114,772; May 16.
Sunshine, Herbert S., assignor to Epiphone, Inc., New York, N. Y. Electric Hawaiian guitar or similar article. 114,773; May 16.
Swanson, Oscar A. (See Taylor, J. G., and Swanson.)
Taylor, James G., Fairfield, and O. A. Swanson, Dayton, Ohio, assignors to the Government of the United States of America, as represented by the Secretary of War, and his successors in office. Symmetrically sectioned, all wing cantilever monoplane. 114,851; May 16.
Trabert & Hoeffer, Inc. (See Sullivan, George D., assignor.)
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 114,836; May 16.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 114,837; May 16.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 114,852; May 16.
Unterreiner, Victor, Budapest, Hungary. Scarf. 114,877; May 16.
Van Doren, Harold, and W. Johnson, Toledo, assignors to The Aro Equipment Corporation, Bryan, Ohio. Cabinet for greasing equipment or the like. 114,774; May 16.
Wallace, David A., Detroit, Mich. Sandwich. 114,775; May 16.
Weber Dental Manufacturing Company, The. (See Monnot, Edward L., assignor.)
Weidner, Victor, Port Washington, assignor to The Western Union Telegraph Company, New York, N. Y. Display stand. 114,776; May 16.
Weill, Samuel, New York, N. Y. Ensemble dress. 114,838; May 16.
Weller, Ernest E., Cranston, R. I. Tassel. 114,853; May 16.
Western Union Telegraph Company, The. (See Weidner, Victor, assignor.)
Wojtalewicz, Frank M., Chicago, Ill. Candle holder. 114,839; May 16.
Wojtalewicz, Frank M., Chicago, Ill. Card holder. 114,854; May 16.
Wuyts, Joseph, assignor to Mazer Bros., New York, N. Y. Clip or similar article. 114,801; May 16.
Younghusband, James L., Chicago, Ill. Lipstick case. 114,887; May 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acme Electric & Manufacturing Company, The. (See Comstock, James A., assignor.)
Acme Rayon Corporation. (See Huttinger, Charles A., assignor.)
Adhesive Products Co., The. (See Harrison, Woodford F., assignor.)
Advance Appliance Co. (See Pallister, T. W., assignor, and Leman.)
Aero Safety Brake, Inc. (See Franchi, Aldo M., assignor.)
Aerovox Corporation. (See Georgiev, Alexander, assignor.)
Agfa Ansco Corporation. (See König, Walter, assignor.)
Air Reduction Company. (See Walker, George L., assignor.)
Aitchison, Thomas C. (See Eby, E. D., and Aitchison.)
Aitken, Matthew, Brookline, Mass. Light for golf clubs. 2,158,211; May 16.
Aitken, Roger, Manhasset, New York, N. Y. Powder refill for compacts. 2,158,099; May 16.
Aklin, George H. (See Frederick, C. W., and Aklin.)
Alden, Carroll R., Detroit, Mich., assignor to Ex-Cell-O Corporation. Machine tool and hydraulic operating mechanism therefor. 2,158,060; May 16.
Aldrich, John G., assignor to New England Butt Company, Providence, R. I. Braiding machine. 2,158,266; May 16.
Alexander, Norris J., Algona, Iowa. Hitch. 2,158,316; May 16.
Alien, Clarence W., San Francisco, Calif. Propelling mechanism. 2,158,349; May 16.
Alien, Wallace T., Royal Oak, assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,158,317; May 16.
Allen, William W., Beverly Hills, Calif. Match book making machine. 2,158,350; May 16.
Allgemeine Elektricitatz Gesellschaft. (See Beyerle, Konrad, assignor.)
Allmänna Svenska Elektriska Aktiebolaget. (See Lamma, Uno, assignor.)
Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,158,811; May 16.
Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon oil conversion. 2,158,812; May 16.
Altmyer, John W., Omaha, Nebr. Vehicle guard. 2,158,813; May 16.
Ament, Roger W., Inglewood, assignor to Kelco Company, Los Angeles, Calif. Bread and bakery product. 2,158,392; May 16.
American Brake Shoe and Foundry Company, The. (See Young, Donald H., assignor.)
American Can Company. (See Grover, Victor T., assignor.)
American Enka Corporation. (See van den Bergh, Barend, assignor.)
American Foundry Equipment Company, The. (See Broadfield, Ward H., assignor.)
American Machine & Foundry Company. (See Crighton, J., and Chandler, assignors.)
American Machine & Foundry Company. (See Horgan, George D., assignor.)
American Metal Company, The. (See Heuer, Russell P., assignor.)
American Optical Company. (See Splaine, Edward M., assignor.)
American Rolling Mill Company, The. (See Cole, G. H., and Davidson, assignors.)
American Steel and Wire Company of New Jersey, The. (See Sabol, Ernest J., assignor.)
American Steel and Wire Company of New Jersey, The. (See Stewart, Peter, assignors.)
American Sundries Co. (See Hettinger, George, assignor.)
American Sundries Company. (See Duberstein, S., and Lawner, assignors.)
American Temperature Indicating Company, The. (See Kuhlman, Carl H., assignor.)
American Volth Contact Company. (See Gössler, Dietrich, assignor.)
Ames, Arthur D., and J. F. Furry, assignors to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Valved piston. 2,158,351; May 16.
Amsler, Walter O., Toledo, Ohio, assignor to Frazier-Simplex, Inc., Wilmington, Del. Method of and apparatus for drawing glass. 2,158,669; May 16.
Anaconda Lead Products Company. (See Bowman, R. G. and Knox, assignors.)
Anderson, Bert J., Hammond, Ind. Rear frame member. 2,158,170; May 16.

Anderson, Edmund B., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Flexible coupling. 2,158,212; May 16.
Anderson, Samuel M., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system. 2,158,684; May 16.
Andrews, Andrew T., Rahway, N. J., assignor of one-half to Standard Commercial Tobacco Company, Inc., New York, N. Y. Making harsh tobacco mild and the resultant product thereof. 2,158,565; May 16.
Andrews, Paul D., Schenectady, N. Y., assignor to General Electric Company. Temperature compensated oscillator. 2,158,844; May 16.
Andrie, Michael B., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Handle mounting for window operating means and the like. 2,158,789; May 16.
Andrieu, Robert. (See Urtel, R., Andrieu, and Geiger.)
Anibal, Benjamin H. (See Ericson, A. F., and Anibal.)
Annicq, Joseph, Renaix, Belgium. Spool support or core for the dyeing and for the treatment of textiles on spools. 2,158,889; May 16.
Anteime, Louis X., Paris, France. Connection device. 2,158,890; May 16.
Appleford Paper Products, Ltd. (See Lawson, Albert R., assignor.)
Arbogast, Alfred C., assignor to Northern Indiana Brass Company, Elkhart, Ind. Ball cock. 2,158,267; May 16.
Armitage, Joseph B., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Precision apparatus for machine tools. 2,158,649; May 16.
Armitage, Wilfred. (See Lawson, R. H., and Armitage.)
Armour and Company. (See Koenig, Harry J., assignor.)
Arthur, Harry J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for handling strip material. 2,158,790; May 16.
Ash Products Corporation. (See Ross, Frederick N., assignor.)
Asheraft, John T., Sheridan, Ark. Fishing tool for drill stems. 2,158,814; May 16.
Askania-Werke A. G. (See Wünsch, Guido, assignor.)
Associated Attleboro Manufacturers, Inc. (See Stenberg, Knut E. B., assignor.)
Associated Electric Laboratories, Inc. (See Bellamy, John I., assignor.)
Associated Electric Laboratories, Inc. (See Peterson, Edward S., assignor.)
Associated Telephone & Telegraph Company. (See Saxby, Robert N., assignor.)
Atkins, Harold J., and C. M. Conner, Chico, Calif. Dragline bucket. 2,158,061; May 16.
Atkins, Samuel C., Montvale, and H. E. Scofield, East Orange, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Hydraulic servo system. 2,158,558; May 16.
Atwell, Harold V., White Plains, and M. R. Mandelbaum, assignors to Process Management Company, Inc., New York, N. Y. Production of motor fuel. 2,158,559; May 16.
Atwood Machine Company, The. (See Briggs, Peleg B., assignor.)
Atwood Machine Company, The. (See Gordon, William R., assignor.)
Aulman, Harry E., Woodland, Calif. Well apparatus. 2,158,393; May 16.
Automatic Instrument Company. (See Olson, Phillip W., assignor.)
Avis, Samuel W., Providence, R. I., assignor to The Reece Button Hole Machine Company, Boston, Mass. Button sewing machine. 2,158,171; May 16.
Avis, Samuel W., Providence, R. I., assignor to The Reece Button Hole Machine Company, Boston, Mass. Button sewing machine. 2,158,172; May 16.
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can filling machine. 2,158,767; May 16.
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can filling machine. 2,158,768; May 16.
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can filling machine. 2,158,769; May 16.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Ayer, Raymond B., Verona, N. J., assignor to General Electric Company. Cementing process. 2,158,845; May 16.
Baas, Edmund J., Rochester, N. Y. Shoe tree. 2,158,394; May 16.
Babcock, Reuben E. (See Morrison, J. R., and Babcock.)
Bagdadi, Mary, et al. (See Kadri, Vassaf, assignor.)
Baird Television Limited. (See Willans, Peter W., assignor.)

Bakelite Corporation. (See Hanson, N. D., and Kritzmacher, assignors.)
Baker, Judd O., Westmont, N. J., assignor to Radio Corporation of America. Voice and music mixer for use in sound recording. 2,158,268; May 16.
Baker, Rollyn H., Dayton, Ohio, and D. G. Bishop, Chicago, Ill. Motor operated tooth brush. 2,158,738; May 16.
Balachowsky, Georges, Paris, France, assignor to General Electric Company. Electric circuit breaker. 2,158,846; May 16.
Baltimore Salesbook Company, The. (See Morrison, J. R., and (Babcock, assignor).)
Bamberger, Alexander, assignor of one-third to J. Ruml, and one-third to H. Kreuzer, Winnipeg, Manitoba, Canada. Water faucet. 2,158,566; May 16.
Barker, Jesse W., Geneva, N. Y. Back draft vent for ranges. 2,158,685; May 16.
Barmer Maschinenfabrik Aktiengeselischaft. (See Bochmann, Otto, assignor.)
Barnes Charles D., Long Beach, and W. A. S. Wright, assignors to Union Oil Company of California, Los Angeles, Calif. Recovery of essential oils. 2,158,670; May 16.
Barnhart, George E., Pasadena, Calif. Airfoil construction. 2,158,686; May 16.
Barnitz, Emanuel B., Johnstown, Pa. Utensil plug. 2,158,922; May 16.
Baron, Charles S., Tiffin, Ohio. Closure for receptacles. 2,158,923; May 16.
Barrett Company, The. (See Eckert, Clarence R., assignor.)
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett, Edward L., La Grange, assignor to Utah Radio Products Company, Chicago, Ill. Shaft coupling. 2,158,100; May 16.
Bartlett, Harry D., Delavan, assignor of one-half to D. W. Thompson, Elkhorn, Wis. Conversion unit. 2,158,770; May 16.
Basen, Georg, and E. Schaeffer, Burghausen, Upper Bavaria, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Bavaria, Germany. Preparing chlorinated ethylenes. 2,158,213; May 16.
Baumann, Johannes, Heidenheim-on-the-Brenz, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Germany, and St. Pocelten, Austria, a copartnership. Elastic coupling. 2,158,847; May 16.
Baxter, Ernest L., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. 2,158,173; May 16.
Bayer, Otto. (See Taube, C., and Bayer.)
Beacher, Andrew, Lexington, Ill. Parking mechanism for automobiles. 2,158,891; May 16.
Beck, Christoph, and F. Kremp, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of oxidation product of paraffin hydrocarbons. 2,158,650; May 16.
Becker, Robert A., Sr., deceased (S. P. Becker, executor), and S. P. Becker, assignors to S. P. Becker, Poughkeepsie, N. Y. Wire splice. 2,158,892; May 16.
Becker, Stephen P., executor. (See Becker, Robert A., Sr., and S. P.)
Becket, Frederick M., New York, and R. Franks, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Steel. 2,158,651; May 16.
Becket, Frederick M., New York, and R. Franks, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Steel. 2,158,652; May 16.
Beckwith, Lawton B., San Pedro, Calif. Preventing corrosion of metallic objects. 2,158,771; May 16.
Beckwith, Lawton B., San Pedro, assignor to Union Oil Company of California, Los Angeles, Calif. Asphaltic coating and protecting pipe lines with same. 2,158,772; May 16.
Beckley, Henry L., Glen Ellyn, and J. G. Whiting, Chicago, Ill., assignors to The Electrimatic Corporation. Automatic valve. 2,158,715; May 16.
Beiersdorf, Hans, Berlin-Dahlem, Germany. Door tension device for motor vehicles. 2,158,893; May 16.
Bell, Forrest F., assignor to Curtis Companies Incorporated, Clinton, Iowa. Circle window. 2,158,395; May 16.
Beimann, Elizabeth, administratrix. (See Beimann, Wilhelm.)
Beimann, Wilhelm, deceased; E. Beimann, Bochum, Germany, administratrix, assignor, by mesne assignments, to the firm Otto-Wilputte Ovenbouw Maatschappij N. V., The Hague, Netherlands. Coke oven door. 2,158,491; May 16.
Bell Telephone Laboratories, Incorporated. (See Bishop, Walter M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Fitch, Karl E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Legg, Victor E., assignor.)
Bell Telephone Laboratories, Incorporated. (See McIntosh, Frank H., assignor.)
Bellamy, John I., Brookfield, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Stock quotation system. 2,158,101; May 16.
Benander, George B., Yalesville, assignor to Monowatt Electric Corporation, Bridgeport, Conn., Electric socket. 2,158,848; May 16.

Bendix Home Appliances, Inc. (See Bendix, Vincent, assignor.)
Bendix, Vincent, South Bend, Ind., assignor to Bendix Home Appliances, Inc., Detroit, Mich. Washing machine. 2,158,815; May 16.
Benedict, Frank, Rutherford, N. J., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 2,158,974; May 16.
Benedict, Frank, Rutherford, N. J., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 2,158,975; May 16.
Bennett, Claude L. (See Lawson, R. R., Bennett, and Urie.)
Bereslavsky, Euphime V., New York, N. Y. Motor fuel. 2,158,050; May 16.
Berg, Herbert, and H. Heim, Burghausen, and F. Leiss, Munich, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Producing monovinyl acetylene. 2,158,051; May 16.
Bergdoll, John G., assignor to York Ice Machinery Corporation, York, Pa. Refrigeration. 2,158,716; May 16.
Berger, Samuel I., Newark, N. J. Toy. 2,158,052; May 16.
Bernhardt, Rudolph, Chicago, Ill. Sprayer. 2,158,318; May 16.
Bester, Leonard R., Staten Island, N. Y. Ship hull construction. 2,158,214; May 16.
Betzold, Max F., C. Rascher, and C. A. Torp, assignors to Rascher & Betzold, Inc., Chicago, Ill. Burette. 2,158,102; May 16.
Beyerle, Konrad, Kiel, assignor to Allgemeine Elektricitatz Gesellschaft, Berlin, Germany. Coupling device. 2,158,103; May 16.
Bezzenberger, Frederick K., Shaker Heights, assignor to The Standard Envelope Manufacturing Company, Cleveland, Ohio. Treatment of sheet material. 2,158,560; May 16.
Biggert, Florence C., Jr., Crafton, and C. F. Buente, assignors to United Engineering & Foundry Company, Pittsburgh, Pa. Method and apparatus for treating metal. 2,158,687; May 16.
Biggs, Orrick H., Beverly, assignor to Hygrade Sylvania Corporation, Salem, Mass. Reflector bulb lamp. 2,158,561; May 16.
Bingham, Samuel H., Jr., Highland Park, Ill. Target trap. 2,158,739; May 16.
Birnstock, William W., York, Pa. Pistol rod. 2,158,396; May 16.
Bishop, Dale G. (See Baker, R. H., and Bishop.)
Bishop, Walter M., Huntington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Undersea cable system. 2,158,492; May 16.
Bjereus, Sven R. (See Sandberg, J. T., and Bjereus.)
Blacher, Benjamin, assignor to Blacher Brothers, Providence, R. I. Bag frame. 2,158,955; May 16.
Blacher Brothers. (See Blacher, Benjamin, assignor.)
Blackhawk Mfg. Co. (See Schultz, Edward H., assignor.)
Blair, Charles M. (See Carruthers, T. F., and Blair.)
Blake, Harold D., Cleveland Heights, Ohio, assignor to General Electric Company. Electric lamp. 2,158,849; May 16.
Blameuser, Edward B., Niles Center, Ill. Necktie holder. 2,158,616; May 16.
Block-Jones Photo Co. (See Knobel, Max, assignor.)
Blomberg, Charles A. (See Mistretta, A., Blomberg, and Willene.)
Blomberg, Martin P., Hinsdale, assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Articulated car. 2,158,062; May 16.
Bloomfield, Samuel, Chicago, Ill. Can opener. 2,158,319; May 16.
Bobst, Henri, Lausanne, Switzerland. Press for cutting cardboard and scrap ejector therefor. 2,158,053; May 16.
Bochmann, Otto, Remscheid-Linnep, Rhineland, assignor to Barmer Maschinenfabrik Aktiengesellschaft, Wuppertal-Oberbarmen, Germany. Thread drawing off device on double twist twisting machines. 2,158,607; May 16.
Bock, Carl J., Birmingham, assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Power-divided transmission. 2,158,320; May 16.
Bogress, Thomas G., Kirksville, Mo. Token dispenser. 2,158,608; May 16.
Bol, Cornelis, and A. Linnemans, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Lighting device. 2,158,215; May 16.
Bonotto, Michele, Evansville, Ind., assignor to Extractol Process, Ltd., Wilmington, Del. Apparatus for feeding countercurrent extraction units. 2,158,782; May 16.
Booth, George M., Westfield, assignor to Wallace & Tiernan Company, Inc., Belleville, N. J. Gas supply apparatus. 2,158,976; May 16.
Borg-Warner Corporation. (See Anderson, Edmund B., assignor.)
Borg-Warner Corporation. (See Mistretta, A., Blomberg, and Willene, assignors.)
Borg-Warner Corporation. (See Terrell, Ralph A., assignor.)
Borm, Ferdinand H., Elgin, Ill. Pneumatic hammer. 2,158,567; May 16.
Borm, Ferdinand H., Elgin, Ill. Pneumatic hammer. 2,158,568; May 16.

Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Bouton, Fletcher P., St. Petersburg, Fla. Fish lure. 2,158,924; May 16.
Bowen, Carroll T., Miami, Fla. Arm rest for fishing poles. 2,158,104; May 16.
Bowen, Lot, Bakersfield, Calif., assignor to Western Gulf Oil Company, Pittsburgh, Pa. Formation tester. 2,158,569; May 16.
Bowman-Manifold, Michael, Worplesdon Station, Surrey, and J. Collard, Hammersmith, London, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electric signal transmission system. 2,158,978; May 16.
Bowman, Reginald G., Gary, and W. J. Knox, Jr., Hammond, Ind., assignors to Anaconda Lead Products Company, New York, N. Y. Electrolytic process for the manufacture of litharge. 2,158,269; May 16.
Boyers, Charles F. (See Montgomery, W. J., and Boyers.)
Boyle, Robert B., assignor, by mesne assignments, to Consolidated Carton, Inc., Chicago, Ill. Carton structure. 2,158,216; May 16.
Bradbury, John H., Ashton-on-Mersey, England. Gear box. 2,158,054; May 16.
Brailsford, Joseph D., and R. F. O'Neill, London, England, assignors to Radio Corporation of America. Artificial line for use on radio and other high frequencies. 2,158,493; May 16.
Braswell, Welca W., assignor of one-half to M. B. Shinholser, Washington, D. C. Indicating instrument. 2,158,925; May 16.
Breisch, Edgar W., Lancaster, N. Y., assignor to National Battery Company, St. Paul, Minn. Industrial truck and tractor battery charger. 2,158,979; May 16.
Brennan, Raymond F., Attleboro, Mass. Ecclesiastical device. 2,158,531; May 16.
Brewer-Titchener Corporation, The. (See Wenn, Floyd D., assignor.)
Brierley, Abraham W., and N. Dunkerley, Monkseaton, and J. Hunter, Newcastle-on-Tyne, England. Device for delivering milk bottles or the like. 2,158,397; May 16.
Briggs Manufacturing Company. (See Wetzel, Edward A., assignor.)
Briggs, Peleg B., Ashway, R. I., assignor to The Atwood Machine Company, Stonington, Conn. Retainer wire for thread guides. 2,158,609; May 16.
Brinkman, Roy A., Oak Park, Ill. Toy. 2,158,740; May 16.
Brintzinger, Wilhelm, Berlin-Johannisthal, Germany. Testing plant for internal combustion engines. 2,158,894; May 16.
Brisbane, Robert E., Delhi, N. Y. Carrier for milk products. 2,158,217; May 16.
British Acoustic Films Ltd. (See Kolb, Otto K., assignor.)
Britton, Edgar C., F. B. Smith, J. E. Livak, and W. W. Sunderland, assignors to The Dow Chemical Company, Midland, Mich. Arylamino-derivatives of 2,4-dinitro phenol. 2,158,956; May 16.
Broadfield, Ward H., Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind. Cleaning sheet metal and the like. 2,158,063; May 16.
Brock, Clarence A., assignor, by mesne assignments, to Rexair, Inc. Vacuum cleaner. 2,158,717; May 16.
Brooks, William H., Fairfax, Calif. Paper pastry cone. 2,158,688; May 16.
Brouhon, Georges, assignor to Solvay & Cie, Brussels, Belgium. Closing metal drums. 2,158,218; May 16.
Brown, Cyrus R., Denver, Colo., assignor of fifty per cent to C. N. Ford, Springer, and fifty per cent to S. Colley, Wagon Mound, N. Mex. Ore pulverizer. 2,158,321; May 16.
Brown, Froye, Miami, Fla. Dressmaker form. 2,158,895; May 16.
Brown, Hugh S., Harvey, Ill., asisgnor to The Hubron Company, Inc., Somerville, N. J. Rail-car set-off apparatus. 2,158,352; May 16.
Browne, Floyd A., Cleveland, assignor of one-half to J. D. Overholt, Wooster, Ohio. Conveying mechanism. 2,158,781; May 16.
Browne, Kenneth A., Westwood, N. J., assignor to Wright Aeronautical Corporation. Controllable cowling. 2,158,270; May 16.
Brundin, Nils, Romford, England. Locating metals and minerals in the ground. 2,158,980; May 16.
Bryant, Tom, Cross Plains, Tex. Automobile tire. 2,158,398; May 16.
Bub, George L. (See Matteson, N. F., Bub, and Moore.)
Buchanan, George W., Pollock, Idaho, assignor to Metals Recovery Co., Inc., Spokane, Wash. Apparatus for treating complex ores. 2,158,689; May 16.
Budd, Edward G., Manufacturing Company. (See Dean, Albert G., assignor.)
Buente, Charles F. (See Biggert, F. C., Jr., and Buente.)
Bugbird, H. C., Company. (See Turner, William D. assignor.)
Bullen, Jim C., Thorp, Wash. Complementary rotary engine. 2,158,532; May 16.
Burgess, Charles O., Niagara Falls, N. Y., assignor to Oxwell Acetylene Company. Cast iron welding rod. 2,158,105; May 16.
Burnett, Richard W., Chicago, Ill. Hand brake. 2,158,055; May 16.
Burns, Walter, et al. (See Eastin, Rollie R., assignor.)
Burns, William, et al. (See Eastin, Rollie R., assignor.)
Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)
Buschbeck, Wernar, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Short wave antenna. 2,158,271; May 16.
Butler, John W., Schenectady, N. Y., assignor to General Electric Company. Electric circuit. 2,158,926; May 16.
Byron Jackson Co. (See Grau, H. E., and Hertel assignors.)
Byron Jackson Co. (See Mendenhall, E., and Van Horn, assignors.)
Cadwell, Leon L., assignor to Industrial Patents Corporation, Chicago, Ill. Carcass treatment. 2,158,106; May 16.
Caimi, Agostino. (See Caimi, Domenico and A.)
Caimi, Domenico and A., Philadelphia, Pa. Hair tonic. 2,158,791; May 16.
Calhoun, Ernest N., assignor, by mesne assignments, to E. L. Wiegand, Pittsburgh, Pa. Electrical heating apparatus. 2,158,602; May 16.
Calhoun, Ernest N., assignor, by mesne assignments, to E. L. Wiegand, Pittsburgh, Pa. Electric heating apparatus. 2,158,603; May 16.
Calhoun, Ernest N., Pittsburgh, Pa., assignor, by mesne assignments, to E. L. Wiegand. Electric heating apparatus. 2,158,604; May 16.
Campbell, James R., Ontario, Calif., assignor to General Electric Company. Temperature control device. 2,158,850; May 16.
Campbell, Sumner E., Long Beach, Calif. Treating oils. 2,158,690; May 16.
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film for photographic color process. 2,158,174; May 16.
Carbide and Carbon chemicals Corporation. (See Carruthers, T. F., and Blair, assignors.)
Carbine and Carbon Chemicals Corporation. (See Doolittle, Arthur K., assignor.)
Carlino, Alexander, Cleveland, Ohio. Electric plug. 2,158,691; May 16.
Carlisle, Richard W. (See Fisher, G., Tandler, and Carlisle.)
Carothers, Wallace H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamides and their production. 2,158,064; May 16.
Carr, Donald E., Long Beach, and M. L. Wade, Naples, assignors to Union Oil Company of California, Los Angeles, Calif. Dewaxing oil. 2,158,671; May 16.
Carr, Donald E., Long Beach, and M. L. Wade, Naples, assignors to Union Oil Company of California, Los Angeles, Calif. Dewaxing oil. 2,158,672; May 16.
Carruthers, Thomas F., South Charleston, and C. M. Blair, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Esters of glycol and acylated hydroxy acids. 2,158,107; May 16.
Carter Carburetor Corporation. (See Renner, Harold G., assignor.)
Carter, Haskell C., Portland, Oreg., and T. A. Marsh, Chicago, Ill., assignors to Iron Fireman Manufacturing Company, Portland, Oreg. Overfeed stoker. 2,158,673; May 16.
Carter, John F., assignor to Modern Equipment Corporation, Defiance, Ohio. Lift structure. 2,158,399; May 16.
Carthage Mills Incorporated. (See Cavey, Arthur T., assignor.)
Casco Products Corporation. (See Cohen, Joseph H., assignor.)
Castator, Jesse C., et al. (See Eastin, Rollie R., assignor.)
Castator, Loretta, et al. (See Eastin, Rollie R., assignor.)
Cavey, Arthur T., Cincinnati, Ohio, assignor to Carthage Mills Incorporated, Carthage, Ohio. Means and method for the manufacture of decorative needled fabrics. 2,158,533; May 16.
Ceader, Joseph D., Cleveland Heights, Ohio, assignor to General Electric Company. Socket. 2,158,851; May 16.
Ceader, Joseph D., Cleveland Heights, Ohio, assignor to General Electric Company. Electric socket. 2,158,852; May 16.
Celanese Corporation of America. (See Dreyfus, C., and Platt, assignors.)
Celanese Corporation of America. (See Finlayson, D., and Crawshaw, assignors.)
Celanese Corporation of America. (See Platt, Herbert, assignor.)
Chaffee, Carl C., assignor to Continental Oil Company, Ponca City, Okla. Producing hydrocarbons suitable for motor fuel. 2,158,353; May 16.
Chamberlain, Joseph R., assignor to York Ice Machinery Corporation, York, Pa. Refrigeration system. 2,158,403; May 16.
Chamberlin, Clarence P., Pleasant Ridge, assignor to Metal Mouldings Corporation, Detroit, Mich. Metal forming working device. 2,158,400; May 16.
Chamberlin, Clarence P., Pleasant Ridge, and J. H. Toner, assignors to Metal Mouldings Corporation, Detroit, Mich. Power bender. 2,158,401; May 16.
Chamberlin, Coleman R., Brooklyn, N. Y. Label and index holder. 2,158,402; May 16.

Champion Paper and Fibre Company, The. (See Montgomery, W. J., and Boyers, assignors.)
Chance, A. B., Co. (See Craven, Claud C., assignor.)
Chandler, Milton E. (See Hunt, Scott F., assignor.)
Chandler and Price Company, The. (See Jirousek, Joseph F., assignor.)
Chandler, Robert J. A. (See Crighton, J., and Chandler.)
Chandonnet, Laura M., Haverhill, Mass. Hair waving device. 2,158,570; May 16.
Chapman, Charles F. (See Rieck, A. W., Chapman, and Wambach.)
Chapman, Frank C., Modesto, Calif. Barrel washing and rinsing machine. 2,158,404; May 16.
Charles, Arthur. (See Smith, E. W., Charles, and Gaskin.)
Charles, Roland W., J. George, and P. A. Spilios, South Boston, Mass. Automatic folding machine. 2,158,896; May 16.
Chase-Shawmut Company, The. (See Taylor, Elmer H., assignor.)
Chicago Pneumatic Tool Company. (See Lear, Earl B., assignor.)
Chilton, Roland, Ridgewood, assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Rocker arm bearing. 2,158,272; May 16.
Chilton, Roland, Ridgewood, assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Controllable cowling. 2,158,273; May 16.
Christman, John N. H., Cleveland, Ohio, assignor to Evans Products Company, Detroit, Mich. Vehicle body air circulating and conditioning apparatus. 2,158,741; May 16.
Cincinnati Time Recorder Company, The. (See Wesche, Bjarne A., assignor.)
Cippico, Giuseppe, Rome, Italy. Smoking device. 2,158,897; May 16.
Clarke, Charles E. (See Poole, J. V., and Clarke.)
Claus, Bruno, Halle-on-the-Saale, Germany. Producing photographic emulsions. 2,158,219; May 16.
Coanda, Henri, Cilchy, France, assignor to Société Anonyme d'Etudes des Brevets et Procédés Coanda-Societe Coanda. Device for rendering visible invisible rays. 2,158,405; May 16.
Coe, Mayne R., Washington, D. C. Tobacco product and obtaining the same. 2,158,610; May 16.
Cohen, Joseph H., assignor to Casco Products Corporation, Bridgeport, Conn. Windshield heater. 2,158,674; May 16.
Cole, Guerney H., and R. L. Davidson, assignors to The American Rolling Mill Company, Middletown, Ohio. Producing magnetic materials. 2,158,065; May 16.
Coleman, Gerald H., and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Hydroxy-alkyl ethers of substituted phenols. 2,158,957; May 16.
Coleman, Gerald H., and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Hydroxy-alkyl ethers of 4-tertiary-alkyl phenols. 2,158,958; May 16.
Coleman, Gerald H., and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Hydroxy-alkyl ethers of tertiary-alkyl phenols. 2,158,959; May 16.
Coleman, Gerald H., and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Hydroxy-alkyl ethers. 2,158,960; May 16.
Collard, John. (See Bowman-Manifold, M., and Collard.)
Collett, Charles H., and A. R. Thompson, Huntington Park, Calif. Liner setter. 2,158,406; May 16.
Colley, Sim, et al. (See Brown, Cyrus R., assignor.)
Collins, Charles T., Reubens, Idaho. Mechanically operated eraser for typewriters. 2,158,534; May 16.
Collins, Joseph L., and R. Teeple, assignors to Sprague Specialties Company, North Adams, Mass. Electrolytic device. 2,158,981; May 16.
Collins, William D., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerator. 2,158,274; May 16.
Colonial Broach Company. (See Hart, William A., assignor.)
Commercial Ingredients Corporation. (See Dunajeff, Leonid A., assignor.)
Comstock, James A., assignor to The Acme Electric & Manufacturing Company, Cleveland, Ohio. High leakage transformer. 2,158,275; May 16.
Conn, C. G., Ltd. (See Way, George H., assignor.)
Connell, William H. (See Strange, J. W., and Connell.)
Conner, Charles M. (See Atkins, H. J., and Conner.)
Consolidated Carton, Inc. (See Boyle, Robert B., assignor.)
Consolidated Carton Inc. (See Jones, W. Bartlett, assignor.)
Continental Oil Company. (See Chaffee, Carl C., assignor.)
Continental Oil Company. (See Dyer, Joseph G., assignor.)
Continental Oil Company. (See Prescott, Harold R., assignor.)
Conzetti, Achille, assignor to the firm J. R. Geigy S. A., Basel, Switzerland. Azo dyestuffs and their manufacture. 2,158,407; May 16.
Cook, Nelson E., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Method and solution for pickling and cleaning metal. 2,158,992; May 16.
Cook, Victor L., Pewamo, Mich. Heating stove. 2,158,742; May 16.
Cooke, Harold. (See Webster, Clarence O., assignor.)
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Image reproduction. 2,158,853; May 16.
Cooper, Albert N., deceased, Keene, Tex., by M. H. Cooper, administratrix, Roy, Mo. Spark plug. 2,158,743; May 16.
Cooper & Cooper, Inc. (See Donchi, Mendel, assignor.)
Cooper, Mary H., administratrix. (See Cooper, Albert N.)
Coppola, James, and G. R. Robinson, Lynn, Mass. Brake mechanism. 2,158,175; May 16.
Cormier, Phillippe D., New Bedford, Mass. Candle extinguisher. 2,158,744; May 16.
Corteen, Harry, R. P. Foulds, and F. C. Wood, assignors to Tootal Broadhurst Lee Company Limited, Manchester, England. Treatment of textile materials. 2,158,494; May 16.
Cowgill, William W., Fairfield, Conn., assignor to Sardik Incorporated, Jersey City, N. J. Treatment of food materials. 2,158,354; May 16.
Crago, Arthur, Mulberry, Fla., assignor to Phosphate Recovery Corporation, New York, N. Y. Concentrating calcite. 2,158,220; May 16.
Craven, Claud C., Kansas City, Mo., assignor to A. B. Chance Co. Piston expander. 2,158,355; May 16.
Crawshaw, Harry. (See Finlayson, D., and Crawshaw.)
Crighton, John, and R. J. A. Chandler, assignors to American Machine & Foundry Company, New York, N. Y. Paste applying device. 2,158,495; May 16.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Receiver for amplitude or phase modulated waves. 2,158,276; May 16.
Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
Crown Cork & Seal Company. (See McManus, Charles E., assignor.)
Crown Zellerbach Corporation. (See West, Wilfred H., assignor.)
Cruzan, Charles C., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,158,056; May 16.
Culp, Robert G., Conemaugh, Pa. Ice cap. 2,158,571; May 16.
Curran, Maurice D., Glendale, Mo., assignor to Tar & Petroleum Process Company, Chicago, Ill. Coke making process. 2,158,816; May 16.
Curtis Companies Incorporated. (See Bell, Forrest F., assignor.)
Curtis Companies Incorporated. (See Madsen, Sern, assignor.)
Curtis, Myron S., assignor to W. W. Potter, Pawtucket, R. I. Automatic engine control. 2,158,572; May 16.
Curtiss-Wright Corporation. (See Engelhardt, Lloyd F., assignor.)
Curtiss-Wright Corporation. (See Page, George A., Jr., assignor.)
Cutler-Hammer, Inc. (See Kuhn, Clarence W., assignor.)
Cutler-Hammer, Inc. (See Stevens, William C., assignor.)
Czelja, Oskar. (See Lierg, Friedrich, assignor.)
Dahlin, Stanley V., Chicago, Ill. Rack for rubber stamps or the like. 2,158,221; May 16.
Daley, Joseph J., assignor, by mesne assignments, to Research Products Corporation, Boston, Mass. Means and process for the amplification of radiant energy. 2,158,961; May 16.
Dalimata, John M., Chester, Mont. Chaff baling attachment for a harvester. 2,158,745; May 16.
Danciger Oil & Refineries, Inc. (See Isham, R. M., and Ryan, assignors.)
Dannehl, Kurt. (See Kotowski, P., and Dannehl.)
Davidson, Arthur C., Chicago, Ill. Shock absorber. 2,158,535; May 16.
Davidson, Robert L. (See Cole, G. H., and Davidson.)
Davies, Lynn E., Park Ridge, assignor to White Cap Company, Chicago, Ill. Packaging apparatus. 2,158,675; May 16.
Davio, Silvio, Springfield, Mass. Bed lamp. 2,158,408; May 16.
Davisson, John A., Harrisville, W. Va. Wire stretcher. 2,158,927; May 16.
Dayton, Ernest L., Detroit, Mich. Compensating valve mechanism. 2,158,222; May 16.
Dayton Manufacturing Company, The. (See Knoll, Harry E., assignor.)
Dean, Albert G., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Support. 2,158,783; May 16.
Dean, Albert G., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Battery box. 2,158,784; May 16.
De Forest, Alfred V., Marlboro, N. H., and F. B. Doane, Wilmette, assignors, by mesne assignments, to Magnaflux Corporation, Chicago, Ill. Testing method and apparatus. 2,158,409; May 16.
Déglon, Henry, assignor to S. Morgan Smith Company, York, Pa. Control system. 2,158,108; May 16.
Deich, Sol, New York, N. Y. Tobacco cartridge and making same. 2,158,928; May 16.
De Jonge, Cornelius P. (See McLelland, M., and de Jonge.)
De Mooy, Eugene L., assignor to M. M. De Mooy, Cleveland, Ohio. Stoker. 2,158,223; May 16.
De Mooy, Marcella M. (See De Mooy, Eugene L., assignor.)

Densmore, Samuel P., assignor of fifty per cent to M. E. Smith, Baltimore, Md. Evacuating economizer for clothes pressing machines. 2,158,617; May 16.
De Remer, Jay G., Darien, and G. W. Dunham, Westport, Conn., assignors to J. G. De Remer Research Corporation. Gyratory compressor. 2,158,109; May 16.
De Remer, J. G., Research Corporation. (See De Remer, J. G., and Dunham, assignors.)
Deutsche Eisenwerke Aktiengesellschaft. (See Lauer, Karl, assignor.)
Dewey, Haywood G., assignor to Eastman Kodak Company, Rochester, N. Y. Forming die for shaping tubes. 2,158,176; May 16.
Dilley, Edgar M. (See Schopmeyer, Erwin E., assignor.)
Dinwiddie, Joseph, Caneyville, Ky. Harrow. 2,158,746; May 16.
Doane, Foster B. (See de Forest, A. V., and Doane.)
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Passenger vehicle lighting. 2,158,653; May 16.
Dobrowolski, Alfons, Racine, Wis. Tricycle. 2,158,618; May 16.
Doetzel, Fred, Jr., Cedar Rapids, Iowa. Developing device. 2,158,817; May 16.
Dolph, Vern H., Fort Lupton, Colo. Shears. 2,158,277; May 16.
Donchi, Mendel, Newark, N. J., assignor to Cooper & Cooper, Inc., Brooklyn, N. Y. Treating metal. 2,158,278; May 16.
Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Vinyl resin finishing system. 2,158,111; May 16.
Dopyera Brothers. (See Dopyera, John.)
Dopyera, Emil, et al. (See Dopyera, John, assignor.)
Dopyera, John, Los Angeles, Calif., assignor to E., R., L., and R. Dopyera, doing business under name Dopyera Brothers. Stringed musical instrument. 2,158,322; May 16.
Dopyera, Louis, et al. (See Dopyera, John, assignor.)
Dopyera, Robert, et al. (See Dopyera, John, assignor.)
Dopyera, Rudolph, et al. (See Dopyera, John, assignor.)
Doran, Albert B., assignor to International Cimena Inc., Los Angeles, Calif. Method and apparatus for the recovery of metal from a liquid. 2,158,410; May 16.
Doros, Andrew G., Elizabeth, N. J. Tire wrapper removing device. 2,158,747; May 16.
Dorsett, Leonard P., Bethlehem, Pa., assignor to The Standard Electric Time Company, Springfield, Mass. Interval timer. 2,158,654; May 16.
Dough-King, Inc. (See Lagaard, Alexander S. T., assignor.)
Douthitt, Frank W., Ortonville, assignor to E. C. Kraus, Le Center, Minn. Machine for preparing corn for canning on the cob. 2,158,977; May 16.
Dow Chemical Company, The. (See Britton, E. C., Smith, Livak, and Sunderland, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Zemba, assignors.)
Dow Chemical Company, The. (See Kirk, Roy C., assignor.)
Dowling, Philip H., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Manufacture of electrical rectifiers. 2,158,748; May 16.
Drake, Leonard C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Salt mixture for use as a thermophore. 2,158,854; May 16.
Drews, Gustav. (See Hansen, James, assignor.)
Dreyfus, Camille, New York, N. Y., and H. Platt, Cumberland, Md., assignors to Celanese Corporation of America. Treatment of textile fabrics and the product thereof. 2,158,110; May 16.
Driver-Harris Company. (See Sammon, Joseph, assignor.)
Dubbs, Carbon P., assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill. Hydrocarbon oil conversion. 2,158,962; May 16.
Duberstein, Samuel, and N. Lawner, Brooklyn, N. Y., assignors to American Sundries Company, Inc. Sterilizer. 2,158,692; May 16.
Du Four, Jean, Antwerp, Belgium. Typographical single-type composing machine. 2,158,224; May 16.
Dunajeff, Leonid A., assignor to Commercial Ingredients Corporation, New York, N. Y. Resilient sheet. 2,158,929; May 16.
Dunham, George W. (See De Remer, J. G., and Dunham.)
Dunkerley, Norman. (See Brierley, A. W., Dunkerley, and Hunter.)
Du Pont, E. I., de Nemours & Company. (See Carothers, Wallace H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hansley, Virgil L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Muely, Walter C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Rossander, Swanie S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Werntz, James H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Williams, Ira, assignor.)
Dutchess Tool Company. (See Seem, Charles B., assignor.)
Dwight & Lloyd Sintering Company. (See Lloyd, Thorne E., assignor.)
Dwyer Products Corporation. (See Sweney, Don D., assignor.)
Dyer, Joseph G., assignor to Continental Oil Company, Ponca City, Okla. Apparatus for oil well drilling. 2,158,356; May 16.
Dym, Joseph B., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Gas-mask eyepiece mounting. 2,158,693; May 16.
Eastin, Rollie R., assignor of five per cent to J. C. and L. Castator, ten per cent to W. Burns, ten per cent to R. A. Gray, Jr., ten per cent to W. Burns, and fourteen per cent to R. Smith, Port Huron, Mich. Transmission mechanism. 2,158,573; May 16.
Eastman, Joseph P., Manitowoc, Wis. Coupling construction. 2,158,619; May 16.
Eastman, Joseph P., Manitowoc, Wis. Coupling. 2,158,620; May 16.
Eastman Kodak Company. (See Baxter, Ernest L., assignor.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Dewey, Haywood G., assignor.)
Eastman Kodak Company. (See Frederick, C. W., and Aklin, assignors.)
Eastman Kodak Company. (See Frederick, C. W., and Schade, assignors.)
Eastman Kodak Company. (See Hickman, K. C. D., and Hecker, assignors.)
Eastman Kodak Company. (See Mees, Charles E. K., assignor.)
Eastman Kodak Company. (See Morse, Richard S., assignor.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Schade, Willy, assignor.)
Eastman Kodak Company. (See Sheppard, S. E., and Vanselow, assignors.)
Eastman Kodak Company. (See Tetzlaff, Edwin F., assignor.)
Eaton Manufacturing Company. (See Russell, Robert C., assignor.)
Eby, Eugene D., and T. C. Aitchison, Pittsfield, Mass., assignors to General Electric Company. Hydraulic press for cable connectors. 2,158,855; May 16.
Eckert, Clarence R., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Making shingles. 2,158,357; May 16.
Edhofer, Georg, and G. Wolf, Munich, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemischer Industrie, G. m. b. H., Munich, Bavaria, Germany. Degreasing machine. 2,158,621; May 16.
Edison General Electric Appliance Company. (See McCormick, Francis H., assignor.)
Edwards, E. H., Company, The. (See White, Herbert E., assignor.)
Electric & Musical Industries Limited. (See Bowman-Manifold, M., and Collard, assignors.)
Electric & Musical Industries Limited. (See Strange, J. W., and Connell, assignors.)
Electrimatic Corporation, The. (See Beekley, H. L., and Whiting, assignors.)
Electro Metallurgical Company. (See Becket, F. M., and Franks, assignors.)
Elgin National Watch Company. (See Lawson, R. R., Bennett, and Urie, assignors.)
Elion, Leonard, Scheveningen, Netherlands. Restraining or preventing the action of proteolytic enzymes. 2,158,411; May 16.
Elliott, Harmon P., Watertown, Mass. Thin printing device for addressing machines. 2,158,749; May 16.
Elmore, Austin E., assignor to P. M. and J. A. Virtue, Los Angeles, Calif., doing business as copartners under firm name and style of Virtue Bros. Mfg. Co. Chair 2,158,225; May 16.
Elsey, James R., Maplewood, Mo. Feeding device. 2,158,226; May 16.
Emerson Electric Mfg. Co., The. (See Weber, Victor, assignor.)
Emery, Charles R., Dearborn, Mich. Wall construction. 2,158,412; May 16.
Emery Industries, Inc. (See Reddish, Warren T., assignor.)
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Mercury boiler. 2,158,856; May 16.
Engelhardt, Lloyd F., Ferguson, Mo., assignor to Curtis-Wright Corporation. Wing flap mechanism. 2,158,676; May 16.
Eppel, Leo J., Minneapolis, Minn. Fishhook. 2,158,794; May 16.
Erbach, Fred R., assignor to General Refrigeration Corporation, Beloit, Wis. Header feed evaporator. 2,158,792; May 16.
Erbach, Fred R., and R. H. Swart, assignors to General Refrigeration Corporation, Beloit, Wis. Refrigerating apparatus. 2,158,793; May 16.
Erickson, Carl I., Glendale, Ariz. Switch. 2,157,930; May 16.
Ericson, Anton F., Dayton, Ohio, and B. H. Anibal, Pontiac, assignors to General Motors Corporation, Detroit, Mich. Brake operating mechanism. 2,158,323; May 16.
Evans, Charles P. (See Gullion, C. H., and Evans.)

Evans, Kelley D., Hamilton, assignor of one-half to C. E. Hooven, Hamilton, Ohio. Typewriter. 2,158,066; May 16.
Evans, Louis P., Beacon, assignor to The Texas Company, New York, N. Y. Separation of wax from oil. 2,158,358; May 16.
Evans Products Company. (See Christman, John N. H., assignor.)
Evans Products Company. (See Lintern, Alfred R., assignor.)
Ex-Cell-O Corporation. (See Alden, Carroll R., assignor.)
Exley, William H., Market Harborough, and W. Haddon, Forest Hill, London, England. Control valve for liquid elevating apparatus. 2,158,898; May 16.
Extractol Process, Ltd. (See Bonotto, Michele, assignor.)
Farnsworth, Philo T., San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Cathode ray tube. 2,158,279; May 16.
Farnsworth Television & Radio Corporation. (See Farnsworth, Philo T., assignor.)
Febrey, Harold H., South Orange, N. J., assignor to The Rails Company, New Haven, Conn. Rail fastening. 2,158,057; May 16.
Felks, Alma, New York, N. Y. Safety cock. 2,158,574; May 16.
Feinberg, Archie, assignor to United States Air Conditioning Corporation, Minneapolis, Minn. Dual deflector arrangement for ventilating systems. 2,158,413; May 16.
Fenton, Ray M., Shaker Heights, Ohio. Method of and apparatus for cleaning metallic sheets. 2,158,694; May 16.
Ferrocart Corporation of America. (See Loughlin, William D., assignor.)
Finlayson, Donald, and H. Crawshaw, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of stiffened fabrics. 2,158,112; May 16.
Finley, Walter H. (See Trader, W. S., Hamilton, and Finley.)
Finnigan, Lawrence L., Seattle, Wash. Viscosity regulated fluid fuel control means. 2,158,359; May 16.
Firsching, Joseph A., Utica, N. Y. Take-up mechanism for knitting machines. 2,158,177; May 16.
Fischbacher, Kathleen, Hoboken, N. J. Convertible rifle rack. 2,158,623; May 16.
Fisher, George, and W. S. Tandler, New York, and R. W. Carlisle, Flushing Heights, Long Island, assignors to Lefler Corporation, New York, N. Y. Textile machine. 2,158,536; May 16.
Fisher, Lawrence E. (See Frank, W. H., Fisher, and Messing.)
Fitch, Karl E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter trunking system. 2,158,113; May 16.
Flaherty, Michael P., Quincy, Mass. Flush tank control. 2,158,750; May 16.
Flanagan, Bernard L., Wellsville, N. Y., assignor to Flanagan Supply Company. Fastening device for beehives. 2,158,067; May 16.
Flanagan Supply Company. (See Flanagan, Bernard L., assignor.)
Fleischer, Paul W., Weehawken, assignor to New Jersey Machine Corporation, Hoboken, N. J. Machine for feeding sheets, labels, and the like. 2,158,280; May 16.
Fleming, Frank E. (See Fleming, Ivan R. and F. E.)
Fleming, Ivan R. and F. E., Liverpool, England. Propulsion gear for ship's boat. 2,158,414; May 16.
Focher, Frank, Jr., Worden, Mont. Power transmission. 2,158,227; May 16.
Food Machinery Corporation. (See Hait, James M., assignor.)
Foote Company, The. (See Lundbye, Axel E., assignor.)
Ford, Charles N., et al. (See Brown, Cyrus R., assignor.)
Ford, George E., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y. Thermometer. 2,158,751; May 16.
Ford, James G., Forest Hills, and C. F. Hill, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fireproof cable compound. 2,158,281; May 16.
Ford, Larkin J., assignor of one-half to W. P. Hayden, Owensboro, Ky. Fishing rod. 2,158,932; May 16.
Formhals, Anton, assignor of forty-five one-hundredths to R. Schreiber-Gastell, Mainz, Germany. Producing artificial fibers. 2,158,415; May 16.
Formhals, Anton, assignor of forty-five one-hundredths to R. Schreiber-Gastell, Mainz, Germany. Method and apparatus for the production of artificial fibers. 2,158,416; May 16.
Forss, Fritz V., Aurora, assignor to Independent Pneumatic Tool Co., Chicago, Ill. Electric drill. 2,158,228; May 16.
Foss, Oscar H., assignor to The Wooster Brush Company, Wooster, Ohio. Device for smoothing wallpaper and the like. 2,158,695; May 16.
Foster, Katherine. (See Foster, Roy V. and K.)
Foster, Roy V. and K., Jackson Heights, N. Y. Cabinet for powdering and turning inside-out of rubber gloves. 2,158,575; May 16.
Foulds, Robinson P. (See Corteen, H., Foulds, and Wood.)
Fowler, Jesse J., Eudora, Ark. Cotton drying and conditioning apparatus. 2,158,752; May 16.
Foxboro Company, The. (See Hall, Malcolm B., assignor.)
Franchi, Aldo M., assignor to Aero Safety Brake, Inc., New York, N. Y. Brake shoe. 2,158,818; May 16.
Franco-American Patents Limited. (See Vigneault, Edmond, assignor.)
Frank, Harrison J. L., Detroit, Mich. Fuse block and parts thereof. 2,158,655; May 16.
Frank, William H., Detroit, Mich. Making bus ducts. 2,158,656; May 16.
Frank, William H., L. E. Fisher, and J. A. Messing, Detroit, Mich. Switching apparatus. 2,158,657; May 16.
Frank, William H., J. A. Messing, and C. T. Hollingsworth, Detroit, Mich. Distribution panel. 2,158,658; May 16.
Franks, Russell. (See Becket, F. M., and Franks.)
Frazier-Simplex, Inc. (See Amsler, Walter O., assignor.)
Frederick, Charles W., and G. H. Aklin, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic objective. 2,158,179; May 16.
Frederick, Charles W., and W. Schade, assignors to Eastman Kodak Company, Rochester, N. Y. Lens system. 2,158,178; May 16.
Freudenberger, Heinrich. (See Starck, Warner, assignor.)
Friedmann, Alex. (See Nemetz, Gustav, assignor.)
Fritz, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Ultra-high-frequency multiplier. 2,158,114; May 16.
Fryba, Josef, Prague, Czechoslovakia. Safety and signaling apparatus, in particular for railway crossings. 2,158,931; May 16.
Fullillove, Jack P., Shreveport, La. Ambulatory insecticide distributor. 2,158,115; May 16.
Furry, John F. (See Ames, A. D., and Furry.)
Furry, John F., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Evaporator coil and the like. 2,158,324; May 16.
Garratt, Walter A., Covington, Ky., assignor to P. G. Voudersmith. Sound creating device. 2,158,537; May 16.
Garrison, Forrest C., assignor to The Oscar C. Rixson Co., Chicago, Ill. Closing and checking unit. 2,158,417; May 16.
Gaskin, Richard W. E. (See Smith, E. W., Charles, and Gaskin.)
Gates, John C. (See Johnstone, H. G., and Gates.)
Geiger, Max. (See Urtel, R., Andrieu, and Geiger.)
Geigy, J. R., S. A. (See Conzetti, Achille, assignor.)
Geigy, J. R., S. A. (See Mettler, Carl, assignor.)
Gemex Company. (See Roy, Wilfrid J., assignor.)
General Aniline Works, Inc. (See Neresheimer, H., and Vilsmeier, assignors.)
General Aniline Works, Inc. (See Roh, Nikolaus, assignor.)
General Aniline Works, Inc. (See Taube, C., and Bayer, assignors.)
General Aniline Works, Inc. (See Zerweck, W., and Ritter, assignors.)
General Electric Company. (See Andrews, Paul D., assignor.)
General Electric Company. (See Ayer, Raymond B., assignor.)
General Electric Company. (See Balachowsky, Georges, assignor.)
General Electric Company. (See Blake, Harold D., assignor.)
General Electric Company. (See Butler, John W., assignor.)
General Electric Company. (See Campbell, James R., assignor.)
General Electric Company. (See Ceader, Joseph D., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Eby, E. D., and Aitchison, assignors.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Griffith, Rolland C., assignor.)
General Electric Company. (See Hall, C. I., and Hathaway, assignors.)
General Electric Company. (See Hoffman, Bruno, assignor.)
General Electric Company. (See Horikoshi, Shinichiro, assignor.)
General Electric Company. (See Jacobsen, William E., assignor.)
General Electric Company. (See Leeds, Laurance M., assignor.)
General Electric Company. (See Lewis, John O., assignor.)
General Electric Company. (See Lord, Harold W., assignor.)
General Electric Company. (See Manning, Charles R., assignor.)
General Electric Company. (See Mathews, Paul, assignor.)
General Electric Company. (See Mueller, Adolf G., assignor.)

General Electric Company. (See Palmer, Harry L., assignor.)
General Electric Company. (See Phelps, Roscoe G., assignor.)
General Electric Company. (See Randall, Gordon E., assignor.)
General Electric Company. (See Schwabacher, Gerhard P., assignor.)
General Electric Company. (See Stacy, John D., assignor.)
General Electric Company. (See Sweet, Alva L., assignor.)
General Motors Corporation. (See Ericson, A. F., and Anibal, assignors.)
General Motors Corporation. (See Gould, Richard E., assignor.)
General Motors Corporation. (See Henney, Charles F., assignor.)
General Motors Corporation. (See Hull, H. B., and McCormack, assignors.)
General Motors Corporation. (See Koehring, R. P., and Hildabolt, assignors.)
General Motors Corporation. (See Newill, E. B., and McCormack, assignors.)
General Motors Corporation. (See Rasmussen, Olaf, assignor.)
General Motors Corporation. (See Saunders, Laurence P., assignor.)
General Motors Corporation. (See Shippy, Leo C., assignor.)
General Motors Corporation. (See Smith, Harry F., assignor.)
General Motors Corporation. (See Taylor, Fred D., assignor.)
General Printing Ink Corporation. (See Misuraca, William N., assignor.)
General Railway Signal Company. (See Benedict, Frank, assignor.)
General Refrigeration Corporation. (See Erbach, Fred R., assignor.)
General Refrigeration Corporation. (See Erbach, F. R., and Swart, assignors.)
George, James. (See Charles, R. W., George, and Spilios.)
George, Ralph W., Riverhead, N. Y., assignor to Radio Corporation of America. Transmission line. 2,158,496; May 16.
Georgia Kaolin Company. (See Maloney, William T., assignor.)
Georgiev, Alexander, Dayton, Ohio, assignor to Aerovox Corporation. Electrode terminal construction. 2,158,363; May 16.
Gianatasio, Frank, New York, N. Y. Auxiliary air control valve. 2,158,819; May 16.
Gibson, Charles J., Greenville, and J. Touborg, Tecumseh, assignors to Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerating apparatus. 2,158,718; May 16.
Gibson Electric Refrigerator Corporation. (See Gibson, C. J., and Touborg, assignors.)
Gideon, Roy M., Palmyra, assignor to MacAndrews and Forbes Company, Camden, N. J. Dispersible sulphur and making the same. 2,158,899; May 16.
Gilman Fanfold Corporation. (See Mabon, Carl R., assignor.)
Gish, Daniel B., West Springfield, Mass. Hose. 2,158,538; May 16.
Gisholt Machine Company. (See Godfriaux, Louis E., assignor.)
Gits, Remi J., Chicago, Ill. Oil seal. 2,158,418; May 16.
Glassley, Eugene E., South Whitley, Ind. Extension tube for inflating automobile tires. 2,158,576; May 16.
Globe American Corporation. (See Thiem, Carl, assignor.)
Globe Corporation. (See Hagstrom, Joseph E., assignor.)
Goddard, Robert H., Roswell, N. Mex. Gyroscopic steering apparatus 2,158,180; May 16.
Goddard, Robert H., Roswell, N. Mex. Delayed action reversing switch. 2,158,181; May 16.
Goddard, Robert H., Roswell, N. Mex. Heat insulating coupling. 2,158,182; May 16.
Godfrey, Edward C., Detroit, Mich. Beverage glass. 2,158,230; May 16.
Godfriaux, Louis E., assignor to Gisholt Machine Company, Madison, Wis. Machine tool chuck. 2,158,058; May 16.
Goebel Aktien-Gesellschaft. (See Köhler, Wilhelm, assignor.)
Goffaux, Felicien (Felix), deceased, Shreveport, La., by L. D. Goffaux, administratrix, New York, N. Y. Machine for cutting sheet glass. 2,158,900; May 16.
Goffaux, Lydia D., administratrix. (See Goffaux, Felicien (Felix).)
Goldthwaite, George R., South Easton, assignor to B. F. Sturtevant Company, Boston, Mass. Grille making apparatus. 2,158,229; May 16.
Good, Frederick C., Philadelphia, Pa. Three carrier mechanism. 2,158,497; May 16.
Good, Frederick C., Philadelphia, Pa. Tackle for flat knitting machines. 2,158,498; May 16.
Good, Paul E., Riverton, N. J. Rotary compressor. 2,158,933; May 16.
Gordon, M. Martin, Chicago, Ill. Container and applicator for cosmetics. 2,158,901; May 16.
Gordon, William R., assignor to The Atwood Machine Company, Stonington, Conn. Textile machine. 2,158,611; May 16.
Gordon, William R., assignor to The Atwood Machine Company, Stonington, Conn. Swinging spindle unit for textile machines. 2,158,612; May 16.
Gosselin, Thomas, Attleboro, Mass., assignor to Swank Products, Inc. Key holder. 2,158,964; May 16.
Gossen, Martin J., Whitefish Bay, Wis. Weather strip and sash balance. 2,158,963; May 16.
Gössler, Dietrich, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc., New York, N. Y. Hydraulic power plant. 2,158,231; May 16.
Gould, Richard E., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,158,540; May 16.
Govers, Francis X., Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill. Manufacture of lubricating oil. 2,158,360; May 16.
Govers, Francis X., Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill. Manufacture of lubricating oil. 2,158,361; May 16.
Graham, Charles E., Maricopa, Calif. Retaining device. 2,158,116; May 16.
Grammes, L. F., & Sons, Inc. (See Weindel, Fred, Jr., assignor.)
Grassmann, Wolfgang, Dresden, and H. Reich, Berlin, Germany. Decomposing scleroproteins and new products obtained thereby 2,158,499; May 16.
Gratiot Fixture & Supply Company, The. (See Whitsett, Robert, assignor.)
Grau, Herbert E., and R. K. Hertel, Vernon, assignors to Byron Jackson Co., Huntington Park, Calif. Drilling hook. 2,158,232; May 16.
Gray, Raymond A., Rock, Kans. Changeable sign. 2,158,902; May 16.
Gray, Robert A., Jr., et al. (See Eastin, Rollie R., assignor.)
Gray, Robert L., Brooklyn, N. Y. Envelope. 2,158,233; May 16.
Gregory, Charles E., Chicago, Ill. Brake. 2,158,624; May 16.
Grettle, Donald P., assignor to Industrial Patents Corporation, Chicago, Ill. Gelatin treatment. 2,158,117; May 16.
Griebsch, Franz, Dessau, assignor to T. Junkers, Ganting, near Munich, Germany. Composite sheet metal wall structure. 2,158,234; May 16.
Griffith, Rolland C., Schenectady, N. Y., assignor to General Electric Company. Protective means for hot-cathode rectifiers. 2,158,934; May 16.
Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,158,235; May 16.
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Defecator. 2,158,362; May 16.
Gronauer, Max H., Memphis, Tenn. Lapel fastener. 2,158,719; May 16.
Grotte, Harry A., San Francisco, and S. Richardson, Los Angeles, Calif. Garment hanger. 2,158,539; May 16.
Grove, Julia E., et al. (See Grove, Marvin H., assignor.)
Grove, Martin H., assignor, by mesne assignments, to M. H. and J. E. Grove, Berkeley, Calif. Gas regulator. 2,158,068; May 16.
Grover, George, Jr., Hadley, Mich. Internal combustion engine. 2,158,419; May 16.
Grover, Victor T., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Control device for can making machinery. 2,158,069; May 16.
Grubb, Gunnar, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Liquid fuel burner for absorption refrigeration apparatus. 2,158,282; May 16.
Grubelic, Nicholas, Great Neck, N. Y. Device for dispensing and mixing paint and the like. 2,158,773; May 16.
Grubelic, Nicholas, Great Neck, N. Y. Paint dispensing machine. 2,158,774; May 16.
Grubelic, Nicholas, Great Neck, N. Y. Automatic weighing machine for dispensing and mixing paint. 2,158,795; May 16.
Guerra, Ugo, Rome, Italy. Magnetic field direction finder. 2,158,500; May 16.
Gullion, Carroll H., Chicago, and C. P. Evans, Wilmette; said Gullion assignor to Swift and Company, Chicago, Ill. Container. 2,158,118; May 16.
Gustafson, Roy, Fields Landing, Calif. Clutch steering mechanism for tractors. 2,158,935; May 16.
Gutman, Louis, assignor to Independent Lock Company, Fitchburg, Mass. Tumbler lock. 2,158,501; May 16.
Hacklander, Hans, Tinley Park, and H. J. Le Vesconte, Western Springs, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,158,562; May 16.
Hacklander, Hans, Tinley Park, and H. J. Le Vesconte, Western Springs, assignors to Union Special Machine Company, Chicago, Ill. Presser foot for sewing machines. 2,158,563; May 16.
Haddock, Norman H., and C. H. Lumsden, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Dyestuffs. 2,158,283; May 16.
Haddon, Walter. (See Exley, W. H., and Haddon.)

Hagelin, Boris, and B. Kock, Stockholm, Sweden. Show counter or display case. 2,158,420; May 16.
Hagstrom, Joseph E., Adrian, Mich., assignor, by mesne assignments, to Globe Corporation, Chicago, Ill. Printing machine. 2,158,284; May 16.
Hahn, Arthur M., Washington, D. C., assignor to Mathews Conveyer Company, Ellwood City, Pa. Articulated resilient conveyer. 2,158,364; May 16.
Haines, John E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system for steam jet refrigerating mechanism. 2,158,059; May 16.
Haislip, Albert S., Fredericksburg, Va. Portable camp stove. 2,158,236; May 16.
Hait, James M., San Marino, assignor to Food Machinery Corporation, San Jose, Calif. Pump lubricating apparatus. 2,158,696; May 16.
Haley, Timothy, assignor of one-half to G. R. Krumholtz, Springfield, Ohio. Sewer cleaning tool. 2,158,577; May 16.
Hall, Chester L., Schenectady, and C. M. Hathaway, Niskayuna, N. Y., assignors to General Electric Company. Temperature control device. 2,158,857; May 16.
Hall, Malcolm B., assignor to The Foxboro Company, Foxboro, Mass. Liquid level indicator. 2,158,785; May 16.
Hamilton, Charles H. (See Trader, W. S., Hamilton, and Finley.)
Hancock, William T., Long Beach, Calif. Oil refining system. 2,158,365; May 16.
Hansen, Donald W., and P. R. Shildneck, Decatur, Ill., assignors, by mesne assignments, to Prolamine Products Incorporated, Dover, Del. Prolamine base composition. 2,158,481; May 16.
Hansen, James, Flushing, assignor of one-half to G. Drews, Brooklyn, N. Y. Valve. 2,158,070; May 16.
Hansen, Sydney H., Berkeley, Calif. Earthquake actuated shut-off valve. 2,158,753; May 16.
Hansley, Virgil L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ester condensations. 2,158,071; May 16.
Hanson, Norman D., Bloomfield, N. J., and E. Kritzmacher, Manchester, Conn., assignors to Bakelite Corporation, New York, N. Y. Brittle fusible resin. 2,158,366; May 16.
Harrah, Clayton C., assignor to National Standard Company, Niles, Mich. Manufacture of tubing. 2,158,796; May 16.
Harris, Benjamin R., Chicago, Ill., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Cake batter and shortening for making cake. 2,158,775; May 16.
Harrison, John K. M., Ogontz, Pa. Receptacle opener and spout. 2,158,502; May 16.
Harrison, Woodford F., assignor to The Adhesive Products Co., San Francisco, Calif. Parcel handle. 2,158,697; May 16.
Hart, William A., Detroit, Mich., assignor to Colonial Broach Company. Spiral broach device. 2,158,720; May 16.
Hascham, Abraham T., Dedham, Mass. Barber's chair. 2,158,183; May 16.
Haskin, Paul E., et al. (See Long, John E., assignor.)
Hathaway, Claude M. (See Hall, C. I., and Hathaway.)
Hathaway, Jarrett L., Manhasset, N. Y., assignor to Radio Corporation of America. Program phase reverser. 2,158,820; May 16.
Hathaway, Jarrett L., Manhasset, N. Y., assignor to Radio Corporation of America. Program phase reverser. 2,158,821; May 16.
Hayden, William P. (See Ford, Larkin J., assignor.)
Health-Glo Laboratories, Inc. (See Schulte, George A., assignor.)
Hecker, John C. (See Hickman, K. C. D., and Hecker.)
Heigis, Henry E., West Orange, assignor to Walter Kidde & Company, Inc., Bloomfield, N. J. Static eliminating means for carbon dioxide apparatus. 2,158,965; May 16.
Helm, Hans. (See Berg, H., Helm, and Leiss.)
Hemming, Harold, Dedham, and C. E. Sweet, Mattapan, assignors to B. F. Sturtevant Company, Boston, Mass. Air conditioning system for passenger vehicles. 2,158,966; May 16.
Hemphill Company. (See Lawson, R. H., and Armitage, assignors.)
Hemphill Company. (See Lawson, R. H., and Smith, assignors.)
Henney, Charles F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,158,367; May 16.
Hennings, Raymond A., New Orleans, La. Volume indicator. 2,158,936; May 16.
Hertel, Richard K. (See Grau, H. E., and Hertel.)
Hettinger, George, East Rutherford, N. J., assignor, by mesne assignments, to American Sundries Co., Inc., Brooklyn, N. Y. Sterilizer. 2,158,698; May 16.
Heuer, Russell P., Bryn Mawr, Pa., assignor to The American Metal Company, Limited, New York, N. Y. Copper refining apparatus. 2,158,625; May 16.
Hewel, Frank B., Pittsburgh, Pa. Shelf system for delivery vehicles. 2,158,503; May 16.
Hibbard, Bert. (See Schulenberg, Frederick H., assignor.)
Hickman, Kenneth C. D., and J. C. Hecker, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Toning and intensifying solutions. 2,158,184; May 16.
Hickman, Kenneth C. D., and J. C. Hecker, assignors to Eastman Kodak Company, Rochester, N. Y. Toning and intensifying solutions. 2,158,185; May 16.
Hickman, Kenneth C. D., and J. C. Hecker, assignors to Eastman Kodak Company, Rochester, N. Y. Toning and intensifying solutions. 2,158,186; May 16.
Hildabolt, John M. (See Koehring, R. P., and Hildabolt.)
Hilderbrant, Daniel W., Farmersville, Calif. Clothespin. 2,158,937; May 16.
Hileman, James, Swissvale, Pa. Hot water heater. 2,158,122; May 16.
Hill, Charles F. (See Ford, J. G., and Hill.)
Hill, Roy W., Chicago, Ill. Garment. 2,158,797; May 16.
Hill, Warren C., North Platte, Nebr. Radio frequency selection and oscillatory amplification element. 2,158,822; May 16.
Hilliard, Edward F., Sacramento, Calif. Rotary road broom. 2,158,967; May 16.
Hills, Russell B., and H. E. Pleasant, Grand Rapids, Mich.; said Pleasant assignor to said Hills. Popcorn dispensing device. 2,158,119; May 16.
Hirschberg, Charles A., Mountain Lakes, N. J. Detachable drill bit. 2,158,120; May 16.
Hirschberg, Charles A., Mountain Lakes, N. J. Auxiliary fog lens for automobiles. 2,158,121; May 16.
Hoag, Roderick W., Melrose, Mass. Folding box. 2,158,578; May 16.
Hobart Manufacturing Company, The. (See Meeker, D. A., and Johnston, assignors.)
Hodgdon, Paul E. (See Hodgdon, Theodore A. and P. E.)
Hodgdon, Theodore A., Whitingham, Vt. Apparatus for the manufacture or reduction of laminated sheet material. 2,158,754; May 16.
Hodgdon, Theodore A., Wilbraham, Mass., and P. E. Hodgdon, Readsboro, Vt. Laminated sheet material for use in making paper bags or wrappers. 2,158,755; May 16.
Hodgkins, Albert F., and A. M. C. Jameson, Slough, England. Apparatus for reconditioning or painting pipe lines. 2,158,579; May 16.
Hoe, R., & Co. (See Huck, William F., assignor.)
Hoerichs, Edward, Baltimore, Md. Water closet for boats. 2,158,938; May 16.
Hoffmann, Bruno, Berlin-Spandau, Germany, assignor to General Electric Company. Power plant apparatus for aircraft. 2,158,858; May 16.
Hoke, William E., Baltimore, Md. Lapping or abrading tool. 2,158,123; May 16.
Holden, Bertha B., executrix. (See Holden, Richard R.)
Holden, John, Reddish, Stockport, England. Manufacture of sensitized photographic printing paper and cloth. 2,158,422; May 16.
Holden, Richard R., deceased, by B. B. Holden, executrix, Highland Park, assignor, by mesne assignments, to R. Roy Holden, Inc., Chicago, Ill. Overhead trolley system. 2,158,421; May 16.
Holden, R. Roy, Inc. (See Holden, Richard R.)
Hollingsworth, Clarence T. (See Frank, W. H., Messing, and Hollingsworth.)
Holman, Erling J., Brooklyn, N. Y. Protector for clothes-lines. 2,158,659; May 16.
Holmes, Will K., Tulsa, Okla., assignor to The Texas Company, New York, N. Y. Cracking oils. 2,158,504; May 16.
Honn, Harlan V., San Francisco, Calif. Heavy fuel engine. 2,158,124; May 16.
Hooven, C. E. (See Evans, Kelley D., assignor.)
Horgan, George D., London, England, assignor to American Machine & Foundry Company, New York, N. Y. Feeding of cards from a stack. 2,158,505; May 16.
Horikoshi, Shinichiro, Tokyo, Japan, assignor to General Electric Company. Electric protective system and apparatus. 2,158,859; May 16.
Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Wheel ornament. 2,158,126; May 16.
Horn, Harry J., and C. R. Stough, assignors to Motor Wheel Corporation, Lansing, Mich. Vehicle wheel. 2,158,125; May 16.
Horn, Otto. (See Lange, H., and Horn.)
Horstmann, Herman C., Jr., Cloverdale, Ohio. Corn cutter. 2,158,541; May 16.
Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)
Houghton, Edward M., assignor to M. J. O'Brien, Limited, Cobalt, Ontario, Canada. Liner for ball mills. 2,158,187; May 16.
Houser, William P., Belle Center, Ohio. Lawn trimmer and edger. 2,158,580; May 16.
Howard and Bullough, Limited. (See Wilson, William, assignor.)
Hoyt, Roy C., Duluth, Minn. Brake mechanism. 2,158,699; May 16.
Hoyt, Roy C., Duluth, Minn. Brake mechanism. 2,158,700; May 16.
Hubron Company, The. (See Brown, Hugh S., assignor.)
Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y. Make-ready and proof machine. 2,158,237; May 16.
Huff, Ernest, Elm Grove, assignor to Wehr Steel Company, West Allis, Wis. Method of and apparatus for grinding toothed wheels. 2,158,423; May 16.
Hull, Harry B., and A. A. McCormack, Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation. Refrigerating apparatus. 2,158,542; May 16.

Hunt, Donald B., Troy, N. Y. Combination metal-wood ski. 2,158,325; May 16.
Hunt, Scott F., assignor to M. E. Chandler, Detroit, Mich. Automatic choke. 2,158,424; May 16.
Hunter, John. (See Brierley, A. W., Dunkerley, and Hunter.)
Hurja, Arthur O., et al. (See Stratton, Glen S., assignor.)
Hurt, Victor C., Dallas, Tex. Formation display device. 2,158,368; May 16.
Hussey, Philip W., North Berwick, Maine. Supporting horse. 2,158,939; May 16.
Huttinger, Charles A., Lakewood, assignor to Acme Rayon Corporation, Cleveland, Ohio. Means for use in spinning and in liquid-treating tubular rayon packages. 2,158,581; May 16.
Hvid, Rasmus M., Wilmette, Ill. Thermal atmolysis and apparatus employing same. 2,158,238; May 16.
Hyde, Herman S., Deerfield, Mass. Mechanical movement for toy figures and so forth. 2,158,860; May 16.
Hygrade Sylvania Corporation. (See Biggs, Orrick H., assignor.)
Hygrade Sylvania Corporation. (See O'Neill, George D., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Beck, C., and Kremp, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lange, H., and Horn, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Meyer, Oskar, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pfleiderer, Georg, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Riedl, H-J., and Pfleiderer, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Starck, W., and Freudenberger, assignors.)
Illinois Tool Works. (See Olson, Carl G., assignor.)
Imperial Chemical Industries Limited. (See Haddock, N. H., and Lumsden, assignors.)
Independent Lock Company. (See Gutman, Louis, assignor.)
Independent Pneumatic Tool Co. (See Forss, Fritz V., assignor.)
Indian Refining Company. (See Govers, Francis X., assignor.)
Industrial Patents Corporation. (See Cadwell, Leon L., assignor.)
Industrial Patents Corporation. (See Grettie, Donald P., assignor.)
Industrial Patents Corporation. (See Urbain, W. M., and Jensen, assignors.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Industrial Patents Corporation. (See Wright, David M., assignor.)
Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
Insley, Birddine T., San Francisco, Calif. Injection rate control for fuel pumps. 2,158,326; May 16.
International Cigar Machinery Company. (See Wheeler, Henry H., assignor.)
International Cinema Inc. (See Doran, Albert B., assignor.)
Iron Fireman Manufacturing Company. (See Carter, H. C., and Marsh, assignors.)
Isham, Robert M., Okmulgee, and M. R. Ryan, assignors to Danciger Oil & Refineries, Inc., Tulsa, Okla. Treatment of gaseous hydrocarbons for the production of liquid aromatic hydrocarbons. 2,158,582; May 16.
Jackson, John G., assignor to Square D Company, Detroit, Mich. Electric switch. 2,158,369; May 16.
Jackson, William R., assignor of fifty per cent to A. L. Rikard, Greenville, S. C. Self-lubricating trolley shoe. 2,158,721; May 16.
Jacob, Frederick N., and M. J. Kirk, assignors to Johnson Laboratories, Inc., Chicago, Ill. Three-section condenser of the trimmer type. 2,158,127; May 16.
Jacobsen, William E., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 2,158,871; May 16.
Jameson, Arthur M. C. (See Hodgkins, A. F., and Jameson.)
Jandus, Herbert S., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Automobile lock. 2,158,455; May 16.
Jarvis, W. B., Company. (See Andrie, Michael B., assignor.)
Jaworowski, Joseph F., Cleveland, Ohio. Power transmission and speed reducer. 2,158,327; May 16.
Jeffay, Louis S., Chorlton-on-Medlock, Manchester, England. Stand or holder for a preserve dish or jar or like container for table use. 2,158,626; May 16.
Jensen, Charles, Evanston, Ill. Humidifier. 2,158,543; May 16.
Jensen, Lloyd B. (See Urbain, W. M., and Jensen.)
Jirousek, Joseph F., assignor to The Chandler and Price Company, Cleveland, Ohio. Printing press. 2,158,701; May 16.
Johnson, Carl G., assignor to J. P. Seebury Corporation, Chicago, Ill. Automatic phonograph. 2,158,328; May 16.
Johnson, Charles W., Norwood, Mass. Type binding means. 2,158,583; May 16.
Johnson, Chris D., et al. (See Robbins, Martin V., assignor.)
Johnson Laboratories, Inc. (See Jacob, F. N., and Kirk, assignors.)
Johnson Laboratories, Inc. (See Polydoroff, Wladimir J., assignor.)
Johnson Laboratories, Inc. (See Schaper, William A., assignor.)
Johnson, Tomlinson F., Atlanta, Ga. Fuse switch. 2,158,722; May 16.
Johnston, Herbert L. (See Meeker, D. A., and Johnston.)
Johnston, William S. (See Morse, E. H., Johnston, and Mack.)
Johnston, Harold G., Chicago, and J. C. Gates, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Accounting system. 2,158,872; May 16.
Jones, W. Bartlett, assignor, by mesne assignments, to Consolidated Carton Inc., Chicago, Ill. Divisible carton. 2,158,072; May 16.
Judsen, Nils A. (See Rose, M., and Judsen.)
Junghans, Helmut, Schramberg-Sulgen, Germany. Controlling pendulum clocks. 2,158,723; May 16.
Junkers & Co. G. m. b. H. (See Lorenz, W., and Steinhardt, assignors.)
Junkers, Therese. (See Griebsch, Franz, assignor.)
Kadri, Vassaf, assignor, by direct and mesne assignments, of thirty per cent to N. Rejeb, New York, and twenty-five per cent to M. Bagdadi, Brooklyn, N. Y. Abrading machine. 2,158,940; May 16.
Kalle & Co., Aktiengesellschaft. (See Schmidt, M. P., and Werner, assignors.)
Kaltwasser, Raymond A., Clayton, Mo. Power transmitting mechanism. 2,158,873; May 16.
Kanolt, Clarence W., Pelham Manor, N. Y. Stereoscopic photography. 2,158,660; May 16.
Kaplan, Charles, Lawrence, assignor to The Shirtcraft Company Incorporated, New York, N. Y. Adjustable fabric article. 2,158,456; May 16.
Katzberg, William J. See Kuestermeier, Max, assignor.)
Kaupp, Ethel R., Forest Hills, N. Y., assignor to Vogue Mfg. Co., Newark, N. J. Foundation garment. 2,158,506; May 16.
Kearney & Trecker Corporation. (See Armitage, Joseph B., assignor.)
Kégresse, Adolphe, Paris, France. Vehicle for mixed propulsion by wheels and endless tracks. 2,158,457; May 16.
Kehrer, Chase, Woodbridge, N. J. Carrier and fastener means. 2,158,661; May 16.
Keith, Wayland D., Wichita Falls, and R. W. Walker, Megargel, Tex.; said Walker assignor to said Keith. Amusement device. 2,158,073; May 16.
Kelco Company. (See Ament, Roger W., assignor.)
Kelco Company. (See Preble, Bennett, assignor.)
Keller, Rex E., Los Angeles, Calif. Clutch. 2,158,544; May 16.
Kellogg Switchboard & Supply Company. (See Rose, M., and Judsen, assignors.)
Kidde, Walter, & Company. (See Heigis, Henry E., assignor.)
Kieweg, Rudolph, Sacramento, Calif. Peach pitter. 2,158,545; May 16.
Kilb, Francis C., Larchmont, N. Y. Air circulating device. 2,158,074; May 16.
Kilgore Development Corporation. (See Kilgore, Lowell B., assignor.)
Kilgore, Lowell B., assignor to Kilgore Development Corporation, Washington, D. C. Stabilized composition. 2,158,724; May 16.
King, George D., and G. L. Phelps, assignors to United States Gypsum Company, Chicago, Ill. Building block. 2,158,982; May 16.
Kingsbury, Harry T., Keene, N. H. Registering bank. 2,158,459; May 16.
Kingsley, Donald G. (See Oftedal, P. R., and Kingsley.)
Kinzbach, Frank, Houston, Tex. Whip stock. 2,158,329; May 16.
Kipper, Joseph, Seattle, Wash. Meat mold. 2,158,702; May 16.
Kirk, Martin J. (See Jacob, F. N., and Kirk.)
Kirk, Roy C., assignor to The Dow Chemical Company, Midland, Mich. Producing magnesium. 2,158,786; May 16.
Kite, Floyd E., Los Angeles, Calif. Patch vulcanizing apparatus. 2,158,703; May 16.
Knapp, Andrew S., assignor to Knapp-Monarch Company, St. Louis, Mo. Corn popper. 2,158,460; May 16.
Knapp-Monarch Company. (See Knapp, Andrew S., assignor.)
Knobel, Max, Arlington, assignor to Block-Jones Photo Co., Inc., Dorchester, Mass. Photo-printing apparatus. 2,158,903; May 16.
Knoll, Harry E., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Lock. 2,158,983; May 16.
Knorpp Candy Company. (See Knorpp, Maxwell, assignor.)
Knorpp, Maxwell, assignor to Knorpp Candy Company, Brooklyn, N. Y. Package. 2,158,756; May 16.
Knowles, Edwin C., Beacon, assignor to The Texas Company, New York, N. Y. Dewaxing with evaporative cooling. 2,158,370; May 16.
Knox, William J., Jr. (See Bowman, R. G., and Knox.)
Koch, William H., St. Paul, Minn. Fence tool. 2,158,128; May 16.

Koch, Winfield R., Merchantville, N. J., assignor to Radio Corporation of America. Impulse measuring circuit. 2,158,285; May 16.
Kock, Birger. (See Hagelin, B., and Kock.)
Koehring, Roland P., and J. M. Hildabolt, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Making bearings. 2,158,461; May 16.
Koenig, Harry J., assignor to Armour and Company, Chicago, Ill. Veal carcasses. 2,158,462; May 16.
Kohl, Everard F., assignor to Selco Products, Inc., Cleveland, Ohio. Electric motor. 2,158,823; May 16.
Köhler, Wilhelm, assignor to Goebel Aktiengesellschaft, Darmstadt, Germany. Web cutting and rewinding machine. 2,158,286; May 16.
Kolb, Otto K., Chiswick, London, assignor to British Acoustic Films Ltd., London, England. Photographic sound recording. 2,158,874; May 16.
König, Albert, assignor to the firm of Carl Zeiss, Jena, Germany. Telescope objective. 2,158,507; May 16.
König, Walter, Dresden, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Sensitizing silver halide emulsion. 2,158,287; May 16.
Koppers Company. (See van der Hoeven, Bernard J. C., assignor.)
Köster, Paul E., Berlin-Siemensstadt, assignor to Siemens Apparate und Maschinen G. m. b. H., Berlin, Germany. Course finding method and apparatus. 2,158,584; May 16.
Kotowski, Paul, and K. Dannehl, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Secret telephony. 2,158,662; May 16.
Kraft-Phenix Cheese Corporation. (See Rieck, A. W., Chapman, and Wambach, assignors.)
Kraus, Edwin C. (See Douthitt, Frank W., assignor.)
Kremp, Franz. (See Beck, C., and Kremp.)
Kreuzer, Henry, et al. (See Bamberger, Alexander, assignor.)
Kritchevsky, Wolf, assignor to Minol, Inc., Chicago, Ill. Treatment of hides, skins, and leather. 2,158,627; May 16.
Kritzmacher, Ernest. (See Hanson, N. D., and Kritzmacher.)
Krumholtz, George R. (See Haley, Timothy, assignor.)
Kuestermeier, Max, Chicago, Ill., assignor to W. J. Katzberg. Coupling. 2,158,757; May 16.
Kuhlman, Carl H., assignor to The American Temperature Indicating Company, Toledo, Ohio. Temperature regulation. 2,158,628; May 16.
Kuhn, Clarence W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Thermally controlled switch. 2,158,288; May 16.
Kuhn, Clarence W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controlling device. 2,158,824; May 16.
Kuhner, Max H., assignor to Riley Stoker Corporation, Worcester, Mass. Steam generator. 2,158,508; May 16.
Kuhner, Max H., assignor to Riley Stoker Corporation, Worcester, Mass. Steam generating and superheating apparatus. 2,158,509; May 16.
Kyriakides, Harry B., Iowa City, Iowa. Indexing mechanism. 2,158,188; May 16.
Lagaard, Alexander S. T., assignor to Dough-King, Inc., Minneapolis, Minn. Dough cutter. 2,158,463; May 16.
Lamb, Anthony H., Elizabeth, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Controller. 2,158,464; May 16.
Lamm, Uno, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Suppressing disturbances in ionic valves by grid control. 2,158,289; May 16.
Land, Edwin H., Boston, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Light polarizer. 2,158,130; May 16.
Land, Edwin H., Wellesley Farms, Mass., assignor, by mesne asignments, to Polaroid Corporation, Dover, Del. Display device employing polarized light. 2,158,129; May 16.
Landis, Harve, Walters, Okla. Coupling pin. 2,158,941; May 16.
Lang, Bernard J. and M. W., Detroit, Mich. Adjustable bier. 2,158,546; May 16.
Lang, Mack W. (See Lang, Bernard J. and M. W.)
Lange, Heinrich, and O. Horn, Frankfort-on-the-Main-Hochst, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing methyl-vinyl-ketone. 2,158,290; May 16.
Lange, Max E., Cleveland Heights, and J. R. Longstreet, Bedford, assignors to The Warner & Swasey Company, Cleveland, Ohio. Turning tool for lathes or the like. 2,158,798; May 16.
Lank, Alvin B., Washington, D. C. Post construction. 2,158,291; May 16.
Lansing, Charles B., Gates Mills, Ohio. Cutting machine for stove or other material. 2,158,629; May 16.
Larson, Louis J., assignor to A. O. Smith Corporation, Milwaukee, Wis. Welding. 2,158,799; May 16.
Larson, Merwin J., Portland, Oreg. Actuator for glare shields. 2,158,330; May 16.
Lauer, Karl, Gelsenkirchen, assignor to Deutsche Eisenwerke Aktiengesellschaft, Mulheim-on-the-Ruhr, Germany. Operating cupola furnaces. 2,158,510; May 16.
Lauer, Karl, Gelsenkirchen, assignor to Deutsche Eisenwerke Aktiengesellschaft, Mulheim-on-the-Ruhr, Germany. Production of cast iron in cupola furnaces. 2,158,511; May 16.
Laurent, Milton P., Houston, Tex. Swivel pipe coupling. 2,158,131; May 16.
Lawner, Nicholas. (See Duberstein, S., and Lawner.)
Lawson, Albert R., assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada. Manifolding book. 2,158,292; May 16.
Lawson, Robert H., and W. Armitage, Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Knitted fabric, method, and machine. 2,158,189; May 16.
Lawson, Robert H., and W. L. Smith, Jr., Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Yarn furnishing device. 2,158,547; May 16.
Lawson, Robert R., C. L. Bennett, and F. D. Urie, assignors to Elgin National Watch Company, Elgin, Ill. Apparatus and method for testing hairsprings and like devices. 2,158,725; May 16.
Layte, Ralph R., Short Hills, and M. M. McCoy, Whippany, assignors to Motor Improvements, Inc., Newark, N. J. Filter. 2,158,512; May 16.
Lear, Earl B., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Tool retainer. 2,158,190; May 16.
Leeds, Laurance M., Scotia, N. Y., assignor to General Electric Company. Antenna system. 2,158,875; May 16.
Lees, Arthur W. (See Sucharski, C. J., and Lees.)
Lefler Corporation. (See Fisher, G., Tandler, and Carlisle, assignors.)
Legg, Victor E., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnet body and making the same. 2,158,132; May 16.
Lehane, Timothy J. (See Parks, P. B., and Lehane.)
Leiss, Franz. (See Berg, H., Heim, and Leiss.)
Leland, Ragnvald G., New York, N. Y. Hair-waving apparatus. 2,158,800; May 16.
Leman, Henry W. (See Pallister, T. W., and Leman.)
Lemire, Edwin A., Providence, R. I., and E. Steiner, New York, N. Y. Compact. 2,158,548; May 16.
Lemp, Hermann, Glen Rock, N. J. Controlling device. 2,158,133; May 16.
Lentz, Hugo, Berlin, Germany. Poppet valve control for steam locomotives. 2,158,331; May 16.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stopping mechanism for sewing machines. 2,158,134; May 16.
Le Vesconte, Harold J. (See Hacklander, H., and Le Vesconte.)
Lewis Invisible Stitch Machine Company. (See Moulton, H. C., and Mueller, assignors.)
Lewis, John O., Wesleyville, Pa., assignor to General Electric Company. Lubricating device. 2,158,876; May 16.
Leyst-Kuchenmeister, Carl, Schlachtensee, near Berlin, Germany. Manufacturing soap. 2,158,663; May 16.
Lierg, Friedrich, assignor of one-half to O. Czeija, Vienna, Germany. Photographic emulsion. 2,158,825; May 16.
Ligon, Harry W., Atlanta, Ga. Garment hanger. 2,158,465; May 16.
Ligon, Ira W., Richmond, Calif. Measuring cup. 2,158,704; May 16.
Limpert, Alexander S. (See Limpert, Sylvester A and A. S.)
Limpert, Sylvester A. and A. S., Bay Shore, N. Y. Evaporator unit for refrigeration purposes. 2,158,877; May 16.
Lindsay, William C., Harriman, Tenn., assignor to Lock-Leg Table Company. Table. 2,158,726; May 16.
Lindstaedt, Frank F., Oakland, Calif. Parasiticidal control. 2,158,371; May 16.
Line Material Company. (See Schultz, William O., assignor.)
Lingal, Harry J., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Pressure relief means for oil circuit breaker tanks. 2,158,293; May 16.
Link, Maximilian P., Los Angeles, Calif. Container. 2,158,549; May 16.
Linnemans, Adrianus. (See Bol, C., and Linnemans.)
Lintern, Alfred R., assignor to Evans Products Company, Detroit, Mich. Vehicle ventilating apparatus. 2,158,332; May 16.
Lintern, Alfred R., assignor to Evans Products Company, Detroit, Mich. Apparatus for heating motor vehicles. 2,158,758; May 16.
Lipe, W. C., Inc. (See Spase, Charles B., assignor.)
Little, Warren E., Youngstown, Ohio. Gauging device. 2,158,466; May 16.
Livak, John E. (See Britton, E. C., Smith, Livak, and Sunderland.)
Lloyd, Stanley M., West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing apparatus. 2,158,630; May 16.
Lloyd, Thorne E., Netcong, N. J., assignor to Dwight & Lloyd Sintering Company, Inc., New York, N. Y. Apparatus for making nodules or pellets. 2,158,513; May 16.
Lock-Leg Table Company. (See Lindsay, William C., assignor.)

Loftfield, Sigurd, Euclid, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Joining tubular parts. 2,158,075; May 16.
Long, John E., Edgewater, assignor of one-third to W. H. Robinson, Sr., and one-third to P. E. Haskin, Arvada, Colo. Air conditioner. 2,158,294; May 16.
Long, Spencer W., Inglewood, Calif., assignor, by mesne assignments, to The National Supply Company, Pittsburgh, Pa. Spring hook. 2,158,373; May 16.
Long, Spencer W., Redondo Beach, Calif., assignor, by mesne assignments, to The National Supply Company, Pittsburgh, Pa. Spring hook. 2,158,372; May 16.
Longstreet, James R. (See Lange, M. E., and Longstreet.)
Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Electric control system. 2,158,878; May 16.
Lorentzen, Hans K., Montclair, N. J. Head-bar organization for Venetian blinds. 2,158,826; May 16.
Lorenz, Werner, Frankfort-on-the-Oder, and C. Steinhardt., assignors to Junkers & Co. G. m. b. H., Dessau, Germany. Gas valve and controlling arrangement therefor. 2,158,787; May 16.
Lott, William A., East Orange, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Acrylates. 2,158,239; May 16.
Loughlin, William D., Mountain Lakes, N. J., assignor, by mesne assignments, to Ferrocart Corporation of America, New York, N. Y. High frequency inductance coil. 2,158,613; May 16.
Ludwig, Willy, Frankfort-on-the-Main-Hochst, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Oestrus-promoting substance from the anterior lobes of the hypophysis and preparing it. 2,158,788; May 16.
Lufkin Foundry & Machine Company. (See Trout, Walter C., assignor.)
Lumsden, Colin H. (See Haddock, N. H., and Lumsden.)
Lundbye, Axel E., assignor to The Foote Company, Inc., Nunda, N. Y. Automatic control for concrete pavers. 2,158,942; May 16.
Lupo, Joseph, Jr., Bronx, N. Y. Lined tumbling barrel. 2,158,076; May 16.
L'Wolfe, Robert, Seattle, Wash. Device for sharpening lawn mowers. 2,158,191; May 16.
Lytle, Arthur R., and W. Morton, Niagara Falls, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Welding process and apparatus. 2,158,664; May 16.
Lytle, Arthur R., and T. H. Vaughn, Niagara Falls, N. Y., assignors to Oxweld Acetylene Company. Welding rod. 2,158,984; May 16.
Mabon, Carl R., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y. Typewriting machine. 2,158,585; May 16.
MacAndrews and Forbes Company. (See Gideon, Roy M., assignor.)
MacFarlane, Raymond S., South Chicago, Ill. Electric control system. 2,158,135; May 16.
MacFarlane, Raymond S., South Chicago, Ill. Electric power system. 2,158,136; May 16.
Mack, Edward L. (See Morse, E. H., Johnston, and Mack.)
Madland, Gabriel, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Locking, opening, and closing device. 2,158,336; May 16.
Madsen, Sern, assignor to Curtis Companies Incorporated, Clinton, Iowa. Table top construction. 2,158,467; May 16.
Magnaflux Corporation. (See de Forest, A. V., and Doane, assignors.)
Maloney, William T., Natural Bridge, N. Y., assignor to Georgia Kaolin Company. Clay product and preparing same. 2,158,987; May 16.
Maltby, Edward H., White Bear Lake, Minn., assignor to Standard Conveyor Company. Conveyor switch. 2,158,482; May 16.
Mamula, Samuel L., Cleveland, Ohio. Blast furnace construction. 2,158,943; May 16.
Mandelbaum, Malvin R. (See Atwell, H. V., and Mandelbaum.)
Mankoff, Henry J., Wichita, Kans. Compost grinder. 2,158,240; May 16.
Mann, Charles S., Vancouver, British Columbia, Canada. Dispensing attachment for collapsible tubes. 2,158,333; May 16.
Manning, Charles R., Erie, Pa., assignor to General Electric Company. Lubricating device. 2,158,879; May 16.
Mantz, Aloysius F., Los Angeles, Calif. Combined sash balance and weather strip. 2,158,514; May 16.
Marsh, Thomas A. (See Carter, H. C., and Marsh.)
Marsico, Sisto E., Aspinwall, Pa. Insecticide and making the same. 2,158,241; May 16.
Martin, Glenn L., Company, The. (See Watter, Michael, assignor.)
Martindell, Frank, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and machine for winding coils. 2,158,827; May 16.
Master Machine Mfg. Co. (See Oskow, Louis, assignor.)
Mathews Conveyer Company. (See Hahn, Arthur M., assignor.)
Mathews, Paul, Rugby, England, assignor to General Electric Company. Parallel circuit control. 2,158,880; May 16.
Mathis, John A., and R. W. Milan, Pinckneyville, Ill. Method and apparatus for evaporating liquid oxygen. 2,158,458; May 16.
Matteson, Nelson F., Washington, D. C., G. L. Bub, and R. Q. Moore, St. Louis, Mo. Framing light shutter lifter. 2,158,077; May 16.
Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Staple for blind stitching. 2,158,242; May 16.
McAllister, Neil R., et al. (See Robbins, Martin V., assignor.)
McCabe, Ira E., Chicago, Ill. Timed circuit breaker mechanism. 2,158,515; May 16.
McCann, Judson J., Lake Charles, La. Casing cutter. 2,158,243; May 16.
McCleary, Byron J., Chicago, Ill. Watch rating recorder. 2,158,468; May 16.
McConnell, Burke M., Greensboro, N. C. Speed ratio indicator. 2,158,137; May 16.
McCormack, Alex A. (See Hull, H. B., and McCormack.)
McCormack, Alex A. (See Newill, E. B., and McCormack.)
McCormick, Francis H., Glen Ellyn, assignor to Edison General Electric Appliance Company, Chicago, Ill. Range. 2,158,881; May 16.
McCoy, Marion M. (See Layte, R. R., and McCoy.)
McGavack, John, Leonia, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Making rubber derivatives. 2,158,138; May 16.
McGill Manufacturing Company. (See Popp, Rudolf, assignor.)
McIntire, Charles V., Short Hills, N. J., assignor to Semet-Solvay Engineering Corporation, New York, N. Y. Regenerator of a coke oven battery. 2,158,139; May 16.
McIntosh, Frank H., Mill Valley, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Protective device for electrical apparatus. 2,158,516; May 16.
McKinnon, Allen G. (See Roberts, E. F., and McKinnon.)
McLelland, Maurice, and C. P. de Jonge, Oakland, Calif.; said de Jonge assignor of one-fourth to said McClelland. Clock. 2,158,586; May 16.
McManus, Charles E., Spring Lake, N. J., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Cork composition. 2,158,469; May 16.
McMillan, Alfred, New York, N. Y. Dust mop cleaner. 2,158,470; May 16.
McMurtry, Edward A., Chicago, Ill. Automotive ignition booster system with automatic starting control. 2,158,634; May 16.
McParlin, Daniel V., Passaic, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Apparatus for alloying metals. 2,158,517; May 16.
Meaurite Products Company. (See Theodore, Manuel, assignor.)
Meeker, David A., and H. L. Johnston, assignors to The Hobart Manufacturing Company, Troy, Ohio. Washing machine. 2,158,904; May 16.
Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,158,882; May 16.
Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion containing supersensitized-4'-carbocyanines. 2,158,883; May 16.
Meier, Wilber L., North Arlington, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electron discharge device. 2,158,564; May 16.
Mendenhall, Earl, Los Angeles, and J. B. Van Horn, Alhambra, assignors to Byron Jackson Co., Huntington Parks, Calif. Control system for submersible motors and the like. 2,158,471; May 16.
Mendenhall, Earl, Los Angeles, and J. B. Van Horn, Alhambra, assignors to Byron Jackson Co., Huntington Park, Calif. Control system for submersible motor and the like. 2,158,472; May 16.
Merck & Co. (See Stevens, Joseph R., assignor.)
Merck & Co. Inc. (See Zellner, C. N., and Stevens, assignors.)
Merkel, Karl, Brooklyn, N. Y. Yarn rewinding set. 2,158,828; May 16.
Merrill, David R., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Soluble oils. 2,158,374; May 16.
Merritt, Robert J., Los Angeles, Calif. Cooking range construction. 2,158,550; May 16.
Messing, Joseph A. (See Frank, W. H., Fisher, and Messing.)
Messing, Joseph A. (See Frank, W. H., Messing, and Hollingsworth.)
Metal Mouldings Corporation. (See Chamberlin, Clarence P., assignor.)
Metal Mouldings Corporation. (See Chamberlin, C. P., and Toner, assignors.)
Metals Recovery Co. (See Buchanan, George W., assignor.)
Mettler, Carl, assignor to the firm of J. R. Geigy S. A., Basel, Switzerland. Acid anthraquinone dyestuffs and their manufacture. 2,158,473; May 16.
Mettler, Hans W., Geneva, Switzerland. Roller casing for textile stretching apparatus. 2,158,631; May 16.
Mettler, Hans W., Geneva, Switzerland. Textile stretching apparatus. 2,158,632; May 16.

Meuly, Walter C., New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of aromatic aldehydes. 2,158,518; May 16.
Meuly, Walter C., New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of aromatic aldehydes. 2,158,519; May 16.
Meyer, Milton, Brooklyn, N. Y. Visor for collapsible caps. 2,158,861; May 16.
Meyer, Oskar, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of hard carbides. 2,158,520; May 16.
Meyer, Vernon H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Clutch mechanism. 2,158,192; May 16.
Michigan Wire Goods Company. (See Smith, Benjamin H., assignor.)
Milan, Roland W. (See Mathis, J. A., and Milan.)
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller, Joseph E., Oak Park, Ill. Pipe joint packing. 2,158,829; May 16.
Miller, Stuart P., Scarsdale, assignor to The Barrett Company, New York, N. Y. Flexible interlocking shingle. 2,158,140; May 16.
Miller, Stuart P., Scarsdale, assignor to The Barrett Company, New York, N. Y. Absorbent article-saturating apparatus. 2,158,334; May 16.
Miller, Thomas G., McDonald, Pa. Fastener element and producing it. 2,158,078; May 16.
Miller, Thomas G., McDonald, Pa. Slide fastener and making it. 2,158,079; May 16.
Miller, Vernon L., Bethel, Kans. Paste tube cap. 2,158,375; May 16.
Milmoe, Michael J., Glen Ellyn, assignor to F. B. Redington Co., Chicago, Ill. Feeding mechanism. 2,158,335; May 16.
Mine Safety Appliances Company. (See Dym, Joseph B., assignor.)
Minneapolis-Honeywell Regulator Company. (See Haines, John E., assignor.)
Minol, Inc. (See Kritchevsky, Wolf, assignor.)
Mistretta, Anthony, C. A. Blomberg, and M. Willene, Rockford, assignors to Borg-Warner Corporation, Chicago, Ill. Clutch plate. 2,158,244; May 16.
Misuraca, William N., Merrick, N. Y., assignor to General Printing Ink Corporation. Inking arrangement for rotary printing presses. 2,158,474; May 16.
Mitchell, John R., Dallas, Tex., assignor, by mesne assignments, to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Automatic phonograph. 2,158,295; May 16.
Modern Equipment Corporation. (See Carter, John F., assignor.)
Moffat, Albert S., Watertown, assignor of one-half to H. C. Wheeler, Boston, Mass. Incandescent gas sign and making same. 2,158,968; May 16.
Moller, Otto, West New York, N. J. Window cleaner. 2,158,141; May 16.
Monomelt Company. (See Olander, Leonard G., assignor.)
Monowatt Electric Corporation. (See Benander, George B., assignor.)
Montgomery, William J., Hamilton, and C. F. Boyers, Hillsboro, assignors to The Champion Paper and Fibre Company, Hamilton, Ohio. Apparatus for and method of screening. 2,158,080; May 16.
Montine, Joseph F., Brooklyn, N. Y. Recording and illustrating dance steps. 2,158,475; May 16.
Moore, Claude A., Cheyenne, Wyo. Combined ventilator, heater, and windshield defroster for automobile bodies. 2,158,245; May 16.
Moore, Roger Q. (See Matteson, N. F., Bub, and Moore.)
Morlock, Harry A., Buffalo, N. Y. Furnace roof construction. 2,158,750; May 16.
Morrell, Jacque C., Oak Park, Ill. Building construction. 2,158,081; May 16.
Morrell, Jacque C., Oak Park, Ill. Building construction. 2,158,082; May 16.
Morris, Warren A. (See Rowe, W. W., and Morris.)
Morrison, John R., Hampton, Va., and R. E. Babcock, Baltimore, Md.; said Babcock assignor to The Baltimore Salesbook Company. Separating handysets and piles and apparatus therefor. 2,158,727; May 16.
Morse, Earle H., Nutley, N. J., W. S. Johnston, New York, and E. L. Mack, Douglaston, assignors to Reynolds Research Corporation, New York, N. Y. Rubber hydrohalides and preparing the same. 2,158,760; May 16.
Morse, George H., Arlington, Va. Slide rule. 2,158,476; May 16.
Morse, Richard S., assignor to Eastman Kodak Company, Rochester, N. Y. Sound reproduction. 2,158,193; May 16.
Morton, William. (See Lytle, A. R., and Morton.)
Moser, Wilhelm, and H. E. Paul, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna system. 2,158,376; May 16.
Motor Improvements, Inc. (See Layte, R. R., and McCoy, assignors.)
Motor Wheel Corporation. (See Horn, Harry J., assignor.)
Motor Wheel Corporation. (See Horn, H. J., and Stough, assignors.)
Moulton, Harley C., Maplewood, and C. W. Mueller, assignors to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blind stitch sewing machine. 2,158,246; May 16.
Mueller, Adolf G., Stratford, Conn., assignor to General Electric Company. Electric lamp. 2,158,884; May 16.
Mueller, Charles W. (See Moulton, H. C., and Mueller.)
Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating machine. 2,158,142; May 16.
Murray, Alexander, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Photographic material. 2,158,194; May 16.
Murray Corporation of America, The. (See Wolfe, Harold F., assignor.)
Murray-Ohio Manufacturing Company, The. (See Loftfield, Sigurd, assignor.)
Mutti, Oscar E., Plymouth, Ind. Illuminated sign. 2,158,195; May 16.
N. V. Philips' Gloeilampenfabrieken. (See Bol, C., and Linnemans, assignors.)
Nahigyan, Kevork K., assignor to Riley Stoker Corporation, Worcester, Mass. Pulverized fuel burner. 2,158,521; May 16.
Nahigyan, Kevork K., assignor to Riley Stoker Corporation, Worcester, Mass. Fuel burner. 2,158,522; May 16.
National Battery Company. (See Breisch, Edgar W., assignor.)
National Battery Company. (See Reetz, Carl G., assignor.)
National Cash Register Company, The. (See Ranglack, Franz, assignor.)
National Standard Company. (See Harrah, Clayton C., assignor.)
National Supply Company, The. (See Long, Spencer W., assignor.)
Naylor Patents Corporation. (See Sale, William H., assignor.)
Neresheimer, Heinrich, and A. Vilsmeier, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Condensation products of the perylene series. 2,158,296; May 16.
Nemetz, Gustav, assignor to firm Alex. Friedmann, Vienna, Austria. Axle bearing for railway vehicles. 2,158,905; May 16.
Netter, Frank H., New York, N. Y. Demonstration apparatus. 2,158,906; May 16.
Nevius, Condict M., Hornell, N. Y. Coffee brewing device. 2,158,587; May 16.
New England Butt Company. (See Aldrich, John G., assignor.)
Newill, Edward B., and A. A. McCormack, Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation. Seal for refrigerating apparatus. 2,158,297; May 16.
New Jersey Machine Corporation. (See Fleischer, Paul W., assignor.)
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newport, William Y., Campbell, Ohio. Bench back rest. 2,158,247; May 16.
Newsom, John B., Palo Alto, Calif. Wire sawing. 2,158,830; May 16.
Nicholson, William H. (See Renfro, Thomas L., assignor.)
Normandi, Anthony L., San Francisco, and G. B. Traversi, Petaluma, Calif. Displaying figures and the like on transparent bodies. 2,158,633; May 16.
Northern Indiana Brass Company. (See Arbogast, Alfred C., assignor.)
Nunnans, Johannes J., The Hague, Netherlands. Electrical amplifying system and operation. 2,158,248; May 16.
Nutter, Charles C., West Los Angeles, Calif. Apparatus for separating precious metals from black sand. 2,158,551; May 16.
Obear-Nester Glass Company. (See Stuckey, Samuel G., assignor.)
O'Brien, M. J., Limited. (See Houghton, Edward M., assignor.)
Oesterle, Frank D., West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Safety arrangement. 2,158,635; May 16.
Oftedal, Philip R., and D. G. Kingsley, Chicago, Ill. Weatherstripping. 2,158,298; May 16.
O'Hare, Anthony P., West New Brighton, N. Y. Glider. 2,158,377; May 16.
Oil Well Supply Company. (See Ravanelli, Bennett H., assignor.)
Okonite-Callendar Cable Company. (See McParlin, Daniel V., assignor.)
Olander, Leonard G., assignor to The Monomelt Company, Incorporated, Minneapolis, Minn. Plate finishing machine. 2,158,249; May 16.
Oliver, Herbert F., West Springfield, assignor to F. W. Sickles Company, Springfield, Mass. Coil mounting. 2,158,969; May 16.
Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Explosionproof switch panel. 2,158,477; May 16.
Ollinger, William, Long Island, N. Y. Hat dusting appliance. 2,158,143; May 16.
Olsen, Clair A. (See Sybenga, Richard, assignor.)
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Lock washer. 2,158,378; May 16.
Olson, Phillip W., Grand Rapids, Mich., assignor to Automatic Instrument Company. Key-cutting machine. 2,158,761; May 16.

O'Neill, George D., Beverly, assignor to Hygrade Sylvania Corporation, Salem, Mass. Electron discharge device. 2,158,665; May 16.
O'Neill, Robert F. (See Brailsford, J. D., and O'Neill.)
Oppenheim, Theodore H., Coldwater, Ohio. Rake and tedder mechanism. 2,158,209; May 16.
Opticolor Aktiengesellschaft. (See Petermann, Walter, assignor.)
Oskow, Louis, assignor to Master Machine Mfg. Co., Inc., New York, N. Y. Machine for cutting, folding, and pressing labels. 2,158,144; May 16.
Oster, John, assignor to John Oster Manufacturing Company, Racine, Wis. Motor. 2,158,145; May 16.
Oster, John, Manufacturing Company. (See Oster, John, assignor.)
Oswego Falls Corporation. (See Wilcox, Isaac L., assignor.)
Ottinger, Lawrence, assignor to United States Plywood Corporation, New York, N. Y. Producing veneered products. 2,158,907; May 16.
Ottinger, Lawrence, assignor to United States Plywood Corporation, New York, N. Y. Veneered product. 2,158,908; May 16.
Otto, Carl, Essen, Germany, assignor to Otto-Wilputte Ovenbouw Mi J. (Otto-Wilputte Construction Company) N. V., The Hague, Netherlands. Chamber oven. 2,158,666; May 16.
Otto-Wilputte Ovenbouw Maatschappij N. V. (See Beimann, Wilhelm, assignor.)
Otto-Wilputte Ovenbauw Mi J. (Otto-Wilputte Construction Company), N. V. (See Otto, Carl, assignor.)
Outboard, Marine & Manufacturing Company. (See Ames, A. D., and Furry, assignors.)
Outboard, Marine & Manufacturing Company. (See Furry, John F., assignor.)
Overholt, J. D. (See Browne, Floyd A., assignor.)
Oxweld Acetylene Company. (See Burgess, Charles O., assignor.)
Oxweld Acetylene Company. (See Lytle, A. R., and Vaughn, assignors.)
Packard Motor Car Company. (See Griswold, Walter R., assignor.)
Page, George A., Jr., Ferguson, Mo., assignor, by mesne assignments, to Curtiss-Wright Corporation. Retractable landing gear. 2,158,300; May 16.
Page, Paul E., Fort Kent, Maine. Tobacco pipe. 2,158,301; May 16.
Pallister, Thomas W., and H. W. Leman; said Pallister assignor to Advance Appliance Co., Peoria, Ill. Clutch. 2,158,677; May 16.
Palmer, Harry L., Scotia, N. Y., assignor to General Electric Company. Electric valve circuit. 2,158,885; May 16.
Paper Service Company, The. (See Rowe, W. W., and Morris, assignors.)
Parker, Arthur L., Cleveland, Ohio. Pressure relief valve. 2,158,478; May 16.
Parks, Paul B., oak Park, and T. J. Lehane, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Thermostat. 2,158,146; May 16.
Patzer, William. (See Tratsch, W. A., and Patzer.)
Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin and slug separating device. 2,158,909; May 16.
Paul, Hans E. (See Moser, W., and Paul.)
Peel, Frederick W., London, England, assignor to Rubatex Products, Inc., New York, N. Y. Manufacturing expanded rubber. 2,158,083; May 16.
Peet, Gerald D., Montclair, assignor to Wallace & Tiernan Company, Inc., Belleville, N. J. Gas supply apparatus. 2,158,985; May 16.
Peirce, Ralph S., Hinsdale, Ill. Anchoring for concrete or the like. 2,158,302; May 16.
Pellar, Sidney H., Chicago, Ill. Pie making machine. 2,158,910; May 16.
Pellar, Sidney H., Chicago, Ill. Pie plate. 2,158,911; May 16.
Pelton, George E., Middleburg, Va. Ink fountain typing machine. 2,158,944; May 16.
Pender, Lorenzo D., assignor to R. M. Pender, Raleigh, N. C. Distributor for fertilizer, lime, or the like. 2,158,479; May 16.
Pender, Ruth M. (See Pender, Lorenzo D., assignor.)
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Penn, Frederic H., Dallas, Tex. Method and composition for improving milling products. 2,158,588; May 16.
Penn, Frederic H., Dallas, Tex. Method and composition for improving milling products. 2,158,589; May 16.
Pepin, Charles H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in pressing soles on shoe bottoms. 2,158,196; May 16.
Peshek, Joseph, and G. H. Wheary, assignors to Wheary Trunk Company, Racine, Wis. Hand luggage. 2,158,986; May 16.
Petermann, Walter, Berlin-Siemensstadt, Germany, assignor to Opticolor Aktiengesellschaft, Glarus, Switzerland. Cooling means for mirrors used with arc lamps. 2,158,886; May 16.
Peters, Claude H., White Bear Lake, Minn. Air conditioning system. 2,158,250; May 16.
Peters, Frederick W., Cleveland, Ohio. Tool handle. 2,158,728; May 16.
Peterson, Carl D., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Solenoid operating shifting mechanism. 2,158,480; May 16.
Peterson, Carl D., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Power take-off for motor vehicles. 2,158,483; May 16.
Peterson, Edward S., Elmwood Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,158,945; May 16.
Peterson, Glen C., Mokena, Ill. Straw bundler. 2,158,729; May 16.
Petterson, Charles J., Pasco, Wash. Ventilated seat for vehicles. 2,158,801; May 16.
Peyton, James A., San Antonio, Tex. Collar support for shirts. 2,158,379; May 16.
Pfleiderer, Georg. (See Riehl, H-J., and Pfleiderer.)
Pfleiderer, Georg, Ludwingshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of alkali metal peroxides. 2,158,523; May 16.
Phelan, Alma E., Providence District, Va. Curtain. 2,158,762; May 16.
Phelps, George L. (See King, G. D., and Phelps.)
Phelps, Roscoe G., Cleveland, Ohio, assignor to General Electric Compaany. Socket. 2,158,862; May 16.
Pheysey, Richard G., Ontario, Calif. Orchard heater. 2,158,636; May 16.
Phosphate Recovery Corporation. (See Crago, Arthur, assignor.)
Pierce, John B., Foundation. (See Groeniger, William C., assignor.)
Pierrel, Anthony S., Washington, La. Evaporator 2,158,946; May 16.
Pikul, Joseph H., Boston, Mass. Sewing machine. 2,158,197; May 16.
Pink, Clarence E., Cambridge, Md. Spiral fabric. 2,158,590; May 16.
Piperi, Anthony J., Galveston, Tex. Beater. 2,158,912; May 16.
Plante, Arthur N., Winsted, Conn. Nest structure. 2,158,831; May 16.
Platt, Herbert. (See Dreyfus, C., and Platt.)
Platt, Herbert, Cumberland, Md., assignor to Celanese Corporation of America. Producing textile fabrics. 2,158,147; May 16.
Pleasant, Herman E. (See Hills, R. B., and Pleasant.)
Podbielniak, Walter J., assignor to B. B. Schneider, Chicago, Ill. Mechanical rubbing-type seal. 2,158,832; May 16.
Polaroid Corporation. (See Land, Edwin H., assignor.)
Polydoroff, Wladimir J., assignor to Johnson Laboratories, Inc., Chicago, Ill. Inductive tuning system. 2,158,252; May 16.
Polydoroff, Wladimir J., Wilmette, assignor to Johnson Laboratories, Inc., Chicago, Ill. High-frequency radio amplifying circuits. 2,158,251; May 16.
Poole, Jesse V., Abington, and C. E. Clarke, Everett, assignors to Puritan Manufacturing Company, Boston, Mass. Sewing machine stop motion. 2,158,484; May 16.
Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Electric switch. 2,158,084; May 16.
Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Switch. 2,158,678; May 16.
Porsche, Dr. ing. h. c. F., K.-G. (See Rabe, Karl, assignor.)
Porter, Sarah P. C., Salt Lake City, Utah. Advertising display case. 2,158,085; May 16.
Posture Research Corporation. (See Wood, Glenn D., assignor.)
Potdevin, Adolph, Garden City, assignor to Potdevin Machine Company, Brooklyn, N. Y. Slip-sheet apparatus. 2,158,552; May 16.
Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
Pott, Robert H., Evansville, Ind. Impact tool. 2,158,303; May 16.
Potter, William W. (See Curtis, Myron S., assignor.)
Preble, Bennett, San Diego, assignor to Kelco Company, Los Angeles, Calif. Alginate salts and making same. 2,158,485; May 16.
Preble, Bennett, National City, assignor to Kelco Company, Los Angeles, Calif. Amine alginate product and process. 2,158,486; May 16.
Preble, Bennett, National City, assignor to Kelco Company, Los Angeles, Calif. Triethanolamine alginate product and process. 2,158,487; May 16.
Prescott, Harold R., assignor to Continental Oil Company, Ponca City, Okla. Method and apparatus for making geological explorations. 2,158,198; May 16.
Pribil, Alexis R., Saginaw, Mich. Independently sprung suspension wheel unit. 2,158,488; May 16.
Priess, John F., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Carburetor air intake system. 2,158,380; May 16.
Process Management Company, Inc. (See Atwell, H. V., and Mandelbaum, assignors.)
Procter & Gamble Company, The. (See Harris, Benjamin R., assignor.)
Prolamine Products Incorporated. (See Hansen, D. W., and Shildneck, assignors.)
Pugsley, Edwin, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company. Firearm. 2,158,148; May 16.

Pugsley, Edwin, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company. Firearm. 2,158,149; May 16.
Pullman-Standard Car Manufacturing Company. (See Blomberg, Martin P., assignor.)
Purdum, Oscar W., Atchison, Kans. Trot line jig. 2,158,947; May 16.
Puritan Manufacturing Company. (See Poole, J. V., and Clarke, assignors.)
Rabe, Karl, Stuttgart, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany. Wheel supporting means for vehicles. 2,158,776; May 16.
Radio Corporation of America. (See Baker, Judd O., assignor.)
Radio Corporation of America. (See Brailsford, J. D., and O'Neill, assignors.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See George, Ralph W., assignor.)
Radio Corporation of America. (See Hathaway, Jarrett L., assignor.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Meier, Wilber L., assignor.)
Radio Corporation of America. (See Sachtleben, Lawrence T., assignor.)
Radio Corporation of America. (See Tihanyi, Kalman, assignor.)
Ragatz, Edward G., assignor to Union Oil Company of California, Los Angeles, Calif. Vacuum steam distillation of heavy oils. 2,158,425; May 16.
Rails Company, The. (See Febrey, Harold H., assignor.)
Ramsey, Jesse A., Wenonah, N. J. Piston valve. 2,158,591; May 16.
Randall, Gordon E., Schenectady, N. Y., assignor to General Electric Company. Separator. 2,158,863; May 16.
Randolph, Roscoe C., Chico, Calif. Flexible separator screen. 2,158,705; May 16.
Ranglack, Franz, Essen-on-the-Ruhr, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register, accounting, and the like machine. 2,158,150; May 16.
Rascher & Betzold, Inc. (See Betzold, M. F., Rascher, and Torp, assignors.)
Rascher, Charles. (See Betzold, M. F., Rascher, and Torp.)
Rasmussen, Olaf, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Brake lining material glass fabric. 2,158,337; May 16.
Rauhaus, Arthur, Kittanning, Pa. Billfold. 2,158,913; May 16.
Ravanelli, Bennett H., Greggton, assignor to Oil Well Supply Company, Dallas, Tex. Pumping pendulum. 2,158,679; May 16.
Ray, William A., Glendale, Calif. Control circuit. 2,158,706; May 16.
Raybestos-Manhattan, Inc. (See Robinson, Thomas, assignor.)
Raymond, Gwynne, Oklahoma City, Okla. Metering apparatus. 2,158,381; May 16.
Reddish, Warren T., Cincinnati, Ohio, assignor, by mesne assignments, to Emery Industries, Inc. Dry cleaning and apparatus therefor. 2,158,614; May 16.
Redington, F. B., Co. (See Milmoe, Michael J., assignor.)
Redlon, Osgood M., Bath, Maine. Pipe hanger. 2,158,802; May 16.
Reece Button Hole Machine Company, The. (See Avis, Samuel W., assignor.)
Reece, Franklin A., Brookline, Mass. Button sewing machine. 2,158,199; May 16.
Reece, Franklin A., Brookline, Mass. Button sewing machine. 2,158,200; May 16.
Reed, Roland K., Bronxville, N. Y. Treating paper containers. 2,158,524; May 16.
Reetz, Carl G., assignor to National Battery Company, St. Paul, Minn. Storage battery. 2,158,988; May 16.
Regenburgh, Richard, Sr., Totawa Boro, N. J. Wheeled acrobatic figure toy. 2,158,426; May 16.
Reich, Hans. (See Grassmann, W., and Reich, assignors.)
Reichert, Joseph, Wiesbaden, Germany. Extracting oil or fat containing substances and the like. 2,158,427; May 16.
Reid, James S. (See Roberts, D., and Reid.)
Reinhardt, Otto K., Jamaica, N. Y., assignor, by mesne assignments, to Western Cartridge Company. Dry cell. 2,158,151; May 16.
Reiter, Daniel I., New York, N. Y. Slip-cover fastener. 2,158,152; May 16.
Rejeb, Nouri, et al. (See Kadri, Vassaf, assignor.)
Renfro, Thomas L., assignor of one-half to W. H. Nicholson, Taft, Calif. Oil sampler. 2,158,803; May 16.
Renner, Harold G., Detroit, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 2,158,777; May 16.
Rentz, Frank B., Wells, Minn. Air conditioning device. 2,158,707; May 16.
Research Corporation. (See Slagle, Edgar A., assignor.)
Research Products Corporation. (See Daley, Joseph J., assignor.)
Retailliau, Edmond R. P. E., Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif. Fractionation of sulphonic compounds. 2,158,680; May 16.
Rexair, Inc. (See Brock, Clarence A., assignor.)
Reynolds Research Corporation. (See Morse, E. H., Johnston, and Mack, assignors.)
Reynolds, Walter C., Polo, Ill. Hog feeder. 2,158,253; May 16.
Richardson, Sidney. (See Grotte, H. A., and Richardson.)
Rieck, Arno W., C. F. Chapman, and K. Wambach, assignors to Kraft-Phenix Cheese Corporation, Chicago, Ill. Slicing device. 2,158,667; May 16.
Riedl, Hans-Joachim, and G. Pfleiderer, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of hydrogen peroxide. 2,158,525; May 16.
Rikard, Aiken L. (See Jackson, William R., assignor.)
Riley Stoker Corporation. (See Kuhner, Max H., assignor.)
Riley Stoker Corporation. (See Nahigyan, Kevork K., assignor.)
Rinehart, Joseph H., Fort Lee, N. J. Oil case draining and cleaning apparatus. 2,158,914; May 16.
Rinnman, Harry, Berwyn, assignor to Universal Mantle, Inc., Brookfield, Ill. Incandescent mantle. 2,158,304; May 16.
Ritter, Heinrich. (See Zerweck, W., and Ritter.)
Rixson, Oscar C., Co., The. (See Garrison, Forrest C., assignor.)
Robbins, Martin V., assignor of one-fourth to N. R. McAllister and one-fourth to C. D. Johnson, Sacramento, Calif. Clothes pin. 2,158,592; May 16.
Roberts, Dudley, New York, N. Y., and J. S. Reid, Cleveland, Ohio, assignors to Rubatex Products, Inc., New York, N. Y. Manufacturing cellular rubber sheets. 2,158,086; May 16.
Roberts, Edward F., Rye, N. Y., and A. G. McKinnon, Montreal, Quebec, Canada, assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Making an article of footwear. 2,158,153; May 16.
Robertson, Gilbert, Benoni, Transvaal, assignor to E. J. Rocher, Johannesburg, Transvaal, Union of South Africa. Battery isolating switch suitable for use with internal combustion engines. 2,158,428; May 16.
Robertson, Robert R., Chicago, assignor to The Translode Joint Company, Chicago Heights, Ill. Road joint. 2,158,637; May 16.
Robinson, Forster, Lima, Ohio. Stuffing box. 2,158,833; May 16.
Robinson, Gerald R. (See Coppola, J., and Robinson.)
Robinson, Thomas, Lakewood, Ohio, assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Drop hammer board. 2,158,834; May 16.
Robinson, William H., Sr., et al. (See Long, John E., assignor.)
Rocher, Etienne J. (See Robertson, Gilbert, assignor.)
Rochester Manufacturing Co. (See Ford, George E., assignor.)
Rock, Robert B., Los Angeles, Calif. Furnace assembly. 2,158,338; May 16.
Rogers, George D., Columbus, Ohio. Mechanical calendar. 2,158,553; May 16.
Roh, Nikolaus, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Partially hydrogenated heterocyclic nitrogen compounds substituted by the aldehyde group and making same. 2,158,526; May 16.
Rose, James R., Edgeworth, Pa. Catalyst. 2,158,154; May 16.
Rose, Morris, and N. A. Judsen, assignors to Kellogg Switchboard & Supply Company, Chicago, Ill. Connector block. 2,158,305; May 16.
Rose, William H., Jersey City, N. J. Device for placement of nipples and similar devices upon bottles. 2,158,527; May 16.
Rosen, Raphael, Elizabeth, N. J., assignor to Standard Oil Development Company. Inhibited motor oils. 2,158,668; May 16.
Rosenberg, Stig E., Brockton, Mass. Windshield wiper. 2,158,254; May 16.
Ross, Frederick N., Grosse Pointe Park, assignor to Ash Products Corporation, Detroit, Mich. Clinch-on nut. 2,158,989; May 16.
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Direct dyes, process and product. 2,158,306; May 16.
Rowe, William W., Cincinnati, and W. A. Morris, Wyoming, assignors to The Paper Service Company, Lockland, Ohio. Apparatus for imparting stretchability to webs. 2,158,087; May 16.
Roy, Wilfrid J., Bloomfield, N. J., assignor to Gemex Company. Watch container. 2,158,155; May 16.
Rubatex Products, Inc. (See Peel, Frederick W., assignor.)
Rubatex Products, Inc. (See Roberts, D., and Reid, assignors.)
Ruben, Samuel, New Rochelle, N. Y. Metal composition. 2,158,864; May 16.
Rubens, Harry E., New York, N. Y. Liquid dispensing apparatus. 2,158,948; May 16.

Ruml, Joseph, et al. (See Bamberger, Alexander, assignor.)
Rumpel, Harvey H., assignor to Smith Engineering Works, Milwaukee, Wis. Crusher. 2,158,778; May 16.
Rumpel, Harvey H., assignor to Smith Engineering Works, Milwaukee, Wis. Crusher. 2,158,779; May 16.
Russell, Robert C., Dallas, Tex., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Valve operating mechanism. 2,158,730; May 16.
Ryan, Max R. (See Isham, R. M., and Ryan.)
Sabath, Adolph J. (See Wilcox, Burr C., assignor.)
Sabol, Ernest J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Stud-applying apparatus. 2,158,763; May 16.
Sachtleben, Lawrence T., Camden, N. J., assignor to Radio Corporation of America. Optical system and adjustment thereof. 2,158,307; May 16.
Sachtleben, Lawrence T., Camden, N. J., assignor to Radio Corporation of America. Exciter lamp for sound recorders and reproducers. 2,158,308; May 16.
Saha, Ludwig, Secane, assignor to Saha Manufacturing Company, Inc., Philadelphia, Pa. Dry expansion unit. 2,158,382; May 16.
Saha Manufacturing Company. (See Saha, Ludwig, assignor.)
Sale, William H., Richmond, Va., assignor to Naylor Patents Corporation. Hand brake holding mechanism. 2,158,429; May 16.
Salisbury, Arthur V., Kenton, Ohio. Automatic cut-off. 2,158,309; May 16.
Sammon, Joseph, Kearny, assignor to Driver-Harris Company, Harrison, N. J. Rollerway. 2,158,865; May 16.
Sandberg, James T., and S. R. Bjereus, Stockholm, Sweden. Whip-stitching device. 2,158,430; May 16.
Sanders, Eli, Bald Knob, Ark. Pencil attachment. 2,158,431; May 16.
Sanders, William H. (See Smith, W. N., and Sanders.)
Sardik Incorporated. (See Cowgill, William W., assignor.)
Sarles, Benjamin E. and B. R., Annapolis, Md. Folding step. 2,158,949; May 16.
Sarles, Benjamin R. (See Sarles, Benjamin E. and B. R.)
Saucke, Herman, New York, N. Y. Tool. 2,158,866; May 16.
Saunders, Laurence P., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Making heat exchangers. 2,158,383; May 16.
Sawdon, Victor J., Tuckahoe, N. Y. Multiform envelope. 2,158,528; May 16.
Saxby, Robert N., Liverpool, England, assignor to Associated Telephone & Telegraph Company, Chicago, Ill. Automatic switch for use in telephone or like systems. 2,158,384; May 16.
Schade, Willy. (See Frederick, C. W., and Schade.)
Schade, Willy, assignor to Eastman Kodak Company, Rochester, N. Y. Lens. 2,158,201; May 16.
Schade, Willy, assignor to Eastman Kodak Company, Rochester, N. Y. Lens system. 2,158,202; May 16.
Schaeffer, Erich. (See Basel, G., and Schaeffer.)
Schaper, William A., Oak Park, assignor to Johnson Laboratories, Inc., Chicago, Ill. Permeability-tuned intermediate-frequency transformer. 2,158,255; May 16.
Schick Industries Limited. (See Van Wynen, Russell, assignor.)
Schmidt, Henry F. (See Wilson, W. A., and Schmidt.)
Schmidt, Henry F., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bearing lubrication. 2,158,835; May 16.
Schmidt, Maximilian P., and G. Werner, assignors to Kalle & Co., Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Production of light-sensitive diazotype layers. 2,158,836; May 16.
Schmidt, William B., Chicago, Ill. Parachute braking means. 2,158,731; May 16.
Schneider, Benjamin B. (See Podbielniak, Walter J., assignor.)
Schnell, Steve, assignor to Wagner Electric Corporation, St. Louis, Mo. Automatic brake shoe wear compensating means. 2,158,804; May 16.
Schoenky, August R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Holding shoe uppers in lasted position. 2,158,203; May 16.
Schopmeyer, Irwin E., assignor of one-half to E. M. Dilley, Clermont, Fla. Crate. 2,158,256; May 16.
Schreiber-Gastell, Richard. (See Formhals, Anton, assignor.)
Schröder, Heinrich, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Ball bearing and balls of ceramic materials. 2,158,156; May 16.
Schukraft, Fred M., Oak Park, Ill. Method of and apparatus for packaging liquids. 2,158,837; May 16.
Schulenberg, Frederick H., assignor of one-half to B. Hibbard, Lima, Ohio. Toy. 2,158,432; May 16.
Schulte, George A., assignor to Health-Glo Laboratories, Inc., New York, N. Y. Cabinet bath apparatus. 2,158,681; May 16.
Schultz, Edward H., assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Spindle pin remover. 2,158,433; May 16.
Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse construction. 2,158,638; May 16.
Schwabacher, Gerhard P., Bridgeport, Conn., assignor to General Electric Company. Ribbon wiring. 2,158,867; May 16.
Schwartz, Edward, assignor to The Sound Publicity Corp., New York, N. Y. Sound-reproducing device. 2,158,554; May 16.
Schwartz, Sol, Chicago, Ill. Apparatus for making a bung ring. 2,158,434; May 16.
Schwarze Electric Company. (See Von Voigtlander, Frederick, assignor.)
Schwein, Carl F., Berlin, Germany. Electric coupling for vehicles. 2,158,385; May 16.
Scofield, Harold E. (See Atkins, S. C., and Scofield.)
Scrimgeour, William. (See Scrimgeour, William, assignor.)
Scrimgeour, William, assignor to W. Scrimgeour, Washington, D. C. Hypodermic syringe. 2,158,593; May 16.
Searcy, Hilton B., Gulfport, Miss. Rifle front sight illuminator. 2,158,915; May 16.
Seebury, J. P., Corporation. (See Johnson, Carl G., assignor.)
Seeck, Ferdinand W., Lebanon, Oreg. Differential mechanism. 2,158,157; May 16.
Seem, Charles B., assignor to Dutchess Tool Company, Beacon, N. Y. Dough divider and rounder. 2,158,594; May 16.
Segal, Samuel, Brooklyn, N. Y. Jimmyproof lock. 2,158,088; May 16.
Selco Products, Inc. (See Kohl, Everard F., assignor.)
Semet-Solvay Engineering Corporation. (See McIntire, Charles V., assignor.)
Servel, Inc. (See Collins, William D., assignor.)
Servel, Inc. (See Grubb, Gunnar, assignor.)
Shakespeare, Henry G., assignor to Shakespeare Products Company, Kalamazoo, Mich. Connecting link. 2,158,838; May 16.
Shakespeare Products Company. (See Shakespeare, Henry G., assignor.)
Shannon, Randolph W., Washington, D. C. Panel and support therefor. 2,158,732; May 16.
Shaw, Burton E., Adel, assignor to Penn Electric Switch Co., Des Moines, Iowa. Wall temperature compensated room thermostat. 2,158,435; May 16.
Shaw, Burton E., assignor to Penn Electric Switch Co., Goshen, Ind. Water valve. 2,158,436; May 16.
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Combination fan and limit switch structure. 2,158,437; May 16.
Shea, Joseph H., Baldwin, N. Y. Apparatus for the manufacture of printing plates. 2,158,158; May 16.
Sheaffer, W. A., Pen Company. (See Wright, Howard S., assignor.)
Sheehe, Robert E., Buffalo, N. Y. Check for doors and the like. 2,158,257; May 16.
Shell Development Company. (See Retalliliau, Edmond R. P. E., assignor.)
Shenk, William E., East Orange, N. J., assignor to United States Steel Corporation, New York, N. Y. Relay device. 2,158,438; May 16.
Sheppard, Samuel E., and W. Vanselow, assignors to Eastman Kodak Company, Rochester, N. Y. Fog inhibitor for photographic emulsions. 2,158,204; May 16.
Shildneck, Paul R. (See Hansen, D. W., and Shildneck.)
Shinholser, Mattie B. (See Braswell, Welca W., assignor.)
Shippy, Leo C., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Tube-rolling machine. 2,158,339; May 16.
Shirtcraft Company Incorporated, The. (See Kaplan, Charles, assignor.)
Sickles, F. W., Company. (See Oliver, Herbert F., assignor.)
Siemens Apparate und Maschinen G. m. b. H. (See Köster, Paul E., assignor.)
Silka, Silvio, Paris, France. Stethoscope. 2,158,764; May 16.
Sladek, Louis J., Chicago, Ill. Bracket for bathroom accessories. 2,158,734; May 16.
Slagle, Edgar A., North Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Disposal of sewage. 2,158,595; May 16.
Slater, Fred M., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Guard for rock drills. 2,158,529; May 16.
Slick, Edwin E., Pittsburgh, Pa. Building block. 2,158,089; May 16.
Smith, A. O., Corporation. (See Larson, Louis J., assignor.)
Smith, Benjamin H., assignor to Michigan Wire Goods Company, Niles, Mich. Portable cooking stove. 2,158,805; May 16.
Smith, Don, Austin, Tex. Dam. 2,158,205; May 16.
Smith Engineering Works. (See Rumpel, Harvey H., assignor.)
Smith, Ernest W., London, A. Charles, Streatham Vale, London, and R. W. E. Gaskin, Claygate, England. Dry gas meter. 2,158,839; May 16.
Smith, Frank B. (See Britton, E. C., Smith, Livak, and Sunderland.)
Smith, Harry F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,158,090; May 16.
Smith, Marlin E. (See Densmore, Samuel P., assignor.)
Smith, Reginald, et al. (See Eastin, Rollie R., assignor.)

Smith, S. Morgan, Company. (See Déglon, Henry, assignor.)
Smith, Walter N., Cleveland, Ohio, and W. H. Sanders, Washington, D. C. Device for indicating the stopping point of a vehicle. 2,158,310; May 16.
Smith, William L., Jr. (See Lawson, R. H., and Smith.)
Société Anonyme d'Etudes des Brevets et Procédés Coanda-Societe Coanda. (See Coanda, Henri, assignor.)
Socony-Vacuum Oil Company. (See Drake, Leonard C., assignor.)
Sola, Joseph G., Oak Park, Ill. Electrical heating mechanism. 2,158,733; May 16.
Solvay & Cie. (See Brouhon, Georges, assignor.)
Sonne, John, Detroit, Mich. Adjustable service pencil. 2,158,439; May 16.
Sound Publicity Corp., The. (See Schwartz, Edward, assignor.)
Spánel, Abraham N., Rochester, N. Y. Form for making rubber garments. 2,158,206; May 16.
Spánel, Abraham N., Rochester, N. Y. Rubber garment. 2,158,207; May 16.
Spase, Charles B., Nedrow, assignor to W. C. Lipe Inc., Syracuse, N. Y. Friction clutch mechanism. 2,158,440; May 16.
Sperry Gyroscope Company. (See Atkins, S. C., and Scofield, assignors.)
Sperzel, Joseph M., Brooklyn, N. Y. Air conditioning system. 2,158,869; May 16.
Spicer Manufacturing Corporation. (See Peterson, Carl D., assignor.)
Spieth, Karl A., Omaha, Nebr. Combined earth scraper, spreader, and dumper. 2,158,340; May 16.
Spilios, Plato A. (See Charles, R. W., George, and Spilios.)
Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,158,159; May 16.
Sprague Specialties Company. (See Collins, J. L., and Teeple, assignors.)
Spritzer, Edward, Bronx, N. Y. Toy. 2,158,639; May 16.
Square D Company. (See Allen, Wallace T., assignor.)
Square D Company. (See Jackson, John G., assignor.)
Square D Company. (See Wilhelm, Henry A., assignor.)
Squibb, E. R., & Sons. (See Lott, William A., assignor.)
Stacy, John D., Pittsfield, Mass., assignor to General Electric Company. Electric equipment. 2,158,868; May 16.
Standard Commercial Tobacco Company. (See Andrews, Andrew T., assignor.)
Standard Conveyor Company. (See Maltby, Edward H., assignor.)
Standard Electric Time Company, The. (See Dorsett, Leonard P., assignor.)
Standard Envelope Manufacturing Company, The. (See Bezzenberger, Frederick K., assignor.)
Standard Oil Development Company. (See Rosen, Raphael, assignor.)
Stanley Works, The. (See Stowell, Austin L., assignor.)
Starck, Werner, Hofheim in Taunus, and H. Freudenberger, Frankfort-on-the-Main-Nied, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing polymeric products. 2,158,311; May 16.
Steiner, Ernest. (See Lemire, E. A., and Steiner.)
Steinhardt, Curt. (See Lorenz, W., and Steinhardt.)
Stenberg, Knut E. B., assignor to Associated Attleboro Manufacturers, Inc., Attleboro, Mass. Knock-down cabinet assembly. 2,158,641; May 16.
Stenersen, Albert H., assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 2,158,991; May 16.
Stevens, Joseph R. (See Zellner, C. N., and Stevens.)
Stevens, Joseph R., assignor to Merck & Co., Inc., Rahway, N. J. Stabilized salts of acetyl salicylic acid. 2,158,091; May 16.
Stevens, William C., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electromagnetic contactor. 2,158,841; May 16.
Stewart, Peter, Boylston, Mass., assignor to The American Steel and Wire Company of New Jersey. Overfired furnace 2,158,765; May 16.
Stillman, Erwin F., Lompoc, Calif. Window lock. 2,158,260; May 16.
Stough, Charles R. (See Horn, H. J., and Stough.)
Stowell, Austin L., assignor to The Stanley Works, New Britain, Conn. Illuminated hand tool. 2,158,970; May 16.
Strange, John W., Acton, London, and W. H. Connell, Hillingdon, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron discharge device. 2,158,640; May 16.
Stratton, Glen S., Chicago, assignor of one-half to A. O. Huria, Oak Park, Ill., and one-fourth to H. L. Stratton, Omaha, Nebr. Cigarette package. 2,158,971; May 16.
Stratton, Hazel L., et al. (See Stratton, Glen S., assignor.)
Stuckey, Samuel G., Affton, assignor to Obear-Nester Glass Company, St. Louis, Mo. Adjustable shears. 2,158,708; May 16.
Sturtevant, B. F., Company. (See Anderson, Samuel M., assignor.)
Sturtevant, B. F., Company. (See Goldthwaite, George R., assignor.)
Sturtevant, B. F., Company. (See Hemming, H., and Sweet, assignors.)
Sucharski, Chester J., South Milwaukee, and A. W. Lees, Racine, Wis. Heating device. 2,158,258; May 16.
Sunderland, Winfield W. (See Britton, E. C., Smith, Livak, and Sunderland.)
Sutter, Frederic E., West Caldwell, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fusible material. 2,158,870; May 16.
Swank Products, Inc. (See Gosselin, Thomas, assignor.)
Swanson, Meryl F., Galva, Ill., Trucking vehicle. 2,158,596; May 16.
Swart, Richard H. (See Erbach, F. R., and Swart.)
Swartwood, Kenneth, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,158,840; May 16.
Sweet, Alva L., Schenectady, N. Y., assignor to General Electric Company. Electrical sequencing control. 2,158,887; May 16.
Sweet, Charles E. (See Hemming, H., and Sweet.)
Sweney, Don D., assignor to Dwyer Products Corporation, Michigan City, Ind. Shutter. 2,158,682; May 16.
Swett, Walter W., Takoma Park, Md. Folding table. 2,158,950; May 16.
Swift and Company. (See (Gullion; C. H., assignor) and Evans.)
Sybenga, Richard, assignor of one-half to C. A. Olsen, Davenport, Iowa. Meat tenderer. 2,158,766; May 16.
Sykes, Walter D., Sully, Penarth, South Wales. Rotary valve for internal combustion engines. 2,158,386; May 16.
Szigeti, Ladislaus, Ujpest, Hungary. Selecting single colors or color tones from pictures comprising several colors or color tones, especially for reproduction purposes. 2,158,951; May 16.
Taddiken, Ulrich A., Ridley Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Condenser apparatus. 2,158,842; May 16.
Tandler, William S. (See Fisher, G., Tandler, and Carlisle.)
Tar & Petroleum Process Company. (See Curran, Maurice D., assignor.)
Tartrais, Eugéne H., Montmorency, France. Apparatus for correcting the defects of accommodation of the eye. 2,158,642; May 16.
Taube, Carl, and O. Bayer, Leverkusen, I. G. Werk, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs. 2,158,843; May 16.
Taylor, Elmer H., assignor to The Chase-Shawmut Company, Newburyport, Mass. Electric switch. 2,158,387; May 16.
Taylor, Fred D., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Surge tank. 2,158,388; May 16.
Taylor, James G., San Rafael, Calif. Flap and aileron control system. 2,158,092; May 16.
Teeple, Robert. (See Collins, J. L., and Teeple.)
Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Fritz, Karl, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kotowski, P., and Dannehl, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Moser, W., and Paul, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröder, Heinrich, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Urtel, R., Andrieu, and Geiger, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Korshenewsky, Nicolai, assignor.)
Terrell, Ralph A., assignor to Borg-Warner Corporation, Chicago, Ill. Machine for making a barrel. 2,158,312; May 16.
Teske, Karl P., Davenport, Iowa. Liquid molasses stock feeder. 2,158,093; May 16.
Teske, Karl P., Davenport, Iowa. Feeding liquid molasses. 2,158,094; May 16.
Tetzlaff, Edwin F., assignor to Eastman Kodak Company, Rochester, N. Y. Attachment for motion picture machines. 2,158,208; May 16.
Texas Company, The. (See Evans, Louis P., assignor.)
Texas Company, The. (See Holmes, Will K., assignor.)
Texas Company, The. (See Knowles, Edwin C., assignor.)
Texas Company, The. (See Towne, Charles C., assignor.)
Thau, Max F., Los Angeles, Calif. Cooker. 2,158,341; May 16.
Theodore, Manuel, assignor to Measurite Products Company, Incorporated, Baltimore, Md. Dispensing device. 2,158,916; May 16.
Thiem, Carl, Greentown, assignor to Globe American Corporation, Kokomo, Ind. Oven control. 2,158,160; May 16.
Thompson, Albert R. (See Collett, C. H., and Thompson.)
Thompson, David W. (See Bartlett, Harry D., assignor.)
Thum, Martin, Rochester, N. Y. Spring structure for furniture. 2,158,441; May 16.
Tihanyi, Kalman, Budapest, Hungary, assignor to Radio Corporation of America. Television apparatus. 2,158,259; May 16.
Timberlake, Journey F., Charlottesville, Va. Conservation and preservation of topsoil. 2,158,952; May 16.
Tipton, William D., Stoneleigh, Md. Sleeve valve engine. 2,158,442; May 16.
Tolsted, George N., Hales Corners, Wis. Hay unloader. 2,158,917; May 16.

Toner, John H. (See Chamberlin, C. P., and Toner.)
Tootal Broadhurst Lee Company Limited. (See Corteen, H., Foulds, and Wood, assignors.)
Torp, Charles A. (See Betzold, M. F., Rascher, and Torp.)
Touborg, Jens. (See Gibson, C. J., and Touborg.)
Towne, Charles C., Beacon, assignor to The Texas Company, New York, N. Y. Lubricating oil. 2,158,389; May 16.
Townsend, Charles S., Ealing, assignor to Wellesley Holdings Limited, London, England. Producing humus fertilizer. 2,158,918; May 16.
Trader, Wilbur S., C. H. Hamilton, and W. H. Finley, Nashville, Tenn. Mixing and control device for fluids. 2,158,342; May 16.
Translode Joint Company. (See Robertson, Robert R., assignor.)
Tratsch, Walter A. (See Patzer, W., and Tratsch.)
Tratsch, Walter A., and W. Patzer, Chicago, Ill. Coin and slug separating device. 2,158,919; May 16.
Traversi, Gemma B. (See Normandi, A. L., and Traversi.)
Trout, Walter C., assignor to Lufkin Foundry & Machine Company, Lufkin, Tex. Center iron bearing. 2,158,161; May 16.
Trumble, John T., Detroit, Mich. Metal spoked wheel. 2,158,709; May 16.
Trussell Manufacturing Company. (See Cruzan, Charles C., assignor.)
Turner, William D., assignor to H. C. Bugbird Company, Inc., New York, N. Y. Production of strontium nitrate. 2,158,162; May 16.
Union Carbide and Carbon Corporation. (See Lytle, A. R., and Morton, assignors.)
Union Oil Company of California. (See Barnes, C. D., and Wright, assignors.)
Union Oil Company of California. (See Beckwith, Lawton B., assignor.)
Union Oil Company of California. (See Carr, D. E., and Wade, assignors.)
Union Oil Company of California. (See Merrill, David R., assignor.)
Union Oil Company of California. (See Ragatz, Edward G., assignor.)
Union Special Machine Company. (See Hacklander, H., and Le Vesconte, assignors.)
Union Switch & Signal Company, The. (See Dowling, Philip H., assignor.)
United Engineering & Foundry Company. (See Biggert, F. C., Jr., and Buente, assignors.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Meyer, Vernon H., assignor.)
United Shoe Machinery Corporation. (See Pepin, Charles H., assignor.)
United Shoe Machinery Corporation. (See Schoenky, August R., assignor.)
United States Air Conditioning Corporation. (See Feinberg, Archie, assignor.)
United States Gypsum Company. (See King, G. D., and Phelps, assignors.)
United States Plywood Corporation. (See Ottinger, Lawrence, assignor.)
United States Rubber Company. (See McGavack, John, assignor.)
United States Rubber Company. (See Roberts, E. F., and McKinnon, assignors.)
United States Rubber Company. (See Wikle, George F., assignor.)
United States Steel Corporation. (See Shenk, William E., assignor.)
Universal Mantle, Inc. (See Rinnman, Harry, assignor.)
Universal Oil Products Company. (See Alther, Joseph G., assignor.)
Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
Universal Oil Products Company. (See Swartwood, Kenneth, assignor.)
Universal Window Company. (See Wiley, Esmond F., assignor.)
Urbain, Walter M., and L. B. Jensen, assignors to Industrial Patents Corporation, Chicago, Ill. Bleaching oils and fats. 2,158,163; May 16.
Urie, Frank D. (See Lawson, R. R., Bennett, and Urie.)
Urtel, Rudolf, R. Andrieu, and M. Geiger, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Television receiver operating level control. 2,158,261; May 16.
Utah Radio Products Company. (See Barrett, Edward L., assignor.)
V. Festenberg-Pakisch, Bruno, Hamburg, Germany. Driving chain. 2,158,622; May 16.
Van den Bergh, Barend, Ginneken, Netherlands, assignor to American Enka Corporation, Enka, N. C. Device for supporting packages of strand materials. 2,158,262; May 16.
Van der Hoeven, Bernard J. C., Pittsburgh, Pa., assignor to Koppers Company. Coke oven apparatus. 2,158,710; May 16.
Van Horn, Junius B. (See Mendenhall, E., and Van Horn.)
Van Lammeren, Willem P., Voorschoten, Netherlands. Turbine. 2,158,557; May 16.
Vanselow, Waldemar. (See Sheppard, S. E., and Vanselow.)
Van Wynen, Russell, Westmount, Quebec, Canada, assignor to Schick Industries Limited, Nassau, Bahama Islands. Contact device. 2,158,164; May 16.
Vapor Car Heating Company. (See Parks, P. B., and Lehane, assignors.)
Vaughn, Thomas H. (See Lytle, A. R., and Vaughn.)
Vierow, Emil A., Pittsburgh, Pa. Regenerative furnace. 2,158,095; May 16.
Vigneault, Edmond, assignor to Franco-American Patents Limited, Trois-Rivieres, Quebec, Canada. Steam boiler. 2,158,735; May 16.
Vilsmeier, Anton. (See Neresheimer, H., and Vilsmeier.)
Virtue Bros. Mfg. Co. (See Elmore, Austin E.)
Virtue, Julian A., et al. (See Elmore, Austin E., assignor.)
Virtue, Philip M., et al. (See Elmore, Austin E., assignor.)
Vogt, Lawrence E., Lansdowne, Pa. Vehicle. 2,158,780; May 16.
Vogue Mfg. Co. (See Knupp, Ethel R., assignor.)
Voith, J. M. (See Baumann, Johannes, assignor.)
Vondersmith, Philip G. (See Garratt, Walter A., assignor.)
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Pick-off gauge. 2,158,313; May 16.
Vonick, John F., Bridgeport, Conn. Smoker's stand. 2,158,806; May 16.
Von Korshenewsky, Nicolai, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Cathode ray tube. 2,158,314; May 16.
Von Okolicsanyi, Franz, Kensington, London, England. Television system. 2,158,990; May 16.
Von Planck, Gordon L., San Francisco, Calif. Producing vitreous enameling stock and the like. 2,158,443; May 16.
Von Voigtlander, Frederick, assignor to Schwarze Electric Company, Adrian, Mich. Sound signaling. 2,158,209; May 16.
Wacek, Rudolph, Chicago, Ill. Gas safety heater. 2,158,643; May 16.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemischer Industrie G. m. b. H. (See Basel, G., and Schaeffer, assignors.)
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie G. m. b. H. (See Berg, H., Heim, and Leiss, assignors.)
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie G. m. b. H. (See Endhofer, G., and Wolff, assignors.)
Wade, Maner L. (See Carr, D. E., and Wade.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wagner, Erwin, assignor to Wagner Sign Service Incorporated, Chicago, Ill. Display device. 2,158,343; May 16.
Wagner Sign Service Incorporated. (See Wagner, Erwin, assignor.)
Wahl Company, The. (See Stenersen, Albert H., assignor.)
Walker, Brooks, Piedmont, Calif. Locking apparatus for vehicle body doors. 2,158,736; May 16.
Walker, George L., Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Starting device for cutting torches. 2,158,489; May 16.
Walker, Nevilles E., Portland, Oreg. Propeller mounting for toy airplanes. 2,158,344; May 16.
Walker, Ronald W. (See Keith, W. D., and Walker.)
Wallace & Tiernan Company. (See Booth, George M., assignor.)
Wallace & Tiernan Company. (See Peet, Gerald D., assignor.)
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Paper can. 2,158,165; May 16.
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Container sealing method. 2,158,166; May 16.
Wambach, Kurt. (See Rieck, A. W., Chapman, and Wambach.)
Ward, Langley C., Racine, Wis. Street indicator. 2,158,644; May 16.
Wardle, John A., South Jordan, Utah. General utility tool. 2,158,444; May 16.
Warner & Swasey Company, The. (See Lange, M. E., and Longstreet, assignors.)
Warren, Henry E., assignor to Warren Telechron Company, Inc., Ashland, Mass. Synchronized escapement clock. 2,158,888; May 16.
Warren Telechron Company. (See Warren, Henry E., assignor.)
Watson, William F., Bradenton, Fla. Fishing reel. 2,158,597; May 16.
Watter, Michael, assignor to The Glenn L. Martin Company, Baltimore, Md. Aircraft construction. 2,158,598; May 16.
Way, George H., assignor to C. G. Conn Ltd., Elkhart, Ind. Trap table. 2,158,807; May 16.
Webber, George D., assignor to Webber Metric Gage Company, Cleveland, Ohio. Measuring instrument. 2,158,555; May 16.
Webber Metric Gage Company. (See Webber, George D., assignor.)

Weber, Stéphan, Sallanches, France. Ski attachment. 2,158,599; May 16.
Weber, Victor, assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Circuit breaker. 2,158,711; May 16.
Webster, Clarence O., assignor of one-half to H. Cooke, Springfield, Ohio. Automatic chuck jaw. 2,158,490; May 16.
Wehr Steel Company. (See Huff, Ernest, assignor.)
Weindel, Fred, Jr., assignor to L. F. Grammes & Sons, Inc., Allentown, Pa. Box construction. 2,158,972; May 16.
Weiss, Samuel, Brooklyn, N. Y. Tag and means thereon for attaching the same to garments. 2,158,345; May 16.
Weiss, Sidney, University City, Mo. Musical toy. 2,158,445; May 16.
Wellesley Holdings Limited. (See Townsend, Charles S., assignor.)
Wenn, Floyd D., Binghamton, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Safety emergency brake lever. 2,158,263; May 16.
Wentz, Oscar W., Long Island City, N. Y. Container construction. 2,158,097; May 16.
Werft, Ellis L., Allentown, Pa. Composition adapted to liberate free iodine. 2,158,446; May 16.
Werner, Georg. (See Schmidt, M. P., and Werner.)
Werntz, James H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant. 2,158,096; May 16.
Wesche, Bjarne A., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Power grinder. 2,158,556; May 16.
West, Wilfred H., assignor to Crown Zellerbach Corporation, San Francisco, Calif. Refill dispensing wrapper. 2,158,712; May 16.
Western Cartridge Company. (See Pugsley, Edwin, assignor.)
Western Cartridge Company. (See Reinhardt, Otto K., assignor.)
Western Electric Company. (See Arthur, Harry J., assignor.)
Western Electric Company. (See Johnstone, H. G., and Gates, assignors.)
Western Electric Company. (See Lloyd, Stanley M., assignor.)
Western Electric Company. (See Martindell, Frank, assignor.)
Western Electric Company. (See Oesterle, Frank D., assignor.)
Western Gulf Oil Company. (See Bowen, Lot, assignor.)
Western Union Telegraph Company, The. (See Wise, Raleigh J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ford, J. G., and Hill, assignors.)
Westinghouse Electric & Manufacturing Company. (See Lingal, Harry J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sutter, Frederic E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Taddiken, Ulrich A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wilson, W. A., and Schmidt, assignors.)
Weston Electrical Instrument Corporation. (See Lamb, Anthony H., assignor.)
Wettlaufer, William L., Buffalo, N. Y. Antiskid device. 2,158,264; May 16.
Wetzel, Edward A., assignor to Briggs Manufacturing Company, Detroit, Mich. Sealing strip. 2,158,808; May 16.
Wheary, George H. (See Peshek, J., and Wheary.)
Wheary Trunk Company. (See Peshek, J., and Wheary, assignors.)
Wheeler, Harvey C. (See Moffat, Albert S., assignor.)
Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Scrap collector for cigar machines. 2,158,315; May 16.
Wheeling Steel Corporation. (See Cook, Nelson E., assignor.)
Whenham, Everett L., Los Angeles, Calif. Automobile traffic signal. 2,158,973; May 16.
White Cap Company. (See Davies, Lynn E., assignor.)
White Cap Company. (See White, William P., assignor.)
White, Herbert E., San Francisco, Calif., assignor to The E. H. Edwards Company. Open mesh fabric. 2,158,390; May 16.
White, John C., Madison, Wis. Heat exchanger. 2,158,809; May 16.
White, William P., Glencoe, assignor to White Cap Company, Chicago, Ill. Closure cap. 2,158,683; May 16.
Whitehead, George E., assignor to Whitehead Switchgear and Inventions Limited, Cardiff, Wales. Circuit breaker having butt contacts. 2,158,920; May 16.
Whitehead Switchgear and Inventions Limited. (See Whitehead, George E., assignor.)
Whiting, John G. (See Beekley, H. L., and Whiting.)
Whitsett, Robert, assignor to The Gratiot Fixture & Supply Company, Detroit, Mich. Display counter. 2,158,447; May 16.
Wiegand, Edwin L. (See Calhoun, Ernest N., assignor.)
Wiegand, Edwin L., Pittsburgh, Pa. Heating unit and making the same. 2,158,600; May 16.
Wiegand, Edwin L., Pittsburgh, Pa. Electrical heating apparatus and making the same. 2,158,601; May 16.
Wiegand, Edwin L., Pittsburgh, Pa. Heating apparatus. 2,158,605; May 16.
Wigzell, Alden, et al. (See Wigzell, Charles H., assignor.)
Wigzell, Charles H., assignor of two-eighths to J. C. Wigzell, one-eighth to R. Wigzell, and one-eighth to A. Wigzell, Big Lake, Tex. Windmill. 2,158,606; May 16.
Wigzell, J. C., et al. (See Wigzell, Charles H., assignor.)
Wigzell, Ralph, et al. (See Wigzell, Charles H., assignor.)
Wikle, George F., Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Tire-slitting machine. 2,158,167; May 16.
Wilcox, Burr C., Dundee, assignor to A. J. Sabath, Chicago, Ill. Road transferring and aligning device. 2,158,953; May 16.
Wilcox, Isaac L., assignor to Oswego Falls Corporation, Fulton, N. Y. Container. 2,158,448; May 16.
Wilde, Walter J., Spanish Fork, Utah. Warning signal. 2,158,449; May 16.
Wiley, Esmond F., assignor to Universal Window Company, Berkeley, Calif. Multiple sash window hardware. 2,158,714; May 16.
Wilhelm, Henry A., Milwaukee, Wis., assignor to Square D Company, Detroit, Mich. Timing relay. 2,158,346; May 16.
Willans, Peter W., assignor to Baird Television Limited, London, England. Electron discharge device. 2,158,450; May 16.
Willard, Louis E., New York, assignor to C. Zimmer, Brooklyn, N. Y. Shock absorber packing and sealing structure. 2,158,645; May 16.
Willene, Martin. (See Mistretta, A., Blomberg, and Willene.)
Williams, Ira, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Thermoplastic derivatives of rubber. 2,158,530; May 16.
Wilson, John A., Milwaukee, Wis., assignor to Wilson Leather Company. Leather pulp and products made therefrom. 2,158,265; May 16.
Wilson Leather Company. (See Wilson, John A., assignor.)
Wilson, Roger C., Alta, Iowa. Lock system for automobiles and the like. 2,158,451; May 16.
Wilson, William, Accrington, assignor to Howard and Bullough, Limited, Accrington, Lancashire, England. Underclearer mounting in textile spinning, preparing, and like machines. 2,158,921; May 16.
Wilson, William A., Swarthmore, and H. F. Schmidt, Lansdowne, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bearing lubrication. 2,158,810; May 16.
Winship, Leslie W., Los Angeles, Calif. Tank valves. 2,158,452; May 16.
Winthrop Chemical Company. (See Ludwig, Willy, assignor.)
Wiora, Joseph A., Chicago, Ill. Battery carrier. 2,158,646; May 16.
Wise, Raleigh J., Dunellen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. System and apparatus for facsimile telegraphy. 2,158,391; May 16.
Wiseman, Fred B., Denver, Colo. Cabinet. 2,158,713; May 16.
Wolfe, Harold F., assignor to The Murray Corporation of America, Detroit, Mich. Spring seat construction. 2,158,647; May 16.
Wolff, Georg. (See Edhofer, G., and Wolff.)
Wood, Frederick C. (See Corteen, H., Foulds, and Wood.)
Wood, Glenn D., assignor to Posture Research Corporation, Elkhart, Ind. Chair. 2,158,453; May 16.
Woodruff, George A., Kirkwood, Mo. Clip-attaching device. 2,158,168; May 16.
Wooster Brush Company, The. (See Foss, Oscar H., assignor.)
Wright Aeronautical Corporation. (See Browne, Kenneth A., assignor.)
Wright Aeronautical Corporation. (See Chilton, Roland, assignor.)
Wright, David M., Agricola, Fla., assignor to Industrial Patents Corporation, Chicago, Ill. Dewatering method. 2,158,169; May 16.
Wright, Howard S., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Fountain pen. 2,158,615; May 16.
Wright, William A. S. (See Barnes, C. D., and Wright.)
Wünsch, Guido, Berlin-Steglitz, Germany, assignor to Askania-Werke A. G. Control valve for liquids of variable viscosities. 2,158,737; May 16.
Wurlitzer, Rudolph, Company, The. (See Mitchell, John R., assignor.)
Yellow Truck & Coach Manufacturing Company. (See Bock, Carl J., assignor.)
Yellow Truck & Coach Manufacturing Company. (See Priess, John F., assignor.)
Yirava, Charles R., Cleveland, Ohio. Portable dispensing apparatus. 2,158,347; May 16.
York Ice Machinery Corporation. (See Bergdoll, John G., assignor.)
York Ice Machinery Corporation. (See Chamberlain Joseph R., assignor.)

Young, Donald H., San Francisco, Calif., assignor, by mesne assignments, to The American Brake Shoe and Foundry Company, New York, N. Y. Excavator. 2,158,348; May 16.

Youngstown Steel Door Company, The. (See Madland, Gabriel, assignor.)

Zeiss, Carl. (See König, Albert, assignor.)

Zellner, Carl N., and J. R. Stevens, assignors to Merck & Co. Inc., Rahway, N. J. Synthesizing allantoin. 2,158,098; May 16.

Zemba, John W. (See Coleman, G. H., and Zemba.)

Zerweck, Werner, and H. Ritter, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Nitro derivatives of para alkyl sulphoxides of diphenylamines. 2,158,648; May 16.

Zigerli, Paul, Zurich, Switzerland. Purification of sewage or waste liquors. 2,158,954; May 16.

Zimmer, Charles. (See Willard, Louis E., assignor.)

Zimowske, Fred J., Mio, Mich. Scriber. 2,158,210; May 16.

Zubiria, Carlos C., Mexico, D. F., Mexico. Venetian blind structure. 2,158,454; May 16.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ash receiver, Sliding. R. F. De Boer. Re. 21,080; May 16.

Casings, Perforating. F. E. O'Neill. Re. 21,085; May 16.

Electrolytic device. P. Robinson and J. L. Collins. Re. 21,088; May 16.

Fender skirt, Ornamental. G. A. Lyon. Re. 21,083; May 16.

Focusing means for incandescent studio spotlights. J. C. Rose. Re. 21,089; May 16.

Garment and fastening means. J. R. Lankenau. Re. 21,092; May 16.

Hinge. T. E. Horst. Re. 21,081; May 16.

Picture, Stereoscopic. M. M. Idzal. Re. 21,082; May 16.

Register, accounting and the like, machine, Cash. E. Breitling and H. Schwenk. Re. 21,078; May 16.

Rubber process. T. L. Shepherd. Re. 21,090; May 16.

Signal, Variable traffic. R. O. Nelson. Re. 21,084; May 16.

Stove, Apartment. V. J. Cronyn and H. Peruzzini. Re. 21,079; May 16.

Switch, Vacuum. W. K. Rankin. Re. 21,087; May 16.

Traffic controlling system for railroads, Centralized N. D. Preston. Re. 21,086; May 16.

Vehicle, Power driven. M. Wagner. Re. 21,091; May 16.

LIST OF DESIGN INVENTIONS

Air supply device for treating the scalp or the like. M. Ehrlich. 114,843; May 16.

Alphabet for forming monograms or similar articles. M. Chernow. 114,841; May 16.

Bag, Display. A. Palmigiano. 114,765; May 16.

Basket. A. W. Planeta. 114,798; May 16.

Basket, Flower. E. A. Bittel. 114,743–4; May 16.

Basket, Flower. E. A. Bittel. 114,778–83; May 16.

Blouse. B. Geist. 114,757; May 16.

Board or the like, Display. J. J. Fabacher. 114,809; May 16.

Book end. R. Dopyera. 114,871; May 16.

Bottle. R. A. Blunt. 114,745–6; May 16.

Bottle. A. C. Meyer. 114,763; May 16.

Bracelet. G. D. Sullivan. 114,835; May 16.

Bracket or similar article, Lamp mounting. H. B. Dopley. 114,855; May 16.

Bridge for an ophthalmic mounting. S. E. Bouchard. 114,784; May 16.

Cabinet for greasing equipment or the like. H. Van Doren and W. Johnson. 114,774; May 16.

Can, Tobacco. E. K. Johnson. 114,760; May 16.

Canister, Tea. M. Kamenstein. 114,858; May 16.

Cap. R. Feintuck. 114,880; May 16.

Case, Lipstick. J. L. Younghusband. 114,887; May 16.

Case, Vanity. F. McIntosh. 114,863; May 16.

Casing, Automobile heater. J. R. Morgan. 114,823; May 16.

Casing for door closing and checking device or similar article. L. F. Schmidt. 114,824–33; May 16.

Chair or similar article. J. D. Rogers. 114,768; May 16.

Clip or similar article. J. Wuyts. 114,801; May 16.

Coat. B. Fischer. 114,754–5; May 16.

Coat. A. Levine. 114,762; May 16.

Coat. N. Stein. 114,771; May 16.

Coat or similar article, Child's. M. Glass. 114,857; May 16.

Collar. A. Livingston. 114,884; May 16.

Cooker, Frankfurter. B. A. Busey and R. B. Hartzler. 114,806; May 16.

Dental unit. E. L. Monnot. 114,821; May 16.

Dental unit. E. L. Monnot. 114,849; May 16.

Desk. G. D. Norman. 114,764; May 16.

Desk and play board, Combination. F. B. Robb. 114,767; May 16.

Dolly or similar article. J. S. Madsen. 114,817; May 16.

Dress. L. Epstein. 114,879; May 16.

Dress. P. Fracchia. 114,844; May 16.

Dress. H. M. Harris. 114,813; May 16.

Dress. H. M. Harris. 114,882; May 16.

Dress. M. Massow. 114,861; May 16.

Dress. M. Massow. 114,874; May 16.

Dress. M. Massow. 114,885; May 16.

Dress. J. M. Sterngold. 114,875–6; May 16.

Dress ensemble. P. Byrnes. 114,840; May 16.

Dress ensemble. L. Epstein. 114,878; May 16.

Dress ensemble. H. M. Harris. 114,881; May 16.

Dress ensemble. M. Massow. 114,862; May 16.

Dress ensemble. M. Massow. 114,872–3; May 16.

Dress, Ensemble. S. Weill. 114,838; May 16.

Eye goggle frame. R. Simon. 114,800; May 16.

Fabric or similar article, Textile. O. M. Gottesman. 114,811; May 16.

Fabric or similar article, Textile. M. Turpan. 114,836–7; May 16.

Fabric or similar article, Textile. M. Turpan. 114,852; May 16.

Fabric, Textile. G. Megibow. 114,820; May 16.

Fabric, Textile. M. H. Rubin. 114,867–9; May 16.

Figurine. D. Bothwell. 114,747; May 16.

Frame for a display board or the like. J. J. Fabacher. 114,808; May 16.

Fur cleaning apparatus. W. Haertel. 114,845; May 16.

Game board. F. Graef. 114,812; May 16.

Game device. J. Brophy. 114,749; May 16.

Generator, Wind driven twin. J. H. Jacobs. 114,886; May 16.

Girdle. E. Siegel. 114,770; May 16.

Gown, Wedding. M. J. Shapiro. 114,799; May 16.

Guitar or similar article, Electric Hawaiian. H. S. Sunshine. 114,772–3; May 16.

Handbag. F. N. Lewis. 114,859–60; May 16.

Handbag. F. N. Lewis. 114,847–8; May 16.

Handkerchief or similar article. H. Rosenbaum. 114,850; May 16.

Hanger, Garment. J. F. Fewster. 114,753; May 16.

Holder, Candle. F. M. Wojtalewicz. 114,839; May 16.

Holder, Card. F. M. Wojtalewicz. 114,854; May 16.

Holder for paper napkins or the like. R. F. Carpenter. 114,750; May 16.

Holder or similar article, Collar. G. A. Ingleby. 114,790; May 16.

Jacket. S. Stoll. 114,834; May 16.

Lamb base. J. Kernes. 114,846; May 16.

Lens for a headlight or the like. A. R. Stahl. 114,870; May 16.

Light bracket and shade, Combined. J. W. Brooks. 114,805; May 16.

Monoplane, Symmetrically sectioned, all wing cantilever. J. G. Taylor and O. A. Swanson. 114,851; May 16.

Pan, Baking. R. C. Pater. 114,766; May 16.

Penholder. J. Lusareta. 114,791; May 16.

Printing machine. F. E. Curtis. 114,842; May 16.

Projection viewing apparatus. R. S. Hopkins. 114,789; May 16.

Redingote. E. M. Ciccone. 114,807; May 16.

Ring or similar article, Finger. S. Kaufman. 114,761; May 16.

Rug or similar article. W. Hoos. 114,814; May 16.

Ruler or similar article, Combination. F. W. Fuller. 114,756; May 16.

Sandal. H. B. Axman. 114,777; May 16.

Sandwich. D. A. Wallace. 114,775; May 16.

Scarf. V. Unterreiner. 114,877; May 16.

Scarf or similar article. J. S. Madsen. 114,793–7; May 16.

Scarf or similar article. J. S. Madsen. 114,816; May 16.

Shoe. D. L. Cohen. 114,785; May 16.

Sign. S. S. Bair. 114,742; May 16.

Signal facing, Traffic. G. Muir. 114,865; May 16.

Signal, Traffic. G. Muir. 114,864; May 16.

Slipper. M. Delman. 114,787; May 16.

Sole and heel, Combined. A. C. Cutler. 114,786; May 16.

Spoon or other article of flatware. A. Mackewicz. 114,792; May 16.

Spray gun and container cap, Combined. A. C. Radtke. 114,866; May 16.

Stand, Display. V. Weidner. 114,776; May 16.

Stand, Smoking. E. Schultz. 114,769; May 16.

Standard for a dental unit or the like. E. L. Monnot. 114,822; May 16.

Stick for frozen confectionery. A. De Laurentis. 114,752; May 16.

Sweater. S. Cohen. 114,751; May 16.

Table. A. Hartmen. 114,758; May 16.

Tablecoth or similar article. B. Elfenbein. 114,856; May 16.
Tablecloth or similar article. J. S. Madsen. 114,818–9; May 16.
Tassel. E. E. Weller. 114,853; May 16.
Tennis bat, Street. W. G. Fletcher. 114,810; May 16.
Tire. G. W. Anderson. 114,741; May 16.
Toy, Dancing. A. D. Amerise. 114,802; May 16.
Tray. H. Herzog. 114,883; May 16.
Vase or similar article. D. Bothwell. 114,748; May 16.
Vase or similar article. D. Bothrwell. 114,804; May 16.
Vase or similar article. J. Lawyer. 114,815; May 16.
Vehicle. C. J. Anderson. 114,803; May 16.
Wastebasket. O. O. Hobson. 114,759; May 16.
Watch or similar article. A. S. Freedman. 114,788; May 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading machine. V. Kadri. 2,158,940; May 16.
Absorbent article-saturating apparatus. S. P. Miller. 2,158,334; May 16.
Accounting system. H. G. Johnstone and J. C. Gates. 2,158,872; May 16.
Acetylene, Producing monovinyl. H. Berg, H. Helm, and F. Leiss. 2,158,051; May 16.
Acrylates. W. A. Lott. 2,158,239; May 16.
Actuator for glare shields. M. J. Larson. 2,158,330; May 16.
Advertising display case. S. P. C. Porter. 2,158,085; May 16.
Air circulating and conditioning apparatus, Vehicle body. J. N. H. Christman. 2,158,741; May 16.
Air circulating device. F. C. Kilb. 2,158,074; May 16.
Air conditioner. J. E. Long. 2,158,294; May 16.
Air conditioning device. F. B. Rentz. 2,158,707; May 16.
Air conditioning system. S. M. Anderson. 2,158,684; May 16.
Air conditioning system. C. H. Peters. 2,158,250; May 16.
Air conditioning system. J. M. Sperzel. 2,158,869; May 16.
Air conditioning system for passenger vehicles. H. Hemming and C. E. Sweet. 2,158,966; May 16.
Air control valve, Auxiliary. F. Gianatasio. 2,158,819, May 16.
Aircraft construction. M. Watter. 2,158,598; May 16.
Airfoil construction. G. E. Barnhart. 2,158,686; May 16.
Aldehydes, Production of aromatic. W. C. Meuly. 2,158,518–9; May 16.
Alginate product and process, Amine. B. Preble. 2,158,486; May 16.
Alginate product and process, Triethanolamine. B. Preble. 2,158,487; May 16.
Alginate salts and making same. B. Preble. 2,158,485; May 16.
Alkali metal peroxides, Production of. G. Pfleiderer. 2,158,523; May 16.
Allantoin, Synthesizing. C. N. Zellner and J. R. Stevens. 2,158,098; May 16.
Amplifying system and operation, Electrical. J. J. Numans. 2,158,248; May 16.
Amusement device. W. D. Keith and R. W. Walker. 2,158,073; May 16.
Anchoring for concrete or the like. R. S. Peirce. 2,158,302; May 16.
Antenna system. L. M. Leeds. 2,158,875; May 16.
Antenna system. W. Moser and H. E. Paul. 2,158,376; May 16.
Antenna, Short wave. W. Buschbeck. 2,158,271; May 16.
Antiskid device. W. L. Wettlaufer. 2,158,264; May 16.
Apparatus for feeding countercurrent extraction units. M. Bonotto. 2,158,782; May 16.
Apparatus for handling strip material. H. J. Arthur. 2,158,790; May 16.
Apparatus for making a bung ring. S. Schwartz. 2,158,434; May 16.
Arm rest for fishing poles. C. T. Bowen. 2,158,104; May 16.
Article of footwear, Making an. E. F. Roberts and A. G. McKinnon. 2,158,153; May 16.
Articulated car. M. P. Blomberg. 2,158,062; May 16.
Arylamino-derivatives of 2,4-dinitro phenol. E. C. Britton, F. B. Smith, J. E. Livak, and W. W. Sunderland. 2,158,956; May 16.
Asphaltic coating and protecting pipe lines with same. L. B. Beckwith. 2,158,772; May 16.
Automatic valve. H. L. Beckley and J. G. Whiting. 2,158,715; May 16.
Automobile lock. H. S. Jandus. 2,158,455; May 16.
Bag frame. B. Blacher. 2,158,955; May 16.
Baling attachment for a harvester, Chaff. J. M. Dalimata. 2,158,745; May 16.
Bank, Registering. H. T. Kingsbury. 2,158,459; May 16.
Barber's chair. A. T. Hascham. 2,158,183; May 16.
Barrel, Lined tumbling. J. Lupo, Jr. 2,158,076; May 16.
Barrel washing and rinsing machine. F. C. Chapman. 2,158,404; May 16.
Battery box. A. G. Dean. 2,158,784; May 16.
Battery carrier. J. A. Wiora. 2,158,646; May 16.
Battery charger, Industrial truck and tractor. E. W. Breisch. 2,158,979; May 16.
Battery, Storage. C. G. Reetz. 2,158,988; May 16.
Bearing: *See*—
  Center iron bearing.
  Rocker arm bearing.
Bearing and balls of ceramic material, Ball. H. Schröder. 2,158,156; May 16.
Bearing for railway vehicles, Axle. G. Nemetz. 2,158,905; May 16.
Bearings, Making. R. P. Kochring and J. M. Hildabolt. 2,158,461; May 16.
Beater. A. J. Piperi. 2,158,912; May 16.
Bed lamp. S. Davio. 2,158,408; May 16.
Bench back rest. W. V. Newport. 2,158,247; May 16.
Bier, Adjustable. B. J. and M. W. Lang. 2,158,546; May 16.
Billfold. A. Rauhaus. 2,158,913; May 16.
Bit: *See*—
  Detachable drill bit.
Blind structure, Venetian. C. C. Zubiria. 2,158,454; May 16.
Block: *See*—
  Building block.
  Connector block.
Board: *See*—
  Drop hammer board.
Boiler: *See*—
  Mercury boiler.
  Steam boiler.
Book, Manifolding. A. R. Lawson. 2,158,292; May 16.
Bottles or the like, Device for delivering milk. A. W. Brierley, N. Dunkerley, and J. Hunter. 2,158,397; May 16.
Box: *See*—
  Battery box.
  Gear box.
  Folding box.
  Stuffing box.
Box construction. F. Weindel, Jr. 2,158,972; May 16.
Bracket for bathroom accessories. L. J. Sladek. 2,158,734; May 16.
Braiding machine. J. G. Aldrich. 2,158,266; May 16.
Brake: *See*—
  Hand brake.
Brake. C. E. Gregory. 2,158,624; May 16.
Brake holding mechanism, Hand. W. H. Sale. 2,158,429; May 16.
Brake mechanism. J. Coppola and G. R. Robinson. 2,158,175; May 16.
Brake mechanism. R. C. Hoyt. 2,158,699–700; May 16.
Brake operating mechanism. A. F. Ericson and B. H. Anibal. 2,158,323; May 16.
Brake shoe. A. M. Franchi. 2,158,818; May 16.
Brake shoe wear compensating means, Automatic. S. Schnell. 2,158,804; May 16.
Bread and bakery product. R. W. Ament. 2,158,392; May 16.
Broach device, Spiral. W. A. Hart. 2,158,720; May 16.
Broom rotary road. E. F. Hilliard. 2,158,967; May 16.
Bucket, Dragline. H. J. Atkins and C. M. Conner. 2,158,061; May 16.
Building block. G. D. King and G. L. Phelps. 2,158,982; May 16.
Building block. E. E. Slick. 2,158,089; May 16.
Building construction. J. C. Morrell. 2,158,081–2; May 16.
Burette. M. F. Betzold, C. Rascher, and C. A. Torp. 2,158,102; May 16.
Burner: *See*—
  Fuel burner.
Burner for absorbtion refrigeration apparatus, Liquid fuel. G. Grubb. 2,158,282; May 16.
Bus ducts, Making. W. H. Frank. 2,158,656; May 16.
Cabinet. F. B. Wiseman. 2,158,713; May 16.
Cabinet assembly, Knock-down. K. E. B. Stenberg. 2,158,641; May 16.
Cabinet bath apparatus. G. A. Schulte. 2,158,681; May 16.
Cabinet for powdering and turning inside-out of rubber gloves. R. V. and K. Foster. 2,158,575; May 16.
Cable compound, Fireproof. J. G. Ford and C. F. Hill. 2,158,281; May 16.
Cable system, Undersea. W. M. Bishop. 2,158,492; May 16.
Cake batter and shortening for making cake. B. R. Harris. 2,158,775; May 16.
Calcite, Concentrating. A. Crago. 1,158,220; May 16.
Calculating machine. R. L. Muller. 2,158,142; May 16.
Calendar, Mechanical. G. D. Rogers. 2,158,553; May 16.
Can: *See*—
  Paper can.
Can filling machine. C. H. Ayars. 2,158,767–9; May 16.
Candle extinguisher. P. D. Cormier. 2,158,744; May 16.
Cap: *See*—
  Closure cap.
  Paste tube cap.
  Ice cap.
Car: *See*—
  Articulated car.
Carbides, Production of hard. O. Meyer. 2,158,520; May 16.

Carburator. H. G. Renner. 2,158,777; May 16.
Carburetor air intake system. J. F. Priess. 2,158,380; May 16.
Carcass treatment. L. L. Cadwell. 2,158,106; May 16.
Cards from a stack, Feeding of. G. D. Horgan. 2,158,505; May 16.
Carrier: *See*—
Battery carrier.
Carrier and fastener means. C. Kehrer. 2,158,661; May 16.
Carrier for milk products. R. E. Brisbane. 2,158,217; May 16.
Carrier mechanism, Three. F. C. Good. 2,158,497; May 16.
Carton, Divisible. W. B. Jones. 2,158,072; May 16.
Carton structure. R. B. Boyle. 2,158,216; May 16.
Case: *See*—
Advertising display case. Counter or display case.
Cash register, accounting, and the like machine. F. Ranglack. 2,158,150; May 16.
Casing cutter. J. J. McCann. 2,158,243; May 16.
Casing for textile stretching apparatus, Roller. H. W. Mettler. 2,158,631; May 16.
Cast iron welding rod. C. O. Burgess. 2,158,105; May 16.
Catalyst. J. R. Rose. 2,158,154; May 16.
Cathode ray tube. P. T. Farnsworth. 2,158,279; May 16.
Cathode ray tube. N. von Korshenewsky. 2,158,314; May 16.
Cementing process. R. B. Ayer. 2,158,845; May 16.
Center iron bearing. W. C. Trout. 2,158,161; May 16.
Chain: *See*—
Driving chain.
Chair: *See*—
Barber's chair.
Chair. A. E. Elmore. 2,158,225; May 16.
Chair. G. D. Wood. 2,158,453; May 16.
Changeable sign. R. A. Gray. 2,158,902; May 16.
Check for doors and the like. R. E. Sheehe. 2,158,257; May 16.
Choke, Automatic. S. F. Hunt. 2,158,424; May 16.
Chuck jaw, Automatic. C. O. Webster. 2,158,490; May 16.
Cigarette package. G. S. Stratton. 2,158,971; May 16.
Circuit: *See*—
Control circuit. Impulse measuring circuit.
Electric circuit. Electric valve circuit.
Circuit breaker. W. T. Allen. 2,158,317; May 16.
Circuit breaker. V. Weber. 2,158,711; May 16.
Circuit breaker having butt contacts. G. E. Whitehead. 2,158,920; May 16.
Circuit breaker mechanism, Timed. I. E. McCabe. 2,158,515; May 16.
Circuit control, Parallel. P. Mathews. 2,158,880; May 16.
Circuit controlling device. C. W. Kuhn. 2,158,824; May 16.
Circuits, High-frequency radio amplifying. W. J. Polydoroff. 2,158,251; May 16.
Clay product and preparing same. W. T. Maloney. 2,158,987; May 16.
Cleaner: *See*—
Dust mop cleaner. Window cleaner.
Vacuum cleaner.
Cleaning and apparatus therefor, Dry. W. T. Reddish. 2,158,614; May 16.
Clip-attaching device. G. A. Woodruff. 2,158,168; May 16.
Clock. M. McLelland and C. P. de Jonge. 2,158,586; May 16.
Clock, Synchronized escapement. H. E. Warren. 2,158,888; May 16.
Clocks, Controlling pendulum. H. Junghans. 2,158,723; May 16.
Closing and checking unit. F. C. Garrison. 2,158,417; May 16.
Closure cap. W. P. White. 2,158,683; May 16.
Closure for receptacles. C. S. Baron. 2,158,923; May 16.
Clothespin. D. W. Hildebrant. 2,158,937; May 16.
Clothes pin. M. V. Robbins. 2,158,592; May 16.
Clutch. R. E. Keller. 2,158,544; May 16.
Clutch. T. W. Pallister and H. W. Leman. 2,158,677; May 16.
Clutch mechanism. V. H. Meyer. 2,158,192; May 16.
Clutch mechanism, Friction. C. R. Spase. 2,158,440; May 16.
Clutch plate. A. Mistretta, C. A. Blomberg, and M. Willene. 2,158,244; May 16.
Clutch steering mechanism for tractors. R. Gustafson. 2,158,935; May 16.
Cock, Ball. A. C. Arbogast. 2,158,267; May 16.
Cock, Safety. A. Felks. 2,158,574; May 16.
Coffee brewing device. C. M. Nevins. 2,158,587; May 16.
Coil and the like, Evaporator. J. F. Furry. 2,158,324; May 16.
Coil mounting. H. F. Oliver. 2,158,969; May 16.
Coils, Method of and machine for winding. F. Martindell. 2,158,827; May 16.
Coin and slug separating device. W. Patzer and W. A. Tratsch. 2,158,909; May 16.
Coke making process. M. D. Curran. 2,158,816; May 16.
Coke oven door. W. Beimann. 2,158,491; May 16.
Colors or color tones from pictures comprising several colors or color tones, especially for reproduction purposes, Selecting single. L. Szigeti. 2,158,951; May 16.
Compact. E. A. Lemire and E. Steiner. 2,158,548; May 16.
Complementary rotary engine. J. C. Bullen. 2,158,532; May 16.
Composition adapted to liberate free iodine. E. L. Werft. 2,158,446; May 16.
Compressor, Gyratory. J. G. De Remer and G. W. Dunham. 2,158,109; May 16.
Compressor, Rotary. P. E. Good. 2,158,933; May 16.
Condensation products of the perylene series. H. Nereshelmer and A. Vilsmeier. 2,158,296; May 16.
Condenser apparatus. U. A. Taddiken. 2,158,842; May 16.
Condenser of the trimmer type, Three-section. F. N. Jacob and M. J. Kirk. 2,158,127; May 16.
Connection device. L. X. Antelme. 2,158,890; May 16.
Connector block. M. Rose and N. A. Judsen. 2,158,305; May 16.
Contact device. R. Van Wynen. 2,158,164; May 16.
Container: *See*—
Watch container.
Container. C. H. Gullion and C. P. Evans. 2,158,118; May 16.
Container. M. P. Link. 2,158,549; May 16.
Container. I. L. Wilcox. 2,158,448; May 16.
Container and applicator for cosmetics. M. M. Gordon. 2,158,901; May 16.
Container construction. O. W. Wentz. 2,158,097; May 16.
Container sealing method. C. T. Walter. 2,158,166; May 16.
Containers, Treating paper. R. K. Reed. 2,158,524; May 16.
Control circuit. W. A. Ray. 2,158,706; May 16.
Control device for can making machinery. V. T. Grover. 2,158,069; May 16.
Control for concrete pavers, Automatic. A. E. Lundbye. 2,158,942; May 16.
Control system. H. Déglon. 2,158,108; May 16.
Control system for steam jet refrigerating mechanism. J. E. Haines. 2,158,659; May 16.
Control system for submersible motors and the like. E. Mendenhall and J. B. Van Horn. 2,158,471–2; May 16.
Controller. A. H. Lamb. 2,158,464; May 16.
Controlling device. H. Lemp. 2,158,133; May 16.
Conversion unit. H. D. Bartlett. 2,158,770; May 16.
Convertible rifle rack. K. Fischbacher. 2,158,623; May 16.
Conveyer, Articulated resilient. A. M. Hahn. Articulated resilient conveyer. 2,158,364; May 16.
Conveying mechanism. F. A. Browne. 2,158,781; May 16.
Conveyor switch. E. H. Maltby. 2,158,482; May 16.
Cooker. M. F. Thau. 2,158,341; May 16.
Cooling means for mirrors used with arc lamps. W. Petermann. 2,158,886; May 16.
Copper refining apparatus. R. P. Heuer. 2,158,625; May 16.
Cork composition. C. E. McManus. 2,158,469; May 16.
Corn cutter. H. C. Horstmann, Jr. 2,158,541; May 16.
Corrosion of metallic objects, Preventing. L. B. Beckwith. 2,158,771; May 16.
Cotton drying and conditioning apparatus. J. J. Fowler. 2,158,752; May 16.
Counter, Display. R. Whitsett. 2,158,447; May 16.
Counter or display case, Show. B. Hagelin and B. Kock. 2,158,420; May 16.
Coupling: *See*—
Elastic coupling. Shaft coupling.
Flexible coupling. Swivel pipe coupling.
Heat insulating coupling.
Coupling. J. P. Eastman. 2,158,620; May 16.
Coupling. M. Kuestermeier. 2,158,757; May 16.
Coupling construction. J. P. Eastman. 2,158,619; May 16.
Coupling device. K. Beyerle. 2,158,103; May 16.
Coupling for vehicles, Electric. C. F. Schwein. 2,158,385; May 16.
Coupling pin. H. Landis. 2,158,941; May 16.
Course finding method and apparatus. P. E. Köster. 2,158,584; May 16.
Cowling, Controllable. K. A. Browne. 2,158,270; May 16.
Cowling, Controllable. R. Chilton. 2,158,273; May 16.
Crate. I. E. Schopmeyer. 2,158,256; May 16.
Crusher. H. H. Rumpel. 2,158,778–9; May 16.
Cup, Measuring. I. W. Ligon. 2,158,704; May 16.
Curtain. A. E. Phelan. 2,158,762; May 16.
Cut-off, Automatic. A. V. Salisbury. 2,158,309; May 16.
Cutter: *See*—
Casing cutter. Dough cutter.
Corn cutter.
Cutting machine for stove or other material. C. B. Lansing. 2,158,629; May 16.
Dam. D. Smith. 2,158,205; May 16.
Dance steps, Recording and illustrating. J. F. Montine. 2,158,475; May 16.
Defecator. W. C. Groeniger. 2,158,362; May 16.
Deflector arrangement for ventilating systems, Dual. A. Feinberg. 2,158,413; May 16.
Degreasing machine. G. Edhofer and G. Wolff. 2,158,621; May 16.

Delayed action reversing switch. R. H. Goddard. 2,158,181; May 16.
Demonstration apparatus. F. H. Netter. 2,158,906; May 16.
Derivatives of rubber, Thermoplastic. I. Williams. 2,158,530; May 16.
Detachable drill bit. C. A. Hirschberg. 2,158,120; May 16.
Developing device. F. Doetzel, Jr. 2,158,817; May 16.
Device for indicating the stopping point of a vehicle. W. N. Smith and W. H. Sanders. 2,158,210; May 16.
Device for placement of nipples and similar devices upon bottles. W. H. Rose. 2,158,527; May 16.
Device for rendering visible invisible rays. H. Coanda. 2,158,405; May 16.
Device for sharpening lawn mowers. R. L'Wolfe. 2,158,191; May 16.
Device for supporting packages of strand materials. B. van den Bergh. 2,158,262; May 16.
Dewatering method. D. M. Wright. 2,158,169; May 16.
Dewaxing with evaporative cooling. E. C. Knowles. 2,158,370; May 16.
Diazotype layers, Production of light-sensitive. M. P. Schmidt and G. Werner. 2,158,836; May 16.
Die for shaping tubes, Forming. H. G. Dewey. 2,158,176; May 16.
Differential mechanism. F. W. Seeck. 2,158,157; May 16.
Dispenser: *See*—
Token dispenser.
Dispensing apparatus, Portable. C. R. Yirava. 2,158,347; May 16.
Dispensing attachment for collapsible tubes. C. S. Mann. 2,158,333; May 16.
Dispensing device. M. Theodore. 2,158,916; May 16.
Display device. E. Wagner. 2,158,343; May 16.
Display device employing polarized light. E. H. Land. 2,158,129; May 16.
Distributor for fertilizer, lime, or the like. L. D. Pender. 2,158,479; May 16.
Disturbances in ionic valves by grid control, Suppressing. U. Lamm. 2,158,289; May 16.
Door: *See*—
Coke oven door.
Door tension device for motor vehicles. H. Beiersdorf. 2,158,893; May 16.
Dough cutter. A. S. T. Lagaard. 2,158,463; May 16.
Dough divider and rounder. C. B. Seem. 2,158,594; May 16.
Drill: *See*—
Electric drill.
Drilling, Apparatus for oil well. J. G. Dyer. 2,158,356; May 16.
Drilling hook. H. E. Grau and R. K. Hertel. 2,158,232; May 16.
Driving chain. B. v. Festenberg-Pakisch. 2,158,622; May 16.
Drop hammer board. T. Robinson. 2,158,834; May 16.
Dry cell. O. K. Reinhardt. 2,158,151; May 16.
Dry gas meter. E. W. Smith, A. Charles, and R. W. E. Gaskin. 2,158,839; May 16.
Drums, Closing metal. G. Brouhon. 2,158,218; May 16.
Dust mop cleaner. A. McMillan. 2,158,470; May 16.
Dyes, process and product, Direct. S. S. Rossander. 2,158,306; May 16.
Dyestuffs. N. H. Haddock and C. H. Lumsden. 2,158,283; May 16.
Dyestuffs and their manufacture, Acid anthraquinone. C. Mettler. 2,158,473; May 16.
Dyestuffs and their manufacture, Azo. A. Conzetti. 2,158,407; May 16.
Dyestuffs, Azo. C. Taube and O. Bayer. 2,158,843; May 16.
Ecclesiastical device. R. F. Brennan. 2,158,531; May 16.
Elastic coupling. J. Baumann. 2,158,847; May 16.
Electric circuit. J. W. Butler. 2,158,926; May 16.
Electric circuit breaker. G. Balachowsky. 2,158,846; May 16.
Electric control system. H. W. Lord. 2,158,878; May 16.
Electric control system. R. S. MacFarlane. 2,158,135; May 16.
Electric drill. F. V. Forss. 2,158,228; May 16.
Electric equipment. J. D. Stacy. 2,158,868; May 16.
Electric lamp. H. D. Blake. 2,158,849; May 16.
Electric lamp. A. G. Mueller. 2,158,884; May 16.
Electric motor. E. F. Kohl. 2,158,823; May 16.
Electric plug. A. Carlino. 2,158,691; May 16.
Electric power system. R. S. MacFarlane. 2,158,136; May 16.
Electric protective system and apparatus. S. Horikoshi. 2,158,859; May 16.
Electric switch. J. G. Jackson. 2,158,369; May 16.
Electric switch. R. Popp. 2,158,084; May 16.
Electric switch. E. H. Taylor. 2,158,387; May 16.
Electric valve circuit. H. L. Palmer. 2,158,885; May 16.
Electrical sequencing control. A. L. Sweet. 2,158,887; May 16.
Electrode terminal construction. A. Georgiev. 2,158,363; May 16.
Electrolytic device. J. L. Collins and R. Teeple. 2,158,981; May 16.
Electrolytic process for the manufacture of litharge. R. G. Bowman and W. J. Knox, Jr. 2,158,269; May 16.
Electromagnetic contactor. W. C. Stevens. 2,158,841; May 16.
Electron discharge device. W. L. Meier. 2,158,564; May 16.
Electron discharge device. G. D. O'Neill. 2,158,665; May 16.
Electron discharge device. J. W. Strange and W. H. Connell. 2,158,640; May 16.
Electron discharge device. P. W. Willans. 2,158,450; May 16.
Emulsions, Producing photographic. B. Claus. 2,158,219; May 16.
Enameling stock and the like, Producing vitreous. G. L. von Planck. 2,158,443; May 16.
Engine: *See*—
Complementary rotary engine. Internal combustion engine.
Heavy fuel engine. Sleeve valve engine.
Engine control, Automatic. M. S. Curtis. 2,158,572; May 16.
Envelope. R. L. Gray. 2,158,233; May 16.
Envelope, Multiform. V. J. Sawdon. 2,158,528; May 16.
Enzymes, Restraining or preventing the action of proteolytic. L. Elion. 2,158,411; May 16.
Eraser for typewriters, Mechanically operated. C. T. Collins. 2,158,534; May 16.
Ester condensations. V. L. Hansley. 2,158,071; May 16.
Esters of glycol and acylated hydroxy acids. T. F. Carruthers and C. M. Blair. 2,158,107; May 16.
Ethers, Hydroxy-alkyl. G. H. Coleman and J. W. Zemba. 2,158,960; May 16.
Ethers of 4-tertiary-alkyl phenols, Hydroxy-alkyl. G. H. Coleman and J. W. Zemba. 2,158,958; May 16.
Ethers of substituted phenols, Hydroxy-alkyl. G. H. Coleman and J. W. Zemba. 2,158,957; May 16.
Ethers of tertiary-alkyl phenols, Hydroxy-alkyl. G. H. Coleman and J. W. Zemba. 2,158,959; May 16.
Ethylenes, Preparing chlorinated. G. Basel and E. Schaeffer. 2,158,213; May 16.
Evacuating economizer for clothes pressing machines. S. P. Densmore. 2,158,617; May 16.
Evaporator. A. S. Pierrel. 2,158,946; May 16.
Evaporator unit for refrigeration purposes. S. A. and A. S. Limpert. 2,158,877; May 16.
Excavator. D. H. Young. 2,158,348; May 16.
Expansion unit, Dry. L. Saha. 2,158,382; May 16.
Eye, Apparatus for correcting the defects of accommodation of the. E. H. Tartrais. 2,158,642; May 16.
Fabric: *See*—
Glass fabric. Spiral fabric.
Open mesh fabric.
Fabric article, Adjustable. C. Kaplan. 2,158,456; May 16.
Fabric, method, and machine, Knitted. R. H. Lawson and W. Armitage. 2,158,189; May 16.
Fabrics and the product thereof, Treatment of textile. C. Dreyfuss and H. Platt. 2,158,110; May 16.
Fabrics, Means and method for the manufacture of decorative needled. T. C. Arthur. 2,158,533; May 16.
Fabrics, Producing textile. H. Platt. 2,158,147; May 16.
Fabrics, Production of stiffened. D. Finlayson and H. Crawshaw. 2,158,112; May 16.
Fastener: *See*—
Lapel fastener. Slip-cover fastener.
Fastener and making it, Slide. T. G. Miller. 2,158,079; May 16.
Fastener element and producing it. T. G. Miller. 2,158,078; May 16.
Fastening device for beehives. B. L. Flanagan. 2,158,067; May 16.
Faucet, Water. A. Bamberger. 2,158,566; May 16.
Feeder: *See*—
Hog feeder. Molasses stock feeder.
Feeding device. J. R. Elsey. 2,158,226; May 16.
Feeding mechanism. M. J. Milmoe. 2,158,335; May 16.
Fence tool. W. H. Koch. 2,158,128; May 16.
Fertilizer, Producing humus. C. S. Townsend. 2,158,918; May 16.
Fibers, Method and apparatus for the production of artificial. A. Formhals. 2,158,416; May 16.
Fibers, Producing artificial. A. Formhals. 2,158,415; May 16.
Figures and the like on transparent bodies, Displaying A. L. Normandi. 2,158,633; May 16.
Film for photographic color process. J. G. Capstaff. 2,158,174; May 16.
Film, Photographic. E. L. Baxter. 2,158,173; May 16.
Filter. R. R. Layte and M. M. McCoy. 2,158,512; May 16.
Firearm. E. Pugsley. 2,158,148–9; May 16.
Fishing reel. W. F. Watson. 2,158,597; May 16.
Fishing rod. L. J. Ford. 2,158,932; May 16.
Fishhook. L. J. Eppel. 2,158,794; May 16.
Flap and aileron control system. J. G. Taylor. 2,158,092; May 16.
Flexible coupling. E. B. Anderson. 2,158,212; May 16.
Fluids, Mixing and control device for. W. S. Trader, C. H. Hamilton, and W. H. Finley. 2,158,342; May 16.
Fog inhibitor for photographic emulsions. S. E. Sheppard and W. Vanselow. 2,158,204; May 16.
Folding box. R. W. Hoag. 2,158,578; May 16.
Folding machine, Automatic. R. W. Charles, J. George, and P. A. Spilios. 2,158,896; May 16.

Folding table. W. W. Swett. 2,158,950; May 16.
Food materials, Treatment of. W. W. Cowgill. 2,158,354; May 16.
Form, Dressmaker. F. Brown. 2,158,895; May 16.
Form for making rubber garments. A. N. Spánel. 2,158,206; May 16.
Formation display device. V. C. Hurt. 2,158,368; May 16.
Formation tester. L. Bowen. 2,158,569; May 16.
Frame: *See*—
Bag frame.
Frame member, Rear. B. J. Anderson. 2,158,170; May 16.
Fuel burner. K. K. Nahigyan. 2,158,522; May 16.
Fuel burner, Pulverized. K. K. Nahigyan. 2,158,521; May 16.
Fuel control means, Viscosity regulated fluid. L. L. Finnigan. 2,158,359; May 16.
Fuel, Motor.. E. V. Bereslavsky. 2,158,050; May 16.
Fuel, Production of motor. H. V. Atwell and M. R. Mandelbaum. 2,158,559; May 16.
Furnace: *See*—
Oven-filled furnace. Regenerating furnace.
Furnace assembly. R. B. Rock. 2,158,338; May 16.
Furnace construction, Blast. S. L. Mamula. 2,158,943; May 16.
Furnaces, Operating cupola. K. Lauer. 2,158,510; May 16.
Fuse block and parts thereof. H. J. L. Frank. 2,158,655; May 16.
Fuse construction. W. O. Schultz. 2,158,638; May 16.
Fuse switch. T. F. Johnson. 2,158,722; May 16.
Garment. R. W. Hill. 2,158,797; May 16.
Garment, Foundation. E. R. Kaupp. 2,158,506; May 16.
Garment hanger. H. A. Grotte and S. Richardson. 2,158,539; May 16.
Garment hanger. H. W. Ligon. 2,158,465; May 16.
Garment, Rubber. A. N Spánel. 2,158,207; May 16.
Gas-mask eyepiece mounting. J. B. Dym. 2,158,693; May 16.
Gas regulator. M. H. Grove. 2,158,068; May 16.
Gas safety heater. R. Wacek. 2,158,643; May 16.
Gas supply apparatus. G. M. Booth. 2,158,976; May 16.
Gas supply apparatus. G. D. Peet. 2,158,985; May 16.
Gauge: *See*—
Pick-off gauge.
Gauging device. W. E. Little. 2,158,466; May 16.
Gear: *See*—
Retractable landing gear.
Gear box. J. H. Bradbury. 2,158,054; May 16.
Gelatin treatment. D. P. Grettie. 2,158,117; May 16.
General utility tool. J. A. Wardle. 2,158,444; May 16.
Generator: *See*—
Steam generator.
Geological explorations, Method and apparatus for making. H. R. Prescott. 2,158,198; May 16.
Glass, Beverage. E. C. Godfrey. 2,158,230; May 16.
Glass fabric, Brake lining material. O. Rasmussen. 2,158,337; May 16.
Glass, Method of and apparatus for drawing. W. O. Amaler. 2,158,669; May 16.
Glider. A. P. O'Hare. 2,158,377; May 16.
Grille making apparatus. G. R. Goldthwaite. 2,158,229; May 16.
Grinder, Compost. H. J. Mankoff. 2,158,240; May 16.
Grinder, Power. R. A. Wesche. 2,158,556; May 16.
Guard for rock drills. F. M. Slater. 2,158,529; May 16.
Guard, Vehicle. J. W. Altmyer. 2,158,813; May 16.
Gyroscopic steering apparatus. R. H. Goddard. 2,158,180; May 16.
Hairsprings and like devices, Apparatus and method for testing. R. R. Lawson, C. L. Bennett, and F. D. Urie. 2,158,725; May 16.
Hair waving device. L. M. Chandonnet. 2,158,570; May 16.
Hair-waving apparatus. R. G. Leland. 2,158,800; May 16.
Hammer, Pneumatic. F. H. Borm. 2,158,567–8; May 16.
Hand brake. R. W. Burnett. 2,158,055; May 16.
Handle: *See*—
Parcel handle. Tool handle.
Handle mounting for window operating means and the like. M. B. Andrie. 2,158,789; May 16.
Handysets and piles and apparatus therefor, Separating. J. R. Morrison and R. E. Babcock. 2,158,727; May 16.
Hanger: *See*—
Garment hanger. Pipe hanger.
Hardware, Multiple sash window. E. F. Wiley. 2,158,714; May 16.
Harrow. J. Dinwiddie. 2,158,746; May 16.
Hat dusting appliance. W. Ollinger. 2,158,143; May 16.
Hay unloader. G. N. Tolsted. 2,158,917; May 16.
Head-bar organization for Venetian blinds. H. K. Lorentzen. 2,158,826; May 16.
Header feed evaporator. F. R. Erbach. 2,158,792; May 16.
Heat exchanger. J. C. White. 2,158,809; May 16.
Heat exchangers, Making. L. P. Saunders. 2,158,383; May 16.
Heat insulating coupling. R. H. Goddard. 2,158,182; May 16.
Heater: *See*—
Gas safety heater. Orchard heater.
Hot water heater. Windshield heater.
Heating apparatus, Electric. E. N. Calhoun. 2,158,603–4; May 16.
Heating apparatus. E. L. Wiegand. 2,158,605; May 16.
Heating apparatus and making the same, Electrical. E. L. Wiegand. 2,158,601; May 16.
Heating apparatus, Electrical. E. N. Calhoun. 2,158,602; May 16.
Heating device. C. J. Sucharski and A. W. Lees. 2,158,258; May 16.
Heating mechanism, Electrical. J. G. Sola. 2,158,733; May 16.
Heating unit and making the same. E. L. Wiegand. 2,158,600; May 16.
Heavy fuel engine. H. V. Honn. 2,158,124; May 16.
Hides, skins, and leather, Treatment of. W. Kritchevsky. 2,158,627; May 16.
Hitch. N. J. Alexander. 2,158,316; May 16.
Hog feeder. W. C. Reynolds. 2,158,253; May 16.
Holder: *See*—
Label and index holder. Key holder.
Necktie holder.
Hook: *See*—
Drilling hook. Spring hook.
Horse, Supporting. P. W. Hussey. 2,158,939; May 16.
Hose. D. B. Gish. 2,158,538; May 16.
Hot water heater. J. Illieman. 2,158,122; May 16.
Humidifier. C. Jensen. 2,158,543; May 16.
Hydraulic servo system. S. C. Atkins and H. E. Scofield. 2,158,558; May 16.
Hydrocarbons for the production of liquid aromatic hydrocarbons, Treatment of gaseous. R. M. Isham and M. R. Ryan. 2,158,582; May 16.
Hydrocarbons suitable for motor fuel, Producing. C. C. Chaffee. 2,158,353; May 16.
Hydrogen peroxide, Production of. H.-J. Riedl and G. Pfleiderer. 2,158,525; May 16.
Ice cap. R. G. Culp. 2,158,571; May 16.
Ignition booster system with automatic starting control, Automotive. E. A. McMurtry. 2,158,634; May 16.
Illuminated sign. O. E. Mutti. 2,158,195; May 16.
Illuminated hand tool. A. L. Stowell. 2,158,970; May 16.
Illuminator, Rifle front sight. H. B. Searcy. 2,158,915; May 16.
Image reproduction. W. D. Coolidge. 2,158,853; May 16.
Impact tool. R. H. Pott. 2,158,303; May 16.
Impulse measuring circuit. W. R. Koch. 2,158,285; May 16.
Indexing mechanism. H. B. Kyriakides. 2,158,188; May 16.
Indicating instrument. W. W. Braswell. 2,158,925; May 16.
Indicator: *See*—
Liquid level indicator. Street indicator.
Speed ratio indicator. Volume indicator.
Inductance coil, High frequency. W. D. Loughlin. 2,158,613; May 16.
Inductive tuning system. W. J. Polydoroff. 2,158,252; May 16.
Injection rate control for fuel pumps. B. T. Insley. 2,158,326; May 16.
Ink fountain typing machine. G. E. Pelton. 2,158,944; May 16.
Inking arrangement for rotary printing presses. W. N. Misuraca. 2,158,474; May 16.
Insecticide and making the same. S. E. Marsico. 2,158,241; May 16.
Insecticide distributor, Ambulatory. J. P. Fullilove. 2,158,115; May 16.
Interlocking system for railroads. F. Benedict. 2,158,974–5; May 16.
Internal combustion engine. G. Grover, Jr. 2,158,419; May 16.
Intervaltimeter. L. P. Dorsett. 2,158,654; May 16.
Iron in cupola furnaces, Production of cast. K. Lauer. 2,158,511; May 16.
Jig, Trot line. O. W. Purdum. 2,158,947; May 16.
Jimmyproof lock. S. Segal. 2,158,088; May 16.
Joint: *See*—
Road joint.
Key cutting machine. P. W. Olson. 2,158,761; May 16.
Key holder. T. Gosselin. 2,158,964; May 16.
Knitting machines, Take-up mechanism for. J. A. Firsching. 2,158,177; May 16.
Label and index holder. C. R. Chamberlin. 2,158,402; May 16.
Lamp: *See*—
Bed lamp. Reflector bulb lamp.
Electric lamp.
Lamp for sound recorders and reproducers, Exciter. L. T. Sachtleben. 2,158,308; May 16.
Lapel fastener. M. H. Gronauer. 2,158,719; May 16.
Lapping or abrading tool. W. E. Hoke. 2,158,123; May 16.
Leather pulp and products made therefrom. J. A. Wilson. 2,158,265; May 16.
Lens. W. Schade. 2,158,201; May 16.
Lens for automobiles, Auxiliary fog. C. A. Hirschberg. 2,158,121; May 16.
Lens system. C. W. Frederick and W. Schade. 2,158,178; May 16.
Lens system. W. Schade. 2,158,202; May 16.
Lever, Safety emergency brake. F. D. Wenn. 2,158,263; May 16.
Lift structure. J. F. Carter. 2,158,399; May 16.
Lifter: *See*—
Shutter lifter.
Light for golf clubs. M. Aitken. 2,158,211; May 16.

Light polarizer. E. H. Land. 2,158,130; May 16.
Lighting device. C. Bol and A. Linnemans. 2,158,215; May 16.
Lighting, Passenger vehicle. L. C. Doane. 2,158,653; May 16.
Line for use on radio and other high frequencies, Artificial. J. D. Brailsford and R. F. O'Neill. 2,158,493; May 16.
Liner for ball mills. E. M. Houghton. 2,158,187; May 16.
Liner setter. C. H. Collett and A. R. Thompson. 2,158,406; May 16.
Link, Connecting. H. G. Shakespeare. 2,158,838; May 16.
Liquid dispensing apparatus. H. E. Rubens. 2,158,948; May 16.
Liquid level indicator. M. B. Hall. 2,158,785; May 16.
Liquids, Method of and apparatus for packaging. F. M. Schukraft. 2,158,837; May 16.
Load transferring and aligning device. B. C. Wilcox. 2,158,953; May 16.
Lock: *See*—
Automobile lock. Tumbler lock.
Jimmyproof lock. Window lock.
Lock. H. E. Knoll. 2,158,983; May 16.
Lock system for automobiles and the like. R. C. Wilson. 2,158,451; May 16.
Lock washer. C. G. Olson. 2,158,378; May 16.
Locking apparatus for vehicle body doors. B. Walker. 2,158,736; May 16.
Locking, opening, and closing device. G. Madland. 2,158,336; May 16.
Lubricant. J. H. Wernitz. 2,158,096; May 16.
Lubricating device. J. O. Lewis. 2,158,876; May 16.
Lubricating device. C. R. Manning. 2,158,879; May 16
Lubrication, Bearing. H. F. Schmidt. 2,158,835; May 16.
Lubrication, Bearing. W. A. Wilson and H. F. Schmidt. 2,158,810; May 16.
Luggage, Hand. J. Peshek and G. H. Wheary. 2,158,986; May 16.
Lure, Fish. F. P. Bouton. 2,158,924; May 16.
Machine for cutting, folding, and pressing labels. L. Oskow. 2,158,144; May 16.
Machine for cutting sheet glass. F. Goffaux. 2,158,900; May 16.
Machine for feeding sheets, labels, and the like. P. W. Fleischer. 2,158,280; May 16.
Machine for making a barrel. R. A. Terrell. 2,158,312; May 16.
Machine for preparing corn for canning on the cob. F. W. Douthitt. 2,158,977; May 16.
Machine for use in pressing soles on shoe bottoms. C. H. Pepin. 2,158,196; May 16.
Magnesium, Producing. R. C. Kirk. 2,158,786; May 16.
Magnet body and making the same. V. E. Legg. 2,158,132; May 16.
Magnetic field direction finder. U. Guerra. 2,158,500; May 16.
Make-ready and proof machine. W. F. Huck. 2,158,237; May 16.
Mantle, Incandescent. H. Rinnman. 2,158,304; May 16.
Match book making machine. W. W. Allen. 2,158,350; May 16.
Material, Apparatus for the manufacture or reduction of laminated sheet. T. A. Hodgdon. 2,158,754; May 16.
Material for use in making paper bags or wrappers, Laminated sheet. T. A. and P. E. Hodgdon. 2,158,755; May 16.
Material, Fusible. F. E. Sutter. 2,158,870; May 16.
Material, Treatment of sheet. F. K. Bezzenberger. 2,158,560; May 16.
Materials, Producing magnetic. G. H. Cole and R. L. Davidson. 2,158,065; May 16.
Materials, Treatment of textile. H. Corteen, R. P. Foulds, and F. C. Wood. 2,158,494; May 16.
Measuring instrument. G. D. Webber. 2,158,555; May 16.
Meat mold. J. Kipper. 2,158,702; May 16.
Meat tenderer. R. Sybenga. 2,158,766; May 16.
Mercury boiler. W. L. R. Emmet. 2,158,856; May 16.
Metal and the like, Cleaning sheet. W. H. Broadfield. 2,158,063; May 16.
Metal composition. S. Ruben. 2,158,864; May 16.
Metal forming working device. C. P. Chamberlin. 2,158,400; May 16.
Metal from a liquid, Method and apparatus for the recovery of. A. B. Doran. 2,158,410; May 16.
Metal, Method and apparatus for treating. F. C. Biggert, Jr., and C. F. Buente. 2,158,687; May 16.
Metal, Method and solution for pickling and cleaning. N. E. Cook. 2,158,992; May 16.
Metal spoked wheel. J. T. Trumble. 2,158,709; May 16.
Metal, Treating. M. Donchi. 2,158,278; May 16.
Metals and minerals in the ground, Locating. N. Brundin. 2,158,980; May 16.
Metallic sheets, Method of and apparatus for cleaning. R. M. Fenton. 2,158,694; May 16.
Metals, Apparatus for alloying. D. V. McParlin. 2,158,517; May 16.
Metals from black sand, Apparatus for separating precious. C. C. Nutter. 2,158,551; May 16.
Meter: *See*—
Dry gas meter.
Metering apparatus. G. Raymond. 2,158,381; May 16.
Methyl-vinyl-ketone, Preparing. H. Lange and O. Horn. 2,158,290; May 16.
Milling products, Method and composition for improving. F. H. Penn. 2,158,588–9; May 16.
Molasses, Feeding liquid. K. P. Teske. 2,158,094; May 16.
Molasses stock feeder, Liquid. K. P. Teske. 2,158,093; May 16.
Mold: *See*—
Meat mold.
Motor: *See*—
Electric motor.
Motor. J. Oster. 2,158,145; May 16.
Motor vehicle. W. R. Griswold. 2,158,235; May 16.
Mounting: *See*—
Gas-mask eyepiece mount- Ophthalmic mounting.
ing.
Mounting for toy airplanes, Propeller. N. E. Walker. 2,158,344; May 16.
Multiplier, Ultra-high-frequency. K. E. Fritz. 2,158,114; May 16.
Musical instrument, Stringed. J. Dopyera. 2,158,322; May 16.
Necktie holder. E. B. Blamenser. 2,158,616; May 16.
Nest structure. A. N. Plante. 2,158,831; May 16.
Nitro derivatives of para alkyl suphoxides of diphenylamines. W. Zerweck and H. Ritter. 2,158,648; May 16.
Nitrogen compounds, substituted by the aldehyde group and making same, Partially hydrogenated heterocyclic. N. Rob. 2,158,526; May 16.
Nodules or pellets, Apparatus for making. T. E. Lloyd. 2,158,513; May 16.
Nut, Clinch-on. F. N. Ross. 2,158,989; May 16.
Oestrus-promoting substance from the anterior lobes of the hypophysis and preparing it. W. Ludwig. 2,158,788; May 16.
Oil case draining and cleaning apparatus. J. H. Rinehart. 2,158,914; May 16.
Oil conversion, Hydrocarbon. J. G. Alther. 2,158,812; May 16.
Oil conversion, Hydrocarbon. C. P. Dubbs. 2,158,962; May 16.
Oil, Dewaxing. D. E. Carr and M. L. Wade. 2,158,671–2; May 16.
Oil, Lubricating. C. C. Towne. 2,158,389; May 16.
Oil, Manufacture of lubricating. F. X. Govers. 2,158,360–1; May 16.
Oil or fat containing substances and the like, Extracting. J. Reichert. 2,158,427; May 16.
Oil refining system. W. T. Hancock. 2,158,365; May 16.
Oil sampler. T. L. Renfro. 2,158,803; May 16.
Oils and fats, Bleaching. W. M. Urbain and L. B. Jensen. 2,158,163; May 16.
Oils, Conversion of hydrocarbon. J. G. Alther. 2,158,811; May 16.
Oils, Conversion of hydrocarbon. K. Swartwood. 2,158,840; May 16.
Oils, Cracking. W. K. Holmes. 2,158,504; May 16.
Oils, Inhibited motor. R. Rosen. 2,158,668; May 16.
Oils, Recovery of essential. C. D. Barnes and W. A. S. Wright. 2,158,670; May 16.
Oils, Soluble. D. R. Merrill. 2,158,374; May 16.
Oils, Treating. S. E. Campbell. 2,158,690; May 16.
Oils, Vacuum steam distillation of heavy. E. G. Ragatz. 2,158,425; May 16.
Open mesh fabric. H. E. White. 2,158,390; May 16.
Opener and spout, Receptacle. J. K. M. Harrison. 2,158,502; May 16.
Opener, Can. S. Bloomfield. 2,158,319; May 16.
Ophthalmic mounting. E. M. Splaine. 2,158,159; May 16.
Optical system and adjustment thereof. L. T. Sachtleben. 2,158,307; May 16.
Orchard heater. R. G. Pheysey. 2,158,636; May 16.
Ores, Apparatus for treating complex. G. W. Buchanan. 2,158,689; May 16.
Ornament, Wheel. H. J. Horn. 2,158,126; May 16.
Oscillator, Temperature compensated. P. D. Andrews. 2,158,844; May 16.
Oven apparatus, Coke. B. J. C. van der Hoeven. 2,158,710; May 16.
Oven, Chamber. C. Otto. 2,158,666; May 16.
Oven control. C. Thiem. 2,158,160; May 16.
Oven-fired furnace. P. Stewart. 2,158,765; May 16.
Oxidation products of paraffin hydrocarbons, Manufacture of. C. Beck and F. Kremp. 2,158,650; May 16.
Oxygen, Method and apparatus for evaporating liquid. J. A. Mathis and R. W. Milan. 2,158,458; May 16.
Package. M. Knorpp. 2,158,756; May 16.
Packaging apparatus. L. E. Davies. 2,158,675; May 16.
Packing, Pipe joint. J. E. Miller. 2,158,829; May 16.
Paint and the like, Device for dispensing and mixing. N. Grubelic. 2,158,773; May 16.
Paint dispensing machine. N. Grubelic. 2,158,774; May 16.
Panel and support therefor. R. W. Shannon. 2,158,732; May 16.
Panel, Distribution. W. H. Frank, J. A. Messing, and C. T. Hollingsworth. 2,158,658 · May 16.
Paper and cloth, Manufacture of sensitized photographic printing. J. Holden. 2,158,422; May 16.
Paper can. C. T. Walter. 2,158,165; May 16.
Parachute braking means. W. B. Schmidt. 2,158,731; May 16.

Parasiticidal control. F. F. Lindstaedt. 2,158,371; May 16.
Parcel handle. W. F. Harrison. 2,158,697; May 16.
Parking mechanism for automobiles. A. Beacher. 2,158,891; May 16.
Paste applying device. J. Crighton and R. J. A. Chandler. 2,158,495; May 16.
Paste tube cap. V. L. Miller. 2,158,375; May 16.
Pastry cone, Paper. W. H. Brooks. 2,158,688; May 16.
Patch vulcanizing apparatus. F. E. Kite. 2,158,703; May 16.
Peach pitter. R. Kleweg. 2,158,545; May 16.
Pen, Fountain. H. S. Wright. 2,158,615; May 16.
Pencil, Adjustable service. J. Sonne. 2,158,439; May 16.
Pencil attachment. E. Sanders. 2,158,431; May 16.
Pencil, Mechanical. A. H. Stenersen. 2,158,991; May 16.
Pendulum, Pumping. B. H. Ravanelli. 2,158,679; May 16.
Phonograph, Autograph. C. G. Johnson. 2,158,328; May 16.
Phonograph, Automatic. J. R. Mitchell. 2,158,295; May 16.
Photographic emulsion. F. Lierg. 2,158,825; May 16.
Photographic emulsion. C. E. K. Mees. 2,158,882; May 16.
Photographic emulsion containing supersensitized-4'-carbocyanines. C. E. K. Mees. 2,158,883; May 16.
Photographic material. A. Murray. 2,158,194; May 16.
Photographic objective. C. W. Frederick and G. H. Aklin. 2,158,179; May 16.
Photography, Stereoscopic. C. W. Kanolt. 2,158,660; May 16.
Photo-printing apparatus. M. Knobel. 2,158,903; May 16.
Pick-off gauge. G. W. von Hofe. 2,158,313; May 16.
Picture machines, Attachment for motion. E. F. Tetzlaff. 2,158,208; May 16.
Pie making machine. S. H. Pellar. 2,158,910; May 16.
Pin: *See*—
Clothes pin. Coupling pin.
Pipe: *See*—
Tobacco pipe.
Pipe hanger. O. M. Redlon. 2,158,802; May 16.
Pipe lines, Apparatus for reconditioning or painting. A. F. Hodgkins and A. M. C. Jameson. 2,158,579; May 16.
Pistol rod. W. W. Birnstock. 2,158,396; May 16.
Piston expander. C. C. Craven. 2,158,355; May 16.
Piston valve. J. A. Ramsey. 2,158,591; May 16.
Piston, Valved. A. D. Ames and J. F. Furry. 2,158,351; May 16.
Plate finishing machine. L. G. Olander. 2,158,240; May 16.
Plate, Pie. S. H. Pellar. 2,158,911; May 16.
Plug: *See*—
Electric plug. Utensil plug.
Spark plug.
Polyamides and their production. W. H. Carothers. 2,158,064; May 16.
Polymeric products, Preparing. W. Starck and H. Freudenberger. 2,158,311; May 16.
Popcorn dispensing device. R. B. Hills and H. E. Pleasant. 2,158,119; May 16.
Popper, Corn. A. S. Knapp. 2,158,460; May 16.
Post construction. A. B. Lank. 2,158,291; May 16.
Power bender. C. P. Chamberlin and J. H. Toner. 2,158,401; May 16.
Power-divided transmission. C. J. Bock. 2,158,320; May 16.
Powder refill for compacts. R. Aitken. 2,158,099; May 16.
Power plant apparatus for aircraft. B. Hoffmann. 2,158,858; May 16.
Power plant, Hydraulic. D. Gössler. 2,158,231; May 16.
Power take-off for motor vehicles. C. D. Peterson. 2,158,483; May 16.
Power transmission. F. Focher, Jr. 2,158,227; May 16.
Power transmission and speed reducer. J. F. Jaworowski. 2,158,327; May 16.
Power transmitter mechanism. R. A. Kaltwasser. 2,158,873; May 16.
Precision apparatus for machine tools. J. B. Armitage. 2,158,640; May 16.
Press: *See*—
Printing press.
Press for cable connectors, Hydraulic. E. D. Eby and T. C. Aitchison. 2,158,855; May 16.
Press for cutting cardboard and scrap ejector therefor. H. Bobst. 2,158,053; May 16.
Pressure relief means for oil circuit breaker tanks. H. J. Lingal. 2,158,293; May 16.
Pressure relief valve. A. L. Parker. 2,158,478; May 16.
Printing device for addressing machines, Thin. H. P. Elliott. 2,158,749; May 16.
Printing machine. J. E. Hagstrom. 2,158,284; May 16.
Program phase reverser. J. L. Hathaway. 2,158,820–1; May 16.
Protective means for hot-cathode rectifiers. R. C. Griffith. 2,158,934; May 16.
Printing plates, Apparatus for the manufacture of. J. H. Shea. 2,158,158; May 16.
Printing press. J. F. Jirousek. 2,158,701; May 16.
Prolamine base composition. D. W. Hansen and P. R. Shildneck. 2,158,481; May 16.
Propelling mechanism. C. W. Allen. 2,158,349; May 16.
Protective device for electrical apparatus. F. H. McIntosh. 2,158,516; May 16.
Protector for clotheslines. E. J. Holman. 2,158,659; May 16.
Pulverizer, Ore. C. R. Brown. 2,158,321; May 16.
Pump lubricating apparatus. J. M. Hait. 2,158,696; May 16.
Rack: *See*—
Convertible rifle rack.
Rack for rubber stamps or the like. S. V. Dahlin. 2,158,221; May 16.
Radiant energy, Amplification of. J. J. Daley. 2,158,961; May 16.
Radio frequency selection and oscillatory amplification element. W. C. Hill. 2,158,822; May 16.
Rail-car set-off apparatus. H. S. Brown. 2,158,352; May 16.
Rail fastening. H. H. Febrey. 2,158,057; May 16.
Rake and tedder mechanism. T. H. Oppenheim. 2,158,299; May 16.
Range. F. H. McCormick. 2,158,881; May 16.
Range construction, Cooking. R. J. Merritt. 2,158,550; May 16.
Rayon packages, Means for use in spinning and in liquid-treating tubular. C. A. Huttinger. 2,158,581; May 16.
Receiver for amplitude or phase modulated waves. M. G. Crosby. 2,158,276; May 16.
Recorder, Watch rating. B. J. McCleary. 2,158,468; May 16.
Rectifiers, Manufacture of electrical. P. H. Dowling. 2,158,748; May 16.
Reel: *See*—
Fishing reel.
Reflector bulb lamp. O. H. Biggs. 2,158,561; May 16.
Refrigerating apparatus. F. R. Erbach and R. H. Swart. 2,158,793; May 16.
Refrigerating apparatus. C. J. Gibson and J. Touborg. 2,158,718; May 16.
Refrigerating apparatus. R. E. Gould. 2,158,540; May 16.
Refrigerating apparatus. C. F. Henney. 2,158,367; May 16.
Refrigerating apparatus. H. B. Hull and A. A. McCormack. 2,158,542; May 16.
Refrigerating apparatus. H. F. Smith. 2,158,090; May 16.
Refrigeration. J. G. Bergdoll. 2,158,716; May 16.
Refrigeration system. J. R. Chamberlain. 2,158,403; May 16.
Refrigerator. W. D. Collins. 2,158,274; May 16.
Regenerative furnace. E. A. Vierow. 2,158,095; May 16.
Regenerator of a coke oven battery. C. V. McIntire. 2,158,139; May 16.
Regulating system. W. E. Jacobsen. 2,158,871; May 16.
Regulator: *See*—
Gas regulator.
Relay device. W. E. Shenk. 2,158,438; May 16.
Resilient sheet. L. A. Dunajeff. 2,158,929; May 16.
Resin, Brittle fusible. N. D. Hanson and E. Kritzmacher. 2,158,366; May 16.
Resin finishing system, Vinyl. A. K. Doolittle. 2,158,111; May 16.
Retaining device. C. E. Graham. 2,158,116; May 16.
Retractable landing gear. G. A. Page, Jr. 2,158,300; May 16.
Ribbon wiring. G. P. Schwabacher. 2,158,867; May 16.
Ring binder. C. C. Cruzan. 2,158,056; May 16.
Road joint. R. R. Robertson. 2,158,637; May 16.
Rocker arm bearing. R. Chilton. 2,158,272; May 16.
Rod: *See*—
Cast iron welding rod. Pistol rod.
Fishing rod. Welding rod.
Rollerway. J. Sammon. 2,158,865; May 16.
Roof construction, Furnace. H. A. Morlock. 2,158,759; May 16.
Rubber derivatives, Making. J. McGavack. 2,158,138; May 16.
Rubber hydrohalides and preparing the same. E. H. Morse, W. S. Johnston, and E. L. Mack. 2,158,760; May 16.
Rubber, Manufacturing expanded. F. W. Peel. 2,158,083; May 16.
Rubber sheets, Manufacturing cellular. D. Roberts and J. S. Reid. 2,158,086; May 16.
Rule, Slide. G. H. Morse. 2,158,476; May 16.
Safety and signaling apparatus, in particular for railway crossings. J. Fryba. 2,158,931; May 16.
Safety arrangement. F. D. Oesterle. 2,158,635; May 16.
Salt mixture for use as a thermophore. L. C. Drake. 2,158,854; May 16.
Salts of acetyl salicylic acid, Stabilized. J. R. Stevens. 2,158,091; May 16.
Sash balance and weather strip, Combined. A. F. Mantz. 2,158,514; May 16.
Scleroproteins and new products obtained thereby, Decomposing. W. Grassmann and H. Reich. 2,158,499; May 16.
Scrap collector for cigar machines. H. H. Wheeler. 2,158,315; May 16.

Scraper, spreader, and dumper, Combined earth. K. A. Spieth. 2,158,340; May 16.
Screen: *See*—
Separator screen.
Screening, Apparatus for and method of. W. J. Montgomery and C. F. Boyers. 2,158,080; May 16.
Scriber. F. J. Zimowske. 2,158,210; May 16.
Seal for refrigerating apparatus. E. B. Newill and A. A. McCormack. 2,158,297; May 16.
Seal, Mechanical rubbing-type. W. J. Podbielniak. 2,158,832; May 16.
Seal, Oil. R. J. Gits. 2,158,418; May 16.
Seat construction, Spring. H. F. Wolfe. 2,158,647; May 16.
Seat for vehicles, Ventilated. C. J. Petterson. 2,158,801; May 16.
Separating device, Coin and slug. W. A. Tratsch and W. Patzer. 2,158,919; May 16.
Separator. G. E. Randall. 2,158,863; May 16.
Separator screen, Flexible. R. C. Randolph. 2,158,705; May 16.
Sewage, Disposal of. E. A. Slagle. 2,158,595; May 16.
Sewage or waste liquors, Purification of. P. Zigerli. 2,158,954; May 16.
Sewage cleaning tool. T. Haley. 2,158,577; May 16.
Sewing machine. H. Hacklander and H. J. Le Vesconte. 2,158,562; May 16.
Sewing machine. J. H. Pikul. 2,158,197; May 14.
Sewing machine, Blind stitch. H. C. Moulton and C. W. Mueller. 2,158,246; May 16.
Sewing machine, Button. S. W. Avis. 2,158,171–2; May 16.
Sewing machine, Button. F. A. Reece. 2,158,199; May 16.
Sewing machine, Stop motion. J. V. Poole and C. E. Clarke. 2,158,484; May 16.
Sewing machines, Presser foot for. H. Hacklander and H. J. Le Vesconte. 2,158,563; May 16.
Sewing machines, Button. F. A. Reece. 2,158,200; May 16.
Sewing machines, Stopping mechanism for. B. T. Leveque. 2,158,134; May 16.
Shaft coupling. E. L. Barrett. 2,158,100; May 16.
Shears. V. H. Dolph. 2,158,277; May 16.
Shears, Adjustable. S. G. Stuckey. 2,158,708; May 16.
Shelf system for delivery vehicles. F. B. Hewel. 2,158,503; May 16.
Shifting mechanism, Solenoid operating. C. D. Peterson. 2,158,480; May 16.
Shingle, Flexible interlocking. S. P. Miller. 2,158,140; May 16.
Shingles, Making. C. R. Eckert. 2,158,357; May 16.
Ship hull construction. L. R. Bester. 2,158,214; May 16.
Shock absorber. A. C. Davidson. 2,158,535; May 16.
Shock absorber packing and sealing structure. L. E. Willard. 2,158,645; May 16.
Shoe uppers in lasted position, Holding. A. R. Schoenky. 2,158,203; May 16.
Shoetree. E. J. Baas. 2,158,394; May 16.
Shut-off valve, Earthquake actuated. S. H. Hansen. 2,158,753; May 16.
Shutter. D. D. Sweney. 2,158,682; May 16.
Shutter lifter, Framing light. N. F. Matteson, G. L. Bub, and R. Q. Moore. 2,158,077; May 16.
Sign: *See*—
Changeable sign. Illuminated sign.
Sign and making same, Incandescent gas. A. S. Moffat. 2,158,968; May 16.
Signal: *See*—
Traffic signal. Warning signal.
Signal transmission system, Electric. M. Bowman-Manifold and J. Collard. 2,158,978; May 16.
Silver halide emulsion, Sensitizing. W. Konig. 2,158,287; May 16.
Ski attachment. S. Weber. 2,158,599; May 16.
Ski, Combination metal-wood. D. B. Hunt. 2,158,325; May 16.
Sleeve valve engine. W. D. Tipton. 2,158,442; May 16.
Slicing device. A. W. Rieck, C. F. Chapman, and K. Wambach. 2,158,667; May 16.
Slip-cover fastener. D. I. Reiter. 2,158,152; May 16.
Slip-sheet apparatus. A. Potdevin. 2,158,552; May 16.
Smoker's stand. J. F. Vonick. 2,158,806; May 16.
Smoking device. G. Cippico. 2,158,897; May 16.
Soap, Manufacturing. C. Leyst-Küchenmeister. 2,158,663; May 16.
Socket. J. D. Ceader. 2,158,851; May 16.
Socket. R. G. Phelps. 2,158,862; May 16.
Socket, Electric. G. B. Benander. 2,158,848; May 16.
Socket, Electric. J. D. Ceader. 2,158,852; May 16.
Solutions, Toning and intensifying. K. C. D. Hickman and J. C. Hecker. 2,158,184; May 16.
Sound creating device. W. A. Garratt. 2,158,537; May 16.
Sound recording, Phonographic. O. K. Kolb. 2,158,874; May 16.
Sound-reproducing device. E. Schwartz. 2,158,554; May 16.
Sound reproduction. R. S. Morse. 2,158,193; May 16.
Sound signaling. F. Von Voigtlander. 2,158,209; May 16.
Spark plug. A. N. Cooper. 2,158,743; May 16.
Speed ratio indicator. B. M. McConnell. 2,158,137; May 16.
Spindle pin remover. E. H. Schultz. 2,158,433; May 16.
Spiral fabric. C. E. Pink. 2,158,590; May 16.
Spool support or core for the dyeing and for the treatment of textiles on spools. J. Annicq. 2,158,889; May 16.
Sprayer. R. Bernhardt. 2,158,318; May 16.
Spring hook. S. W. Long. 2,158,372–3; May 16.
Spring structure for furniture. M. Thum. 2,158,441; May 16.
Stabilized composition. L. B. Kilgore. 2,158,724; May 16.
Stand: *See*—
Smoker's stand.
Stand or holder for a preserve dish or jar or like container for table use. L. S. Jeffay. 2,158,626; May 16.
Staple for blind stitching. A. H. Maynard. 2,158,242; May 16.
Starting device for cutting torches. G. L. Walker. 2,158,489; May 16.
Static eliminating means for carbon dioxide apparatus. H. E. Heigis. 2,157,965; May 16.
Steam boiler. E. Vigneault. 2,158,735; May 16.
Steam generating and superheating apparatus. M. H. Kuhner. 2,158,509; May 16.
Steam generator. M. H. Kuhner. 2,158,508; May 16.
Steel, F. M. Becket and R. Franks. 2,158,651–2; May 16.
Step, Folding. B. E. and B. R. Sarles. 2,158,949; May 16.
Sterilizer. S. Duberstein and N. Lawner. 2,158,692; May 16.
Sterilizer. G. Hettinger. 2,158,698; May 16.
Stethoscope. S. Silka. 2,158,764; May 16.
Stock quotation system. J. I. Bellamy. 2,158,101; May 16.
Stoker. E. L. De Mooy. 2,158,223; May 16.
Stoker, Overfeed. H. C. Carter and T. A. Marsh. 2,158,673; May 16.
Stove, Heating. V. L. Cook. 2,158,742; May 16.
Stove, Portable camp. A. S. Haislip. 2,158,236; May 16.
Stove, Portable cooking. B. H. Smith. 2,158,805; May 16.
Straw bundler. G. C. Peterson. 2,158,729; May 16.
Street indicator. L. C. Ward. 2,158,644; May 16.
Stretcher, Wire. J. A. Davisson. 2,158,927; May 16.
Strip, Sealing. E. A. Wetzel. 2,158,808; May 16.
Strontium nitrate, Production of. W. D. Turner. 2,158,162; May 16.
Stud-applying apparatus. E. J. Sabol. 2,158,763; May 16.
Stuffing box. F. Robinson. 2,158,833; May 16.
Sulphonic compounds, Fractionation of. E. R. P. E. Retaillian. 2,158,680; May 16.
Sulphur and making the same, Dispersible. R. M. Gideon. 2,158,899; May 16.
Support. A. G. Dean. 2,158,783; May 16.
Support for shirts, Collar. J. A. Peyton. 2,158,379; May 16.
Surge tank. F. D. Taylor. 2,158,388; May 16.
Spindle unit for textile machines, Swinging. W. R. Gordon. 2,158,612; May 16.
Switch: *See*—
Conveyor switch. Fuse switch.
Delayed action reversing switch. Thermally controlled switch.
Electric switch.
Switch. C. I. Erickson. 2,157,930; May 16.
Switch. R. Popp. 2,158,678; May 16.
Switch for use in telephone or like systems, Automatic. R. N. Saxby. 2,158,384; May 16.
Switch panel, Explosionproof. R. H. Olley. 2,158,477; May 16.
Switch structure, Combination fan and limit. B. E. Shaw. 2,158,437; May 16.
Switch suitable for use with internal combustion engines, Battery isolating. G. Robertson. 2,158,428; May 16.
Switching apparatus. W. H. Frank, L. E. Fisher, and J. A. Messing. 2,158,657; May 16.
Swivel pipe coupling. M. P. Laurent. 2,158,131; May 16.
Syringe, Hypodermic. W. Scrimgeour. 2,158,593; May 16.
Table: *See*—
Folding table. Trap table.
Table. W. C. Lindsay. 2,158,726; May 16.
Table top construction. S. Madsen. 2,158,467; May 16.
Tackle for flat knitting machines. F. C. Good. 2,158,498; May 16.
Tag and means thereon for attaching the same to garments. S. Weiss. 2,158,345; May 16.
Tank: *See*—
Surge tank.
Tank control, Flush. M. P. Flaherty. 2,158,750; May 16.
Tank valve. L. W. Winship. 2,158,452; May 16.
Target trap. S. H. Bingham, Jr. 2,158,739; May 16.
Telephony, Secret. P. Kotowski and K. Dannehl. 2,158,662; May 16.
Telegraphy, system and apparatus for facsimile. R. J. Wise. 2,158,391; May 16.
Telephone system. E. S. Peterson. 2,158,945; May 16.

Telescope objective. A. König. 2,158,507; May 16.
Teletypewriter trunking system. K. E. Fitch. 2,158,113; May 16.
Television apparatus. K. Tihanyi. 2,158,259; May 16.
Television receiver operating level control. R. Urtel, R. Andrieu, and M. Geiger. 2,158,261; May 16.
Television system. F. von Okolicsanyi. 2,158,990; May 16.
Temperature control device. C. I. Hall and C. M. Hathaway. 2,158,857; May 16.
Temperature control device. J. R. Campbell. 2,158,850; May 16.
Temperature regulation. C. H. Kuhlman. 2,158,628; May 16.
Testing apparatus. S. M. Lloyd. 2,158,630; May 16.
Testing method and apparatus. A. V. de Forest and F. B. Doane. 2,158,409; May 16.
Testing plant for internal combustion engines. W. Brintzinger. 2,158,894; May 16.
Textile machine. G. Fisher, W. S. Tandler, and R. W. Carlisle. 2,158,536; May 16.
Textile machine. W. R. Gordon. 2,158,611; May 16.
Textile stretching apparatus. H. W. Mettler. 2,158,632; May 16.
Thermal atmolysis and apparatus employing same. R. M. Hvid. 2,158,238; May 16.
Thermally controlled switch. C. W. Kuhn. 2,158,288; May 16.
Thermometer. G. E. Ford. 2,158,751; May 16.
Thermostat. P. B. Parks and T. J. Lehane. 2,158,146; May 16.
Thermostat, Wall temperature compensated room. B. E. Shaw. 2,158,435; May 16.
Thread drawing off device on double twist twisting machines. O. Bochmann. 2,158,607; May 16.
Timing relay. H. A. Wilhelm. 2,158,346; May 16.
Tire, Automobile. T. Bryant. 2,158,398; May 16.
Tire-slitting machine. G. F. Wikle. 2,158,167; May 16.
Tobacco cartridge and making same. S. Deich. 2,158,928; May 16.
Tobacco mild and the resultant product thereof, Making harsh. A. T. Andrews. 2,158,565; May 16.
Tobacco pipe. P. E. Page. 2,158,301; May 16.
Tobacco product and obtaining the same. M. R. Coe. 2,158,610; May 16.
Token dispenser. T. G. Bogress. 2,158,608; May 16.
Tonic, Hair. D. and A. Caimi. 2,158,791; May 16.
Toning and intensifying solutions. K. C. D. Hickman and J. C. Hecker. 2,158,185–6; May 16.
Tool: *See*—
Fence tool.
General utility tool.
Impact tool.
Lapping or abrading tool.
Illuminated hand tool.
Sewer cleaning tool.
Tool. H. Saucke. 2,158,866; May 16.
Tool and hydraulic operating mechanism therefor, Machine. C. R. Alden. 2,158,060; May 16.
Tool chuck, Machine. L. E. Godfriaux. 2,158,058; May 16.
Tool for drill stems, Fishing. J. T. Ashcraft. 2,158,814; May 16.
Tool for lathes or the like, Turning. M. E. Lange and J. R. Longstreet. 2,158,798; May 16.
Tool handle. F. W. Peters. 2,158,728; May 16.
Tool retainer. E. B. Lear. 2,158,190; May 16.
Tooth brush, Motor operated. R. H. Baker and D. G. Bishop. 2,158,738; May 16.
Topsoil, Conservation and preservation of. J. F. Timberlake. 2,158,952; May 16.
Toy. S. I. Berger. 2,158,052; May 16.
Toy. R. A. Brinkman. 2,158,740; May 16.
Toy. F. H. Schulenberg. 2,158,432; May 16.
Toy. E. Spritzer. 2,158,639; May 16.
Toy figures and so forth, Mechanical movement for. H. S. Hyde. 2,158,860; May 16.
Toy, Musical. S. Weiss. 2,158,445; May 16.
Toy, Wheeled acrobatic figure. R. Regenburgh, Sr. 2,158,426; May 16.
Traffic signal, Automobile. E. L. Whenham. 2,158,973; May 16.
Transformer, High leakage. J. A. Comstock. 2,158,275; May 16.
Transformer, Permeability-tuned intermediate-frequency. W. A. Schaper. 2,158,255; May 16.
Transmission line. R. W. George. 2,158,496; May 16.
Transmission mechanism. R. R. Eastin. 2,158,573; May 16.
Trap: *See*—
Target trap.
Trap table. G. H. Way. 2,158,807; May 16.
Tricycle. A. Dobrowolski. 2,158,618; May 16.
Trimmer and edger, Lawn. W. P. Houser. 2,158,580; May 16.
Trolley shoe, Self-lubricating. W. R. Jackson. 2,158,721; May 16.
Trolley system, Overhead. R. R. Holden. 2,158,421; May 16.
Trucking vehicle. M. F. Swanson. 2,158,596; May 16.
Tube: *See*—
Cathode ray tube.
Tube for inflating automobile tires, Extension. E. E. Glassley. 2,158,576; May 16.
Tube-rolling machine. L. C. Shippy. 2,158,339; May 16.
Tubing, Manufacture of. C. C. Harrah. 2,158,796; May 16.
Tubular parts, Joining. S. Loftfield. 2,158,075; May 16.
Tumbler lock. L. Gutman. 2,158,501; May 16.
Turbine. W. P. van Lammeren. 2,158,557; May 16.
Type binding means. C. W. Johnson. 2,158,583; May 16.
Typewriter. K. D. Evans. 2,158,066; May 16.
Typewriting machine. C. R. Mabon. 2,158,585; May 16.
Typographical single-type composing machine. J. du Four. 2,158,224; May 16.
Undercleaner mounting in textile spinning, preparing, and like machines. W. Wilson. 2,158,921; May 16.
Utensil plug. E. B. Barnitz. 2,158,922; May 16.
Vacuum cleaner. C. A. Brock. 2,158,717; May 16.
Valve: *See*—
Air control valve.
Automatic valve.
Piston valve.
Pressure relief valve.
Shut-off valve.
Tank valve.
Water valve.
Valve. J. Hansen. 2,158,070; May 16.
Valve and controlling arrangement therefor, Gas. W. Lorenz and C. Steinhardt. 2,158,787; May 16.
Valve control for steam locomotives, Poppet. H. Lentz. 2,158,331; May 16.
Valve for internal combustion engines, Rotary. W. D. Sykes. 2,158,386; May 16.
Valve for liquid elevating apparatus, Control. W. H. Exley and W. Haddon. 2,158,898; May 16.
Valve for liquids of variable viscosities, Control. G. Wünsch. 2,158,737; May 16.
Valve mechanism, Compensating. E. L. Dayton. 2,158,222; May 16.
Valve operating mechanism. R. C. Russell. 2,158,730; May 16.
Veal carcasses, Processing of. H. J. Koenig. 2,158,462; May 16.
Vehicle: *See*—
Motor vehicle.
Trucking vehicle.
Vehicle. L. E. Vogt. 2,158,780; May 16.
Vehicle for mixed propulsion by wheels and endless tracks. A. Kégresse. 2,158,457; May 16.
Vehicle wheel. H. J. Horn and C. R. Stough. 2,158,125; May 16.
Vehicles, Apparatus for heating motor. A. R. Lintern. 2,158,758; May 16.
Veneered product. L. Ottinger. 2,158,908; May 16.
Veneered products, Producing. L. Ottinger. 2,158,907; May 16.
Vent for ranges, Back draft. J. W. Barker. 2,158,685; May 16.
Ventilating apparatus, Vehicle. A. R. Lintern. 2,158,332; May 16.
Ventilator, heater, and windshield defroster for automobile bodies, Combined. C. A. Moore. 2,158,245; May 16.
Visor for collapsible caps. M. Meyer. 2,158,861; May 16.
Voice and music mixer for use in sound recording. J. O. Baker. 2,158,268; May 16.
Volume indicator. R. A. Hennings. 2,158,936; May 16.
Wall construction. C. R. Emery. 2,158,412; May 16.
Wall structure, Composite sheet metal. F. Griebsch. 2,158,234; May 16.
Wall paper and the like, Device for smoothing. O. H. Foss. 2,158,695; May 16.
Warning signal. W. J. Wilde. 2,158,449; May 16.
Washer: *See*—
Lock washer.
Washing machine. V. Bendix. 2,158,815; May 16.
Washing machine. D. A. Meeker and H. L. Johnston. 2,158,904; May 16.
Watch container. W. J. Roy. 2,158,155; May 16.
Water closet for boats. E. Hoerichs. 2,158,938; May 16.
Water valve. B. E. Shaw. 2,158,436; May 16.
Wax from oil, Separation of. L. P. Evans. 2,158,358; May 16.
Weather strip and sash balance. M. J. Gossen. 2,158,963; May 16.
Weatherstripping. P. R. Oftedal and D. G. Kingsley 2,158,298; May 16.
Web cutting and rewinding machine. W. Köhler. 2,158,286; May 16.
Webs, Apparatus for imparting stretchability to. W. W. Rowe and W. A. Morris. 2,158,087; May 16.
Weighing machine for dispensing and mixing paint, Automatic. N. Grubelic. 2,158,795; May 16.
Welding. L. J. Larson. 2,158,799; May 16.
Welding process and apparatus. A. R. Lytle and W. Morton. 2,158,664; May 16.
Welding rod. A. R. Lytle and T. H. Vaughn. 2,158,984; May 16.
Well apparatus. H. E. Aulman. 2,158,393; May 16.
Wheel: *See*—
Metal spoked wheel.
Vehicle wheel.
Wheel supporting means for vehicle. K. Rabe. 2,158,776; May 16.
Wheel unit, Independently sprung suspension. A. R. Pribil. 2,158,488; May 16.
Wheels, Method of and apparatus for grinding toothed. E. Huff. 2,158,423; May 16.
Whip-stitching device. J. T. Sandberg and S. R. Bjereus. 2,158,430; May 16.
Whip stock. F. Kinzbach. 2,158,329; May 16.
Windmill. C. H. Wigzell. 2,158,606; May 16.

Window, Circle. F. F. Bell. 2,158,395; May 16.
Window cleaner. O. Moller. 2,158,141; May 16.
Window lock. E. F. Stillman. 2,158,260; May 16.
Windshield heater. J. H. Cohen. 2,158,674; May 16.
Wing flap mechanism. L. F. Engelhardt. 2,158,676; May 16.
Wiper, Windshield. S. E. Rosenberg. 2,158,254; May 16.
Wire for thread guides, Retainer. P. B. Briggs 2,158,609; May 16.
Wire sawing. J. B. Newsom. 2,158,830; May 16.
Wire splice. R. A. Becker, Sr., and S. P. Becker. 2,158,892; May 16.
Wrapper, Refill dispensing. W. H. West. 2,158,712; May 16.
Wrapper removing device, Tire. A. G. Doros. 2,158,747; May 16.
Yarn furnishing device. R. H. Lawson and W. L. Smith, Jr. 2,158,547; May 16.
Yarn rewinding set. K. Merkel. 2,158,828; May 16.
Gear for ship's boat, Propulsion. I. R. and F. E. Fleming. 2,158,414; May 16.

CLASSIFICATION OF PATENTS

ISSUED MAY 16, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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American Renaissance Associates, Inc., White Plains, N. Y. Canned coffee, corn, and peaches. Serial No. 400,940; May 23. Class 46.

American Sales Development Co., Inc., New York, N. Y. Hosiery. Serial No. 416,533; May 23. Class 39.

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Amsterdam, Irving, doing business as Formost Laboratories Co., New York, N. Y. Liquid lotion. Serial No. 417,637; May 23. Class 6.

Analysis Forms Co. (See Lichleitner, Emil.)

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Auer Register Company, The, Cleveland, Ohio. Registers and grilles. Serial Nos. 416,534–6; May 23. Class 34.

Auto License Safe Company, The, Elyria, Ohio. Holders to be mounted on instrument boards. Serial No. 411,674; May 23. Class 19.

Avalon Pharmacy, New York, N. Y. Medicines. Serial No. 407,122; May 23. Class 6.

Ayerst, McKenna & Harrison (United States), Limited. Medicinal vitamin preparation. Serial No. 416,306; May 23. Class 6.

Bach Shoe Company, St. Louis, Mo. Shoes, oxfords, house-slippers, etc. Serial Nos. 415,370–1; May 23. Class 39.

Baker Furniture, Inc., Grand Rapids, Mich. Furniture. Serial No. 418,286; May 23. Class 32.

Bankston-Edwards Canning Company, Zebulon, Ga. Fresh peaches, pimientos, and turnip greens. Serial No. 415,973; May 23. Class 46.

Beal, Arthur W., Glen Rock, N. J. Soothing ointment. Serial No. 416,930; May 23. Class 6.

Behr-Manning Corporation, Troy, N. Y. Fabric treated with non-slipping material. Serial No. 412,490; May 23. Class 50.

Belleau, Louis S., doing business as Belleau Drug Store, Green Bay, Wis. Liniment. Serial No. 415,628; May 23. Class 6.

Bemis Bro. Bag Company, St. Louis, Mo. Piece goods. Serial No. 417,605; May 23. Class 42.

Benz, George, Sons, Inc., St. Paul, Minn. Whiskey. Serial No. 417,861; May 23. Class 49.

Betner, Benj C., Co., Devon, Pa. Paper bags. Serial No. 416,598; May 23. Class 2.

Birdsall & Wilcox, New Haven, Conn. Mayonnaise, Russian dressing, sandwich spread, etc. Serial No. 416,993; May 23. Class 46.

Black Knight Company, Chattanooga, Tenn. Lighting equipment. Serial No. 406,903; May 23. Class 21.

Bradley, Milton, Company, Springfield, Mass. Board game. Serial No. 418,237; May 23. Class 22.

Brandt, Robert J., Los Angeles, Calif. Desks or tables. Serial No. 417,255; May 23. Class 32.

Brooklyn Handkerchief Co., Brooklyn, N. Y. Handkerchiefs. Serial No. 417,114; May 23. Class 39.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial Nos. 417,483–4; May 23. Class 27.

Burgess Battery Company, Freeport, Ill. Dry batteries and flashlight cases. Serial No. 416,400; May 23. Class 21.

Burson Knitting Company. (See Rollte.)

C. C. M. Incorporated, Buffalo, N. Y. Skating shoes, stocking suspenders, and hockey knickers. Serial No. 414,651; May 23. Class 39.

Canine Vita-Candy Company, Inc., Waterbury, Conn. Vitamine containing food for pets. Serial No. 396,117; May 23. Class 46.

Capitol Foods, Inc., Madison, Wis. Dessert preparations. Serial No. 416,311; May 23. Class 46.

Celanese Corporation of America, New York, N. Y. Yarns. Serial No. 417,440; May 23. Class 43.

Celanese Corporation of America, New York, N. Y. Hosiery. Serial No. 417,441; May 23. Class 39.

Celluloid Corporation, Newark, N. J. Dresser and bag toilet sets. Serial No. 418,093; May 23. Class 40.

Chase & Pickenpaugh, Long Beach, Calif. Hair oil. Serial No. 405,754; May 23. Class 6.

Chefford Master Manufacturing Co. Inc., Fairfield, Ill. Automobile clutch plates. Serial No. 416,599; May 23. Class 23.

Church & Dwight Co. Inc., New York, N. Y. Bicarbonate of soda, saleratus, and baking-soda. Serial No. 417,324; May 23. Class 6.

Church & Dwight Co. Inc., New York, N. Y. Baking soda. Serial Nos. 417,325–6; May 23. Class 46.

Church & Dwight Co. Inc., New York, N. Y. Bicarbonate of soda, saleratus, and baking-powder. Serial No. 417,327; May 23. Class 6.

Cleveland Tractor Company, The, Cleveland, Ohio. Tractors. Serial No. 417,523; May 23. Class 23.

College of Electronic Medicine, Blanche & Jeanne R. Abrams Memorial Foundation, San Francisco, Calif. Diagnostic tuning devices for medical use. Serial No. 413,001; May 23. Class 44.

Colorado Milling & Elevator Co., doing business as Farmers Flour Mills, Denver and Berthoud, Colo. Wheat flour. Serial No. 417,083; May 23. Class 46.

Columbia Products Corporation, Brooklyn, N. Y. Covers of oil-silk, oil-skin, and flexible fabrics. Serial No. 417,641; May 23. Class 50.

Conn, C. G., Ltd., Elkhart, Ind. *Cornets. Serial No. 417,443; May 23. Class 36.

Conn, C. G., Ltd., Elkhart, Ind. Metal bells for musical instruments. Serial No. 417,444; May 23. Class 36.

Conn, C. G., Ltd., Elkhart, Ind. Metal keys for musical instruments. Serial No. 417,445; May 23. Class 36.

Converse Rubber Company, Malden, Mass. Boots and shoes. Serial No. 417,401; May 23. Class 39.

Crosley Corporation, The, Cincinnati, Ohio. Facsimile apparatus to be used with radio apparatus. Serial No. 414,984; May 23. Class 21.

Daniele, L. Alfredo, doing business as La Presto Co., Williamsport, Pa. Hair tonic. Serial No. 418,138; May 23. Class 6.

Debs Company, The. (See Smaldone, Gerard.)

De Trey Frères Société Anonyme, Zurich, Switzerland. Dental materials. Serial No. 415,868; May 23. Class 44.

Dickman, Stephen R., New York, N. Y. Cosmetics. Serial No. 417,205; May 23. Class 6.

Distillers Agency Limited, The, Edinburgh, Scotland. Scotch whisky. Serial No. 415,076; May 23. Class 49.

Diversey Corporation, The, Chicago, Ill. Cleanser. Serial No. 416,549; May 23. Class 4.

Dobeckmun Company, The, Cleveland, Ohio. Wrappers. Serial No. 417,165; May 23. Class 37.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. Serial No. 417,362; May 23. Class 6.

Edwal Laboratories, Inc., The, Chicago, Ill. Chemicals and mixtures of chemicals for use in photographic developing processes. Serial No. 417,271; May 23. Class 6.

Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. Serial No. 415,887; May 23. Class 46.

Euclid Candy Co. of Illinois, Inc., The, Chicago, Ill. Candy. Serial No. 414,173; May 23. Class 46.

Fa-Clle Fastener Corporation, New York, N. Y. Bag fasteners. Serial No. 414,597; May 23. Class 3.

Farmer, Charles D., Detroit, Mich. Bath salts and water softener. Serial No. 418,097; May 23. Class 6.

Farmers Flour Mills. (See Colorado Milling & Elevator Co.)

Fingerlin, Eugene, Tulsa, Okla. Preparation adapted to be applied to the hair. Serial No. 418,039; May 23. Class 6.

Fingles, W. A., Inc., also doing business as Majestic Flashing Co., Baltimore, Md. Thru wall flashing. Serial No. 417,568; May 23. Class 12.

Fisher, Gorman L., Jamestown, N. Y. Tables, chairs, benches, etc. Serial No. 418,298; May 23. Class 32.

Floridin Company, Warren, Pa. Agent prepared from natural earth. Serial No. 417,608; May 23. Class 1.

Folsom Company, The, Dallas, Tex. Electrical sockets, switches, wire fuses, etc. Serial No. 404,846; May 23. Class 21.

Forging and Casting Corporation, The, Ferndale, Mich. Steel. Serial No. 417,754; May 23. Class 14.

Formost Laboratories Co. (See Amsterdam, Irving.)
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 417,755; May 23. Class 42.
Frankenthal, H., doing business as Frankenthal Company, Weslaco, Tex., and Sanger, Calif. Fresh fruits. Serial No. 417,334; May 23. Class 46.
Fraser, Russell, Wire Company, New York, N. Y., now by change of name Fraser Manufacturing Co. Inc. Glmp. Serial No. 412,308; May 23. Class 40.
Freischlag, Elmer J., Buffalo, N. Y. Medicine. Serial No. 416,062; May 23. Class 6.
Frostkraft Packing Corporation, San Francisco, Calif. Fresh frozen fruits, berries, and vegetables. Serial No. 417,087; May 23. Class 46.
Fuji Trading Co., The, Chicago, Ill. Molasses. Serial No. 417,211; May 23. Class 46.
Galion Metallic Vault Company, The, doing business as Hercules Steel Products Company, Galion, Ohio. Hydraulic hoists. Serial No. 386,105; May 23. Class 23.
Geier, P. A., Company, The, Cleveland, Ohio. Electrically operated suction cleaners. Serial No. 417,490; May 23. Class 21.
General Refractories Company, Philadelphia, Pa. Bricks. Serial No. 417,088; May 23. Class 12.
General Tobacco and Grocery Company. (See Starkstein, Morris.)
General Wood Products Co., Rockford, Ill. Wooden articles, housewares, and house furnishings. Serial No. 395,271; May 23. Class 32.
Goodman, Harry, New York, N. Y. Dresses. Serial No. 417,364; May 23. Class 39.
Gross Machinery Co. Inc., Buffalo, N. Y. Laundry machinery. Serial No. 413,866; May 23. Class 24.
H. L. G. Company, Kalamazoo, Mich. Mechanical water softeners. Serial No. 417,538; May 23. Class 23.
Hartman, Mrs. Maud, doing business as King Cole Muddler, New York, N. Y. Beverage stirrer. Serial No. 415,949; May 23. Class 23.
Haspel Bros., Inc., New Orleans, La. Men's suits. Serial No. 412,640; May 23. Class 39.
Heil, Edward H., Cleveland, Ohio. Preparation for cleansing false teeth without brushing. Serial No. 412,069; May 23. Class 4.
Henkel, A., & Son, Inc., Keene, N. H. Cuticle and nail scissors, cuticle and nail nippers, fingernail clips, etc. Serial No. 414,350; May 23. Class 44.
Hercules Steel Products Company. (See Galion Metallic Vault Company, The.)
Hermes, S. A., Paris, France. Trunks, traveling bags, suit cases, etc. Serial No. 416,560; May 23. Class 3.
Hermes, S. A., Paris, France. Belts, golf gloves and sport gloves, etc. Serial No. 416,563; May 23. Class 39.
Hockmeyer Bros., Inc., New York, N. Y. Piece goods. Serial No. 417,459; May 23. Class 42.
Hogg Manufacturing Co., Inc., New York, N. Y. Caps for bottles and similar liquid containers. Serial No. 417,617; May 23. Class 50.
Houghton, E. F., & Co., Philadelphia, Pa. Chemical compounds. Serial No. 415,596; May 23. Class 4.
Hyne Company, The, doing business as Peranol Products, Chicago, Ill. Nasal emollients and douches. Serial No. 415,040; May 23. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Photographic cameras. Serial No. 415,709; May 23. Class 26.
Instrument Specialties Company, Inc., Little Falls, N. J. Instrument for indicating the condition of storage batteries. Serial No. 413,787; May 23. Class 26.
Intermountain Seed & Fuel Company, Twin Falls and Nampa, Idaho. Seeds, seed peas, and seed beans and popcorn. Serial No. 417,693; May 23. Class 1.
International Filter Co., Chicago, Ill. Water purifying materials. Serial No. 417,876; May 23. Class 6.
International Metallic Packing Corporation, Chicago, Ill. Metallic packing. Serial No. 418,224; May 23. Class 35.
Interstate Laboratories Incorporated, Louisville, Ky. Medicated eye pads. Serial No. 417,579; May 23. Class 6.
Iosaline Company, The. (See Taliaferro, H. B.)
Irwin, Neisler & Co., Decatur, Ill. Hypertonic antiseptic dressing. Serial No. 417,965; May 23. Class 6.
Irwin, Neisler & Co., Decatur, Ill. Medicinal tablets. Serial No. 417,966; May 23. Class 6.
Italian Drugs Importing Co., Inc., New York, N. Y. Pharmaceutical preparation. Serial No. 417,281; May 23. Class 6.
Jests, Inc., New York, N. Y. Preparation used for indigestion and as an anti-acid. Serial Nos. 417,126–8; May 23. Class 6.
Johnson, Nestor, Manufacturing Company, Chicago, Ill. Ice skates and skate outfits. Serial No. 418,208; May 23. Class 22.
Johnson, Samuel R., doing business as Johnson Laboratories, Kansas City, Mo. Mercolated tablets, disinfectant spray, salve, etc. Serial No. 418,345; May 23. Class 6.
Jolly Joan, Portland, Oreg. Gelatine desserts. Serial No. 411,055; May 23. Class 46.
Jones, Katherene T., Baltimore, Md. Preparations for acne, sunburn, cuts, etc. Serial No. 415,003; May 23. Class 6.
Kaiko Photo Products. (See Kalish, Charles.)
Kalish, Charles, doing business as Kaiko Photo Products, Brooklyn, N. Y. Easels, photographic printing boxes, photographic enlargers, etc. Serial No. 417,461; May 23. Class 26.
Kearney, James R., Corporation, St. Louis, Mo. Tools and parts thereof. Serial No. 405,507; May 23. Class 23.
Kendall Company, The, Walpole, Mass. Fabrics. Serial No. 411,872; May 23. Class 42.
Keller, Heumann & Thompson Company, Inc., Rochester, N. Y. Suits and overcoats. Serial No. 417,283; May 23. Class 39.
Kenny, William F., Company, The, New York, N. Y. Fresh fruits and vegetables. Serial No. 416,958; May 23. Class 46.
Kensington, Incorporated, New Kensington, Pa. Tea pots, coffee pots, cocktail shakers, etc. Serial No. 374,196; May 23. Class 13.
King Cole Muddler. (See Hartman, Mrs. Maud.)
Kresge, Sebastian S., doing business as Kresge Department Store, Newark, N. J. Hand bags, portfolios, brief cases, etc. Serial No. 412,507; May 23. Class 3.
Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Toilet creams. Serial No. 412,414; May 23. Class 6.
La Presto Co. (See Daniele, L. Alfredo.)
La Resista Corset Company, The, Bridgeport, Conn. Elastic textile piece goods. Serial No. 410,590; May 23. Class 42.
Lederer, Henry, and Brother, Incorporated, Providence, R. I. Combination comb and brush sets. Serial No. 415,459; May 23. Class 40.
Lees, James, & Sons Company, Bridgeport, Pa. Crochet and knitting cotton. Serial No. 417,540; May 23. Class 43.
Lelong, Lucien, Inc., Chicago, Ill. Perfumes. Serial No. 410,742; May 23. Class 6.
Levy, Maurice, doing business as Malvy, New York, N. Y. Perfume. Serial No. 418,110; May 23. Class 6.
Lichleitner, Emil, doing business as Analysis Forms Co., New York, N. Y. Writing and letter paper, analysis pads, etc. Serial No. 413,187; May 23. Class 37.
Lima Cord Sole and Heel Company, The, Lima, Ohio. Soles and heels. Serial No. 416,468; May 23. Class 39.
Little Tommy Tucker Coats, Inc., New York, N. Y. Boys' coats. Serial No. 416,195; May 23. Class 39.
Loveman, Joseph, & Loeb, Birmingham, Ala. Sheets and pillow cases. Serial No. 414,454; May 23. Class 42.
Lynch, Josephine A., doing business as The Lynch Studio, Los Angeles, Calif. Roast racks. Serial No. 416,571; May 23. Class 13.
MacGruder, W. W., Denver, Colo. Gum massaging preparation. Serial No. 415,847; May 23. Class 6.
Maid-O'-Mist, Inc., Chicago, Ill. Automatic humidifiers. Serial No. 376,292; May 23. Class 34.
Majestic Flashing Co. (See Fingles, W. A., Inc.)
Malvy. (See Levy, Maurice.)
Marelle, Inc., Jersey City, N. J. Bath oils. Serial No. 412,821; May 23. Class 6.
McKenzie, Joel B., doing business as Triangle Poultry Farm, Newfield, N. J. Eggs. Serial No. 396,962; May 23. Class 46.
McLaurin-Jones Co., Brookfield, Mass. Gummed fabric and gummed fabric tape. Serial No. 417,291; May 23. Class 5.
Menihan, J. G., Corp., Rochester, N. Y. Shoes. Serial No. 417,027; May 23. Class 39.
Modern Pac, Inc., Eau Claire, Mich. Boxes, paper containers, crates, and baskets. Serial No. 403,954; May 23. Class 2.
Mokotowska Fabryka Chemiczno-Farmaceutyczna Adolf Gasecki i Synowie Spolka Akcyjna, Warsaw, Poland. Powders for headaches, migraine, neuralgia, etc. Serial No. 400,582; May 23. Class 6.
Montru for Beauty. (See Ruden, Mortimer.)
Moore Dry Kiln Company of Oregon, North Portland, Oreg. Dry kilns. Serial No. 408,408; May 23. Class 34.
Naamlooze Vennootschap Maatschappij voor Wasverwerking, Amersfoort, Netherlands. Fly-catchers and flyribbons. Serial No. 417,408; May 23. Class 50.
National Broom Mfg. Co., The, Pueblo, Colo. Insecticides. Serial No. 418,354; May 23. Class 6.
National Sales Company, Cleveland, Ohio. Miniature boxing gloves intended for use as a talisman, charm or trophy. Serial No. 416,578; May 23. Class 50.
National Silver Company, New York, N. Y. Sterling silver and silver plated flatware, hollow ware, and tableware. Serial Nos. 417,652–3; May 23. Class 28.
Nau, Frank, (Inc.), Portland, Oreg. Antiseptic mouth wash. Serial No. 417,296; May 23. Class 6.
Nestra Packing Company, Berkley, Mich. Dog food. Serial No. 417,409; May 23. Class 46.
Newman Pharmacal Company, Louisville, Ky. Alkaline silicate bismuth powder. Serial No. 417,469; May 23. Class 6.
Norwich Pharmacal Company, The, Norwich, N. Y. Skin cream. Serial No. 418,260; May 23. Class 6.
Olenik, Irwin, New York, N. Y. Hats, berets, and caps; etc. Serial No. 417,386; May 23. Class 39.

Opie, John T., doing business as Opie Sponge Company, Kansas City, Mo. Chamois skins and sponges. Serial No. 417,135; May 23. Class 1.
Osterman, Fried, Company, Milwaukee, Wis. Leather gloves, mittens, helmets, etc. Serial No. 417,136; May 23. Class 39.
Palizzio, Inc., New York, N. Y. Shoes. Serial No. 416,913; May 23. Class 39.
Palmer House Company, Chicago, Ill. Whiskies, brandies, gins, etc. Serial No. 418,309; May 23. Class 49.
Panther Oil & Grease Mfg. Co., Fort Worth, Tex. Lubricating oils and greases. Serial No. 417,181; May 23. Class 15.
Pappy's Ice Cream Biscuit Co., College Station, Tex. Frozen confection. Serial No. 416,807; May 23. Class 46.
Peerless Laboratories, Inc., New York, N. Y. X-ray generators. Serial No. 415,792; May 23. Class 44.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Rayon and silk piece goods. Serial No. 417,933; May 23. Class 42.
Pepperell Manufacturing Company, Boston, Mass. Blankets. Serial No. 417,471; May 23. Class 42.
Peranol Products, The. (See Hyne Company.)
Pickaway Canning Company, The, Circleville, Ohio. Canned vegetables. Serial No. 416,869; May 23. Class 46.
Pi-Lo-Ra Company, Inc., The, Denison, Tex. Ointment. Serial No. 418,263; May 23. Class 6.
Puritan Soap Company, assignor to Puritan Soap Company, Inc., Rochester, N. Y. Top finish or dressing for automobiles. Serial No. 391,396; May 23. Class 4.
Quality Products Co., Inc., New York, N. Y. Toilet and cosmetic preparations. Serial No. 417,890; May 23. Class 6.
Reid, Elmer A., Morrisville, Pa. Electrical therapeutic vaporizer and humidifier. Serial No. 398,019; May 23. Class 44.
Revlon Nail Enamel Corporation, The, New York, N. Y. Enamel adapted for coating finger nails. Serial No. 418,060; May 23. Class 6.
Richards, Wesley A., Detroit, Mich. Medicated scalp pomade. Serial No. 417,235; May 23. Class 6.
Rochester Button Company, Rochester, N. Y. Buttons. Serial No. 417,891; May 23. Class 40.
Rolite, doing business as Burson Knitting Company, Rockford, Ill. Electric current generators. Serial No. 417,473; May 23. Class 21.
Roller Bearing Company of America, Trenton, N. J. Roller bearings. Serial No. 416,206; May 23. Class 23.
Ruden, Mortimer, doing business as Montru for Beauty, New York, N. Y. Packaged hair pomade and dressing. Serial No. 417,587; May 23. Class 6.
St. Charles Technical Laboratories, Inc., St. Charles, Ill. Fluorescent tubing. Serial No. 416,209; May 23. Class 21.
Salted in the Shell, Inc., New York, N. Y. Peanuts salted in the shell. Serial No. 417,101; May 23. Class 46.
Santa Cruz Artichoke & Sprout Growers, Santa Cruz, Calif. Fresh vegetables. Serial Nos. 414,836–7; May 23. Class 46.
Saracco, Sebastian, doing business as Sebastian Saracco's Anti-Diabetic Capsules, Paterson, N. J. Anti-diabetic capsules. Serial No. 415,863; May 23. Class 6.
Schwab, Armand, & Co., Inc., New York, N. Y. Hat bodies and hat hoods. Serial No. 417,193; May 23. Class 39.
Seaboard Manufacturing Company, Incorporated, Baltimore, Md. Shirts. Serial No. 416,086; May 23. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Mechanics' tools. Serial No. 412,927; May 23. Class 23.
Sears, Roebuck and Co., Chicago, Ill. Hand cream, almond lotion, all purpose cream, etc. Serial No. 415,417; May 23. Class 6.
Seymour, Jane, Limited, London, England. Astringent lotions, acne lotions, anti-weather creams, etc. Serial No. 386,699; May 23. Class 6.
Shell Oil Company, San Francisco, Calif. Insecticidal preparations. Serial Nos. 417,348–50; May 23. Class 6.
Shulton, Inc., New York, N. Y. Saponaceous compounds, shaving cream and sticks, etc. Serial No. 408,170; May 23. Class 4.
Sichel, H., & Sons, Limited, London, England. Wine. Serial No. 417,418; May 23. Class 47.
Siegel, William, doing business as Williams Specialty Co., New York, N. Y. Capsules of cod liver oil and creosote. Serial No. 400,937; May 23. Class 6.
Simpson, C. J., Oakland, Calif. Kitchen food mixers. Serial No. 415,928; May 23. Class 23.
Smaldone, Gerard, doing business as The Debs Company, Rochester, N. Y. Finger nail stencils. Serial No. 418,069; May 23. Class 44.
Smith's Melo Cream Donuts, York, Pa. Doughnuts. Serial No. 415,800; May 23. Class 46.
Sparkol Company. (See Abrams, Jacob L.)
Standard Lime and Stone Company, The, Baltimore, Md. Flux. Serial No. 416,708; May 23. Class 6.
Starkstein, Morris, doing business as General Tobacco and Grocery Company, Detroit, Mich. Canned vegetables. Serial No. 416,660; May 23. Class 46.
Stetson China Company, Inc., Chicago, Ill. China tableware. Serial No. 404,922; May 23. Class 30.
Stuart-Chase Co., North Bergen, N. J. Face, bath, talcum powders, etc. Serial No. 417,146; May 23. Class 6.
Sunderland, Elsie, Los Angeles, Calif. Piece goods. Serial No. 416,878; May 23. Class 42.
Superior Shoe Co., Inc., The, Chicago, Ill. Shoes. Serial No. 417,558; May 23. Class 39.
Supreme Olive Oil Corporation, San Fernando, Calif. Soaps. Serial No. 416,661; May 23. Class 4.
Taliaferro, H. B., doing business as The Iosaline Company, Washington, D. C. Analgesic. Serial No. 417,310; May 23. Class 6.
Tappan Stove Company, The, Mansfield, Ohio. Cooking apparatus. Serial No. 416,879; May 23. Class 34.
Tefft-Jackson, Incorporated, Providence, R. I. Valve and damper position gauges, indicators, and measuring devices. Serial No. 415,091; May 23. Class 26.
Tire and Rim Association, Inc., The, Cleveland, Ohio. Vehicle wheels, and rims for vehicle wheels. Serial No. 416,213; May 23. Class 19.
Transpar Corporation, Chicago, Ill. Furniture protectors, furniture covers, slip covers, etc. Serial No. 417,513; May 23. Class 32.
Triangle Poultry Farm. (See McKenzie, Joel B.)
United Elastic Corporation, Easthampton, Mass. Elastic webbing. Serial No. 411,315; May 23. Class 42.
United Toilet Goods Corp., New York, N. Y. Toilet water, sachet, bath powder, etc. Serial No. 416,003; May 23. Class 6.
Universal Camera Corporation, New York, N. Y. Cameras. Serial No. 414,169; May 23. Class 26.
Universal Camera Corporation, New York, N. Y. Photographic lenses. Serial No. 414,170; May 23. Class 26.
Utica Cutlery Company, Utica, N. Y. Pocket and table knives. Serial No. 415,809; May 23. Class 23.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Mixture of accelerators capable of effecting vulcanization of rubber. Serial No. 417,671; May 23. Class 6.
Vanity Fair Silk Mills, Reading, Pa. Underwear. Serial No. 416,781; May 23. Class 39.
Venus Corporation, New York, N. Y. Hoods, face make-up, and clothes. Serial No. 417,190; May 23. Class 40.
Vermont Marble Company, Proctor, Vt. Marble provided with a water-proof finish. Serial No. 417,151; May 23. Class 1.
Vi-Jon Laboratories, Inc., St. Louis, Mo. Hair dressing preparations. Serial No. 416,821; May 23. Class 6.
Von Hensler, B. A., New York, N. Y. Foundation garments. Serial No. 415,365; May 23. Class 39.
Voogt, C. E., Candy Co., Chicago, Ill. Chocolate coated candies. Serial No. 416,665; May 23. Class 46.
Wagner, Nicholas H., Jr., Media, Pa. Leather horse boots. Serial No. 417,316; May 23. Class 3.
Walton, A. G., & Co., Inc., Chelsea, Mass. Rubber soles. Serial No. 415,429; May 23. Class 39.
Wartsky, Morris, New York, N. Y. Boleros, jackets, vests, and blouses. Serial No. 417,243; May 23. Class 39.
Western Auto Supply Company, The, doing business as Western Auto Stores and as The Western Auto Supply Company, Kansas City, Mo. Paint. Serial No. 417,632; May 23. Class 16.
Western Venetian Blind Co., North Bergen, N. J. Venetian blinds, roller blinds, woodweb shades, etc. Serial No. 417,634; May 23. Class 32.
White, Morris, Mfg. Co., Inc., New York, N. Y. Handbags. Serial No. 417,245; May 23. Class 3.
Wilkes-Barre Lace Manufacturing Company, Wilkes-Barre, Pa., and New York, N. Y. Lace curtains. Serial No. 417,728; May 23. Class 42.
Williams Specialty Co. (See Siegel, William.)
Wolfe & Land, Inc., New York, N. Y. Corsets. Serial No. 417,392; May 23. Class 39.
Youngs Rubber Corporation, Inc., New York, N. Y. Ointment, Prophylactic. Serial No. 416,170; May 23. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Agicide Laboratories, Milwaukee, Wis. Foundry partings. 367,665; May 23; Serial No. 415,279; published Mar. 14, 1939. Class 1.
Alexander Woolen Company, Chicago, Ill. Woolen piece goods. 367,613; May 23; Serial No. 414,250; published Mar. 14, 1939. Class 42.
American Banker, Inc., New York, N. Y. Newspaper and a magazine and a section of a magazine. 367,631; May 23; Serial No. 414,718; published Mar. 7, 1939. Class 38.
American Dairies, Incorporated, Kansas City, Mo. Dehydrated cereal grasses, and extracts and juice of cereal grasses. 367,566; May 23; Serial No. 410,853; published Mar. 14, 1939. Class 6.
American La France Fire Engine Company, Inc., assignor to American LaFrance-Foamite Corporation, Elmira, N. Y. Fire apparatus. 125,861; renewed June 24, 1939.
American Society of Mechanical Engineers, The. (See Engineering Magazine Company, The, assignor.)
Ansehl, Benjamin, Company, The, St. Louis, Mo. Skin dressing. 367,672; May 23; Serial No. 415,491; published Mar. 14, 1939. Class 6.
Armstrong Cork Company. (See Whitall Tatum Company, assignor.)
Atlantic Food Packing Co. (See Rosenthal, Alex.)
Atlas Powder Company, Wilmington, Del. Derivatives of hexahydric alcohols and inner ethers thereof. 367,578; May 23; Serial No. 412,403; published Mar. 7, 1939. Class 6.
Autographic Register Company, Hoboken, N. J. Paper for autographic registers. 367,660; May 23; Serial No. 415,209; published Mar. 14, 1939. Class 37.
Automatic Bookkeeping Co. (See Gaskell, Harry B.)
Axilene Co. (See Germain, Alice M.)
Baker, Edward J., Stockton, Calif. Playing cards. 367,541; May 23; Serial No. 401,013; published Mar. 14, 1939. Class 22.
Baldwin, A., & Co., Limited, to A. Baldwin & Company, Inc., New Orleans, La., successor. Cutlery, machinery, and tools, and parts thereof. 125,556; renewed May 27, 1939.
Baldwin Liquors Corporation, New York, N. Y. Whiskeys, brandies, gins, etc. 367,713–15; May 23. Class 49.
Barber, Mary O., Everett, Ohio. Sausage, ham, lard, etc. 367,571; May 23; Serial No. 411,565; published Mar. 14, 1939. Class 46.
Bates, Hamilton C., doing business as C. J. Bates & Son, Chester, Conn. Preparations for treating the nails. 367,547; May 23; Serial No. 405,712; published Mar. 14, 1939. Class 6.
Bell, J. W., & Sons, Paris, Ky. Tobacco seed. 367,662; May 23; Serial No. 415,241; published Mar. 14, 1939. Class 1.
Bemis Bro. Bag Co., St. Louis, Mo. Paper bags. 367,612; May 23; Serial No. 414,213; published Feb. 28, 1939. Class 2.
Bermingham & Prosser Co., Chicago, Ill. Art papers. 367,661; May 23; Serial No. 415,240; published Mar. 14, 1939. Class 37.
Blecker & Stein, Philadelphia, Pa. Hair tonic, toilet water, face and toilet creams, and perfumes. 367,559; May 23; Serial No. 409,383; published Mar. 14, 1939. Class 6.
Bisceglia Brothers Corp., Philadelphia, Pa. Wines. 367,594; May 23; Serial No. 413,700; published Mar. 14, 1939. Class 47.
Bonner, James J., Boston, to J. J. Bonner, Malden, Mass. Disinfectant. 126,388; renewed Aug. 26, 1939.
Boot Mills, Lowell, Mass. Towels. 367,582; May 23; Serial No. 412,752; published Mar. 14, 1939. Class 42.
Bostick Brothers, Benoit, Miss. Butane and liquefied gas. 367,558; May 23; Serial No. 409,342; published Mar. 7, 1939. Class 6.
Bowman, Abram S., doing business as A. Smith Bowman Distillery, Sunset Hills, Va. Whiskey. 367,649; May 23; Serial No. 415,105; published Mar. 14, 1939. Class 49.
Brown, Clarence S., & Company, Inc., New York, N. Y. Cotton piece goods. 367,684; May 23. Class 42.
Brown, Stanley C., Ithaca, Mich. Toothpaste. 367,642; May 23; Serial No. 414,858; published Mar. 14, 1939. Class 6.
Brownstein-Louis Co., Los Angeles, Calif. Play suits. 367,690; May 23. Class 39.
Bryan Davis Publishing Company, Inc., New York, N. Y. Publication devoted to television and the like. 367,604; May 23; Serial No. 414,094; published Mar. 7, 1939. Class 38.
Buck Bros., doing business as Waterite Seed Flat Co., Middletown, N. Y. Sub-irrigated containers for holding seeds and plants to be transplanted. 367,624; May 23; Serial No. 414,589; published Mar. 7, 1939. Class 2.
Burd Model Airplane Company, Baltimore, Md. Model airplanes. 367,670; May 23; Serial No. 415,442; published Mar. 14, 1939. Class 22.
Burdick, Lyle W., doing business as W. J. Burdick Medicine Co., Milwaukee, Wis. Vegetable compounds for blood and nerve medicines. 367,543; May 23; Serial No. 401,552; published Mar. 7, 1939. Class 6.
Buzzo Sales Co. (See Thomas, Oliver.)
Camp, Samuel H., assignor to S. H. Camp & Company, Jackson, Mich. Corsets. 126,825; renewed Oct. 7, 1939.
Carbide and Carbon Chemicals Corporation, New York, N. Y. Solvents for dyestuffs and for use in oil refining. 367,605; May 23; Serial No. 414,095; published Mar. 7, 1939. Class 6.
Casco Company, The, Canton, Ohio. Laxative tablets. 127,176; renewed Oct. 21, 1939.
Chemical Industries, San Francisco, Calif. Liquid preparations for cleaning leather and fabric gloves, shoes, etc. 367,692; May 23. Class 4.
Chesapeake-Camp Corporation, Franklin, Va. Kraft paper. 367,655; May 23; Serial No. 415,157; published Mar. 14, 1939. Class 37.
Clairol, Inc., New York, N. Y. Hair dye removers and hair color removers. 367,614; May 23; Serial No. 414,287; published Mar. 14, 1939. Class 6.
Clark, Geo. V., Co., Inc., Long Island City, N. Y. Metal cans. 367,606; May 23; Serial No. 414,096; published Mar. 7, 1939. Class 2.
Clark-Millner Co., Chicago, Ill. Lipsticks. 367,600; May 23; Serial No. 413,976; published Mar. 7, 1939. Class 6.
Clark-Millner Co., Chicago, Ill. Lipsticks. 367,601; May 23; Serial No. 413,978; published Mar. 7, 1939. Class 6.
Clavin, Tucker & Company, Chicago, Ill. Liquid dentifrice. 367,583; May 23; Serial No. 412,754; published Mar. 14, 1939. Class 6.
Clinical Products Limited, London, England. Medicated tablets. 367,648; May 23; Serial No. 415,095; published Mar. 7, 1939. Class 6.
Colgate-Palmolive-Peet Company. (See Palmolive Company, The, assignor.)
Colloid Chemical Laboratories. (See Schuelke, Erich F. R.)
Commonwealth Varnish Company, Chicago, Ill. Varnishes and japans. 367,702; May 23. Class 16.
Continental Carbon Company, New York, N. Y. Carbon black. 367,617; May 23; Serial No. 414,383; published Mar. 14, 1939. Class 6.
Crown Fastener Corporation, Warren, R. I. Separable slide fasteners. 367,534; May 23; Serial No. 391,207; published July 5, 1938. Class 13.
Daily Mirror, Inc., New York, N. Y. Newspaper section. 367,627; May 23; Serial No. 414,626; published Mar. 7, 1939. Class 38.
Dana, S. A., Paris, France. Perfumes, face creams, toilet water, etc. 367,637; May 23; Serial No. 414,822; published Mar. 14, 1939. Class 6.
Davidson Bros., New York, N. Y. Ladies' slips. 367,685; May 23. Class 39.
Del Monte-Hickey Company, Inc., New York, N. Y. Coats, suits, dresses, etc. 367,677; May 23. Class 39.
Dietetic Research Laboratories, Inc., Bloomfield, N. J. Preparation of vitamins and minerals. 367,608; May 23; Serial No. 414,143; published Mar. 14, 1939. Class 6.
Distillerie de la Suze (Société Anonyme), Maisons-Alfort, France. Alcoholic liqueurs. 367,609; May 23; Serial No. 414,183; published Mar. 14, 1939. Class 49.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Graphite. 367,528; May 23; Serial No. 370,760; published Dec. 3, 1935. Class 1.
Doho Chemical Corporation, The, New York, N. Y. Osmotherapeutic treatment of ear diseases, ear drops. 367,610; May 23; Serial No. 414,185; published Mar. 7, 1939. Class 6.
Drossinos, Mike, Brooklyn, N. Y. Tonic for the scalp. 367,656; May 23; Serial No. 415,159; published Mar. 14, 1939. Class 6.
Dyersburg Cotton Products, Inc., Dyersburg, Tenn. Knitted cloth piece goods. 367,599; May 23; Serial No. 413,931; published Mar. 14, 1939. Class 42.
E. L-Vim Mfg. Co. (See Lindon, Elvin.)
Eisendrath, B. D., Tanning Company, Chicago, Ill. Leather. 367,625; May 23; Serial No. 414,596; published Mar. 14, 1939. Class 1.
Elm Cycle & Auto Supply Co., Westfield, Mass. Artificial fishing lures and hooks. 367,650; May 23; Serial No. 415,112; published Mar. 14, 1939. Class 22.
Emory, Mabel H., doing business as The Rototox Company, East Williston, N. Y. Insecticidal sprays. 367,573; May 23; Serial No. 411,989; published Feb. 28, 1939. Class 6.
Engineering Magazine Company, The, assignor to The American Society of Mechanical Engineers, New York, N. Y. Prints and publications. 126,228; renewed Aug. 5, 1939.
Estmont Company, Vermilion, Ohio. Foundation creams, beauty creams, cream rouges, etc. 367,564; May 23; Serial No. 410,691; published Mar. 7, 1939. Class 6.

F-R-X Manufacturing Company, The, Norwalk, Ohio. Mechanical fire-extinguishers. 126,537; renewed Sept. 16, 1939.
Fan Tan Company, Inc., doing business as The Gold Star Tooth Powder Co., Chicago, Ill. Tooth powder. 367,545; May 23; Serial No. 404,518; published Mar. 7, 1939. Class 6.
Food Dispenser Company, The, Hartford, Conn. Dispensing containers and the like. 367,568; May 23; Serial No. 411,449; published Mar. 7, 1939. Class 2.
Ford Collieries Company, Pittsburgh, Pa., and Detroit, Mich. Bituminous coal. 126,538; renewed Sept. 16, 1939.
Foster Grant Co. Inc., Leominster, Mass. Goggles and sunglasses. 367,682; May 23. Class 26.
Fritzsche Brothers, Inc., New York, N. Y. Oil of peppermint. 367,552–3; May 23; Serial Nos. 408,096–7; published Mar. 7, 1939. Class 6.
Fruit Industries, Ltd., San Francisco, Calif., and New York, N. Y. Wines. 367,563; May 23; Serial No. 410,464; published Mar. 14, 1939. Class 47.
Fuller Brush Company, The, Hartford, Conn. Floor polish. 367,704; May 23. Class 16.
Gaskell, Harry B., doing business as Automatic Bookkeeping Co., Long Beach, Calif. Information pamphlets and specially ruled sheets for income tax data. 367,579; May 23; Serial No. 412,446; published Mar. 14, 1939. Class 37.
Gates, J. I., Millink Company, The, Columbus, Ohio. Feed concentrate for stock. 367,556; May 23; Serial No. 408,602; published Mar. 14, 1939. Class 46.
General Chemical Company, New York, N. Y. Spray compound. 367,550; May 23; Serial No. 406,128; published Mar. 14, 1939. Class 6.
General Dyestuff Corporation, New York, N. Y. Washing and scouring agent. 367,628; May 23; Serial No. 414,656; published Mar. 14, 1939. Class 4.
General Electric Company, Schenectady, N. Y. Soldering paste and for soldering flux. 367,621; May 23; Serial No. 414,494; published Mar. 14, 1939. Class 6.
General Mills, Inc., Minneapolis, Minn. Flour. 367,619; May 23; Serial No. 414,443; published Mar. 14, 1939. Class 46.
General Tire & Rubber Company, Akron, Ohio. Game. 367,671; May 23; Serial No. 415,474; published Mar. 14, 1939. Class 22.
Germain, Alice M., doing business as Axilene Co., Boston, Mass. Liquid body deodorant. 367,620; May 23; Serial No. 414,445; published Mar. 7, 1939. Class 6.
Gerson, Sam, Philadelphia, Pa. Suits and overcoats. 367,699; May 23. Class 39.
Glickman, Simon, doing business as Steppin Sam Company, Philadelphia, Pa. Wooden figure toys. 367,598; May 23; Serial No. 413,826; published Mar. 14, 1939. Class 22.
Gold Star Tooth Powder Co., The. (See Fan Tan Company, Inc.)
Goodrich & Love. (See Love, Max A.)
Graino Feed Mills. (See Stewart, A. E., and M. H. Stewart.)
Great Star Coffee Corporation, New York, N. Y. Coffee, chocolate, and cocoa. 367,590; May 23; Serial No. 413,527; published Mar. 14, 1939. Class 46.
Gross, Joseph H., doing business as J. H. Gross & Co., Cleveland, Ohio. Pendants, bracelets, rings, etc. 367,695; May 23. Class 28.
Hamilton Manufacturing Company, Two Rivers, Wis. Furniture. 367,632; May 23; Serial No. 414,735; published Mar. 14, 1939. Class 32.
Harrison, Floyd, Publishing Co., Inc., New York, N. Y. Magazine. 367,560; May 23; Serial No. 409,520; published Mar. 7, 1939. Class 38.
Haywood Publishing Company, La Fayette, Ind., and Chicago, Ill. Periodical. 367,616; May 23; Serial No. 414,349; published Mar. 7, 1939. Class 38.
Heating Equipment Service Company. (See Norton, Andrew F.)
Herb Juice-Penol Company, Inc., Danville, Va. Foot preparation. 367,555; May 23; Serial No. 408,485; published Mar. 14, 1939. Class 6.
Hercules Liquor Products Corp., Brooklyn, N. Y. Rum. 367,668; May 23; Serial No. 415,390; published Mar. 14, 1939. Class 49.
Hercules Powder Company, Wilmington, Del. Pyroxylin plastics. 127,189; renewed Oct. 21, 1939.
Hercules Powder Company, Wilmington, Del. Synthetic textile finishing agent. 367,618; May 23; Serial No. 414,402; published Mar. 14, 1939. Class 6.
Herendeen-Avery, Inc., Miami, Fla. Piece goods. 367,629; May 23; Serial No. 414,659; published Mar. 14, 1939. Class 42.
Hill, F. H., Company, Inc., Cleveland, Ohio. Burial caskets. 367,688; May 23. Class 2.
Holdren, George F., Philipsburg, Pa. Trousers and overalls. 367,697; May 23. Class 39.
Honorco, Inc., Chicago, Ill. Canned fruits and vegetables, tomato juice, etc. 367,539; May 23; Serial No. 400,103; published Mar. 14, 1939. Class 46.
Hooven & Allison Company, The, Xenia, Ohio. Rope. 126,168; renewed July 29, 1939.
House of Gurney, Inc., Yankton, S. Dak. Apple trees. 367,680; May 23. Class 1.
Human Relations, Inc., Chicago, Ill. Periodical. 367,630; May 23; Serial No. 414,661; published Mar. 7, 1939. Class 38.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Colloidal preparations. 367,577; May 23; Serial No. 412,259; published Mar. 14, 1939. Class 6.
Ihle-Belhardt Company, The, Seattle, Wash. Pharmaceutical preparation. 367,561; May 23; Serial No. 409,648; published Mar. 14, 1939. Class 6.
Industrial Soap Co., St. Louis, Mo. Shampoo. 367,567; May 23; Serial No. 411,225; published Dec. 27, 1938. Class 6.
Insulite Company, The, Minneapolis, Minn. Fiber insulation material. 367,698; May 23. Class 12.
International Silver Company, Jersey City, N. J., and Meriden, Conn., to International Silver Company, Meriden, Conn. Unplated base-alloy tableware. 126,699; renewed Sept. 30, 1939.
INnternational Silver Company, Jersey City, N. J., and Meriden, Conn., to International Silver Company, Meriden, Conn. Table-knives made of base metal. 126,939; renewed Oct. 14, 1939.
Interstate Cotton Oil Refining Co., Sherman, Tex. Vegetable oil shortening. 367,645; May 23; Serial No. 415,000; published Mar. 14, 1939. Class 46.
Ivis Company, Inc., The, New York, N. Y. Lotions and face packs. 367,538; May 23; Serial No. 398,164; published Mar. 14, 1939. Class 6.
Jefferies Company, The, Bluefield, W. Va. Cold capsules, liver pills, cough syrup, etc. 367,540; May 23; Serial No. 400,909; published Mar. 14, 1939. Class 6.
Jordan, Charles D., doing business as C. D. Jordan Laboratory, Monticello, Ga. Vermifuge. 367,565; May 23; Serial No. 410,839; published Mar. 14, 1939. Class 6.
Jordan Mills, Inc., Columbus, Ga. Furniture slip covers. 367,669; May 23; Serial No. 415,398; published Mar. 14, 1939. Class 32.
Kahoe, Walter, Yellow Springs, Ohio. Magazine. 367,602; May 23; Serial No. 413,992; published Mar. 7, 1939. Class 38.
Kehlas, Louis S., Mattoon, Ill. Candy. 367,701; May 23. Class 46.
Kent, Lehr & Fitch, Inc., New York, N. Y. Rayon textiles and window curtains or drapes made of such materials. 367,705; May 23. Class 42.
Kolliner St. Croix Garment Company, Stillwater, Minn. Outer garments. 367,674; May 23. Class 39.
Koscherak Siphon Bottle Works, Hoboken, N. J., to Otto L. Koscherak, doing business as Seal-Again Bottle Stopper Co., New York, N. Y., successor. Bottle-stoppers, bottle-caps, and jar-closures. 126,306; renewed Aug. 19, 1939.
Laboratoires Valdor Société à Responsibilité Limitée, Puteaux, France. Beauty products. 367,574; May 23; Serial No. 412,079; published Mar. 7, 1939. Class 6.
Lawrence, A. C., Leather Co., Boston, to A. C. Lawrence Leather Company, Peabody, Mass. Leather. 125,232; renewed Apr. 22, 1939.
Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Suits. 367,686; May 23. Class 39.
Lewiston Bleachery and Dye Works, Lewiston, Maine, assignor to Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. 126,711; renewed Sept. 30, 1939.
Lilly, Eli, and Company, Indianapolis, Ind. Rabbit antipneumococcic serum. 367,651–2; May 23; Serial Nos. 415,129–30; published Mar. 14, 1939. Class 6.
Lindon, Elvin, doing business as E. L-Vim Mfg. Co., Cincinnati, Ohio. Medical preparation. 367,633; May 23; Serial No. 414,745; published Mar. 7, 1939. Class 6.
Linker & Herbert, Inc., New York, N. Y. Woolen and wool mixture fabrics. 367,634; May 23; Serial No. 414,746; published Mar. 14, 1939. Class 42.
Love, Max A., doing business as Goodrich & Love, New York, N. Y. Effervescent remineralizing dentifrice. 367,623; May 23; Serial No. 414,571; published Mar. 14, 1939. Class 6.
Mariana Grove Packers, Inc., Fort Myers, Fla. Fresh citrous fruits. 367,557; May 23; Serial No. 409,048; published Mar. 14, 1939. Class 46.
Matthews, Walter S., De Funiak Springs, Fla. Ointment. 367,554; May 23; Serial No. 408,354; published Mar. 14, 1939. Class 6.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Shirts and pajamas. 367,703; May 23. Class 39.
Menasha Products Company, Menasha, Wis. Paper napkins. 367,653; May 23; Serial No. 415,132; published Mar. 14, 1939. Class 37.
Meredith Publishing Company, Des Moines, Iowa. Magazine section. 367,595; May 23; Serial No. 413,727; published Mar. 7, 1939. Class 38.
Metaksa, George, New York, N. Y. Furniture polish. 367,712; May 23. Class 16.
Metz, Ray, Monte Vista, Colo. Potatoes. 367,675; May 23. Class 46.
Midland Chemical Laboratories, Inc., Dubuque, Iowa. Insecticides. 367,673; May 23; Serial No. 415,556; published Mar. 14, 1939. Class 6.

Midland Optical Company. (See New Era Optical Company.)
Miller & Hollis, Inc., Boston, Mass. Chocolates. 367,657; May 23; Serial No. 415,177; published Mar. 14, 1939. Class 46.
Miller & Hollis, Inc., Boston, Mass. Chocolates. 367,658; May 23; Serial No. 415,179; published Mar. 14, 1939. Class 46.
Misenta Pine Products, Inc., Buffalo, N. Y. Cosmetics and toilet preparations. 367,572; May 23; Serial No. 411,750; published Mar. 7, 1939. Class 6.
Monsanto Chemical Company, St. Louis, Mo. Metal treating agents. 367,581; May 23; Serial No. 412,655; published Mar. 7, 1939. Class 6.
Morse, Lockhart & Morse, Inc., Boston, Mass. Fuel control valves. 367,531; May 23; Serial No. 388,275; published Apr. 20, 1937. Class 13.
Morty, George A., Company, Miami, Fla. Insecticides. 367,666; May 23; Serial No. 415,300; published Mar. 14, 1939. Class 6.
Mother Asther's Own Farm. (See Strasberg, A.)
Moxie Company, The, Boston, Mass. Beverages. 367,681; May 23. Class 45.
Naturway Products Co. (See Schulman, Nathan.)
Newbro Manufacturing Company, Atlanta, Ga. Hair dressing. 367,622; May 23; Serial No. 414,502; published Mar. 14, 1939. Class 6.
New Era Optical Company, also doing business as Midland Optical Company, Chicago, Ill. Sun glasses. 367,643; May 23; Serial No. 414,885; published Mar. 14, 1939. Class 26.
New York Mackintosh Clothing Company, New York, N. Y. Clothing. 127,159; renewed Oct. 21, 1939.
Nobilit-Sparks Industries, Inc., Columbus, Ind. Vehicle heaters. 367,700; May 23. Class 19.
Northern Paper Mills, Green Bay, Wis. Toilet tissue paper. 367,646–7; May 23; Serial Nos. 415,067–8; published Mar. 14, 1939. Class 37.
Norton, Andrew F., doing business as Heating Equipment Service Company, New Britain, Conn. Compound for removing scale, carbon and soot from the combustion side of boilers. 367,584; May 23; Serial No. 412,845; published Mar. 7, 1939. Class 6.
Oelerich & Berry Co., Chicago, Ill. Molasses. 367,586; May 23; Serial No. 412,916; published Mar. 14, 1939. Class 46.
Oliver Tire & Rubber Company, Oakland, Calif. Rubber tires. 367,654; May 23; Serial No. 415,136; published Mar. 14, 1939. Class 35.
Osco Motors Corporation, Philadelphia, Pa. Engines and engine parts. 367,551; May 23; Serial No. 407,324; published Mar. 14, 1939. Class 23.
Palmolive Company, The, Milwaukee, Wis., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet powders. 126,740–1; renewed Sept. 30, 1939.
Palmolive Company, The, Milwaukee, Wis., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Face-powder. 126,742; renewed Sept. 30, 1939.
Patterson, Eleanor M., doing business as Patterson Newspapers and/or Washington Herald-Times, Washington, D. C. News column and special articles. 367,635; May 23; Serial No. 414,752; published Mar. 7, 1939. Class 38.
Pepperell Manufacturing Company. (See Lewiston Bleachery and Dye Works, assignor.)
Pfluger, A. J., Brillion, Wis. Liniment. 367,535; May 23; Serial No. 396,930; published Nov. 16, 1937. Class 6.
Pittston Brewing Corporation, Pittston, Pa. Ale. 367,549; May 23; Serial No. 406,102; published Mar. 14, 1939. Class 48.
Polyfoto Corporation, Bridgeport, Conn. Photographs. 367,676; May 23. Class 38.
Popular Science Publishing Co., Inc., New York, N. Y. Magazines. 367,611; May 23; Serial No. 414,207; published Mar. 7, 1939. Class 38.
Pritzlaff, John, Hardware, Co., Milwaukee, Wis. Cutlery, machinery, and tools, and parts thereof. 126,955; Renewed Oct. 14, 1939.
Pure Milk Cheese Co., Elgin, Ill. Cheese. 367,532; May 23; Serial No. 389,695; published Mar. 14, 1939. Class 46.
Radway & Co., Inc., New York, N. Y. Preparation for dyspepsia, heartburn, etc. 367,589; May 23; Serial No. 413,363; published Mar. 14, 1939. Class 6.
Rheingold Cheese Company, Chicago, Ill. Cheese. 367,663; May 23; Serial No. 415,258; published Mar. 14, 1939. Class 46.
Rice-Friedman Co., Milwaukee, Wis. Men's and boys' clothing. 367,679; May 23. Class 39.
Riegel Paper Corporation, Riegelsville, N. J.; and New York, N. Y. Wrapping paper. 367,664; May 23; Serial No. 415,259; published Mar. 14, 1939. Class 37.
Rifa, Bacardi y Compañia, Camaguey, Cuba. Rum. 367,526; May 23; Serial No. 1294 (Inter-American Series); published Mar. 7, 1939. Class 49.
Rilling-Arnao Company, Minneapolis, Minn. Permanent wave liquids and preparations. 367,542; May 23; Serial No. 401,195; published Mar. 7, 1939. Class 6.
Roccaforte, Nicholas J., Wichita, Kans. Leaflets and pamphlets. 367,615; May 23; Serial No. 414,318; published Mar. 7, 1939. Class 38.
Romig Clay Product Company, The, Uhrichsville, Ohio. Clay sewer pipe. 367,693; May 23. Class 12.
Rosenfeld, Harry, Inc., New York, N. Y. Ladies' purses, handbags, and pocketbooks. 367,626; May 23; Serial No. 414,604; published Mar. 7, 1939. Class 3.
Rosenthal, Alex, doing business as Atlantic Food Packing Co., Trenton, N. J. Shoestring potatoes. 367,596; May 23; Serial No. 413,739; published Mar. 14, 1939. Class 46.
Rotobac, Thomas, Company, Chadbourn, N. C. Insecticide. 367,607; May 23; Serial No. 414,122; published Mar. 7, 1939. Class 6.
Rotobox Company, The. (See Emory, Mabel H.)
Rudley Sportswear, Inc., New York, N. Y. Women's jackets, suits, skirts, etc. 367,711; May 23. Class 39.
Schering & Glatz, Inc., assignor, by mesne assignments, to Schering & Glatz, Inc., New York, N. Y. Medicines. 126,774; renewed Sept. 30, 1939.
Schnelerson, I., & Sons, Inc., New York, N. Y. Chemises, princess slips, bloomers, etc. 367,709; May 23. Class 39.
Schuckl & Co., Inc., San Francisco, Calif. Canned soups. 367,636; May 23; Serial No. 414,803; published Mar. 14, 1939. Class 46.
Schuelke, Erich F. R., doing business as Colloid Chemical Laboratories, New York, N. Y. Chemicals, metal soaps, etc. 367,536; May 23; Serial No. 397,772; published Mar. 7, 1939. Class 6.
Schuelke, Erich F. R., doing business as Colloid Chemical Laboratories, New York, N. Y. Oils. 367,537; May 23; Serial No. 397,773; published Mar. 14, 1939. Class 6.
Schulman, Nathan, doing business as Naturway Products Co., Long Beach, Calif. Colon lubricating and body weight control preparation. 367,592; May 23; Serial No. 413,595; published Mar. 7, 1939. Class 6.
Scott, Henry L., Company, Providence, R. I. Testing machines. 367,706; May 23. Class 26.
Seal-Again Bottle Stopper Co. (See Koscherak Siphon Bottle Works.)
Seymour, Jane, Limited, London, England. Astringent lotions, acne lotions, anti-weather creams, etc. 367,533; May 23; Serial No. 390,282; published Mar. 14, 1939. Class 6.
Sheinman, Harry L., & Sons Inc., New York, N. Y. Fabrics in the piece. 367,691; May 23. Class 42.
Sherman, Charles Q., Corporation, The, New York, N. Y. Refrigerated cabinets. 367,644; May 23; Serial No. 414,906; published Mar. 14, 1939. Class 31.
Silver Manufacturing Company, The, assignor, by mesne assignments, to The Silver Manufacturing Company, Salem, Ohio. Cutlery, machinery, and tools and parts thereof. 126,608; renewed Sept. 23, 1939.
Simplex Products Corporation, Cleveland, Ohio. Piston pins and expanders, engine bearings, etc. 367,638–9; May 23; Serial Nos. 414,839–40; published Mar. 14, 1939. Class 23.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Crepe piece goods. 367,696; May 23. Class 42.
Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa. Elastic hydro-colloid material. 367,530; May 23; Serial No. 382,398; published Nov. 10, 1936. Class 44.
Societe Anonyme Grenoville, Asnieres(Seine), France. Perfumes, toilet waters, lotion, etc. 367,640–1; May 23; Serial Nos. 414,841–2; published Mar. 14, 1939. Class 6.
Société Anonyme "Les Tissus Soray", Paris, France. Silk, rayon, wool, and cotton piece goods. 367,585; May 23; Serial No. 412,880; published Mar. 14, 1939. Class 42.
Society of Chemical Industry in Basle, Basel, Switzerland. Coal tar colors. 367,603; May 23; Serial No. 414,013; published Mar. 7, 1939. Class 6.
Sommers, G., & Co., St. Paul, Minn. Hosiery. 126,904; renewed Oct. 7, 1939.
Spar, J. & J., Inc., New York, N. Y. Dresses. 367,694; May 23. Class 39.
Sponge Rubber Products Company, The, Derby, Conn. Play sets. 367,562; May 23; Serial No. 409,852; published Mar. 14, 1939. Class 22.
Squirt Company, The, Glendale, Ariz.; and Milwaukee, Wis. Grapefruit drink and bases and syrups and extracts for making same. 367,659; May 23; Serial No. 415,203; published Mar. 14, 1939. Class 45.
Standard Romper Co., Inc., New York, N. Y. Children's clothing. 367,683; May 23. Class 39.
Steppin Sam Company. (See Glickman, Simon.)
Stewart, A. E., and M. H. Stewart, doing business as Graino Feed Mills, Greensboro, N. C. Dog food. 367,588; May 23; Serial No. 413,343; published Feb. 21, 1939. Class 46.
Strasberg, A., doing business as Mother Asther's Own Farm, East Stroudsburg, Pa. Tomato juice. 367,593; May 23; Serial No. 413,653; published Mar. 14, 1939. Class 46.
Stuyvesant Cigar Company, Incorporated, New York, N. Y. Smoking tobacco. 367,587; May 23; Serial No. 413,284; published Mar. 14, 1939. Class 17.
Temple Stephens Co., Moberly, Mo. Baking powder. 367,544; May 23; Serial No. 404,332; published Mar. 14, 1939. Class 46.
Tepper, J. Saul, Baltimore, Md. Antiseptic medicated aid in relief of burns, cuts, etc. 367,576; May 23; Serial No. 412,235; published Mar. 14, 1939. Class 6.

Thomas, Oliver, also doing business as Buzzo Sales Co., San Antonio, Tex. Game of chance. 367,597; May 23; Serial No. 413,745; published Mar. 14, 1939. Class 22.
Torney, John, Elmhurst, N. Y. Cigars. 367,667; May 23; Serial No. 415,313; published Mar. 14, 1939. Class 17.
Trico Products Corporation, Buffalo, N. Y. Windshield wiper blades. 367,527; May 23; Serial No. 347,892; published Mar. 14, 1939. Class 19.
Triumph Hosiery Mills, Inc., New York, N. Y. Hosiery. 367,707–8; May 23. Class 39.
Turman, Alfred, New York, N. Y. Insecticide. 367,560; May 23; Serial No. 411,474; published Mar. 7, 1939. Class 6.
Turner Manufacturing Company, Chattanooga, Tenn. Shirts, pants, jackets, dresses. 367,710; May 23. Class 39.
Uullrich, Hans P., Philadelphia, Pa. Preparation to be used in conjunction with wound dressings, also douches or as a gargle. 367,575; May 23; Serial No. 412,120; published Mar. 7, 1939. Class 6.
Underwood, William, Company, Watertown, Mass. Canned deviled ham, fankfurts, sausages, etc. 367,570; May 23; Serial No. 411,513; published Mar. 14, 1939. Class 46.
Van Baalen, Heilbrun & Co., New York, N. Y. Men's robes. 367,678; May 23. Class 39.
Vellner, Eugene, Philadelphia, Pa. Soaps. 127,156; renewed Oct. 21, 1939.
Viking Air Conditioning Corporation, The, Cleveland, Ohio. Ventilating fans, blowers, air conditioning units and systems. 367,529; May 23; Serial No. 374,030; published Apr. 28, 1936. Class 34.
W. & H. Jewelry Company, Providence, R. I. Watch chains, tie chains, key chains, etc. 367,687; May 23. Class 28.
Waples Platter Company, Fort Worth, Tex. Wooden cases. 367,689; May 23. Class 2.
Washington Herald-Times. (See Patterson, Eleanor M.)
Waterite Seed Fair Co. (See Buck Bros.)
Whitall Tatum Company, New York, N. Y., assignor to Armstrong Cork Company, Lancaster, Pa. Elastic nursing-nipples. 126,973; renewed Oct. 14, 1939.
Williams, J. B., Company, The, Glastonbury, Conn. Fact and intelligence test publications. 367,548; May 23; Serial No. 406,005; published Mar. 7, 1939. Class 38.
Worcester Salt Company, New York, N. Y. Tooth paste. 367,580; May 23; Serial No. 412,621; published Mar. 7, 1939. Class 6.
Zip Abrazive Company, The, Cleveland, Ohio. Carbon removing compound. 367,591; May 23; Serial No. 413,531; published Mar. 7, 1939. Class 6.
Zraick, Fouad A., doing business as F. A. Zraick & Co., Brooklyn, N. Y. Salve for piles. 367,546; May 23; Serial No. 404,621; published Mar. 7, 1939. Class 6.

LIST OF REGISTRANTS OF LABELS

American Bakeries Company, Atlanta, Ga. "Baked-In" Freshness. For Sandwich Loaves. 53,007; May 23.
American Bakeries Company, Atlanta, Ga. "Baked-In" Flavor. For Bread. 53,008; May 23.
Bitter Root Cooperative Creamery Co., Stevensville, Mont. Gold Bar Butter. For Butter. 53,009; May 23.
Blue Earth Canning Company, Blue Earth, assignor to Minnesota Valley Canning Company, Le Sueur, Minn. Lindy. For Canned Peas. 53,010; May 23.
Bradshaw, R. D., and Sons, Wendell, Idaho. Bradshaw's. For Honey. 53,011; May 23.
Dietzen's Bakery, Kokomo, Ind. Holsum. For Bread. 53,012; May 23.
Fifth Ave. Products Company. (See Freed, Clarence J.)
Freed, Clarence J., doing business as Fifth Ave. Products Company, Youngstown, Ohio. Klean Kleaner Window Cleaner. For a Window Cleaner. 53,013; May 23.
Ghirardelli, D., Co., San Francisco, Calif. Parrot Brand Chocolate Flavored Dairy Flavor. For Chocolate Flavored Drink Base. 53,014; May 23.
Menasha Products Company, Menasha, Wis. Sliced Menasha Bread. For Bread. 53,015; May 23.
Menasha Products Company, Menasha, Wis. Fresh Menasha Sliced Bread. For Bread. 53,016; May 23.
Menasha Products Company, Menasha, Wis. Princess Ice Cream. For Ice Cream. 53,017; May 23.
Minnesota Valley Canning Company. (See Blue Earth Canning Company, assignor.)
Patent Cereals Company, The, Geneva, N. Y. Prepared Dic-A-Doo Waterless Type Cleaner. For a Waterless Type Cleaner. 53,018; May 23.
Penick & Ford, Ltd. Incorporated, New York, N. Y. Penick. For a Syrup. 53,019; May 23.
Silver, David, Johnson City, Tenn. Lovely Lady. For Wedding Rings. 53,020; May 23.
Trouche, Paul E., Charleston, S. C. Chief Lucky. For Note Book Filler Paper. 53,021; May 23.

LIST OF REGISTRANTS OF PRINTS

Dickerson Manufacturing Co., Springfield, Mo. Mexihot Barbecue Sandwiches. For Barbecue Sandwiches. 17,395; May 23.
Maiden Form Brassiere Company, Inc., New York, N. Y. "Adagio". For Brassières of the Character Illustrated in Said Print. 17,397; May 23.
Maiden Form Brassiere Company, Inc., New York, N. Y. "Adagio" Long Line. For Long Line Brassières. 17,396; May 23.
Vogue Rubber Company, Chicago, Ill. Why Vogue. For Automobile Tires. 17,398; May 23.
Weyerhaeuser Sales Company, St. Paul, Minn. Timber Is a Crop. For Timber and Other Forest Products. 17,399; May 23.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Bituminous. Ford Collieries Company. 126,538; renewed Sept. 16, 1939.
Graphite. Joseph Dixon Crucible Company. 367,528; May 23; Serial No. 370,760; published Dec. 3, 1935.
Leather. B. D. Eisendrath Tanning Company. 367,625; May 23; Serial No. 414,596; published Mar. 14, 1939.
Leather. A. C. Lawrence Leather Co. 125,232; renewed Apr. 22, 1929.
Partings, Foundry. Agicide Laboratories. 367,665; May 23; Serial No. 415,279; published Mar. 14, 1939.
Plastics, Pyroxylin. Hercules Powder Company. 127,189; renewed Oct. 21, 1939.
Seed, Tobacco. J. W. Bell & Sons. 367,662; May 23; Serial No. 415,241; published Mar. 14, 1939.
Trees, Apple. House of Gurney, Inc. 367,680; May 23.

CLASS 2

Bags, Paper. Bemis Bro. Bag Co. 367,612; May 23; Serial No. 414,213; published Feb. 28, 1939.
Cans, Metal. Geo. V. Clark Co. 367,606; May 23; Serial No. 414,096; published Mar. 7, 1939.
Cases, Wooden. Waples Platter Company. 367,689; May 23.
Caskets, Burial. F. H. Hill Company. 367,688; May 23.
Containers and the like, Dispensing. Food Dispenser Company. 367,568; May 23; Serial No. 411,449; published Mar. 7, 1939.
Containers for holding seeds and plants to be transplanted, Sub-irrigated. Buck Bros. 367,624; May 23; Serial No. 414,589; published Mar. 7, 1939.

CLASS 3

Purses, handbags, and pocketbooks, Ladies'. Harry Rosenfeld Inc. 367,626; May 23; Serial No. 414,604; published Mar. 7, 1939.

CLASS 4

Preparation for cleaning leather and fabric gloves, shoes, etc., Liquid. Chemical Industries. 367,692; May 23.
Soaps. E. Vellner. 127,156; renewed Oct. 21, 1939.
Washing and scouring agent. General Dyestuff Corporation. 367,628; May 23; Serial No. 414,656; published Mar. 14, 1939.

CLASS 6

Antipneumococcic serum, Rabbit. Eli Lilly and Company. 367,651–2; May 23; Serial Nos. 415,129–30; published Mar. 14, 1939.
Antiseptic medicated aid in relief of burns, cuts, etc. J. S. Tepper. 367,576; May 23; Serial No. 412,235; published Mar. 14, 1939.
Beauty products. Laboratories Valdor Société à Responsibilité Limitée. 367,574; May 23; Serial No. 412,079; published Mar. 7, 1939.
Butane and liquefied gas. Bostick Brothers. 367,558; May 23; Serial No. 409,342; published Mar. 7, 1939.

Capsules, liver pills, cough syrup, etc., Cold. Jefferies Company. 367,540; May 23; Serial No. 400,909; published Mar. 14, 1939.
Carbon black. Continental Carbon Company. 367,617; May 23; Serial No. 414,383; published Mar. 14, 1939.
Carbon removing compound. Zip Abrasive Company. 367,591; May 23; Serial No. 413,531; published Mar. 7, 1939.
Chemicals, metal soaps, etc. E. F. R. Schuelke. 367,536; May 23; Serial No. 397,772; published Mar. 7, 1939.
Colloid preparations. I. G. Farbenindustrie Aktiengesellschaft. 367,577; May 23; Serial No. 412,259; published Mar. 14, 1939.
Colon lubricating and body weight control preparation. N. Schulman. 367,592; May 23; Serial No. 413,595; published Mar. 7, 1939.
Colors, Coal tar. Society of Chemical Industry in Basle. 367,603; May 23; Serial No. 414,013; published Mar. 7, 1939.
Compound for removing scale, carbon, and soot from the combustion side of boilers. A. F. Norton. 367,584; May 23; Serial No. 412,845; published Mar. 7, 1939.
Cosmetics and toilet preparations. Misenta Pine Products, Inc. 367,572; May 23; Serial No. 411,750; published Mar. 7, 1939.
Creams, beauty creams, cream rouges, etc., Foundation. Estmont Company. 367,564; May 23; Serial No. 410,691; published Mar. 7, 1939.
Dehydrated cereal grasses, and extracts and juice of cereal grasses. American Dairies, Incorporated. 367,566; May 23; Serial No. 410,853; published Mar. 14, 1939.
Dentifrice, Effervescent remineralizing. M. A. Love. 367,623; May 23; Serial No. 414,571; published Mar. 14, 1939.
Dentifrice, Liquid. Clavin, Tucker & Company. 367,583; May 23; Serial No. 412,754; published Mar. 14, 1939.
Deodorant, Liquid body. A. M. Germain. 367,620; May 23; Serial No. 414,445; published Mar. 7, 1939.
Derivatives of hexahydric alcohols and inner ethers thereof. Atlas Powder Company. 367,578; May 23; Serial No. 412,403; published Mar. 7, 1939.
Disinfectant. J. J. Bonner. 126,388; renewed Aug. 26, 1939.
Foot preparation. Herb Juice-Penol Company. 367,555; May 23; Serial No. 408,485; published Mar. 14, 1939.
Hair dressing. Newbro Manufacturing Company. 367,622; May 23; Serial No. 414,502; published Mar. 14, 1939.
Hair dye and hair color removers. Clairol Inc. 367,614; May 23; Serial No. 414,287; published Mar. 14, 1939.
Hair tonic, toilet water, face and toilet creams, and perfumes. Blecker & Stein. 367,559; May 23; Serial No. 409,383; published Mar. 14, 1939.
Insecticidal sprays. M. H. Emory. 367,573; May 23; Serial No. 411,989; published Feb. 28, 1939.
Insecticide. Thomas Rotobac Company. 367,607; May 23; Serial No. 414,122; published Mar. 7, 1939.
Insecticide. A. Turman. 367,569; May 23; Serial No. 411,474; published Mar. 7, 1939.
Insecticides. Midland Chemical Laboratories, Inc. 367,673; May 23; Serial No. 415,556; published Mar. 14, 1939.
Insecticides. George A. Morty Company. 367,666; May 23; Serial No. 415,300; published Mar. 14, 1939.
Laxative tablets. Casco Company. 127,176; renewed Oct. 21, 1939.
Liniment. A. J. Pfluger. 367,535; May 23; Serial No. 396,930; published Nov. 16, 1937.
Lipsticks. Clark-Millner Co. 367,601; May 23; Serial No. 413,978; published Mar. 7, 1939.
Lipsticks. Clark-Millner Co. 367,600; May 23; Serial No. 413,976; published Mar. 7, 1939.
Lotions, acne lotions, anti-weather creams, etc., Astringent. Jane Seymour Limited. 367,533; May 23; Serial No. 390,282; published Mar. 14, 1939.
Lotions and face packs. Ivis Company. 367,538; May 23; Serial No. 398,164; published Mar. 14, 1939.
Medical preparation. E. Lindon. 367,633; May 23; Serial No. 414,745; published Mar. 7, 1939.
Medicated tablets. Clinical Products Limited. 367,648; May 23; Serial No. 415,095; published Mar. 7, 1939.
Medicines. Schering & Glatz, Inc. 126,774; renewed Sept. 30, 1939.
Metal treating agents. Monsanto Chemical Company. 367,581; May 23; Serial No. 412,655; published Mar. 7, 1939.
Oil of peppermint. Fritzsche Brothers, Inc. 367,552–3; May 23; Serial Nos. 408,096–7; published Mar. 7, 1939.
Oils. E. F. R. Schuelke. 367,537; May 23; Serial No. 397,773; published Mar. 14, 1939.
Ointment. W. S. Matthews. 367,554; May 23; Serial No. 408,354; published Mar. 14, 1939.
Osmotherapeutic treatment of ear diseases, ear drops. Doho Chemical Corporation. 367,610; May 23; Serial No. 414,185; published Mar. 7, 1939.
Perfumes, face creams, toilet water, etc. Dana, S. A. 367,637; May 23; Serial No. 414,822; published Mar. 14, 1939.
Perfumes, toilet waters, lotion, etc. Societe Anonyme Grenoville. 367,640–1; May 23; Serial Nos. 414,841–2; published Mar. 14, 1939.
Pharmaceutical preparation. Ihle-Belhardt Company. 367,561; May 23; Serial No. 409,648; published Mar. 14, 1939.
Powder, Face. Palmolive Company. 126,742; renewed Sept. 30, 1939.
Powders, Toilet. Palmolive Company. 126,740–1; renewed Sept. 30, 1939.
Preparation for dyspepsia, heartburn, etc. Radway & Co. 367,589; May 23; Serial No. 413,363; published Mar. 14, 1939.
Preparation of vitamins and minerals. Dietetic Research Laboratories, Inc. 367,608; May 23; Serial No. 414,143; published Mar. 14, 1939.
Preparation to be used in conjunction with wound dressings, also douches or as a gargle. H. P. Ullrich. 367,575; May 23; Serial No. 412,120; published Mar. 7, 1939.
Preparations for treating the nails. H. C. Bates. 367,547; May 23; Serial No. 405,712; published Mar. 14, 1939.
Salve for piles. F. A. Zraick. 367,546; May 23; Serial No. 404,621; published Mar. 7, 1939.
Shampoo. Industrial Soap Co. 367,567; May 23; Serial No. 411,225; published Dec. 27, 1938.
Skin dressing. Benjamin Anschl Company. 367,672; May 23; Serial No. 415,491; published Mar. 14, 1939.
Soldering paste and for soldering flux. General Electric Company. 367,621; May 23; Serial No. 414,494; published Mar. 14, 1939.
Solvents for dyestuffs and for use in oil refining. Carbide and Carbon Chemicals Corporation. 367,605; May 23; Serial No. 414,095; published Mar. 7, 1939.
Spray compound. General Chemical Company. 367,550; May 23; Serial No. 406,128; published Mar. 14, 1939.
Textile finishing agent, Synthetic. Hercules Powder Company. 367,618; May 23; Serial No. 414,402; published Mar. 14, 1939.
Tonic for the scalp. M. Drossinos. 367,656; May 23; Serial No. 415,159; published Mar. 14, 1939.
Toothpaste. S. C. Brown. 367,642; May 23; Serial No. 414,858; published Mar. 14, 1939.
Tooth paste. Worcester Salt Company. 367,580; May 23; Serial No. 412,621; published Mar. 7, 1939.
Tooth powder. Fan Tan Company. 367,545; May 23; Serial No. 404,518; published Mar. 7, 1939.
Vegetable compounds for blood and nerve medicines. L. W. Burdick. 367,543; May 23; Serial No. 401,552; published Mar. 7, 1939.
Vermifuge. C. D. Jordan. 367,565; May 23; Serial No. 410,839; published Mar. 14, 1939.
Wave liquids and preparations, Permanent. Rilling-Arnao Company. 367,542; May 23; Serial No. 401,195; published Mar. 7, 1939.

CLASS 7

Rope. Hooven & Allison Company. 126,168; renewed July 29, 1939.

CLASS 12

Insulation material, Fiber. Insulite Company. 367,698; May 23.
Pipe, Clay sewer. Romig Clay Product Company. 367,693; May 23.

CLASS 13

Fasteners, Separable slide. Crown Fastener Corporation. 367,534; May 23; Serial No. 391,207; published July 5, 1938.
Valves, Fuel control. Morse, Lockhart & Morse, Inc. 367,531; May 23; Serial No. 388,275; published Apr. 20, 1937.

CLASS 16

Polish, Floor. Fuller Brush Company. 367,704; May 23.
Polish, Furniture. G. Metaksa. 367,712; May 23.
Varnishes and japans. Commonwealth Varnish Company. 367,702; May 23.

CLASS 17

Cigars. J. Torney. 367,667; May 23; Serial No. 415,313; published Mar. 14, 1939.
Tobacco, Smoking. Stuyvesant Cigar Company. 367,587; May 23; Serial No. 413,284; published Mar. 14, 1939.

CLASS 19

Heaters, Vehicle. Noblitt-Sparks Industries, Inc. 367,700; May 23.
Wiper blades, Windshield. Trico Products Corporation. 367,527; May 23; Serial No. 347,892; published Mar. 14, 1939.

CLASS 22

Cards, Playing. E. J. Baker. 367,541; May 23; Serial No. 401,013; published Mar. 14, 1939.
Fishing lures and hooks, Artificial. Elm Cycle & Auto Supply Co. 367,650; May 23; Serial No. 415,112; published Mar. 14, 1939.
Game. General Tire & Rubber Company. 367,671; May 23; Serial No. 415,474; published Mar. 14, 1939.
Game of chance. O. Thomas. 367,597; May 23; Serial No. 413,745; published Mar. 14, 1939.
Model airplanes. Burd Model Airplane Company. 367,670; May 23; Serial No. 415,442; published Mar. 14, 1939.
Play sets. Sponge Rubber Products Company. 367,562; May 23; Serial No. 409,852; published Mar. 14, 1939.
Toys, Wooden figure. S. Glickman. 367,598; May 23; Serial No. 413,826; published Mar. 14, 1939.

CLASS 23

Cutlery, machinery, and tools, and parts thereof. A. Baldwin & Co. 125,556; renewed May 27, 1939.
Cutlery, machinery, and tools, and parts thereof. John Pritzlaff Hardware Co. 126,955; renewed Oct. 14, 1939.
Cutlery, machinery, and tools, and parts thereof. Silver Manufacturing Company. 126,608; renewed Sept. 23, 1939.
Engines and engine parts. Osco Motors Corporation. 367,551; May 23; Serial No. 407,324; published Mar. 14, 1939.
Fire apparatus. American La France Fire Engine Company. 125,861; renewed June 24, 1939.
Fire-extinguishers, Mechanical. F-R-X Manufacturing Company. 126,537; renewed Sept. 16, 1939.
Knives made of base metal, Table. International Silver Company. 126,939; renewed Oct. 14, 1939.
Piston pins and expanders, engine bearings, etc. Simplex Products Corporation. 367,639–9; May 23; Serial Nos. 414,839–40; published Mar. 14, 1939.
Tableware, Unplated base-alloy. International Silver Company. 126,699; renewed Sept. 30, 1939.

CLASS 26

Glasses, Sun. New Era Optical Company. 367,643; May 23. Serial No. 414,885; published Mar. 14, 1939.
Goggles and sunglasses. Foster Grant Co. Inc. 367,682; May 23.
Testing machines. Henry L. Scott Company. 367,706; May 23.

CLASS 28

Pendants, bracelets, rings, etc. J. H. Gross. 367,695; May 23.
Watch chains, tie chains, key chains, etc. W. & H. Jewelry Company. 367,687; May 23.

CLASS 31

Refrigerated cabinets. Charles Q. Sherman Corporation. 367,644; May 23; Serial No. 414,906; published Mar. 14, 1939.

CLASS 32

Furniture. Hamilton Manufacturing Company. 367,632; May 23; Serial No. 414,735; published Mar. 14, 1939.
Furniture slip covers. Jordan Mills, Inc. 367,669; May 23; Serial No. 415,398; published Mar. 14, 1939.

CLASS 34

Fans, blowers, air conditioning units and systems, Ventilating. Viking Air Conditioning Corporation. 367,529; May 23; Serial No. 374,030; published Apr. 28, 1936.

CLASS 35

Tires, Rubber. Oliver Tire & Rubber Company. 367,654; May 23; Serial No. 415,136; published Mar. 14, 1939.

CLASS 37

Pamphlets and specially ruled sheets for income tax data, Information. H. B. Gaskell. 367,579; May 23; Serial No. 412,446; published Mar. 14, 1939.
Paper for autographic registers. Autographic Register Company. 367,660; May 23; Serial No. 415,209; published Mar. 14, 1939.
Paper, Kraft. Chesapeake-Camp Corporation. 367,655; May 23; Serial No. 415,157; published Mar. 14, 1939.
Paper napkins. Menasha Products Company. 367,653; May 23; Serial No. 415,132; published Mar. 14, 1939.
Paper, Toilet tissue. Northern Paper Mills. 367,646–7; May 23; Serial Nos. 415,067–8; published Mar. 14, 1939.
Paper, Wrapping. Riegel Paper Corporation. 367,664; May 23; Serial No. 415,259; published Mar. 14, 1939.
Papers, Art. Bermingham & Prosser Co. 367,661; May 23; Serial No. 415,240; published Mar. 14, 1939.

CLASS 38

Leaflets and pamphlets. N. J. Roccaforte. 367,615; May 23; Serial No. 414,318; published Mar. 7, 1939.
Magazine. Floyd Harrison Publishing Co. 367,560; May 23; Serial No. 409,520; published Mar. 7, 1939.
Magazine. W. Kahoe. 367,602; May 23; Serial No. 413,992; published Mar. 7, 1939.
Magazine section. Meredith Publishing Company. 367,595; May 23; Serial No. 413,727; published Mar. 7, 1939.
Magazines. Popular Science Publishing Co. 367,611; May 23; Serial No. 414,207; published Mar. 7, 1939.
News column and special articles. E. M. Patterson. 367,635; May 23; Serial No. 414,752; published Mar. 7, 1939.
Newspaper and a magazine and a section of a magazine. American Banker, Inc. 367,631; May 23; Serial No. 414,718; published Mar. 7, 1939.
Newspaper section. Daily Mirror, Inc. 367,627; May 23; Serial No. 414,626; published Mar. 7, 1939.
Periodical. Haywood Publishing Company. 367,616; May 23; Serial No. 414,349; published Mar. 7, 1939.
Periodical. Human Relations, Inc. 367,630; May 23; Serial No. 414,661; published Mar. 7, 1939.
Photographs. Polyfoto Corporation. 367,676; May 23.
Prints and publications. Engineering Magazine Company. 126,228; renewed Aug. 5, 1939.
Publication devoted to television and the like. Bryan Davis Publishing Company. 367,604; May 23; Serial No. 414,094; published Mar. 7, 1939.
Publications, Fact and intelligence test. J. B. Williams Company. 367,548; May 23; Serial No. 406,005; published Mar. 7, 1939.

CLASS 39

Chemises, princess slips, bloomers, etc. I. Schneierson & Sons, Inc. 367,709; May 23.
Clothing. New York Mackintosh Clothing Company. 127,159; renewed Oct. 21, 1939.
Clothing, Children's. Standard Romper Co. 367,683; May 23.
Clothing, Men's and boys. Rice-Friedman Co. 367,679; May 23.
Coats, suits, dresses, etc. Del Monte-Hickey Company. 367,677; May 23.
Corsets. S. H. Camp. 126,825; renewed Oct. 7, 1939.
Dresses. J. & J. Spar, Inc. 367,694; May 23.
Garments, Outer. Koilner St. Croix Garment Company. 367,674; May 23.
Hosiery. G. Sommers & Co. 126,904; renewed Oct. 7, 1939.
Hosiery. Triumph Hosiery Mills, Inc. 367,707–8; May 23.
Jackets, suits, skirts, etc., Women's. Rudley Sportswear, Inc. 367,711; May 23.
Robes, Men's. Van Baalen, Heilbrun & Co. 367,678; May 23.
Shirts and pajamas. May Department Stores Company. 367,703; May 23.
Shirts, pants, jackets, dresses. Turner Manufacturing Company. 367,710; May 23.
Slips, Ladies'. Davidson Bros. 367,685; May 23.
Suits. Levy Bros. & Adler Rochester, Incorporated. 367,686; May 23.
Suits and ovecoats. S. Gerson. 367,699; May 23.
Suits, Play. Brownstein-Louis Co. 367,690; May 23.
Trousers and overalls. G. F. Holdren. 367,697; May 23.

CLASS 42

Cotton piece goods. Clarence S. Brown & Company. 367,684; May 23.
Cotton piece goods. Lewiston Bleachery and Dye Works. 126,711; renewed Sept. 30, 1939.
Crepe piece goods. William Skinner & Sons. 367,696; May 23.
Fabrics in the piece. Harry L. Sheinman & Sons Inc. 367,691; May 23.
Piece goods. Herendeen-Avery, Inc. 367,629; May 23; Serial No. 414,659; published Mar. 14, 1939.
Piece goods, Knitted cloth. Dyersburg Cotton Products, Inc. 367,599; May 23; Serial No. 413,931; published Mar. 14, 1939.
Rayon textiles and window curtains or drapes made of such materials. Kent, Lehr & Fitch, Inc. 367,705; May 23.
Silk, rayon, wool, and cotton piece goods. Société Anonyme "Les Tissus Soray". 367,585; May 23; Serial No. 412,880; pubdished Mar. 14, 1939.
Towels. Boot Mills. 367,582; May 23; Serial No. 412,752; published Mar. 14, 1939.
Woolen and wool mixture fabrics. Linker & Herbert, Inc. 367,634; May 23; Serial No. 414,746; published Mar. 14, 1939.
Woolen piece goods. Alexander Woolen Company. 367,613; May 23; Serial No. 414,250; published Mar. 14, 1939.

CLASS 44

Hydro-colloid material, Elastic. Lee S. Smith & Son Manufactuing Company. 367,530; May 23; Serial No. 382,398; published Nov. 10, 1936.
Nursing-nipples, Elastic. Whitall Tatum Company. 126,973; renewed Oct. 14, 1939.

CLASS 45

Beverages. Moxie Company. 367,681; May 23.
Drink and bases and syrups and extracts for making same, Grapefruit. Squirt Company. 367,659; May 23; Serial No. 415,203; published Mar. 14, 1939.

CLASS 46

Baking powder. Temple Stephens Co. 367,544; May 23; Serial No. 404,332; published Mar. 14, 1939.
Candy. L. S. Kehias. 367,701; May 23.
Canned deviled ham, frankfurts, sausages, etc. William Underwood Company. 367,570; May 23; Serial No. 411,513; published Mar. 14, 1939.
Canned fruits and vegetables, tomato juice, etc. Honorco, Inc. 367,539; May 23; Serial No. 400,103; published Mar. 14, 1939.
Canned soups. Schuckl & Co. 367,636; May 23; Serial No. 414,803; published Mar. 14, 1939.
Cheese. Pure Milk Cheese Co. 367,532; May 23; Serial No. 389,695; published Mar. 14, 1939.
Cheese. Rheingold Cheese Company. 367,663; May 23; Serial No. 415,258; published Mar. 14, 1939.
Chocolates. Miller & Hollis, Inc. 367,657; May 23; Serial No. 415,177; published Mar. 14, 1939.
Chocolates. Miller & Hollis, Inc. 367,658; May 23; Serial No. 415,179; published Mar. 14, 1939.

Coffee, chocolate, and cocoa. Great Star Coffee Corporation. 367,590; May 23; Serial No. 413,527; published Mar. 14, 1939.

Feed concentrate for stock. J. I. Gates Milling Company. 367,556; May 23; Serial No. 408,602; published Mar. 14, 1939.

Flour. General Mills, Inc. 367,619; May 23; Serial No. 414,443; published Mar. 14, 1939.

Food, Dog. A. E. Stewart and M. H. Stewart. 367,588; May 23; Serial No. 413,343; published Feb. 21, 1939.

Fruits, Fresh citrus. Mariana Grove Packers, Inc. 367,557; May 23; Serial No. 409,048; published Mar. 14, 1939.

Molasses. Oelerich & Berry Co. 367,586; May 23; Serial No. 412,916; published Mar. 14, 1939.

Potatoes. R. Metz. 367,675; May 23.

Potatoes, Shoestring. A. Rosenthal. 367,596; May 23; Serial No. 413,739; published Mar. 14, 1939.

Sausage, ham, lard, etc. M. O. Barber. 367,571; May 23; Serial No. 411,565; published Mar. 14, 1939.

Shortening, Vegetable oil. Interstate Cotton Oil Refining Co. 367,645; May 23; Serial No. 415,000; published Mar. 14, 1939.

Tomato juice. A. Strasberg. 367,593; May 23; Serial No. 413,653; published Mar. 14, 1939.

CLASS 47

Wines. Bisceglia Brothers Corp. 367,594; May 23; Serial No. 413,700; published Mar. 14, 1939.

Wines. Fruit Industries, Ltd. 367,563; May 23; Serial No. 410,464; published Mar. 14, 1939.

CLASS 48

Ale. Pittston Brewing Corporation. 367,549; May 23; Serial No. 406,102; published Mar. 14, 1939.

CLASS 49

Liqueurs, Alcoholic. Distillerie de la Suze (Société Anonyme). 367,609; May 23; Serial No. 414,183; published Mar. 14, 1939.

Rum, Hercules Liquor Products Corp. 367,668; May 23; Serial No. 415,390; published Mar. 14, 1939.

Rum. Rifa, Bacardi y Compañia. 367,526; May 23; Serial No. 1,294 (Inter-American Series); published Mar. 7, 1939.

Whiskey. A. S. Bowman. 367,649; May 23; Serial No. 415,105; published Mar. 14, 1939.

Whiskeys, brandies, gins, etc. Baldwin Liquors Corporation. 367,713–15; May 23.

CLASS 50

Bottle-stoppers, bottle-caps, and jar-closures. Koscherak Siphon Bottle Works. 126,306; renewed Aug. 19, 1939.

LIST OF LABELS

"Baked-In" Flavor. For Bread. American Bakeries Company. 53,008; May 23.

"Baked-In" Freshness. For Sandwich Loaves. American Bakeries Company. 53,007; May 23.

Bradshaw's. For Honey. R. D. Bradshaw and Sons. 53,011; May 23.

Chief Lucky. For Note Book Filler Paper. P. E. Trouche. 53,021; May 23.

Fresh Menasha Sliced Bread. For Bread. Menasha Products Company. 53,016; May 23.

Gold Bar Butter. For Butter. Bitter Root Cooperative Creamery Co. 53,009; May 23.

Holsum. For Bread. Dietzen's Bakery. 53,012; May 23.

Klean Kleaner Window Cleaner. For a Window Cleaner. C. J. Freed. 53,013; May 23.

Lindy. For Canned Peas. Blue Earth Canning Company. 53,010; May 23.

Lovely Lady. For Wedding Rings. D. Silver. 53,020; May. 23.

Parrot Brand Chocolate Flavored Dairy Flavor. For Chocolate Flavored Drink Base. D. Ghirardelli Co. 53,014; May 23.

Penick. For a Syrup. Penick & Ford Ltd. Incorporated. 53,019; May 23.

Prepared Dic-A-Doo Waterless Type Cleaner. For a Waterless Type Cleaner. Patent Cereals Company. 53,018; May 23.

Princess Ice Cream. For Ice Cream. Menasha Products Company. 53,017; May 23.

Sliced Menasha Bread. For Bread. Menasha Products Company. 53,015; May 23.

LIST OF PRINTS

"Adagio." For Brassières of the Character Illustrated in Said Print. Maiden Form Brassiere Company. 17,397; May. 23.

"Adagio" Long Line. For Long Line Brassières. Maiden Form Brassiere Company. 17,396; May 23.

Mexihot Barbecue Sandwiches. For Barbecue Sandwiches. Dickerson Manufacturing Co. 17,395; May 23.

Timber Is a Crop. For Timber and Other Forest Products. Weyerhaeuser Sales Company. 17,399; May 23.

Why Vogue. For Automobile Tires. Vogue Rubber Company. 17,398; May 23.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barnes, Brown E., assignor to Electric Steel Foundry Company, Portland, Oreg. Repair link. Re. 21,093; May 23.

Bratring, Kurt, Berlin, Germany, assignor, by mesne assignments, to Neocell Products Corporation. Process and apparatus for the production of hollow bodies from cellulose products and other plastic masses. Re. 21,094; May 23.

Electric Steel Foundry Company. (See Barnes, Brown E., assignor.)

Humphreys, Robert E., assignor to Standard Oil Company, Whiting, Ind. Distilling oils. Re. 21,095; May 23.

Neocell Products Corporation. (See Bratring, Kurt, assignor.)

Standard Oil Company. (See Humphreys, Robert E., assignor.)

Stedman, Jacob C., Memphis, Tenn. Cashier machine. Re. 21,096; May 23.

Warner, Boyd W., assignor to The Warner Brooder & Appliance Corporation, North Manchester, Ind. Brooder. Re. 21,097; May 23.

Warner Brooder & Appliance Corporation, The. (See Warner, Boyd W., assignor.)

LIST OF DESIGN PATENTEES

Agnew, Howard J., Arkansas City, Kans. Desk ornament or the like. 114,888; May 23.

American Transformer Company. (See Garlick, Walter J., Jr., assignor.)

Amick, Clair J. (See Hayden, S., and Amick.)

Andres, Lloyd J., Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich. Phonograph cabinet. 114,913; May 23.

Andres, Lloyd J., Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich. Phonograph cabinet. 114,914; May 23.

Art Metal Construction Company. (See Jones, James R., assignor.)

Automatic Instrument Company. (See Andres, Lloyd J., assignor.)

Bardco Corporation of America. (See Jervis, Fred, assignor.)

Berman, Abraham T., New York, N. Y. Dress. 114,915; May 23.

Bixer, Edmond P., New York, N. Y. Textile fabric or similar article. 114,916; May 23.

Boulton, Berthoud C., Towson, and L. C. McCarty, Jr., assignors to The Glenn L. Martin Company, Baltimore, Md. Airplane. 114,972; May 23.

Cairns, William F., New Haven, Conn., assignor to United States Rubber Company, New York, N. Y. Shoe. 114,917; May 23.

Cairns, William F., New Haven, Conn., assignor to United States Rubber Company, New York, N. Y. Shoe. 114,918; May 23.

Campbell, Thomas R., Elmira, assignor to Corning Glass Works, New York, N. Y. Combined display carton and carrier. 114,889; May 23.

Century Metalcraft Corporation. (See Hayden, S., and Amick, assignors.)

Colclough China Ltd. (See Perry, John H., assignor.)

Coleman Lamp & Stove Company. (See Olds, Ambrose D., assignor.)

Corning Glass Works. (See Campbell, Thomas R., assignor.)

Dale, Frank L., assignor to Mechanical Man, Inc., New York, N. Y. Automaton advertising and merchandising device. 114,919; May 23.

Defren, Irving, Brooklyn, N. Y. Statuette or similar article. 114,890; May 23.

Dekama, Armand A. (See Eliot, Don, assignor.)

Dyke, Herbert G., New York, N. Y. Ashtray, or similar article. 114,920; May 23.

Eagle Knitting Mills, Inc. (See Wengen, Frank J., assignor.)

Eckman, Martin J., Jamestown, N. Y. Cushion or similar article. 114,973; May 23.

Eliot, Don, Los Angeles, Calif., assignor to A. A. Dekama. Combination bottle and display package. 114,921; May 23.

Engel, Alice, New York, N. Y. Dress. 114,922; May 23.

Engel, Alice, New York, N. Y. Dress. 114,923; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,924; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,925; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,926; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,927; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,928; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,929; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,930; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,931; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,932; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,933; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,934; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,935; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,936; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,937; May 23.

Erhard, Gustave F., Scranton, Pa. Table cover or similar article. 114,938; May 23.

Feintuck, Rose, New York, N. Y. Dress. 114,939; May 23.

Feintuck, Rose, New York, N. Y. Dress ensemble. 114,940; May 23.

Florman, Irving, New York, N. Y. Combined key case and flashlight. 114,941; May 23.

Fogel, Abraham, Montreal, Quebec, Canada. Transparent box. 114,891; May 23.

Fracchia, Pauline, New York, N. Y. Dress. 114,942; May 23.

Fracchia, Pauline, New York, N. Y. Dress. 114,943; May 23.

Fracchia, Pauline, New York, N. Y. Dress. 114,944; May 23.

Fracchia, Pauline, New York, N. Y. Dress ensemble. 114,945; May 23.

Fracchia, Pauline, New York, N. Y. Dress. 114,946; May 23.

Gardner, John M., Trenton, N. J. Chair. 114,892; May 23.

Garlick, Walter J., Jr., Glen Ridge, assignor to American Transformer Company, Newark, N. J. Electrical transformer. 114,947; May 23.

General Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)

Gleitsman, Harold, New York, N. Y. Hamper or similar article. 114,948; May 23.

Goddeyne, Leo D., Bay City, Mich. Spear. 114,893; May 23.

Goldman, Harry, New York, N. Y. Dress. 114,974; May 23.

Goldschmidt, Benjamin, New York, N. Y. Coat. 114,975; May 23.

Hassan, Ameen B., Paris, Tex. Dispensing machine cabinet. 114,894; May 23.

Hayden, Samuel and C. J. Amick, Los Angeles, Calif., assignors to Century Metalcraft Corporation, Chicago, Ill. Combined cooking and serving container or similar article. 114,949; May 23.

Haynie, Joseph F., Jr., El Dorado, Ark. Instrument cabinet. 114,950; May 23.

Heisey, A. H., & Company. (See Heisey, T. Clarence, assignor.)

Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass relish dish or article of similar nature. 114,895; May 23.

Herr, Frank E., Lancaster, Pa. Oil burner. 114,951; May 23.

Hobson, Ota O., Charlton, Iowa. Bedstead. 114,896; May 23.

Jervis, Fred, assignor to Bardco Corporation of America, Los Angeles, Calif. Power plant unit. 114,952; May 23.

Johnson, Herbert C., Wilmette, Ill. Electric heater. 114,953; May 23.

Jones, James R., Lakewood, assignor to Art Metal Construction Company, Jamestown, N. Y. Drawer pull or similar article. 114,897; May 23.
Jubilee Manufacturing Company. (See Nielsen, Peter, assignor.)
Klein, David, New York, N. Y. Dress. 114,898; May 23.
Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Tire. 114,954; May 23.
Kreutzer, Karl, assignor to Firma J. S. Staedtler, Nuremberg, Germany. Pencil. 114,955; May 23.
Laczko, Marie, New York, N. Y. Dog sweater. 114,976; May 23.
Land, Frank S., Kansas City, Mo. Badge. 114,956; May 23.
Lang, Alma, New York, N. Y. Textile fabric or similar article of manufacture. 114,977; May 23.
Lang, Alma, New York, N. Y. Textile fabric or similar article of manufacture. 114,978; May 23.
Lazare, Louis, New York, N. Y. Textile fabric. 114,982; May 23.
Lipic, Jos. Pen Co. (See Lipic, Joseph G., Jr., assignor.)
Lipic, Joseph G., Jr., assignor to Jos. Lipic Pen Co., St. Louis, Mo. Combined pencil and thermometer. 114,899; May 23.
Lobl, Otto, Middleboro, Mass. Dispenser for elastic bands or the like. 114,957; May 23.
Lyon Metal Products, Incorporated. (See O'Connor, John B., assignor.)
Martin, Glenn L., Company, The. (See Boulton, B. C., and McCarty, assignors.)
Mascitelli, Marie V., New York, N. Y. Dress and slip ensemble. 114,958; May 23.
May, Helen, New York, N. Y. Dress. 114,959; May 23.
McCarty, Lewis C., Jr. (See Boulton, B. C., and McCarty.)
Mechanical Man, Inc. (See Dale, Frank L., assignor.)
Moss, Lawrence, New York, N. Y. Handbag. 114,983; May 23.
Napolillo, Angelo, Chicago, Ill. Culinary mold. 114,900 May 23.
Nielsen, Peter, assignor to Jubilee Manufacturing Company, Omaha, Nebr. Sound-projector for automobile horns or the like. 114,960; May 23.
Niles, Floyd L., Oneida, N. Y. Cylinder-head puller. 114,901; May 23.
Norton, Roy M., assignor to Safway Steel Scaffolds Co. of Wisconsin, Wauwatosa, Wis. Scaffold end frame. 114,902; May 23.
O'Connor, John B., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Chair seat. 114,903; May 23.
Olds, Ambrose D., assignor to Coleman Lamp & Stove Company, Wichita, Kans. Heating stove. 114,961; May 23.
Oppenheimer, Adolph, New York, N. Y. Coat. 114,904; May 23.
Ortner, Joseph, Newark, N. J. Suitcase or the like. 114,962; May 23.
Payne, Theodore, 4th, West Allenhurst, N. J. Photographic birthstone bracelet. 114,963; May 23.
Pennino, Oreste, New York, N. Y. Pin or similar article. 114,905; May 23.
Perry, John H., Harrow, England, assignor to Colclough China Ltd. Ornamentation transfer sheet for chinaware or the like. 114,979; May 23.
Richardson, Marguerite R., and E. Staber, New York, N. Y. Dress ensemble. 114,964; May 23.
Rittenhouse, A. E., Co., The. (See Rittenhouse, Lloyd, assignor.)
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Signal device. 114,965; May 23.
Rolfe, Nathan, New York, N. Y. Dress. 114,966; May 23.
Rothchild, Aaron, New York, N. Y. Hat. 114,906; May 23.
Safway Steel Scaffolds Co. of Wisconsin, The. (See Norton, Roy M., assignor.)
Sam, Ole H., Stillwater, Minn. Alphabet or similar article. 114,967; May 23.
Sayre, Charles H., assignor to Trayer Products, Incorporated, Elmira, N. Y. Automotive spring shackle side link. 114,981; May 23.
Schlessinger, Ludwig S., New York, N. Y. Handbag. 114,968; May 23.
Sessions Clock Company, The. (See Simmons, Charles B., assignor.)
Seventh Worlds Poultry Congress and Exposition, The. (See Thoresen, George A., assignor.)
Shapiro, Murray J., New York, N. Y. Wedding gown. 114,907; May 23.
Simmons, Charles B., Bristol, assignor to The Sessions Clock Company, Forestville, Conn. Clock case or similar article. 114,969; May 23.
Skeliern, Victor, Fenton, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y. Plate or similar article. 114,908; May 23.
Skilsaw, Inc. (See Sullivan, Bolton, assignor.)
Staber, Eugenia. (See Richardson, M. R., and Staber.)
Staedtler, J. S. (See Kreutzer, Karl, assignor.)
Stein, Sara, New York, N. Y. Brasslère. 114,909; May 23.
Stone, Mollie, New York, N. Y. Dress. 114,910; May 23.
Sullivan, Bolton, Winnetka, assignor to Skilsaw, Inc., Chicago, Ill. Electric hand saw. 114,970; May 23.
Thoresen, George A., Providence, R. I., assignor to The Seventh Worlds Poultry Congress and Exposition, Cleveland, Ohio. Badge or similar article. 114,911; May 23.
Trayer Products, Incorporated. (See Sayre, Charles H., assignor.)
United States Rubber Company. (See Cairns, William F., assignor.)
Upton, Clifford D., Covington, Ohio. Crutch or similar article. 114,912; May 23.
Wedgwood, Josiah, & Sons, Inc., of America. (See Skellern, Victor, assignor.)
Wengen, Frank J., assignor to Eagle Knitting Mills, Inc., Milwaukee, Wis. Cap. 114,980; May 23.
Wicha, Sarah, New York, N. Y. Dress. 114,971; May 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abell, Arthur H., New York, N. Y. Starter for engines. 2,159,514; May 23.
Abraham, Leonard G., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmission system. 2,158,993; May 23.
Abrasive Products, Inc. (See Pitt, Ralph T., assignor.)
"Acieries de Haine Saint-Pierre et Lesquin", Société Anonyme. (See Bikar, Marie E. J. H., assignor.)
Acker, Ernst. (See Weingand, R., and Acker.)
Adam, Frank, Electric Company. (See Adam, F. B., and Green, assignors.)
Adam, Frederick B., St. Louis County, and F. S. Green, assignors to Frank Adam Electric Company, St. Louis, Mo. Arc quencher. 2,159,645; May 23.
Adams, Elmer W. (See McNulty, G. M., and Adams.)
Adams, Julius R. (See Davidson, P. B., and Adams.)
Adams, Kay E., et al. (See Delk, Edward M., assignor.)
Aero Supply Mfg Co. Inc. (See Downey, George T., assignor.)
Agfa Ansco Corporation. (See Wilmanns, G., Schneider, and Kethur, assignors.)
Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Johnson, Bror A. E., assignor.)
Aktiengesellschaft Cilander. (See Zwicky, K., and Brunner, assignors.)
Albright, Robert B. (See Bauer, B., and Albright.)
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Antenna. 2,159,646; May 23.
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Diversity transmission. 2,159,647; May 23.
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Transmission modifying network. 2,159,648; May 23.
Alford, Andrew, San Mateo County, Calif., assignor to Mackay Radio & Telegraph Company, New York, N. Y. Circuit arrangement for reducing transients. 2,159,649; May 23.
Alkan, Robert, Paris, France. Gyroscope. 2,159,118; May 23.
Alker, Hayward R., Kensington, Conn. Fire alarm. 2,159,650; May 23.
Allen, Earl M., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,159,515; May 23.
Allen, Edmund H., Orlando, Fla. Harvester bag. 2,158,999; May 23.
Allen, Inga C., Wilkinsburg, Pa. Wearing apparel. 2,159,119; May 23.
Allen, Joseph W., assignor to Eclipse Aviation Corporation, East Orange, N. J. Electrical apparatus. 2,159,120; May 23.
Aller, Willis F. (See Poock, L. F., and Aller.)
Alley, Stephen, London, England, assignor of one-half to American Machine & Foundry Company, New York, N. Y. Filter tip for cigarettes. 2,159,121; May 23.
Allgemeine Elektricitats Gesellschaft. (See Wohlfarth, Otto, assignor.)
Alling, E. Roy, Kenmore, N. Y. Emptying device and method. 2,159,000; May 23.
Allum, Arthur E., Jr., Garden Grove, assignor to Shell Development Company, San Francisco, Calif. Spray oil emulsifier. 2,159,611; May 23.
Alm, Karl M., Stockholm, Sweden. Automatic phonograph. 2,159,836; May 23.
Aluminum Company of America. (See Dix, E. H., Jr., and Nock, assignors.)
American Blower Corporation. (See Anderson, Edward L., assignor.)
American Car and Foundry Motors Company. (See Dayes, Frederick E., assignor.)
American Chain & Cable Company. (See Schmidt, George S., assignor.)
American Character Doll Co. (See Schaeffer, Edward G., assignor.)
American Electrical Heater Company. (See Thomas, L. H., and Kuhn, assignors.)
American Instrument Company. (See Morris, Nathan, assignor.)
American Machine & Foundry Company. (See Alley, Stephen, assignor.)
American Machine & Foundry Company. (See Horgan, George D., assignor.)
American Machine & Foundry Company. (See Johnson, Carl W., assignor.)
American Ozone Company. (See Daily, James M., assignor.)
American Radiator Company. (See Hersperger, Herman, assignor.)
American Radiator Company. (See Lambert Robert D., assignor.)
American Seating Company. (See Morgan, Erving B., assignor.)
American Smelting and Refining Company. (See Betterton, J. O., Phillips, and Smith, assignors.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
Anaconda Wire & Cable Company. (See Hasse, Joseph W., assignor.)
Anater, Raymond J., Dravosburg, Pa., assignor to National Tube Company. Rolling mill mandrel. 2,159,123; May 23.
Anderson-Bolling Mfg. Co. (See Anderson, Carl E., assignor.)
Anderson, Carl E., assignor to Anderson-Bolling Mfg. Co., Grand Haven, Mich. Locking door latch. 2,159,581; May 23.
Anderson, Carl O. (See Doennecker, H. W., Douglass, and Anderson.)
Anderson, Clifford E. (See Bearss, R., and Anderson.)
Anderson, Edward L., Grosse Isle, assignor to American Blower Corporation, Detroit, Mich. Gas mixing apparatus. 2,159,495; May 23.
Anderson, Frithiof B., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Galvanometer. 2,159,775; May 23.
Anderson, Harley E., assignor to J. H. Sharp, Chicago, Ill. Brake beam safety support. 2,159,582; May 23.
Anderson, W. Charles, Linden, Calif. Double action nut huller. 2,159,307; May 23.
Anderson, Thomas A., Hartwell, Ga., assignor to The Patent Button Company, Waterbury, Conn. Folding and pressing attachment for sewing machines. 2,159,416; May 23.
Anderson, William B., West Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,159,417; May 23.
Andrews, Kinloch D., New York, N. Y., assignor to Gogan Machine Corporation, Cleveland, Ohio. Switch mechanism. 2,159,243; May 23.
Animal Trap Company of America. (See Huebener, M. A., and Lehn, assignors.)
Anthony, Mark W., Houston, Tex. Thread cutting machine. 2,159,308; May 23.
Apotheker, Carl, and M. Hartmann, Riehen, and E. Merz, Binningen, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs. 2,159,542; May 23.
Appleton Machine Company, The. (See Buchanan, Edward L., assignor.)
Arbuckle, Samuel F., Highland Park, assignor to United Lens Corporation, Detroit, Mich. Signaling system. 2,159,496; May 23.
Armstrong, Howard E., Johnson City, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 2,159,001; May 23.
Armstrong, John, Bayonne, N. J. Golf ball holder. 2,159,122; May 23.
Arnold, Ross H., and W. G. Polhamus, Fort Wayne, Ind., and H. Somervell, Evanston, Ill., assignors to The Wayne Pump Company, Fort Wayne, Ind. Liquid dispensing apparatus. 2,159,625; May 23.
Art-O-Graphic Printing Company. (See Ormond, John J., assignor.)
Ashmore, Leon H., Collingswood, assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Manufacture of metal stock. 2,159,002; May 23.
Ashmore, Leon H., Collingswood, assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Manufacture of writing pens. 2,159,003; May 23.
Associated Electric Laboratories, Inc. (See Grandstaff, Otho D., assignor.)
Associated Electric Laboratories, Inc. (See Robinson, Harold C.)
Atkin, Lawrence. (See Schultz, A., Atkin, and Frey.)
Atkinson, Flavius W., D. Kleist, G. Slayter, J. H. Thomas, and G. M. Lannan, Newark, Ohio, assignors to Owens-Illinois Glass Company. Electric furnace. 2,159,361; May 23.
Aumack, Frank L., assignor to J. G. Rotchford, as trustee, Spokane, Wash. Door latch. 2,159,362; May 23.
Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa. Tamping means. 2,159,347; May 23.
Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Company, Inc., Cedar Rapids, Iowa. Earth moving device. 2,159,348; May 23.
Autographic Register Company. (See Brenn, Carl W., assignor.)

Automatic Control Corporation. (See Persons, Lawrence M., assignor.)
Autoyre Company, The. (See Berg, Edward C., assignor.)
Babb, Maynard A., North Bergen, N. J., and S. J. A. M. Bagno, New York, N. Y., assignors to Duro Test Corporation, North Bergen, N. J. Relay. 2,159,837; May 23.
Babcock, Earl, assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Electrical logging apparatus. 2,159,418; May 23.
Babcock & Wilcox Company, The. (See Hargrove, R. M., and Grieseimer, assignors.)
Babcock & Wilcox Company, The. (See Heller, Lewis W., assignor.)
Babitch, Abraham M., Flint, assignor to General Motors Corporation, Detroit, Mich. Metal plate filter. 2,159,496; May 23.
Babcock & Wilcox Company, The. (See Trainer, J. E., Ziegler, Yeo, and Jorde, assignors.)
Bach, Irving. (See Lipowsky, L. M., and Bach.)
Bagno, Samuel J. A. M. (See Babb, M. A., and Bagno.)
Bailey Meter Company. (See Ryder, John D., assignor.)
Bailey Meter Company. (See Welble, Carl J., assignor.)
Baker Perkins Company. (See Paterson, John C., assignor.)
Baker-Raulang Company, The. (See Hawkins, Paul E., assignor.)
Baker, Walter J., West Somerville, assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass. Vulcanizing machine. 2,159,543; May 23.
Ball, Albert P., assignor to Briggs Manufacturing Company, Detroit, Mich. Ventilator mechanism. 2,159,516; May 23.
Balz, Philipp, Bitterfeld, Germany, assignor, by mesne assignments, to Magnesium Development Corporation. Recovery of magnesium. 2,159,878; May 23.
Bamberger, Glenn R., assignor to Sears, Roebuck and Co., Chicago, Ill. Coupling member. 2,159,756; May 23.
Bang, Carl S., Montreal, Quebec, Canada. Portable kiln. 2,159,310; May 23.
Bank of America Trust and Savings Association, executor, et al. (See Strobel, Roy E., assignor.)
Barozzi, Guido E., Woodcliff, N. J. Clamp. 2,159,776; May 23.
Barraja-Frauenfelder, Joseph, Swarthmore, assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa. Diesel engine. 2,159,197; May 23.
Barrett, Arthur M., Winnetka, assignor to The Barrett Bindery Co., Chicago, Ill. Portable displayer. 2,159,612; May 23.
Barrett Bindery Co., The. (See Barrett, Arthur M., assignor.)
Barrie, Catherine, Cold Spring Harbor, N. Y. Plate basket for collective dishwashing. 2,159,365; May 23.
Bartlett, Clarence and L., Hartford, Ky. Rotary engine. 2,159,544; May 23.
Bartlett, Lawrence. (See Bartlett, Clarence and L.)
Bartosch, Wolfgang, assignor to the firm Carobronze Röhrenwerk Gesellschaft m. b. H., Vienna, Austria. Bearing. 2,159,545; May 23.
Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,159,366; May 23.
Bass, Shailer L., and H. N. Fenn, Midland, Mich., and F. C. Peterson, Syracuse, N. Y., assignors to The Dow Chemical Company, Midland, Mich. Stabilization of cellulose ethers. 2,159,367; May 23.
Bassett, Charles W. (See Dootson, Norman L., assignor.)
Bateman, Dorothy E. (See Charch, W. H., and Bateman.)
Bath, Fritz. (See Freystedt, E., and Bath.)
Battelle Memorial Institute. (See Pavlish, A. E., and Sullivan, assignors.)
Bauer, Brunton, Mount Airy, and R. B. Albright, assignors to Philco Radio and Television Corporation, Philadelphia, Pa. Antenna coupling device for radio receivers. 2,159,546; May 23.
Baule, Gerhard H. J. (See Cooper, J., and Baule.)
Bauroth, Walter J., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Drill. 2,159,071; May 23.
Beall, Lloyd M., Dearborn, and F. P. Connors, Detroit, Mich. Engine. 2,159,072; May 23.
Bearss, Roy, and C. E. Anderson, Shelby, Mich. Electrical signal operating device. 2,159,419; May 23.
Beauvais, Marcelle, Saint-Maurice, assignor to S. Papadakis, Saint-Maurice (Seine), France. Production of photographic pictures in natural colors in accordance with the three-color principle. 2,159,683; May 23.
Becket, Frederick M., New York, and R. Franks, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Chromium-nickel steel. 2,159,497; May 23.
Beckler, Oakley K., assignor of twenty-two and one-half percent to M. H. Rowe, Dallas, seventy-two and one-half percent to J. H. Reynolds, Cisco, and five percent to J. A. Schley, Dallas, Tex. Electrical circuit breaker. 2,159,368; May 23.
Medard, Joseph W., Hoosick Falls, N. Y. Stitching machine. 2,159,722; May 23.
Beeman, Clarence E., Corvallis, Oreg. Combined bench and blackboard. 2,159,517; May 23.
Beitzel, Horace C. (See Paulsen, T. R., and Beitzel.)
Bekk & Kaulen Chemische Fabrik G. m. b. H. (See Görig, Josef, assignor.)
Bell, Charles W., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Switch control and indication system. 2,159,518; May 23.
Bell Telephone Laboratories, Incorporated. (See Abraham, Leonard G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Anderson, Frithiof B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ferrell, Enoch B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mendenhall, Hallam E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Miller, Ralph L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Saul, George N., assignor.)
Bendix Aviation Corporation. (See Bevins, James E., assignor.)
Bendix Aviation Corporation. (See Chappell, R. R., Colt, and Streb, assignors.)
Bendix Aviation Corporation. (See Chappell, R. R., and Whitney, assignors.)
Bendix Aviation Corporation. (See Koch, Paul W., assignor.)
Bendix Radio Corporation. (See Hyland, Lawrence A., assignor.)
Benedek, Elek K., Bucyrus, Ohio. Hydraulic pump or motor. 2,159,244; May 23.
Benedek, Elek K., Bucyrus, Ohio. Variable displacement pump or motor. 2,159,245; May 23.
Bennett, Albert E., Jacksonville, Fla. Bearing for weighing scales. 2,159,684; May 23.
Bennett, Albert L., Glendale, assignor to Malinite Corporation, Los Angeles, Calif. Casting bodies. 2,159,349; May 23.
Bennett, Donald F., Washington, D. C. Range finder. 2,159,199; May 23.
Bennett Incorporated. (See Neitzke, Oscar F., assignor.)
Benzenberg, Rudolf, New York, N. Y. Window construction. 2,159,583; May 23.
Berg, Edward C., Chicago, Ill., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Display card and holder. 2,159,838; May 23.
Berger, Joseph D., Covina, Calif. Walnut tree shaker. 2,159,311; May 23.
Berliner, Julius, F. T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Softening plastic sheets. 2,159,926; May 23.
Betourne, Armand A., San Diego, Calif. Combined sunshade and tent. 2,159,309; May 23.
Betterton, Jesse O., Metuchen, A. J. Phillips, Plainfield, and A. A. Smith, Jr., Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Alloy. 2,159,124; May 23.
Bevins, James E., Bronx, N. Y., assignor tor Bendix Aviation Corporation, South Bend, Ind. Tachometer. 2,159,125; May 23.
Beyer, David, Cleveland, Ohio. Making twist bread. 2,159,246; May 23.
Bierwirth, Edwin A., and H. J. Kienle, assignors to Kelsey-Hayes Wheel Company, Detroit, Mich. Making a vehicle wheel. 2,159,880; May 23.
Bikar, Marie E. J. H., Brussels, assignor to "Aciéries de Haine, Saint-Pierre et Lesquin", Société Anonyme, Haine Saint-Pierre, Belgium. Fixing electric motors to a vehicle truck. 2,159,584; May 23.
Birkholz, Richard G., assignor, by mesne assignments, to Midwest Manufacturing Company, Milwaukee, Wis. Ventilating apparatus. 2,159,498; May 23.
Birkigt, Marc, Bois-Colombes, France. Automatic firearm. 2,159,126; May 23.
Birkigt, Marc, Bois-Colombes, France. Automatic firearm. 2,159,127; May 23.
Birman, Isidore, Peekskill, N. Y. Sash lock. 2,159,198; May 23.
Bjorkquist, Sigurd W., Whittier, Calif. Certificate holder. 2,159,547; May 23.
Blackburn, Daniel M., Carbondale, Pa., assignor to Hendrick Manufacturing Company. Variable stroke shaking screen. 2,159,777; May 23.
Blair, Charles M., Jr., assignor to The Tret-O-Lite Company, Webster Groves, Mo. Breaking oil-in-water type petroleum emulsions. 2,159,312; May 23.
Blair, Charles M., Jr., Webster Groves, Mo., and C. C. Rogers, Jr., San Antonio, Tex., assignors to The Tret-O-Lite Company, Webster Groves, Mo. Breaking oil-in-water type petroleum emulsions. 2,159,313; May 23.
Blakeslee, Henry J., Marlboro, assignor to The State Company, Hartford, Conn. Electrical coupling. 2,159,757; May 23.
Blaw-Knox Company. (See Wert, Edwin A., assignor.)
Bleibtreu, Herman, Darmstadt, Germany, assignor to Freyn Engineering Company, Chicago, Ill. Coal burning apparatus. 2,159,200; May 23.
Bliss, Harvey N, West Hartford, Conn., assignor to Veeder-Root Incorporated. Counter. 2,159,314; May 23.
Blondel, André, Paris, France. Apparatus for color cinematography. 2,159,420; May 23.
Blue, Roy E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Latch bolt. 2,159,315; May 23.
Bohmer, Clarence I., and R. F. Gatch, assignors to The Jaeger Machine Company, Columbus, Ohio. Water-distributing system for concrete mixers. 2,159,499; May 23.
Boom, William B., Lakewood, Ohio. Base for machine tools and the like. 2,159,247; May 23.
Booth, William N., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel cover. 2,159,881; May 23.

Borden, Moro M., assignor to Simplex Valve and Meter Company, Philadelphia, Pa. Integrator. 2,159,882; May 23.
Borg-Warner Corporation. (See Mills, Herbert E., assignor.)
Bosch, Henry, Jr., San Francisco, Calif. Retrieving mechanism. 2,159,004; May 23.
Boston Woven Hose & Rubber Company. (See Baker, Walter J., assignor.)
Boswin, George A., Chicago, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Reel. 2,159,469; May 23.
Bowen, William S., Westfield, N. J. Atomizer. 2,159,201; May 23.
Boycott, Harold D., Knapps Creek, N. Y. Tire chain applying device. 2,159,626; May 23.
Brabak, Jörgen, Copenhagen, Denmark. Apparatus for desiccating or drying liquids or moist substances. 2,159,248; May 23.
Brainerd, Roy E., administrator. (See Wetmore, Foster H.)
Brake Shoe and Foundry Company. (See Ratkowski, Thomas A., assignor.)
Brand, David G., et al. (See Fitzgerald, Cecil Y., assignor.)
Brantly, John E., Pasadena, Calif. Oil well tool. 2,159,249; May 23.
Brantly, John E., Pasadena, Calif. Oil well hoist. 2,159,250; May 23.
Brauer, Gerhard, deceased, Berlin-Halensee, (by R. Brauer and M. Brauer, née Naumann, heirs, Luneburg). and E. Ruska, assignors to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Secondary emitter tube. 2,159,519; May 23.
Brauer, Magdalene, née Naumann, et al. (See Brauer, G., and Ruska.)
Brauer, Richard, et al. (See Brauer, G., and Ruska.)
Bregman, Harry, assignor to the Steel Stamping Company, Lorain, Ohio. Toy telephone with television effect. 2,159,839; May 23.
Breer, Carl, Grosse Pointe Park, assignor to Chrysler Corporation, Highland Park, Mich. Motor vehicle power transmission. 2,159,316; May 23.
Bremicker, Walter, Wuppertal-Barmen, Germany. Molding machine and mold for the centrifugal casting of annular bodies. 2,159,073; May 23.
Brenn, Carl W., Montclair, assignor to Autographic Register Company, Hoboken, N. J. Manifolding. 2,159,500; May 23.
Brenn, Carl W., Montclair, assignor to Autographic Register Company, Hoboken, N. J. Manifolding machine. 2,159,501; May 23.
Bretschneider, Otto. (See Seliger, H., Bretschneider, Hubald, Krüger, and Trugilitzka.)
Briggs Manufacturing Company. (See Ball, Albert P., assignor.)
Briggs Manufacturing Company. (See Platz, Henry T., assignor.)
Briggs Manufacturing Company. (See Prance, Alvin W., assignor.)
Briggs Manufacturing Company. (See Zablocki, Eugene C., assignor.)
Briggs, Robert E., Rocky Ford, Colo. Varying the pH value of solutions. 2,159,074; May 23.
Brink, Winfield S., assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio. Making steel sections. 2,159,371; May 23.
Brinton, H., Co. (See Gorman, William D., assignor.)
Bristol Company, The. (See Swarr, Jay N., assignor.)
Brizzolara, Robert T., New Dorp, N. Y. Refrigeration method and apparatus. 2,159,251; May 23.
Brockett, Thomas K., Iola, Kans. Safety car bumper apparatus. 2,159,651; May 23.
Brophy, William J., Linden, N. J., assignor to International Cigar Machinery Company. Moistener for cigar shapers. 2,159,128; May 23.
Brosch, Fritz, Los Angeles, Calif. Speed-changing adapter for motion picture cameras. 2,159,372; May 23.
Brown Company. (See Richter, George A., assignor.)
Brown Company. (See Richter, G. A., and Vannah, assignors.)
Brown Company. (See Schur, Milton O., assignor.)
Brown Instrument Company, The. (See Moore, Coleman B., assignor.)
Brown, Leo H., New York, N. Y. Exposure meter. 2,159,202; May 23.
Brown & Sharpes Manufacturing Company. (See Maglott, George F., assignor.)
Bruining, Hajo. (See Veenemans, C. F., Lopp, and Bruining.)
Brunner, Anthony T., Half Moon Bay, Calif. Fertilizer and seed planter. 2,159,652; May 23.
Brunner, Friedrich. (See Zwicky, K., and Brunner.)
Brush, Walter H., Sea Cliff, N. Y., assignor to Thermo-Mix, Inc. Valve and mixing device. 2,159,129; May 23.
Brussell, Jacob, New York, N. Y., assignor to I. Friedman, Roselle, N. J. Multiple needle sewing machine. 2,159,252; May 23.
Bryson, Harry B., Los Angeles, deceased; N. M. Bryson, administratrix, assignor of one-half to C. Van Ika, Los Angeles, Calif. Automatic load lock. 2,159,421; May. 23.
Bryson, Nancy M., administratrix. (See Bryson, Harry B., assignor.
Buchanan, Carson P., Denton, Tex. Broom and mop hanger. 2,159,548; May 23.
Buchanan, Edward L., Menasha, assignor to The Appleton Machine Company, Appleton, Wis. Paper pulp consistency regulator. 2,159,317; May 23.
Buchi, Alfred, Winterthur, Switzerland. Gas turbine driven blower. 2,159,422; May 23.
Buckeye Iron & Brass Works. (See Rike, F. F., and Webb, assignors.)
Buckeye Traction Ditcher Company, The. (See George, Charles L., assignor.)
Bucy, Roy T. (See Dunn, W. T., Syrovy, and Bucy.)
Bucyrus-Erie Company. (See Paulsen, T. R., and Bietzel, assignors.)
Bullard, E. D. Company. (See Wisman, Lauren O., assignor.)
Bundenthal, George. (See Bundenthal, Jacob and G.)
Bundenthal, Jacob and G., and W. D. Kimpton, Dayton, Ohio. Mop holder. 2,159,350; May 23.
Bureau, Arthur A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reel construction. 2,158,994; May 23.
Burgett, Ezra W., Oakland, Calif. Ski brake. 2,159,130; May. 23.
Burkhard, C. E., et al. (See Winters, Jacob E., assignor.)
Burns, Robert P., Los Angeles, Calif. Hair curling. 2,159,131; May 23.
Burns, Wilford E., Burlingame, assignor to M. J. B. Company, San Francisco, Calif. Method of and means for waxing tin plate. 2,159,351; May 23.
Buschbeck, Werner, and H. Prost, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Neutralizing high-frequency push-pull amplifiers. 2,159,731; May 23.
Bush, Rankin J., Jeannette, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Inertia operated control device. 2,159,778; May 23.
Bush, William E., Long Beach, Calif. Trailer hitch. 2,159,253; May 23.
Bussmann, Henry T. St. Louis, Mo. Protector for electric circuits. 2,159,423; May 23.
Buzzell, Dow Al., Hastings, Nebr. Concrete riprap. 2,159,685; May 23.
Byrne, Paul F., West Caldwell, assignor to Federal Telegraph Company, Newark, N. J. Shielding arrangement for high frequency transmission systems. 2,159,627; May 23.
Caldwell, Ollie C., Lisbon, Ohio. Adjustable bed. 2,159,883; May 23.
California Fruit Growers Exchange. (See Holton, Homer H., assignor.)
California Fruit Growers Exchange. (See Wilson, Clarence W., assignor.)
Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,159,686; May. 23.
Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,159,687; May. 23.
Candor, Robert R. (See Miller, R. K., and Candor.)
Cannon, William D., Metuchen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Neutralization of inductive interference. 2,159,927; May. 23.
Carbide and Carbon Chemicals Corporation. (See Law, G. H., and McNamee, assignors.)
Carobronze Röhrenwerk Gesellschaft m. b. H. (See Bartosch, Wolfgang, assignor.)
Cardwell-Westinghouse Company. (See Sproul, Donald F., assignor.)
Carey, Phillip, Manufacturing Company, The. (See Greider, H. W., and Fasold, assignors.)
Carlin, Julius E., Freehold, N. J. Power wheel. 1,159,653; May 23.
Carter, Henry R. (See Garner, W. B., and Carter.)
Carter, Sidney T., New Kensington, Pa., assignor, by mesne assignments, to Schenley Distillers Corporation. Mechanism for labeling bottles and other containers. 2,159,318; May 23.
Cartwright, Horace A., Oregon, Ill. Distributor apparatus and governor therefor. 2,159,319; May 23.
Caterpillar Tractor Co. (See Starr, O. L., and Lewis, assignors.)
Catlin, De Forest B., Wollaston, Mass. Osteopathic apparatus for treatment of the back. 2,159,654; May 23.
Cavin, Harold D., Bellingham, Wash. Conveyer system for presses. 2,159,779; May 23.
Cecka, Thomas G., assignor to International Milling Company, Buffalo, N. Y. Sifter. 2,159,549; May 23.
Cedar Rapids Engineering Company. (See Dunn, Allen I., assignor.)
Cederstrom, Harold A., assignor to Rosco Manufacturing Company, Minneapolis, Minn. Operating mechanism for vehicle dumping bodies. 2,159,470; May 23.
Celanese Corporation of America. (See Moncrieff, R. W., and Hill, assignors.)
Celanese Corporation of America. (See Pool, William, assignor.)
Celanese Corporation of America. (See Whitehead, William, assignor.)
Centervall, Hugo A., Brooklyn, assignor to Manly Corporation, New York, N. Y. Rotary pump. 2,159,005; May. 23.

Chaffee, Raymond O., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap Fastener stud. 2,159,363; May 23.

Chalmers, John W., assignor to Molins Machine Company, Limited Deptford, London, England. Apparatus for feeding cigarettes and other articles of similar shape. 2,159,132; May 23.

Chapman, Everett, Coatesville, Pa. Engine frame construction. 2,159,006; May 23.

Chapman, Frank D., Berlin, Wis. Hydraulic conveyer. 2,159,352; May 23.

Chapman, Wilfred H., Stechford, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Supporting surface for mattresses, cushions, and the like. 2,159,520; May 23.

Chappell, Ralph R., Richmond, Va., and K. E. Whitney, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Hand aspirating psychrometer. 2,159,133; May 23.

Chappell, Ralph R., Richmond, Va., and R. B. Colt, and R. J. Streb, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Shaft speed indicator. 2,159,424; May 23.

Charch, William H., and D. E. Bateman, Buffalo, N. Y., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Composite article and producing same. 2,159,007; May 23.

Chayne, Charles A., Flint, assignor to General Motors Corporation, Detroit, Mich. Spring suspension. 2,159,203; May. 23.

Chicago Telephone Supply Company. (See Draving, A. M., and Ingham, assignors.)

Chieffo, Ralph, West Haven, and A. Rossomando, New Haven, Conn. Waist construction for trousers. 2,159,353; May 23.

Chirelstein, Nathan, Chicago, Ill. Electric plug. 2,159,938; May 23.

Chirelstein, Nathan, Chicago, Ill. Electric plug. 2,159,939; May 23.

Chittick, Kenneth A., Haddonfield, N. J., assignor to Radio Corporation of America. Automatic volume control. 2,159,780; May 23.

Christ, Herman C., Walkermine, Calif. License plate lock. 2,159,254; May 23.

Christensen, Norman V., Chicago, and H. J. Le Vesconte, Western Springs, assignors to Union Special Machine Company, Chicago, Ill. Lock stitch sewing machine. 2,159,204; May 23.

Christianson, Kenneth O., assignor to Creative Educational Society, Mankato, Minn. Duplicator 2,159,471; May 23.

Chrysler Corporation. (See Blue, Roy E., assignor.)

Chrysler Corporation. (See Breer, Carl, assignor.)

Chrysler Corporation. See Dunn, William T., assignor.)

Chrysler Corporation. (See Dunn, W. T., Syrovy, and Bucy, assignors.)

Chrysler Corporation. (See Hendrick, John V., assignor.)

Chrysler Corporation. (See Lee, Roger K., assignor.)

Chrysler Corporation. (See Maurer, E. R., and Coyne, assignors.)

Chrysler Corporation. (See Neracher, C. A., and Iavelli, assignors.)

Chrysler Corporation. (See Slack, Frederic W., assignor.)

Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)

Clark, Richard U., Fort Wayne, Ind. Vapor electric tube. 2,159,255; May 23.

Clark, Robert R., Miami, Fla. Wall. 2,159,134; May 23.

Clarke, Douglas R., Toronto, Ontario, Canada. Portable internal combustion engine. 2,159,256; May 23.

Clemens, John F., Refugio, Tex. Cement mixer. 2,159,205; May 23.

Cleveland, Henry B., New York, N. Y. Centrifugal method and apparatus therefor. 2,159,732; May 23.

Cleveland Pneumatic Tool Company, The. (See De Mooy, John, assignor.)

Coleman, Gerald H., and B. C. Hadler, assignors to The Dow Chemical Company, Midland, Mich. Saturated polycarboxylic acid esters of 2-chloroallyl alcohol. 2,159,008; May 23.

Coleman, Gerald H., and G. V. Moore, assignors to The Dow Chemical Company, Midland, Mich. Ethers of 1,3-dihydroxy-isobutane and 1-chloro-3-hydroxy-isobutane. 2,159,364; May 23.

Colman, Ben, Detroit, Mich., assignor to The Worth Company. Car loading device. 2,159,320; May 23.

Colt, Rutger B. (See Chappell, R. R., Colt, and Streb.)

Columbian Art Works. (See Hope, Samuel N., assignor.)

Conklin, James W., Audubon, and R. Serrell, Haddonfield, N. J., assignors to Radio Corporation of America. High frequency tank circuits. 2,159,782; May 23.

Connors, Frederick P. (See Beall, L. M., and Connors.)

Continental-Diamond Fibre Company. (See Hicks, James E., assignor.)

Cook, Charles E., South Porcupine, assignor to International Detachable Bits & Equipment Limited, Timmins, Ontario, Canada. Detachable drill bit shank slotting device. 2,159,840; May 23.

Cook, Charles E., South Porcupine, assignor to International Detachable Bits & Equipment Limited, Timmins, Ontario, Canada. Reconditioning detachable drill bits. 2,159,841; May 23.

Cook, Charles E., South Porcupine, assignor to International Detachable Bits & Equipment, Limited, Timmins, Ontario, Canada. Fabricating detachable drill bits. 2,159,842; May 23.

Cook Laboratories, Inc. (See Lozier, M., and Frost, assignors.)

Cooper, James, Solvay, and G. H. J. Baule, assignors to Hall & McChesney, Inc., Syracuse, N. Y. Loose lead binder. 2,159,009; May 23.

Cooper, Lonzo S., Piqua, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,159,928; May 23.

Copeland, John E. (See Le Jeune, F. H., and Copeland.)

Coppus, Frans H. C., Princeton, assignor to L. M. Erskine, Worcester, V. W. and F. H. C. Coppus, Princeton, Mass., trustees. System of drafting locomotives. 2,159,472; May 23.

Coppus, Vera W., et al. (See Coppus, Frans H. C., assignor.)

Cornell Securities Corporation. (See Lockhart, William, assignor.)

Corrough, Hugh M., Tulsa, Okla., assignor to Power Patents Company, Hillside, N. J. Cracking mineral oils. 2,159,502; May 23.

Coutinho, Henri. (See Jalma, M. M., and Coutinho.)

Coward, Ashby B., Indianapolis, assignor of forty-nine per cent to A. Neu, Evansville, Ind. Stop motion device for bread wrapping machines. 2,159,135; May 23.

Coxon, George E. (See Le Fevre, A. W., Farr, Coxon, and Whitted.)

Coxon, George E. (See Le Fevre, A. W., Paul, and Coxon.)

Coyne, John H. (See Maurer, E. R., and Coyne.)

Crabbs, Herbert J., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical switch. 2,159,884; May 23.

Craig, John F., Upper Montclair, N. J., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor control switch. 2,159,781; May 23.

Cranford Company. (See Skrzynaki, Stanley M., assignor.)

Creative Educational Society. (See Christianson, Kenneth O., assignor.)

Cross, James R., assignor of one-half to T. F. Hobson, St. Petersburg, Fla. Insecticidal repellant. 2,159,550; May 23.

Cullin, Jasper F., Detroit, Mich., assignor to I. Mervis, Chicago, Ill. Battery charging apparatus. 2,159,885; May 23.

Cullin, Jasper F., Detroit, Mich., assignor of two-thirds to L. Mervis, Chicago, Ill. Wind propeller generator. 2,159,886; May 23.

Currie, Albert E., Ottawa, Ontario, Canada. Fertilizing device. 2,159,321; May 23.

Currier, Neil B. (See McClinton, L. H., and Currier.)

Cutler-Hammer, Inc. (See Stansbury, Carroll, assignor.)

Daily, James M., assignor to American Ozone Company, Chicago, Ill. Electric ozone generator. 2,159,206; May 23.

Daimlerbenz Aktiengesellschaft. (See Schilling, Otto, assignor.)

Danielson, Ernest G., assignor to Remler Company Ltd., San Francisco, Calif. Telephone transmitter. 2,159,628; May 23.

Danuser, Caflisch, Zurich, and F. Danuser, Kreuzlingen, Switzerland. Apparatus for controlling the temperature of fluids. 2,159,257; May 23.

Danuser, Felix. (See Danuser, Caflisch and F.)

Darnell, Rex C., Detroit, assignor, by mesne assignments, to King-Seeley Corporation, Ann Arbor, Mich. Air cleaner. 2,159,551; May 23.

Darragh, Elizabeth H. (See Darragh, John K., assignor.)

Darragh, John K., assignor to E. H. Darragh, Astoria, N. Y. Display box. 2,159,887; May 23.

Davidson, Paul B., Wilkinsburg, Pa., and J. R. Adams, assignors to Old Colony Envelope Company, Westfield, Mass. Adhesive. 2,159,613; May 23.

Davies, Harrison H., The Plains, Ohio. Curtain support. 2,159,425; May 23.

Davies, Richard L., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Making sodium aluminate. 2,159,843; May 23.

Davis, John L., Mobile, Ala. Adjustable lawn mower sharpener. 2,159,552; May 23.

Davis, William L., et al. (See Fitzgerald, Cecil Y., assignor.)

Dawson, William E., et al. (See Klermund, Henry G., assignor.)

Dayes, Frederick E., Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y. Vehicle roof construction. 2,159,783; May 23.

Dean, William T., Gary, Ind. Removable top for soaking pits. 2,159,844; May 23.

Dearborn, Frederick E., Washington, D. C., dedicated to the free use of the People of the United States of America. Compounds of copper, arsenic, and a sulphmonocarboxylic acid and making them. 2,159,585; May 23.

De Boer, Jan Hendrik, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken. Electron discharge device. 2,159,946; May 23.

Deere, John, Tractor Company. (See McCormick, Elmer, assignor.)

De Hart, Edward S. (See Errig, W. F., and De Hart.)

De La Roza, Joaquin J., Sr., Plandome, N. Y. Method and apparatus for digesting fibrous or cellular material. 2,159,258; May 23.

Delk, Edward M., assignor of eight-tenths to K. E. Adams, and one-tenth to J. E. Parsons, Shelbyville, Tenn. Joint for sheet metal roofing. 2,159,136; May 23.

Demmin, George E., Peoria, Ill. Apparatus for use in forming Pittsburgh joints. 2,159,784; May 23.

De Mooy, John, Shaker Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Plate fastening device. 2,159,655; May 23.

Deming, W. A. (See Miller, R. S., and Hansen, assignors.)

Den Ho, Sam, et al. (See Quintal, Manuel, assignor.)

Denison, Frederick S., W. E. Harrison, and E. M. Miller, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Switching mechanism. 2,159,503; May 23.

De Spain, Thomas H., assignor to Southern Textile Machinery Company, Paducah, Ky. Sewing mechanism. 2,159,688; May 23.

Det norske Aktieselskab for Electrokemish $ndustri. (See Sem, Mathias O., assignor.)

Deutsche Hydrierwerke Aktiengesellschaft. (See Hennig, Karl, assignor.)

Dewandre, Albert, Brussels, assignor to Servo-Frein Dewandre Société Anonyme, Liege, Belgium. Pneumatic control apparatus. 2,159,879; May 23.

Dewhurst, Maurice R., Earlswood, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Production of machine-set type composition. 2,159,473; May 23.

Dexter Folder Company. (See Gümbel, Heinrich, assignor.)

Diamond, David, Brooklyn, N. Y. Matrix transfer. 2,159,075; May 23.

Dickeson, Orrin E., Cedar Rapids, Iowa. Measuring cup. 2,159,431; May 23.

Diedrich, Günther, Berlin-Reinickendorf, Germany, assignor to General Electric Company. Power plant. 2,159,758; May 23.

Dix, Edgar H., Jr., Oakmont, and J. A. Nock, Jr., Tarentum, assignors to Aluminum Company of America, Pittsburgh, Pa. Thermal treatment of aluminum base alloys. 2,159,010; May 23.

Dodgeville Finishing Company. (See Hirsch, Fred B., assignor.)

Doennecke, Henry W., and E. W. Douglass, Tulsa, Okla., and C. O. Anderson, Baxter Springs, Kans., assignors to Ozark Chemical Company, Tulsa, Okla. Apparatus for recovering anhydrous sodium sulphate and the like. 2,159,759; May 23.

Donnar Products Corporation. (See Gash, Annie J., assignor.)

Dootson, Norman L., San Francisco, assignor of one-half to C. W. Bassett, Antioch, Calif. Sugar dispenser. 2,159,259; May 23.

Doty, John T., Bellflower, assignor of one-half to F. W. Weber, Southgate, Calif. Hydraulic clutch. 2,159,137; May 23.

Douglass, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical control and connection means. 2,159,076; May 23.

Douglass, Emory W. (See Doennecker, H. W., Douglass, and Anderson.)

Dow Chemical Company, The. (See Bass, S. L., Fenn, and Peterson, assignors.)

Dow Chemical Company, The. (See Coleman, G. H., and Hadler, assignors.)

Dow Chemical Company, The. (See Coleman, G. H., and Moore, assignors.)

Dow Chemical Company, The. (See Dreisbach, Robert R., assignor.)

Dow Chemical Company, The. (See Freeman, R. D., and Roberts, assignors.)

Dow Chemical Company, The. (See Kauppi, Toivo A., assignor.)

Dow Chemical Company, The. (See Lamb, Newton, assignor.)

Dow Chemical Company. (See Peterson, F. C., and Fenn, assignors.)

Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fuel control system. 2,159,785; May 23.

Downey, George T., assignor to Aero Supply Mfg. Co. Inc., Corry, Pa. Fuel cock assembly. 2,159,845; May 23.

Draving, Arthur M., and W. I. Ingham, Philadelphia, Pa., assignors, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Electric switch and the like. 2,159,369; May 23.

Dreisbach, Robert R., assignor to The Dow Chemical Company, Midland, Mich. Manufacture of nuclear alkylated anilines. 2,159,370; May 23.

Dreyfus, Henry, London, England. Production of yarns, fabrics, etc., having a basis of organic derivatives of cellulose. 2,159,011; May 23.

Dreyfus, Henry, London, England. Acetylating cellulose acetate textile materials. 2,159,012; May 23.

Dreyfus, Henry, London, England. Textile and other materials and their production. 2,159,013; May 23.

Dreyfus, Henry, London, England. Manufacture of artificial materials. 2,159,014; May 23.

Dreyfus, Henry, London, England. Manufacture of artificial materials. 2,159,015; May 23.

Dreyfus, Henry, London, England. Manufacture of artificial materials. 2,159,016; May 23.

Drucks, Carl, Jackson Heights, Long Island, N. Y. Sash securing device for opened windows. 2,159,474; May 23.

Drummond, Arthur, Rye, N. Y. Key check and rack. 2,159,322; May 23.

Duftschmid, Franz, Heidelberg, and E. Linckh and F. Winkler, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of valuable hydrocarbons and their derivatives containing oxygen. 2,159,077; May 23.

Dummer, Edward J., and A. Gay, assignors to Multipost Company, Rochester, N. Y. Envelope opening machine. 2,159,260; May 23.

Duncan, Herbert L., Highland Park, assignor of one-half to L. P. Threlkeld, Detroit, Mich. Control mechanism for internal combustion engines. 2,159,017; May 23.

Dunlop Tire and Rubber Corporation. (See Chapman, Wilfred H., assignor.)

Dunn, Allen I., assignor to Cedar Rapids Engineering Company, Cedar Rapids, Iowa. Torque wrench. 2,159,354; May 23.

Dunn, Allen I., assignor to Cedar Rapids Engineering Company, Cedar Rapids, Iowa. Torque wrench. 2,159,373; May 23.

Dunn, William T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,159,426; May 23.

Dunn, William T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,159,427; May 23.

Dunn, William T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Driving mechanism. 2,159,428; May 23.

Dunn, William T., A. J. Syrovy, and R. T. Bucy, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,159,429; May 23.

Dunn, William T., assignor to Chrysler Corporation, Detroit, Mich. Driving mechanism. 2,159,430; May 23.

Du Pont, E. I., de Nemours & Company. (See Berliner, Julius F. T., assignor.)

Du Pont, E. I., de Nemours & Company. (See Charch, W. H., and Bateman, assignors.)

Du Pont, E. I., de Nemours & Company. (See Hershberger, Albert, assignor.)

Du Pont, E. I., de Nemours & Company. (See Latham, G. H., and Hunt, assignors.)

Du Pont, E. I., de Nemours & Company. (See Lawson, W. E., and Spaeth, assignors.)

Du Pont, E. I., de Nemours & Company. (See Sloan, C. K., and Patterson, assignors.)

Du Pont, E. I., de Nemours & Company. (See Staudt, Ambrose W., assignor.)

Durand & Huguenin Aktiengesellschaft. (See Zeh, Ludwig, and Heuck, assignors.)

Durham, Rollie P., Flint, assignor to General Motors Corporation, Detroit, Mich. Removing a phosphate coating from a surface. 2,159,261; May 23.

Duro Test Corporation. (See Babb, M. A., and Bagno, assignors.)

Duryea, Otho C., Waterbury, Conn. Car truck. 2,159,138; May 23.

Dye, Carl D., Detroit, Mich. Smoking device. 2,159,018; May 23.

Eagle Knitting Mills, Inc. (See Wengen, Frank J., assignor.)

Eastman Kodak Company. (See Fordyce, C. R., and Salo, assignors.)

Eastman Kodak Company. (See Mannes, L. D., and Godowsky, assignors.)

Eastman Kodak Company. (See Mees, Charles E. K., assignor.)

Eaton, George, Cleveland, Ohio. Electric plug. 2,159,139; May 23.

Eberhard Manufacturing Company. (See Hennicke, Carl R., assignor.)

Eckell, Johannes, and G. Ritter, Berlin, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Hydrocarbons from carbon monoxide and hydrogen. 2,159,140; May 23.

Eclipse Aviation Corporation. (See Allen, Joseph W., assignor.)

Eclipse Aviation Corporation. (See Heintz, Ralph M., assignor.)

Eclipse Aviation Corporation. (See Tyler, Kingdon S., assignor.)

Eco Motors Works, Inc. (See Osborne, Elmer L. (Granddaddy), assignor.)

Edison, John S., assignor to Wm. P. Neil Company, Ltd., Los Angeles, Calif. Roofing-truss structure. 2,159,589; May 23.

Elmco Corporation, The. (See Royle, Edwin B., assignor.)

Electrolux Corporation. (See Karlström, Johan F. R., assignor.)

Electro Metallurgical Company. (See Becket, F. M., and Franks, assignors.)

Electro Metallurgical Company. (See Franks, Russell, assignor.)

Elliott, Richard C., London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Typographic composing machine. 2,159,475; May 23.

Ellis, Emmett S., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Flash trimming apparatus. 2,159,888; May 23.

Emery, Raymond W. (See Schaefer, F. R., and Emery.)

Endter, Waldemar A., Long Beach, Calif. Door lock. 2,159,940; May 23.

Enns, Waldo E., Los Angeles, Calif. Retractable brush. 2,159,432; May 23.

Erbguth, Paul F. K., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Disk chart hub. 2,159,504; May 23.

Erdos, John, assignor to Inland Bed Company, Chicago, Ill. Removable bed side. 2,159,323; May 23.

Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Press Corporation, Inc., Wilmington, Del. Hydraulic pump or motor. 2,159,553; May 23.

Errig, William F., Philadelphia, Pa., and E. S. De Hart, Collingswood, N. J., assignors to Peco Manufacturing Corporation, Philadelphia, Pa. Support. 2,159,786; May 23.

Erskine, Linwood M., et al. (See Coppus, Frans H. C., assignor.)

Ervin, John F., Ann Arbor, Mich. Disintegrating metal into shotting. 2,159,433; May 23.

Essex, Jesse L. (See Jones, O. L., and Essex.)

Estep, Arthur C., assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio. Hot top. 2,159,374; May 23.

Esterbrook Steel Pen Manufacturing Co., The. (See Ashmore, Leon H., assignor.)

Evans, Howell G., Two Rivers, Wis., and B. J. Kleerup, Chicago, Ill., assignors to Hamilton Manufacturing Company, Two Rivers, Wis. Image projection cabinet. 2,159,614; May 23.

Evans, James M., Detroit, Mich., assignor to Evans Products Company. Railway signaling system. 2,159,324; May 23.

Evans, Powell, Haverford, Pa. Mounting for fire extinguishers. 2,159,889; May 23.

Evans Products Company. (See Evans, James M., assignor.)

Faber, Herbert A., Cincinnati, Ohio. Brick wall construction. 2,159,019; May 23.

Fabrice, Edward H., assignor to Guardian Safety Seal Company, Chicago, Ill. Rendering sheet metal and sheet metal articles readily severable. 2,159,325; May 23.

Fairbanks, Morse & Co. (See Janda, Rudolph W., assignor.)

Falkenberg, William P., assignor to Rayolite Rifle Range Company, Chicago, Ill. Electric rifle range. 2,159,141; May 23.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,159,787; May 23.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,159,788.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding Pa. Automatic train brake control. 2,159,789; May 23.

Farnsworth, Philo T., San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Absorption oscillator. 2,159,521; May 23.

Farnsworth Television & Radio Corporation. (See Farnsworth, Philo T., assignor.)

Farr, Willard H. (See Le Fevre, A. W., Farr, Coxon, and Whitted.)

Farrell, William E., Bethlehem, Pa. Weigh bucket. 2,159,689; May 23.

Fasold, George A. (See Greider, H. W., and Fasold.)

Fay, Horace B. (See Quinn, Nelson J., assignor.)

Federal Telegraph Company. (See Byrne, Paul F., assignor.)

Feiss, Mary H., Brookline, Mass. Support for pamphlets. 2,159,262; May 23.

Fenn, Howard N. (See Bass, S. L., Fenn, and Peterson.)

Fenn, Howard N. (See Peterson, F. C., and Fenn.)

Fenske, Merrell R. (See McCluer, W. B., and Fenske.)

Ferguson, La Verne F., Pecatonica, Ill. Battery case for automobiles. 2,159,890; May 23.

Fernseh A.-G. (See Schiff, Ludwig, assignor.)

Fernseh Aktiengesellschaft. (See Brauer, G., and Ruska.)

Fernseh Aktien-Gesellschaft. (See Langenwalter, H-W., and Ruska, assignors.)

Fernseh Aktiengesellschaft. (See Ruska, Ernst, assignor.)

Ferrell, Enoch B., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulating system. 2,159,020; May 23.

Fewings, David J. (See Plaistowe, D. L., and Fewings.)

Fibre Can Machinery Corporation. (See Hatch, Alexander G., assignor.)

Fink, Lawrence R., assignor to Fink-Roselieve Co. Inc., New York, N. Y. Film processing tank. 2,159,476; May 23.

Fink-Roselieve Co. (See Fink, Lawrence R., assignor.)

Firestone Tire & Rubber Company, The. (See Brink, Winfield S., assignor.)

Fischer, Franz, Berlin-Wilmersdorf, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschrankter Haftung, Berlin, Germany. Automatic rudder control for aircraft. 2,159,142; May 23.

Fisk Rubber Corporation, The. (See Haynes, Chester W., assignor.)

Fitzgerald, Cecil Y., assignor of one-third to D. G. Brand, Monrovia, and one-third to W. L. Davis, Pasadena, Calif. Tree holder. 2,159,760; May 23.

Fix, Earl L. (See Haux, E. H., and Fix.)

Fleming, Walter R., Tulsa, Okla. Making irrigating tile. 2,159,690; May 23.

Fletcher, Junious, Portsmouth, Va. Gasket. 2,159,144; May 23.

Fluvario Limited. (See Guinness, Edward E., assignor.)

Focht, Frank S., Bell, Calif. Lubricator. 2,159,656; May 23.

Foley, Charles F. (See Worden, N. P., and Foley.)

Food Machinery Corporation. (See Lisle, Howard C., assignor.)

Food Machinery Corporation. (See Paxton, Hale and G. C., assignors.)

Fordyce, Charles R., and M. Salo, assignors to Eastman Kodak Company, Rochester, N. Y. Stabilization of polyvinyl acetal resins. 2,159,263; May 23.

Föttinger, Hermann, Berlin-Wilmersdorf, Germany. Hydraulic transmission gear. 2,159,143; May 23.

Fox, Robert R., Los Angeles, Calif. Siphonage preventer for plumbing systems. 2,159,691; May 23.

Fox, Robert R., Los Angeles, Calif. Siphonage preventer for plumbing systems. 2,159,692; May 23.

France Foundry & Machine Co., The. (See Shaw, Ernest W., assignor.)

Frankel, Morris. (See Rudnick, Nathan, assignor.)

Franks, Russell. (See Becket, F. M., and Franks.)

Franks, Russell, Niagara Falls, N. Y., assignor to Union Carbide and Carbon Corporation. Apparatus subjected to heat and cold alternately. 2,159,723; May 23.

Franks, Russell, Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Stainless steel. 2,159,724; May 23.

Franks, Russell, Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Corrosion resistant steel. 2,159,725; May 23.

Frederickson, William H., Seattle, Wash. Ice cream sundae. 2,159,761; May 23.

Freeman, Richard D., and M. J. Roberts, assignors to The Dow Chemical Company, Midland, Mich. Making low viscosity cellulose ethers. 2,159,375; May 23.

Freeman, Richard D., and M. J. Roberts, assignors to The Dow Chemical Company, Midland, Mich. Making of low viscosity cellulose ethers. 2,159,376; May 23.

Freeman, Richard D., and M. J. Roberts, assignors to The Dow Chemical Company, Midland, Mich. Making low viscosity cellulose ethers. 2,159,377; May 23.

French, George F., Manchester, England. Curtain heading tape. 2,159,733; May 23.

French, George F., Manchester, England. Curtain heading tape and the like. 2,159,734; May 23.

Frey, Charles N. (See Schultz, A., Aktin, and Frey.)

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Concentrating hydrocarbons. 2,159,434; May 23.

Freyn Engineering Company. (See Bleibtreu, Herman, assignor.)

Freystedt, Erich, Berlin-Siemensstadt, and F. Bath, Berlin-Haselhorst, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany. Frequency analyzer. 2,159,790; May 23.

Friedman, Bernet, South Norwalk, Conn. Automobile radiator inlet valve. 2,159,477; May 23.

Friedman, Isadore. (See Brussell, Jacob, assignor.)

Fries Bros. (See Morey, James J.)

Fries, Harold H. (See Morey, James H., assignor.)

Frost, Clayton H. (See Lozier, M., and Frost.)

Fruth, Hal F., Riverside, Ill., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spark plug. 2,159,791; May 23.

Fulton, Nell L., New York, N. Y. Coin holder. 2,159,555; May 23.

Fusca, Emil A., Perrysville, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Magnetic drive for lehr rolls. 2,159,657; May 23.

Fyke, Homer R., Los Angeles, assignor to T. O. Haynes, Laguna Beach, Calif. Door operating apparatus. 2,159,522; May 23.

Gabrielson, Christian. (See Rowe, W. H., and Gabrielson.)

Gall, Bernardus O. M. (See Jonker, J. L. H., and Gall.)

Gambardella, Ralph, Riverview, R. I. Gear shifting means. 2,159,846; May 23.

Gamewell Company, The. (See Weld, Foster E., assignor.)

Gansel, Imre, Budapest, Hungary. Fixer for permanent Catheters. 2,159,947; May 23.

Gardner Machine Company. (See Hall, Donald R., assignor.)

Garner, Willis B., and H. R. Carter, Turkey, Tex. Liquid fuel burner. 2,159,847; May 23.

Gash, Annie J., Pisgah Forest, N. C., assignor to Donnar Products Corporation, Medford, Mass. Bias woven fabric. 2,159,264; May 23.

Gash, Annie J., Pisgah Forest, N. C., assignor to Donnar Products Corporation, Medford, Mass. Weaving and weaving device. 2,159,265; May 23.

Gaskill, Alfred T. (See Geiger, W. J., and Gaskill.)

Gast, Ernst, assignor to Ickes-Braun Mill Company, Chicago, Ill. Greenhouse. 2,159,735; May 23.

Gatch, Robert F. (See Bohmer, C. I., and Gatch.)

Gay, Azel. (See Dummer, E. J., and Gay.)

Gaylord, William S., Jr., Summit, N. J. Transfer. 2,159,693; May 23.

Geier, Hermann. (See Jochum, K., Geier, and Pauser.)

Geiger, Max, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Relaxation oscillation generator. 2,159,792; May 23.

Geiger, Walter J., and A. T. Gaskill, Cleveland Heights, Ohio, assignors to General Electric Company. Electric lamp and making the same. 2,159,736; May 23.

General Aniline Works, Inc. (See Jochum, K., Geier, and Pauser, assignors.)

General Aniline Works, Inc. (See Kränzlein, G., Schlichenmaier, and Meissner, assignors.)

General Aniline Works, Inc. (See Schumacher, W., and Heimke, assignors.)

General Electric Company. (See Diedrich, Günther, assignor.)

General Electric Company. (See Geiger, W. J., and Gaskin, assignors.)

General Electric Company. (See Hagen, W., Thouret, and Kern, assignors.)

General Electric Company. (See Hill, Charles H., assignor.)

General Electric Company. (See Hobson, Leland S., assignor.)

General Electric Company. (See Keller, Karl H., assignor.)

General Electric Company. (See Kirch, Ernst, assignor.)

General Electric Company. (See Lenz, K., and Woeckel, assignors.)

General Electric Company. (See Macmillan, Campbell, assignor.)

General Electric Company. (See Malloy, John J., assignor.)

General Electric Company. (See Rowe, Hobart E., assignor.)

General Electric Company. (See Thacker, William J., assignor.)

General Electric Company. (See Tritle, John F., assignor.)

General Electric Company. (See Westendorp, Willem F., assignor.)

General Household Utilities Company. (See Kenney, Mahlon W., assignor.)

General Motors Corporation. (See Babitch, Abraham M., assignor.)

General Motors Corporation. (See Chayne, Charles A., assignor.)

General Motors Corporation. (See Cooper, Lonzo S., assignor.)

General Motors Corporation. (See Durham, Rollie P., assignor.)

General Motors Corporation. (See Hazen, Ronald M., assignor.)

General Motors Corporation. (See Helgeby, Ralph O., assignor.)

General Motors Corporation. (See Kettering, C. F., and Sittler, assignors.)

General Motors Corporation. (See Phelps, A. W., and Kull, assignors.)

General Motors Corporation. (See Smith, Rolf M., assignor.)

General Motors Corporation. (See Tyler, J. M., and Van Degrift, assignors.)

General Railway Signal Company. (See Preston, Neil D., assignor.)

General Railway Signal Company. (See Wells, Robert F., assignor.)

General Time Instruments Corporation. (See Morris, William J., assignor.)

George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Road material spreading machine. 2,159,554; May 23.

Gephart Manufacturing Co. (See Harsted, Harry H., assignor.)

Gerhard, Ernst, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Magnetron system for simultaneous transmission and reception. 2,159,478; May 23.

Gibbons, Vincent J., Columbus, Ohio. Method and means for securing heavy bodies during shipment. 2,159,848; May 23.

Gibson, Heyward P. (See Leusch, V. W., and Gibson.)

Gibson Patents Holding Corporation. (See Lotz, Rudolph W., assignor.)

Gillette Safety Razor Company. (See Muros, Joseph, assignor.)

Gisholt Machine Company. (See Godfriaux, Louis E., assignor.)

Glover, John, Chicago, Ill., assignor by mesne assignments, to Midway Chemical Co., Jersey City, N. J. Cross head for mops. 2,159,145; May 23.

Godfriaux, Louis E., assignor to Gisholt Machine Company, Madison, Wis. Machine tool. 2,159,207; May 23.

Godowsky, Leopold, Jr. (See Mannes, L. D., and Godowsky.)

Goetze, Hermann, Burscheid, near Cologne, Germany, assignor to F. W. Goetze, New Brunswick, N. J. Gasket and binding therefor. 2,159,355; May 23.

Gogan Machine Corporation. (See Andrews, Kinloch D., assignor.)

Goldstein, Charles K., San Francisco, Calif. Safety device for automotive vehicles. 2,159,078; May 23.

Goodrich, B. F., Company, The. (See Homeier, Otto F., assignor.)

Goodwin, George S., and P. Kass, Chicago, Ill. Railway highway-vehicle carrier. 2,159,479; May 23.

Goodyear, Ellsworth S., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Manufacture of smokeless powder. 2,159,208; May 23.

Gorham, William R., Shibuya-ku, Tokyo, Japan. Driving gear. 2,159,694; May 23.

Gorham, William R., Shibuya-ku, Tokyo, Japan. Induction motor rotor. 2,159,695; May 23.

Görik, Josef, assignor to firm Bekk & Kaulen Chemische Fabrik G. m. b. H., Loevenich, near Cologne, Germany. Photomechanical manufacture of printing forms for intaglio printing. 2,159,588; May 23.

Gorman, William D., assignor to H. Brinton Co., Philadelphia, Pa. Knitting machine. 2,159,266; May 23.

Goulden, Albert B., Los Angeles, Calif. Bracelet attachment. 2,159,079; May 23.

Goulden, Albert B., Los Angeles, Calif. Bracelet attachment. 2,159,080; May 23.

Graemiger, Benjamin, Zurich, Switzerland. Plant for pulverizing and burning coal. 2,159,849; May 23.

Grandstaff, Otho D., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,159,081; May 23.

Gravel, Adelard. (See Rivard, Joseph, assignor.)

Green, Floyd S. (See Adam, F. B., and Green.)

Greenman, Max H. (See Squire, Harold A. and P. J. A.)

Greenstreet, Clarence B., Elsinore, Calif. Mop wringer. 2,159,523; May 23.

Greider, Harold W., Wyoming, and G. A. Fasold, Cincinnati, Ohio, assignors to The Philip Carey Manufacturing Company. Bituminized web. 2,159,586; May 23.

Greider, Harold W., Wyoming, and G. A. Fasold, Mount Healthy, Ohio, assignors to The Philip Carey Manufacturing Company. Apparatus for making bituminized webs. 2,159,587; May 23.

Greve, Herman L., Hollis, assignor to International Mailing Tube and Wrapper Company, Long Island City, N. Y. Carton. 2,159,737; May 23.

Gribbin, Treney P., San Antonio, Tex. Ear and forehead protector. 2,159,435; May 23.

Griesemer, David E. (See Hardgrove, R. M., and Griesemer.)

Grissinger, Daniel D., et al. (See Klermund, Henry G., assignor.)

Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Adjustable support for plumbing fixtures. 2,159,021; May 23.

Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,159,524; May 23.

Gross, Walter R., Grosse Pointe, Mich. Electric ventilator. 2,159,696; May 23.

Grundmann, Gustave L., Westmont, N. J., assignor to Radio Corporation of America. Capacitor. 2,159,793; May 23.

Guardian Safety Seal Company. (See Fabrice, Edward H., assignor.)

Guerbilsky, Alexis, Paris, France. Electromechanical resonator. 2,159,891; May 23.

Guinness, Edward E., Wolverhampton, assignor to Fluvario, Limited, West Bromwich, England. Hydraulic machine. 2,159,941; May 23.

Guinot, Henri M., assignor to les Usines de Melle, Melle, Deux-Sevres, France. Separation of acetic anhydride. 2,159,146; May 23.

Gulf Oil Corporation. (See McCoy, William K., assignor.)

Gümbel, Heinrich, Leipzig, Germany, assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y. Sheet feeding apparatus. 2,159,147; May 23.

Haberbush, Bruno A. (See Weinman, Frank X., assignor.)

Habicht, George C., Snyder, N. Y. Cribbing construction. 2,159,556; May 23.

Hadler, Barholdt C. (See Coleman, G. H., and Hadler.)

Haeuber, Hans, and J. Hirschbeck, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of valuable liquid hydrocarbons. 2,159,148; May 23.

Hagen, Wilhelm, Berlin, W. Thouret, Berlin-Wilmersdorf, and J. Kern, Berlin, Germany, assignors to General Electric Company. Electric lamp and similar devices. 2,159,794; May 23.

Hagendorn, Joseph E., and J. Vervueren, Hewlett, N. Y. Fuse. 2,159,083; May 23.

Hall, C. M., Lamp Company. (See Taylor, A. N., and Worden, assignors.)

Hall, C. M., Lamp Company. (See Worden, N. P., and Foley, assignors.)

Hall, Donald R., Chicago, assignor to Gardner Machine Company, South Beloit, Ill. Work fixture. 2,159,267; May 23.

Hall & McChesney, Inc. (See Cooper, J., and Baule, assignors.)

Hall, William D., Elkins, W. Va. Control system. 2,159,658; May 23.

Halliburton Oil Well Cementing Company. (See Babcock, Earl, assignor.)

Hamilton Manufacturing Company. (See Evans, H. G., and Kleerup, assignors.)

Hamilton Manufacturing Company. (See Kleerup, Bertel J., assignor.)

Hammond, Laurens, Chicago, Ill. Electric organ. 2,159,505; May 23.

Handel, Charles E., Winterset, Iowa. Earth anchor. 2,159,268; May 23.

Hanks, Frederick W., Cleveland, Ohio. Fluid meter. 2,159,892; May 23.

Hansen, Hans. (See Miller, R. S., and Hansen.)

Hansen, Thomas A., Hartford, Conn. Golf tee. 2,159,893; May 23.

Hardgrove, Ralph M., Westfield, N. J., and D. E. Griesemer, Allentown, Pa., assignors to The Babcock & Wilcox Company, Newark, N. J. Distributor for pneumatically transported solid material. 2,159,629; May 23.

Hardy, Donovan H., U. S. Navy, San Diego, Calif. Marking stamp. 2,159,697; May 23.

Harris, Edward. (See Harris, Julius and E.)

Harris, John L., New York, N. Y. Shoe fitter device. 2,159,525; May 23.

Harris, Julius and E., Chicago, Ill. Stem. 2,159,698; May 23.

Harrison, Harry P., assignor of one-half to I. L. Wiener, Chicago, Ill. Wheel-aligning gauge. 2,159,084; May 23.

Harsted, Harry H., assignor to Gephart Manufacturing Co., Chicago, Ill. Fishing rod. 2,159,795; May 23.

Hart, Harold W., Los Angeles, Calif. Wall gas heater. 2,159,149;; May 23.

Hartley, Kenneth, Houston, assignor, by mesne assignments, to Humble Oil & Refining Company, Harris County, Tex. Apparatus for making gravity measurements. 2,159,082; May 23.

Hartman, Max. (See Apotheker, C., Hartman, and Merz.)

Hartwell, Arthur F. (See Hartwell, Benjamin F., L. L., and A. F.)

Hartwell, Benjamin F., L. L., Jr., and A. F., Bellows Falls, Vt. Preparing and premolding heel and quarter portions of boots and shoes. 2,159,762; May 23.

Hartwell, Leslie L., Jr. (See Hartwell, Benjamin F., L. L., and A. F.)

Harvey, Walter L. (See Killinger, George, assignor.)

Harwood, Reymour E., Kenmore, and G. E. Munschauer, assignors to Niagara Machine & Tool Works, Buffalo, N. Y. Clutch and brake. 2,159,326; May 23.

Hasse, Joseph W., Muskegon, Wis., assignor to Anaconda Wire & Cable Company, New York, N. Y. Lead locating means and applying same. 2,159,269; May 23.

Hatch, Alexander G., assignor to Fibre Can Machinery Corporation, Rutland, Vt. Fiber can body. 2,159,948; May 23.

Hawk, Henry W. N., Woodlynne, N. J., assignor to Radio Corporation of America. Quartz piezoelectric element. 2,159,796; May 23.

Hawkins, Paul E., Lakewood, assignor to The Baker-Raulang Company, Cleveland, Ohio. Utility truck. 2,159,022; May 23.

Haux, Elmer H., Tarentum, and E. L. Fix, New Kensington, Pa., assignors to Pittsburgh Plate Glass Company. Process and apparatus for making safety glass. 2,159,630; May 23.

Haynes, Chester W., Springfield, assignor to The Fisk Rubber Corporation, Chicopee Falls, Mass. Machine for coating golf balls or the like. 2,159,850; May 23.

Haynes, Thomas O. (See Fyke, Homer R., assignor.)

Hayward, Landes H., Long Beach, assignor, by mesne assignments, to McGaffey-Taylor Corporation, Bakersfield and Long Beach, Calif. Well cleaning device. 2,159,023; May 23.

Hazeltine Corporation. (See Wheeler, Harold A., assignor.)

Hazen, Ronald M., Ferndale, assignor to General Motors Corporation, Detroit, Mich. U-type two-cycle radial engine. 2,159,209; May 23.

Heil, Harry G., Coalport, Pa. Time or time-control switch. 2,159,085; May 23.

Heimke, Paul. (See Schumacher, W., and Heimke.)

Heintz, Ralph M., assignor to Eclipse Aviation Corporation, East Orange, N. J. Ignition mechanism. 2,159,150; May 23.

Helgeby, Ralph O., Flint, assignor to General Motors Corporation, Detroit, Mich. Speedometer pointer. 2,159,210; May 23.

Heller, Lewis W., East Orange, assignor to The Babcock & Wilcox Company, Newark, N. J. Steam boiler. 2,159,557; May 23.

Hemphill Company. (See Lawson, R. H., and Smith, assignors.)

Hendrick, John V., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Bearing. 2,159,327; May 23.

Hendrick Manufacturing Company. (See Blackburn, Daniel M., assignor.)

Hennicke, Carl R., assignor to Eberhard Manufacturing Company, Division of the Eastern Malleable Iron Company, Cleveland, Ohio. Catch mechanism. 2,159,895; May 23.

Hennig, Karl, Rosslau in Anhalt, assignor to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany. Manufacture of unsaturated fatty acids. 2,159,700; May 23.

Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Metallic composition. 2,159,763; May 23.

Hercules Powder Company. (See Goodyear, Ellsworth S., assignor.)

Herman, Albert, New York, N. Y. Suction sweeper and mop. 2,159,211; May 23.

Hershberger, Albert, Kenmore, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Moistureproofing. 2,159,151; May 23.

Hershberger, Albert, Kenmore, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Making moistureproof material. 2,159,152; May 23.

Hersperger, Herman, Roselle, N. J., assignor to American Radiator Company, New York, N. Y. Air conditioning apparatus. 2,159,024; May 23.

Hester, William F., Drexel Hill, assignor to Röhm & Haas Company, Philadelphia, Pa. Insecticide. 2,159,025; May 23.

Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,159,797; May 23.

Hicken, Elmer E., Collingswood, N. J. Locomotive tender. 2,159,738; May 23.

Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)

Hicks, James E., assignor to Continental-Diamond Fibre Company, Newark, Del. Continuous feeding mechanism. 2,159,851; May 23.

Hill, Charles H., Drexel Hill, Pa., assignor to General Electric Company. Circuit breaker contact. 2,159,764; May 23.

Hill, Frank B. (See Moncrieff, R. W., and Hill.)

Hines, Posie L., Roanoke, Va. Sprayer. 2,159,894; May 23.

Hirsch, Fred B., East Providence, R. I., assignor to Dodgeville Finishing Company, Inc., Attleboro, Mass. Starch applying machine. 2,159,949; May 23.

Hirsch, Fred B., East Providence, R. I. Fluting machine. 2,159,950; May 23.

Hirth, George W., Milwaukee, Wis. Concrete cutting device. 2,159,699; May 23.

Hixon, Alfred J., Braintree, Mass. Connector. 2,159,153; May 23.

Hixon, Alfred J., Braintree, Mass. Cable tapping device. 2,159,154; May 23.

Hirschbeck, Josef. (See Haeuber, H., and Hirschbeck.)

Hoag, Roderick W., Melrose, Mass. Folding box. 2,159,378; May 23.

Hoague-Sprague Corporation. (See Knowlton, Cutler D., assignor.)

Hobbs Sales & Service Station, Inc. (See Minkow, Robert, assignor.)

Hobson, Leland S., Yeadon, Pa., assignor to General Electric Company. Electric circuit breaker. 2,159,829; May 23.

Hobson, Leland S., Yeadon, Pa., assignor to General Electric Company. Electric circuit breaker. 2,159,830; May 23.

Hobson, T. Frank. (See Cross, James R., assignor.)

Hocker, Fred. (See Welk, N. S., and Hocker.)

Hoetze, Frederick W. (See Goetze, Hermann, assignor.)

Hoffmann-La Roche Inc. (See Wenner, Wilhelm, assignor.)

Holt, W. Clinton. (See Wright, George N., assignor.)

Holton, Ernest A. (See Wood, Albert A., assignor.)

Holton, Homer H., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Manufacture of sodium citrate di-hydrate. 2,159,155; May 23.

Homeier, Otto F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pressing apparatus for articles such as valve stems. 2,159,852; May 23.

Honer, Henry Los Angeles, assignor to Western Stove Company, Culver City, Calif. Heater attachment for ranges. 2,159,156; May 23.

Hones, Charles A., Inc. (See Hones, William R., assignor.)

Hones, William R., assignor to Charles A. Hones, Inc., Baldwin, N. Y. Oven furnace. 2,159,480; May 23.

Honig, Adriaan N., Hilversum, assignor to Naamlooze Vennootschap; Oliefabrieken "Het Hart" en "De Zwaan" Voorheen Adriaan Honig, Zaandam, Netherlands. Device for laying cloths about pre-pressed cakes in oil-pressing apparatus. 2,159,270; May 23.

Hoover Company, The. (See Kitto, William H., assignor.)

Hoover Company, The. (See White, Harry B., assignor.)

Hoover Company, The. (See Zacharias, Robert M., assignor.)

Hope, Samuel N., Wauwatosa, assignor to Columbian Art Works, Milwaukee, Wis. Desk pad. 2,159,212; May 23.

Houdaille-Hershey Corporation. (See Jandus, H. S., and Sandberg, assignors.)

Houdaille-Hershey Incorporation. (See Sandberg, R. A., and Van Sickel, assignors.)

House, Frank R., Baldwin Harbor, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Sound locator receiver. 2,159,481; May 23.

House, Frank R., Baldwin Harbor, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. System of locating aircraft at night. 2,159,482; May 23.

Howard, Joseph A., assignor of one-third to The Mouided Hair Company Limited, London, and one-third to J. A. Talalay, Bedford, England. Upholstery padding material. 2,159,213; May 23.

Hopkins, Herbert G., Yuma, Ariz. Induced flow well-point attachment. 2,159,157; May 23.

Horgan, George D., London, England, assignor to American Machine & Foundry Company, New York, N. Y. Packing of cigarettes and other articles. 2,159,158; May 23.

Horinstein, Philip, Chicago, Ill. Indicating apparatus. 2,159,328; May 23.

Horle, Lawrence C. F., Newark, N. J. Method of and means for indicating direction. 2,159,159; May 23.

Horsch, William F., and J. M. Thompson, Monessen, Pa. Nut lock. 2,159,160; May 23.

Houdremont, Eduard, and H. Schrader, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr Germany. Manufacture of high speed steels. 2,159,086; May 23.

Hubald, Bernhard. (See Seliger, H., Bretschneider, Hubald, Krüger, and Trugilitzka.)

Huck, Louis C., Grosse Point Village, Mich., assignor to Huxon Holding Corporation. Trigger construction. 2,159,590; May 23.

Huebener, Mary A., and J. U. Lehn, assignors to Animal Trap Company of America, Lititz, Pa. Animal trap. 2,159,483; May 23.

Hueck, Claus. (See Zeh, L., and Hueck.)

Humason, Granville A., Houston, Tex. Pump. 2,159,526; May 23.

Humble Oil & Refining Company. (See Hartley, Kenneth, assignor.)

Hyman, Henry. (See Muldoon, Bernard F., assignor.)

Hunt, James K. (See Latham, G. H., and Hunt.)

Hurst, Eda, et al. (See Strobel, Roy E., assignor.)

Hurst, Fred. (See Strobel, Roy E.)

Huxon Holding Corporation. (See Huck, Louis C., assignor.)

Hyatt, Elmer, Kansas City, Mo. Pocket knife. 2,159,798; May 23.

Hydraulic Press Corporation, The. (See Ernst, Walter, assignor.)

Hydraulic Press Corp., The. (See Lawyer, Ira B., assignor.)

Hyland, Lawrence A., Washington, D. C., assignor, by mesne assignments, to Bendix Radio Corporation, New York, N. Y. Radio antenna. 2,159,379; May 23.

Hyle, Carrie M., Kansas City, Mo. Chronological gas-recording apparatus. 2,159,380; May 23.

I. G. Farbenindustrie Aktiengesellschaft. (See Duftschmid, F., Linckh, and Winkler, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Eckeli, J., and Ritter, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Haeuber, H., and Hirschbeck, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Mueller-Cunradi, M., and Uloth, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Schlecht, L., and Schubardt, assignors.)

Iavelli, Teno. (See Neracher, C. A., and Iavelli.)

Ibañez, Francisco R., Mexico, D. F., Mexico. Articulated mechanism for the transmission of movement. 2,159,896; May 23.

Ickes-Braun Mill Company. (See Gast, Ernst, assignor.)

Illinois Clay Products Company, The. (See Jones, O. L., and Essex, assignors.)

Imperial Chemical Industries Limited. (See Rubenstein, L., and Taylor, assignors.)

Imperial Chemical Industries, Limited. (See Taylor, James, assignor.)

Impress Company, The. (See Niles, Irving F., assignor.)

Indiana Fibre Products Company. (See Richards, Ralph N., assignor.)

Ingham, William I. (See Draving, A. M., and Ingham.)

Inland Bed Company. (See Erdos, John, assignor.)

International Business Machines Corporation. (See Livingston, Harry T., assignor.)

International Cigar Machinery Company. (See Brophy, William J., assignor.)

International Cigar Machinery Company. (See Rundell, R. E., and Neumair, assignors.)

International Detachable Bits & Equipment, Limited. (See Cook, Charles E., assignor.)

International Harvester Company. (See Johnson, A. E. W., and Kriegbaum, assignors.)

International Harvester Company. (See Lindgren, Alexus C., assignor.)

International Harvester Company. (See Morkoski, James, assignor.)

International Mailing Tube and Wrapper Company. (See Greve, Herman L., assignor.)

International Milling Company. (See Cecka, Thomas G., assignor.)

International Nickel Company, The. (See Pfeil, Leonard B., assignor.)

International Nickel Company, The. (See Wallis, Albert E., assignor.)

Isler, Ernest, assignor to Steatit-Verkaufsgesellschaft A. G. (Steatite Trading Ltd.), Basel, Switzerland. Closure for collapsible tubes. 2,159,161; May 23.

Jackson, Joseph G., Oak Park, assignor to The Edward Katzinger Company, Chicago, Ill. Making integral ferrules and tool shanks. 2,159,329; May 23.

Jacob, Paul. (See Pier, M., Simon, and Jacob.)

Jacobson, Benno Y., New York, N. Y. Tag fastener. 2,159,026; May 23.

Jaeger Machine Company, The. (See Bohmer, C. I., and Gatch, assignors.)

Jaeger Machine Company, The. (See Mosel, Joseph H., assignor.)

Jalma, Michael M., and H. Coutinho, New York, N. Y.; said Coutinho assignor to said Jalma. Process and apparatus for roasting. 2,159,027; May 23.

Janda, Rudolph W., Berwyn, assignor to Fairbanks, Morse & Co., Chicago, Ill. Washing machine agitator. 2,159,271; May 23.

Jandus, Herbert S., Detroit, Mich., and R. A. Sandberg, Waukegan, Ill., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever construction. 2,159,799; May 23.

Jeffrey Manufacturing Company, The. (See Bauroth, Walter J., assignor.)

Jeffrey Manufacturing Company, The. (See Jeffrey, Robert K., assignor.)

Jeffrey, Robert K., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Drilling machine. 2,159,087; May 23.

Jeffrey, Robert K., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Drilling machine switch. 2,159,088; May 23.

Jeffrey, Robert K., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Drilling machine. 2,159,089; May 23.

Jeffrey, Robert K., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Drilling machine switch. 2,159,089; May 23.

Jenks, Ransaeller J., Lewiston, Idaho. Rotating clothes drier. 2,159,436; May 23.

Jochum, Kurt, Frankfort-on-the-Main, H. Geier, Zittau, and K. Pauser, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Washing composition. 2,159,381; May 23.

John, James L., South Colby, Wash. Angularity adjusting means for feathering rotors and the like. 2,159,382; May 23.

Johns-Manville Corporation. (See Nies, Herman H., assignor.)

Johns-Manville Corporation. (See Parkinson, John S., assignor.)

Johnson, Arnold E. W., Chicago, Ill., and G. M. Kriegbaum, Richmond, Ind., assignors to International Harvester Company. Hopper construction. 2,159,659; May 23.

Johnson, Bror A. E., Alsten, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Machine for making cross-bottom paper bags. 2,159,853; May 23.

Johnson, Carl W., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Tap holder chuck. 2,159,162; May 23.

Johnson, Cecil F., Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Insulating bat. 2,159,028; May 23.

Johnson, Charlie. (See Montgomery, C. C., and Johnson.)

Johnson, William H., Cranston, assignor to Weskenson Corporation, Providence, R. I. Overlapping cam action. 2,159,739; May 23.

Johnson, William H., Cranston, assignor to Weskenson Corporation, Providence, R. I. Variable speed transmission. 2,159,740; May 23.

Jolliffe, John J., Hawthorne, assignor to The Okonite Company, Passaic, N. J. Electric connector or terminal. 2,159,163; May 23.

Jones, Otis L., Joliet, and J. L. Essex, La Grange, assignors to The Illinois Clay Products Company, Joliet, Ill. Foundry sand. 2,159,952; May 23.

Jones, Walter I., Arlington, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Slip cover installation and fastener for the same. 2,159,383; May 23.

Jonker, Johan L. H., and B. O. M. Gall, assignors to N. V. Philips Gloeilampenfabriken, Eindhoven, Netherlands. Electron discharge device. 2,159,765; May 23.

Jordre, William S. (See Trainer, J. E., Ziegler, Yeo, and Jordre.)

Jourdan, Lionel F., and H. A. Levey, New Orleans, La. Corrosion-resistant battery terminal. 2,159,854; May 23.

Kaak, Kurt, assignor to The Narow Fabric Company, West Reading, Pa. Warp knit fabric. 2,159,615; May 23.

Kahn, Julius, and W. F. Schulz, Youngstown, assignors to Republic Steel Corporation, Cleveland, Ohio. Thread protector. 2,159,929; May 23.

Kalischer, Milton, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerator unit. 2,159,592; May 23.

Karlström, Johan F. R., Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del. Suction nozzle. 2,159,164; May 23.

Karzenski, Edward, Riverhead, N. Y. Can holder and contents dispenser. 2,159,897; May 23.

Kass, Peter. (See Goodwin, G. S., and Kass.)

Katzinger, Edward, Company, The. (See Jackson, Joseph G., assignor.)

Kauffman, Milton M., Los Angeles, Calif. Electric connector. 2,159,660; May 23.

Kauppi, Toivo A., assignor to The Dow Chemical Company, Midland, Mich. Ethyl cellulose-nitrocellulose composition. 2,159,384; May 23.

Keller, Karl H., Cleveland Heights, Ohio, assignor to General Electric Company. Heat treating apparatus. 2,159,800; May 23.

Keller, William H., Inc. (See Shaff, Ernest H., assignor.)

Kelley, Cecil S., Forest Hills, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic horn. 2,159,801; May 23.

Kelly, Edward G., assignor to Stewart-Warner Corporation, Chicago, Ill. Electric speedometer. 2,159,330; May 23.
Kelsey-Hayes Wheel Company. (See Bierwirth, E. A., and Kienle, assignors.)
Kelsey-Hayes Wheel Company. (See Booth, William N., assignor.)
Kelsey-Hayes Wheel Company. (See Ellis, Emmett S., assignor.)
Kelsey-Hayes Wheel Company. (See Le Jeune, Frank H., assignor.)
Kelsey-Hayes Wheel Company. (See Le Jeune, F. H., and Copeland, assignors.)
Kelsey-Hayes Wheel Company. (See Sinclair, Charles W., assignor.)
Kennedy, Joseph E., New York, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa. Reducing material. 2,159,272; May 23.
Kenney, Mahlon W., River Forest, assignor to General Household Utilities Company, Chicago, Ill. Refrigerating apparatus. 2,159,898; May 23.
Kent, Frederick J., Glen Rock, assignor to Sipp-Eastwood Corporation, Paterson, N. J. Winding machine. 2,159,385; May 23.
Kercher, Arthur J., Berkeley, Calif. Thermostatic switch. 2,159,090; May 23.
Kern, Josef. (See Hagen, W., Thouret, and Kern.)
Kethur, Richard. (See Wilmanns, G., Schneider, and Kethur.)
Kettering, Charles F., and E. C. Sittler, assignors to General Motors Corporation, Dayton, Ohio. Bed air conditioning apparatus. 2,159,741; May 23.
Kettner, Alfred N., Los Angeles, Calif. Guide. 2,159,386; May 23.
Kienle, Herman J. (See Bierwirth, E. A., and Kienle.)
Killinger, George, Burlington, assignor of one-half to W. L. Harvey, Marshalltown, Iowa. Hunter's blind. 2,159,273; May 23.
Kilmer, Ogden, Hasbrouck Heights, N. J. Locking slider for slide fasteners. 2,159,387; May 23.
Kimball, Charles N., East Orange, N. J., and E. W. Wilby, Westerleigh, Staten Island, N. Y., assignors to Radio Corporation of America. Tuning indicator circuit. 2,159,802; May 23.
Kimpton, William D. (See Bundenthal, Jacob and G., and Kimpton.)
King, Dean W., San Mate, Calif. Firearm hammer. 2,159,527; May 23.
King Manufacturing Corporation. (See Senauke, Alexander, assignor.)
Kingsbury, George P., Hollis, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. 2,159,274; May 23.
King-Seeley Corporation. (See Darnell, Rex C., assignor.)
Kingston Products Corporation. (See Douglas, Harry A., assignor.)
Kinney, Le Baron W., Jr., assignor to The White Motor Company, Cleveland, Ohio. Liquid level indicator. 2,159,275; May 23.
Kirby, William D., Arlington, Kans. Dental flask. 2,159,437; May 23.
Kitto, William H., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,159,701; May 23.
Kirch, Ernst, Berlin–Niederschoneweide, Germany, assignor to General Electric Company. Gas pressure electric cable. 2,159,742; May 23.
Kishline, Floyd F., Birmingham, and G. L. Reynolds, Detroit, Mich. Oil cooler and filter. 2,159,558; May 23.
Kleerup, Bertel J., Chicago, Ill., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Image projection device. 2,159,616; May 23.
Kleeprup, Bertel J. (See Evans, H. G., and Kleerup.)
Klein, Arthur H., Milwaukee, Wis. Chimney connector. 2,159,539; May 23.
Klein, Maximilian, and B. Willach, assignors to United States Gauge Company, Sellersville, Pa. Combined indicator and electrical circuit controller. 2,159,702; May 23.
Klein, Samuel, Newark, N. J. Double salt of calcium ascorbate and calcium acetylsallcylate and making same. 2,159,214; May 23.
Kleist, Dale. (See Atkinson, F. W., Kleist, Slayter, Thomas, and Lannan.)
Klermund, Henry G., assignor of one-fourth to A. E. Norling and one-fourth to W. S. Dawson, Oberlin, and one-fourth to D. D. Grissinger, Wellington, Ohio. Cylinder head puller. 2,159,593; May 23.
Kling, Fred E., Youngstown, Ohio, and H. F. Shaw, McKeesport, Pa. Connecting rod. 2,159,165; May 23.
Klingelhoefer, William C., Jr., Syracuse, assignor to The Solvay Process Company, New York, N. Y. Catalytic oxidation of nitrosyl chloride and nitric oxide. 2,159,528; May 23.
Klotz, Ernst, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Automatic volume control receiver. 2,159,803; May 23.
Klute, Oscar, Rochester, N. Y. Feed finger for screw machines. 2,159,388; May 23.
Knapp-Monarch Company. (See Smith, Howard A., assignor.)
Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lock stitch shoe sewing machine. 2,159,166; May 23.
Knowlton, Cutler D., Beverly, assignor to Hoague-Sprague Corporation, Lynn, Mass. Web-marking mechanism. 2,159,029; May 23.
Knudsen, Percy E., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Double glazed window. 2,159,661; May 23.
Koch, Paul W., Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Rate of climb indicator. 2,159,703; May 23.
Kopitke, William H., Toledo, Ohio, assignor, by mesne assignments, to Plax Corporation, Hartford, Conn. Apparatus for dipping objects. 2,159,091; May 23.
Kranz, Bertold, assignor to Zellstofffabrik Waldhof, Mannheim-Waldhof, Germany. Utilization of the heat content of hot residual liquors. 2,159,899; May 23.
Kränzlein, Georg, H. Schlichenmaier, and T. Meissner, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Anthraquinone dyestuffs capable of being chromed. 2,159,506; May 23.
Kriegbaum, George M. (See Johnson, A. E. W., and Kriegbaum.)
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid fuel burner control system. 2,159,617; May 23.
Krüger, Willy. (See Seliger, H., Bretschneider, Hubald, Krüger, and Truglitzka.)
Krupp, Fried., Aktiengesellschaft. (See Houdremont, E., and Schrader, assignors.)
Kuhn, Frank. (See Thomas, L. H., and Kuhn.)
Kull, Walter A. (See Phelps, A. W., and Kull.)
Kurlash Company, The. (See Tuttle, W. R., and Stickel, assignors.)
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Esters of cyclic alcohol. 2,159,594; May 23.
Lacy, Franklin R., Jr., assignor to Lacy Products Corp., Chicago, Ill. Electrically heated container. 2,159,876; May 23.
Lacy Products Corp. (See Lacy, Franklin R., Jr., assignor.)
Lagaard, Alexander S. T., Minneapolis, Minn. Dough cutter. 2,159,726; May 23.
Lamb, Newton, Saginaw, assignor to The Dow Chemical Company, Midland, Mich. Preparation of leuco-indigo. 2,159,930; May 23.
Lambert, Archie F., Bellingham, Wash. Cigarette dispenser. 2,159,356; May 23.
Lambert, Robert D., assignor to American Radiator Company, New York, N. Y. Air conditioning apparatus. 2,159,030; May 23.
Lancaster, John T., Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for applying pressure to shoe bottoms. 2,159,031; May 23.
Landreth, Morton L., Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Coin controlled apparatus. 2,159,215; May 23.
Langenwalter, Hans-Wolfgang, Klein-Machnow, and E. Ruska, Berlin-Zehlendorf, assignors to the firm Fernseh Aktien-Gesellschaft, Zehlendorf, near Berlin, Germany. Electron multiplier. 2,159,529; May 23.
Lannan, George M. (See Atkinson, F. W., Kleist, Slayter, Thomas, and Lannan.)
Lanston Monotype Machine Company. (See Dewhurst, Maurice R., assignor.)
Lanston Monotype Machine Company. (See Elliott, Richard C., assignor.)
Lanston Monotype Machine Company. (See Wigg, William, assignor.)
La Plant-Choate Manufacturing Company. (See Austin, Ellsworth W., assignor.)
Larrecq, Anthony J., Beachbluff, Mass., assignor to General Electric Company. Labyrinth packing. 2,159,766; May 23.
Latham, George H., and J. K. Hunt, assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and preparing same. 2,159,743; May 23.
Laugaudin, Eugene J., Paris, France. Shock absorber. 2,159,855; May 23.
Law, George H., South Charleston, and R. W. McNamee, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Isomerization of alkylene oxides. 2,159,507; May 23.
Lawless, Albert J., Dedham, assignor, by mesne assignments, to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system. 2,159,276; May 23.
Lawrence, Archibald R., Halifax, Nova Scotia, Canada. Hydraulic drill column. 2,159,092; May 23.
Lawson, Robert H., and W. L. Smith, Jr., Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Knitting machine. 2,159,942; May 23.
Lawson, Walter E., and C. P. Spaeth, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. N-nitroaryl polyhydroxy alkyl amino compounds and preparing the same. 2,159,804; May 23.
Lawyer, Ira B., Mount Gilead, Ohio, assignor to The Hydraulic Press Corp. Inc., Wilmington, Del. Feeding mechanism for plastic extrusion molding machines. 2,159,559; May 23.

Lea, William G., Rome, Ga., assignor to Tubize Chatillon Corporation, New York, N. Y. Winding yarn. 2,159,032; May 23.
Le Bleu, Charles, Los Angeles, Calif. Scraper. 2,159,438; May 23.
Lee, Orval W., Spokane, Wash. Method of and apparatus for determining pupillary distance. 2,159,277; May 23.
Lee, Roger K., assignor to Chrysler Corporation, Highland Park, Mich. Engine. 2,159,331; May 23.
Lee, Roger K., assignor to Chrysler Corporation, Highland Park, Mich. Motor vehicle. 2,159,332; May 23.
Le Fevre, Arden W., and W. H. Farr, Chicago, and G. E. Coxon, Cicero, and J. B. Whitted, Evanston, assignors to Stewart-Warner Corporation, Chicago, Ill. Electric speedometer. 2,159,333; May 23.
Le Fevre, Arden W., and T. Paul, Chicago, and G. E. Coxon, Cicero, assignors to Stewart-Warner Corporation, Chicago, Ill. Electric speedometer. 2,159,389; May 23.
Lehn, John U. (See Huebener, M. A., and Lehn.)
Leighton, Robert, London, England. Bookbinding machinery. 2,159,439; May 23.
Le Jeune, Frank H., and J. E. Copeland, assignors to Kelsey-Hayes Wheel Company, Detroit, Mich. Machine for fashioning annular sheet metal articles. 2,159,900; May 23.
Le Jeune, Frank H., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Metalworking machine. 2,159,901; May 23.
Lenz, Kurt, Berlin-Lichterfelde, and E. Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company. Sealing material for vacuum vessels. 2,159,805; May 23.
Lenz, Kurt, Berlin-Lichterfelde, and E. Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company. Sealing material for vacuum vessels. 2,159,806; May 23.
Lenz, Kurt, Berlin-Lichterfelde, and E. Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company. Sealing material for vacuum vessels. 2,159,807; May 23.
Lenz, Kurt, Berlin-Lichterfelde, and E. Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company. Sealing material for vacuum vessels. 2,159,808; May 23.
Lenz, Kurt, Berlin-Lichterfelde, and E. Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company. Sealing material for vacuum vessels. 2,159,809; May 23.
Lenz, Kurt, Berlin-Lichterfelde, and E. Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company. Sealing material for vacuum vessels. 2,159,810; May 23.
Leonard, Frederick C., Cranston, R. I. Fluid mixing valve. 2,159,033; May 23.
Leonardo, John J., assignor of one-half to S. Spector, Philadelphia, Pa. Pipe fitting. 2,159,811; May 23.
Lesley, Oliver R., Los Angeles, Calif. Supercharger. 2,159,278; May 23.
Les Usines de Melle. (See Guinot, Henri M., assignor.)
Lesusch, Victor W., and H. P. Gibson, assignors to South Bend Bait Company, South Bend, Ind. Fishing lure. 2,159,591; May 23.
Le Vesconte, Harold J. (See Christensen, N. V., and Le Vesconte.)
Levey, Harold A. (See Jourdan, L. F., and Levey.)
Levey, Harold A., New Orleans, La. Cigarette and making the same. 2,159,704; May 23.
Levy, Gustave, Weehawken, N. J. Vent valve for steam heating radiators. 2,159,484; May 23.
Lewis, George W. (See Starr, O. L., and Lewis.)
Lewis, George W., Hudson, Mass. Ironing table. 2,159,662; May 23.
Lewis, Hugh S., Rogers City, Mich. Protective railing for boat hatches. 2,159,902; May 23.
Liberty Optical Company, Inc. (See Reichert, Ellsworth, assignor.)
Liebich, Georg, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electron discharge device. 2,159,767; May 23.
Lilienfeld, Leon, Vienna, Austria. Alcoholic beverage of reduced inebriating capacity. 2,159,167; May 23.
Linckh, Edward. (See Duftschmid, F., Linckh, and Winkler.)
Lindgren, Alexus C., Chicago, Ill., assignor to International Harvester Company. Grain screen for feeders. 2,159,663; May 23.
Lindgren, Alexus C., Chicago, Ill., assignor to International Harvester Company. Thresher. 2,159,664; May 23.
Lindhagen, Knut E. (See Waage, E., and Lindhagen.)
Lindsley, Edward A., assignor to National Electric Screen Co., Chicago, Ill. Electrocuting trap. 2,159,618; May 23.
Link, Arthur C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone coin-collecting apparatus. 2,159,216; May 23.
Link-Belt Company. (See Tark, Marcus B., assignor.)
Lipowsky, Louis M., and I. Bach, Brooklyn, N. Y. Container for bakery products. 2,159,279; May 23.
Lisle, Howard C., Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif. Fruit and other product washing machine. 2,159,619; May 23.
Liss, Joseph J., Chicago, Ill. Handle for oars, cranks, and the like. 2,159,093; May 23.
Livar, Allen P., Yonkers, assignor to Reynolds Corporation, New York, N. Y. Sectional furnace. 2,159,440; May 23.
Livingston, Harry T., Brooklyn, assignor to International Business Machines Corporation, New York, N. Y. Tabulating machine. 2,159,094; May 23.
Lockhart, William, assignor to Cornell Securities Corporation, Cleveland, Ohio. Receptacle and closure therefor. 2,159,390; May 23.
Long, Eli M., assignor to Shuron Optical Company, Inc., Geneva, N. Y. Lens grinding and polishing machine. 2,159,620; May 23.
Long, James, Dunedin, Otago, New Zealand. Safety razor. 2,159,560; May 23.
Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm. 2,159,485; May 23.
Lopp, Edmund H. (See Veenemans, C. F., Lopp, and Bruining.)
Lotz, Rudolph W., Chicago, Ill., assignor to Gibson Patents Holding Corporation. Knock-down closure structure for windows and doors. 2,159,666; May 23.
Lowenstein, Herman H., Chicago, Ill. Detachable supporting means. 2,159,357; May 23.
Lozier, Matthew, Brooklyn, N. Y., and C. H. Frost, Newark, N. J., assignors to Cook Laboratories, Inc., New York, N. Y. Controllable transfer element for multiple ampules. 2,159,217; May 23.
Lukow, Herman T., et al. (See Sachs, Erich, assignors.)
Lynch, John S., Massillon, assignor, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Method of and apparatus for removing scale from and sizing rods and the like. 2,159,561; May 23.
Lytle, William O., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Vitreous shingle. 2,159,665; May 23.
M. J. B. Company. (See Burns, Wilford E., assignor.)
MacClatchie, John W., Los Angeles, assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Blowout preventer. 2,159,540; May 23.
MacClatchie, John W., Los Angeles, assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Blowout preventer. 2,159,541; May 23.
MacClatchie Manufacturing Company of California. (See MacClatchie, John W., assignor.)
MacGregor, Peter G., Pequannock, assignor to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 2,159,168; May 23.
Mackay Radio and Telegraph Company. (See Alford, Andrew, assignor.)
Mackay Radio & Telegraph Company. (See Royden, George T., assignor.)
MacLaren, Frederick H., Calumet City, assignor to Standard Oil Company, Chicago, Ill. Wax. 2,159,218; May 23.
MacLean, Gordon, Flushing, assignor to The Turbo-Mixer Corporation, New York, N. Y. Mixing or dissolving apparatus, etc. 2,159,856; May 23.
Macmillan, Campbell, Scotia, Ne. Y., assignor to General Electric Company. High power factor induction motor. 2,159,768; May 23.
Madan, Edward K., Maplewood, N. J. Dial. 2,159,095; May 23.
Madden, William J., Lansdowne, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., System of air distribution. 2,159,219; May 23.
Maglott, George F., Wrentham, Mass., assignor to Brown & Sharpe Manufacturing Company. Gear pump. 2,159,744; May 23.
Magnesium Development Corporation. (See Balz, Philipp, assignor.)
Magnesium Development Corporation. (See Seliger, H., Bretschneider, Hubald, Krüger, and Truglitzka, assignors.)
Mallinckrodt Corporation. (See Bennett, Albert L., assignor.)
Mallory, P. R., & Co. (See Fruth, Hal F., assignor.)
Mallory, P. R., & Co. (See Hensel, Franz R., assignor.)
Malloy, John J., Cleveland Heights, Ohio, assignor to General Electric Company. Electric lamp or similar device. 2,159,812; May 23.
Malter, Louis. (See Zworykin, V. K., and Malter.)
Manitowoc Shipbuilding Corporation. (See West, John D., assignor.)
Manke, Gustave L., Hartford, Conn., assignor to Veeder-Root Incorporated. Counter. 2,159,334; May 23.
Manly Corporation. (See Centervall, Hugo A., assignor.)
Mannes, Leopold D., Rochester, N. Y., and L. Godowsky, Jr., Westport, Conn., assignors to Eastman Kodak Company, Rochester, N. Y. Sound image on multilayer film. 2,159,280; May 23.
Manning, Bowman & Co. (See Young, Allan M., assignor.)
Man-Sew Pinking Attachment Corp. (See Sigoda, Victor J., assignor.)
Marécaux, Paul, Nancy, France. Method and plant for the hydrogenation of carbonaceous substances containing sulphur. 2,159,281; May 23.
Marino, Louis, Kansas City, Mo. Bat-forming table. 2,159,282; May 23.
Maris, James C., Glenolden, Pa. Lateral motion device. 2,159,813; May 23.
Markley, Joseph M., Jr., assignor of one-half to M. D. Markley, Canton, Ohio. Recording mechanism for vehicles. 2,159,727; May 23.
Markley, Myron D. (See Markley, Joseph M., Jr., assignor.)

Markwick, Frederick H., assignor to The Sheffield Gage Corporation, Dayton, Ohio. Measuring instrument. 2,159,335; May 23.

Markwick, Frederick H., and L. F. Poock, assignors to The Sheffield Gage Corporation, Dayton, Ohio. Lapping machine. 2,159,336; May 23.

Marshall, Clinton E., Bronx, N. Y. Insigne insert clip. 2,159,745; May 23.

Martin, Wilhelm, Oberbruch, Bez, Aachen, Germany, assignor to North American Rayon Corporation, New York, N. Y. Polishing of spinnerettes. 2,159,391; May 23.

Marty, Adam, Monroe, Wis. Animal restrainer. 2,159,441; May 23.

Marvin, Stanley, San Francisco, assignor to B. E. Witkin, Oakland, Calif. Laundry press garment clamp. 2,159,667; May 23.

Masbruch, Henry, Platteville, Wis. Manifold cooled skating pond spray. 2,159,508; May 23.

Maschinenfabrik Moenus Aktiengesellschaft. (See Muller, H., and Sauer, assignors.)

Maschwitz, Percy A., assignor to The Pure Oil Company, Chicago, Ill. Promoting and controlling the polymerization of hydrocarbon gases. 2,159,746; May 23.

Mathews, William E., Birmingham, Ala. Stirrup assembly. 2,159,668; May 23.

Matthews, Wayne, Oakland, Calif. Battery. 2,159,034; May 23.

Maurer, Edwin R., Detroit, and J. H. Coyne, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,159,442; May 23.

Mautsch, Robert, Brussels, Belgium. Electric furnace for melting metals. 2,159,169; May 23.

Max, Stephen J., Buffalo, N. Y. Automobile slide aerial. 2,159,903; May 23.

Maybach, Karl, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany. Device for actuating a clutch and a change speed gear in automobiles. 2,159,170; May 23.

Maybach-Motorenbau G. m. b. H. (See Maybach, Karl, assignor.)

Mayer, Robert, New York, N. Y. Philatelic device. 2,159,486; May 25.

McBain, William C., Youngstown, Ohio. Roll bearing. 2,159,337; May 23.

McBee Company, The. (See Welk, N. S., and Hocker, assignors.)

McCabe, Ira E., Chicago, Ill. Electric switch. 2,159,392; May 23.

McClintock, Lynn H., Los Angeles, and N. B. Currier, Wilmington, Calif.; said Currier assignor to said McClintock. Paper roll holder and dispenser. 2,159,443; May 23.

McCluer, Wilbert B., and M. R. Fenske, State College, Pa., assignors to Pennsylvania Petroleum Research Corporation. Treating mineral oils. 2,159,444; May 23.

McCluskey, Leroy M., Portland, Maine. Navigational and drafting instrument. 2,159,562; May 23.

McCorkhill, Jesse C., Jacksonville, Fla. Shaker and moisture absorbing materials therefor. 2,159,171; May 23.

McCormick, Elmer, assignor to John Deere Tractor Company, Waterloo, Iowa. Governor control mechanism. 2,159,283; May 23.

McCoy, William K., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Sealing means for thermocouples. 2,159,705; May 23.

McCrudden, Frederick R., Bloomfield, assignor to The National Lock Washer Company, Newark, N. J. Spring washer. 2,159,393; May 23.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Magnetic traction booster. 2,159,814; May 23.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor lubricating device. 2,159,815; May 23.

McDonough, Henry, Elgin, Ill. First aid kit. 2,159,904; May 23.

McGaffey-Taylor Corporation. (See Hayward, Landes H., assignor.)

McGrath, Edward J., Jr., Cleveland, Ohio. Method and means for use in fitting clothing. 2,159,035; May 23.

McLeod, John D., Oakmont, and H. A. Reynolds, Ford City, Pa., assignors to Pittsburgh Plate Glass Company. Apparatus for removing plaster from plate glass surfacing tables. 2,159,631; May 23.

McMillan, Martin H., Vallejo, Calif. Work bench. 2,159,172; May 23.

McNamee, Raymond W. (See Law, G. H., and McNamee.)

McNaney, Edward T., Catonsville, Md. Card game. 2,159,563; May 23.

McNulty, George M., Cranford, N. J., and E. W. Adams, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Manufacture of lubricants. 2,159,220; May 23.

McPherson, Harry L., Memphis, Tenn. Leg hinge, as for tables. 2,159,564; May 23.

McSwain, Claude W., Raleigh, N. C. Automatic drop-test machine. 2,159,036; May 23.

Mechanism Limited. (See Moss, Douglas G. K., assignor.)

Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,159,037; May 23.

Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,159,038; May 23.

Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,159,565; May 23.

Meissner, Theodor. (See Kränzlein, G., Schlichenmaier, and Meissner.)

Mellor, Lewis L., and A. Zaugg, assignors to Paramount Productions, Inc., Los Angeles, Calif. Variable equivalent focal length lens. 2,159,394; May 23.

Mendenhall, Hallam E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Glow discharge device. 2,159,747; May 23.

Mennesson, Marcel, assignor to Société Anonyme Solex", Neuilly-sur-Seine, France. Carburetor for internal combustion engines. 2,159,173; May 23.

Mergenthaler Linotype Company. (See Kingsbury, George P., assignor.)

Mersereau, Charles J., Sacramento, Calif. Trailer control. 2,159,395; May 23.

Mervis, Lou. (See Cullin, Jasper F., assignor.)

Merz, Emil. (See Apotheker, C., Hartmann, and Merz.)

Metal Trim Limited. (See Penkala, Emil, assignor.)

Metz, John, Hollis, N. Y. Hair waving device. 2,159,358; May 23.

Meyer, Edwin M., Parkersburg, W. Va., assignor to Porcelain Products, Inc., Hancock County, Ohio. Indicating fuse cut-out. 2,159,039; May 23.

Midway Chemical Co. (See Glover, John, assignor.)

Midwest Manufacturing Company. (See Birkholz, Richard G., assignor.)

Miller, Ernest M. (See Denison, F. S., and Miller.)

Miller, Ralph L., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency conversion circuits. 2,159,595; May 23.

Miller, Ralph L., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency conversion circuits. 2,159,596; May 23.

Miller, Ralph L., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency conversion circuits. 2,159,597; May 23.

Miller, Ralph K., and R. R. Candor, Dayton, Ohio. Refrigerating apparatus. 2,159,748; May 23.

Miller, Robert S., and H. Hansen, Portland, Oreg., assignors, by mesne assignments, to W. A. Deming, Bellingham, Wash. Conveyer chain. 2,159,396; May 23.

Miller, Wayland R., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Domestic heating and hot water supply system. 2,159,284; May 23.

Miller, William B. (See Tashjian, Armen H., assignor.)

Mills, Herbert E., Detroit, Mich., assignor to Borg-Warner Corporation. Stove door. 2,159,221; May 23.

Mills, Victor, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Continuous process for converting saponifiable fats into soap and glycerin. 2,159,397; May 23.

Minkow, Robert, assignor to Hobbs Sales & Service Station, Inc., New York, N. Y. Form separator mechanism. 2,159,285; May 23.

Minneapolis-Honeywell Regulator Company. (See Denison, F. S., Harrison, and Miller, assignors.)

Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)

Minneapolis-Honeywell Regulator Company. (See Miller, Wayland R., assignor.)

Minneapolis-Honeywell Regulator Company. (See Nessell, Clarence W., assignor.)

Minneapolis-Honeywell Regulator Company. (See Shipley, Sylvanus C., assignor.)

Minneapolis-Honeywell Regulator Company. (See Taylor, Daniel G., assignor.)

Mitchell, Clarence E., Victoria, British Columbia, Canada. Vacuum comb. 2,159,096; May 23.

Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Reversible belt. 2,159,857; May 23.

Molins Machine Company. (See Chalmers, J. W., assignor.)

Moncrieff, Robert W., and F. B. Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of artificial materials. 2,159,097; May 23.

Moninger, Frank M., assignor to Sportsman's Manufacturing and Distributing Company, Inc., Los Angeles, Calif. Vending machine. 2,159,905; May 23.

Monk, Albert. (See Seaman, R. H., and Monk.)

Monroe Auto Equipment Company. (See Nickelsen, John M., assignor.)

Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)

Montgomery, Charles C., and C. Johnson, Hardburly, Ky. Automatic air coupling. 2,159,906; May 23.

Montgomery, Donald H., West Hartford, and W. B. Retz, Plainville, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Stop mechanism for bar machines. 2,159,398; May 23.

Montgomery, Donald H., West Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Chucking means. 2,159,931; May 23.

Montgomery Ward & Co. (See Underwood, John A., assignor.)

Moore, Coleman B., Carroll Park, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,159,877; May 23.

Moore, Garnett V. (See Coleman, G. H., and Moore.)

Moore, William E., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa. Reduction furnace. 2,159,286; May 23.

Morey, James J., Bloomfield, N. J., assignor to H. H. Fries, doing business as Fries Bros., New York, N. Y. Combination radio receiver-hearing aid unit. 2,159,632; May 23.

Morgan, David H., assignor to Truscon Steel Company, Youngstown, Ohio. Bracing and operating means for closures. 2,159,040; May 23.

Morgan, Erving B., assignor to American Seating Company, Grand Rapids, Mich. Seat structure. 2,159,098; May 23.

Morgan, Frank, Healdton, Okla. Device for shouldering well drill pipes. 2,159,287; May 23.

Morgan, Frank, Healdton, Okla. Work centering and holding machine. 2,159,288; May 23.

Morkoski, James, Canton, Ill., assignor to International Harvester Company. Ground-working implement. 2,159,669; May 23.

Morris, James Y., Lexington, N. C. Game and apparatus therefor. 2,159,174; May 23.

Morris, Nathan, assignor to American Instrument Company, Silver Spring, Md. Portable refrigerating unit. 2,159,907; May 23.

Morris, William J., La Salle, Ill., assignor, by mesne assignments, to General Time Instruments Corporation, New York, N. Y. Vehicle signaling system. 2,159,598; May 23.

Morrison, Willard L., Lake Forest, Ill. Automobile radiator cooling apparatus. 2,159,599; May 23.

Mosel, Joseph H., assignor to The Jaeger Machine Company, Columbus, Ohio. Apparatus for building roads. 2,159,509; May 23.

Moss, Douglas G. K., Sanderstead, assignor to Mechanism Limited, Croyden, England. Gyroscopic navigation instrument. 2,159,099; May 23.

Moulded Hair Company Limited, The, et al. (See Howard, Joseph A., assignor.)

Moulthrop, Lembert H., Bridgeport, Conn. Electric soldering device. 2,159,041; May 23.

Mueller Cunradi, Martin, and R. Uloth, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of motor fuels. 2,159,175; May 23.

Muldoon, Bernard F., Mountain View, N. J., assignor to H. Hyman, Brooklyn, N. Y. Flashlight bracket and holder. 2,159,932; May 23.

Muller, Heinrich, and E. Sauer, assignors to the firm: Maschinenfabrik Moenus Aktiengesellschaft, Frankfort-on-the-Main, Germany. Lasting machine. 2,159,706; May 23.

Multipost Company. (See Dummer/E. J., and Gay, assignors.)

Munschauer, George E. (See Harwood, R. E., and Munschauer.)

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Blade magazine. 2,159,933; May 23.

Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Attaching device for bag frame fasteners. 2,159,445; May 23.

Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Knob fastener installation and fastener for the same. 2,159,446; May. 23.

Murphy, James T., Chicago, Ill. Boot and the like. 2,159,816; May 23.

Murphy, John S., San Gabriel, Calif. Combination door. 2,159,530; May 23.

Murphy, William J., Crafton, Pa. Apparatus for forming confections. 2,159,338; May 23.

Murray, D. J., Manufacturing Co. (See Preston, Everett A., assignor.)

Murray, Humphrey D., and D. A. Spencer, assignors to The Veracol Film Syndicate Limited, London, England. Production of composite photographic images. 2,159,600; May 23.

N. V. Philips' Gloeilampenfabrieken. (See de Boer, Jan Hendrik, assignor.)

N. V. Philips' Gloeilampenfabrieken. (See Jonker, J. L. H., and Gall, assignors.)

N. V. Philips' Gloeilampenfabrieken. (See Veenemans, C. F. Lopp, and Bruining, assignors.)

Naamlooze Vennootschap: Oliefabrieken "Het Hart" en "De Zwaan" Voorheen Adriaan Honig. (See Honig, Adriaan N., assignor.)

Narrow Fabric Company, The. (See Kaak, Kurt, assignor.)

National Cable & Metal Co. (See Rich, Herbert J., assignor.)

National Electric Products Corporation. (See Vollmer, Paul A., assignor.)

National Electric Screen Co. (See Lindsley, Edward A., assignor.)

National Lock Washer Company, The. (See McCrudden, Frederick R., assignor.)

National Tube Company. (See Anater, Raymond J., assignor.)

Nauert, Carl H., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerator shelf. 2,159,601; May. 23.

Negbaur, H., & Co. (See Negbaur, Harry, assignor.)

Negbaur, Harry, assignor to H. Negbaur & Co., Inc., New York, N. Y. Lighter. 2,159,769; May 23.

Neil, Wm. P., Company. (See Edison, John S., assignor.)

Neitzke, Oscar F., Belmont, assignor to Bennett Incorporated, Cambridge, Mass. Machine for mixing, homogenizing, and dispersing purposes. 2,159,670; May 23.

Nelson, David V., Chicago, Ill. Cleaning apparatus. 2,159,176; May 23.

Neracher, Carl A., Detroit, and T. Iavelli, Dearborn, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,159,339; May 23.

Nessell, Clarence W., Dayton W., Dayton, Ohio, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Filter protection. 2,159,951; May 23.

Neu, Adam. (See Coward, Ashby B., assignor.)

Neumair, Joseph A. (See Rundell, R. E., and Neumair.)

Neuman, Harry G. (See Neuman, Jacob J. and H. G.)

Neuman, Jacob J., Jamaica, and H. G. Neuman, Yorktown Heights, N. Y. Bag filling device. 2,159,858; May 23.

Nevitt, Albert R., Montreal, Quebec, Canada. Apparatus for distilling liquids. 2,159,566; May 23.

New Britain Machine Company, The. (See Montgomery, Donald H., assignor.)

New Britain Machine Company, The. (See Montgomery, D. H., and Retz, assignors.)

New Jersey Machine Corporation. (See von Hofe, George W., assignor.)

Newman, William E., Moorestown, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Indicating device. 2,159,749; May 23.

Newton, Edwin E., Montreal, Quebec, and H. P. Ray, Mount Royal, Quebec, Canada, assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for coating strands. 2,159,222; May 23.

Newton, Jack. (See Preisz, William A., assignor.)

New York Air Brake Company, The. (See Campbell, Charles A., assignor.)

Niagara Machine & Tool Works. (See Harwood, R. E., and Munschauer, assignors.)

Nickelsen, John M., Ann Arbor, assignor to Monroe Auto Equipment Company, Monroe, Mich. Valve construction. 2,159,289; May 23.

Nickelsen, John M., Ann Arbor, assignor to Monroe Auto Equipment Company, Monroe, Mich. Link or strut. 2,159,859; May 23.

Nies, Herman H., Waukegan, Ill., assignor to Johns-Manville Corporation, New York, N. Y. Vibration-damping material. 2,159,487; May 23.

Niles, Irving F., Lakewood, Ohio, assignor to The Impress Company, Inc., Rochester, N. Y. Printing method and apparatus. 2,159,447; May 23.

Nill, Edward A., Highland Park, Mich. Producing stable solutions of sulphur in mineral and other oils. 2,159,908; May 23.

Nock, Joseph A., Jr. (See Dix, E. H., Jr., and Nock.)

Norling, Albert E., et al. (See Klermund, Henry G., assignor.)

Norman, Horace M., assignor to Stewart-Warner Corporation, Chicago, Ill. Electric speedometer. 2,159,340; May 23.

North American Rayon Corporation. (See Martin, Wilhelm, assignor.)

Odell, Karl E., Fremont, assignor of forty-nine per cent to H. E. Piltz, Hesperia, Mich. Electrical connection for storage batteries. 2,159,042; May 23.

Okonite Company, The. (See Jolliffe, John J., assignor.)

Okun, Nathaniel N., Bronx, N. Y., assignor to Swank Products, Inc. Extension key chain. 2,159,223; May 23.

Old Colony Envelope Company. (See Davidson, P. B., and Adams, assignors.)

Olson, Albert J., Niles, Ill. Agricultural implement. 2,159,448; May 23.

Ormond, John J., assignor to Art-O-Graphic Printing Company, Inc., Boston, Mass. Envelope. 2,159,957; May 23.

Orr, John B, Jr., Edgeworth, Pa. Handling and working metal members. 2,158,043; May 23.

Orre, Bernt V., Stocksund, near Stockholm, Sweden. Teat element for milking machines. 2,159,449; May 23.

Osborne, Elmer L., (Granddaddy), assignor to Eco Motor Works, Inc., Detroit, Mich. Convertible internal combustion liquid fuel motor or engine. 2,159,224; May 23.

Otto-Wilputte Ovenbouw Mij. (Otto-Wilputte Oven Construction Co.) N. V. (See Philipsen, Nikolaus M., assignor.)

Owen, James E., Asheville, N. C. Trailer construction. 2,159,671; May 23.

Owens-Corning Fiberglas Corporation. (See Johnson, Cecil F., assignor.)

Owens-Corning Fiberglas Corporation. (See Saborsky, Arthur D., assignor.)

Owens-Illinois Glass Company. (See Atkinson, F. W., Kleist, Slayter, Thomas, and Lannan, assignors.)

Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Store front construction. 2,159,673; May 23.

Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass rack. 2,159,672; May 23.

Ozark Chemical Company. (See Doennecke, H. W., Douglass, and Anderson, assignors.)
P A G Patentgesellschaft A. G. (See Uber, Edmond, assignor.)
Palley, John, Farmington, Ill. Shoe heel. 2,159,943; May 23.
Palmer-Edwards Company. (See Pruit, Harvey E., assignor.)
Palmer, Robert T. (See Sewell, H. R., and Palmer.)
Papadakis, Simeon. (See Beauvais, Marcelle, assignor.)
Paramount Productions, Inc. (See Mellor, L. L., and Zaugg, assignors.)
Parcell, John, New York, N. Y. Frozen cream machine. 2,159,450; May 23.
Parkinson, John S., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Perforated membrane. 2,159,488; May 23.
Parsons, James E., et al. (See Delk, Edward M., assignor.)
Patent Button Company, The. (See Anderson, Thomas A., assignor.)
Paterson, David, Lindsay, Ontario, Canada. Brake beam strut. 2,159,100; May 23.
Paterson, John C., Peterborough, England, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Feeding dough and like material to sheeting and like machines. 2,159,044; May 23.
Patterson, Gordon D. (See Sloan, C. K., and Patterson.)
Patzer, William. (See Tratsch, W. A., and Patzer.)
Paul, Thorolf. (See Le Fevre, A. W., Paul, and Coxon.)
Paul, Thorolf, assignor to Stewart-Warner Corporation, Chicago, Ill. Electrical speedometer. 2,159,341; May 23.
Paulsen, Thomas R., and H. C. Beitzel, assignors to Bucyrus-Erie Company, South Milwaukee, Wis. Wheeled scraper. 2,159,045; May 23.
Pauser, Karl. (See Jochum, K., Geier, and Pauser.)
Pavlish, Arnold E., and J. D. Sullivan, assignors to Battelle Memorial Institute, Columbus, Ohio. Coating copper or its alloys with tin. 2,159,510; May 23.
Paxton, Gerald C. (See Paxton, Hale and G. C.)
Paxton, Hale and G. C., Santa Ana, Calif., assignors, by mesne assignments, to Food Machinery Corporation. Method of and apparatus for removing free water adhering to the outer surfaces of whole fresh fruit. 2,159,046; May 23.
Paxton, Hale and G. C., Santa Ana, assignors to Food Machinery Corporation, San Jose, Calif. Method of and apparatus for removing surface moisture from rollable fresh whole fruit. 2,159,047; May 23.
Peco Manufacturing Corporation. (See Errig, W. F., and De Hart, assignors.)
Penkala, Emil, assignor to Metal Trim Limited, London, England. Rollers for use in producing profiled sections from sheet metal. 2,159,290; May 23.
Pennsylvania Petroleum Research Corporation. (See McCluer, W. B., and Fenske, assignors.)
Pennsylvania Railroad Company, The. (See Madden, William J., assignor.)
Pennsylvania Salt Manufacturing Company. (See Davies, Richard L., assignor.)
People of the United States, Dedicated to the free use of the. (See McSwain, Claude W.)
People of the United States, Dedicated to the free use of the. (See Powell, Ben F.)
People of the United States of America, Dedicated to the free use of the. (See Dearborn, Frederick E.)
Persons, Lawrence M., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo. Compensated switch. 2,159,342; May 23.
Petersen, Elmer A., Fruitvale, Calif. Glue applying machine. 2,159,674; May 23.
Petersen, Samuel H., Philadelphia, Pa. Post for tennis nets. 2,159,633; May 23.
Peterson, Floyd C. (See Bass, S. L., Fenn, and Peterson.)
Peterson, Floyd C., Syracuse, N. Y., and H. N. Fenn, assignors to The Dow Chemical Company, Midland, Mich. Stabilization of cellulose ethers. 2,159,399; May 23.
Petroleum Rectifying Company of California. (See Wolfe, Hailey, assignor.)
Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company. Tip welding method. 2,159,707; May 23.
Pfanstiehl Chemical Company. (See Pfanstiehl, Carl, assignor.)
Pfeil, Leonard B., Edgbaston, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y. Improving the workability of nickel and nickel alloys. 2,159,048; May 23.
Phelps, Alva W., and W. A. Kull, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Steering gear. 2,159,225; May 23.
Philco Radio and Television Corporation. (See Bauer, B., and Albright, assignors.)
Philipsen, Nikolaus M., Tokyo, Japan, assignor to Otto-Wilputte Ovenbouw Mij. (Otto-Wilputte Oven Construction Co.) N. V., The Hague, Netherlands. Underfired coke oven. 2,159,359; May 23.
Phillips, Albert J. (See Betterton, J. O., Phillips, and Smith.)
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Pier, Mathias, Heidelberg, and W. Simon and P. Jacob, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Carrying out catalytic reactions. 2,159,511; May 23.
Pierce, Frank H., assignor of seventy per cent to S. E. Witt, New York, N. Y. Toy. 2,159,817; May 23.
Pierce, John B., Foundation. (See Groeniger, William C., assignor.)
Piltz, Henry E. (See Odell, Karl E., assignor.)
Pinell, Walter, Falkensee, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 2,159,101; May 23.
Pitt, Ralph T., Quincy, assignor to Abrasive Products, Inc., Boston, Mass. Package of abrasive strips. 2,159,634; May 23.
Pittsburgh Plate Glass Company. (See Fusca, Emil A., assignor.)
Pittsburgh Plate Glass Company. (See Haux, E. H., and Fix, assignors.)
Pittsburgh Plate Glass Company. (See Knudsen, Percy E., assignor.)
Pittsburgh Plate Glass Company. (See Lytle, William O., assignor.)
Pittsburgh Plate Glass Company. (See McLeod, J. D., and Reynolds, assignors.)
Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
Pittsburgh Research Corporation. (See Moore, William E., assignor.)
Plaistowe, Donald L., and D. J. Fewings, Chelmsford, England, assignors to Radio Corporation of America. Oscillator. 2,159,818; May 23.
Platt, Stephen A., Decatur, Ill. Electric corn popper. 2,159,489; May 23.
Platt, Stephen A., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Utensil handle. 2,159,728; May 23.
Platz, Henry T., assignor to Briggs Manufacturing Company, Detroit, Mich. Welding equipment. 2,159,860; May 23.
Plax Corporation. (See Kopitke, William H., assignor.)
Ploke, Martin, assignor to Zeiss Ikon Atkiengesellschaft, Dresden, Germany. Picture-translating tube. 2,159,568; May 23.
Polhamus, William G. (See Arnold, R. H., Polhamus, and Somervell.)
Polin, Herbert S., Sands Point, N. Y. Liquid content indicator. 2,159,531; May 23.
Poock, Louis F. (See Markwick, F. H., and Poock.)
Poock, Louis F., and W. F. Aller, assignors to The Sheffield Gage Corporation, Dayton, Ohio. Gauging apparatus. 2,159,343; May 23.
Pool, William, Spondon, near Derby, England, assignor to Celanese Corporation of America. Winding machinery for yarns, threads, ribbons, and the like. 2,159,102; May 23.
Porcelain Products, Inc. (See Meyer, Edwin M., assignor.)
Poteet, Albert J., Lakeland, Fla. Closure operator. 2,159,861; May 23.
Powell, Ben F., Custer, S. Dak., dedicated to the free use of The People of the United States. Prevention of seepage of water. 2,159,954; May 23.
Power Patents Company. (See Corrough, Hugh M., assignor.)
Power Regulator Company, The. (See Snediker, Morton O., assignor.)
Prance, Alvin W., Pleasant Ridge, assignor to Briggs Manufacturing Company, Detroit, Mich. Pillar-light assembly. 2,159,532; May 23.
Preisz, William A., Yakima, assignor of fifty per cent to J. Newton, Seattle, Wash. Vanity case. 2,159,934; May 23.
Preston, Everett A., assignor to D. J. Murray Manufacturing Co., Wausau, Wis. Spraying apparatus. 2,159,400; May 23.
Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic control system. 2,159,567; May 23.
Price, Charles W., Sweetwater, Tenn. Disintegration of barytes ores. 2,159,909; May 23.
Procter & Gamble Company, The. (See Mills, Victor, assignor.)
Proetto, Giuseppe, Philadelphia, Pa. Insecticide. 2,159,953; May 23.
Prost, Hans. (See Buschbeck, W., and Prost.)
Pruitt, Harvey E., assignor to Palmer-Edwards Company, Flint, Mich. Single spindle nut tapping machine. 2,159,708; May 23.
Pulaski, Edward. (See Spiner, C. B., and Pulaski.)
Pullen, Rodney S., Akron, Ohio. Match packet. 2,159,103; May 23.
Pure Oil Company, The. (See Maschwitz, Percy A., assignor.)
Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
Quamma, Martin, San Diego, Calif. Can aligning means. 2,159,049; May 23.
Quamma, Martin, San Diego, Calif. Tall can aligning device. 2,159,050; May 23.
Quetin, Georgina A., San Jose, Calif. Clasp. 2,159,709; May 23.

Quinn, Nelson J., Toledo, assignor of one-half to H. B. Fay, Shaker Heights, Ohio. Sand blasting apparatus. 2,159,051; May 23.
Quintal, Manuel, assignor of one-third to E. Tong and one-third to S. Den Ho, Honolulu, Hawaii. Permutation padlock. 2,159,291; May 23.
Quirk, Justin P., St. Louis County, assignor to United Wood Heel Company, St. Louis, Mo. Shank stiffener. 2,159,602; May 23.
Rab, Karl, and K. Walter, Vienna, Germany. Decorative covering for flowerpots. 2,159,302; May 23.
Radio Corporation of America. (See Chittick, Kenneth A., assignor.)
Radio Corporation of America. (See Conklin, J. W., and Serrell, assignors.)
Radio Corporation of America. (See Grundmann, Gustave L., assignor.)
Radio Corporation of America. (See Hawk, Henry W. N., assignor.)
Radio Corporation of America. (See Kimball, C. N., and Wilby, assignors.)
Radio Corporation of America. (See Newman, William E., assignor.)
Radio Corporation of America. (See Plaistowe, D. L., and Fewings, assignors.)
Radio Corporation of America. (See Reid, John D., assignor.)
Radio Corporation of America. (See Riddle, James M., Jr., assignor.)
Radio Corporation of America. (See Roberts, Walter V., assignor.)
Radio Corporation of America. (See Seeley, Stuart W., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Radio Corporation of America. (See Zworykin, Vladimir K., assignor.)
Radio Corporation of America. (See Zworykin, V. K., and Malter, assignors.)
Ramsay, William A., Honolulu, Hawaii. Fluid dispensing device. 2,159,490; May 23.
Ranney, Percival K., Lakewood, Ohio. Coil winding apparatus. 2,159,635; May 23.
Rapids Equipment Co. Inc. (See Ribble, Harry W., assignor.)
Ratowski, Thomas A., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company. Excavating implement tooth. 2,159,104; May 23.
Ray, Hugh P. (See Newton, E. E., and Ray.)
Rayment, Lyndon C., Oakland, Calif. Recording system. 2,159,533; May 23.
Rayolite Rifle Range Company. (See Falkenberg, William P., assignor.)
Reconstruction Finance Corporation. (See Kennedy, Joseph E., assignor.)
Rector, Laurence L., Fort Worth, Tex. Casing head. 2,159,401; May 23.
Reichert, Ellsworth, Baltimore County, assignor, by mesne assignments, to Liberty Optical Company, Inc., Baltimore, Md. Sunglass attachment for eyeglasses. 2,159,710; May 23.
Reid, Albert R., assignor to USL Battery Corporation, Niagara Falls, N. Y. Electric storage battery plate and treating such plate. 2,159,226; May 23.
Reid, John D., Philadelphia, Pa., assignor to Radio Corporation of America. Oscillator for multiple wave band receivers. 2,159,105; May 23.
Reiffert, Emma L. and E. A., Chicago, Ill. Powder puff. 2,159,227; May 23.
Reiffert, Ernst A. (See Reiffert, Emma L., and E. A.)
Reis, Curt F., Chicago, Ill. Drop-forged rotor. 2,159,820; May 23.
Remington Arms Company. (See Loomis, Crawford C., assignor.)
Remington Rand Inc. (See Wolters, Carl F., assignor.)
Remler Company Ltd. (See Danielson, Ernest G., assignor.)
Republic Steel Corporation. (See Kahn, J., and Schulz, assignors.)
Republic Steel Corporation. (See Lynch, John S., assignor.)
Republic Steel Corporation. (See Schaefer, F. R., and Emery, assignors.)
Retschy, Curt, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Piston. 2,159,402; May 23.
Retz, William B. (See Montgomery, D. H., and Retz.)
Reynolds Corporation. (See Livar, Allen P., assignor.)
Reynolds, George L. (See Kishline, F. F., and Reynolds.)
Reynolds, Harry A. (See McLeod, J. D., and Reynolds.)
Reynolds, Joseph H., et al. (See Beckler, Oakley K., assignor.)
Ribble, Harry W., Niles Center, Ill., assignor, by mesne assignments, to Rapids Equipment Co. Inc., Cedar Rapids, Iowa. Beverage cooling and dispensing apparatus and method. 2,159,729; May 23.
Ricardo, Harry R., London, England. Fuel injection pump for internal combustion engines. 2,159,177; May 23.
Rich, Herbert J., assignor to National Cable & Metal Co., Glendale, Calif. Battery terminal connector. 2,159,512; May 23.
Richards, Ralph N., assignor to Indiana Fibre Products Company, Marion, Ind. Chick box. 2,159,451; May 23.
Richter, George A., assignor to Brown Company, Berlin, N. H. Paper for nitration. 2,159,675; May 23.
Richter, George A., and H. P. Vannah, assignors to Brown Company, Berlin, N. H. Producing viscose. 2,159,676; May 23.
Richter, Henry G., Westfield, N. J. Apparatus for adjusting resistors. 2,159,106; May 23.
Riddle, James M., Jr., West Collingswood, N. J., assignor to Radio Corporation of America. Volume control system. 2,159,052; May 23.
Rike, Frederick F., and H. W. Webb, assignors to Buckeye Iron & Brass Works, Dayton, Ohio. Tank cap and vent valve. 2,159,178; May 23.
Ringgenberg, Edward A., Lytton, Iowa. Pumping apparatus. 2,159,179; May 23.
Ritter, Gerhard. (See Eckell, J., and Ritter.)
Rivard, Joseph, Montauban-les-Mines, Quebec, assignor of one-half to A. Gravel, Quebec, Quebec, Canada. Adjustable door. 2,159,403; May 23.
Robert, Augusta E., Oakland, Calif. Signal light. 2,159,636; May 23.
Roberts, Martin J. (See Freeman, R. D., and Roberts.)
Roberts, Walter V., Bronxville, N. Y., assignor to Radio Corporation of America. Coupling arrangement for amplifiers and repeaters. 2,159,944; May 23.
Robeson Process Company. (See Wallace, Frederick J., assignor.)
Robinson, Harold C., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Stock-quotation system. 2,159,107; May 23.
Roché, Jean A. (See Taylor, J. G., Roché, and Spevacek.)
Rock-Ola Manufacturing Corporation. (See Smyth, Paul H., Jr., assignor.)
Rogers, Charles C., Jr. (See Blair, C. M., Jr., and Rogers.)
Rogers, Ida L., New York, N. Y. Folding furniture. 2,159,228; May 23.
Röhm & Haas Company. (See Hester, William F., assignor.)
Roll, Eugene A., et al. (See Sachs, Erich, assignor.)
Rosco Manufacturing Company. (See Cederstrom, Harold A., assignor.)
Rose, Alexander, New York, N. Y. Musical instrument. 2,159,491; May 23.
Rossomando, Antony. (See Chieffo, R., and Rossomando.)
Rotchford, John G., trustee. (See Aumack, Frank L., assignor.)
Rowe, Hobart E., Schenectady, N. Y., assignor to General Electric Company. Starting electrode for pool tubes. 2,159,770; May 23.
Rowe Manufacturing Co. (See Rowe, W. H., and Gabrielson, assignors.)
Rowe, Marion H., et al. (See Beckler, Oakley K., assignor.)
Rowe, William H., Detroit, Mich., and C. Gabrielson, Belleville, N. J., assignors to Rowe Manufacturing Co., Inc., New York, N. Y. Coin vending machine. 2,159,603; May 23.
Royden, George T., Palo Alto, assignor to Mackay Radio & Telegraph Company, San Francisco, Calif. Antenna system. 2,159,637; May 23.
Royle, Edwin B., assignor to The Eimco Corporation, Salt Lake City, Utah. Loading machine. 2,159,180; May 23.
Rubenstein, Leon, Saltcoats, and W. Taylor, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of fuze heads for electrical firing. 2,159,229; May 23.
Rudnick, Nathan, assignor of one-half to M. Frankel, New Haven, Conn. Mixing device. 2,159,711; May 23.
Rundall, Rupert E., Rockville Centre, and J. A. Neumair, Hollis, N. Y., assignors to International Cigar Machinery Company. Tobacco leaf feed. 2,159,404; May 23.
Runner, Joseph E., Indianapolis, Ind. Water drain for journal cellars. 2,159,750; May 23.
Ruska, Ernst. (See Brauer, G., and Ruska.)
Ruska, Ernst. (See Langenwalter, H-W., and Ruska.)
Ruska, Ernst, Berlin-Zehelndorf, assignor to the firm Fernseh Aktiengesellschaft, Zehlendorf near Berlin, Germany. Cathode ray focusing coil. 2,159,534; May 23.
Ruzicka, Leopold, Zurich, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Δ4,5-unsaturated androstene compound and making same. 2,159,569; May 23.
Ryder, John D., Cleveland, Ohio, assignor to Bailey Meter Company. Electric control system. 2,159,181; May 23.
Saborsky, Arthur D., Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Insulating bat. 2,159,053; May 23.
Sachs, Erich, Berlin, Germany, assignor to E. A. Roll and H. T. Lukow, New York, N. Y. Device for mixing playing cards or the like. 2,159,958; May 23.
Sage, Kenneth B., Central Lake, Mich. Fish lure. 2,159,230; May 23.
Sahlmann, Harry C., Fairfield, Ala. Structural member. 2,159,182; May 23.
Salo, Martti. (See Fordyce, C. R., and Salo.)
Salzer Freres, Societe Anonyme. (See Wälti, Heinrich, assignor.)
Samarns, Stephen, Oakland, Calif. Faucet. 2,159,452; May 23.
Sandberg, Ray A. (See Jandus, H. S., and Sandberg.)

Sandberg, Ray A., and E. J. Van Sickel, Waukegan, Ill., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Friction type brake lever. 2,159,821; May 23.

Sanders, Philip H. (See Scogland, C. A., and Sanders.)

Sanders, Vernon H., assignor to Stackpole Carbon Company, St. Marys, Pa. Brake lining. 2,159,935; May 23.

Sanford, Hugh W., Knoxville, Tenn. Dump bottom car. 2,159,292; May 23.

Sanford, Robert V., Hartford, assignor to The Stanley Works, New Britain, Conn. Method and means for loading and transporting merchandise. 2,159,622; May 23.

Sauer, Ernst. (See Muller, H., and Sauer.)

Saul, George N., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,159,751; May 23.

Scales, Walter H., New Orleans, La., assignor, by mesne assignments, to Timber Engineering Company, Washington, D. C. Lever for use as a walking beam or the like. 2,159,955; May 23.

Schaefer, Frederick R., Youngstown, and R. W. Emery, Warren, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Barrel ring. 2,159,862; May 23.

Schaeffer, Edward G., Brooklyn, assignor to American Character Doll Co., Inc., New York, N. Y. Doll. 2,159,293; May 23.

Schenley Distillers Corporation. (See Carter, Sidney T., assignor.)

Schiff, Ludwig, Berlin-Lichterfelde, assignor to the firm Fernseh A.-G., Berlin-Zehlendorf, Germany. Electron ray tube. 2,159,712; May 23.

Schilling, Otto, assignor to Daimlerbenz Aktiengesellschaft Stuttgart-Unterturkheim, Germany. Engine governor. 2,159,863; May 23.

Schimanck, Emil, Muegyetem, Budapest, Hungary. Carburetor. 2,159,294; May 23.

Schlecht, Leo, Ludwigshafen-on-the-Rhine, and W. Schubardt, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing nickel alloy articles. 2,159,231; May 23.

Schlecht, Leo, Ludwigshafen-on-the-Rhine, and W. Schubardt, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Metallic article. 2,159,604; May 23.

Schlichenmaier, Hans. (See Kränzlein, G., Schlichenmaier, and Meissner.)

Schlicht, Carl R., La Crosse, Wis. Sheet metal flanging apparatus. 2,159,771; May 23.

Schley, Jack A., et al. (See Beckler, Oakley K., assignor.)

Schmidt, George S., York, Pa., assignor to American Chain & Cable Company, Inc., New York, N. Y. Tire chain. 2,159,831; May 23.

Schmidt, Maria. (See Schmidt, Theodor, assignor.)

Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Dropper for carcasses and the like. 2,159,623; May 23.

Schmidt, Theodor, assignor to M. Schmidt, geb. Salm, Berlin, Germany. Chord engaging device for musical instruments. 2,159,677; May 23.

Schneider, Wilhelm. (See Wilmanns, G., Schneider, and Kethur.)

Schrader, Hans. (See Houdremont, E., and Schrader.)

Schroedter, Edmund, Baldwin, N. Y. Throttle control. 2,159,772; May 23.

Schubardt, Walter. (See Schlecht, L., and Schubardt.)

Schubert, Homer M., Salem, Oreg. Speed limiting device. 2,159,405; May 23.

Schulman, Albert, Philadelphia, Pa. Bedspring cover. 2,159,535; May 23.

Schultz, Alfred, and L. Atkin, New York, and C. N. Frey, Scarsdale, assignors to Standard Brands, Incorporated, New York, N. Y. Preparation of an enzymic material. 2,159,678; May 23.

Schulz, Walter F. (See Kahn, J., and Schulz.)

Schumacher, Willy, and P. Heimke, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Monoarylides of aromatic dicarboxylic acid halides. 2,159,605; May 23.

Schur, Milton O., assignor to Brown Company, Berlin, N. H. Manufacture of molded, waterlaid fiber articles. 2,159,638; May 23.

Schur, Milton O., assignor to Brown Company, Berlin, N. H. Artificial leather manufacture. 2,159,639; May 23.

Schwebs, Kent, Hortonville, Wis. Temperature control. 2,159,406; May 23.

Scogland, Charles A., and P. H. Sanders, assignors to South Bend Bait Company, South Bend, Ind. Fish bait. 2,159,606; May 23.

Scovill Manufacturing Company. (See Tobler, John H., assignor.)

Seeley, Stuart W., Bayside, Long Island, N. Y., assignor to Radio Corporation of America. Automatic noise limiter circuit. 2,159,822; May 23.

Seaman, Richard H., and A. Monk, Los Angeles, Calif. Atomizer. 2,159,407; May 23.

Searle, Clarence C., Maricopa, Calif. Centrifugal separator and wringer. 2,159,536; May 23.

Sears, Roebuck and Co. (See Bamberger, Glenn R., assignor.)

Segelin, David and S., Rochester, N. Y. Sewing machine attachment for fixing a permanent crease in garments. 2,159,713; May 23.

Segelin, Solomon. (See Segelin, David and S.)

Seifert, Charles H., Hempstead, N. Y. Tooth brush. 2,159,295; May 23.

Seliger, Hellmuth, O. Bretschneider, B. Hubald, W. Krüger, and G. Truglitzka, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation. Apparatus for the thermal production of volatilizable metals, particularly of magnesium. 2,159,910; May 23.

Sem, Mathias O., assignor to Det norske Aktieselskab for Electrokemisk Industri, Oslo, Norway. Self-baking electrode. 2,159,183; May 23.

Senauke, Alexander, New York, assignor to King Manufacturing Corporation, Buffalo, N. Y. Dual action volume control. 2,159,453; May 23.

Serclron, Marcel, Dourdan, France. Manufacture of copper acetoarsenite or Schweinfurt green. 2,159,864; May 23.

Serog, Leopold, Bielsko, Poland. Tube. 2,159,714; May 23.

Serrell, Robert. (See Conklin, J. W., and Serrell.)

Servel, Inc. (See Nauert, Carl H., assignor.)

Servo-Frein Dewandre Société Anonyme. (See Dewandre, Albert, assignor.)

Sewell, Henry R., Jamaica Plain, and R. T. Palmer, Sharon, assignors, by mesne assignments, to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system utilizing refrigeration. 2,159,570; May 23.

Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Pressure fluid motor. 2,159,232; May 23.

Sharp, George G., Wyoming, Millburn Township, Essex County, N. J. Top member for self-contained wall structures. 2,159,296; May 23.

Sharp, John H. (See Anderson, Harley E., assignor.)

Shaw, Ernest W., assignor to The France Foundry & Machine Co., Toledo, Ohio. Curb inlet. 2,159,752; May 23.

Shaw, Harry F. (See Kling, F. E., and Shaw.)

Sheffield Gage Corporation, The. (See Markwick, Frederick H., assignor.)

Sheffield Gage Corporation, The. (See Markwick, F. H., and Poock, assignors.)

Sheffield Gage Corporation, The. (See Poock, L. F., and Aller, assignors.)

Shell Development Company. (See Allum, Arthur E., Jr.)

Shell Development Company. (See van Dijck, Willem J. D., assignor.)

Shell Development Company. (See Waterman, H. I., and van Vlodrop, assignors.)

Sherrill, Ted I., Darby, Mont. Cable casing cutter. 2,159,715; May 23.

Shimwell, Derrick W. (See Shimwell, Oliver and D. W.)

Shimwell, Oliver and D. W., Styles, Shiplake on Thames, England. Beat-up mechanism of looms for weaving. 2,159,865; May 23.

Shipley, Sylvanus C., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Valve system. 2,159,624; May 23.

Shoup, Charles E., Quincy, Ill. License plate fastener. 2,159,454; May 23.

Shover, Barton R., assignor to Strip Tin Plate Company, Pittsburgh, Pa. Apparatus for coating metal. 2,159,297; May 23.

Shuron Optical Company. (See Long, Eli M., assignor.)

Siegel, Joseph, New York, N. Y. Coat. 2,159,408; May 23.

Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Fischer, Franz, assignor.)

Siemens & Halske Aktiengesellschaft. (See Freystedt, E., and Bath, assignors.)

Siemens & Halske Aktiengesellschaft. (See Pinell, Walter, assignor.)

Signal Engineering & Manufacturing Company. (See Wheelock, John H., assignor.)

Sigoda, Victor J., Brooklyn, assignor to Man-Sew Pinking Attachment Corp., New York, N. Y. Pinking machine. 2,159,716; May 23.

Sigoda, Victor J., assignor to Man-Sew Pinking Attachment Corp., New York, N. Y. Pinking machine. 2,159,717; May 23.

Silver, Benjamin J., New York, N. Y. Metatarsal cushion. 2,159,054; May 23.

Simmonds Development Corporation Limited. (See Simmonds, Oliver E., assignor.)

Simmonds, Oliver E., assignor to Simmonds Development Corporation Limited, London, England. Bolt and like externally screw-threaded members. 2,159,866; May 23.

Simon, Walter. (See Pier, M., Simon, and Jacob.)

Simplex Valve and Meter Company. (See Borden, Moro M., assignor.)

Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Making a wheel. 2,159,911; May 23.

Sipp-Eastwood Corporation. (See Kent, Frederick J., assignor.)

Sittler, Edwin C. (See Kettering, C. F., and Sittler.)

Skrzynski, Stanley M., assignor to Cranford Company, Brooklyn, N. Y. Concrete mixer. 2,159,184; May 23.

Slack, Frederic W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Motor vehicle. 2,159,344; May 23.

Slayter, Games. (See Atkinson, F. W., Kleist, Slayter, Thomas, and Lannan.)

Sloan, Clifford K., and G. D. Patterson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigment treatment process. 2,159,055; May 23.

Sloan Valve Company. (See Sloan, William E., assignor.)

Sloan, William E., assignor to Sloan Valve Company, Chicago, Ill. Vacuum breaker. 2,159,056; May 23.

Smidth, F. L., & Company. (See Vogel-Jorgensen, Mikael, assignor.)

Smith, Albert A., Jr. (See Betterton, J. O., Phillips, and Smith.)

Smith, Edward P., South Charleston, W. Va. Tube joint tool. 2,159,185; May 23.

Smith, Howard A., assignor to Knapp-Monarch Company, St. Louis, Mo. Handle construction for sadirons and the like. 2,159,455; May 23.

Smith, Rolf M., assignor to General Motors Corporation, Dayton, Ohio. Rotary compressor for refrigerating apparatus. 2,159,936; May 23.

Smith, William L., Jr. (See Lawson, R. H., and Smith.)

Smyth, Paul H., Jr., Evanston, assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph. 2,159,832; May 23.

Smyth, Paul H., Jr., Evanston, assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph. 2,159,833; May 23.

Smyth, Paul H., Jr., Evanston, assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph. 2,159,834; May 23.

Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Thermostatic water mixer. 2,159,819; May 23.

Snelling, Nicholas, Jackson Heights, Long Island, N. Y. Flexed-back merchandise display. 2,159,679; May 23.

Snelling, Nicholas, Jackson Heights, Long Island, N. Y. Device for supporting and displaying merchandise. 2,159,823; May 23.

Societe Anonyme Adolphe Saurer. (See Wiget, Georg, assignor.)

"Société Anonyme Solex". (See Mennesson, Marcel, assignor.)

Society of Chemical Industry in Basle. (See Apotheker, C., Hartmann, and Merz, assignors.)

Society of Chemical Industry in Basle. (See Ruzicka, Leopold, assignor.)

Solvay Process Company. (See Kingelhoefer, William C., Jr., assignor.)

Somervell, Howard. (See Arnold, R. H., Polhamus, and Somervell.)

South Bend Bait Company. (See Leusch, V. W., and Gibson, assignors.)

South Bend Bait Company. (See Scogland, C. A., and Sanders, assignors.)

Southern Textile Machinery Company. (See De Spain, Thomas H., assignor.)

Spaeth, Charles P. (See Lawson, W. E., and Spaeth.)

Spanner, Hans J., Berlin-Kladow, Germany. Discharge device. 2,159,824; May 23.

Spaunburg, Harvey L., Bristol, and E. Wild and O. Wild, Jr., Hartford, Conn., assignors, by mesne assignments, to The Wayne Pump Company, Fort Wayne, Ind. Liquid dispensing apparatus. 2,159,109; May 23.

Spector, Samuel. (See Leonardo, John J., assignor.)

Speer Carbon Company. (See Zitzler, John A., assignor.)

Spencer, Douglas A. (See Murray, H. D., and Spencer.)

Sperry Gyroscope Company. (See House, Frank R., assignor.)

Spevacek, Otto F. (See Taylor, J. G., Roché, and Spevacek.)

Spiess, Georg, Leipzig, Germany. Automatic sheet feeding device. 2,159,456; May 23.

Spiner, Charles B., and E. Pulaski, Houston, Tex. Bait receptacle. 2,159,718; May 23.

Sportsman's Manufacturing and Distributing Company. (See Moninger, Frank M., assignor.)

Sproul, Donald F., Chicago, Ill., assignor to Cardwell-Westinghouse Company. Draft gear. 2,159,457; May 23.

Squire, Harold A. and P. J. A., New Invention, near Wolverhampton; said P. J. A. Squire assignor to M. H. Greenman, London, England. Eyelash curler. 2,159,912; May 23.

Squire, Percy J. A. (See Squire, Harold A. and P. J. A.)

Stack, Elmer S., Arlington, Mass. Water heater. 2,159,571; May 23.

Stackpole Carbon Company. (See Sanders, Vernon H., assignor.)

Standard Brands Incorporated. (See Schultz, A., Atkin, and Frey, assignors.)

Standard-I. G. Company. (See Pier, M., Simon, and Jacob, assignors.)

Standard Oil Company. (See MacLaren, Frederick H., assignor.)

Standard Oil Company. (See McNulty, G. M., and Adams, assignors.)

Stanley Works, The. (See Sanford, Robert V., assignor.)

Stannard, Jay, Troy, N. Y. Portable display rack. 2,159,233; May 23.

Stansbury, Carroll, Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for circuit interrupters. 2,159,298; May 23.

Starr, Oscar L., Mission San Jose, and G. W. Lewis, assignors to Caterpillar Tractor Co., San Leandro, Calif. Fuel injection mechanism. 2,159,360; May 23.

Starr, Paul F., New Bethlehem, Pa. Lingerie pin. 2,159,572; May 23.

States Company, The. (See Blakeslee, Henry J., assignor.)

Staudt, Ambrose W., Kenmore, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic material and preparing same. 2,159,108; May 23.

Steatit-Verkaufsgesellschaft A. G. (Steatite Trading Ltd.), Basel, Switzerland. (See Isler, Ernst, assignor.)

Steel Stamping Company, The. (See Bregman, Harry, assignor.)

Steimel, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Receiver noise quieting circuits. 2,159,753; May 23.

Sterrett, Charles C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Hydrogen-cooled machine with gland seals. 2,159,057; May 23.

Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Dust guard. 2,159,825; May 23.

Stevens, Sydney A., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Electrical rectifier installation. 2,159,537; May 23.

Stewart-Warner Corporation. (See Kelly, Edward G., assignor.)

Stewart-Warner Corporation. (See Le Fevre, A. W., Paul, and Coxon, assignors.)

Stewart-Warner Corporation. (See Le Fevre, A. R., Farr, Coxon, and Whitted, assignors.)

Stewart-Warner Corporation. (See Norman, Horace M., assignor.)

Stewart-Warner Corporation. (See Paul, Thorolf, assignor.)

Stickel, Charles W. (See Tuttle, W. R., and Stickel.)

Stoddard, Hugh W., Dallas, Tex. Reflecting marker. 2,159,458; May 23.

Streb, Robert J. (See Chappell, R. R., Colt, and Streb.)

Strip Tin Plate Company. (See Shover, Barton R., assignor.)

Strobel, Roy E., Bakersfield, assignor of one-half to E. Hurst, and one-half to Bank of America National Trust and Savings Association, executor of the estate of F. Hurst, deceased, Ventura, Calif. Boiler feed apparatus. 2,159,345; May 23.

Strom, Carl E., South Gate, Calif. Deep well cementing device. 2,159,640; May 23.

Sturtevant, B. F., Company. (See Lawless, Albert J., assignor.)

Sturtevant, B. F., Company. (See Sewell, H. R., and Palmer, assignors.)

Sullivan, John D. (See Pavlish, A. E., and Sullivan.)

Sullivan Machinery Company. (See Wineman, Wade H., assignor.)

Sulzer Frères, Société Anonyme. (See Retschy Curt, assignor.)

Sun Shipbuilding & Dry Dock Company. (See Barraja-Frauenfelder, Joseph, assignor.)

Swank Products, Inc. (See Okun, Nathaniel N., assignor.)

Swarr, Jay N., Detroit, Mich., assignor to The Bristol Company, Waterbury, Conn. Automatic control for thermal systems having heat exchangers. 2,159,110; May 23.

Swearinger, Walter W., Newport, Ark. Floating plow. 2,159,867; May 23.

Sylvania Industrial Corporation. (See Weingand, R., and Acker, assignor.)

Syrovy, Augustin J. (See Dunn, W. T., Syrovy, and Bucy.)

Tagliabue, Charles J., Mfg. Co. (See Erbguth, Paul F. K., assignor.)

Talalay, Josef A., et al. (See Howard, Joseph A., assignor.)

Tanzmann, Martin, New York, N. Y. Trimmer for asparagus stalks. 2,159,299; May 23.

Tark, Marcus B., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Scum collector. 2,159,409; May 23.

Tashjian, Armen H., Cleveland, assignor, by mesne assignments, to W. B. Miller, Lakewood, Ohio. Insulating structural board. 2,159,300; May 23.

Taylor, Arnold N., and N. P. Worden, assignors to C. M. Hall Lamp Company, Detroit, Mich. Lighting unit mounting. 2,159,868; May 23.

Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,159,513; May 23.

Taylor, James G., San Rafael, Calif., and J. A. Roche and O. F. Spevacek, Dayton, Ohio. Landing gear for amphibian airplanes. 2,159,058; May 23.

Taylor, James, Saltcoats, Ayrshire, Scotland, assignor to Imperial Chemical Industries Limited. Gas-producing nondetonating composition. 2,159,234; May 23.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, W., and Prost, assignors.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Geiger, Max, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Gerhard, Ernst, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Klotz, Ernst, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Liebich, Georg, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Steimel, Karl, assignor.)
Tenney, Dwight, Verona, N. J. Ventilating unit. 2,159,913; May 23.
Terrel, Dennis T., Oklahoma City, Okla. Extractor for tightly packaged articles. 2,159,459; May 23.
Thacker, William J., Pittsfield, Mass., assignor to General Electric Company. Electric capacitor. 2,159,826; May 23.
Thermo-Mix, Inc. (See Brush, Walter H., assignor.)
Thomas, John H. (See Atkinson, F. W., Kleist, Slayter, Thomas, and Lannan.)
Thomas, Laurence H., Birmingham, and F. Kuhn, assignors to American Electrical Heater Company, Detroit, Mich. Soldering Iron. 2,159,869; May 23.
Thompson, James M. (See Horsch, W. F., and Thompson.)
Thouret, Wolfgang. (See Hagen, W., Thouret, and Kern.)
Threlkeld, Lewis P. (See Duncan, Herbert L., assignor.)
Timber Engineering Company. (See Scales, Walter H., assignor.)
Tinnerman, Albert H. (See Tinnerman, George A., assignor.)
Tinnerman, George A., Rocky River, assignor to A. H. Tinnerman, Cleveland, Ohio. Fastening device. 2,159,573; May 23.
Tobler, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Nasal inhaler. 2,159,111; May 23.
Todd, Garry W., Charlotte, N. C. Tractor hitch. 2,159,460; May 23.
Tong, Edmund, et al. (See Quintal, Manuel, assignor.)
Trainer, James E., Fairlawn, C. Ziegler, Barberton, C. H. Yeo, Akron, and W. S. Jordre, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Newark, N. J. Electric welding. 2,159,059; May 23.
Tratsch, Walter A., and W. Patzer, Chicago, Ill. Coin and slug separating device. 2,159,117; May 23.
Tret-O-Lite Company, The. (See Blair, Charles M., Jr., assignor.)
Tret-O-Lite Company, The. (See Blair, C. M., Jr., and Rogers, assignors.)
Tritle, John F., Erie, Pa., assignor to General Electric Company. Control system. 2,159,773; May 23.
Truglitzka, Georg. (See Seliger, H., Bretschneider, Hubald, Krüger, and Truglitzka.)
Truscon Steel Company. (See Morgan, David H., assignor.)
Tschörtner, Carl A., Cologne-on-the-Rhine, Germany. Small-film cine camera. 2,159,574; May 23.
Tubize Chatillon Corporation. (See Lea, William G., assignor.)
Turbo-Mixer Corporation, The. (See MacLean, Gordon, assignor.)
Turkovich, Stephen, Pittsburgh, Pa. Seacraft. 2,159,410; May 23.
Turner, Estey M., Arcadia, Calif. Display device. 2,159,461; May 23.
Tuttle, William R., and C. W. Stickel, assignors to The Kurlash Company, Inc., Rochester, N. Y. Scissor toy. 2,159,060; May 23.
Tweedale, Ralph L., Detroit, Mich. Tooth brush. 2,159,914; May 23.
Tyler Fixture Corporation, The. (See Ward, James H., Jr., assignor.)
Tyler, John M., Birmingham, and T. C. Van Degrift, assignors to General Motors Corporation, Detroit, Mich. Torsional vibration suppressor. 2,159,235; May 23.
Tyler, Kingdon S., Bloomfield, assignor to Eclipse Aviation Corporation, East Orange, N. J. Automatic ice removal. 2,159,186; May 23.
Tyler, Leslie A., Dunmore, Pa. Cleaning and polishing device. 2,159,719; May 23.
USL Battery Corporation. (See Reid, Albert R., assignor.)
Uher, Edmond, Munich, Germany, assignor to the Firm P A G Patentgesellschaft A. G., Zurich, Switzerland. Device for continuously registering the revolutions of an internal combustion engine in consideration of the actual load. 2,159,236; May 23.
Uloth, Robert. (See Mueller-Cunradi, M., and Uloth.)
Underwood, John A., Evanston, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Cooking range. 2,159,575; May 23.
Underwood, John A., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Hot blast cooking attachment for heating stoves. 2,159,576; May 23.
Union Carbide and Carbon Corporation. (See Franks, Russell, assignor.)
Union Carbide and Carbon Corporation. (See Williams, Duncan B., assignor.)
Union Special Machine Company. (See Christen, N. V., and Le Vesconte, assignors.)
Union Switch & Signal Company. (See Allen, Earl M., assignor.)
Union Switch & Signal Company. (See Bell, Charles W., assignor.)
Union Switch & Signal Company. (See Grondahl, Lars O., assignor.)
Union Switch & Signal Company, The. (See Stevens, Sydney A., assignor.)
United-Carr Fastener Corporation. (See Chaffee, Raymond O., assignor.)
United-Carr Fastener Corporation. (See Jones, Walter L., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United Lens Corporation. (See Arbuckle, Samuel F., assignor.)
United Shoe Machinery Corporation. (See Armstrong, Howard E., assignor.)
United Shoe Machinery Corporation. (See Knott, Clyde L., assignor.)
United Shoe Machinery Corporation. (See Lancaster, John T., assignor.)
U. S. Expansion Bolt Co. (See Zifferer, Morton F., assignor.)
United States Gauge Company. (See Klein, M., and Willach, assignors.)
U. S. Manufacturing Corporation. (See Platt, Stephen A., assignor.)
United Wood Heel Company. (See Quirk, Justin P., assignor.)
Upton, Clifford D., Covington, Ohio. Crutch or supporting device. 2,159,301; May 23.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Phase modulation. 2,159,237; May 23.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Phase modulation. 2,159,238; May 23.
Vance Products. (See Vang, Alfred, assignor.)
Van Degrift, Thomas C. (See Tyler, J. M., and Van Degrift.)
Van Dijck, Willem J. D., The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Batch distillation of liquid mixtures. 2,159,621; May 23.
Vang, Alfred, assignor to Vance Products, Detroit, Mich. Electric flash percussive welding. 2,159,916; May 23.
Van Ike, Clayton. (See Bryson, Harry B., assignor.)
Vannah, Harold P. (See Richter, G. A., and Vannah.)
Van Sickel, Ernest J. (See Sandberg, R. A., and Van Sickel.)
Van Vlodrop, Cornelus. (See Waterman, H. I., and van Vlodrop.)
Van Wagenen, James H., Washington, D. C., deceased: L. J. Van Wagenen executrix, assignor to L. J. Van Wagenen. Freewheeling register installation. 2,159,915; May 23.
Van Wagenen, Lois J., executrix. (See Van Wagenen, James H.)
Veeder-Root Incorporated. (See Bliss, Harvey N., assignor.)
Veeder-Root Incorporated. (See Manke, Gustave L., assignor.)
Veenemans, Cornelis F., E. H. Löpp, and H. Bruining, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Secondary electron emitter and making it. 2,159,774; May 23.
Veracol Film Syndicate Limited, The. (See Murray, H. D., and Spencer, assignors.)
Verueren, Jean. (See Hagendorn, J. E., and Varvueren, assignors.)
Vincenzoni, Alvaro, Terni, Italy. Transmission gear having an automatically variable transmission ratio. 2,159,462; May 23.
Visser, John, Grand Rapids, Mich. Ash receiver. 2,159,061; May 23.
Visser, John, Grand Rapids, Mich. Ash receiving container. 2,159,062; May 23.
Vogel, Hugo, Jr., Sandusky, Ohio. Anchoring means for candle holders. 2,159,115; May 23.
Vogel-Jorgensen, Mikael, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y. Feeder for pulverulent materials. 2,159,239; May 23.
Vold, Lars H., Butler, Pa. Refrigerating system. 2,159,187; May 23.
Vollmer, Paul A., Rochester, Pa., assignor to National Electric Products Corporation. Adjustable saddle support. 2,159,188; May 23.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Gumming machine. 2,159,641; May 23.
Voorheis, Joseph T., Oakland, Calif. Heat exchange apparatus. 2,159,463; May 23.
Voris, E. A., administrator. (See Voris, John A.)
Voris, John A., deceased. Kirkland, Wash.; E. A. Voris, administrator. Meat-scoring machine. 2,159,730: May 23.
Waage, Edward, and K. E. Lindhagen, Port Richmond, Staten Island, N. Y. Automobile headlight. 2,159,464; May 23.
Wagner, William L., Toledo, Ohio. Reminder device. 2,159,917; May 23.
Wahlmark, Gunnar A., Rockford, Ill. Pump. 2,159,720; May 23.
Wais, William R., West Albany, N. Y. Air circulating device. 2,159,189; May 23.
Walker, Clyde T., Orlando, Fla. Radiator testing and repair apparatus. 2,159,063; May 23.
Wallace, Frederick J., Brooklyn, assignor to Robeson Process Company, New York, N. Y. Sulphite waste liquor-phenol-aldehyde condensation products. 2,159,411; May 23.

Wallis, Albert E., Clydach, England, assignor to The International Nickel Company, Inc., New York, N. Y. Process relating to the production of nickel carbonyl. 2,159,412; May 23.
Walter, Karl. (See Rab, K., and Walter.)
Walter, Lawrence, Berkeley, Calif. Electrical connector. 2,159,064; May 23.
Walters, Jake L., Randlett, Okla. Mop wringer. 2,159,577; May 23.
Wälti, Heinrich, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Internal combustion engine valve. 2,159,607; May 23.
Ward, James H., Jr., Niles, Mich., assignor, by mesne assignments, to The Tyler Fixture Corporation. Refrigerator. 2,159,608; May 23.
Warnock, Leonard E., Towns, Ga. Tool. 2,159,918; May 23.
Waterman, Hein I., and C. van Vlodrop, Delft, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Multistage evaporator. 2,159,303; May 23.
Waters, Harry F., New York, N. Y. Package and making the same. 2,159,835; May 23.
Watkins, James R., Niles Center, Ill. Containers. 2,159,642; May 23.
Watson, John Warren, Company. (See Watson, John W., assignor.)
Watson, John W., Wayne assignor to John Warren Watson Company, Philadelphia, Pa. Motion damping mechanism. 2,159,919; May 23.
Wayne Pump Company, The. (See Arnold, R. H., Polhamus, and Somervell, assignors.)
Wayne Pump Company, The. (See Spannburg, H. L., and Wild, Edward and O., Jr., assignors.)
Webb, Howard W. (See Rike, F. F., and Webb.)
Weber, Frederick W. (See Doty, John T., assignor.)
Weeks, Francis H. and R. B., New York, N. Y. Scale box and suspension therefor. 2,159,065; May 23.
Weeks, Richard B. (See Weeks, Francis H. and R. B.)
Weible, Carl J., Cleveland, Ohio, assignor to Bailey Meter Company. Telemetric system. 2,159,413; May 23.
Weiher, George F., Dayton, Ohio. Smoker's appliance. 2,159,190; May 23.
Weiman, Frank X., assignor of one-half to B. A. Haberhush, Olean, N. Y. Combination deep fat frying kettle. 2,159,578; May 23.
Weiner, Albert, Providence, R. I. Bead making machine. 2,159,066; May 23.
Weingand, Richard, and E. Acker, Bomlitz, near Walsrode, Germany, assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Producing cellulose esters. 2,159,643; May 23.
Weiser, Norman J., Buffalo, N. Y. Door closer and check. 2,159,067; May 23.
Welch, Joseph C., and M. P. Wilder, Houston, Tex. Bolted connection. 2,159,346; May 23.
Weld, Foster E., Newton, assignor to The Gamewell Company, Newton Upper Falls, Mass. Timing mechanism. 2,159,920; May 23.
Welk, Nelson S., Athens, Ohio, and F. Hocker, Harrisburg, Pa., assignors to The McBee Company, Athens, Ohio. Support for loose leaf binders. 2,159,921; May 23.
Wells, Robert F., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,159,922; May 23.
Wengen, Frank J., assignor to Eagle Knitting Mills, Inc., Milwaukee, Wis. Cap. 2,159,609; May 23.
Wenner, Wilhelm, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Manufacture of laevo-ascorbic acid. 2,159,191; May 23.
Werdin, Ernest R., Los Angeles, Calif. Garbage can liner. 2,159,192; May 23.
Wert, Edwin A., Detroit, Mich., assignor to Blaw-Knox Company. Hanger. 2,159,870; May 23.
Weskenson Corporation. (See Johnson, William H., assignor.)
West, Charles W., Burlingame, Calif. Die and tap wrench. 2,159,680; May 23.
West, John D., assignor to Manitowoc Shipbuilding Corporation, Manitowoc, Wis. Electromagnetic control device. 2,159,610; May 23.
Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting system. 2,159,827; May 23.
Western Electric Company. (See Boswin, George A., assignor.)
Western Electric Company. (See Bureau, Arthur A., assignor.)
Western Electric Company. (See Landreth, Morton L., assignor.)
Western Electric Company. (See Link, Arthur C., assignor.)
Western Electric Company. (See Newton, E. E., and Ray, assignors.)
Western Stove Company. (See Honer, Henry, assignor.)
Western Union Telegraph Company, The. (See Cannon, William D., assignor.)
Westinghouse Air Brake Company, The. (See Bush, Rankin J., assignor.)
Westinghouse Air Brake Company, The. (See Craig, John F., assignor.)
Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See Kelley, Cecil S., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Stevens, Roy R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Anderson, William B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Crabbs, Herbert J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalischer, Milton, assignor.)
Westinghouse Electric & Manufacturing Company. (See Sterrett, Charles C., assignor.)
Wetmore, Foster H., deceased; R. E. Brainerd, administrator, assignor to M. H. Wetmore, Detroit, Mich. Automatic clutch. 2,159,956; May 23.
Wetmore, Mary H., (See Wetmore, Foster H., assignor.)
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Tuning indicator. 2,159,240; May 23.
Wheelock, John H., Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Alarm dispatching device and system. 2,159,304; May 23.
Whitacre-Greer Fireproofing Company, The. (See Estep, Arthur C., assignor.)
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Indicator for suction cleaners. 2,159,112; May 23.
White Motor Company, The. (See Kinney, Le Baron W., Jr., assignor.)
White, Raymond T., Philadelphia, Pa. Keyhole cover. 2,159,305; May 23.
Whitehead, William, Cumberland, Md., assignor to Celanese Corporation of America. Treating textile materials. 2,159,113; May 23.
Whitney, Kenneth E. (See Chappell, R. R., and Whitney.)
Whitney, William E., Cambridge, Mass. Golf club or the like. 2,159,579; May 23.
Whitted, John B. (See Le Fevre, A. W., Farr, Coxon, and Whitted.)
Wiener, Irving L. (See Harrison, Harry P., assignor.)
Wiget, Georg, assignor to Societe Anonyme Adolphe Saurer, Arbon, Switzerland. Loom. 2,159,828; May 23.
Wigg, William, North Finchley, London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Production of machine-set-type composition. 2,159,492; May 23.
Wilby, Edward W. (See Kimball, C. N., and Wilby.)
Wilcox Heat Machine Company. (See Wilcox, Roland E. and M., assignors.)
Wilcox, Merton. (See Wilcox, Roland E. and M.)
Wilcox, Roland E., Chicago, and M. Wilcox, Palatine, assignors to Wilcox Heat Machine Company, Chicago, Ill. Oil burner. 2,159,414; May 23.
Wild, Edward. (See Spaunburg, H. L., and Wild, Edward and O., Jr.
Wild, Otto, Jr. (See Spaunburg, H. L., and Wild, Edward and O., Jr.)
Wilder, Marshall P. (See Welch, J. C., and Wilder.)
Willach, Bernhard. (See Klein, M., and Willach.)
Willard, Frank M., Timber Lake, S. Dak. Pocket sail. 2,159,923; May 23.
Williams, Calvin C., Philadelphia, Pa. Selective speed transmission and coaster brake. 2,159,465; May 23.
Williams, Duncan B., Glen Ridge, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Disabling-gas-producing chemicals. 2,159,241; May 23.
Williams, Joseph H., Saginaw, Mich. Vise. 2,159,193; May 23.
Williams, M. R., et al. (See Winters, Jacob E., assignor.)
Wilmanns, Gustav Wolfen, Kreis Bitterfeld, W. Schneider, Dessau, and R. Kethur, Bitterfeld, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Reversal development of light-sensitive silver halide emulsions. 2,159,466; May 23.
Wilson, Clarence W., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Making pectin products. 2,159,194; May 23.
Wilson, Jessie M., Philadelphia, Pa. Foldable slicing board. 2,159,945; May 23.
Wineman, Wade H., Coolspring Township, La Porte County, Ind., assignor to Sullivan Machinery Company. Pressure fluid motor. 2,159,467; May 23.
Winkler, Fritz. (See Duftschmid, F., Linch, and Winkler.)
Winters, Jacob E., Huntington Beach, assignor of thirty per cent to M. R. Williams, Los Angeles, and thirty per cent to C. E. Burkhard, Huntington Beach, Calif. Stuffing box. 2,159,306; May 23.
Wisman, Lauren O., Walnut Creek, assignor to E. D. Bullard Company, San Francisco, Calif. Hat. 2,159,681; May. 23.
Witkin, B. E. (See Marvin, Stanley, assignor.)
Witt, Samuel E. (See Pierce, Frank H., assignor.)
Witzel, Ernst. (See Young, F. M., and Witzel.)
Woeckel, Ernst. (See Lenz, K., and Woeckel.)
Wohlfarth, Otto, assignor to Allgemeine Elektricitats Gesellschaft, Berlin, Germany. Tuning element for broadcast receiver sets. 2,159,754; May 23.

Woida, Arthur F., Milwaukee, Wis. Attachment for steering gears of motor vehicles. 2,159,644; May 23.
Wolfe, Halley, Long Beach, assignor to Petroleum Rectifying Company of California, Los Angeles, Calif. Method and apparatus for treating emulsions. 2,159,682; May. 23.
Wolters, Carl F., assignor to Remington Rand Inc., Buffalo, N. Y. Follower for vertical files. 2,159,415; May. 23.
Wood, Albert A., assignor of one-half to E. A. Holton, Columbus, Ohio. Sales and service equipment. 2,159,925; May 23.
Worden, Norbert P. (See Taylor, A. N., and Worden.)
Worden, Norbert P., and C. F. Foley, assignors to C. M. Hall Lamp Company, Detroit, Mich. Lamp structure. 2,159,871; May 23.
Worth Company, The. (See Colman, Ben, assignor.)
Wright, Alfred M., Oakland, Calif. (Guiding and backing means for automobile trailers. 2,159,721; May 23.
Wright, George M., Broom Hall, Woodham Ferrers, Bicknacre, England, assignor to Radio Corporation of America. Modulated carrier wave receiver. 2,159,493; May. 23.
Wright, George N., Logansport, Ind., assignor, by mesne asisgnments, to W. C. Holt, Los Angeles, Calif. Apparatus and method for washing and drying clothes. 2,159,114; May 23.
Wright, Lester P., Richford, N. Y. Chicken house. 2,159,924; May 23.
Wright, Royale A., Grayling, Mich. Combined wall bed and dinette. 2,159,494; May 23.
Yanagi, Masaji, Kamata-ku, Tokyo, Japan. Pipe joint. 2,159,242; May 23.
Yeo, Clarence H. (See Trainer, J. E., Ziegler, Yeo, and Jordre.)
Young, Allan M., assignor to Manning, Bowman & Co., Meriden, Conn. Waffle iron and temperature control and indicator therefor. 2,159,068; May 23.
Young, Fred M., and E. Witzel, assignors to Young Radiator Company, Racine, Wis. Oil temperature regulating device. 2,159,468; May 23.
Young Radiator Company. (See Young, F. M., and Witzel, assignors.)
Younghusband, James L., Chicago, Ill. Lipstick device. 2,159,872; May 23.
Younghusband, James L., Chicago, Ill. Lipstick device. 2,159,873; May 23.
Zablocki, Eugene C., assignor to Briggs Manufacturing Company, Detroit, Mich. Gauge for sewing machines. 2,159,538; May 23.
Zacharias, Robert M., Washington, D. C., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner coupling. 2,159,116; May 23.
Zadek, Arthur, New York, N. Y. Rattle. 2,159,874; May 23.
Zalkind, Philip, New York, N. Y. Cabinet. 2,159,069; May 23.
Zalkind, Philip, New York, N. Y. Container and parts thereof. 2,159,070; May 23.
Zaugg, Arthur. (See Mellor, L. L., and Zaugg.)
Zeh, Ludwig, Leverkusen-Wiesdorf, and C. Heuck, Leverkusen-I. G.-Werk, Germany, assignors to Durand & Huguenin Aktiengesellschaft, Basel, Switzerland. Water-soluble derivatives of vat dyestuffs. 2,159,195; May 23.
Zeiss Ikon Aktiengesellschaft. (See Ploke, Martin, assignor.)
Zellstoffabrik Waldhof. (See Kranz, Bertold, assignor.)
Ziegler, Crawford. (See Trainer, J. E., Ziegler, Yeo, and Jordre.)
Zifferer, Morton F., Great Neck, N. Y., assignor, by mesne assignments, to U. S. Expansion Bolt Co., York, Pa. Expansion bolt. 2,159,580; May 23.
Zitzler, John A., assignor to Speer Carbon Company, St. Marys, Pa. Manufacturing anodes. 2,158,995; May 23.
Zitzler, John A., St. Marys, Pa., assignor to Speer Carbon Company. Carbon anode. 2,158,996; May 23.
Zitzler, John A., St. Marys, Pa., assignor to Speer Carbon Company. Carbon anode. 2,158,997; May 23.
Zitzler, John A., assignor to Speer Carbon Company, St. Marys, Pa. Anode and manufacturing the same. 2,158,998; May 23.
Zwicky, Kaspar, and F. Brunner, assignors to the firm Aktiengesellschaft Cilander, Herisau, Switzerland. Producing wash-fast sized fabrics resistant to shrinkage. 2,159,875; May 23.
Zworykin, Vladimir K., Philadelphia, Pa., and L. Malter, Oaklyn, N. J., assignors to Radio Corporation of America. Method and apparatus for detecting heat. 2,159,755; May 23.
Zworykin, Vladimir K., Philadelphia, Pa., assignor to Radio Corporation of America. Electrical device. 2,159,937; May 23.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bodies from cellulose products and other plastic masses. Process and apparatus for the production of hollow. K. Bratring. Re. 21,094; May 23.
Brooder. B. W. Warner. Re. 21,097; May 23.
Cashier machine. J. C. Stedman. Re. 21,096; May 23.
Link, Repair. B. E. Barnes. Re. 21,093; May 23.
Oils, Distilling. R. E. Humphreys. Re. 21,095; May 23.

LIST OF DESIGN INVENTIONS

Advertising and merchandising device, Automaton. F. L. Dale. 114,919; May 23.
Airplane. B. C. Boulton and L. C. McCarty, Jr. 114,972; May 23.
Alphabet or similar article. O. H. Sam. 114,967; May 23.
Ashtray or similar article. H. G. Dyke. 114,920; May 23.
Badge. F. S. Land. 114,956; May 23.
Badge or similar article. G. A. Thoresen. 114,911; May 23.
Bedstead. O. O. Hobson. 114,896; May 23.
Bottle and display package, Combined. D. Eliot. 114,921; May 23.
Box, Transparent. A. Fogel. 114,891; May 23.
Bracelet. Photographic birthstone. T. Payne, 4th. 114,963; May 23.
Brassière. S. Stein. 114,909; May 23.
Burner, Oil. F. E. Herr. 114,951; May 23.
Cabinet, Dispensing machine. A. B. Hassan. 114,894; May 23.
Cabinet, Instrument. J. F. Haynie, Jr. 114,950; May 23.
Cabinet, Phonograph. L. J. Andres. 114,913–4; May 23.
Cap. F. J. Wengen. 114,980; May 23.
Carton and carrier, Combined display. T. R. Campbell. 114,889; May 23.
Case and flashlight, Combined key. I. Florman. 114,941; May 23.
Case or similar article, Clock. C. B. Simmons. 114,969; May 23.
Chair. J. M. Gardner. 114,892; May 23.
Chair seat. J. B. O'Connor. 114,903; May 23.
Coat. B. Goldschmidt. 114,975; May 23.
Coat. A. Oppenheimer. 114,904; May 23.
Container or similar article, Combined cooking and serving. S. Hayden and C. J. Amick. 114,949; May 23.
Cover or similar article, Table. G. F. Erhard. 114,924-38; May 23.
Crutch or similar article. C. D. Upton. 114,912; May 23.
Cushion or similar article. M. J. Eckman. 114,973; May 23.
Cylinder-head puller. F. L. Niles. 114,901; May 23.
Dish or article of similar nature, Glass relish. T. C. Heisey. 114,895; May 23.
Dispenser for elastic bands or the like. O. Lobl. 114,957; May 23.
Drawer pull or similar article. J. R. Jones. 114,897; May 23.
Dress. A. T. Berman. 114,915; May 23.
Dress. A. Engel. 114,922–3; May 23.
Dress. R. Feintuck. 114,939; May 23.
Dress. P. Fracchia. 114,942–4; May 23.
Dress. P. Fracchia. 114,946; May 23.
Dress. H. Goldman. 114,974; May 23.
Dress. D. Klein. 114,898; May 23.
Dress. H. May. 114,959; May 23.
Dress. N. Rolfe. 114,966; May 23.
Dress. M. Stone. 114,910; May 23.
Dress. S. Wicha. 114,971; May 23.
Dress and slip ensemble. M. V. Mascitelli. 114,958; May 23.
Dress ensemble. R. Feintuck. 114,940; May 23.
Dress ensemble. P. Fracchia. 114,945; May 23.
Dress ensemble. M. R. Richardson and E. Staber. 114,964; May 23.
Fabric or similar article, Textile. E. P. Bixer. 114,916; May 23.
Fabric or similar article of manufacture, Textile. A. Lang. 114,977–8; May 23.
Fabric, Textile. L. Lazare. 114,982; May 23.
Gown, Wedding. M. J. Shapiro. 114,907; May 23.
Hamper or similar article. H. Gleitsman. 114,948; May 23.
Handbag. L. Moss. 114,983; May 23.
Handbag. L. S. Schlessinger. 114,968; May 23.
Hat. A. Rothchild. 114,906; May 23.
Heater, Electric. H. C. Johnson. 114,953; May 23.
Mold, Culinary. A. Napolillo. 114,900; May 23.
Ornament or the like, Desk. H. J. Agnew. 114,888; May 23.
Ornamentation transfer sheet for china ware or the like. J. H. Perry. 114,979; May 23.
Pencil. K. Kreutzer. 114,955; May 23.
Pencil and thermometer, Combined. J. G. Lipic, Jr. 114,899; May 23.
Pin or similar article. O. Pennino. 114,905; May 23.
Plate or similar article. V. Skellern. 114,908; May 23.
Power plant unit. F. Jervis. 114,952; May 23.
Saw, Electric hand. B. Sullivan. 114,970; May 23.
Scaffold end frame. R. M. Norton. 114,902; May 23.
Shoe. W. F. Cairns. 114,917–8; May 23.
Signal device. L. Rittenhouse. 114,965; May 23.
Sound-projector for automobile horns or the like. P. Nielsen. 114,960; May 23.
Spear. L. D. Goddeyne. 114,893; May 23.
Spring shackle side link, Automotive. C. H. Sayre. 114,981; May 23.
Statuette or similar article. I. Defren. 114,890; May 23.
Stove, Heating. A. D. Olds. 114,961; May 23.
Suitcase or the like. J. Ortner. 114,962; May 23.
Sweater, Dog. M. Laczko. 114,976; May 23.
Tire. H. T. Kraft. 114,954; May 23.
Transformer, Electrical. W. J. Garlick, Jr. 114,947; May 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetic anhydride, Separation of. H. M. Guinot. 2,159,146; May 23.
Acid esters of 2-chloroallyl alcohol, Saturated polycarboxylic. G. H. Coleman and B. C. Hadler. 2,159,008; May 23.
Acid, Manufacture of laevo-ascorbic. W. Wenner. 2,159,191; May 23.
Acids, Manufacture of unsaturated fatty. K. Hennig. 2,159,700; May 23.
Adhesive. P. B. Davidson and J. R. Adams. 2,159,613; May 23.
Adjustable door. J. Rivard. 2,159,403; May 23.
Adjustable saddle support. P. A. Vollmer. 2,159,188; May 23.
Aerial, Automatic slide. S. J. Max. 2,159,903; May 23.
Agitator, Washing machine. R. W. Janda. 2,159,271; May 23.
Agricultural implement. A. J. Olson. 2,159,448; May 23.
Air brake. C. A. Campbell. 2,159,686–7; May 23.
Air circulating device. W. R. Wais. 2,159,189; May 23.
Air cleaner. R. C. Darnell. 2,159,551; May 23.
Air conditioning apparatus. H. Hersperger. 2,159,024; May 23.
Air conditioning apparatus. R. D. Lambert. 2,159,030; May 23.
Air conditioning system. A. J. Lawless. 2,159,276; May 23.
Air conditioning system utilizing refrigeration. H. R. Sewell and R. T. Palmer. 2,159,570; May 23.
Aircraft at night, System of locating. F. R. House. 2,159,482; May 23.
Air distribution, System of. W. J. Madden. 2,159,219; May 23.
Alarm dispatching device and system. J. H. Wheelock. 2,159,304; May 23.
Alarm, Fire. H. R. Alker. 2,159,650; May 23.
Alkylene oxides, Isomerization of. G. H. Law and R. W. McNamee. 2,159,507; May 23.
Alloy. J. O. Betterton, A. J. Phillips, and A. A. Smith, Jr. 2,159,124; May 23.
Alloy articles, Producing nickel. L. Schlecht and W. Schubardt. 2,159,231; May 23.
Amplifiers, Neutralizing high-frequency push-pull. W. Buschbeck and H. Prost. 2,159,731; May 23.
Anchor, Earth. C. E. Handel. 2,159,268; May 23.
Anchoring means for candle holders. H. Vogel, Jr. 2,159,115; May 23.
Angularity adjusting means for feathering rotors and the like. J. L. John. 2,159,382; May 23.
Anilines, Manufacture of nuclear alkylated. R. R. Dreisbach. 2,159,370; May 23.
Animal restrainer. A. Marty. 2,159,441; May 23.
Animal trap. M. A. Huebener and J. U. Lehn. 2,159,483; May 23.
Anode and manufacturing the same. J. A. Zitzler. 2,158,998; May 23.
Anode, Carbon. J. A. Zitzler. 2,158,996–7; May 23.
Anodes, Manufacturing. J. A. Zitzler. 2,158,995; May 23.
Antenna. A. Alford. 2,159,646; May 23.
Antenna coupling device for radio receivers. B. Bauer and R. B. Albright. 2,159,546; May 23.
Antenna, Radio. L. A. Hyland. 2,159,379; May 23.
Antenna system. G. T. Royden. 2,159,637; May 23.
Apparatus subjected to heat and cold alternately. R. Franks. 2,159,723; May 23.
Apparel, Wearing. I. C. Allen. 2,159,119; May 23.
Arc quencher. F. B. Adam and F. S. Green. 2,159,645; May 23.
Article and producing same, Composite. W. H. Charch and D. E. Bateman. 2,159,007; May 23.
Article, Metallic. L. Schlecht and W. Schubardt. 2,159,604; May 23.
Articles, Manufacture of molded, waterlaid fiber. M. O. Schur. 2,159,638; May 23.
Articulated mechanism for the transmission of movement. F. R. Ibañez. 2,159,896; May 23.
Ash receiver. J. Visser. 2,159,061; May 23.
Ash receiving container. J. Visser. 2,159,062; May 23.
Atomizer. W. S. Bowen. 2,159,201; May 23.
Atomizer. R. H. Seaman and A. Monk. 2,159,407; May 23.
Attaching device for bag frame fasteners. H. J. Murphy. 2,159,445; May 23.
Attachment for heating stoves, Hot blast cooking. J. A. Underwood. 2,159,576; May 23.
Attachment for steering gears of motor vehicles. A. F. Woida. 2,159,644; May 23.
Automatic air coupling. C. C. Montgomery and C. Johnson. 2,159,906; May 23.
Automatic clutch. F. H. Wetmore. 2,159,956; May 23.
Automatic load lock. H. B. Bryson. 2,159,421; May 23.
Bag: *See*—
Harvester bag.
Bag filling device. J. J. and H. G. Neuman. 2,159,858; May 23.
Bait, Fish. C. A. Scogland and P. H. Sanders. 2,159,606; May 23.
Bait receptacle. C. B. Spiner and E. Pulaski. 2,159,718; May 23.
Barrel ring. F. R. Schaefer and R. W. Emery. 2,159,862; May 23.
Base for machine tools and the like. W. B. Boom. 2,159,247; May 23.
Basket for collective dishwashing, Plate. C. Barrie. 2,159,365; May 23.
Bat-forming table. L. Marino. 2,159,282; May 23.
Batch distillation of liquid mixtures. W. J. D. van Dijck. 2,159,621; May 23.
Battery. W. Matthews. 2,159,034; May 23.
Battery case for automobiles. L. F. Ferguson. 2,159,890; May 23.
Battery charging apparatus. J. F. Cullin. 2,159,885; May 23.
Battery plate and treating such plate, Electric storage. A. R. Reid. 2,159,226; May 23.
Battery terminal connector. H. J. Rich. 2,159,512; May 23.
Battery terminal, Corrosion-resistant. L. F. Jourdan and H. A. Levey. 2,159,854; May 23.
Bead making machine. A. Weiner. 2,159,066; May 23.
Bearing: *See*—
Roll bearings.
Bearing. W. Bartosch. 2,159,545; May 23.
Bearing. J. V. Hendrick. 2,159,327; May 23.
Bearing for weighing scales. A. E. Bennett. 2,159,684; May 23.
Beat-up mechanism of looms for weaving. O. and D. W. Shimwell. 2,159,865; May 23.
Bed, Adjustable. O. C. Caldwell. 2,159,883; May 23.
Bed air conditioning apparatus. C. F. Kettering and E. C. Sittler. 2,159,741; May 23.
Bed and dinette, Combined wall. R. A. Wright. 2,159,494; May 23.
Bed side, Removable. J. Erdos. 2,159,323; May 23.
Bedspring cover. A. Schulman. 2,159,535; May 23.
Belt, Reversible. E. S. Mix. 2,159,857; May 23.
Bench and blackboard, Combined. C. E. Beeman. 2,159,517; May 23.
Bench, Work. M. H. McMillan. 2,159,172; May 23.
Beverage cooling and dispensing apparatus and method. H. W. Ribble. 2,159,729; May 23.
Beverage of reduced inebriating capacity, Alcoholic. L. Lilienfeld. 2,159,167; May 23.
Bias woven fabric. A. J. Gash. 2,159,264; May 23.
Binder, Loose leaf. J. Cooper and G. H. J. Baule. 2,159,009; May 23.
Bit shank slotting device, Detachable drill. C. E. Cook. 2,159,840; May 23.
Bits, Fabricating detachable drill. C. E. Cook. 2,159,842; May 23.
Bits, Reconditioning detachable drill. C. E. Cook. 2,159,841; May 23.
Blade magazine. J. Muros. 2,159,933; May 23.
Blind, Hunter's. G. Killinger. 2,159,273; May 23.
Blower, Gas turbine driven. A. Buchi. 2,159,422; May 23.
Blowout preventer. J. W. MacClatchie. 2,159,540–1; May 23.
Board: *See*—
Foldable slicing board. Insulating structural board.
Bodies, Casting. A. L. Bennett. 2,159,349; May 23.
Bodies during shipment, Securing heavy. V. J. Gibbons. 2,159,848; May 23.
Boiler: *See*—
Steam boiler.
Boiler feed apparatus. R. E. Strobel. 2,159,345; May 23.
Bolt and like externally screw-threaded members. O. E. Simmonds. 2,159,866; May 23.
Bolt, Expansion. M. F. Zifferer. 2,159,580; May 23.
Bolt, Latch. R. E. Blue. 2,159,315; May 23.
Bookbinding machinery. R. Leighton. 2,159,439; May 23.
Booster, Magnetic traction. J. C. McCune. 2,159,814; May 23.
Boot and the like. J. T. Murphy. 2,159,816; May 23.
Bottles and other containers, Mechanism for labeling. S. T. Carter. 2,159,318; May 23.
Box: *See*—
Chick box. Folding box.
Display box. Stuffing box.
Bracelet attachment. A. B. Goulden. 2,159,079–80; May 23.

Bracing and operating means for closures. D. H. Morgan. 2,159,040; May 23.
Bracket and holder, Flashlight. B. F. Muldoon. 2,159,932; May 23.
Brake: *See*—
Air brake. Ski brake.
Fluid pressure brake.
Brake arrangement. W. H. Baselt. 2,159,366; May 23.
Brake beam strut. D. Paterson. 2,159,100; May 23.
Brake control, Automatic train. C. C. Farmer. 2,159,789; May 23.
Brake lever construction. H. S. Jandus and R. A. Sandberg. 2,159,799; May 23.
Brake lever, Friction type. R. A. Sandberg and E. J. Van Sickel. 2,159,821; May 23.
Brake lining. V. H. Sanders. 2,159,935; May 23.
Bread, Making twist. D. Beyer. 2,159,246; May 23.
Broom and mop hanger. C. P. Buchanan. 2,159,548; May 23.
Brush, Retractable. W. E. Enns. 2,159,432; May 23.
Bucket, Weigh. W. E. Farrell. 2,159,689; May 23.
Bumper apparatus, Safety car. T. K. Brockett. 2,159,651; May 23.
Burner: *See*—
Liquid fuel burner. Oil burner.
Burner control system, Fluid fuel. C. G. Kronmiller. 2,159,617; May 23.
Cabinet: *See*—
Image projection cabinet.
Cabinet. P. Zalkind. 2,159,069; May 23.
Cable: *See*—
Electric cable.
Cable casing cutter. T. I. Sherrill. 2,159,715; May 23.
Cable tapping device. A. J. Hixon. 2,159,154; May 23.
Cam action, Overlapping. W. H. Johnson. 2,159,739; May 23.
Camera, Small-film cine. C. A. Tschörtner. 2,159,574; May 23.
Can aligning device, Tall. M. Quamma. 2,159,050; May 23.
Can aligning means. M. Quamma. 2,159,049; May 23.
Can body, Fiber. A. G. Hatch. 2,159,948; May 23.
Can holder and contents dispenser. E. Karzenski. 2,159,897; May 23.
Cap. F. J. Wengen. 2,159,609; May 23.
Capacitor. G. L. Grundmann. 2,159,793; May 23.
Capacitor, Electric. W. J. Thacker. 2,159,826; May 23.
Car: *See*—
Drop bottom car.
Car loading device. B. Colman. 2,159,320; May 23.
Car truck. O. C. Duryea. 2,159,138; May 23.
Carbonaceous substances containing sulphur, Method and plant for the hydrogenation of. P. Marécaux. 2,159,281; May 23.
Carburetor. E. Schimanck. 2,159,294; May 23.
Carburetor for internal combustion engines. M. Mennesson. 2,159,173; May 23.
Card and holder, Display. E. C. Berg. 2,159,838; May 23.
Cards or the like, Device for mixing playing. E. Sachs. 2,159,958; May 23.
Carrier: *See*—
Railway highway-vehicle carrier.
Carrier wave receiver, Modulated. G. M. Wright. 2,159,493; May 23.
Carton. H. L. Greve. 2,159,737; May 23.
Case: *See*—
Vanity case.
Casing head. L. L. Rector. 2,159,401; May 23.
Casket. J. Fletcher. 2,159,144; May 23.
Catalytic reactions, Carrying out. M. Pier, W. Simon, and P. Jacob. 2,159,511; May 23.
Catch mechanism. C. R. Hennicke. 2,159,895; May 23.
Cellulose esters, Producing. R. Weingand and E. Acker. 2,159,643; May 23.
Cellulosic structure and preparing same. G. H. Latham and J. K. Hunt. 2,159,743; May 23.
Cement mixer. J. F. Clemens. 2,159,205; May 23.
Centrifugal method and apparatus therefor. H. B. Cleveland. 2,159,732; May 23.
Certificate holder. S. W. Bjorkquist. 2,159,547; May 23.
Chain: *See*—
Conveyer chain. Tire chain.
Extension key chain.
Chain applying device, Tire. H. D. Boycott. 2,159,626; May 23.
Chemicals, Disabling-gas-producing. D. B. Williams. 2,159,241; May 23.
Chick box. R. N. Richards. 2,159,451; May 23.
Chimney connector. A. H. Klein. 2,159,539; May 23.
Chloride and nitric oxide, Catalytic oxidation of nitrosyl. W. C. Klingelhoefer, Jr. 2,159,528; May 23.
Chord engaging device for musical instruments. T. Schmidt. 2,159,677; May 23.
Chromium-nickel steel. F. M. Becket and R. Franks. 2,159,497; May 23.
Chuck, Tap holder. C. W. Johnson. 2,159,162; May 23.
Chucking means. D. H. Montgomery. 2,159,931; May 23.
Cigarette and making the same. H. A. Levey. 2,159,704; May 23.
Cigarette dispenser. A. F. Lambert. 2,159,356; May 23.
Cigarettes and other articles of similar shape, Apparatus for feeding. J. W. Chalmers. 2,159,132; May 23.
Cigarettes and other articles, Packing of. G. D. Horgan. 2,159,158; May 23.
Cinematography, Apparatus for color. A. Blondel. 2,159,420; May 23.
Circuit: *See*—
Noise limiter circuit. Tuning indicator circuit.
Circuit arrangement for reducing transients. A. Alford. 2,159,649; May 23.
Circuit breaker contact. C. H. Hill. 2,159,764; May 23.
Circuit breaker, Electric. L. S. Hobson. 2,159,829–30; May 23.
Circuit breaker, Electrical. O. K. Beckler. 2,159,368; May 23.
Circuits, Frequency conversion. R. L. Miller. 2,159,595–7; May 23.
Circuits, High frequency tank. J. W. Conklin and R. Serrell. 2,159,782; May 23.
Circuits, Receiver noise quieting. K. Steimel. 2,159,753; May 23.
Clamp: *See*—
Garment clamp.
Clamp. G. E. Barozzi. 2,159,776; May 23.
Clasp. G. A. Quetin. 2,159,709; May 23.
Cleaner: *See*—
Air cleaner. Suction cleaner.
Cleaning and polishing device. L. A. Tyler. 2,159,719; May 23.
Cleaning apparatus. D. V. Nelson. 2,159,176; May 23.
Clip: *See*—
Insigne insert clip.
Closure for collapsible tubes. E. Isler. 2,159,161; May 23.
Closure operator. A. J. Poteet. 2,159,861; May 23.
Closure structure for windows and doors, Knock-down. R. W. Lotz. 2,159,666; May 23.
Clothes, Apparatus and method for washing and drying. G. N. Wright. 2,159,114; May 23.
Clothes drier, Rotating. R. J. Jenks. 2,159,436; May 23.
Clothing, Method and means for use in fitting. E. J. McGrath, Jr. 2,159,035; May 23.
Clutch: *See*—
Automatic clutch. Hydraulic clutch.
Clutch and brake. R. E. Harwood and G. E. Munschauer. 2,159,326; May 23.
Coal burning apparatus. H. Bleibtreu. 2,159,200; May 23.
Coat. J. Siegel. 2,159,408; May 23.
Cock assembly, Fuel. G. T. Downey. 2,159,845; May 23.
Coil, Cathode ray focusing. E. Ruska. 2,159,534; May 23.
Coil winding apparatus. P. K. Ranney. 2,159,635; May 23.
Coin and slug separating device. W. A. Tratsch and W. Patzer. 2,159,117; May 23.
Coin controlled apparatus. M. L. Landreth. 2,159,215; May 23.
Coin holder. N. L. Fulton. 2,159,555; May 23.
Coin vending machine. W. H. Rowe and C. Gabrielson. 2,159,603; May 23.
Comb, Vacuum. C. E. Mitchell. 2,159,096; May 23.
Combination door. J. S. Murphy. 2,159,530; May 23.
Compensated switch. L. M. Persons. 2,159,342; May 23.
Compounds of copper, arsenic, and a sulphmono-carboxylic acid and making them. F. E. Dearborn. 2,159,585; May 23.
Compressor control switch. J. F. Craig. 2,159,781; May 23.
Compressor for refrigerating apparatus, Rotary. R. M. Smith. 2,159,936; May 23.
Compressor lubricating device. J. C. McCune. 2,159,815; May 23.
Concrete cutting device. G. W. Hirth. 2,159,699; May 23.
Concrete mixer. S. M. Skrzynski. 2,159,184; May 23.
Concrete riprap. D. A. Buzzell. 2,159,685; May 23.
Concrete systems, Water-distributing system for. C. I. Bohmer and R. F. Gatch. 2,159,499; May 23.
Confections, Apparatus for forming. W. J. Murphy. 2,159,338; May 23.
Connecting rod. F. E. Kling and H. F. Shaw. 2,159,165; May 23.
Connection, Bolted. J. C. Welch and M. P. Wilder. 2,159,346; May 23.
Connection for storage batteries, Electrical. K. E. Odell 2,159,042; May 23.
Connector: *See*—
Battery terminal connector. Electric connector.
Chimney connector. Electrical connector.
Connector. A. J. Hixon. 2,159,153; May 23.
Connector or terminal, Electric. J. J. Jolliffe. 2,159,163; May 23.
Container: *See*—
Ash receiving container.
Electrically heated container.
Container. J. R. Watkins. 2,159,642; May 23.
Container and parts thereof. P. Zalkind. 2,159,070; May 23.
Container for bakery products. L. M. Lipowsky and I. Bach. 2,159,279; May 23.
Control device. D. G. Taylor. 2,159,513; May 23.

Control device, Inertia operated. R. J. Bush. 2,159,778; May 23.
Control for thermal systems having heat exchangers, Automatic. J. N. Swarr. 2,159,110; May 23.
Control mechanism for internal combustion engines. H. L. Duncan. 2,159,017; May 23.
Control switch, Time or time-. H. G. Heil. 2,159,085; May 23.
Control system. W. D. Hall. 2,159,658; May 23.
Control system. J. F. Tritle. 2,195,773; May 23.
Control system, Electric. J. D. Ryder. 2,159,181; May 23.
Controller for circuit interrupters. C. Stansbury. 2,159,298; May 23.
Conveyer chain. R. S. Miller and H. Hansen. 2,159,396; May 23.
Conveyer, Hydraulic. F. D. Chapman. 2,159,352; May 23.
Conveyer system for presses. H. D. Cavin. 2,159,779; May 23.
Cooler and filter, Oil. F. F. Kishline and G. L. Reynolds. 2,159,558; May 23.
Copper acetoarsenite or Schweinfurt green, Manufacture of. M. Serciron. 2,159,864; May 23.
Copper or its alloys with tin, Coating. A. E. Pavlish and J. D. Sullivan. 2,159,510; May 23.
Counter. H. N. Bliss. 2,159,314; May 23.
Counter. G. L. Manke. 2,159,334; May 23.
Coupling: *See*—
Automatic air coupling. Suction cleaner coupling.
Coupling arrangement for amplifiers and repeaters. W. V. Roberts. 2,159,944; May 23.
Coupling member. G. R. Bamberger. 2,159,756; May 23.
Cover: *See*—
Bedspring cover. Wheel cover.
Keyhole cover.
Cover installation and fastener for the same, Slip. W. I. Jones. 2,159,383; May 23.
Covering for flowerpots, Decorative. K. Rab and K. Walter. 2,159,302; May 23.
Cream machine, Frozen. J. Parcell. 2,159,450; May 23.
Cribbing construction. G. C. Habicht. 2,159,556; May 23.
Crutch or supporting device. C. D. Upton. 2,159,301; May 23.
Cup, Measuring. O. E. Dickeson. 2,159,431; May 23.
Curb, Inlet. E. W. Shaw. 2,159,752; May 23.
Curler, Eyelash. H. A. and P. J. Squire. 2,159,912; May 23.
Curtain support. H. H. Davies. 2,159,425; May 23.
Cushion, Metatarsal. B. J. Silver. 2,159,054; May 23.
Cutter: *See*—
Cable casing cutter. Dough cutter.
Cylinder head puller. H. G. Klermund. 2,159,593; May 23.
Derivatives of vat dyestuffs, Water-soluble. L. Zeh and C. Heuck. 2,159,195; May 23.
Desk pad. S. N. Hope. 2,159,212; May 23.
Device for actuating a clutch and a change speed gear in automobiles. K. Maybach. 2,159,170; May 23.
Device for continuously registering the revolutions of an internal combustion engine in consideration of the actual load. E. Uher. 2,159,236; May 23.
Device for laying cloths about pre-pressed cakes in oil-pressing apparatus. A. N. Honig. 2,159,270; May 23.
Device for supporting and displaying merchandise. N. Snelling. 2,159,823; May 23.
Dial. E. K. Madan. 2,159,095; May 23.
Die and tap wrench. C. W. West. 2,159,680; May 23.
Diesel engine. J. Barraja-Frauenfelder. 2,159,197; May 23.
Direction, Indicating. L. C. F. Horle. 2,159,159; May 23.
Discharge device. H. J. Spanner. 2,159,824; May 23.
Dispenser: *See*—
Cigarette dispenser. Sugar dispenser.
Display box. J. K. Darragh. 2,159,887; May 23.
Display device. E. M. Turner. 2,159,461; May 23.
Display rack, Portable. J. Stannard. 2,159,233; May 23.
Displayer, Portable. A. M. Barrett. 2,159,612; May 23.
Distributor apparatus and governor therefor. H. A. Cartwright. 2,159,319; May 23.
Distributor for pneumatically transported solid material. R. M. Hardgrove and D. E. Griesemer. 2,159,629; May 23.
Doll. E. G. Schaeffer. 2,159,293; May 23.
Door: *See*—
Adjustable door. Stove door.
Combination door.
Door closer and check. N. J. Welser. 2,159,067; May 23.
Door latch. F. L. Aumack. 2,159,362; May 23.
Door lock. W. A. Endter. 2,159,940; May 23.
Door operating apparatus. H. R. Fyke. 2,159,522; May 23.
Dough and like material to sheeting and like machines, Feeding. J. C. Paterson. 2,159,044; May 23.
Dough cutter. A. S. T. Lagaard. 2,159,726; May 23.
Draft gear. D. F. Sproul. 2,159,457; May 23.
Drain for journal cellars, Water. J. E. Runner. 2,159,750; May 23.
Drier: *See*—
Clothes drier.
Drill. W. J. Bauroth. 2,159,071; May 23.
Drilling machine. R. K. Jeffrey. 2,159,087; May 23.
Drilling machine switch. R. K. Jeffrey. 2,159,087–9; May 23.
Drive for lehr rolls, Magnetic. E. A. Fusca. 2,159,657; May 23.
Driving gear. W. R. Gorham. 2,159,694; May 23.
Driving mechanism. W. T. Dunn. 2,159,428; May 23.
Driving mechanism. W. T. Dunn. 2,159,430; May 23.
Drop-test machine, Automatic. C. W. McSwain. 2,159,036; May 23.
Dropper for carcasses and the like. O. C. Schmidt. 2,159,623; May 23.
Dump bottom car. H. W. Sanford. 2,159,292; May 23.
Duplicator. K. O. Christianson. 2,159,471; May 23.
Dyestuffs, Azo. C. Apotheker, M. Hartmann, and E. Merz. 2,159,542; May 23.
Dyestuffs capable of being chromed, Anthraquinone. G. Kränzlein, H. Schlichenmaier, and T. Meissner. 2,159,506; May 23.
Ear and forehead protector. T. P. Gribbin. 2,159,435; May 23.
Earth moving device. E. W. Austin. 2,159,348; May 23.
Electric cable, Gas pressure. E. Kirch. 2,159,742; May 23.
Electric connector. M. M. Kauffman. 2,159,660; May 23.
Electric furnace. F. W. Atkinson, D. Kleist, G. Slayter, J. H. Thomas, and G. M. Lannan. 2,159,361; May 23.
Electric ozone generator. J. M. Daily. 2,159,206; May 23.
Electric plug. N. Chirelstein. 2,159,938–9; May 23.
Electric plug. G. Eaton. 2,159,139; May 23.
Electric switch. I. E. McCabe. 2,159,392; May 23.
Electrical apparatus. J. W. Allen. 2,159,120; May 23.
Electrical connector. L. Walter. 2,159,064; May 23.
Electrical control and connection means. H. A. Douglas. 2,159,076; May 23.
Electrical coupling. H. J. Blakeslee. 2,159,757; May 23.
Electrical device. V. K. Zworykin. 2,159,937; May 23.
Electrical switch. H. J. Crabbs. 2,159,884; May 23.
Electrically heated container. F. R. Lacy, Jr. 2,159,876; May 23.
Electrocuting trap. E. A. Lindsley. 2,159,618; May 23.
Electrode for pool tubes. Starting. H. E. Rowe. 2,159,770; May 23.
Electrode, Self-baking. M. O. Sem. 2,159,183; May 23.
Electromagnetic control device. J. D. West. 2,159,610; May 23.
Electron discharge device. J. H. de Boer. 2,159,946; May 23.
Electron discharge device. J. L. H. Jonker and B. O. M. Gali. 2,159,765; May 23.
Electron discharge device. G. Liebich. 2,159,767; May 23.
Electron emitter and making it, Secondary. C. F. Veenemans, E. H. Löpp, and H. Bruining. 2,159,774; May 23.
Electron multiplier. H. W. Langenwalter and E. Ruska. 2,159,529; May 23.
Electron ray tube. L. Schiff. 2,159,712; May 23.
Emptying device and method. E. R. Alling. 2,159,000; May 23.
Emulsions, Method and apparatus for treating. H. Wolfe. 2,159,682; May 23.
Engine: *See*—
Diesel engine. Radial engine.
Internal combustion engine. Rotary engine.
Engine. L. M. Beall and F. P. Connors. 2,159,072; May 23.
Engine. R. K. Lee. 2,159,331; May 23.
Engine frame construction. E. Chapman. 2,159,006; May 23.
Engine valve, Internal combustion. H. Wilti. 2,159,607; May 23.
Envelope. J. J. Ormond. 2,159,957; May 23.
Envelope opening machine. E. J. Dummer and A. Gay. 2,159,260; May 23.
Esters of cyclic alcohol. L. P. Kyrides. 2,159,594; May 23.
Ethers, Making low viscosity cellulose. R. D. Freeman and M. J. Roberts. 2,159,375–7; May 23.
Ethers of 1,3-dihydroxy-isobutane and 1-chloro-3-hydroxy-isobutane. G. H. Coleman and G. V. Moore. 2,159,364; May 23.
Ethers, Stabilization of cellulose. S. L. Bass, H. N. Fenn, and F. C. Peterson. 2,159,367; May 23.
Ethers, Stabilization of cellulose. F. C. Peterson and H. N. Fenn. 2,159,399; May 23.
Ethyl cellulose-nitrocellulose composition. T. A. Kauppi. 2,159,384; May 23.
Evaporator, Multistage. H. I. Waterman and C. van Vlodrop. 2,159,303; May 23.
Excavating implement tooth. T. A. Ratkowski. 2,159,104; May 23.
Exposure meter. L. H. Brown. 2,159,202; May 23.
Extension key chain. N. N. Okun. 2,159,223; May 23.
Extractor for tightly packaged articles. D. T. Terrel. 2,159,459; May 23.
Fabric: *See*—
Bias woven fabric. Warp knit fabric.
Fabrics resistant to shrinkage, Producing wash-fast sized. K. Zwicky and F. Brunner. 2,159,875; May 23.

Fastener: *See*—
License plate fastener. Tag fastener.
Fastener stud, Snap. R. O. Chaffee. 2,159,363; May 23.
Fastening device. G. A. Tinnerman. 2,159,573; May 23.
Fats into soap and glycerin, Continuous process for converting saponifiable. V. Mills. 2,159,397; May 23.
Faucet. S. Samaras. 2,159,452; May 23.
Feed finger for screw machines. O. Klute. 2,159,388; May 23.
Feeder for pulverulent materials. M. Vogel-Jorgensen. 2,159,239; May 23.
Feeding mechanism, Continuous. J. E. Hicks. 2,159,851; May 23.
Feeding mechanism for plastic extrusion molding machines. I. B. Lawyer. 2,159,559; May 23.
Ferrules and tool shanks, Making integral. J. G. Jackson. 2,159,329; May 23.
Fertilizer and seed planter. A. T. Brunner. 2,159,652; May 23.
Fertilizing device. A. E. Currie. 2,159,321; May 23.
Fibrous or cellular material, Method and apparatus for digesting. J. J. de la Roza, Sr. 2,159,258; May 23.
Film processing tank. L. R. Fink. 2,159,476; May 23.
Filter: *See*—
Metal plate filter.
Filter protection. C. W. Nessell. 2,159,951; May 23.
Firearm. C. C. Loomis. 2,159,485; May 23.
Firearm, Automatic. M. Birkigt. 2,159,126–7; May 23.
Firearm hammer. D. W. King. 2,159,527; May 23.
Fire extinguisher. P. G. MacGregor. 2,159,168; May 23.
Fish lure. K. B. Sage. 2,159,230; May 23.
Fishing lure. V. W. Leusch and H. P. Gibson. 2,159,591; May 23.
Fishing rod. H. H. Harsted. 2,159,795; May 23.
Fixer for permanent catheters. I. Gansel. 2,159,947; May 23.
Flask, Dental. W. D. Kirby. 2,159,437; May 23.
Fluffing machine. F. B. Hirsch. 2,159,950; May 23.
Fluid dispensing device. W. A. Ramsay. 2,159,490; May 23.
Fluid meter. F. W. Hanks. 2,159,892; May 23.
Fluid mixing valve. F. C. Leonard. 2,159,033; May 23.
Fluid pressure brake. C. C. Farmer. 2,159,787–8; May 23.
Fluid pressure brake. E. E. Hewitt. 2,159,797; May 23.
Fluids, Apparatus for controlling the temperature of. C. and F. Danuser. 2,159,257; May 23.
Foldable slicing board. J. M. Wilson. 2,159,945; May 23.
Folding box. R. W. Hoag. 2,159,378; May 23.
Follower for vertical files. C. F. Wolters. 2,159,415; May 23.
Form separator mechanism. R. Minkow. 2,159,285; May 23.
Forms for intaglio printing, Photomechanical manufacture of printing. J. Görig. 2,159,588; May 23.
$\Delta^{4,5}$-unsaturated androstene compound and making same. L. Ruzicka. 2,159,569; May 23.
Frequency analyzer. E. Freystedt and F. Bath. 2,159,790; May 23.
Fruit and other product washing machine. H. C. Lisle. 2,159,619; May 23.
Fruit, Method of and apparatus for removing free water adhering to the outer surfaces of whole fresh. H. and G. C. Paxton. 2,159,046; May 23.
Fruit, Method of and apparatus for removing surface moisture from rollable fresh whole fruit. H. and G. C. Paxton. 2,159,047; May 23.
Fuel control system. S. G. Down. 2,159,785; May 23.
Fuel injection mechanism. O. L. Starr and G. W. Lewis. 2,159,360; May 23.
Fuels, Production of motor. M. Mueller-Cunradi and R. Uloth. 2,159,175; May 23.
Furnace: *See*—
Electric furnace. Reduction furnace.
Oven furnace. Sectional furnace.
Furnace for melting metals, Electric. R. Mautsch. 2,159,169; May 23.
Furniture, Folding. I. L. Rogers. 2,159,228; May 23.
Fuse. J. E. Hagendorn and J. Vervueren. 2,159,083; May 23.
Fuse cut-out, Indicating. E. M. Meyer. 2,159,039; May 23.
Fuze heads for electrical firing, Manufacture of. L. Rubenstein and W. Taylor. 2,159,229; May 23.
Galvanometer. F. B. Anderson. 2,159,775; May 23.
Game and apparatus therefor. J. Y. Morris. 2,159,174; May 23.
Game, Card. E. T. McNaney. 2,159,563; May 23.
Garment clamp, Laundry press. S. Marvin. 2,159,667; May 23.
Gas mixing apparatus. E. L. Anderson. 2,159,495; May 23.
Gas-recording apparatus, Chronological. C. M. Hyle. 2,159,380; May 23.
Gases, Promoting and controlling the polymerization of hydrocarbon. P. A. Maschwitz. 2,159,746; May 23.
Gasket and binding therefor. H. Goetze. 2,159,355; May 23.
Gauge: *See*—
Wheel-aligning gauge.
Gauging apparatus. L. F. Poock and W. F. Aller. 2,159,343; May 23.
Gear: *See*—
Draft gear. Steering gear.
Driving gear.
Hydraulic transmission gear.
Gear having an automatically variable transmission ratio, Transmission. A. Vincenzoni. 2,159,462; May 23.
Gear pump. G. F. Magiott. 2,159,744; May 23.
Gear shifting means. R. Gambardella. 2,159,846; May 23.
Generator: *See*—
Electric ozone generator. Wind propelled generator.
Glass, Process and apparatus for making safety. E. H. Haux and E. L. Fix. 2,159,630; May 23.
Glass rack. W. Owen. 2,159,672; May 23.
Glow discharge device. H. E. Mendenhall. 2,159,747; May 23.
Glue applying machine. E. A. Petersen. 2,159,674; May 23.
Golf ball holder. J. Armstrong. 2,159,122; May 23.
Golf club or the like. W. E. Whitney. 2,159,579; May 23.
Golf tee. T. A. Hansen. 2,159,893; May 23.
Governor control mechanism. E. McCormick. 2,159,283; May 23.
Governor, Engine. O. Schilling. 2,159,863; May 23.
Gravity measurements, Apparatus for making. K. Hartley. 2,159,082; May 23.
Greenhouse. E. Gast. 2,159,735; May 23.
Ground-working implement. J. Morkoski. 2,159,669; May 23.
Guard, Dust. R. R. Stevens. 2,159,825; May 23.
Guide. A. N. Kettner. 2,159,386; May 23.
Guiding and backing means for automobile trailers. A. M. Wright. 2,159,721; May 23.
Gumming machine. G. W. von Hofe. 2,159,641; May 23.
Gyroscope. R. Alkan. 2,159,118; May 23.
Gyroscopic navigation instrument. D. G. K. Moss. 2,159,099; May 23.
Hair curling. R. P. Burns. 2,159,131; May 23.
Hair waving device. J. Metz. 2,159,358; May 23.
Handle: *See*—
Utensil handle.
Handle construction for sadirons and the like. H. A. Smith. 2,159,455; May 23.
Handle for oars, cranks, and the like. J. J. Liss. 2,159,093; May 23.
Hanger: *See*—
Broom and mop hanger.
Hanger. E. A. Wert. 2,159,870; May 23.
Harvester bag. E. H. Allen. 2,158,999; May 23.
Hat. L. O. Wisman. 2,159,681; May 23.
Headlight, Automobile. E. Waage and K. E. Lindhagen. 2,159,464; May 23.
Heat exchange apparatus. J. T. Voorheis. 2,159,463; May 23.
Heat, Method and apparatus for detecting. V. K. Zworykin and L. Malter 2,159,755; May 23.
Heat treating apparatus. K. H. Keller. 2,159,800; May 23.
Heater: *See*—
Wall gas heater. Water heater.
Heater attachment for ranges. H. Honer. 2,159,156; May 23.
Heating and hot water supply system, Domestic. W. R. Miller. 2,159,284; May 23.
Heel and quarter portions of boots and shoes, Preparing and premolding. B. F., L. L., Jr., and A. F. Hartwell. 2,159,762; May 23.
Heel, Shoe. J. Palley. 2,159,943; May 23.
Hinge, as for tables, Leg. H. L. McPherson. 2,159,564; May 23.
Hitch, Tractor. G. W. Todd. 2,159,460; May 23.
Hitch, Trailer. W. E. Bush. 2,159,253; May 23.
Hoist, Oil well. J. E. Brantly. 2,159,250; May 23.
Holder: *See*—
Certificate holder. Golf ball holder.
Coin holder. Mop holder.
Holder and dispenser, Paper roll. L. H. McClintock and N. B. Currier. 2,159,443; May 23.
Hopper construction. A. E. W. Johnson and G. M. Kriegbaum. 2,159,659; May 23.
Horn, Pneumatic. C. S. Kelley. 2,159,801; May 23.
Hot top. A. C. Estep. 2,159,374; May 23.
House, Chicken. L. P. Wright. 2,159,924; May 23.
Hub, Disk chart. P. F. K. Erbguth. 2,159,504; May 23.
Huller, Double action nut. W. C. Anderson. 2,159,307; May 23.
Hydraulic clutch. J. T. Doty. 2,159,137; May 23.
Hydraulic drill column. A. R. Lawrence. 2,159,092; May 23.
Hydraulic machine. E. E. Guinness. 2,159,941; May 23.
Hydraulic transmission gear. H. Föttinger. 2,159,143; May 23.
Hydrocarbons and their derivatives containing oxygen, Production of valuable. F. Duftschmid, E. Linckh, and F. Winkler. 2,159,077; May 23.
Hydrocarbons, Concentrating. F. E. Frey. 2,159,434; May 23.
Hydrocarbons from carbon monoxide and hydrogen, Production of. J. Eckell and G. Ritter. 2,159,140; May 23.
Hydrocarbons, Production of liquid. H. Haeuber and J. Hirschbeck. 2,159,148; May 23.

Hydrogen-cooled machine with gland seals. C. C. Sterrett. 2,159,057; May 23.
Ice cream sundae. W. H. Frederickson. 2,159,761; May 23.
Ice removal, Automatic. K. S. Tyler. 2,159,186; May 23.
Ignition mechanism. R. M. Heintz. 2,159,150; May 23.
Image projection cabinet. H. G. Evans and B. J. Kleerup. 2,159,614; May 23.
Image projection device. B. J. Kleerup. 2,159,616; May 23.
Indicating apparatus. P. Horinstein. 2,159,328; May 23.
Indicating device. W. E. Newman. 2,159,749; May 23.
Indicator: *See*—
Liquid content indicator. Shaft speed indicator.
Liquid level indicator. Tuning indicator.
Rate of climb indicator.
Indicator and electrical circuit controller, Combined. M. Klein and B. Willach. 2,159,702; May 23.
Indicator for suction cleaners. H. B. White. 2,159,112; May 23.
Induction motor, High power factor. C. Macmillan. 2,159,768; May 23.
Inductive interference, Neutralization of. W. D. Cannon. 2,159,927; May 23.
Inhaler, Nasal. J. H. Tobler. 2,159,111; May 23.
Insecticidal repellant. J. R. Cross. 2,159,550; May 23.
Insecticide. W. F. Hester. 2,159,025; May 23.
Insecticide. G. Poretto. 2,159,953; May 23.
Insigne insert clip. C. E. Marshall. 2,159,745; May 23.
Insulating bat. C. F. Johnson. 2,159,028; May 23.
Insulating bat. A. D. Saborsky. 2,159,053; May 23.
Insulating structural board. A. H. Tashjian. 2,159,300; May 23.
Integrator. M. M. Borden. 2,159,882; May 23.
Internal combustion engine, Portable. D. R. Clarke. 2,159,256; May 23.
Iron: *See*—
Soldering iron.
Iron and temperature control and indicator therefor, Waffle. A. M. Young. 2,159,068; May 23.
Ironing table. G. W. Lewis. 2,159,662; May 23.
Joint: *See*—
Pipe joint.
Joint for sheet metal roofing. E. M. Delk. 2,159,136; May 23.
Joints, Apparatus for use in forming Pittsburgh. G. E. Demmin. 2,159,784; May 23.
Kettle, Combination deep fat frying. F. X. Welman. 2,159,578; May 23.
Key check and rack. A. Drummond. 2,159,322; May 23.
Keyhole cover. R. T. White. 2,159,305; May 23.
Kiln, Portable. C. S. Bang. 2,159,310; May 23.
Kit, First aid. H. McDonough. 2,159,904; May 23.
Knife, Pocket. E. Hyatt. 2,159,798; May 23.
Knitting machine. W. D. Gorman. 2,159,266; May 23.
Knitting machine. R. H. Lawson and W. L. Smith, Jr. 2,159,942; May 23.
Knob fastener installation and fastener for the same. H. J. Murphy. 2,159,446; May 23.
Lamp and making the same, Electric. W. J. Geiger and A. T. Gaskill. 2,159,736; May 23.
Lamp and similar devices, Electric. W. Hagen, W. Thouret, and J. Kern. 2,159,794; May 23.
Lamp or similar device, Electric. J. J. Malloy. 2,159,812; May 23.
Lamp structure. N. P. Worden and C. F. Foley. 2,159,871; May 23.
Landing gear for amphibian airplanes. J. G. Taylor, J. A. Roche, and O. F. Spevacek. 2,159,058; May 23.
Lapping machine. F. H. Markwick and L. F. Poock. 2,159,336; May 23.
Lasting machine. H. Müller and E. Sauer. 2,159,706; May 23.
Latch: *See*—
Door latch. Locking door latch.
Lead locating means and applying same. J. W. Hassee. 2,159,269; May 23.
Leather manufacture, Artificial. M. O. Schur. 2,159,639; May 23.
Lens grinding and polishing machine. E. M. Long. 2,159,620; May 23.
Lens, Variable equivalent focal length. L. L. Mellor and A. Zaugg. 2,159,394; May 23.
Lenco-indigo, Preparation of. N. Lamb. 2,159,930; May 23.
Lever for use as a walking beam or the like. W. H. Scales. 2,159,955; May 23.
License plate fastener. C. E. Shoup. 2,159,454; May 23.
License plate lock. H. C. Christ. 2,159,254; May 23.
Light: *See*—
Signal light.
Lighter. H. Negbaur. 2,159,769; May 23.
Lighting unit mounting. A. N. Taylor and N. P. Worden. 2,159,868; May 23.
Liner, Garbage can. E. R. Werdin. 2,159,192; May 23.
Lingerie pin. P. F. Starr. 2,159,572; May 23.
Link or strut. J. M. Nickelsen. 2,159,859; May 23.
Lipstick device. J. L. Younghusband. 2,159,872–3; May 23.
Liquid content indicator. H. S. Polin. 2,159,531; May 23.
Liquid dispensing apparatus. R. H. Arnold, W. G. Polhamus, and H. Somervell. 2,159,625; May 23.
Liquid dispensing apparatus. H. L. Spaunburg, E. Wild, and O. Wild, Jr. 2,159,109; May 23.
Liquid fuel burner. W. B. Garner and H. R. Carter. 2,159,847; May 23.
Liquid level indicator. L. W. Kinney, Jr. 2,159,275; May 23.
Liquids, Apparatus for distilling. A. R. Nevitt. 2,159,566; May 23.
Liquids or moist substances, Apparatus for desiccating or drying. J. Brabuk. 2,159,248; May 23.
Liquors, Utilization of the heat content of hot residual. B. Kranz. 2,159,899; May 23.
Loading machine. E. B. Royle. 2,159,180; May 23.
Lock: *See*—
Automatic load lock. Nut lock.
Door lock. Sash lock.
License plate lock.
Locking door latch. C. E. Anderson. 2,159,581; May 23.
Locomotive tender. E. E. Hicken. 2,159,738; May 23.
Locomotives, System of drafting. F. H. C. Coppus. 2,159,472; May 23.
Logging apparatus, Electrical. E. Babcock. 2,159,418; May 23.
Loom. G. Wiget. 2,159,828; May 23.
Lubricants, Manufacture of. G. M. McNulty and E. W. Adams. 2,159,220; May 23.
Lubricator. F. S. Focht. 2,159,656; May 23.
Machine for applying pressure to shoe bottoms. J. T. Lancaster. 2,159,031; May 23.
Machine for coating golf balls or the like. C. W. Haynes. 2,159,850; May 23.
Machine for fastening annular sheet metal articles. F. H. Le Jeune and J. E. Copeland. 2,159,900; May 23.
Machine for making cross-bottom paper bags. B. A. E. Johnson. 2,159,853; May 23.
Machine for mixing, homogenizing, and dispersing purposes. O. F. Neltzke. 2,159,670; May 23.
Machine-set type composition, Production of. W. Wigg. 2,159,492; May 23.
Machine tool. L. E. Godfriaux. 2,159,207; May 23.
Magnesium, Recovery of. P. Balz. 2,159,878; May 23.
Magnetron system for simultaneous transmission and reception. E. Gerhard. 2,159,478; May 23.
Manifolding. C. W. Brenn. 2,159,500; May 23.
Manifolding machine. C. W. Brenn. 2,159,501; May 23.
Marker, Reflecting. H. W. Stoddard. 2,159,458; May 23.
Match packet. R. S. Pullen. 2,159,103; May 23.
Material and preparing same, Cellulosic. A. W. Staudt. 2,159,108; May 23.
Material, Making moistureproof. A. Hershberger. 2,159,152; May 23.
Material, Preparation of an enzymic. A. Schultz, L. Atkin, and C. N. Frey. 2,159,678; May 23.
Material, Reducing. J. E. Kennedy. 2,159,272; May 23.
Material spreading machine, Road. C. L. George. 2,159,554; May 23.
Materials, Acetylating cellulose acetate, Textile. H. Dreyfus. 2,159,012; May 23.
Materials, Manufacture of artificial. H. Dreyfus. 2,159,014–16; May 23.
Materials, Manufacture of artificial. R. W. Moncrieff and F. B. Hill. 2,159,097; May 23.
Materials, Treating textile. W. Whitehead. 2,159,113; May 23.
Matrix transfer. D. Diamond. 2,159,075; May 23.
Measuring and control apparatus. C. B. Moore. 2,159,877; May 23.
Measuring instrument. F. H. Markwick. 2,159,335; May 23.
Meat-scoring machine. J. A. Voris. 2,159,730; May 23.
Membrane, Perforated. J. S. Parkinson. 2,159,488; May 23.
Merchandise display, Flexed-back. N. Snelling. 2,159,679; May 23.
Merchandise, Loading and transporting. R. V. Sanford. 2,159,622; May 23.
Metal and sheet metal articles readily severable, Rendering sheet. 2,159,325; May 23.
Metal, Apparatus for coating. B. R. Shover. 2,159,297; May 23.
Metal flanging apparatus, Sheet. C. R. Schlicht. 2,159,771; May 23.
Metal into shotting, Disintegrating. J. F. Ervin. 2,159,433; May 23.
Metal members, Handling and working. J. B. Orr, Jr. 2,159,043; May 23.
Metal plate filter. A. M. Babitch. 2,159,196; May 23.
Metal stock, Manufacture of. L. H. Ashmore. 2,159,002; May 23.
Metals, particularly of magnesium, Apparatus for the thermal production of volatilizable. H. Seliger, O. Bretschneider, B. Hubald, W. Krüger, and G. Trugilitzka. 2,159,910; May 23.
Metallic composition. F. R. Hensel. 2,159,763; May 23.
Metalworking machine. F. H. Le Jeune. 2,159,901; May 23.
Meter: *See*—
Exposure meter. Fluid meter.
Mill mandrel, Rolling. R. J. Anater. 2,159,123; May 23.
Mixer: *See*—
Cement mixer. Thermostatic water mixer.
Concrete mixer.
Mixing device. N. Rudnick. 2,159,711; May 23.

Mixing or dissolving apparatus, etc. G. MacLean. 2,159,856; May 23.
Modulating system. E. B. Ferrell. 2,159,020; May 23.
Moistener for cigar shapers. W. J. Brophy. 2,159,128; May 23.
Moistureproofing. A. Hershberger. 2,159,151; May 23.
Molding machine and mold for the centrifugal casting of annular bodies. W. Bremicker. 2,159,073; May 23.
Monoarylides of aromatic dicarboxylic acid halides. W. Schumacher and P. Heimke. 2,159,605; May 23.
Mop holder. J. and G. Bundenthal and W. D. Kimpton. 2,159,350; May 23.
Mops, Cross head for. J. Glover. 2,159,145; May 23.
Motion damping mechanism. J. W. Watson. 2,159,919; May 23.
Motion device, Lateral. J. C. Maris. 2,159,813; May 23.
Motor: *See*—
Induction motor. Pressure fluid motor.
Motor or engine, Convertible internal combustion liquid fuel. E. L. Osborne. 2,159,224; May 23.
Motor vehicle. R. K. Lee. 2,159,332; May 23.
Motor vehicle. F. W. Slack. 2,159,344; May 23.
Motors to a vehicle truck, Fixing electric. M. E. J. H. Bikar. 2,159,584; May 23.
Mounting for fire extinguishers. P. Evans. 2,159,889; May 23.
Musical instrument. A. Rose. 2,159,491; May 23.
Navigational and drafting instrument. L. M. McCluskey. 2,159,562; May 23.
Network Transmission modifying. Al Alford. 2,159,648; May 23.
Nickel and nickel alloys, Improving the workability of. L. B. Pfeil. 2,159,048; May 23.
Nickel carbonyl, Process relating to the production of. A. E. Wallis. 2,159,412; May 23.
N-nitroaryl polyhydroxy alkyl amino compounds and preparing the same. W. E. Lawson and C. P. Spaeth. 2,159,804; May 23.
Noise limiter circuit, Automatic. S. W. Seeley. 2,159,822; May 23.
Nondetonating composition, Gas-producing. J. Taylor. 2,159,234; May 23.
Nozzle, Suction. J. F. R. Karlström. 2,159,164; May 23.
Nut lock. W. F. Horsch and J. M. Thompson. 2,159,160; May 23.
Objects, Apparatus for dipping. W. H. Kopitke. 2,159,091; May 23.
Oil burner. R. E. and M. Wilcox. 2,159,414; May 23.
Oil emulsifier, Spray. A. E. Allum, Jr. 2,159,611; May 23.
Oil temperature regulating device. F. M. Young and E. Witzel. 2,159,468; May 23.
Oil well tool. J. E. Brantly. 2,159,249; May 23.
Oils, Cracking mineral. H. M. Corrough. 2,159,502; May 23.
Oils, Treating mineral. W. B. McCluer and M. R. Fenske. 2,159,444; May 23.
Operating mechanism for vehicle dumping bodies. H. A. Cederstrom. 2,159,470; May 23.
Ores, Disintegration of barytes. C. W. Price. 2,159,909; May 23.
Organ, Electric. L. Hammond. 2,159,505; May 23.
Oscillator. D. L. Plaistowe and D. J. Fewings. 2,159,818; May 23.
Oscillator, Absorption. P. T. Farnsworth. 2,159,521; May 23.
Oscillator for multiple wave band receivers. J. D. Reid. 2,159,105; May 23.
Osteopathic apparatus for treatment of the back. D. B. Catlin. 2,159,654; May 23.
Oven furnace. W. R. Hones. 2,159,480; May 23.
Oven, Under-fired coke. N. M. Philipsen. 2,159,359; May 23.
Package and making the same. H. F. Waters. 2,159,835; May 23.
Package of abrasive strips. R. T. Pitt. 2,159,634; May 23.
Packing, Labyrinth. A. J. Larrecq. 2,159,766; May 23.
Pad: *See*—
Desk pad.
Padlock, Permutation. M. Quintal. 2,159,291; May 23.
Paper for nitration. G. A. Richter. 2,159,675; May 23.
Pectin products, Making. C. W. Wilson. 2,159,194; May 23.
Pens, Manufacture of writing. L. H. Ashmore. 2,159,003; May 23.
Petroleum emulsions, Breaking oil-in-water type. C. M. Blair, Jr. 2,159,312; May 23.
Petroleum emulsions, Breaking oil-in-water type. C. M. Blair, Jr. 2,159,313; May 23.
pH value of solutions, Varying the. R. E. Briggs. 2,159,074; May 23.
Phase modulation. G. L. Usselman. 2,159,237–8; May 23.
Philatelic device. R. Mayer. 2,159,486; May 23.
Phonograph. P. H. Smyth, Jr. 2,159,832–4; May 23.
Phonograph, Automatic. K. M. Alm. 2,159,836; May 23.
Phosphate coating from a surface, Removing a. R. P. Durham. 2,159,261; May 23.
Photographic emulsion. C. E. K. Mees. 2,159,037–8; May 23.
Photographic emulsion. C. E. K. Mees. 2,159,565; May 23.
Photographic images. Production of composite. H. D. Murray and D. A. Spencer. 2,159,600; May 23.
Picture-translating tube. M. Ploke. 2,159,568; May 23.
Pictures in natural colors in accordance with the three-color principle, Production of photographic. M. Beauvais. 2,159,683; May 23.
Pigment treatment process. C. K. Sloan and G. D. Patterson. 2,159,055; May 23.
Pillar-light assembly. A. W. Prance. 2,159,532; May 23.
Pin: *See*—
Lingerie pin.
Pinking machine. V. J. Sigoda. 2,159,716–7; May 23.
Pipe fitting. J. J. Leonardo. 2,159,811; May 23.
Pipe joint. M. Yanagi. 2,159,242; May 23.
Pipes, Device for shouldering well drill. F. Morgan. 2,159,287; May 23.
Piston. C. Retschy. 2,159,402; May 23.
Plant for pulverizing and burning coal. B. Graemiger. 2,159,849; May 23.
Plaster from plate glass surfacing tables, Apparatus for removing. J. D. McLeod and H. A. Reynolds. 2,159,631; May 23.
Plastic sheets, Softening. J. F. T. Berliner. 2,159,926; May 23.
Plate fastening device. J. De Mooy. 2,159,655; May 23.
Plow, Floating. W. W. Swearinger. 2,159,867; May 23.
Plug: *See*—
Electric plug. Spark plug.
Pneumatic control apparatus. A. Dewandre. 2,159,879; May 23.
Popper, Electric corn. S. A. Platt. 2,159,489; May 23.
Post for tennis nets. S. H. Petersen. 2,159,633; May 23.
Powder. Manufacture of smokeless. E. S. Goodyear. 2,159,208; May 23.
Powder puff. E. L. and E. A. Reiffert. 2,159,227; May 23.
Power plant. G. Diedrich. 2,159,758; May 23.
Power transmission. W. T. Dunn. 2,159,426–7; May 23.
Power transmission. W. T. Dunn, A. J. Syrovy, and R. T. Bucy. 2,159,429; May 23.
Power transmission. E. R. Maurer and J. H. Coyne. 2,159,442; May 23.
Power transmission. C. A. Neracher and T. Invelli. 2,159,339; May 23.
Power transmission, Motor vehicle. C. Breer. 2,159,316; May 23.
Power wheel. J. E. Carlin. 2,159,653; May 23.
Pressing apparatus for articles such as valve stems. O. F. Homeier. 2,159,852; May 23.
Pressure fluid motor. E. H. Shaff. 2,159,232; May 23.
Pressure fluid motor. W. H. Wineman. 2,159,467; May 23.
Printing method and apparatus. I. F. Niles. 2,159,447; May 23.
Protector: *See*—
Ear and forehead protector. Thread protector.
Protector for electric circuits. H. T. Bussmann. 2,159,423; May 23.
Psychrometer, Hand aspirating. R. R. Chappell and K. E. Whitney. 2,159,133; May 23.
Puller: *See*—
Cylinder head puller.
Protector for electric circuits. H. T. Bussman. 2,159,317; May 23.
Pump: *See*—
Gear pump. Rotary pump.
Pump. G. A. Humason. 2,159,526; May 23.
Pump. G. A. Wahlmark. 2,159,720; May 23.
Pump for internal combustion engines, Fuel injection. H. R. Ricardo. 2,159,177; May 23.
Pump or motor, Hydraulic. E. K. Benedek. 2,159,244; May 23.
Pump or motor, Hydraulic. W. Ernst. 2,159,553; May 23.
Pump or motor, Variable displacement. E. K. Benedek. 2,159,245; May 23.
Pumping apparatus. E. A. Ringgenberg. 2,159,179; May 23.
Pupillary distances, Method of and apparatus for determining. O. W. Lee. 2,159,277; May 23.
Quartz piezoelectric element. H. W. N. Hawk. 2,159,796; May 23.
Rack: *See*—
Display rack. Glass rack.
Radial engine, U-type two-cycle. R. M. Hazen. 2,159,209; May 23.
Radiator cooling apparatus, Automobile. W. L. Morrison. 2,159,599; May 23.
Radiator inlet valve, Automobile. B. Friedman. 2,159,477; May 23.
Radiator testing and repair apparatus. C. T. Walker 2,159,063; May 23.
Radio receiver-hearing aid unit, Combination. J. J. Morey. 2,159,632; May 23.
Railing for boat hatches, Protective. H. S. Lewis. 2,159,902; May 23.
Railway highway-vehicle carrier. G. S. Goodwin and P. Kass. 2,159,479; May 23.
Range, Cooking. J. A. Underwood. 2,159,575; May 23
Range finder. D. P. Bennett. 2,159,199; May 23.

Rate of climb indicator. P. W. Koch. 2,159,703; May 23.
Rattle. A. Zadek. 2,159,874; May 23.
Razor, Safety. J. Long. 2,149,560; May 23.
Receptacle: *See*—
Bait receptacle.
Receptacle and closure therefor. W. Lockhart. 2,159,390; May 23.
Recording mechanism for vehicles. J. M. Markley, Jr. 2,159,727; May 23.
Recording system. L. C. Rayment. 2,159,533; May 23.
Rectifier installation, Electrical. S. A. Stevens. 2,159,537; May 23.
Reduction furnace. W. E. Moore. 2,159,286; May 23.
Reel. G. A. Boswin. 2,159,469; May 23.
Reel construction. A. A. Bureau. 2,158,994; May 23.
Refrigerating apparatus. L. S. Cooper. 2,159,928; May 23.
Refrigerating apparatus. M. W. Kenney. 2,159,898; May 23.
Refrigerating apparatus. R. K. Miller and R. R. Candor. 2,159,748; May 23.
Refrigerating system. L. H. Vold. 2,159,187; May 23.
Refrigerating unit, Portable. N. Morris. 2,159,907; May 23.
Refrigeration apparatus. W. B. Anderson. 2,159,417; May 23.
Refrigeration method and apparatus. R. T. Brizzolara. 2,159,251; May 23.
Refrigerator. J. H. Ward. 2,159,608; May 23.
Refrigerator unit. M. Kallscher. 2,159,592; May 23.
Register installation, Free Wheeling. J. H. Van Wagenen. 2,159,915; May 23.
Regulator: *See*—
Pulp consistency regulator.
Relaxation oscillation generator. M. Geiger. 2,159,792; May 23.
Relay. M. A. Babb and S. J. A. M. Bagno. 2,159,837; May 23.
Reminder device. W. L. Wagner. 2,159,917; May 23.
Resins, Stabilization of polyvinyl acetal. C. R. Fordyce and M. Salo. 2,159,263; May 23.
Resistors, Apparatus for adjusting. H. G. Richter. 2,159,106; May 23.
Resonator, Electromechanical. A. Guerbilsky. 2,159,891; May 23.
Retrieving mechanism. H. Bosch, Jr. 2,159,004; May 23.
Rifle range, Electric. W. P. Falkenberg. 2,159,141; May 23.
Ring: *See*—
Barrel ring.
Roads, Apparatus for building. J. H. Mosel. 2,159,509; May 23.
Roasting, Process and apparatus for. M. M. Jalma and H. Coutinho. 2,159,027; May 23.
Rod: *See*—
Connecting rod. Fishing rod.
Roll bearing. W. C. McBain. 2,159,337; May 23.
Rollers for use in producing profiled sections from sheet metal. E. Penkala. 2,159,290; May 23.
Roof construction, Vehicle. F. E. Dayes. 2,159,783; May 23.
Roofing-truss structure. J. S. Edison. 2,159,589; May 23.
Rotary engine. C. and L. Bartlett. 2,159,544; May 23.
Rotary pump. H. A. Centervall. 2,159,005; May 23.
Rotor, Drop-forged. C. F. Reis. 2,159,820; May 23.
Rotor, Induction motor. W. R. Gorham. 2,159,695; May 23.
Rudder control for aircraft, Automatic. F. Fischer. 2,159,142; May 23.
Safety device for automotive vehicles. C. K. Goldstein. 2,159,078; May 23.
Safety support, Brake beam. H. E. Anderson. 2,159,582; May 23.
Sail, Pocket. F. M. Willard. 2,159,923; May 23.
Sales and service equipment. A. A. Wood. 2,159,925; May 23.
Salt of calcium ascorbate and calcium acetylsalicylate and making same, Double. S. Klein. 2,159,214; May 23.
Sand blasting apparatus. N. J. Quinn. 2,159,051; May 23.
Sand, Foundry. O. L. Jones and J. L. Essex. 2,159,952; May 23.
Sash lock. I. Birman. 2,159,198; May 23.
Sash securing device for opened windows. C. Drucks. 2,159,474; May 23.
Scale box and suspension therefor. F. H. and R. B. Weeks. 2,159,065; May 23.
Scale from and sizing rods and the like, Method of and apparatus for removing. J. S. Lynch. 2,159,561; May 23.
Scraper. C. Le Bleu. 2,159,438; May 23.
Scraper, Wheeled. T. R. Paulsen and H. C. Beitzel. 2,159,045; May 23.
Screen for feeders, Grain. A. C. Lindgren. 2,159,663; May 23.
Scum collector. M. B. Tark. 2,159,409; May 23.
Seacraft. S. Turkovich. 2,159,410; May 23.
Sealing material for vacuum vessels. K. Lenz and E. Woeckel. 2,159,805–10; May 23.
Sealing means for thermocouples. W. K. McCoy. 2,159,705; May 23.
Seat structure. E. B. Morgan. 2,159,098; May 23.
Secondary emitter tube. G. Brauer and E. Ruska. 2,159,519; May 23.
Sectional furnace. A. P. Livar. 2,159,440; May 23.
Separator and wringer, Centrifugal. C. C. Searle. 2,159,536; May 23.
Sewing machine attachment for fixing a permanent crease in garments. D. and S. Segelin. 2,159,713; May 23.
Sewing machine, Lock stitch. N. V. Christensen and H. J. Le Vesconte. 2,159,204; May 23.
Sewing machine, Lock stitch shoe. C. L. Knott. 2,159,166; May 23.
Sewing machine, Multiple needle. J. Brussell. 2,159,252; May 23.
Sewing machines, Folding and pressing attachment for. T. A. Anderson. 2,159,416; May 23.
Sewing machines, Gauge for. E. C. Zabiockl. 2,159,538; May 23.
Sewing mechanism. T. H. De Spain. 2,159,688; May 23.
Shaft speed indicator. R. R. Chappell, R. B. Colt, and R. J. Streb. 2,159,424; May 23.
Shaker and moisture absorbing materials therefor. J. C. McCorkhill. 2,159,171; May 23.
Shaker, Walnut tree. J. D. Berger. 2,159,311; May 23.
Shank stiffener. J. P. Quirk. 2,159,602; May 23.
Sharpener, Adjustable lawn mower. J. L. Davis. 2,159,552; May 23.
Sheet feeding apparatus. H. Gümbel. 2,159,147; May 23.
Sheet feeding device, Automatic. G. Spiess. 2,159,456; May 23.
Shelf, Refrigerator. C. H. Nauert. 2,159,601; May 23.
Shielding arrangement for high frequency transmission systems. P. F. Byrne. 2,159,627; May 23.
Shingle, Vitreous. W. O. Lytle. 2,159,665; May 23.
Shock absorber. E. J. Laugaudin. 2,159,855; May 23.
Shoe fitter device. J. L. Harris. 2,159,525; May 23.
Sifter. T. G. Cecka. 2,159,549; May 23.
Signal light. A. E. Robert. 2,159,636; May 23.
Signal operating device, Electrical. R. Bearss and C. E. Anderson. 2,159,419; May 23.
Signal transmission system. L. G. Abraham. 2,158,993; May 23.
Signaling apparatus, Railway. L. O. Grondahl. 2,159,524; May 23.
Signaling system. S. F. Arbuckle. 2,159,406; May 23.
Signaling system. G. N. Saul. 2,159,751; May 23.
Signaling system, Railway. J. M. Evans. 2,159,324; May 23.
Signaling system, Vehicle. W. J. Morris. 2,159,598; May 23.
Silver halide emulsions, Reversal development of light-sensitive. G. Wilmanns, W. Schneider, and R. Kethur. 2,159,466; May 23.
Siphonage preventer for plumbing systems. R. R. Fox. 2,159,691–2; May 23.
Skating pond spray, Manifold cooled. H. Masbruch. 2,159,508; May 23.
Ski brake. E. W. Burgett. 2,159,130; May 23.
Skiving machine. H. E. Armstrong. 2,159,001; May 23.
Slider for slide fasteners, Locking. O. Killmer. 2,159,387; May 23.
Slug-casting machine. G. P. Kingsbury. 2,159,274; May 23.
Smoker's appliance. G. F. Weiher. 2,159,190; May 23.
Smoking device. C. D. Dye. 2,159,018; May 23.
Sodium aluminate, Making. R. L. Davies. 2,159,843; May 23.
Sodium citrate di-hydrate, Manufacture of. H. H. Holton. 2,159,155; May 23.
Sodium sulphate and the like, Apparatus for recovering anhydrous. H. W. Doennecke, E. W. Douglass, and C. O. Anderson. 2,159,759; May 23.
Soldering device, Electric. L. H. Moulthrop. 2,159,041; May 23.
Soldering iron. L. H. Thomas and F. Kuhn. 2,159,869; May 23.
Sound image on multilayer film. L. D. Mannes and L. Godowsky, Jr. 2,159,280; May 23.
Sound locator receiver. F. R. House. 2,159,481; May 23.
Spark plug. H. F. Fruth. 2,159,791; May 23.
Speed-changing adapter for motion picture cameras. F. Brosch. 2,159,372; May 23.
Speed limiting device. H. M. Schubert. 2,159,405; May 23.
Speedometer, Electric. E. G. Kelly. 2,159,330; May 23.
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Speedometer, Electric. H. W. Norman. 2,159,340; May 23.
Speedometer, Electrical. T. Paul. 2,159,341; May 23.
Speedometer pointer. R. O. Helgeby. 2,159,210; May 23.
Speedometer, Electric. H. M. Norman. 2,159,340; May 23.
Spindle nut tapping machine, Single. H. E. Pruitt. 2,159,708; May 23.
Spinnerettes, Polishing of. W. Martin. 2,159,391; May 23.
Sprayer. P. L. Hines. 2,159,894; May 23.
Spraying apparatus. E. A. Preston. 2,159,400; May 23.
Spring suspension. C. A. Chayne. 2,159,203; May 23.
Spring washer. F. R. McCrudden. 2,159,393; May 23.
Stamp, Marking. D. H. Hardy. 2,159,697; May 23.

Starch applying machine. F. B. Hirsch. 2,159,949; May 23.
Starter for engines. A. H. Abell. 2,159,514; May 23.
Steam boiler. L. W. Heller. 2,159,557; May 23.
Steel, Corrosion resistant. R. Franks. 2,159,725; May 23.
Steel sections, Making. W. S. Brink. 2,159,371; May 23.
Steel, Stainless. R. Franks. 2,159,724; May 23.
Steels, Manufacture of high speed. E. Houdremont and H. Schrader. 2,159,086; May 23.
Steering gear. A. W. Phelps and W. A. Kull. 2,159,225; May 23.
Stem. J. and E. Harris. 2,159,698; May 23.
Stirrup assembly. W. E. Mathews. 2,159,668; May 23.
Stitching machine. J. W. Bedard. 2,159,722; May 23.
Stock-quotation system. H. C. Robinson. 2,159,107; May 23.
Stop mechanism for bar machines. D. H. Montgomery and W. B. Retz. 2,159,398; May 23.
Stop motion device for bread wrapping machines. A. B. Coward. 2,159,135; May 23.
Store front construction. W. Owen. 2,159,673; May 23.
Stove door. H. E. Mills. 2,159,221; May 23.
Strands, Apparatus for coating. E. E. Newton and H. P. Ray. 2,159,222; May 23.
Structural member. H. C. Sahlmann. 2,159,182; May 23.
Stuffing box. J. E. Winters. 2,159,306; May 23.
Suction cleaner. W. H. Kitto. 2,159,701; May 23.
Suction cleaner coupling. R. M. Zacharias. 2,159,116; May 23.
Sugar dispenser. N. L. Dootson. 2,159,259; May 23.
Sulphite waste liquor-phenol-aldehyde condensation products. F. J. Wallace. 2,159,411; May 23.
Sulphur in mineral and other oils, Producing stable solutions of. E. A. Nill. 2,159,908; May 23.
Sunglass attachment for eyeglasses. E. Reichert. 2,159,710; May 23.
Sunshade and tent, Combined. A. A. Betourne. 2,159,309; May 23.
Supercharger. O. R. Lesley. 2,159,278; May 23.
Support: *See*—
Adjustable saddle support. Curtain support.
Safety support.
Support. W. F. Errig and E. S. De Hart. 2,159,786; May 23.
Support for loose leaf binders. N. S. Welk and F. Hocker. 2,159,921; May 23.
Support for pamphlets. M. H. Feiss. 2,159,262; May 23.
Support for plumbing fixtures, Adjustable. W. C. Groeniger. 2,159,021; May 23.
Supporting means, Detachable. H. H. Lowenstein. 2,159,357; May 23.
Supporting surface for mattresses, cushions, and the like. W. H. Chapman. 2,159,520; May 23.
Sweeper and mop, Suction. A. Herman. 2,159,211; May 23.
Switch: *See*—
Compensated switch. Electric switch.
Control switch. Electrical switch.
Drilling machine switch. Thermostatic switch.
Switch and the like, Electric. A. M. Draving and W. I. Ingham. 2,159,369; May 23.
Switch control and indication system. C. W. Bell. 2,159,518; May 23.
Switch mechanism. K. D. Andrews. 2,159,243; May 23.
Switching mechanism. F. S. Denison, W. E. Harrison, and E. M. Miller. 2,159,503; May 23.
Table: *See*—
Bat-forming table. Ironing table.
Tabulating machine. H. T. Livingston. 2,159,094; May 23.
Tachometer. J. E. Bevins. 2,159,125; May 23.
Tag fastener. B. Y. Jacobson. 2,159,026; May 23.
Tamping means. E. W. Austin. 2,159,347; May 23.
Tank. *See*—
Film processing tank.
Tank cap and vent valve. F. F. Rike and H. W. Webb. 2,159,178; May 23.
Tape and the like, Curtain heading. G. F. French. 2,159,734; May 23.
Tape, Curtain heading. G. F. French. 2,159,733; May 23.
Teat element for milking machines. B. V. Orre. 2,159,449; May 23.
Telemetric system. C. J. Weible. 2,159,413; May 23.
Telephone coin-collecting apparatus. A. C. Link. 2,159,216; May 23.
Telephone system. O. D. Grandstaff. 2,159,081; May 23.
Telephone system. W. Pinell. 2,159,101; May 23.
Telephone transmitter. E. G. Danielson. 2,159,628; May 23.
Temperature control. K. Schwebs. 2,159,406; May 23.
Textile and other materials and their production. H. Dreyfus. 2,159,013; May 23.
Thermal treatment of aluminum base alloys. E. H. Dix, Jr., and J. A. Nock, Jr. 2,159,010; May 23.
Thermostatic switch. A. J. Kercher. 2,159,090; May 23.
Thermostatic water mixer. M. O. Snediker. 2,159,819; May 23.
Thread cutting machine. M. W. Anthony. 2,159,308; May 23.
Thread protector. J. Kahn and W. F. Schult. 2,159,929; May 23.
Thresher. A. C. Lindgren. 2,159,664; May 23.
Throttle control. E. Schroedter. 2,159,772; May 23.
Timing mechanism. F. E. Weld. 2,159,920; May 23.
Tin plate, Waxing. W. E. Burns. 2,159,351; May 23.
Tip for cigarettes, Filter. S. Alley. 2,159,121; May 23.
Tip welding method. C. Pfanstiehl. 2,159,707; May 23.
Tile, Making irrigating. W. R. Fleming. 2,159,690; May 23.
Tire chain. G. S. Schmidt. 2,159,831; May 23.
Tobacco leaf feed. R. E. Rundell and J. A. Neumair. 2,159,404; May 23.
Tool: *See*—
Machine tool. Tube joint tool.
Oil well tool.
Tool. L. E. Warnock. 2,159,918; May 23.
Tooth brush. C. H. Seifert. 2,159,295; May 23.
Tooth brush. R. L. Tweedale. 2,159,914; May 23.
Top for soaking pits, Removable. W. T. Dean, 2,159,844; May 23.
Torque wrench. A. I. Dunn. 2,159,354; May 23.
Torque wrench. A. I. Dunn. 2,159,373; May 23.
Toy. F. H. Pierce. 2,159,817; May 23.
Toy, Scissor. W. R. Tuttle and C. W. Stickel. 2,159,060; May 23.
Toy telephone with television effect. H. Bregman. 2,159,830; May 23.
Traffic control system, Centralized. N. D. Preston. 2,159,567; May 23.
Traffic controlling apparatus, Railway. E. M. Allen. 2,159,515; May 23.
Traffic controlling system for railroads, Centralized. R. F. Wells. 2,159,922; May 23.
Trailer construction. J. E. Owen. 2,159,671; May 23.
Trailer control. C. J. Mersereau. 2,159,395; May 23.
Transfer. W. S. Gaylord, Jr. 2,159,693; May 23.
Transfer element for multiple ampules, Controllable. M. Lozier and C. H. Frost. 2,159,217; May 23.
Transmission and coaster brake, Selective speed. C. C. Williams. 2,159,465; May 23.
Transmission, Diversity. A. Alford. 2,159,647; May 23.
Trap: *See*—
Animal trap. Electrocuting trap.
Tree holder. C. Y. Fitzgerald. 2,159,760; May 23.
Trigger construction. L. C. Huck. 2,159,590; May 23.
Trimmer for asparagus stalks. M. Tanzmann. 2,159,299; May 23.
Trimming apparatus, Flash. E. S. Ellis. 2,159,888; May 23.
Truck, Utility. P. E. Hawkins. 2,159,022; May 23.
Tube: *See*—
Electron ray tube. Secondary emitter tube.
Picture-translating tube. Vapor electric tube.
Tube. L. Sarog. 2,159,714; May 23.
Tube joint tool. E. P. Smith. 2,159,185; May 23.
Tuning element for broadcast receiver sets. O. Woldfarth. 2,159,754; May 23.
Tuning indicator. H. A. Wheeler. 2,159,240; May 23.
Tuning indicator circuit. C. N. Kimball and E. W. Wilby. 2,159,802; May 23.
Type composition, Production of machine-set. M. R. Dewhurst. 2,159,473; May 23.
Typographic composing machine. R. C. Elliott. 2,159,475; May 23.
Upholstery padding material. J. A. Howard. 2,159,213; May 23.
Utensil handle. S. A. Platt. 2,159,728; May 23.
Vacuum breaker. W. E. Sloan. 2,159,056; May 23.
Valve: *See*—
Engine valve. Radiator inlet valve.
Fluid mixing valve. Tank cap and vent valve.
Valve and mixing device. W. H. Brush. 2,159,129; May 23.
Valve construction. J. M. Nickelson. 2,159,289; May 23.
Valve converting system, Electric. W. F. Westendorp. 2,159,827; May 23.
Valve for steam heating radiators, Vent. G. Levy. 2,159,484; May 23.
Valve system. S. C. Shipley. 2,159,624; May 23.
Vanity case. W. A. Preisz. 2,159,934; May 23.
Vapor electric tube. R. U. Clark. 2,159,255; May 23.
Variable stroke shaking screen. D. M. Blackburn. 2,159,777; May 23.
Vehicle: *See*—
Motor vehicle.
Vending machine. F. M. Moninger. 2,159,905; May 23.
Ventilating apparatus. R. G. Birkholz. 2,159,498; May 23.
Ventilating unit. D. Tenney. 2,159,913; May 23.
Ventilator, Electric. W. R. Gross. 2,159,696; May 23.
Ventilator mechanism. A. P. Ball. 2,159,516; May 23.
Vibration-damping material. H. H. Nies. 2,159,487; May 23.
Vibration suppressor, Torsional. J. M. Tyler and T. C. Van Degrift. 2,159,235; May 23.
Viscose, Producing. G. A. Richter and H. P. Vannah. 2,159,676; May 23.
Vise. J. H. Williams. 2,159,193; May 23.
Volume control, Automatic. K. A. Chittick. 2,159,780; May 23.
Volume control, Dual action. A. Senauke. 2,159,453; May 23.
Volume control receiver, Automatic. E. Klotz. 2,159,803; May 23.

Volume control system. J. M. Riddle, Jr. 2,159,052; May 23.
Vulcanizing machine. W. J. Baker. 2,159,543; May 23.
Waist construction for trousers. R. Chieffo and A. Rossomando. 2,159,353; May 23.
Wall. R. R. Clark. 2,159,134; May 23.
Wall construction, Brick. H. A. Faber. 2,159,019; May 23.
Wall gas heater. H. W. Hart. 2,159,149; May 23.
Wall structures, Top member for self-contained. G. G. Sharp. 2,159,296; May 23.
Warp knit fabric. K. Kaak. 2,159,615; May 23.
Washer: *See*—
Spring washer.
Washing composition. K. Jochum, H. Geier, and K. Pauser. 2,159,381; May 23.
Water heater. E. S. Stack. 2,159,571; May 23.
Water, Method for prevention of seepage of. B. F. Powell. 2,159,954; May 23.
Wax. F. H. MacLaren. 2,159,218; May 23.
Weaving and weaving device. A. J. Gash. 2,159,265; May 23.
Web, Bituminized. H. W. Greider and G. A. Fasold. 2,159,586; May 23.
Web-marking mechanism. C. D. Knowlton. 2,159,029; May 23.
Webs, Apparatus for making bituminized. H. W. Greider and G. A. Fasold. 2,159,587; May 23.
Welding, Electric. J. E. Trainer, C. Ziegler, C. H. Yeo, and W. S. Jordre. 2,159,059; May 23.
Welding, Electric flash percussive. A. Vang. 2,159,916; May 23.
Welding equipment. H. T. Platz. 2,159,860; May 23.
Well cementing device, Deep. C. E. Strom. 2,159,640; May 23.
Well cleaning device. L. H. Hayward. 2,159,023; May 23.
Well-point attachment, Induced flow. H. G. Hopkins. 2,159,157; May 23.
Wheel: *See*—
Power wheel.
Wheel-aligning gauge. H. P. Harrison. 2,159,084; May 23.
Wheel cover. W. N. Booth. 2,159,881; May 23.
Wheel, Making a vehicle. E. A. Bierwirth and H. J. Kienle. 2,159,880; May 23.
Wheel, Making a. C. W. Sinclair. 2,159,911; May 23.
Wind propelled generator. J. F. Cullin. 2,159,886; May 23.
Winding machine. F. J. Kent. 2,159,385; May 23.
Winding machinery for yarns, threads, ribbons, and the like. W. Pool. 2,159,102; May 23.
Window construction. R. Benzenberg. 2,159,583; May 23.
Window, Double glazed. P. E. Knudsen. 2,159,661; May 23.
Work centering and holding machine. F. Morgan. 2,159,288; May 23.
Work fixture. D. R. Hall. 2,159,267; May 23.
Wrench: *See*—
Die and tap wrench. Torque wrench.
Wringer, Mop. C. B. Greenstreet. 2,159,523; May 23.
Wringer, Mop. J. L. Walters. 2,159,577; May 23.
Yarn, Winding. W. G. Lea. 2,159,032; May 23.
Yarns, fabrics, etc., having a basis of organic derivatives of cellulose, Production of. H. Dreyfus. 2,159,011; May 23.

CLASSIFICATION OF PATENTS

ISSUED MAY 23, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Alaska Pacific Salmon Company, Seattle, Wash. Canned and frozen fish. Serial No. 403,747; May 30. Class 46.

Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Lawn mowers. Serial No. 417,792; May 30. Class 23.

Allis-Chalmers Manufacturing Company, West Allis and Milwaukee, Wis. Pumping machinery. Serial No. 417,739; May 30. Class 23.

American Hair & Felt Company, Chicago, Ill. Synthetic porcelain cement. Serial No. 416,173; May 30. Class 5.

American Institute of Mining and Metallurgical Engineers, Inc., New York, N. Y. Publication. Serial No. 403,351; May 30. Class 38.

American Lecithin Company, Cleveland, Ohio. Preparation for use in baking and bakery products. Serial No. 417,198; May 30. Class 46.

American Maize-Products Company, New York, N. Y. Cereal sugars produced from corn. Serial No. 404,393; May 30. Class 46.

An-Fo Manufacturing Co. (See Rosefield, John B.)

Atlantic Manufacturing Co., Philadelphia, Pa. Bending fixture, milling fixture, flanging chucks, etc. Serial No. 407,219; May 30. Class 23.

BBB Manufacturing Company. (See Bardfield, Max.)

Baldwin Liquors Corporation, New York, N. Y. Whiskeys, brandies, gins, etc. Serial No. 416,988; May 30. Class 49.

Bardfield, Max, doing business as BBB Manufacturing Company, Los Angeles, Calif. Women's, little girls' and misses' wear. Serial No. 413,060; May 30. Class 39.

Bauman, John W., & Son, Sassamansville, Pa. Pipe wrenches. Serial No. 416,791; May 30. Class 23.

Bell Garment Manufacturing Corporation, San Antonio, Tex. Articles of wearing apparel for children. Serial No. 416,678; May 30. Class 39.

Berry Clothing Corporation, New York, N. Y. Clothing. Serial No. 417,079; May 30. Class 39.

Berthelsen, Sarah, doing business as Dentabrite Laboratories, Portland, Oreg. Cleaning powders. Serial No. 415,315; May 30. Class 4.

Bloede, Victor G., Company Incorporated, Baltimore, Md. Paper-sizing composition. Serial No. 418,404; May 30. Class 6.

Blum, Philip, & Company, Inc., Chicago, Ill. Whiskey. Serial No. 418,235; May 30. Class 49.

Bon Marche, The. (See Allied Stores Corporation.)

Borden Company, The, New York, N. Y. Blend of refined sugar, fine cocoa, skim milk, etc. Serial No. 416,792; May 30. Class 46.

Borden Company, The, New York, N. Y. Popped hominy coated with cheese flavoring. Serial No. 417,358; May 30. Class 46.

Buston, Jameson G., doing business as The Sun Rise Bottling Company, Tazewell, Va. Beverage and sirup and extract for making the same. Serial No. 417,741; May 30. Class 45.

Butt, H. E., Grocery Company, Harlingen and Corpus Christi, Tex. Soap chips and cleanser. Serial No. 416,944; May 30. Class 4.

Cade, James E., New York, N. Y. Moving picture films. Serial No. 417,742; May 30. Class 26.

Carr Chemical Co., The. (See Simons, Sidney G.)

Casco Company, The, Canton, Ohio. Laxative. Serial No. 418,397; May 30. Class 6.

Casco Company, The, Canton, Ohio. Antacid. Serial No. 418,398; May 30. Class 6.

Cherry Blossoms Manufacturing Company, St. Louis, Mo. Beverages, and sirups and extracts for making the same. Serial No. 417,745; May 30. Class 45.

Chicauhagha Farms. (See Johnson, Frederick W., & Son.)

Citrus Distributors. (See Moyes, Harold.)

Columbia Winery and Fruit Distilling Co., Inc., Vancouver, Wash. Wine punch. Serial Nos. 416,541-4; May 30. Class 47.

Columbia Winery and Fruit Distilling Co., Inc., Vancouver, Wash. Wine punch. Serial No. 416,546; May 30, Class 47.

Consolidated Decalcomania Corporation, Jamaica, N. Y. Decalcomania transfers. Serial No. 418,034; May 30. Class 38.

Consolidated Electric Lamp Company, Lynn, Mass. Electric soldering irons. Serial No. 411,679; May 30; Class 21.

Consolidated Razor Blade Co., Inc., Jersey City, N. J. Razor blades. Serial No. 416,505; May 30. Class 23.

Continental Optical Company, Inc., Indianapolis, Ind. Ophthalmic blanks and lenses tinted to reduce glare. Serial No. 416,547; May 30. Class 26.

Creole Food Co., Gulfport, Miss. Canned shrimp à la creole; shrimpburger, creole gumbo, etc. Serial No. 414,339; May 30. Class 46.

Curran Corporation, The, Malden, Mass. Liquid cleaning preparation and solvent. Serial No. 417,084; May 30. Class 4.

Cutler, Roger W., Boston, Mass. Fabric driving tapes. Serial No. 417,749; May 30. Class 23.

Del Bono, Salvatore F., Philadelphia, Pa. Newspaper column. Serial No. 417,119; May 30. Class 38.

Delin, August L., Newark, N. J. Golf bag support. Serial No. 418,568; May 30. Class 22.

Dentabrite Laboratories. (See Berthelsen, Sarah.)

Derby Publishing Company, Chicago, Ill. Printed tickets and pamphlets. Serial No. 385,882; May 30. Class 38.

Dietetic Research Laboratories, Inc., Bloomfield, N. J. Preparation of vitamins and minerals. Serial No. 414,289; May 30. Class 6.

Drapesette Necktie Corporation, New York, N. Y. Neckties and cut-out necktie linings. Serial No. 403,584; May 30. Class 39.

Driscoll, Wilmer C., Roanoke, Va. Game. Serial No. 417,750; May 30. Class 22.

Eastern Manufacturing Company, New York, N. Y. Reply card letterheads. Serial No. 413,301; May 30. Class 37.

Eez Company, The. (See Hannan, Willett W.)

Eichmann & Hecht, New York, N. Y. Fabrics. Serial No. 413,823; May 30. Class 42.

Esbjerg Hermetikfabrik A/S, Esbjerg, Denmark. Conserves. Serial No. 412,253; May 30. Class 46.

Famous Foods, Inc., Detroit, Mich. Pretzels, potato chips, and popt corn. Serial No. 412,128; May 30. Class 46.

Fashioncraft, Inc., Cambridge, Mass. Raincoats. Serial No. 413,932; May 30. Class 39.

Field and Flint Co., Brockton, Mass. Shoes. Serial Nos. 417,999–418,000; May 30. Class 39.

Fingles, W. A., Inc., doing business as Majestic Flashing Co., Baltimore, Md. Fibre wall flashing. Serial No. 417,567; May 30. Class 12.

Fox, Samuel, Inc., Philadelphia, Pa. Shoes. Serial No. 416,415; May 30. Class 39.

Fremont Canning Company, doing business as Gerber Products Company, Fremont, Mich. Canned strained cereals. Serial No. 401,930; May 30. Class 46.

Galloway Company, Inc., The, Waterloo, Iowa. Centrifugal cream separators. Serial No. 414,065; May 30. Class 23.

Garco Products Inc., Butler, Pa. Comminuted material embodying silicates. Serial No. 416,322; May 30. Class 1.

Gerber Products Company. (See Fremont Canning Company.)

Gibson Electric Refrigerator Corporation, Greenville, Mich. Electric ranges. Serial No. 417,612; May 30. Class 21.

Gilbert, Martin, Reedley, Fla. Fresh grapes. Serial No. 412,133; May 30. Class 46.

Goodrich, B. F., Company, The, New York, N. Y. Machinery mountings or supports. Serial No. 415,508; May 30. Class 23.

Goodrich, Walter H., & Company, Inc., New Haven, Conn. Gasoline, fuel and lubricating oil, lubricating greases. Serial No. 416,953; May 30. Class 15.

Greenway's Inc., Syracuse, N. Y. Beverages fermented from malt, hops, sugar, etc. Serial No. 418,147; May 30. Class 48.

Griswold, H. B., doing business as Griswold Ranch Company, La Habra, Calif. Avocados. Serial No. 417,537; May 30. Class 46.

Grossman, H. J., Mount Carmel, Pa. Hosiery and underwear. Serial No. 417,572; May 30. Class 37.

Hammel, Riglander & Co., Inc., New York, N. Y. Engraving blocks and parts thereof. Serial No. 416,375; May 30. Class 23.

Hannan, Willett W., doing business as The Eez Company, Jamaica, N. Y. Insecticide and parasite killer for dogs and no other animals. Serial No. 416,607; May 30. Class 6.

Hart, Lucas P., La Mesa, Calif. Furniture and floor polish. Serial No. 415,776; May 30. Class 16.

Hermes, S. A., Paris, France. Toilet sets and sewing sets and their contents. Serial No. 416,561; May 30. Class 40.

Hewitt Rubber Corporation, Buffalo, N. Y. Rubber covered rolls and pulleys and motor mountings. Serial No. 417,690; May 30. Class 23.

Hickory Grove Coal Mining Corporation, Rochester, N. Y. Coal. Serial No. 404,312; May 30. Class 1.

Hickory Overall Company, Hickory, N. C. Overalls, shirts, and hunting apparel. Serial No. 415,595; May 30. Class 39.

Hide and Leather Publishing Co., Chicago, Ill. Periodical. Serial No. 417,124; May 30. Class 38.

Home Needs Co. (See Safeway Stores, Inc.)

Hutchinson, Henry F., New York, N. Y. Designs for hats, shoes, gloves, etc. Serial No. 412,142; May 30. Class 38.
I. R. L. Inc., New York, N. Y. Detergent compounds. Serial No. 418,152; May 30. Class 4.
International Harvester Company, Chicago, Ill. Ferrous metal castings and forgings. Serial No. 417,090; May 30. Class 14.
Iron Fireman Manufacturing Company, Portland, Oreg. Thermostatically-controlled electric switches. Serial No. 415,294; May 30. Class 26.
Italian Swiss Colony, San Francisco, Calif. Wines. Serial No. 417,734; May 30. Class 47.
Jarvis, H. E., & Co., Limited, London, England. Toilet powders and lotions, impregnated pads, etc. Serial No. 418,410; May 30. Class 6.
Jarvis, H. E., & Co., Limited, London, England. Lamps for medical and surgical purposes. Serial No. 418,411; published May 30. Class 44.
Jiranek, Leo, New York, N. Y. Title for a newspaper column. Serial No. 416,326; May 30. Class 38.
Johnson, Frederick W., & Son, doing business as Chicauhagha Farms, Birmingham, Mich. Prepared sausage, hams, and bacon Serial No. 413,677; May 30. Class 46.
Keyes Fibre Company, Waterville, Maine. Molded pulp plates. Serial No. 408,885; May 30. Class 2.
Krueger, G., Brewing Company, Newark, N. J. Beer. Serial No. 415,339; May 30. Class 48.
Lees, James, & Sons Company, Bridgeport, Pa. Crochet and knitting cotton. Serial No. 417,541; May 30. Class 43.
Lees, Joseph S., Los Angeles, Calif. Hair wave turbans. Serial No. 416,857; May 30. Class 40.
Lehrman, Jacob, doing business as Sun Pride Co., Philadelphia and Harrisburg, Pa. Tomato paste. Serial No. 416,768; May 30. Class 46.
Linok Herbal Products. (See Manzoni, Lino.)
Loveman, Joseph, & Loeb, Birmingham, Ala. Sheets and pillow cases. Serial No. 414,456; May 30. Class 42.
Lowe, Joe, Corporation, New York, N. Y. Marbles, combination checkers and Chinese checkers game, etc. Serial No. 417,544; May 30. Class 22.
MacNair-Dorland Company, New York, N. Y. Periodical. Serial No. 417,130; May 30. Class 38.
Macy, R. H., & Co., Inc., New York, N. Y. Periodical. Serial No. 412,264; May 30. Class 38.
Majestic Flashing Co. (See Fingles, W. A., Inc.)
Manzoni, Lino, doing business as Linok Herbal Products, New York, N. Y. Syrup for asthma, bronchitis, coughs, etc. Serial No. 418,524; May 30. Class 6.
Manzoni, Lino, doing business as Linok Herbal Products, New York, N. Y. Cream for burns and sprains. Serial No. 418,525; May 30. Class 6.
Martin, H. H., Products Corporation, Toledo, Ohio. Bottle closures. Serial No. 416,470; May 30. Class 50.
Mason Shoe Manufacturing Company, Chippewa Falls, Wis. Footwear. Serial No. 417,884; May 30. Class 39.
Master Electric Company, The, Dayton, Ohio. Electrically operated hoists and parts thereof. Serial No. 416,151; May 30. Class 21.
Mathieson Alkali Works (Inc.), The, New York, N. Y. Preparation in powder form. Serial No. 415,518; May 30. Class 4.
McCrory Stores Corporation, New York, N. Y. Dress shields. Serial Nos. 417,885–6; May 30. Class 40.
Meadow Park Clothes, Inc., New York, N. Y. Men's and younger men's clothing. Serial No. 416,014; May 30. Class 39.
Merck & Co. Inc., Rahway, N. J. Medicinal preparations used in bacterial infections. Serial No. 418,414; May 30. Class 6.
Meyenberg Milk Products Co., Salinas, Calif. Preparation used in making ice cream. Serial No. 414,460; May 30. Class 46.
Michigan Tank & Furnace Corporation, Detroit, Mich. Furnaces, with and without air conditioning equipment. Serial No. 417,547; May 30. Class 34.
Milar, Karl A., doing business as Milar & Company, Chicago, Ill. Metal primer. Serial No. 418,049; May 30. Class 16.
Mill Agents and Distributors, Inc., Oakland, Calif. Paper. Serial No. 411,129; May 30. Class 37.
Mintocola Corporation of America, New York, N. Y. Beverages, and cyrups and extracts for making the same. Serial No. 417,226; May 30. Class 45.
Moriya, Saburo, New York, N. Y. Porcelain insulating material for electrical apparatus of all types. Serial No. 402,738; May 30. Class 21.
Moyes, Harold, doing business as Citrus Distributors, Los Angeles, Calif. Fresh citrus fruits and vegetables. Serial No. 416,472; May 30. Class 46.
National Silk Co., Inc., The, South Coventry, Conn. Threads, yarns, and novelty yarns. Serial No. 416,911; May 30. Class 43.
Natoli, Bartholomew F., doing business as Seagram Chemical Co., Passaic, N. J. Metal and silver polish. Serial No. 404,863; May 30. Class 4.
Nyal Company, Detroit, Mich. Effervescent salt preparation. Serial No. 417,820; May 30. Class 6.
Old Dominion Box Company, Lynchburg, Va. Paper boxes. Serial No. 416,866; May 30. Class 2.
Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Stainless steel and stainless iron table and kitchen dishes and pans. Serial No. 395,080; May 30. Class 13.
Palmieri, Thomas, doing business as Shapira Chemical Company, San Anselmo, Calif. Tooth powder. Serial No. 418,449; May 30. Class 6.
Panther Oil & Grease Mfg. Co., doing business as The Zone Company, Fort Worth, Tex. Liquid asbestos roof covering and plastic roof cement. Serial No. 411,897; May 30. Class 12.
Parents' Institute, Inc., The. Publication. Serial No. 417,586; May 30. Class 38.
Pepsi-Cola Bottling Co. (See Weiss, Oscar J.)
Prime Manufacturing Co., The, Milwaukee, Wis. Electric fence controllers. Serial No. 417,711; May 30. Class 21.
Queen Quality Boot Shop, Inc., Washington, D. C. Ladies' shoes. Serial No. 414,830; May 30. Class 39.
Quik-Kup Coffee, Inc., New York, N. Y. Fluid coffee. Serial No. 380,883; May 30. Class 46.
RCA Manufacturing Company, Inc., Camden, N. Y. Electric chime units and parts thereof. Serial No. 414,365; May 30. Class 36.
Ralphs-Pugh Company, Inc., San Francisco, Calif. Leather garments. Serial No. 416,205; May 30. Class 39.
Red Head Brand Company, Chicago, Ill. Caps, coats, pants, etc. Serial No. 415,139; May 30. Class 39.
Refined Products Corporation, Newark, N. J. Chemical for treating textile materials. 418,420; May 30. Class 6.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Beverages. Serial No. 417,619; May 30. Class 45.
Rochester Germicide Company, Rochester, N. Y. Liquid soap. 415,912; May 30. Class 4.
Rom, M., & Sons Company, Inc., Pittsburgh, Pa. Chili sauce, catsup, finger peppers, etc. 399,374; May 30. Class 46.
Rosefield, John B., doing business as An-Fo Manufacturing Co., Oakland, Calif. Dish-washing preparation. Serial No. 416,916; May 30. Class 4.
St. Joseph Hat & Cap Company, St. Joseph, Mo. Men's and boys' headwear. Serial No. 417,143; May 30. Class 39.
Safeway Stores, Inc., also doing business as Home Needs Co., Vernon and Oakland, Calif. Granulated soap. Serial No. 417,475; May 30. Class 4.
Saks & Company, New York, N. Y. Misses' dresses, coats, suits, and hats. Serial No. 417,153; May 30. Class 39.
Saks & Company, New York, N. Y. Shoes. Serial No. 417,389; May 30. Class 39.
Salem Chemical & Supply Co., Salem, Mass. Turpentine, wax polish, and oil polish. Serial No. 418,064; May 30. Class 16.
Sandler, A., Co., Boston, Mass. Shoes. Serial No. 417,783; May 30. Class 39.
Schoenfeld, H., & Sons, Inc., New York, N. Y. Sausage seasoning. Serial No. 412,686; May 30. Class 46.
Scholl Mfg. Co., Inc., The, New York, N. Y. Adhesive unmedicated felt corn pads. Serial No. 417,391; May 30. Class 44.
Schuckl & Co., Inc., doing business as Sunnyvale Packing Co., San Francisco, Calif. Canned soups. Serial No. 417,308; May 30. Class 46.
Schwartz, Charles, & Co., Chicago, Ill. Towels, untreated polishing cloths, and wiping and wash cloths. Serial No. 416,969; May 30. Class 42.
Seaboard Lemon Association, Oxnard, Calif. Fresh citrus fruit. Serial No. 417,590; May 30. Class 46.
Seagram Chemical Co. (See Natoli, Bartholomew F.)
Seminole Flavor Company, Chattanooga, Tenn. Beverages, and syrups for compounding the same. Serial No. 413,882; May 30. Class 45.
Serfis Glove Corp., New York, N. Y. Gloves. Serial No. 415,918; May 30. Class 39.
Shapira Chemical Company. (See Palmieri, Thomas.)
Sharp & Dohme, Incorporated, Philadelphia, Pa. Publication. Serial No. 416,115; May 30. Class 38.
Sherwin-Williams Co., The, Cleveland, Ohio. Insecticides and fungicides. Serial No. 418,497; May 30. Class 6.
Siegman, Arthur, Inc., New York, N. Y. Neckties. Serial No. 413,322; May 30. Class 39.
Simons, Sidney G., doing business as The Carr Chemical Co., Columbus, Ga. Insecticide and vermin destroyer. Serial No. 418,369; May 30. Class 6.
Societe Anonyme Parfumerie F. Millot, Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 418,603; May 30. Class 6.
Southern Independent Oil and Refining Company, Inc., Evansville, Ind. Gasoline, lubricating oils and greases. Serial No. 411,189; May 30. Class 15.
Stetson China Company, Inc., Chicago, Ill. China tableware. Serial No. 404,920; May 30. Class 30.
Sturtevant, B. F., Company, Hyde Park, Boston, Mass. Propeller fans. Serial No. 417,629; May 30. Class 34.
Sun Pride Co. (See Lehrman, Jacob.)
Sun Rise Bottling Company, The. (See Buston, Jamesson G.)
Sunnyvale Packing Co. (See Schuckl & Co., Inc.)
Superheater Company, The, Wilmington, Del., and New York, N. Y. Steam and water separators. Serial No. 417,852; May 30. Class 23.
Superior Felt & Bedding Company, Chicago, Ill. Mattresses. Serial No. 416,165; May 30. Class 32.

Supreme Sanctorum Ancient Mystic Order of Samaritans, Inc., Niagara Falls, N. Y. Fraternity pins, badges, buttons, etc. Serial No. 395,687; May 30. Class 28.
Tannhäuser Brewing Company, Bethlehem, Pa. Beer. Serial No. 418,216; May 30. Class 48.
Telemotor Corporation, New York, N. Y. Intercommunicating telephone equipment. Serial No. 417,787; May 30. Class 21.
Thompson-Hayward Chemical Company, Kansas City, Mo. Chemical coating for barrels, keys, drums, etc. Serial No. 416,168; May 30. Class 6.
Todd Shipyards Corporation, New York, N. Y. Magazine. Serial No. 416,300; May 30. Class 38.
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Paint, paint enamel, and varnish. Serial No. 416,124; May 30. Class 16.
Union Asbestos & Rubber Company, Cicero, Ill. Woven insulating blankets. Serial No. 417,037; May 30. Class 12.
Universal Atlas Cement Company, Chicago, Ill. Portland cement. Serial Nos. 416,622–3; May 30. Class 12.
Universal Camera Corporation, New York, N. Y. Camera lenses. Serial No. 417,631; May 30. Class 26.
Vitaguard Corporation, Sellersville, Pa. Screen and multiple baffle window ventilators. Serial No. 417,315; May 30. Class 34.
Ward, Bernard G., and Clarence E. Wernitsch, Portland, Oreg. Identification tags. Serial No. 411,727; May 30. Class 50.
Washington Tent & Awning Co., Inc., Washington, D. C. Venetian blinds. Serial No. 417,989; May 30. Class 32.
Weiss, Oscar J., doing business as Pepsi-Cola Bottling Co., Quincy, Ill. Beverages, and sirups and extracts for making the same. Serial No. 418,221; May 30. Class 45.
Wentz, M. C., Los Angeles, Calif. Ceramic vases, bowls, tea pots, etc. Serial No. 416,526; May 30. Class 30.
Wernitsch, Clarence E. (See Ward, Bernard G., and Clarence E. Wernitsch.)
Western Foundry Company, Portland, Oreg. Sawdust burners and hot water heaters. Serial No. 415,154; May 30. Class 34.
Whitman, Lucilla D., New York, N. Y. Neckties. Serial No. 402,882; May 30. Class 39.
Williams Inc., Peoria, Ill. Radio receiving sets and parts thereof. Serial No. 417,945; May 30. Class 21.
Willson Products, Inc., Reading, Pa. Ophthalmic mountings and lenses and parts thereof. Serial No. 417,856; May 30. Class 26.
Winorr Canning Company, The, Circleville, Ohio. Canned vegetables. Serial No. 416,885; May 30. Class 46.
Wolf & Barse, Inc., New York, N. Y. Suits, jackets, skirts, etc. Serial No. 417,354; May 30. Class 39.
Zone Company, The. (See Panther Oil & Grease Mfg. Co.)

LIST OF REGISTRANTS OF TRADE-MARKS

Adelaar Bros., Inc., New York, N. Y. Blouses, shirts, skirts, and dresses. 367,864; May 30; Serial No. 414,939; published Mar. 21, 1939. Class 39.
Aeolian American Corporation, New York, N. Y. Pianos. 367,867; May 30; Serial No. 414,978; published Mar. 21, 1939. Class 36.
Agasote Millboard Co., The, Ewing Township, Mercer County, now by change of name to Homasote Company, Inc., Trenton, Ewing Township, N. J. Building and structural material. 126,506; renewed Sept. 16, 1939.
Allison & Roth, Pittsburgh, Pa. Telephone dial light holder. 367,899; May 30. Class 21.
American Can Company, New York, N. Y. Cans, boxes, and cartons of paper or fiber. 126,120; renewed July 29, 1939.
American Character Doll Co. Inc., New York, N. Y. Dolls. 367,718; May 30; Serial No. 392,306; published Mar. 21, 1939. Class 22.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y., to American Manufacturing Company, Brooklyn, N. Y. Rope, cord, twine. 125,775; renewed June 17, 1939.
American Soya Products Corporation, Evansville, Ind. Food product ingredients. 367,859; May 30; Serial No. 414,855; published Mar. 21, 1939. Class 46.
American Thread Company, The, New York, N. Y. Thread. 367,878; May 30; Serial No. 415,207; published Mar. 21, 1939. Class 43.
American Zinc, Lead & Smelting Co., Boston, Mass., and St. Louis, Mo., assignor to American Zinc Sales Company, St. Louis, Mo. Zinc oxids. 126,627–8; renewed Sept. 30, 1939.
American Zinc, Lead & Smelting Co., Boston, Mass., and St. Louis, Mo., assignor to American Zinc Sales Company, St. Louis, Mo. Zinc oxids. 126,821; renewed Oct. 7, 1939.
Ansonia Clock Company, Inc., The, New York, N. Y. Electric clocks. 367,789; May 30; Serial No. 413,432; published Mar. 21, 1939. Class 27.
Armstrong Rubber Company, Inc., The, West Haven, Conn. Tire casings. 367,896; May 30; Serial No. 416,026; published Mar. 21, 1939. Class 35.
Aronowitz, L., doing business as Royal Canadian Tobacco Company, Toronto, Ontario, Canada. Cigarettes, cigars, and smoking tobacco. 367,843–4; May 30; Serial Nos. 414,677–8; published Mar. 21, 1939. Class 17.
Artic Roofings, Inc., Edge Moor, Del. Composition shingles and roll roofing. 367,852; May 30; Serial No. 414,767; published Mar. 21, 1939. Class 12.
Artic Roofings, Inc., Edge Moor, Del. Composition shingles and roll roofing. 367,853–4; May 30; Serial Nos. 414,768–9; published Mar. 14, 1939. Class 12.
Ashford Underwear Co., Limited, The, Ashford, England. Clothing. 126,379; renewed Aug. 26, 1939.
Associated Biscuit Co., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y. Crackers. 367,772; May 30; Serial No. 411,563; published Mar. 21, 1939. Class 46.
Augusta Knitting Corporation, Utica, N. Y. Slips, sweaters, bathing suits, etc. 367,742; May 30; Serial No. 407,049; published Aug. 23, 1938. Class 39.
Azor Corporation, Newark, N. J. Joint packing. 367,886–7; May 30; Serial Nos. 415,624–5; published Mar. 21, 1939. Class 35.
Babson Bros. (See Pine Tree Milking Machine Co., assignor.)
Bedford, Harvey W., doing business as Bedford & Sons, Los Angeles, Calif. Motor oil in bottles of quart sizes. 367,794–6; May 30; Serial Nos. 413,757–9; published Mar. 14, 1939. Class 15.
Belber Trunk & Bag Company, The, Woodbury, N. J. Wardrobe trunks, hat and shoe trunks, etc. 367,900; May 30. Class 3.
Berkowitz Envelope Company of Minnesota. (See Gopher Envelope Company.)
Bradford, W. J., Paper Company, Chicago, Ill. Paper box partitions. 367,909; May 30. Class 37.
Bregstein-Richman Inc., New York, N. Y. Slips. 367,816; May 30; Serial No. 414,254; published Mar. 14, 1939. Class 39.
Briske & Prohl, Berlin, Germany. Magnesium alloys, and castings and forgings, rolled sheets, etc. 367,743; May 30; Serial No. 407,060; published Mar. 21, 1939. Class 14.
Brown, Clarence S., & Co., Inc., New York, N. Y. Printed color comparing transparent sheets. 367,805; May 30; Serial No. 413,928; published Mar. 14, 1939. Class 38.
Brown, Clarence S., & Company, Inc., New York, N. Y. Cotton fabric. 367,908; May 30. Class 42.
Cali Ranch, doing business as A. F. Call Estate, Corona, Calif. Fresh citrus fruit. 367,745; May 30; Serial No. 407,128; published Mar. 14, 1939. Class 46.
Capewell Manufacturing Company, The, Hartford, Conn. Planes and hammers. 367,872; May 30; Serial No. 415,072; published Mar. 21, 1939. Class 23.
Capitol Bedding Co., Hartford, Conn. Mattresses, box springs, and upholstered furniture. 367,739; May 30; Serial No. 405,803; published Mar. 21, 1939. Class 32.
Cardinell Corporation, Montclair, N. J. Ink eradicators. 367,903; May 30. Class 6.
Celanese Corporation of America, New York, N. Y. Piece goods. 367,855; May 30; Serial No. 414,820; published Mar. 21, 1939. Class 42.
Central Knitwear Mills, Inc., New York, N. Y. Bathing suits. 367,845; May 30; Serial No. 414,685; published Mar. 14, 1939. Class 39.
Chase, Alyce. (See Lewis, Edgar P., & Sons, Inc.)
Chicken Shack, Incorporated, The, Chicago, Ill. Fried chicken and French fried potatoes. 367,719; May 30; Serial No. 395,019; published Aug. 30, 1938. Class 46.
Clopay Corporation, Cincinnati, Ohio. Cover paper. 367,803–4; May 30; Serial Nos. 413,896–7; published Mar. 21, 1939. Class 37.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars and cuffs. 127,011; renewed Oct. 21, 1939.
Cohn, Herman, Leather Goods Company, The, Baltimore, Md. Brushes and brush sets and whisk brooms and hair brushes. 367,762; May 30; Serial No. 410,575; published Mar. 14, 1939. Class 28.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 367,778; May 30; Serial No. 412,170; published Mar. 21, 1939. Class 4.
Colgate-Palmolive-Peet Company. (See Palmolive Company, The.)
Concrete Publishing Corporation, Chicago, Ill. Heading of a department of a periodical. 367,825; May 30; Serial No. 414,485; published Mar. 14, 1939. Class 38.
Conde Nast Publications, Inc., The, New York, N. Y. Magazine. 367,833; May 30; Serial No. 414,594; published Mar. 14, 1939. Class 38.
Connell Bros. Company Limited, San Francisco, Calif. Wheat flour, fresh grapes, apples, etc. 367,752; May 30; Serial No. 408,564; published Mar. 21, 1939. Class 46.

Consolidated Cover Co., San Francisco, Calif. Paper toilet seat covers. 367,881; May 30; Serial No. 415,327; published Mar. 21, 1939.
Cools, Inc., Detroit, Mich. Candies. 367,737; May 30; Serial No. 405,197; published Mar. 21, 1939. Class 46.
Cornish, Jesse B., Chicago, Ill. Varnishes. 125,203; renewed Apr. 22, 1939.
Crompton Company, assignor to Crompton Company, Crompton, R. I. Corduroys. 126,834; renewed Oct. 7, 1939.
Crystal, David, Inc., New York, N. Y. Dresses. 367,848; May 30; Serial No. 414,727; published Mar. 21, 1939. Class 39.
Danahy Packing Company, The, Buffalo, N. Y. Sausages. 127,020; renewed Oct. 21, 1939.
Dattelbaum & Friedman, New York, N. Y. Gold finger-rings. 126,932; renewed Oct. 14, 1939.
Debutante Frocks Inc., New York, N. Y. Ladies' and misses' dresses. 367,722; May 30; Serial No. 398,151; published Dec. 21, 1937. Class 39.
Dempsey, Jack, & Co., Inc., Baltimore, Md. Whiskey. 367,895; May 30; Serial No. 415,929; published Mar. 21, 1939. Class 49.
De Sanno, A. P., & Son, Inc., Philadelphia and Phoenixville, Pa. Portable grinding machines. 367,873; May 30; Serial No. 415,075; published Mar. 21, 1939. Class 23.
Despard & Gordon Company, Chicago, Ill., assignor to McGill Manufacturing Company, Valparaiso, Ind. Electric-lamp sockets. 125,627; renewed June 3, 1939.
Dolamore, Limited, London, England. Whisky, brandy, rum, etc. 367,889; May 30; Serial No. 415,706; published Mar. 21, 1939. Class 49.
Douglas Aircraft Company, Inc., Santa Monica, Calif. Airplanes and structural parts thereof. 367,720; May 30; Serial No. 396,262; published Mar. 21, 1939. Class 19.
Dubin Distillers Company, Ltd., The, Dublin, Ireland. Whisky. 125,801; renewed June 17, 1939.
Duenckel, Fred W., St. Louis, Mo. Ointment. 126,669; renewed Sept. 30, 1939.
Eastern Manufacturing Company, assignor, by mesne assignments, to Eastern Manufacturing Company, Bangor, Maine. Paper and cardboard. 126,673; renewed Sept. 30, 1939.
Economics Laboratory, Incorporated, St. Paul, Minn. Cleansing and polishing compounds. 367,860–1; May 30; Serial Nos. 414,870–1; published Mar. 21, 1939. Class 4.
Eisendrath, B. D., Tanning Company, Chicago, Ill. Leather. 367,823; May 30; Serial No. 414,439; published Mar. 21, 1939. Class 1.
Elastic Toe Corporation, New York, N. Y. Hosiery. 367,820; May 30; Serial No. 414,342; published Mar. 14, 1939. Class 39.
Elgin Laboratories, Inc., Chicago, Ill. Electric lamps for use as a therapeutic agent. 367,801; May 30; Serial No. 413,862; published Mar. 21, 1939. Class 44.
Empire Broadcasting Corporation, New York, N. Y. Electrical transcriptions. 367,868; May 30; Serial No. 414,989; published Mar. 21, 1939. Class 36.
Enro Shirt Co., The, Louisville, Ky. Shirts and pajamas. 367,846; May 30; Serial No. 414,693; published Mar. 14, 1939. Class 39.
Esmond Mills, The, New York, N. Y. Blankets. 367,728; May 30; Serial No. 402,333; published Mar. 21, 1939. Class 42.
Fairbank, N. K., Company, The, Union Township, near Guttenberg, N. J., and Chicago, Ill., assignor to Lever Brothers Company, Cambridge, Mass. Vegetable-oil product for salads and cooking. 126,678; renewed Sept. 30, 1939.
Famous-Barr Co. (See May Department Stores Company, The.)
Fashion Life, Inc., New York, N. Y. Millinery, clothing for women. 367,721; May 30; Serial No. 396,656; published Dec. 28, 1937. Class 39.
Felner, Benjamin F., Jr., New York, N. Y. Photographic prints. 367,809; May 30; Serial No. 414,062; published Mar. 21, 1939. Class 38.
Firestone Tire & Rubber Company, The, Akron, Ohio. Storage batteries. 367,874; May 30; Serial No. 415,077; published Mar. 21, 1939. Class 21.
Fisher Scientific Company, Pittsburgh, Pa. Stainless steel hand tool. 367,785; May 30; Serial No. 413,303; published Mar. 21, 1939. Class 23.
Fitzpatrick, W. J., Company, The, Chicago, Ill. Bread. 367,786; May 30; Serial No. 413,304; published Mar. 21, 1939. Class 46.
Fleetwood Sportwear Co. Inc., New York, N. Y. Dresses, wraps, coats, etc. 367,907; May 30. Class 39.
Formica Insulation Company, The, Cincinnati, Ohio. Decorative laminated paneling. 367,732; May 30; Serial No. 404,404; published Mar. 21, 1939. Class 12.
Franklin Tile Company, Lansdale, Pa. Wall and floor tiles, slabs, blocks. Insulation for oil lines, etc. 367,783; May 30; Serial No. 413,041; published Mar. 7, 1939. Class 12.
Frozen Novelties, Inc., Long Island City, N. Y. Frozen confections. 367,725; May 30; Serial No. 401,776; published Mar. 21, 1939. Class 46.
Gagnier, Martin F., doing business as Insulaire Company, Detroit, Mich. Guide channel members for use in storm window construction. 367,776; May 30; Serial No. 412,129; published Mar. 21.
Gantner & Mattern Company, San Francisco, Calif. Suits, dresses, coats, etc. 367,736; May 30; Serial No. 405,110; published Mar. 14, 1939. Class 39.
Gates Rubber Company, The, Denver, Colo. Belts. 127,044; renewed Oct. 21, 1939.
General Cigar Co., Inc., New York, N. Y. Cigars. 125,431; renewed May 20, 1939.
General Cigar Co., Inc., New York, N. Y. Cigars, little cigars, cheroots, etc. 126,161; renewed July 29, 1939.
General Cigar Co., Inc. (See United Cigar Manufacturers Company.)
General Time Instruments Corporation, New York, N. Y., and La Salle, Ill. Clocks and watches. 367,905; May 30. Class 27.
Globe American Corporation, doing business as Makomb Steel Products Company, Kokomo, Ind., and Macomb, Ill. Poultry feeders, incubators, watering fountains, etc. 367,744; May 30; Serial No. 407,063; published Mar. 21, 1939. Class 50.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Tire valve stems. 367,818; May 30; Serial No. 414,316; published Mar. 21, 1939. Class 13.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Cushions, pillows, mattresses, etc. 367,893; May 30; Serial No. 415,774; published Mar. 21, 1939. Class 32.
Gopher Envelope Company, to Berkowitz Envelope Company of Minnesota, Minneapolis, Minn., successor. Mailing-envelops. 126,687; renewed Sept. 30, 1939.
Gorham Manufacturing Company, Providence, R. I. Boxes, cases, receptacles, and casings. 367,769; May 30; Serial No. 411,271; published Mar. 21, 1939. Class 2.
Graff, William T., Jr., White Plains, N. Y. Games. 367,806; May 30; Serial No. 414,028; published Mar. 21, 1939. Class 22.
Great Atlantic & Pacific Tea Company, The, New York, N. Y. Whiskey. 367,877; May 30; Serial No. 415,162; published Mar. 21, 1939. Class 49.
Great Lakes Steel Corporation, Ecorse, Mich. Metal framing elements for buildings. 367,793; May 30; Serial No. 413,580; published Mar. 7, 1939. Class 12.
Greif, L., & Bro., Inc., Baltimore, Md. Topcoats, overcoats, coats, etc. 367,759; May 30; Serial No. 410,291; published Mar. 14, 1939. Class 39.
Guernsey Farm. (See Pope, Claude E.)
Hearst Magazines Inc., New York, N. Y. Printed advertising signs. 367,761; May 30; Serial No. 410,505; published Mar. 14, 1939. Class 38.
Heller Brothers Company. (See Rex File Company, The, assignor.)
Henderson, L. S., doing business as King Dū-G Co., Parsons, Kans. Board games. 367,880; May 30; Serial No. 415,249; published Mar. 21, 1939. Class 22.
Hi-Ho Company, Reno, Nev. Pre-shaving face lotion. 367,746; May 30; Serial No. 407,547; published Mar. 21, 1939. Class 4.
Hohnhold, Anton, doing business as The Home Soap Co., North Haledon, N. J. Soap powder. 367,774; May 30; Serial No. 412,032; published Mar. 21, 1939. Class 4.
Holland Food Corporation, New York, N. Y. Cheese. 367,836; May 30; Serial No. 414,609; published Mar. 21, 1939. Class 46.
Holt, Beulah, doing business as Beulah Holt Rainette Co., Kansas City, Mo. Oil silk rain suit. 367,802; May 30; Serial No. 413,869; published Mar. 14, 1939. Class 39.
Homasote Company, Inc. (See Agasote Millboard Co., The.)
Home Oil Heating Company, Passaic, N. J. Oil burners. 367,741; May 30; Serial No. 406,715; published Mar. 21, 1939. Class 34.
Home Soap Co., The. (See Hohnhold, Anton.)
Hood Rubber Company, Watertown, Mass., assignor to Hood Rubber Company, Inc., Wilmington, Del. Rubber boots and shoes, overshoes, etc. 125,292; renewed May 6, 1939.
Horner, George W., & Co. Limited, Chester-le-Street, England. Toffee, chocolate covered toffee, and boiled sweets. 367,779–80; May 30; Serial Nos. 412,186–7; published Feb. 14, 1939. Class 46.
Hume-Love Company, Garfield, Wash. Self-driven cultivating and harvesting machinery, and parts thereof. 367,765; May 30; Serial No. 410,908; published Dec. 20, 1938. Class 23.
Industrial Rayon Corporation, Cleveland, Ohio. Yarn. 367,754; May 30; Serial No. 409,574; published Mar. 14, 1939. Class 43.
Industrial Rayon Corporation, Cleveland, Ohio. Rayon piece goods. 367,758; May 30; Serial No. 410,138; published Mar. 21, 1939. Class 42.
Insulaire Company. (See Gagnier, Martin F.)
International Cellucotton Products Company. (See Kimberly-Clark Co., assignor.)
International Silver Company, Meriden, Conn. Silverplated flatware. 367,849; May 30; Serial No. 414,740; published Mar. 21, 1939. Class 28.
International Tostmistress Clubs, San Francisco, Calif. Publication. 367,826; May 30; Serial No. 414,497; published Mar. 14, 1939. Class 38.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 367,775; May 30; Serial No. 412,101; published Jan. 3, 1939. Class 39.

Iroquois Beverage Corporation, Buffalo, N. Y. Beer and ale. 367,767–8; May 30; Serial Nos. 411,165–6; published Dec. 6, 1938. Class 48.
Jasper, John, New York, N. Y. Printed advertising signs and billboard sheets. 367,784; May 30; Serial No. 413,046; published Mar. 21, 1939. Class 38.
Jenath Knitwear, Inc., Brooklyn, N. Y. Ladies' sweaters. 367,798; May 30; Serial No. 413,829; published Mar. 14, 1939. Class 39.
Joy Products Corporation, Watertown, N. Y. Absorbent pads. 367,807; May 30; Serial No. 414,030; published Mar. 21, 1939. Class 50.
Kahn, David, Inc., North Bergen, N. J. Fountain pens. 367,724; May 30; Serial No. 401,670; published Mar. 21, 1939. Class 37.
Kalart Company, The, New York, N. Y. Micromatic speed flash for photographic cameras and camera attachments. 367,733; May 30; Serial No. 404,540; published Sept. 27, 1938. Class 26.
Kaplan, Joseph A., Inc., New York, N. Y. Shower curtains. 367,730; May 30; Serial No. 402,888; published Mar. 21, 1939. Class 13.
Kapp, Gene, New York, N. Y. Pens and pencils. 367,847; May 30; Serial No. 414,700; published Mar. 21, 1939. Class 37.
Kay, Ellen, Knitting Mills, Inc., San Francisco, Calif. Knitted sportwear. 367,782; May 30; Serial No. 412,701; published Mar. 21, 1939. Class 39.
Kelley, Frank, Inc., Elkins Park, Pa. Light reflector for electric lamps. 367,815; May 30; Serial No. 414,228; published Mar. 21, 1939. Class 34.
Kelly-Springfield Tire Company, The, Cumberland, Md. Tires. 367,890; May 30; Serial No. 415,717; published Mar. 21, 1939. Class 35.
Keyboard Publishing Co. (See Mininberg, Ian.)
Kimberly-Clark Co., Neenah, Wis., assignor, by mesne assignments, to International Cellucotton Products Company, Chicago, Ill. Surgical dressings. 126,706; renewed Sept. 30, 1939.
King Dū-G Co. (See Henderson, L. S.)
King Features Syndicate, Inc., New York, N. Y. Cartoon series. 367,876; May 30; Serial No. 415,128; published Mar. 14, 1939. Class 38.
King, J. B., & Co., New York, N. Y., to United States Gypsum Company, Chicago, Ill., successor. Wall-finishes, plastic compounds, etc. 16,825; re-renewed July 16, 1939.
Koret, Samuel, New York, N. Y. Handbags. 367,770; May 30; Serial No. 411,501; published Mar. 21, 1939. Class 3.
Kornfeld, Samuel L., Wichita, Kans. Mats for printed media. 367,757; May 30; Serial No. 410,095; published Mar. 21, 1939. Class 50.
Krause, Chas. A., Milling Co., Milwaukee, Wis. Cereal binder sold as a core binder. 367,750; May 30; Serial No. 408,280; published Mar. 21, 1939. Class 5.
Lactona, Incorporated, St. Paul, Minn. Devices for oral hygiene. 367,740; May 30; Serial No. 406,454; published Mar. 21, 1939. Class 29.
Ladd Lime & Stone Co., Cartersville, Ga. Masonry mortar. 367,817; May 30; Serial No. 414,265; published Mar. 14, 1939. Class 12.
Lane, E. F., & Son, San Francisco, Calif. Peanut butter and roasted peanuts. 367,734; May 30; Serial No. 404,856; published Mar. 21, 1939. Class 46.
Lee's, Wendy, Kitchen. (See Miller & Hollis, Inc.)
Lever Brothers Company. (See Fairbank, N. K., Company, The, assignor.)
Lewis, Edgar P., & Sons, Inc., doing business as Alyce Chase, Malden, Mass. Candy. 367,920; May 30. Class 46.
Listeners Digest, Inc., New York, N. Y. Magazine or periodical. 367,856; May 30; Serial No. 414,827; published Mar. 21, 1939. Class 38.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections and fruit syrups. 367,723; May 30; Serial No. 401,310; published Aug. 9, 1938. Class 46.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections and crackers. 367,865–6; May 30; Serial Nos. 414,955–6; published Mar. 21, 1939. Class 46.
Magnic Snap-On Dress Co., Inc., The, New York, N. Y. Clothing. 367,729; May 30; Serial No. 402,381; published Mar. 21, 1939. Class 39.
Maine Steel, Inc., South Portland, Maine. Machines for soil cultivation and parts of such machines. 367,747; May 30; Serial No. 407,597; published Mar. 21, 1939. Class 23.
Maison Moet & Chandon Fondée en 1743, Société Anonyme, Epernay, France. Champagne wines. 367,910–11; May 30. Class 47.
Makomb Steel Products Company. (See Globe American Corporation.)
Mansbrooke Rainwear Co., The, Needham Heights, Mass. Coats, raincoats, overcoats, etc. 367,810; May 30; Serial No. 414,075; published Mar. 14, 1939. Class 39.
Marlin-Rockwell Corporation, New York, N. Y., assignor, by mesne assignments, to Rockbestos Products Corporation, New Haven, Conn. Insulated electrical conductors. 127,084; renewed Oct. 21, 1939.
Marquette, George, Louisville, Ky. Hosiery. 367,917; May 30. Class 39.
Matsunami, Sadakichi, Kishiwada, Japan. Lenses. 127,088; renewed Oct. 21, 1939.
May Department Stores Company, The, New York, N. Y., doing business as M. O'Neil Co., Akron, Ohio; The May Co., Baltimore, Md., Cleveland, Ohio, Los Angeles, Calif., and Danver, Colo.; and the Famous-Barr Co., St. Louis, Mo. Suits, overcoats, jackets, etc. 367,771; May 30; Serial No. 411,506; published Mar. 14, 1939. Class 39.
McGill Manufacturing Company. (See Despard & Gordon Company, assignor.)
Methodist Book Concern, The, Cincinnati, Ohio. Periodical. 367,875; May 30; Serial No. 415,086; published Mar. 14, 1939. Class 38.
Micromatic Hone Corporation, Detroit, Mich. Rotary honing and grinding tools. 367,799–800; May 30; Serial Nos. 413,836–7; published Mar. 21, 1939. Class 23.
Miller Chemical & Fertilizer Corp., Baltimore, Md. Insecticides and fungicides. 367,921; May 30. Class 6.
Miller & Hollis, Inc., Boston, Mass. Chocolates. 367,918; May 30. Class 46.
Miller & Hollis, Inc., doing business as Wendy Lee's Kitchen, Boston, Mass. Chocolates. 367,919; May 30. Class 46.
Miller Publishing Co., The, Minneapolis, Minn. Publication. 367,869; May 30; Serial No. 415,007; published Mar. 14, 1939. Class 38.
Mininberg, Ian, doing business as Keyboard Publishing Co., New Haven, Conn. Publications. 367,839; May 30; Serial No. 414,667; published Mar. 14, 1939. Class 38.
Modern Engineering Company, Inc., St. Louis, Mo. Pressure regulator valves. 367,922; May 30. Class 13.
Mooney, James E., Philadelphia, Pa. Magazine. 367,830; May 30; Serial No. 414,545; published Mar. 21, 1939. Class 38.
Morrell, John, & Co., Ottumwa, Iowa. Foods. 127,094; renewed Oct. 21, 1939.
Morse, Leopold, Company, Boston, Mass. Overcoats. 367,787; May 30; Serial No. 413,351; published Mar. 14, 1939. Class 39.
Mortell, J. W., Company, Kankakee, Ill. Sound deadening plastic compound. 367,857; May 30; Serial No. 414,829; published Mar. 14, 1939. Class 12.
Moulton Ladder Manufacturing Co., Somerville, Mass. Ladders. 367,837; May 30; Serial No. 414,637; published Mar. 21, 1939. Class 50.
Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Crochet and sewing cotton, cotton yarn, etc. 367,766; May 30; Serial No. 411,131; published Mar. 14, 1939. Class 43.
Murphy, John B., Minneapolis, Minn. Cigars, cigarettes, smoking and chewing tobacco. 367,834; May 30; Serial No. 414,602; published Mar. 21, 1939. Class 17.
Muskegon Piston Ring Company, Muskegon, Mich. Piston rings. 367,888; May 30; Serial No. 415,661; published Mar. 21, 1939. Class 35.
Nachman Springfilled Corporation, Chicago, Ill. Spring assemblies for upholstery and upholstery units equipped with spring assemblies. 367,838; May 30; Serial No. 414,641; published Mar. 21, 1939. Class 32.
Nashua Gummed and Coated Paper Company, Nashua, N. H. Paper coated with a silver-like coating. 127,907; renewed July 8, 1939.
National Cordial Co., Inc., Chicago, Ill. Rock and rye, rock and rum, vermuth and whiskey, etc. 367,883; May 30; Serial No. 415,606; published Mar. 21, 1939. Class 49.
National Engineering Products, Inc., Washington, D. C. Metallic plastic packing. 367,894; May 30; Serial No. 415,909; published Mar. 21, 1939. Class 35.
National Hybrid Corn Company, Anamosa, Iowa. Seed corn or grains. 367,904; May 30. Class 1.
Newport, Mr., Inc. Chicago, Ill. Maltless beverages. 367,763; May 30; Serial No. 410,745; published Mar. 21, 1939. Class 45.
North American Rayon Corporation, New York, N. Y. Thread and yarn. 367,731; May 30; Serial No. 403,323; published Mar. 14, 1939. Class 43.
Nutro Food Products Company, Newark, N. J. Chocolate flavored malt preparation. 367,915; May 30. Class 46.
Old Colony Knitting Mills, Inc., Hingham, Mass. Knitted sportwear; and dresses. 367,716; May 30; Serial No. 381,917; published July 5, 1938. Class 39.
Olenik, Irwin, New York, N. Y. Lapel buttons, badges, medallions, etc. 367,840; May 30; Serial No. 414,668; published Mar. 21, 1939. Class 50.
Oneida Ltd., Sherrill and Oneida, N. Y.; and Northampton, Mass. Silverplated flatware. 367,879; May 30; Serial No. 415,226; published Mar. 21, 1939. Class 28.
O'Neil, M., Co., The. (See May Department Stores Company, The.)
O-Pee-Chee Company Limited, London, Ontario, Canada. Chewing gum. 367,748; May 30; Serial No. 407,966; published Mar. 21, 1939. Class 46.
Owens-Illinois Glass Company, Toledo, Ohio. Widemouth glass jars or containers, for cigars and the like. 367,756; May 30; Serial No. 409,740; published Mar. 21, 1939. Class 8.
Packard-Bamberger & Co., Inc., Hackensack, N. J. Sweet relish, sour chow chow, sweet chow chow, etc. 367,914; May 30. Class 46.
Palmolive Company, The, Milwaukee, Wis., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet powders. 126,462; renewed Aug. 26, 1939.

Parents' Institute, Inc., The, New York, N. Y. Column or section in a monthly magazine. 367,827; May 30; Serial No. 414,503; published Mar. 14, 1939. Class 38.

Patterson, Eleanor M., doing business as Patterson Newspapers and/or Washington Herald-Times, Washington, D. C. News column and special articles. 367,871; May 30; Serial No. 415,055; published Mar. 14, 1939. Class 38.

Pearson Pharmacal Company, Inc., New York, N. Y. Preparation used for massaging the gums. 367,906; May 30. Class 6.

Peninsular Chemical Co., Detroit, Mich., now by change of name, to The Penslar Company. Dentifrice and talcum powder. 126,748; renewed Sept. 30, 1939.

Penslar Company, The. (See Peninsular Chemical Co.)

Perfect Garment Company. (See Sobelman, Morris.)

Perlberg, Fred, Inc., New York, N. Y. Dresses. 367,813; May 30; Serial No. 414,201; published Mar. 14, 1939. Class 39.

Persson, Eric S., Malmo, Sweden. Windows, doors, shutter blinds, etc. 367,753; May 30; Serial No. 408,738; published Mar. 21, 1939. Class 12.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicinal preparation. 126,952; renewed Oct. 14, 1939.

Pine Tree Milking Machine Co., assignor, by mesne assignments, to Babson Bros., Chicago, Ill. Milking-machines. 125,500; renewed May 20, 1939.

Popcorn Growers and Distributors, Inc., Wall Lake, Iowa. Pop corn. 367,717; May 30; Serial No. 383,939; published Mar. 21, 1939. Class 46.

Pope, Claude E., doing business as Guernsey Farm, Oakland, Calif. Fresh milk and cream, butter, etc. 367,901; May 30. Class 46.

Pyramid Commercial Corporation, New York, N. Y. Edible and olive oils, rice, and conserves. 367,738; May 30; Serial No. 405,268; published Mar. 21, 1939. Class 46.

Quaker Oats Company, The, Chicago, Ill. Breakfast cereals. 367,913; May 30. Class 46.

RCA Manufacturing Company, Inc., Camden, N. J. Needles for talking machines. 367,821; May 30; Serial No. 414,366; published Mar. 21, 1939. Class 36.

Red Cedar Shingle Bureau, Seattle, Wash. Red cedar shingles. 367,764; May 30; Serial No. 410,749; published Mar. 21, 1939. Class 12.

Rex File Company, The, Newcomerstown, Ohio, assignor to Heller Brothers Company, Newark, N. J. Files and rasps. 126,958; renewed Oct. 14. 1939.

Riviera Packing Company, Oakland, Calif. Prepared food products. 367,862; May 30; Serial No. 414,891; published Mar. 21, 1939. Class 46.

Rockbestos Products Corporation. (See Marlin-Rockwell Corporation, assignor.)

Rogers, Loran M., Webster City, Iowa. Periodical publication. 367,831-2; May 30; Serial Nos. 414,547-8; published Mar. 14, 1939. Class 38.

Roper Knitting Company, Inc., Canandaigua, N. Y. Knitted sweaters. 367,777; May 30; Serial No. 412,156; published Mar. 14, 1939. Class 39.

Roskin, I., Company, Inc., New York, N. Y. Jewelry and articles of personal adornment. 367,792; May 30; Serial No. 413,561; published Mar. 14, 1939. Class 28.

Royal Canadian Tobacco Company. (See Aronowitz, L.)

Ruppert, Jacob, New York, N. Y. Ale. 367,808; May 30; Serial No. 414,042; published Mar. 21, 1939. Class 48.

Russeks Fifth Avenue, Inc., New York, N. Y. Clothing for women. 367,819; May 30; Serial No. 414,324; published Mar. 21, 1939. Class 39.

Sanders & Jungreis, New York, N. Y. Pajamas. 367,835; May 30; Serial No. 414,605; published Mar. 14, 1939. Class 39.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparations. 367,897-8; May 30; Serial Nos. 415,263-4; published Mar. 28, 1939. Class 6.

Schneierson, I., & Sons, Inc., New York, N. Y. Chemises, princess slips, bloomers, etc. 367,822; May 30; Serial No. 414,371; published Mar. 14, 1939. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Duplicating devices. 367,751; May 30; Serial No. 408,326; published Mar. 21, 1939. Class 37.

Sears, Roebuck and Co., Chicago, Ill. House paint. 367,863; May 30; Serial No. 414,897; published Mar. 21, 1939. Class 16.

Seiler Coal Co. Inc., New York, N. Y. Anthracite coal. 367,916; May 30. Class 1.

Serwer, Samiel, & Sons, New York, N. Y. Textile fabrics. 367,858; May 30; Serial No. 414,853; published Mar. 21, 1939. Class 40.

Shellmar Products Company, Mount Vernon, Ohio. Window posters. 367,824; May 30; Serial No. 414,472; published Mar. 21, 1939. Class 38.

Shiman, M. H., & Co. Inc., New York, N. Y. Jewelry. 367,760; May 30; Serial No. 410,491; published Mar. 14, 1939. Class 28.

Shoe Form Co., Inc., Auburn, N. Y. Fly boxes. 367,891; May 30; Serial No. 415,744; published Mar. 21, 1939. Class 22.

Sobelman, Morris, doing business as Perfect Garment Company, Baltimore, Md. Women's, misses', and children's clothing. 367,902; May 30. Class 39.

Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill.; to The Southern Cotton Oil Company, New Orleans, La. Edible oil. 127,140-2; renewed Oct. 21, 1939.

Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill.; to The Southern Cotton Oil Company, New Orleans, La. Cotton-seed-oil shortening compound. 127,143; renewed Oct. 21, 1939.

Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill.; to The Southern Cotton Oil Company, New Orleans, La. Edible oil. 127,204; renewed Oct. 21, 1939..

Southland Manufacturing Company, Inc., Wilmington, N. C. Shirts, pajamas, underwear, etc. 367,811; May 30; Serial No. 414,164; published Mar. 14, 1939. Class 39.

Spacarb, Inc., Jersey City, N. J. Coin-operated beverage dispensing machines. 367,797; May 30; Serial No. 413,801; published Mar. 21, 1939. Class 23.

Spencerian Pen Company, The, New York, N. Y. Combination pen and ink eraser. 367,841; May 30; Serial No. 414,670; published Mar. 21, 1939. Class 37.

Sperry Gyroscope Company, The, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electric search-lights, arc lamp lights, and flood-light projectors. 126,580; renewed Sept. 16, 1939.

Standard Brands Incorporated, New York, N. Y. Coffee. 367,842; May 30; Serial No. 414,674; published Mar. 21, 1939. Class 46.

Standard Varnish Works, Staten Island, N. Y. Paints, sealers, primers, etc. 367,850; May 30; Serial No. 414,757; published Mar. 21, 1939. Class 16.

Stanley Home Products, Inc., Westfield, Mass. Brushes. 367,912; May 30. Class 29.

Stanley Works, The, New Britain, Conn. Rules, levels, plumbs, etc. 367,726; May 30; Serial No. 402,145; published Mar. 21, 1939. Class 26.

Stanley Works, The, New Britain, Conn. Planes, fibre board cutters, scrapers, etc. 367,727; May 30; Serial No. 402,146; published Mar. 21, 1939. Class 23.

Staten Island Home Utilities, Inc., Port Richmond and Staten Island, N. Y. Gasoline. 367,790; May 30; Serial No. 413,490; published Mar. 21, 1939. Class 15.

Stein, Hall & Company, Inc., New York, N. Y. Adhesives containing starch. 367,788; May 30; Serial No. 413,368; published Mar. 14, 1939. Class 5.

Stevens Paper Mills, Incorporated, The, Westfield, Mass. Condenser paper. 367,755; May 30; Serial No. 409,712; published Mar. 21, 1939. Class 37.

Stifel, J. L., & Sons, assignor to J. L. Stifel & Sons, Inc., Wheeling, W. Va. Prints, drills, and denims. 126,908; renewed Oct. 7, 1939.

Stitt & Howell, Inc., New York, N. Y. Rugs. 367,749; May 30; Serial No. 407,996; published Mar. 21, 1939. Class 42.

Superior Felt & Bedding Company, Chicago, Ill. Mattresses. 367,882; May 30; Serial No. 415,358; published Mar. 21, 1939. Class 32.

Synchro-Lock, Inc., Boston, Mass. Apparatus for use in effecting the synchronization of a plurality of internal combustion engines. 367,870; May 30; Serial No. 415,015; published Mar. 21, 1939. Class 26.

Tarshes Bros., Inc., New York, N. Y. Pants, trousers, and slacks. 367,828; May 30; Serial No. 414,540; published Mar. 14, 1939. Class 39.

Tarshes Bros., Inc., New York, N. Y. Shirts for officers in the military service. 367,829; May 30; Serial No. 414,541; published Mar. 14, 1939. Class 39.

Thermal Products Corporation, Pittsburgh, Pa. Protective coating materials. 367,773; May 30; Serial No. 411,914; published Mar. 14, 1939. Class 12.

Tilo Roofing Company, Inc., Stratford, Conn. Roofing materials. 367,735; May 30; Serial No. 404,964; published Mar. 14, 1939. Class 12.

Trade Newspapers Corporation, New York, N. Y. Publication. 367,851; May 30; Serial No. 414,760; published Mar. 14, 1939. Class 38.

Trippe Manufacturing Company, Chicago, Ill. Electric head lamp for vehicles. 367,781; May 30; Serial No. 412,313; published Mar. 21, 1939. Class 21.

United Cigar Manufacturers Company, New York, N. Y., now by change of name to General Cigar Co., Inc. Cigars. 125,713; renewed June 3, 1939.

United States Gypsum Company. (See King, J. B., & Co.)

Vernon, S. E. & M., Inc., New York, N. Y. Composition books, loose leaf fillers and binders. 367,884; May 30; Serial No. 415,614; published Mar. 21, 1939. Class 37.

Waitt & Bond, Inc., Newark, N. J. Cigars. 367,814; May 30; Serial No. 414,210; published Mar. 21, 1939. Class 17.

Walker, Hiram, & Sons Inc., Peoria, Ill. Whiskey. 367,885; May 30; Serial No. 415,616; published Mar. 21, 1939. Class 49.

Washington Herald-Times. (See Patterson, Eleanor M.)

Weinberg, Louis, doing business as Wonder Clothes, Baltimore, Md. Men's overcoats and topcoats. 367,812; May 30; Serial No. 414,172; published Mar. 21, 1939. Class 39.

Wilken Company, Incorporated, The, New York, N. Y.; Lawrenceburg, Ind.; and Aladdin, Pa. Whiskey, gin, rum, etc. 367,892; May 30; Serial No. 415,751; published Mar. 21, 1939. Class 49.

Wonder Clothes. (See Weinberg, Louis.)

Zip Abrasive Company, The, Cleveland, Ohio. Liquid level gauges. 367,791; May 30; Serial No. 413,529; published Mar. 21, 1939. Class 26.

LIST OF REGISTRANTS OF LABELS

Amick, Walter, Seattle, Wash. Amick's Imp Tago. For an Ointment for the Treatment of Impetigo. 53,022; May 30.

Ballantine, Geo., & Son Ltd., New York, N. Y. Ballantine's. For Liqueur Blended Scotch Whiskey. 52,023; May 30.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Fruited Oat Cookies. For Fruited Oat Cookies. 53,024; May 30.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Sliced Bacon. For Sliced Bacon. 53,025; May 30.

Blum, Philip, & Company, Inc., Chicago, Ill. Ruby. For Sloe Gin. 53,026; May 30.

Blum, Philip, & Company, Inc., Chicago, Ill. Mistletoe. For Distilled Dry Gin. 53,027; May 30.

Brody, Leo, doing business as Lebro Products, Brooklyn, N. Y. Snow-White. For Washing Fluid. 53,028; May 30.

Charles Chemical Company. (See Lebowitz, Charles.)

Clark-Millner Co., Chicago, Ill. Twin Sisters Eye Pik-Ups. For Saturated Masks for Tired Eyes. 53,029; May 30.

Collins, Clyde, Inc., Memphis, Tenn. Royaline. For Petroleum Jelly. 53,030; May 30.

Emm-An-Cee Co., The, Chicago, Ill. Pronto. For Italian Style Ravioli with Mushroom Sauce. 53,031; May 30.

Esmond, Gundlach and Company. (See Gundlach, George P.)

Florida Fruit Canners, Inc., Frostproof, Fla. Richtest. For Canned Grapefruit Juice. 53,032; May 30.

General Mills, Inc., Minneapolis, Minn. Softasilk. For Cake Flour. 53,033; May 30.

Gilbert, A. C., Company, The, New Haven, Conn. Gilbert American Flyer Scale Trains and Equipment. For Scale Trains and Equipment. 53,034; May 30.

Gundlach, George P., doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Golden Flake. For Buttermilk. 53,035; May 30.

Gundlach, George P., doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Mellow Milk. For Milk. 53,036; May 30.

Gundlach, George P., doing business as Esmond Gundlach and Company, Cincinnati, Ohio. Mel-O-Rich. For Homogenized Milk. 53,037; May 30.

Gundlach, George P., doing business as Esmond Gundlach and Company, Cincinnati, Ohio. Whitehouse. For Ice Cream. 53,038; May 30.

Haas, Baruch & Co., Los Angeles, Calif. Iris. For Bird Seed. 53,039; May 30.

Hadjoson, Kimon, doing business as Orthotonic Radio Co., New York, N. Y. Super Ortho-Tonic. For Radio-Phonographs. 53,040; May 30.

Hahn's Creameries, Inc., New York, N. Y. Tri-The-Taste 3-T Brand. For Creamery Butter. 53,041; May 30.

Johnson, S. C., & Son, Inc., Racine, Wis. Johnson's Liquid Wax. For Liquid Wax. 53,042; May 30.

Lebowitz, Charles, doing business as Charles Chemical Company, Scranton, Pa. Freedom. For Metal Polish. 53,043; May 30.

Lebowitz, Charles, doing business as The Scranton Chemical Company, Scranton, Pa. Speed. For Metal Polish. 53,044; May 30.

Lebro Products. (See Brody, Leo.)

May Hosiery Mills, Inc., Burlington, N. C. Cameo. For Hosiery. 53,045; May 30.

Mead Johnson & Company, Evansville, Ind. Mead's Dextri-Maltose No. 1. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch, with Sodium Chloride 2%. 53,046; May 30.

Mead Johnson & Company, Evansville, Ind. Mead's Dextri-Maltose No. 2. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch. 53,047; May 30.

Mead Johnson & Company, Evansville, Ind. Mead's Dextri-Maltose No. 3. For Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch, with Potassium 3%. 53,048; May 30.

Mead Johnson & Company, Evansville, Ind. Mead's Dextri-Maltose with Extracts of Wheat Embryo and Yeast. For Specially Prepared Product Containing Maltose and Dextrins, with Extracts of Wheat Embryo and Yeast. 53,049; May 30.

Mead Johnson & Company, Evansville, Ind. Pablum. For Palatable Mixed Cereal Food, Vitamin and Mineral Enriched. 53,050; May 30.

Meyer, Frank Co., Co. Inc., New York, N. Y. Bette Lee. For Footwear. 53,051; May 30.

Meyer, Frank C., Co. Inc., New York, N. Y. Claudette. For Footwear. 53,052; May 30.

Meyer, Frank Co., Co. Inc., New York, N. Y. Fashion De Luxe. For Footwear. 53,053; May 30.

Meyer, Frank Co., Co. Inc., New York, N. Y. Linda Girl. For Shoes. 53,054; May 30.

Orthotonic Radio Co. (See Hadjoson, Kimon.)

Pacific Wood Products Corporation, Los Angeles, Calif. Solidkor (Slab Door). For Slab Doors. 53,055; May 30.

Pep Boys, Manny, Moe & Jack, The, doing business as Varsity Products Company, Philadelphia, Pa. Varsity. For a Polish. 53,056; May 30.

Philadelphia Seed Co., Inc., The, Philadelphia, Pa. Use Old English. For Lawn Seed. 53,057; May 30.

Pictorial Paper Package Corporation, Aurora, Ill. Your Prescription. For Individualized Medicine. 53,058; May 30.

Port, Adam, doing business as Port's Bakery, Horicon, Wis. Wisconsin Rye Bread. For Rye Bread. 53,059; May 30.

Powell, W. R., Newark, Ohio. Powell's Garden Wonder Bug Dust. For Bug Dust. 53,060; May 30.

Roach-Indiana Corporation, Gwynneville, Ind. Red twins. For Canned Tomatoes. 53,061; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Waterproof Callous Pads. For Callous Pads. 53,062; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Soft Felt Chiropodist Bunion Pads. For Bunion Pads. 53,063; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Waterproof Corn Pads. For Corn Pads. 53,064; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Corn Plasters. For Corn Plasters. 53,065; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Metatarsal Pad and Arch Support. For Metatarsal Pad and Arch Support. 53,066; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Bunion Pads Mercurochrome (H. W. & D.) Medicated. For Bunion Pads. 53,067; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Felt Corn Pads. For Corn Pads. 53,068; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Felt Bunion Pads. For Bunion Pads. 53,069; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Adhesive Felt Corn Pads. For Corn Pads. 53,070; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Waterproof Bunion Pads. For Bunion Pads. 53,071; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Kushin Felt Medicated Adhesive. For Medicated Adhesive. 53,072; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Bunion Pads. For Bunion Pads. 53,073; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Pedo Hammer Toe Pads. For Hammer Toe Pads. 53,074; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Soft Felt Chiropodist Callous Pads. For Callous Pads. 53,075; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Corn Salve. For Corn Salve. 53,076; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Medicated Moletex Corn Pads. For Corn Pads. 53,077; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Callous Pads. For Callous Pads. 53,078; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Soft Corn Pads. For Soft Corn Pads. 53,079; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Waterproof Adhesive Readymade Bandages. For Bandages. 53,080; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Soft Felt Chiropodist Corn Pads. For Corn Pads. 53,081; May 30.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot Comfort Balm. For Foot Balm. 53,082; May 30.

Scranton Chemical Company, The. (See Lebowitz, Charles.)

Thomas, Andrew J., Stillwater, Okla. Vita Vim. For Wheat Product. 53,083; May 30.

Topps Chewing Gum Inc., Brooklyn, N. Y. Chewing Gum. For Chewing Gum. 53,084; May 30.

Toro, Anthony, doing business as Tropic Medical Products Company, Brooklyn, N. Y. Hair Tonic and Hand Lotion. For a Hair Tonic and Hand Lotion. 53,085; May 30.

Tropic Medical Products Company. (See Toro, Anthony.)

Varsity Products Company. (See Pep Boys, Manny, Moe & Jack, The.)

Veldown Company, Inc., New York, N. Y. Veldown 12 Napkins. For Napkins. 53,086; May 30.

Wagner & Wurtzel Company, Perth Amboy, N. J. Butter Block. For Block Butter. 53,087; May 30.

White Company, The, Baltimore, Md. Hydrolite. For Casein Wall Paint. 53,088; May 30.

LIST OF REGISTRANTS OF PRINTS

Bear Crest Company. (See Herman, Frank J.)
General Sales Co. (See Graziano, Louis.)
Graziano, Louis, doing business as General Sales Co., Rochester, N. Y. Cooks in ½ the Time. For Ham. 17,400; May 30.
Hamilton Watch Company, Lancaster, Pa. Hamilton—The Graduates Choice. For Watches. 17,401; May 30.
Hampden Brewing Company, Willimansett, Mass. Good Measure. For Ale and Beer. 17,402–3; May 30.
Herd, James E., Knoxville, Tenn. Herd's System. For Rugs. 17,404; May 30.
Herd, James E., Knoxville, Tenn. Herd's System. For Blankets. 17,405; May 30.
Herman, Frank J., doing business as Bear Crest Company, Los Angeles, Calif. Gum-Bal-Let. For Dental Instrument. 17,406; May 30.
Hipsh, Inc., Kansas City, Mo. Blue Ridge Mountain Hand Woven Cravats. For Cravats. 17,407; May 30.
Morali, Charles, Forest Hills, N. Y. Wear Cushonet Shoes and Walk Miles With a Smile. For Shoes. 17,408; May 30.
Parke, Davis & Company, Detroit, Mich. Infection Gives No Warning. For Surgical Dressings. 17,409; May 30.
Parker Pen Company, The, Janesville, Wis. Tell Us Why the Parker is America's Most Popular Gift-Pen. For Fountain Pens, Mechanical Pencils and Ink. 17,410; May 30.
Soft-Lite Lens Co., Inc., New York, N. Y. Are Your Eyes Asking for Help? For Lenses. 17,411; May 30.
Sovereign Oil Company, not inc., Chicago, Ill. Sovereign Dual Mileage Now in Sealed Cans. For Motor Oil. 17,412; May 30.
Tasty Baking Company, Philadelphia, Pa. Stop for Tasty-Pie. For Pie. 17,413; May 30.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Anthracite. Seiler Coal Co. 367,916; May 30.
Leather. B. D. Eisendrath Tanning Company. 367,823; May 30; Serial No. 414,439; published Mar. 21, 1939.
Seed corn or grains. National Hybrid Corn Company. 367,904; May 30.

CLASS 2

Boxes, cases, receptacles, and casings. Gorham Manufacturing Company. 367,769; May 30; Serial No. 411,271; published Mar. 21, 1939.
Cans, boxes, and cartons of paper or fiber. American Can Company. 126,120; renewed July 29, 1939.

CLASS 3

Handbags. S. Koret. 367,770; May 30; Serial No. 411,501; published Mar. 21, 1939.
Trunks, hat and shoe trunks, etc., Wardrobe. Belber Trunk & Bag Company. 367,900; May 30.

CLASS 4

Cleansing and polishing compounds. Economics Laboratory, Incorporated. 367,860–1; May 30; Serial Nos. 414,870–1; published Mar. 21, 1939.
Lotion. Pre-shaving face. Hi-Ho Company. 367,746; May 30; Serial No. 407,547; published Mar. 21, 1939.
Soap powder. A. Hohnhold. 367,774; May 30; Serial No. 412,032; published Mar. 21, 1939.
Soap, Toilet. Colgate-Palmolive-Peet Company. 367,778; May 30; Serial No. 412,170; published Mar. 21, 1939.

CLASS 5

Adhesives containing starch. Stein, Hall & Company. 367,788; May 30; Serial No. 413,368; published Mar. 14, 1939.
Binder sold as a core binder, Cereal. Chas. A. Krause Milling Co. 367,750; May 30; Serial No. 408,280; published Mar. 21, 1939.

CLASS 6

Dentifrice and talcum powder. Peninsular Chemical Co. 126,748; renewed Sept. 30, 1939.
Ink eradicators. Cardinell Corporation. 367,903; May 30.
Insecticides and fungicides. Miller Chemical & Fertilizer Corp. 367,921; May 30.
Medicinal preparation. S. Pfeiffer Manufacturing Company. 126,952; renewed Oct. 14, 1939.
Medicinal preparations. Sandoz Chemical Works, Inc. 367,897–8; May 30; Serial Nos. 415,263–4; published Mar. 28, 1939.
Ointment. F. W. Duenckel. 126,669; renewed Sept. 30, 1939.
Powders, Toilet. Palmolive Company. 126,462; renewed Aug. 26, 1939.
Preparation used for massaging the gums. Pearson Pharmacal Company. 367,906; May 30.

CLASS 7

Rope, cord, twine. American Manufacturing Company. 125,775; renewed June 17, 1939.

CLASS 8

Jars or containers for cigars and the like. Owens-Illinois Glass Company. 367,756; May 30; Serial No. 409,740; published Mar. 21, 1939.

CLASS 12

Building and structural material. Agasote Millboard Co. 126,506; renewed Sept. 16, 1939.

Coating materials, Protective. Thermal Products Corporation. 367,773; May 30; Serial No. 411,914; published Mar. 14, 1939.
Framing elements for buildings, Metal. Great Lakes Steel Corporation. 367,793; May 30; Serial No. 413,580; published Mar. 7, 1939.
Guide channel members for use in storm window construction. M. F. Gagnier. 367,776; May 30; Serial No. 412,129; published Mar. 21, 1939.
Mortar, Masonry. Ladd Lime & Stone Co. 367,817; May 30; Serial No. 414,265; published Mar. 14, 1939.
Paneling, Decorative laminated. Formica Insulation Company. 367,732; May 30; Serial No. 404,404; published Mar. 21, 1939.
Plastic compound, Sound deadening. J. W. Mortell Company. 367,857; May 30; Serial No. 414,829; published Mar. 14, 1939.
Roofing materials. Tilo Roofing Company. 367,735; May 30; Serial No. 404,964; published Mar. 14, 1939.
Shingles and roll roofing, Composition. Artic Roofings, Inc. 367,852; May 30; Serial No. 414,767; published Mar. 21, 1939.
Shingles and roll roofing, Composition. Artic Roofings, Inc. 367,853–4; May 30; Serial Nos. 414,768–9; published Mar. 14, 1939.
Shingles, Red cedar. Red Cedar Shingle Bureau. 367,764; May 30; Serial No. 410,749; published Mar. 21, 1939.
Tiles, slabs, blocks, insulation for oil lines, etc., Wall and floor. Franklin Tile Company. 367,783; May 30; Serial No. 413,041; published Mar. 7, 1939.
Wall-finishes, plastic compounds, etc. J. B. King & Co. 16,825; re-renewed July 16, 1939.
Windows, doors, shutter blinds, etc. E. S. Persson. 367,753; May 30; Serial No. 408,738; published Mar. 21, 1939.

CLASS 13

Curtains, Shower. Joseph A. Kaplan, Inc. 367,730; May 30; Serial No. 402,888; published Mar. 21, 1939.
Valve stems, Tire. Goodyear Tire & Rubber Company. 367,818; May 30; Serial No. 414,316; published Mar. 21, 1939.
Valves, Pressure regulator. Modern Engineering Company. 367,922; May 30.

CLASS 14

Magnesium alloys, and castings and forgings, rolled sheets, etc. Briske & Prohl. 367,743; May 30; Serial No. 407,060; published Mar. 21, 1939.

CLASS 15

Gasoline. Staten Island Home Utilities, Inc. 367,790; May 30; Serial No. 413,490; published Mar. 21, 1939.
Oil in bottles of quart sizes, Motor. H. W. Bedford. 367,794–6; May 30; Serial Nos. 413,757–9; published Mar. 14, 1939.

CLASS 16

Paint, House. Sears, Roebuck and Co. 367,863; May 30. Serial No. 414,897; published Mar. 21, 1939.
Paints, sealers, primers, etc. Standard Varnish Works. 367,850; May 30; Serial No. 414,757; published Mar. 21, 1939.
Varnishes. J. B. Cornish. 125,203; renewed Apr. 22, 1939.
Zinc oxids. American Zinc, Lead & Smelting Co. 126,821; renewed Oct. 7, 1939.
Zinc oxids. American Zinc, Lead & Smelting Co. 126,627–8; renewed Sept. 30, 1939.

CLASS 17

Cigarettes, cigars, and smoking tobacco. L. Aronowitz. 367,843–4; May 30; Serial Nos. 414,677–8; published Mar. 21, 1939.

Cigars. General Cigar Co. 125,431; renewed May 20, 1939.
Cigars. United Cigar Manufacturers Company. 125,713; renewed June 3, 1939.
Cigars. Waitt & Bond, Inc. 367,814; May 30; Serial No. 414,210; published Mar. 21, 1939.
Cigars, cigarettes, and tobacco. J. B. Murphy. 367,834; May 30; Serial No. 414,602; published Mar. 21, 1939.
Cigars, little cigars, cheroots, etc. General Cigar Co. 126,161; renewed July 29, 1939.

CLASS 19

Airplanes and structural parts thereof. Douglas Aircraft Company. 367,720; May 30; Serial No. 396,262; published Mar. 21, 1939.

CLASS 21

Batteries, Storage. Firestone Tire & Rubber Company. 367,874; May 30; Serial No. 415,077; published Mar. 21, 1939.
Conductors, Insulated electrical. Marlin-Rockwell Corporation. 127,084; renewed Oct. 21, 1939.
Lamp for vehicles, Electric head. Trippe Manufacturing Company. 367,781; May 30; Serial No. 412,313; published Mar. 21, 1939.
Light holder, Telephone dial. Allison & Roth. 367,899; May 30.
Search-lights, and flood-light projectors, Electric. Sperry Gyroscope Company. 126,580; renewed Sept. 16, 1939.
Sockets, Electric-lamp. Despard & Gordon Company. 125,627; renewed June 3, 1939.

CLASS 22

Dolls. American Character Doll Co. Inc. 367,718; May 30; Serial No. 392,306; published Mar. 21, 1939.
Fly boxes. Shoe Form Co. 367,891; May 30; Serial No. 415,744; published Mar. 21, 1939.
Games. W. T. Graff, Jr. 367,806; May 30; Serial No. 414,028; published Mar. 21, 1939.
Games, Board. L. S. Henderson. 367,880; May 30; Serial No. 415,249; published Mar. 21, 1939.

CLASS 23

Cultivating and harvesting machinery, and parts thereof, Self-driven. Hume-Love Company. 367,765; May 30; Serial No. 410,908; published Dec. 20, 1938.
Dispensing machines, Coin-operated beverage. Spacarb, Inc. 367,797; May 30; Serial No. 413,801; published Mar. 21, 1939.
Files and rasps. Rex File Company. 126,958; renewed Oct. 14, 1939.
Grinding machines, Portable. A. P. de Sanno & Son, Inc. 367,873; May 30; Serial No. 415,075; published Mar. 21, 1939.
Machines for soil cultivation and parts of such machines. Maine Steel, Inc. 367,747; May 30; Serial No. 407,597; published Mar. 21, 1939.
Milking-machines. Pine Tree Milking Machine Co. 125,500; renewed May 20, 1939.
Planes and hammers. Capewell Manufacturing Company. 367,872; May 30; Serial No. 415,072; published Mar. 21, 1939.
Planes, fibre board cutters, scrapers, etc. Stabley Works. 367,727; May 30; Serial No. 402,146; published Mar. 21, 1939.
Tool, Stainless steel hand. Fisher Scientific Company. 367,785; May 30; Serial No. 413,303; published Mar. 21, 1939.
Tools, Rotary honing and grinding. Micromatic Hone Corporation. 367,799–800; May 30; Serial Nos. 413,836–7; published Mar. 21, 1939.

CLASS 26

Apparatus for use in effecting the synchronization of a plurality of internal combustion engines. Synchro-Lock, Inc. 367,870; May 30; Serial No. 415,015; published Mar. 21, 1939.
Flash, for cameras and camera attachments, micromatic speed. Kalart Company. 367,733; May 30; Serial No. 404,540; published Sept. 27, 1938.
Gauges, Liquid level. Zip Abrasive Company. 367,791; May 30; Serial No. 413,529; published Mar. 21, 1939.
Lenses. S. Matsunami. 127,088; renewed Oct. 21, 1939.
Rules, levels, plumbs, etc. Stanley Works. 367,726; May 30; Serial No. 402,145; published Mar. 21, 1939.

CLASS 27

Clocks and watches. General Time Instruments Corporation. 367,905; May 30.
Clocks, Electric. Ansonia Clock Company. 367,789; May 30; Serial No. 413,432; published Mar. 21, 1939.

CLASS 28

Brushes and brush sets and whisk brooms and hair brushes. Herman Cohn Leather Goods Company. 367,762; May 30; Serial No. 410,575; published Mar. 14, 1939.
Flatware, Silver-plated. International Silver Company. 367,849; May 30; Serial No. 414,740; published Mar. 21, 1939.
Flatware, Silverplated. Oneida Ltd. 367,879; May 30; Serial No. 415,226; published Mar. 21, 1939.
Jewelry. M. H. Shiman & Co. Inc. 367,760; May 30; Serial No. 410,491; published Mar. 14, 1939.
Jewelry and articles of personal adornment. I. Roskin Company. 367,792; May 30; Serial No. 413,561; published Mar. 14, 1939.
Rings, Gold finger. Dattelbaum & Friedman. 126,932; renewed Oct. 14, 1939.

CLASS 29

Brushes. Stanley Home Products, Inc. 367,912; May 30.
Devices for oral hygiene. Lactona, Incorporated. 367,740; May 30; Serial No. 406,454; published Mar. 21, 1939.

CLASS 32

Cushions, pillows, mattresses, etc. Goodyear Tire & Rubber Company. 367,893; May 30; Serial No. 415,774; published Mar. 21, 1939.
Mattresses. Superior Felt & Bedding Company. 367,882; May 30; Serial No. 415,358; published Mar. 21, 1939.
Mattresses, box springs, and upholstered furniture. Capitol Bedding Co. 367,739; May 30; Serial No. 405,803; published Mar. 21, 1939.
Spring assemblies for upholstery and upholstery units equipped with spring assemblies. Nachman Springfilled Corporation. 367,838; May 30; Serial No. 414,641; published Mar. 21, 1939.

CLASS 34

Burners, Oil. Home Oil Heating Company. 367,741; May 30; Serial No. 406,715; published Mar. 21, 1939.
Reflector for electric lamps, Light. Frank Kelley, Inc. 367,815; May 30; Serial No. 414,228; published Mar. 21, 1939.

CLASS 35

Belts. Gates Rubber Company. 127,044; renewed Oct. 21, 1939.
Packing, Joint. Azor Corporation. 367,886–7; May 30; Serial Nos. 415,624–5; published Mar. 21, 1939.
Packing, Metallic plastic. National Engineering Products, Inc. 367,894; May 30; Serial No. 415,909; published Mar. 21, 1939.
Piston rings. Muskegon Piston Ring Company. 367,888; May 30; Serial No. 415,661; published Mar. 21, 1939.
Tire casings. Armstrong Rubber Company. 367,896; May 30; Serial No. 416,026; published Mar. 21, 1939.
Tires. Kelly-Springfield Tire Company. 367,890; May 30; Serial No. 415,717; published Mar. 21, 1939.

CLASS 36

Needles for talking machines. RCA Manufacturing Company. 367,821; May 30; Serial No. 414,366; published Mar. 21, 1939.
Pianos. Aeolian American Corporation. 367,867; May 30; Serial No. 414,978; published Mar. 21, 1939.
Transcriptions, Electrical. Empire Broadcasting Corporation. 367,868; May 30; Serial No. 414,989; published Mar. 21, 1939.

CLASS 37

Books, loose leaf fillers and binders, Composition. S. E. & M. Vernon, Inc. 367,884; May 30; Serial No. 415,614; published Mar. 21, 1939.
Duplicating devices. Sears, Roebuck and Co. 367,751; May 30; Serial No. 408,326; published Mar. 21, 1939.
Envelops, Mailing. Gopher Envelope Company. 126,687; renewed Sept. 30, 1939.
Eraser, Combination pen and ink. Spencerian Pen Company. 367,841; May 30; Serial No. 414,670; published Mar. 21, 1939.
Paper and cardboard. Eastern Manufacturing Company. 126,673; renewed Sept. 30, 1939.
Paper box partitions. W. J. Bradford Paper Company. 367,909; May 30.
Paper coated with a silver-like coating. Nashua Gummed and Coated Paper Company. 125,907; renewed July 8, 1939.
Paper, Condenser. Stevens Paper Mills, Incorporated. 367,755; May 30; Serial No. 409,712; published Mar. 21, 1939.
Paper, Cover. Clopay Corporation. 367,803–4; May 30; Serial Nos. 413,896–7; published Mar. 21, 1939.
Paper toilet seat covers. Consolidated Cover Co. 367,881; May 30; Serial No. 415,327; published Mar. 21, 1939.
Pens and pencils. G. Kapp. 367,847; May 30; Serial No. 414,700; published Mar. 21, 1939.
Pens, Fountain. David Kahn, Inc. 367,724; May 30; Serial No. 401,670; published Mar. 21, 1939.

CLASS 38

Cartoon series. King Features Syndicate, Inc. 367,876; May 30; Serial No. 415,128; published Mar. 14, 1939.
Column or section in a monthly magazine. Parents' Institute, Inc. 367,827; May 30; Serial No. 414,503; published Mar. 14, 1939.
Heading of a department of a periodical. Concrete Publishing Corporation. 367,825; May 30; Serial No. 414,485; published Mar. 14, 1939.
Magazine. Conde Nast Publications, Inc. 367,833; May 30; Serial No. 414,594; published Mar. 14, 1939.
Magazine. J. E. Mooney. 367,830; May 30; Serial No. 414,545; published Mar. 21, 1939.
Magazine or periodical. Listeners Digest, Inc. 367,856; May 30; Serial No. 414,827; published Mar. 21, 1939.

News column and special articles. E. M. Patterson. 367,871; May 30; Serial No. 415,055; published Mar. 14, 1939.
Periodical. Methodist Book Concern. 367,875; May 30; Serial No. 415,086; published Mar. 14, 1939.
Posters, Window. Shellmar Products Company. 367,824; May 30; Serial No. 414,472; published Mar. 21, 1939.
Prints, Photographic. B. F. Feiner, Jr. 367,809; May 30; Serial No. 414,062; published Mar. 21, 1939.
Publication. International Toastmistress Clubs. 367,826; May 30; Serial No. 414,497; published Mar. 14, 1939.
Publication. Miller Publishing Co. 367,869; May 30; Serial No. 415,007; published Mar. 14, 1939.
Publication. Trade Newspapers Corporation. 367,851; May 30; Serial No. 414,760; published Mar. 14, 1939.
Publication, Periodical. L. M. Rogers. 367,831–2; May 30; Serial Nos. 414,547–8; published Mar. 14, 1939.
Publications. I. Mininberg. 367,839; May 30; Serial No. 414,667; published Mar. 14, 1939.
Signs and printed billboard sheets, Printed advertising. J. Jasper. 367,784; May 30; Serial No. 413,046; published Mar. 21, 1939.
Signs, Printed advertising. Hearst Magazines Inc. 367,761; May 30; Serial No. 410,505; published Mar. 14, 1939.
Transparent sheets, Printed color comparing. Clarence S. Brown & Co. 367,805; May 30; Serial No. 413,928; published Mar. 14, 1939.

CLASS 39

Blouses, shirts, skirts, and dresses. Adelaar Bros., Inc. 367,864; May 30; Serial No. 414,939; published Mar. 21, 1939.
Boots and shoes, overshoes, etc., Rubber. Hood Rubber Company. 125,292; renewed May 6, 1939.
Chemises, princess slips, bloomers, etc. I. Schneierson & Sons, Inc. 367,822; May 30; Serial No. 414,371; published Mar. 14, 1939.
Clothing. Ashford Underwear Co. 126,379; renewed Aug. 26, 1939.
Clothing. Magic Snap-On Dress Co. 367,729; May 30; Serial No. 402,381; published Mar. 21, 1939.
Clothing for women. Russeks Fifth Avenue, Inc. 367,819; May 30; Serial No. 414,324; published Mar. 21, 1939.
Clothing, Women's, misses', and children's. M. Sobelman. 367,902; May 30.
Coats, raincoats, overcoats, etc. Mansbrooke Rainwear Co. 367,810; May 30; Serial No. 414,075; published Mar. 14, 1939.
Collars and cuffs. Cluett, Peabody & Co. 127,011; renewed Oct. 21, 1939.
Dresses. David Crystal, Inc. 367,848; May 30; Serial No. 414,727; published Mar. 21, 1939.
Dresses. Fred Perlberg, Inc. 367,813; May 30; Serial No. 414,201; published Mar. 14, 1939.
Dresses, Ladies' and misses'. Debutante Frocks Inc. 367,722; May 30; Serial No. 398,151; published Dec. 21, 1937.
Dresses, wraps, coats, etc. Fleetwood Sportwear Co. Inc. 367,907; May 30.
Hosiery. Elastic Toe Corporation. 367,820; May 30; Serial No. 414,342; published Mar. 14, 1939.
Hosiery. Interwoven Stocking Company. 367,775; May 30; Serial No. 412,101; published Jan. 3, 1939.
Hosiery. G. Marquette. 367,917; May 30.
Millinery, and clothing for women. Fashion Life, Inc. 367,721; May 30; Serial No. 396,656; published Dec. 28, 1937.
Overcoats. Leopold Morse Company. 367,787; May 30; Serial No. 413,351; published Mar. 14, 1939.
Overcoats and topcoats, Men's. L. Weinberg. 367,812; May 30; Serial No. 414,172; published Mar. 21, 1939.
Pajamas. Sanders & Jungreis. 367,835; May 30; Serial No. 414,605; published Mar. 14, 1939.
Pants, trousers, and slacks. Tarshes Bros., Inc. 367,828; May 30; Serial No. 414,540; published Mar. 14, 1939.
Shirts and pajamas. Enro Shirt Co. 367,846; May 30; Serial No. 414,693; published Mar. 14, 1939.
Shirts for officers in the military service. Tarshes Bros., Inc. 367,829; May 30; Serial No. 414,541; published Mar. 14, 1939.
Shirts, pajamas, underwear, etc. Southland Manufacturing Company. 367,811; May 30; Serial No. 414,164; published Mar. 14, 1939.
Slips. Bregstein-Richman Inc. 367,816; May 30; Serial No. 414,254; published Mar. 14, 1939.
Slips, sweaters, bathing suits, etc. Augusta Knitting Corporation. 367,742; May 30; Serial No. 407,049; published Aug. 23, 1938.
Sportwear, and dresses, Knitted. Old Colony Knitting Mills, Inc. 367,716; May 30; Serial No. 389,917; published July 5, 1938.
Sportwear, Knitted. Ellen Kay Knitting Mills, Inc. 367,782; May 30; Serial No. 412,701; published Mar. 21, 1939.
Suit, Oil silk rain. B. Holt. 367,802; May 30; Serial No. 413,869; published Mar. 14, 1939.
Suits, Bathing. Central Knitwear Mills, Inc. 367,845; May 30; Serial No. 414,685; published Mar. 14, 1939.
Suits, dresses, coats, etc. Gantner & Mattern Company. 367,736; May 30; Serial No. 405,110; published Mar. 14, 1939.
Suits, overcoats, jackets, etc. May Department Stores Company. 367,771; May 30; Serial No. 411,506; published Mar. 14, 1939.
Sweaters, Knitted. Roper Knitting Company. 367,777; May 30; Serial No. 412,156; published Mar. 14, 1939.
Sweaters, Ladies'. Jenath Knitwear, Inc. 367,798; May 30; Serial No. 413,829; published Mar. 14, 1939.
Topcoats, overcoats, coats, etc. L. Greif & Bro., Inc. 367,759; May 30; Serial No. 410,291; published Mar. 14, 1939.

CLASS 42

Blankets. Esmond Mills. 367,728; May 30; Serial No. 402,333; published Mar. 21, 1939.
Corduroys. Crompton Company. 126,834; renewed Oct. 7, 1939.
Cotton fabric. Clarence S. Brown & Company. 367,908; May 30.
Fabrics, Textile. Samuel Serwer & Sons. 367,858; May 30; Serial No. 414,853; published Mar. 21, 1939.
Piece goods. Celanese Corporation of America. 367,855; May 30; Serial No. 414,820; published Mar. 21, 1939.
Prints, drills, and denims. J. L. Stifel & Sons. 126,908; renewed Oct. 7, 1939.
Rayon piece goods. Industrial Rayon Corporation. 367,758; May 30; Serial No. 410,138; published Mar. 21, 1939.
Rugs. Stitt & Howell, Inc. 367,749; May 30; Serial No. 407,996; published Mar. 21, 1939.

CLASS 43

Cotton, cotton yarn, etc., Crochet and sewing. Mt. Vernon-Woodberry Mills, Inc. 367,766; May 30; Serial No. 411,131; published Mar. 14, 1939.
Thread. American Thread Company. 367,878; May 30; Serial No. 415,207; published Mar. 21, 1939.
Thread and yarn. North American Rayon Corporation. 367,731; May 30; Serial No. 403,323; published Mar. 14, 1939.
Yarn. Industrial Rayon Corporation. 367,754; May 30; Serial No. 409,574; published Mar. 14, 1939.

CLASS 44

Lamps for use as a therapeutic agent, Electric. Elgin Laboratories, Inc. 367,801; May 30; Serial No. 413,862; published Mar. 21, 1939.
Surgical dressings. Kimberly-Clark Co. 126,706; renewed Sept. 30, 1939.

CLASS 45

Beverages, Maltless. Mr. Newport, Inc. 367,763; May 30; Serial No. 410,745; published Mar. 21, 1939.

CLASS 46

Bread. W. J. Fitzpatrick Company. 367,786; May 30; Serial No. 413,304; published Mar. 21, 1939.
Candies, Cools, Inc. 367,737; May 30; Serial No. 405,197; published Mar. 21, 1939.
Candy. Edgar P. Lewis & Sons, Inc. 367,920; May 30.
Cereals, Breakfast. Quaker Oats Company. 367,913; May 30.
Cheese. Holland Food Corporation. 367,836; May 30; Serial No. 414,609; published Mar. 21, 1939.
Chicken and French fried potatoes, Fried. Chicken Shack, Incorporated. 367,719; May 30; Serial No. 395,019; published Aug. 30, 1938.
Chocolates. Miller & Hollis, Inc. 367,918–19; May 30.
Coffee. Standard Brands Incorporated. 367,842; May 30; Serial No. 414,674; published Mar. 21, 1939.
Confections and crackers, Frozen. Joe Lowe Corporation. 367,865–6; May 30; Serial Nos. 414,955–6; published Mar. 21, 1939.
Confections and fruit syrups, Frozen. Joe Lowe Corporation. 367,723; May 30; Serial No. 401,310; published Aug. 9, 1938.
Confections, Frozen. Frozen Novelties, Inc. 367,725; May 30; Serial No. 401,776; published Mar. 21, 1939.
Crackers. Associated Biscuit Co. 367,772; May 30; Serial No. 411,563; published Mar. 21, 1939.
Flour, fresh grapes, apples, etc., Wheat. Connell Bros. Company Limited. 367,752; May 30; Serial No. 408,564; published Mar. 21, 1939.
Food product ingredients. American Soya Products Corporation. 367,859; May 30; Serial No. 414,855; published Mar. 21, 1939.
Food products, Prepared. Riviera Packing Company. 367,862; May 30; Serial No. 414,891; published Mar. 21, 1939.
Foods. John Morrell & Co. 127,094; renewed Oct. 21, 1939.
Fruit, Fresh citrus. Call Ranch. 367,745; May 30; Serial No. 407,128; published Mar. 14, 1939.
Gum, Chewing. O-Pee-Chee Company Limited. 367,748; May 30; Serial No. 407,966; published Mar. 21, 1939.
Malt preparation, Chocolate flavored. Nutro Food Products Company. 367,915; May 30.
Milk and cream, butter, etc., Fresh. C. E. Pope. 367,901; May 30.
Oil, Edible. Southern Cotton Oil Company. 127,140–2; renewed Oct. 21, 1939.
Oil, Edible. Southern Cotton Oil Company. 127,204; renewed Oct. 21, 1939.

Oils, rice and conserves, Edible and olive. Pyramid Commercial Corporation. 367,738; May 30; Serial No. 405,268; published Mar. 21, 1939.
Peanut butter and roasted peanuts. E. F. Lane & Son. 367,734; May 30; Serial No. 404,856; published Mar. 21, 1939.
Pop corn. Popcorn Growers and Distributors, Inc. 367,717; May 30; Serial No. 383,939; published Mar. 21, 1939.
Relish, sour chow chow, sweet chow chow, etc., Sweet. Packard-Bamberger & Co. 367,914; May 30.
Sausages. Danahy Packing Company. 127,020; renewed Oct. 21, 1939.
Shortening compound, Cotton-seed-oil. Southern Cotton Oil Company. 127,143; renewed Oct. 21, 1939.
Toffee, chocolate covered toffee, and boiled sweets. George W. Horner & Co. Limited. 367,779–80; May 30; Serial Nos. 412,186–7; published Feb. 14, 1939.
Vegetable-oil product for salads and cooking. N. K. Fairbank Company. 16,678; renewed Sept. 30, 1939.

CLASS 47

Wines, Champagne. Maison Moet & Chandon Fondée en 1743, Société Anonyme. 367,910–11; May 30.

CLASS 48

Ale. J. Ruppert. 367,808; May 30; Serial No. 414,042; published Mar. 21, 1939.
Beer and ale. Iroquois Beverage Corporation. 367,767–8; May 30; Serial Nos. 411,165–6; published Dec. 6, 1938.

CLASS 49

Rock and rye, rock and rum, vermuth and whiskey, etc. National Cordial Co. 367,883; May 30; Serial No. 415,606; published Mar. 21, 1939.
Whiskey. Jack Dempsey & Co. 367,895; May 30; Serial No. 415,929; published Mar. 21, 1939.
Whiskey. Great Atlantic & Pacific Tea Company. 367,877; May 30; Serial No. 415,162; published Mar. 21, 1939.
Whiskey. Hiram Walker & Sons Inc. 367,885; May 30; Serial No. 415,616; published Mar. 21, 1939.
Whiskey, gin, rum, etc. Wilken Family, Incorporated. 367,892; May 30; Serial No. 415,751; published Mar. 21, 1939.
Whisky. Dublin Distillers Company. 125,801; renewed June 17, 1939.
Whisky, brandy, rum, etc. Dolamore, Limited. 367,889; May 30; Serial No. 415,706; published Mar. 21, 1939.

CLASS 50

Buttons, badges, medallions, etc., Lapel. I. Olenik. 367,840; May 30; Serial No. 414,668; published Mar. 21, 1939.
Feeders, Incubators, watering fountains, etc., Poultry. Globe American Corporation. 367,744; May 30; Serial No. 407,063; published Mar. 21, 1939.
Ladders. Moulton Ladder Manufacturing Co. 367,837; May 30; Serial No. 414,637; published Mar. 21, 1939.
Mats for printed media. S. L. Kornfeld. 367,757; May 30; Serial No. 410,095; published Mar. 21, 1939.
Pads, Absorbent. Joy Products Corporation. 367,807; May 30; Serial No. 414,030; published Mar. 21, 1939.

LIST OF LABELS

Amick's Imp Tago. For an Ointment for the Treatment of Impetigo. W. Amick. 53,022; May 30.
Ballantine's. For Liqueur Blended Scotch Whisky. Geo. Ballantine & Son Ltd. 53,023; May 30.
Beech-Nut Brand Sliced Bacon. For Sliced Bacon. Beech-Nut Packing Company. 53,025; May 30.
Beech-Nut Fruited Oat Cookies. For Fruited Oat Cookies. Beech-Nut Packing Company. 53,024; May 30.
Bette Lee. For Footwear. Frank C. Meyer Co. Inc. 53,051; May 30.
Butter Block. For Block Butter. Wagner & Wurtzel Company. 53,087; May 30.
Cameo. For Hosiery. May Hosiery Mills, Inc. 53,045; May 30.
Chewing Gum. For Chewing Gum. Topps Chewing Gum Inc. 53,084; May 30.
Claudette. For Footwear. Frank C. Meyer Co. Inc. 53,052; May 30.
Fashion DeLuxe. For Footwear. Frank C. Meyer Co. Inc. 53,053; May 30.
Foot Comfort Adhesive Felt Corn Pads. For Corn Pads. Scholl Mfg. Co. Inc. 53,070; May 30.
Foot Comfort Balm. For Foot Balm. Scholl Mfg. Co. Inc. 53,082; May 30.
Foot Comfort Bunion Pads. For Bunion Pads. Scholl Mfg. Co. Inc. 53,073; May 30.
Foot Comfort Bunion Pads Mercurochrome (H. W. & D.) Medicated. For Bunion Pads. Scholl Mfg. Co. Inc. 53,067; May 30.
Foot Comfort Callous Pads. For Callous Pads. Scholl Mfg. Co. Inc. 53,078; May 30.
Foot Comfort Corn Plasters. For Corn Plasters. Scholl Mfg. Co. Inc. 53,065; May 30.
Foot Comfort Corn Salve. For Corn Salve. Scholl Mfg. Co. Inc. 53,076; May 30.
Foot Comfort Felt Bunion Pads. For Bunion Pads. Scholl Mfg. Co. Inc. 53,069; May 30.
Foot Comfort Felt Corn Pads. For Corn Pads. Scholl Mfg. Co. Inc. 53,068; May 30.
Foot Comfort Kushin Felt Medicated Adhesive. For Medicated Adhesive. Scholl Mfg. Co. Inc. 53,072; May 30.
Foot Comfort Medicated Moletex Corn Pads. For Corn Pads. Scholl Mfg. Co. Inc. 53,077; May 30.
Foot Comfort Metatarsal Pad and Arch Support. For Metatarsal Pad and Arch Support. Scholl Mfg. Co. Inc. 53,066; May 30.
Foot Comfort Pedo Hammer Toe Pads. For Hammer Toe Pads. Scholl Mfg. Co. Inc. 53,074; May 30.
Foot Comfort Soft Corn Pads. For Soft Corn Pads. Scholl Mfg. Co. Inc. 53,079; May 30.
Foot Comfort Soft Felt Chiropodist Bunion Pads. For Bunion Pads. Scholl Mfg. Co. Inc. 53,063; May 30.
Foot Comfort Soft Felt Chiropodist Callous Pads. For Callous Pads. Scholl Mfg. Co. Inc. 53,075; May 30.
Foot Comfort Soft Felt Chiropodist Corn Pads. For Corn Pads. Scholl Mfg. Co. Inc. 53,081; May 30.
Foot Comfort Waterproof Adhesive Readymade Bandages. For Bandages. Scholl Mfg. Co. Inc. 53,080; May 30.
Foot Comfort Waterproof Bunion Pads. For Bunion Pads. Scholl Mfg. Co. Inc. 53,071; May 30.
Foot Comfort Waterproof Callous Pads. For Callous Pads. Scholl Mfg. Co. Inc. 53,062; May 30.
Foot Comfort Waterproof Corn Pads. For Corn Pads. Scholl Mfg. Co. Inc. 53,064; May 30.
Freedom. For Metal Polish. C. Lebowitz. 53,043; May 30.
Gilbert American Flyer Scale Trains and Equipment. For Scale Trains and Equipment. A. C. Gilbert Company. 53,034; May 30.
Golden Flake. For Buttermilk. G. P. Gundlach. 53,035; May 30.
Hair Tonic and Hand Lotion. For a Hair Tonic and Hand Lotion. A. Toro. 63,085; May 30.
Hydrolite. For Casein Wall Paint. White Company. 53,088; May 30.
Iris. For Bird Seed. Haas, Baruch & Co. 53,039; May 30.
Johnson's Liquid Wax. For Liquid Wax. S. C. Johnson & Son, Inc. 53,042; May 30.
Linda Girl. For Shoes. Frank C. Meyer Co. Inc. 53,054; May 30.
Mead's Dextri-Maltose No. 1. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch, with Sodium Chloride 2%. Mead Johnson & Company. 53,046; May 30.
Mead's Dextri-Maltose with Extracts of Wheat Embryo and Yeast. For Specially Prepared Product Containing Maltose and Dextrins, with Extracts of Wheat Embryo and Yeast. Mead Johnson & Company. 53,049; May 30.
Mead's Dextri-Maltose No. 3. For Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch, with Potassium 3%. Mead Johnson & Company. 53,048; May 30.
Mead's Dextri-Maltose No. 2. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch. Mead Johnson & Company. 53,047; May 30.
Mellow Milk. For Milk. G. P. Gundlach. 53,036; May 30.
Mel-O-Rich. For Homogenized Milk. G. P. Gundlach. 53,037; May 30.
Mistletoe. For Distilled Dry Gin. Philip Blum & Company. 53,027; May 30.
Pablum. For Palatable Mixed Cereal Food, Vitamin and Mineral Enriched. Mead Johnson & Company. 53,050; May 30.
Powell's Garden Wonder Bug Dust. For Bug Dust. W. R. Powell. 53,060; May 30.
Pronto. For Italian Style Ravioli with Mushroom Sauce. Emm-An-Cee Co. 53,031; May 30.
Red Twins. For Canned Tomatoes. Roach-Indiana Corporation. 53,061; May 30.
Richtest. For Canned Grapefruit Juice. Florida Fruit Canners, Inc. 53,032; May 30.
Royaline. For Petroleum Jelly. Clyde Collins, Inc. 53,030; May 30.
Ruby. For Sloe Gin. Philip Blum & Company. 53,026; May 30.
Snow-White. For Washing Fluid. L. Brody. 53,028; May 30.
Softasilk. For Cake Flour. General Mills, Inc. 53,033; May 30.
Solidkor (Slab Door). For Slab Doors. Pacific Wood Products Corporation. 53,055; May 30.
Speed. For Metal Polish. C. Lebowitz. 53,044; May 30.
Super-Ortho-Tonic. For Radio-Phonographs. K. Hadjoson. 53,040; May 30.

Tri-The-Taste 3-T Brand. For Creamery Butter. Hahn's Creameries, Inc. 53,041; May 30.
Twin Sisters Eye Pick-Ups. For Saturated Masks for Tired Eyes. Clark-Millner Co. 53,029; May 30.
Use Old English. For Lawn Seed. Philadelphia Seed Co. 53,057; May 30.
Varsity. For a Polish. Pep Boys, Manny, Moe & Jack. 53,056; May 30.
Veldown 12 Napkins. For Napkins. Veldown Company. 53,086; May 30.
Vita Vim. For Wheat Product. A. J. Thomas. 53,083; May 30.
Whitehouse. For Ice Cream. G. P. Gundlach. 53,038; May 30.
Wisconsin Rye Bread. For Rye Bread. A. Port. 53,059; May 30.
Your Prescription. For Individualized Medicine. Pictorial Paper Package Corporation. 53,058; May 30.

LIST OF PRINTS

Are Your Eyes Asking for Help? For Lenses. Soft-Lite Lens Co. 17,411; May 30.
Blue Ridge Mountain Hand Woven Cravats. For Cravats. Hipsh, Inc. 17,407; May 30.
Cooks in ½ the Time. For Ham. L. Graziano. 17,400; May 30.
Good Measure. For Ale and Beer. Hampden Brewing Company. 17,402–3; May 30.
Gum-Bal-Let. For Dental Instrument. F. J. Herman. 17,406; May 30.
Hamilton—The Graduates Choice. For Watches. Hamilton Watch Company. 17,401; May 30.
Herd's System. For Blankets. J. E. Herd. 17,405; May 30.
Herd's System. For Rugs. J. E. Herd. 17,404; May 30.
Infection Gives No Warning. For Surgical Dressings. Parke, Davis & Company. 17,409; May 30.
Sovereign Dual Mileage Now in Sealed Cans. For Motor Oil. Sovereign Oil Company. 17,412; May 30.
Stop for Tasty-Pie. For Pie. Tasty Baking Company. 17,413; May 30.
Tell Us Why the Parker is America's Most Popular Gift-Pen. For Fountain Pens, Mechanical Pencils and Ink. Parker Pen Company. 17,410; May 30.
Wear Cushonet Shoes and Walk Miles With a Smile. For Shoes. C. Morall. 17,408; May 30.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bucyrus-Erie Company. (See Schauer, Lawrence B., assignor.)
Carroll, George S., Bennington, N. H. Paper manufacturing. Re. 21,098; May 30.
Chicago Bridge & Iron Company. (See Hines, Clarence W., assignor.)
Cottrell, F. G., et al., trustees. (See Greger, Herbert H., assignor.)
Gaspar, Béla, Brussells, Belgium. Production of a colored sound film. Re. 21,099; May 30.
Gaudy, R. J., et al., trustees. (See Greger, Herbert H., assignor.)
Greger, Herbert H., Washington, D. C., assignor to a board of trustees composed of C. F. Hirshfeld, Detroit, Mich., F. G. Cottrell, Washington, D. C., and R. J. Gaudy, Chicago, Ill. Production of electricity by means of a fuel cell. Re. 21,100; May 30.
Hines, Clarence W., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Welding apparatus. Re. 21,101; May 30.
Hirshfeld, C. F., et al., trustees. (See Greger, Herbert H., assignor.)
International Business Machines Corporation. (See Lemmon, Walter S., assignor.)
Jakosky, John J., Los Angeles, Calif. Method and apparatus for continuous exploration of bore holes. Re. 21,102; May 30.
Lemmon, Walter S., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Communication system. Re. 21,103; May 30.
Radio Corporation of America. (See Round, Henry J., assignor.)
Reagan, Maurice E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Carrier relaying system with latched receiver. Re. 21,104; May 30.
Round, Henry J., Westfield, Muswell Hill, London, England, assignor to Radio Corporation of America. Picture telegraphy. Re. 21,105; May 30.
Schauer, Lawrence B., Huntington Park, Calif., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Variable tread vehicle. Re. 21,106; May 30.
Seitz, Georg H., assignor to Seitz-Werke, G. m. b. H., Bad Kreuznach, Rhineland, Germany. Sheet filter. Re. 21,107; May 30.
Seitz-Werke, G. m. b. H. (See Seitz, Georg H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)
Zipay, John R., Pittsburgh, Pa. Variable pitch propeller mechanism. Re. 21,108; May 30.

LIST OF DESIGN PATENTEES

Adams, Wilbur H., Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Refrigerator. 114,984; May 30.
American Coach and Body Company, The. (See Eckman, Meril L., assignor.)
American-National Company, The. (See Smith, Walter V., assignor.)
Arkley, William H., St. Johnsbury, Vt. Construction toy. 115,016; May 30.
Babbitt, Edwin V., Marion, Mass. Cake of soap. 115,017; May 30.
Bahr, Gustave F., Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Electric motor. 115,018; May 30.
Baker, Eugene L., Taunton, Mass. Cooking range. 115,019; May 30.
Barthman, William C., New York, N. Y. Combined watch case and locket. 115,060; May 30.
Bartmann & Bixer Inc. (See Bixer, Edmond P., assignor.)
Bay, Howard, assignor to The Petroleum Industry Exhibition Inc., New York, N. Y. Doll or similar article. 115,020; May 30.
Beck, August, assignor to Waite Carpet Company, Oshkosh, Wis. Rug. 115,087; May 30.
Beck, August, assignor to Waite Carpet Company, Oshkosh, Wis. Rug. 115,088; May 30.
Benjamin Electric Mfg. Company. (See Waltman, Chauncey E., assignor.)
Bixer, Edmond P., assignor to Bartmann & Bixer Inc., New York, N. Y. Textile fabric or similar article. 115,075; May 30.
Blanc, Marinette, New York, N. Y. Hat or similar article. 114,985; May 30.
Blatt, Saul, New York, N. Y. Handbag. 115,073; May 30.
Boepple, Hans, Valley Cottage, N. Y. Sweater or similar article. 115,061; May 30.
Boetticher, Herman W., assignor to G. James, Detroit, Mich. Portable printing machine. 115,074; May 30.
Bourne, Alberta M., Douglas County, Nevada. Label. 115,021; May 30.
Bradley Washfountain Company. (See Mullett, Howard A., assignor.)
Breglia, Arthur F., New York, N. Y. Couch. 115,022; May 30.
Brehm, Frederick W., Seattle, Wash. Book cover. 115,062; May 30.
Brody, Benjamin R., New York, N. Y. Lady's handbag or similar article. 115,023; May 30.
Bushberg, Wally, Oakland, Calif. Display rack. 114,986; May 30.
Byrnes, Phyllis, New York, N. Y. Dress. 115,076; May 30.
Caine, Robert, New York, N. Y. Dress. 115,024; May 30.
Caine, Robert, New York, N. Y. Dress. 115,025; May 30.
Calumet Manufacturing Corporation. (See Rideout, John G., assignor.)
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Chicago Electric Manufacturing Company. (See Renga, Fernando L., assignor.)
Cippico Giuseppe, Rome, Italy, assignor to Zeus Corporation, New York, N. Y. Smoking pipe. 115,026; May 30.
Clerc, Leonard F., Chicago, Ill. Refrigerating display cabinet. 114,987; May 30.
Clerc, Leonard F., Chicago, Ill. Refrigerating display cabinet. 114,988; May 30.
Clerc, Leonard F., Chicago, Ill. Refrigerating display cabinet. 114,989; May 30.
Cohen, Moe J., and A. Wirklich, New York, N. Y. Handbag. 115,063; May 30.
Davis, Herschel S., Little Rock, Ark. Sandal or similar article. 115,027; May 30.
Davis, Herschel S., Little Rock, Ark. Sandal or similar article. 115,028; May 30.
De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Shoe form or similar article. 114,990; May 30.
Dialite Company, The. (See Swalley, W. C., and Lichtinger, assignors.)
Duit, Albert H., Los Angeles, Calif. Swing. 114,991; May 30.
Duro Metal Products Company. (See Hedgpeth, Theron L., assignor.)
Eckman, Meril L., assignor to The American Coach and Body Company, Cleveland, Ohio. Welding gun. 115,029; May 30.
Edwards, Norman, assignor to P. E. Plato, New York, N. Y. Cigarette case or similar article. 115,030; May 30.
Ellis, Francis C., Chicago, Ill. Galvanometer. 115,031; May 30.
Epstein, Louis, New York, N. Y. Dress. 115,032; May 30.
Erskine, Gladys S., New York, N. Y. Brooch or similar article of jewelry. 115,033; May 30.
Fadie, Mathilde T., Oakland, Calif. Vanity cape or similar article. 115,064; May 30.
Fadie, Mathilde T., Oakland, Calif. Bib or similar article. 115,065; May 30.
Fadie, Mathilde T., Oakland, Calif. Bib or similar article. 115,066; May 30.
Farkas, Emil N., and F. F. Farkas, Chicago, Ill. Book. 115,067; May 30.
Farkas, Frank F. (See Farkas, Emil N. and F. F.)
Fitzgerald, Lucille B., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Overshoe or similar article. 114,992; May 30.
Fitzgerald, Lucille B., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Overshoe. 114,993; May 30.

Fracchia, Pauline, New York, N. Y. Dress. 115,034; May 30.
Fracchia, Pauline, New York, N. Y. Dress. 115,035; May 30.
Fracchia, Pauline, New York, N. Y. Dress. 115,089; May 30.
Fracchia, Pauline, New York, N. Y. Dress. 115,090; May 30.
Fracchia, Pauline, New York, N. Y. Dress. 115,091; May 30.
Fracchia, Pauline, New York, N. Y. Dress. 115,092; May 30.
Franco, Lewis C., New York, N. Y. Dinette trailer. 115,036; May 30.
Galowitz, Morris, New York, N. Y. Dress. 115,037; May 30.
Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Cake safe. 115,038; May 30.
Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Bread box. 115,039; May 30.
Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Canister or similar article. 115,040; May 30.
General Electric Company. (See Petzold, William B., assignor.)
Glenwood Range Company. (See Wiley, Clarence F., assignor.)
Gorham Manufacturing Company. (See Price, James R., assignor.)
Graham, George J., Merion, Pa. Tennis racket press. 114,995; May 30.
Griffith, Earl R., assignor of one-half to S. B. Small, Beaumont, Tex. Fishing float. 115,041; May 30.
Gross, Miriam, Chicago, Ill. Kitchen gauntlet. 114,996; May 30.
Hazel-Atlas Glass Company. (See Smith, Frasier, assignor.)
Hedgpeth, Theron L., Oak Park, assignor to Duro Metal Products Company, Chicago, Ill. Power-driven hand tool unit. 115,042; May 30.
Humphries, Earle E., Los Angeles, Calif. Packaged seed display stand. 114,997; May 30.
Illian, Douglas F., Evanston, Ill. Electric table lamp. 114,998; May 30.
James, George. (See Boetticher, Herman W., assignor.)
Jensen, Gustav, assignor to John G. Paton Company, New York, N. Y. Jar. 115,068; May 30.
Jubilee Manufacturing Company. (See Nielsen, Peter, assignor.)
Katz, Adolph, New York, N. Y. Brooch or similar article. 115,043; May 30.
Katz, Morris, Bronx, N. Y. Shopping bag. 114,999; May 30.
Kessler, Charles J., Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Range. 115,044; May 30.
Kruck, Ralph E. (See Wegman, E. S., and Kruck.)
Leonhardt, Edna F., Mount Airy, Philadelphia, Pa., assignor to Northampton Textile Company, Mount Holly, N. J. Textile fabric for upholstery. 115,093; May 30.
Lichtinger, Arthur J. (See Swalley, W. C., and Lichtinger.)
Lobl, Otto, Middleboro, Mass. Game apparatus. 115,045; May 30.
Marks, Murray J., New York, N. Y. Hat. 115,046; May 30.
Matthay, Frank W., assignor to The Parker Pen Company, Janesville, Wis. Display box. 115,047; May 30.
Maxenberger, Ludwig, East Cleveland, Ohio. Radiator ornament or similar article. 115,000; May 30.
McGlynn, Edward, New York, N. Y. Sungoggles. 114,994; May 30.
McKee Glass Company. (See Smith, Maurice A., assignor.)
Meisler, Henry, New York, N. Y. Dress. 115,094; May 30.
Meisler, Henry, New York, N. Y. Dress. 115,095; May 30.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Stove. 115,048; May 30.
Mullett, Howard A., assignor to Bradley Washfountain Company, Milwaukee, Wis. Wash basin. 115,001; May 30.
Newman, Louis, New York, N. Y. Coat. 115,077; May 30.
Newman, Louis, New York, N. Y. Coat. 115,078; May 30.
Nielsen, Peter, assignor to Jubilee Manufacturing Company, Omaha, Nebr. Audible signal unit or similar article. 115,002; May 30.
Northampton Textile Company. (See Leonhardt, Edna F., assignor.)
Owens-Illinois Can Company. (See Garten, William, assignor.)
Owings, Nathaniel A., Chicago, Ill., assignor to Stefco Steel Company, Michigan City, Ind. Building. 115,003; May 30.
Parker Pen Company, The. (See Matthay, Frank W., assignor.)
Paton, John G., Company. (See Jensen, Gustav, assignor.)
Perfection Stove Company. (See Adams, Wilbur H., assignor.)
Perfection Stove Company. (See Kessler, Charles J., assignor.)
Petroleum Industry Exhibition Inc., The. (See Bay, Howard, assignor.)
Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Trophy base. 115,004; May 30.
Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Trophy base. 115,005; May 30.
Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Trophy base. 115,006; May 30.
Plato, Paul E. (See Edwards, Norman, assignor.)
Poux, Noel J., Meadville, Pa. Pull tab for slide fasteners. 115,069; May 30.
Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or other article of flatware. 115,070; May 30.
Renga, Farnando L., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Vibrator. 115,049; May 30.
Richter, Maxwell, New York, N. Y. Dress. 115,050; May 30.
Rideout, John G., Cleveland, Ohio, assignor to Calumet Manufacturing Corporation, Hammond, Ind. Chair back. 115,051; May 30.
Rose, Lloyd, Long Beach, N. Y. Cigarette vending cabinet. 115,007; May 30.
Rosenberg, Ell, New York, N. Y. Handbag or similar article. 115,071; May 30.
Rubenberg, Dan, assignor to Rubenberg Silk Company, Inc., New York, N. Y. Embroidered textile fabric or similar article. 115,079; May 30.
Rubenberg, Dan, assignor to Rubenberg Silk Company, Inc., New York, N. Y. Embroidered textile fabric or similar article. 115,080; May 30.
Rubenberg, Dan, assignor to Rubenberg Silk Company, Inc., New York, N. Y. Embroidered textile fabric or similar article. 115,081; May 30.
Rubenberg Silk Company. (See Rubenberg, Dan, assignor.)
Rubin, Jack, New York, N. Y. Textile fabric. 115,082; May 30.
Rubin, Jack, New York, N. Y. Textile fabric. 115,083; May 30.
Rubin, Jack, New York, N. Y. Textile fabric. 115,084; May 30.
Salomon, Irving, Chicago, Ill. Chair. 115,052; May 30.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Shapiro, Murray J., New York, N. Y. Wedding gown. 115,008; May 30.
Shaw, Dugald A., Canton, Ohio, assignor to The United States Air Compressor Company. Lubricator casing. 115,053; May 30.
Shillaber, William R., New York, N. Y. Combined watch and compass. 115,072; May 30.
Shoe Form Co. (See De Witt, William J., assignor.)
Silverman, Jacob A., New York, N. Y. Coat. 115,085; May 30.
Small, Seldon B. (See Griffith, Earl R., assignor.)
Smith, Frasier, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Jar. 115,054; May 30.
Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass dish. 115,009; May 30.
Smith, Walter V., assignor to The American-National Company, Toledo, Ohio. Bicycle. 115,010; May 30.
Smith, Walter V., assignor to The American-National Company, Toledo, Ohio. Bicycle. 115,011; May 30.
Soldinger, Harry, Edgemere, Long Island, N. Y. Fur cape. 115,055; May 30.
Spanel, Abraham N., Dover, Del. Apron. 115,086; May 30.
Stefco Steel Company. (See Owings, Nathaniel A., assignor.)
Stoll, Charles, New York, N. Y. Sofa or similar article. 115,056; May 30.
Swalley, William C., and A. J. Lichtinger, assignors to The Dialite Company, Cleveland, Ohio. Combined lamp and stand for a dial telephone. 115,057; May 30.
Tilz, Charles, Pleasantville, N. J. Hot water bottle. 115,012; May 30.
Tomshinsky, Victor, New York, N. Y. Dress. 115,096; May 30.
Twomey, Madeline C., New York, N. Y. Combination ash tray and saucer. 115,058; May 30.
United States Air Compressor Company, The. (See Shaw, Dugald A., assignor.)
United States Rubber Company. (See Fitzgerald, Lucille B., assignor.)
Vallon, Samuel, San Francisco, Calif. Knife rack. 115,013; May 30.
Waite Carpet Company. (See Beck, August, assignor.)
Waltman, Chauncey E., Chicago, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Lighting fixture. 115,014; May 30.
Wegman, Evert S., East Longmeadow, and R. E. Kruck, Springfield, Mass. Beverage cooler cabinet. 115,015; May 30.
Wiley, Clarence F., Norton, assignor to Glenwood Range Company, Taunton, Mass. Range. 115,059; May 30.
Wirklich, Abraham. (See Cohen, M. J., and Wirklich.)
Zeus Corporation. (See Cippico, Giuseppe, assignor.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ackerman, Frederick W. (See Roscoe, E. S., and Ackerman.)
Agfa Ansco Corporation. (See Roehrl, Bruno C., assignor.)
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,160,189; May 30.
Ainsworth Dyeing Machine Company. (See Baldwin, William A., assignor.)
Ainsworth, George O., Detroit, Mich., assignor to Bendix Products Corporation, South Bend, Ind. Clutch control mechanism. 2,160,051; May 30.
Air Konditioning Company, The. (See Nagel, William F., assignor.)
Aldridge, Blair G., and E. G. Ragatz, assignors to Union Oil Company of California, Los Angeles, Calif. Distillation. 2,160,256; May 30.
Alexander, Donald D. (See Carus, V. F., and Alexander.)
Alexander, Grover C., Chicago, Ill. Automobile door handle. 2,160,611; May 30.
Allied Products Corporation. (See Richard, Clement C., assignor.)
Allison, Leslie R., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train control system. 2,160,669; May 30.
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Hydraulic transmission. 2,160,612; May 30.
American Alisafe Company. (See Sterne, Willard F., assignor.)
American Engineering Company. (See Alpern, Maxwell, assignor.)
American Flange & Manufacturing Co. (See Melrath, Earle G., assignor.)
American Forging & Socket Company. (See McGregor, Thomas A., assignor.)
American Forging & Socket Company. (See Obrecht, Norbert L., assignor.)
American Optical Company. (See Harper, Worthy C., assignor.)
American Optical Company. (See Splaine, E. M., and Jarrett, assignors.)
American Plush & Velvet Pressboard Co. Inc. (See Sebo, Julius K., assignor.)
American Radiator & Standard Sanitary Corporation. (See Goerg, Bernard, assignor.)
American Rolling Mill Company, The. (See Asbury, R. E., and Reed, assignors.)
American Rolling Mill Company, The. (See Wiley, A. D., and Franzmann, assignors.)
American Smelting and Refining Company. (See Lind, John H., assignor.)
American Steel Foundries. (See Hedgcock, William C., assignor.)
American Steel Foundries. (See Kinne, E. P., and Kayler, assignors.)
American Steel and Wire Company of New Jersey, The. (See Slusar, Frank M., assignor.)
American Telephone and Telegraph Company. (See Hanley, Frank H., assignor.)
American Type Founders, Inc. (See Meyer, Louis, assignor.)
American Type Founders Incorporated. (See Seybold, Frederick W., assignor.)
American Viscose Corporation. (See Kennedy, Edgar S., assignor.)
Amtsberg, Lester A. (See Olson, J. E., and Amtsberg.)
Anderson, Bert J., Hammond, Ind. Velocipede fork. 2,160,247; May 30.
Anderson, Harry T., Herkimer, assignor to Remington Rand Inc., Buffalo, N. Y. Bowden wire. 2,160,113; May 30.
Anderson, Ralph L. (See Oehler, A. W., and Anderson.)
Andrews, Willard E., Sycamore, Ill. Game device. 2,160,349; May 30.
Anstice, Josiah, & Company. (See Anstice, Mortimer R., assignor.)
Anstice, Mortimer R., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y. Bean-slicing machine. 2,160,693; May 30.
Appel, Walter D., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Hydraulic valve tappet. 2,160,257; May 30.
Archer, George E., South Whitley, Ind. Emergency highway signal. 2,160,426; May 30.
Armentrout, Arthur L. (See Hall, E. B., and Armentrout.)
Armstrong, Harry H., and A. B. Menefee, Beverly Hills, Calif., assignors to Tungsten Electrodeposit Corporation, Washington, D. C. Electrodeposition of Tungsten alloys. 2,160,321; May 30.
Armstrong, Harry H., and A. B. Menefee, Beverly Hills, Calif., assignors to Tungsten Electrodeposit Corporation, Washington, D. C. Electrodeposition of Tungsten alloys. 2,160,322; May 30.
Armstrong, Lyle C., Detroit, Mich. Automobile aerial. 2,160,192; May 30.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works and Manufacturing Company. Road Building machine. 2,160,193; May 30.
Arndt, Franklin E., Galion, Ohio, assignor to Galion Iron Works and Manufacturing Company. Road planer. 2,160,376; May 30.
Arndt, Franz, Berlin-Charlottenburg, A. Rausch, Berlin-Zehlendorf, and W. Staffel, Berlin-Tegel, Germany, assignors to General Electric Company. Electric controller. 2,160,635; May 30.
Arnold, Ross H. (See Jauch, R. J., Polhamus, and Arnold.)
Arrow-Hart & Hegeman Electric Company, The. (See Bentley, Robert H., assignor.)
Asbury, Ralph E., Middletown, and E. Reed, Zanesville, assignors to The American Rolling Mill Company, Middletown, Ohio. Process and apparatus for coiling strip material. 2,160,396; May 30.
Associated Attleboro Manufacturers. (See Stenberg, Knut E. B., assignor.)
Athey, Isaac H., Chicago, Ill. Game apparatus. 2,160,451 May 30.
Atwell, Harold V., White Plains, N. Y., assignor to Gasoline Products Company, Inc., Newark, N. J. Treating hydrocarbons. 2,160,774; May 30.
Auerbach, Hyman, Brookline, assignor to Continental Shoe Corporation, Boston, Mass. Footwear. 2,160,692; May 30.
Autogas Corporation. (See Furlong, Francis A., assignor.)
Automatic Control Corporation. (See Persons, Lawrence M., assignor.)
Ayers, Fred L., Watertown, Mass. Making shoes. 2,160,531; May 30.
Baash-Ross Tool Company. (See Walker, David C., assignor.)
Badger Glove & Mitten Co. (See Schreck, Edwin J., assignor.)
Bagpak, Inc. (See Cundall, Robert N., assignor.)
Bailey, Charles W., assignor to Stewart Bros., Inc. of Lynn, Lynn, Mass. Counter rolling machine. 2,160,775; May 30.
Bain, William H., Lewiston, Maine. Manufacture of sandals. 2,160,377; May 30.
Baker, Paul E. (See Eksergian, C. L., and Baker.)
Baker Perkins Company. (See Carus, V. F., and Alexander, assignors.)
Baker Perkins Company. (See Engels, Eugene O., assignor.)
Bakonyi, Stefan, Dessau, Germany, assignor to O. Kraus, Prague, Czechoslovakia. Production of thermosetting molding compositions and molded articles from natural horn. 2,159,981; May 30.
Balduf, Bruno E., assignor to United States Gypsum Company, Chicago, Ill. Wall structure. 2,160,711; May 30.
Baldwin, William A., assignor to Ainsworth Dyeing Machine Company, Utica, N. Y. Dyeing machine. 2,160,300; May 30.
Ball, Albert P., assignor to Briggs Manufacturing Company, Detroit, Mich. Trim panel assembly. 2,160,636; May 30.
Ball, Albert P., assignor to Briggs Manufacturing Company, Detroit, Mich. Trim panel assembly. 2,160,637; May 30.
Ballentine, Earle W., assignor, by mesne assignments to F. E. Hummel, permanent trustee of Russell Electric Company, Chicago, Ill. Air control for furnaces. 2,160,408; May 30.
Ballentine, George K., New York, N. Y. Garment bag. 2,169,959; May 30.
Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Work rest. 2,160,378; May 30.
Bancroft, Albert F., West Newton, Mass. Soft flexing apparatus. 2,160,114; May 30.
Banker, Oscar H., assignor to New Porducts Corporation, Chicago, Ill. Overdrive gearing. 2,159,980; May 30.
Banks, George B., London, England, assignor to Radio Corporation of America. Electrical oscillation generator. 2,160,052; May 30.
Barber-Colman Company. (See Marcellus, Brooks, assignor.)
Barbour, Kenneth H., Ealing, London, assignor to Electric & Musical Industries, Limited, Hayes, Middlesex, England. Wireless aerial system. 2,160,053; May 30.
Barefoot, Josie C., Charlotte, N. C. Safety device for automatic stopping of various electrically driven machines. 2,159,960; May 30.

Barnett, Tracy B., Carthage, Miss. Propeller. 2,160,323; May 30.

Barnhart, Joh R., Lakewood, Ohio. Metering circuit. 2,160,712; May 30.

Barrett, Harold J., Niagara Falls, N. Y., and D. E. Strain, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Esters. 2,160,532; May 30.

Bates, Harry C., assignor to Corning Glass Works, Corning, N. Y. Glass filter and making it. 2,160,571; May 30.

Bates, Mortimer F., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic engine throttle control. 2,160,194; May 30.

Bauer, Walter, and H. Lauth, Darmstadt, Germany, assignors to Röhm & Hass Company, Philadelphia, Pa. Polymerization process. 2,160,054; May 30.

Bauman, Lionel A. (See Wertzheiser, Joseph, assignor.)

Baumann, Paul, Ludwigshafen-on-the-Rhine, K. Krapp, Mannheim, H. Schilling, Ludwigshafen-on-the-Rhine, and R. Stadler, Ziegelhausen, assignors to I. G. Farbenindistrie Aktiengesellschaft, Franfort-on-the-Main, Germany. Apparatus for the operation of direct current electric ares. 2,160,452; May 30.

Baumé, Edwall J., Long Beach, Calif. Door lock and latch. 2,160,301; May 30.

Bechman, William O., Chicago, Ill., assignor to International Harvester Company. Drawbar. 2,160,350; May 30.

Bechtel-McCone-Parsons Corporation. (See Parsons, Ralph M., assignor.)

Beck, Orville L., Dahlgren, Va. Automobile door locking aparatus. 2,160,011; May 30.

Bedell, Eual H., Hinsdale, Ill., and L. J. Sivian, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound-absorbing unit. 2,160,638; May 30.

Behnke, George W., Durand, Mich. Turn-over device. 2,160,581; May 30.

Bell Telephone Laboratories, Incorporated. (See Bedell, E. H., and Sivian, assignors.)

Bell Telephone Laboratories, Incorporated. (See Coutlee, Kenneth G., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hearn, Richard B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Kannenberg, Walter F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Krom, Myron E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Laico, Joseph P., assignor.)

Bell Telephone Laboratories, Incorporated. (See Pfannenstiehl, Harry, assignor.)

Bell Telephone Laboratories, Incorporated. (See Roncl, V. L., and West, assignors.)

Bell Telephone Laboratories, Incorporated. (See Teal, Gordon K., assignor.)

Bell, William W., Tenafly, N. J., assignor to Celluloid Corporation. Match. 2,160,115; May 30.

Bemis, Kenneth E., Oakland, Calif. Toasting machine. 2,160,351; May 30.

Bendix Aviation Corporation. (See Carbonara, Victor E., assignor.)

Bendix Aviation Corporation. (See Lansing, Raymond P., assignor.)

Bendix Aviation Corporation. (See Price, Harold W. and E. R., assignors.)

Bendix Products Corporation. (See Ainsworth, George O., assignor.)

Bendix Products Corporation. (See Brace, Kemper P., assignor.)

Bendix Products Corporation. (See Irving, John S., assignor.)

Bendix Products Corporation. (See La Brie, Ludger E., assignor.)

Bendix Products Corporation. (See Schairer, George S., assignor.)

Bendix Products Corporation. (See Smalley, Lee L., assignor.)

Benedek, Elek K., Bucyrus, Ohio. Rotary pump or motor. 2,160,352; May 30.

Beno, Norman J., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Process and flux for solder bonding on coated metal surfaces. 2,160,195; May 30.

Bentall, Frank M., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Control for air flow to underfeed stokers. 2,160,409; May 30.

Bentley, Robert H., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Mounting interchangeable electric devices. 2,160,713; May 30.

Bergeron, Lionel. (See Kraemer, G., and Bergeron.)

Berges, Donald M., Montclair, assignor to Eclipse Aviation Corporation, East Orange, N. J. Internal combustion engine. 2,160,324; May 30.

Bergmans, Jan. (See de Jong, H., Bergmans, and Kortenray.)

Berkowitz, Robert. (See Wallace, A. L., and Berkowitz.)

Berliner, Henry A., Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md. Securing nailing strips to metal bodies. 2,160,258; May 30.

Berndt, Karl, Tilsit-on-the-Memel, Germany. Device for spinning artificial silk threads. 2,159,961; May 30.

Bethlehem Steel Company. (See Cooper, William W., assignor.)

Bethlehem Steel Company. (See Steffensen, Percy L., assignor.)

Biggs, Orrick H., Beverly, assignor to Hygrade Sylvania Corporation, Salem, Mass. Apparatus for interiorly coating lamps, tubes, and the like. 2,160,714; May 30.

Billings, Ralph E., Fort Wayne, Ind., assignor to General Electric Company. Water cooler. 2,160,639; May 30.

Billows, John W., assignor to A. Popick Manufacturing Company, Portland, Oreg. Compressed feed machine. 2,160,302; May 30.

Bird & Son, Inc. (See Graham, J. E., and Lines, assignors.)

Blaisdell, Sidney B., Wyncote, Pa., and R. J. A. Ingouf, Kingsport, Tenn., assignors to Fidelity Machine Company, Wilmington, Del. Machine for making braided wire netting. 2,160,715; May 30.

Blake Manufacturing Corporation. (See Wood, Orville T., assignor.)

Blattner, August H., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor device. 2,160,410; May 30.

Blattner, August H., Pine Lawn, and F. A. Kommer, assignors to Carter Carburetor Corporation, St. Louis, Mo. Carburetor structure. 2,160,411; May 30.

Blondel, André, Paris, France. Diaphragm for lenticulated films. 2,160,716; May 30.

Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Hone. 2,159,962; May 30.

Bloomer, Ward J. (See Kraft, W. W., and Bloomer.)

Bode, Harold E., Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Treatment of mercaptan containing material. 2,160,116; May 30.

Boles, Chalmers B., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,160,453; May 30.

Bonanno, Joseph L., Forest Hills, assignor to The Lionel Corporation, New York, N. Y. Toy aircraft. 2,159,963; May 30.

Bonath, Richard, Bussum, assignor to Werkspoor N. V., Amsterdam, Netherlands. Apparatus for continuously crystallizing solutions by evaporation or cooling. 2,160,533; May 30.

Booth, Olin R., Cainsville, Mo. Mouse and rat trap. 2,160,717; May 30.

Borg-Warner Corporation. (See Simpson, J. M., and White, assignors.)

Borresen, Nico, assignor to Nicostat Products Inc., Buffalo, N. Y. Fluid control valve. 2,160,117; May 30.

Bosch, Robert, Gesellschaft mit beschränkter Haftung. (See Schweizer, Alfred, assignor.)

Bosch, Robert, Gesellschaft mit beschränkter Haftung. (See Walther, W., and Hirsch, assignors.)

Bossart, Paul N., Cheswick, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,160,640; May 30.

Botsford, John W., Los Angeles, Calif. Connecting rod. 2,160,012; May 30.

Bowie, Frank W., and A. S. Lieb, Binghamton, N. Y., assignors to B. W. Freeman, Cincinnati, Ohio. Die. 2,160,427; May 30.

Brace, Kemper P., assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,160,055; May 30.

Braissant, Anna I., Oakland, Calif. Corset. 2,160,428; May 30.

Brammer, Frederick G., North Olmstead, Ohio. Defroster for aircraft. 2,160,397; May 30.

Brandt, Walter, Vienna, Austria, assignor to Western Electric Company, Incorporated, New York, N. Y. Relay. 2,160,056; May 30.

Brannon, Frank W., deceased, Luthersville, by J. C. Brannon, administrator, Moreland, Ga. Convertible hammer mill and silage cutter. 2,160,695; May 30.

Brannon, James C., administrator. (See Brannon, Frank W.)

Brenner, Carl. (See Green, W. T., and Brenner.)

Brent, George F., Pittsburgh, Pa. Window shade. 2,160,118; May 30.

Bressler, Robert E., assignor to Kol-Master Corporation, Oregon, Ill. Stoker structure. 2,160,641; May 30.

Bridgeport Metal Goods Manufacturing Company, The. (See Fullmer, Giles C., assignor.)

Briggs Manufacturing Company. (See Ball, Albert P., assignor.)

Briggs, Robert E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer. 2,160,534; May 30.

Briggs, Robert E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer. 2,160,535; May 30.

British Acoustic Films, Ltd. (See Kolb, Otto K., assignor.)

Brodersen, Karl, Dessau in Anhalt, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Pigment pastes. 2,160,119; May 30.

Broeren, Frank L., Neenah, and A. S. Krueger, Green Bay, assignors to Marathon Paper Mills Company, Rothschild, Wis. Dispenser for sheets. 2,160,412; May 30.

Brooke, Norman E., Washington, D. C. Garment hanger. 2,160,325; May 30.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Detector bar. 2,160,718; May 30.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Electric warp stop motion. 2,160,776; May 30.

Brown, Hugh S. (See Gormley, F. L., and Brown.)

Brown Instrument Company, The. (See Krogh, Anker E., assignor.)

Brugma, Antoine J., The Hague, Netherlands. Control device. 2,160,582; May 30.

Brün, Willi, and J. E. Burns, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Ammunition. 2,160,469; May 30.

Bruson, Herman A., and J. W. Eastes, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Sulphonamide resin. 2,160,196; May 30.

Brussell, Jacob, New York, N. Y., assignor to I. Friedman, Roselle, N. J. Feed dog for sewing machines. 2,160,120; May 30.

Buchanan, Stephen N., assignor to The Thomas & Betts Co., Elizabeth, N. J. Wire connector. 2,160,694; May 30.

Buckner, William A., Fresno, Calif. Variable speed rotary sprinkler. 2,160,121; May 30.

Bucky, Philip B., Bronxville, N. Y. Supporting device. 2,160,454; May 30.

Buda Company, The. (See Gormley, F. L., and Brown, assignors.)

Budd Wheel Company. (See Eksergian, C. L., and Baker, assignors.)

Bukolt, Roman B., Stevens Point, Wis. Preserving container closure, vent, and seal. 2,160,429; May 30.

Bukolt, Roman B., Stevens Point, Wis. Container closure. 2,160,430; May 30.

Bullock, Nettie M. H., Orlando, Fla. Lead alloy and preparing the same. 2,159,982; May 30.

Bumpas, Ollie V., and W. G. Smith, Memphis, Tenn. Roof. 2,160,642; May 30.

Bundy, James P., Chicago, Ill. Golf tee 2,160,122; May 30.

Bunting, Charles F., Dayton, Ohio. Stickproof radiator valve 2,160,536; May 30.

Burel, Charles, New York, N. Y. Folding box. 2,160,643; May 30.

Burkhardt, Arthur, Berlin-Lichterfelde, and R. Knabe, Berlin-Zehlendorf, assignors to Georg Von Giesche's Erben, Breslau, Germany. Magnesium alloy. 2,159,964; May 30.

Burns, James E (See Brün, W., and Burns.)

Burnstein, Isaac, Buffalo, N. Y. Clothes pressing machine. 2,160,013; May 30.

Buser, Johann, Basel, Switzerland. Electric lamp connecting device. 2,160,431; May 30.

Bush, A. G. (See Criner, Harry J., assignor.)

Butcher, Kearney, Essendon, Victoria, Australia. Method and apparatus for forming pipes. 2,160,720; May 30.

Butenandt, Adolf, Danzig-Langfuhr, Free City of Danzig, assignor to Schering Aktiengesellschaft. Pregnanolones and producing the same from pregnandiols. 2,160,719; May 30.

Buzan, George P. (See Davidson, Voris, assignor.)

Cage, John M., Schenectady, N. Y., assignor to General Electric Company. Pool-type discharge device. 2,160,583; May 30.

Callender's Cable and Construction Company Limited. (See Hunter, P. V., and Hill, assignors.)

Camera Patents Corporation. (See Morsbach, K., and Raschke, assignors.)

Campbell, John G. (See Hartmann, J., and Campbell.)

Candor, Robert R., Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation. Refrigeration. 2,160,470; May 30.

Canetta, John, Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,160,209; May 30.

Canetta, John, Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Speed and load controlled brake. 2,160,212; May 30.

Cannetta, John, Wilkinsburg, and J. B. Grosswege, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable load brake. 2,160,210; May 30.

Cannetta, John, Wilkinsburg, and J. B. Grosswege, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable load brake. 2,160,211; May 30.

Cannon Mills Company, The. (See Messer, Edward, assignor.)

Cantwell, John J., Washington, D. C., assignor to Speedbrik Corporation. Building block or brick. 2,160,792; May 30.

Carbide and Carbon Chemicals Corporation. (See Doolittle, Arthur K., assignor.)

Carbide and Carbon Chemicals Corporation. (See Eversole, James F., assignor.)

Carbonara, Victor E., Rockville Centre, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Apparatus for controlling the amount of a gas in a closed region. 2,160,326; May 30.

Card, Arthur V., assignor to The C. S. Card Iron Works Company, Denver, Colo. Latch. 2,160,303; May 30.

Card, C. S., Iron Works Company, The. (See Card, Arthur V., assignor.)

Carlson, Frederick O., assignor to Master Rule Manufacturing Company, Inc., New York, N. Y. Extension rule. 2,160,304; May 30.

Carmody, William H., assignor to The Neville Company, Pittsburgh, Pa. Alcohol soluble resins. 2,160,537; May 30.

Carpenter, Charles E., Chicago, Ill. Doughnut machine. 2,160,123; May 30.

Carroll, James J., Detroit, Mich. Piston ring. 2,160,379; May 30.

Carter Carburetor Corporation. (See Blattner, August H., assignor.)

Carter Carburetor Corporation. (See Blattner, A. H., and Kommer, assignors.)

Carus, Vaughn F., and D. D. Alexander, assignors, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Conveyer aligning device. 2,160,057; May 30.

Cast, William B., Parkville, Mo. Knock-down load support. 2,160,124; May 30.

Catland, Alfred C., Alhambra, and J. H. Howard, Huntington Park; said Catland assignor to Globe Oil Tools Company, Los Nietos, Calif. Valve for core drills. 2,160,305; May 30.

Cavuoti, Frank, Richmond Hill, N. Y. Camera tripod brace. 2,160,538; May 30.

Celanese Corporation of America. (See Sitzler, R. R., and Holt, assignors.)

Celluloid Corporation. (See Bell, William W., assignor.)

Celluloid Corporation. (See Shuman, Royal L., assignor.)

Central National Bank of Cleveland. (See Ohmer, John F., assignor.)

Central-National Bank of Cleveland. (See Wheelbarger, A. S., and Orth, assignors.)

Cerisano, Francis, New York, N. Y. Hairdressing means. 2,160,471; May 30.

Cernak, Paul, Montvale, N. J., assignor to Dexter Folder Company, New York, N. Y. Sheet feeder. 2,160,491; May 30.

Chase-Shawmut Company, The. (See Taylor, Elmer H., assignor.)

Chemical Works formerly Sandoz. (See Wehrli, Walter, assignor.)

Chemische Forschungsgesellschaft, m. b. H. (See Herrmann, Willy O., assignor.)

Chester, Alden P., assignor to Globe American Corporation, Kokomo, Ind. Oven control. 2,160,125; May 30.

Chicago Pneumatic Tool Company. (See Olson, J. E., and Amtsberg, assignors.)

Cincinnati Ball Crank Company, The. (See Ross, George A., assignor.)

Cincinnati Grinders Incorporated. (See Dall, A. H., and Ernst, assignors.)

Cizek, Joe C., Prague, Nebr. Well casing extractor. 2,160,472; May 30.

Clark, Charles H., Bethel Township, Allegheny County, Pa., assignor, by mesne assignments, to H. F. Flowers, Findlay, Ohio. Car door control. 2,160,197; May 30.

Clark Equipment Company. (See Gettig, J. H., and Spatta, assignors.)

Clark Equipment Company. (See Spatta, George, assignor.)

Clark, Harold W., assignor to The McCaskey Register Company, Alliance, Ohio. Paper equipment for cash registers. 2,160,539; May 30.

Clarkson, Allck, Elmhurst, Ill. Steam generating system. 2,160,644; May 30.

Clauberg, Herman P., Hasbrouck Heights, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet folding mechanism. 2,160,198; May 30.

Claytor, Edward M. (See Fitzsimmons, J. T. Hartzell, and Claytor.)

Cleveland Cooperative Stove Company, The. (See Taylor, Thomas E., assignor.)

Cleveland, Emmett G., Raymond, Wash. Random length bundle trimmer. 2,160,307; May 30.

Cleveland Welding Company, The. (See Kranz, Harry W., assignor.)

Cleveland Welding Company, The. (See Singer, John M., assignor.)

Coffman, Samuel M., Kansas City, Mo. Brake holding and releasing means. 2,160,126; May 30.

Coil Piston Ring Company of America, et al. (See Hagen, Rudolf A., assignor.)

Colburn Engineering Corporation. (See Colburn, Herbert C., assignor.)

Colburn, Herbert C., South Pasadena, assignor to Colburn Engineering Corporation, Santa Monica, Calif. Internal combustion engine. 2,160,380; May 30.

Colby, Joseph M., Fort Benning, Ga. Steering mechanism for self-propelled vehicles. 2,159,983; May 30.

Colgate-Palmolive-Peet Company. (See Ross, John, assignor.)

Colman, Howard D., Rockford, Ill. Bellows piston. 2,160,248; May 30.

Compagnie des Forges et Acieries de la Marine et d'Homecourt. (See Granat, Elie, assignor.)

Coney, James D., assignor to Star-Service Hanger Company, Detroit, Mich. Garment hanger. 2,160,127; May 30.

Coney, James D., assignor to Star-Service Hanger Company, Detroit, Mich. Garment hanger. 2,160,128; May 30.

Coney, James D., assignor to Star-Service Hanger Company, Detroit, Mich. Garment hanger. 2,160,129; May 30.

Conners, Michael J., Larchmont, N. Y. Cable connector for outlet boxes. 2,160,353; May 30.

Consolidated Quarries Corporation. (See Severinhaus, Nelson, assignor.)
Continental Can Company. (See Beno, Norman J., assignor.)
Continental Gummi-Werke Aktiengesellschaft. (See Karthaus, Hans, assignor.)
Continental Shoe Corporation. (See Auerbach, Hyman, assignor.)
Cook, A. D., Inc. (See Swanson, Raymond, E., assignor.)
Cook, Mildred G., Big Rapids, Mich. Detachable fastener for garments and the like. 2,160,492; May 30.
Cooper, Allyn R., Marshalltown, Iowa. Power attachment for lawn mowers. 2,160,259; May 30.
Cooper, William W., Harrisburg, Pa., assignor to Bethlehem Steel Company. Foundry mold and the like. 2,160,645; May 30.
Corn Products Refining Company. (See Bode, Harold E., assignor.)
Cornelissen, Arnold J., Buffalo, N. Y. Vehicle wheel. 2,160,199; May 30.
Corning Glass Works. (See Bates, Harry C., assignor.)
Corning Glass Works. (See Harris, Huston, assignor.)
Corning Glass Works. (See McCauley, George V., assignor.)
Coultas, Wilbur J., assignor to Deere & Company, Moline, Ill. Husking device. 2,160,306; May 30.
Coulter, Paul L., Santa Monica, Calif. Lighting equipment. 2,160,721; May 30.
Coutlée, Kenneth G., Yonkers, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric condenser. 2,160,646; May 30.
Covert, Lloyd W., assignor to Röhm & Haas Company, Philadelphia, Pa. Preparing hexadecyl amines. 2,160,058; May 30.
Crafts, Curtis S., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Rotary printing press. 2,160,613; May 30.
Crawford, Charles P., Munhall, Pa. Sanitary toilet seat. 2,160,100; May 30.
Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Bread slicing machine. 2,160,493; May 30.
Crown Can Company. (See McManus, C. E., and Darling, assignors.)
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Valve stem. 2,160,398; May 30.
Cruikshank, Virginius M., Sunbury, Pa. Heat control system. 2,160,381; May 30.
Culberson, Howard E., Cleveland Heights, Ohio. Supporting structure for elevated railway tracks and elevating the tracks. 2,160,399; May 30.
Cumming, James M. (See Van Sickle, R. C., and Cumming.)
Cundall, Luta L., administratrix. (See Cundall, Robert N.)
Cundall, Robert N., deceased, by L. L. Cundall, administratrix, Lackawanna, assignor to Bagpak, Inc., New York, N. Y. Apparatus for filling bags. 2,160,060; May 30.
Cundall, Robert N., Lackawanna, N. Y., assignor to Bagpak, Inc. Apparatus for closing, sewing, and sealing bags. 2,160,059; May 30.
Cunningham, John A., assignor of one-half to M. Cunningham, Bethlehem, Pa. Foot exerciser. 2,160,722; May 30.
Cunningham, Lewis L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Remote control system. 2,160,400; May 30.
Cunningham, Mary. (See Cunningham, John A., assignor.)
Curren-Fabrihome Corporation, The. (See Curren, Harold S., assignor.)
Curren, Harold S., Pultneyville, N. Y., assignor to The Curren-Fabrihome Corporation, Francistown, N. H. Method and apparatus for forming concrete structures. 2,160,647; May 30.
Curtis Publishing Company, The. (See Grammer, Allen L., assignor.)
Cutler-Hammer, Inc. (See Hodgson, Howard E., assignor.)
Dack, Rudolph. (See Lebert, P., and Dack.)
Dall, Albert H., and H. Ernst, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Journal bearing. 2,160,777; May 30.
Dall, Albert H., and H. Ernst, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Bearing. 2,160,778; May 30.
Daily, Roy, assignor to Webster Electric Company, Racine, Wis. Pickup. 2,160,793; May 30.
Darling, Frank L. (See McManus, C. E., and Darling.)
Davidson, Voris, assignor of one-half to G. P. Buzan, Lyons, Ind. Dipper door control. 2,160,432; May 30.
Deere & Company. (See Coultas, Wilbur J., assignor.)
Deere & Company. (See Oehler, A. W., and Anderson, assignors.)
De Jong, Hendrik, J. Bergmans, and W. Kortenray, Eindhoven, Netherlands, assignors to General Electric Company. Mounting arrangement for a high intensity light source. 2,160,648; May 30.
De Lancey, Warren H. (See Logan, J. A., and De Lancey.)
De Laval Separator Company, The. (See Erling, Sven J., assignor.)
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
De Lisle, Harold L., Two Rivers, Wis. Drafting machine. 2,160,130; May 30.
Deltox Rug Company. (See Schmiedel, William F., assignor.)
Dennison Manufacturing Company. (See Flood, Carl A., assignor.)
De Rougé, Charles R. A. M., Mercues, France, assignor to Pollopas Patents Limited, London, England. Airplane. 2,160,455; May 30.
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Spiral tube winding machine. 2,160,759; May 30.
Detroit Lubricator Company. (See Milbank, Elmer F., assignor.)
De Turk, Lewis L. (See Heffner, H. F., and De Turk.)
Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler. (See Jaeger, G., and Wille, assignors.)
Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler. (See Reichert, Theophil, assignor.)
De Voe, Albert H., Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Looper mechanism for sewing machines. 2,160,355; May 30.
Devol, Lee, Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,160,649; May 30.
Dewey, Charles S. (See Meuser, L., and Dewey.)
Dexter Folder Company. (See Cernak, Paul, assignor.)
Diedrich, Paul. (See Dohrn, M., and Diedrich.)
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Doerfler, Hilary, Shawnee, Okla. Wave motion machine. 2,160,131; May 30.
Dohrn, Max, Berlin-Charlottenburg, and P. Diedrich, Finkenkrug, Germany, assignors to Schering Aktiengesellschaft. Polyido derivatives of acylamino acids and their salts and making the same. 2,160,413; May 30.
Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Vinyl resin coatings and process producing the same. 2,160,061; May 30.
Doran, Claude J., et al. (See Hagen, Rudolf A., assignor.)
Dow Chemical Company, The. (See Maasberg, Albert T., assignor.)
Drake, Harcourt C., Hempstead, assignor to Sperry Products, Inc., Brooklyn, N. Y. Flaw detection. 2,160,540; May 30.
Drake, John L., L. L. Handy, and I. G. Fowler, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Pressure system. 2,160,062; May 30.
Draper Corporation. (See Brown, Carl D., assignor.)
Drennan, Harry E., Whittenburg, Tex., assignor to Phillips Petroleum Company. Treating hydrocarbon oils. 2,160,249; May 30.
Dresser Manufacturing Company. (See Engelman, Robert C., assignor.)
Dressler, Philip D., assignor to Swindell Dressler Corporation, Pittsburgh, Pa. Tunnel kiln construction and method of operation. 2,159,965; May 30.
Dual Message Clock Co. (See Perry, Arthur S., assignor.)
Dubonnet, André, Neuilly-sur-Seine, France. Elastic system. 2,160,541; May 30.
Dudenhofen, John J., St. Clair, assignor of thirty-seven and one-half per cent to J. C. Henley, St. Louis, and twenty-five per cent to G. R. Ericson, Kirkwood, Mo. Making shoes. 2,160,650; May 30.
Dunbrook, Raymond F., and B. J. Humphrey, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Antioxidant for rubber composition. 2,160,200; May 30.
Duncan Electric Manufacturing Company. (See Emens, Albert L., assignor.)
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Dunham, Lewis W., Brooklyn, N. Y. Game. 2,159,966; May 30.
Dunn, Edward I., San Francisco, Calif. Animal sanitary appliance. 2,160,473; May 30.
Dunn, Harold V., Olean, N. Y. Machine for notching and bending pipes. 2,160,327; May 30.
Dunsmore, Robert C. (See Johnson, K. C., and Dunsmore.)
Du Pont, E. I., de Nemours & Company. (See Barrett, H. J., and Strain, assignors.)
Du Pont, E. I., de Nemours & Company. (See Engelmann, Max, assignor.)
Du Pont, E. I., de Nemours & Company. (See Gladding, Ernest K., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lawson, Walter E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Maxwell, Robert W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Maxwell, R. W., and Shipp, assignors.)
Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., Hinegardner, and Potter, assignors.)
Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., and Potter, assignors.)
Du Pont, E. I., de Nemours & Company. (See Shipp, Joseph H., assignor.)
Durham, Morris D., Chicago, Ill. Washer. 2,160,328; May 30.

Durst, Henry E., Philadelphia, Pa. Air conduit system for buildings. 2,160,132; May 30.
Dutchess Tool Company. (See Odell, Stanley F., assignor.)
Dwyer, William M., assignor to W. H. Miner, Inc., Chicago, Ill. Hatch cover fastener. 2,160,260; May 30.
Dyer, Newell V., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 2,160,063; May 30.
Eastes, John W. (See Bruson, H. A., and Eastes.)
Eastman Kodak Company. (See Fisher, Webster E., assignor.)
Eastman Kodak Company. (See Hasche, Rudolph L., assignor.)
Eckbo, Elvind J. (See Fougner, Nicolav K., assignor.)
Eclipse Aviation Corporation. (See Berges, Donald M., assignor.)
Edgerton, Albert K. (See Fore, H. A., and Edgerton.)
Edmonds, Asbury S., Brooklyn, N. Y. Ball transmission mechanism. 2,160,308; May 30.
Edwards, Charles R., Houston, Tex. Outside pipe cutter. 2,160,691; May 30.
Edwards, William C., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Steering column lock switch. 2,160,261; May 30.
Edwards, William F. M., assignor to Filter Tips Limited, London, England. Manufacture of filter tip cigarettes. 2,160,201; May 30.
Egan Cotton Mills. (See Hunt, Jesse A., assignor.)
Eichwald, Egon, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Stabilizing fatty oil polymers. 2,160,572; May 30.
Eigabroadt, Harry C. (See Kellogg, W. D., and Eigabroadt.)
Eksergian, Carolus L., and P. E. Baker, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Tire-valve chuck. 2,160,414; May 30.
Eldridge, Everett, assignor to Vulcan Corporation, Portsmouth, Ohio. Last block gauge for last lathes. 2,160,723; May 30.
Electric & Musical Industries Limited. (See Barbour, Kenneth K., assignor.)
Electric Selectors Limited. (See Horsefield, Walter R., assignor.)
Electric Storage Battery Company, The. (See West, George H. B., assignor.)
Elliott, Hugh F. (See Quinn, J. E., and Elliott.)
Elliotson, Walter W. (See Feigh, Glenn H., assignor.)
Ellis, Carleton, Montclair, N. J., assignor to Standard Oil Development Company. Plasticizer for cellulose derivatives. 2,160,133; May 30.
Ellwood Safety Appliance Company. (See Wasser, Harry N., assignor.)
Emens, Albert L., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Maximum-demand meter. 2,160,415; May 30.
Empire Metal Cap Co. (See Merolle, Augustus L., assignor.)
Emsco Derrick and Equipment Company. (See Le Bleu, Charles, assignor.)
Endicott Johnson Corporation. (See Martin, Charles E., assignor.)
Engelman, Robert C., assignor, by mesne assignments, to Dresser Manufacturing Company, Bradford, Pa. Valve mechanism for compressors. 2,160,401; May 30.
Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxides of amino acids. 2,159,967; May 30.
Engels, Eugene O., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Explosion door for furnaces. 2,160,262; May 30.
Engineering and Research Corporation. (See Berliner, Henry A., assignor.)
Ericson, George R., et al. (See Dudenhofen, John J., assignor.)
Erling, Sven J., Nockeby, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Pulsator for milking machines. 2,160,651; May 30.
Ernst, Hans. (See Dall, A. H., and Ernst.)
Etablissements Lambiotte Freres. (See Mascré, Jacques E. J. G., assignor.)
Evans, Morton E. and W. A., Philadelphia, Pa., assignors, by mesne assignments, to National Carbon Company, Inc. Easel. 2,160,456; May 30.
Evans, Wayne S. (See Evans, Morton E. and W. S.)
Evans, Wayne S. (See Housman, A. J., and Evans.)
Evans, William H., University City, Mo. Coupling for fabric hose. 2,160,354; May 30.
Eversole, James F., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Manufacture of formic acid. 2,160,064; May 30.
Ewart, John M. (See Taylor, G. N., and Ewart.)
Ex-Cell-O Corporation. (See Hoffer, James F., assignor.)
Fabbro, Umberto, Melbourne, Victoria, Australia. Machine for shaping butter and like materials. 2,160,696; May 30.
Fafnir Bearing Company, The. (See Leister, Fayette, assignor.)
Fanning, Wilbur A., Forest Park, assignor to Kinkead Industries Incorporated, Chicago, Ill. Extensible carpet stretcher. 2,160,134; May 30.
Fedje, Ida J., Berwick, N. Dak. Potato ricer and press for fruits and vegetables. 2,160,329; May 30.
Feigh, Glenn H., assignor to W. W. Elliotson, Chicago, Ill. Piston ring remover. 2,160,652; May 30.
Fenstermacher, Clayton A., assignor to Schuylkill Hosiery Mills, Inc., Reading, Pa. Added thread-feeding attachment for circular knitting machines. 2,160,614; May 30.
Ferguson, William, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated. Burning fluid fuel. 2,160,615; May 30.
Fernseh Aktiengesellschaft. (See Möller, R., and Ruska, assignors.)
Fernseh Aktiengesellschaft. (See Schunack, Johannes, assignor.)
Fidelity Machine Company. (See Blaisdell, S. B., and Ingouf, assignors.)
Fleux, Jean, assignor of one-half to Schneider & Cie, Paris, France. Range-finding and fire-correction sighting device. 2,160,202; May 30.
Filter Tips Limited. (See Edwards, William F. M., assignor.)
Firestone Tire & Rubber Company, The. (See Dunbrook, R. F., and Humphrey, assignors.)
Fischer, Edwin L., Burbank, Calif., assignor, by mesne assignments, to Radio Corporation of America. Sound film apparatus. 2,160,014; May 30.
Fisher, Webster E., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Recovery of acids from sludge. 2,159,984; May 30.
Fitch, Ellery R., Irwin, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,160,191; May 30.
Fitzsimmons, John T., H. A. Hartzell, and E. M. Claytor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Ignition control apparatus. 2,159,968; May 30.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Pipe joint and making same. 2,160,263; May 30.
Fletcher, Joseph A., Ridgewood, N. J., assignor of one-half to R. Newbold, New Rochelle, N. Y. Display device. 2,160,724; May 30.
Flint, Francis C., Zanesville, Ohio, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Apparatus for decorating glassware and other articles. 2,160,725; May 30.
Flood, Carl A., assignor to Dennison Manufacturing Company, Framingham, Mass. Tag. 2,160,726; May 30.
Floss, Carl W., Detroit, Mich. Honing mechanism. 2,160,494; May 30.
Flowers, Henry F. (See Clark, Charles H., assignor.)
Food Machinery Corporation. (See Holmes, Herbert G., assignor.)
Food Machinery Corporation. (See Phillips, Charles S., assignor.)
Food Machinery Corporation. (See Thompson, Albert R., assignor.)
Ford, George R., Jr., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for tempering glass. 2,160,065; May 30.
Fore, Harry A., and A. K. Edgerton, Los Angeles, Calif. Geophysical instrument. 2,160,356; May 30.
Foster, Lee R. (See Haglund, H. H., and Foster.)
Fougner, Nicolay K., Lilleaker, near Oslo, assignor of one-half to E. J. Eckbo, Oslo, Norway. Safety razor with ribbon shaped blade. 2,160,727; May 30.
Fowler, Ival G. (See Drake, J. L., Handy, and Fowler.)
Francis, Raymond S., Rumford, R. I., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Mechanism for supplying a thread under uniform tension. 2,160,495; May 30.
Franzmann, William H. (See Wiley, A. D., and Franzmann.)
Freeman, Benjamin W. (See Bowie, F. W., and Lieb, assignors.)
Freistadt, Willy. (See Weichardt, R., Freistadt, and Hicke.)
Friedman, Isadore. (See Brussell, Jacob, assignor.)
Frische, Carl A., Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Soundproofing construction. 2,160,066; May 30.
Fritz, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Direction finding system. 2,160,135; May 30.
Frolich, Per K., Westfield, N. J., assignor to Standard-I. G. Company. Improving solvents. 2,160,136; May 30.
Froussard, Albert F., St. Louis, Mo. Safety mechanism. 2,160,137; May 30.
Fullmer, Giles C., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Flashlight switch. 2,160,496; May 30.
Furlong, Francis A., River Forest, assignor to Autogas Corporation, Chicago, Ill. Heater. 2,160,264; May 30.
Fürst, Stefan, Gladbach-Rheydt, assignor to W. Schlafhorst & Co., Munchen-Gladbach, Germany. Appliance for testing the tension of textile threads or yarn. 2,159,969; May 30.
G. & L. Machine & Tool Works. (See Lebert, P., and Deck, assignors.)
Galambos, Louis A., Jr., Kansas City, Mo., assignor to Sullivan Machinery Company. Bit heating apparatus. 2,160,265; May 30.
Gallon Iron Works and Manufacturing Company, The. (See Arndt, Franklin E., assignor.)
Gall, Robert L. B. (See Webb, Kevin W. C., assignor.)

Gamble, Wilfred M., assignor to Morris Paper Mills, Chicago, Ill. Display carton. 2,160,203; May 30.
Garrett, Charles J., Newport, Vt. Folding fish landing net. 2,160,584; May 30.
Garrett, George K., deceased, by K. G. Hickman, administratrix, Bryn Mawr, Pa. Machinery for making circular and coiled articles. 2,160,497; May 30.
Gasoline Products Company. (See Atwell, Harold V., assignor.)
Gaylor, Peter J., Staten Island, N. Y., assignor to Standard Oil Development Company. Higher alkyl hydroxyamines. 2,160,138; May 30.
Gel-Sten, Incorporated. (See Newgard, Ingwald M., assignor.)
General Aniline Works, Inc. (See Brodersen, Karl, assignor.)
General Electric Company. (See Arndt, F., Rausch, and Staffel, assignors.)
General Electric Company. (See Billings, Ralph E., assignor.)
General Electric Company. (See Cage, John M., assignor.)
General Electric Company. (See de Jong, H., Bergmans, and Kortenray, assignors.)
General Electric Company. (See Gieseler, Martin, assignor.)
General Electric Company. (See Granfield, John C., assignor.)
General Electric Company. (See Hobart, Henry M., assignor.)
General Electric Company. (See Jensen, Richard C., assignor.)
General Electric Company. (See King, William J., assignor.)
General Electric Company. (See Kling, August J., assignor.)
General Electric Company. (See Krebs, Ernst W., assignor.)
General Electric Company. (See Larrecq, Anthony J., assignor.)
General Electric Company. (See McConnell, Andrew J., assignor.)
General Electric Company. (See McMahan, Kenton D., assignor.)
General Electric Company. (See Oswald, Marcel, assignor.)
General Electric Company. (See Peterson, Conrad S., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Safford, Moyer M., assignor.)
General Electric Company. (See Stubbs, Albert, assignor.)
General Electric Company. (See Suits, Chauncey G., assignor.)
General Electric Company. (See Teare, W. H., and Livingston, assignors.)
General Electric Company. (See Winter, Fred H., assignor.)
General Electric Company. (See Zurcher, Ernest, assignor.)
General Motors Corporation. (See Appel, Walter D., assignor.)
General Motors Corporation. (See Boles, Chalmers B., assignor.)
General Motors Corporation. (See Candor, Robert R., assignor.)
General Motors Corporation. (See Edwards, William C., assignor.)
General Motors Corporation. (See Fitzsimmons, J. T., Hartzell, and Claytor, assignors.)
General Motors Corporation. (See Hazen, R. M., and McCrae, assignors.)
General Motors Corporation. (See Henney, Charles F., assignor.)
General Motors Corporation. (See Huber, Paul, assignor.)
General Motors Corporation. (See Hutchins, William H., assignor.)
General Motors Corporation. (See Joroleмon, Earl W., assignor.)
General Motors Corporation. (See O'Connell, J. J., and Malone, assignors.)
General Motors Corporation. (See Simpson, Emory G., assignor.)
General Talking Pictures Corporation. (See Tappan, Chester, assignor.)
Gerson, Kurt A., London, England. Oxygen liberating compositions. 2,160,542; May 30.
Gessler, Harry C., Brooklyn, N. Y. Ice cream disher. 2,160,585; May 30.
Gettig, Joseph H., and G. Spatta, assignors to Clark Equipment Company, Buchanan, Mich. Tube welding. 2,160,586; May 30.
Gheysens, Eugène A. C. A. and P. C. L. A., Iseghem, Belgium. Haircloth. 2,160,616; May 30.
Gheysens, Paul C. L. A. (See Gheysens, Eugène A. C. A. and P. C. L. A.)
Gibbons, Willis A., Montclair, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Insulation of electrical conductors. 2,160,204; May 30.
Gieseler, Martin, Berlin, Germany, assignor to General Electric Company. Control system. 2,160,587; May 30.
Gilbert, A. C., Company, The. (See Morse, Shirley P., assignor.)
Gilbert & Barker Manufacturing Company. (See Logan, J. A., and De Lancey, assignors.)
Gistucci, Paul M. A., Paris, and J. Lichtenstein, Levallois-Perret, assignors to Societe Generale des Carburateurs Zenith, Levallois-Perret (Seine), France. Carburetor. 2,160,067; May 30.
Gladding, Ernest K., Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial thread dressing composition. 2,160,458; May 30.
Globe American Corporation. (See Chester, Alden P., assignor.)
Globe Oil Tools Company. (See Catland, A. C., assignor, and Howard.)
Goeb, Rudolph W., Oakland, Calif. Separator. 2,160,498; May 30.
Goeb, Rudolph W., Oakland, Calif. Fishing pole holder. 2,160,499; May 30.
Goerg, Bernard, Scarsdale, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Furnace. 2,160,800; May 30. 2,160,801; May 30.
Goerg, Bernard, Scarsdale, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Heating apparatus. 2,160,801; May 30.
Goerg, Bernard, Scarsdale, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Heating apparatus. 2,160,802; May 30.
Goerg, Bernard, Scarsdale, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Heating apparatus. 2,160,803; May 30.
Goodwin, H. Newell, et al. (See Timberlake, Journey F., assignor.)
Gormley, Frank L., Chicago, and H. S. Brown, assignors to The Buda Company, Harvey, Ill. Cable reel jack. 2,160,543; May 30.
Goss Printing Press Company, The. (See Crafts, Curtis S., assignor.)
Graebner, Otto F., and F. J. Westrope, assignors to The Murray Corporation of America, Detroit, Mich. Window mounting. 2,160,068; May 30.
Graham, James E., Needham, and E. M. Lines, Dedham, assignors to Bird & Son, Inc., East Walpole, Mass. Sound-deadening wall and material. 2,160,729; May 30.
Grammer, Allen L., Meadowbrook, assignor to The Curtis Publishing Company, Philadelphia, Pa. Bookmaking apparatus. 2,160,728; May 30.
Granat, Elie, assigner of one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Concordance restoring system for distant control means. 2,160,779; May 30.
Granfield, John C., Pittsfield, Mass., assignor to General Electric Company. Electromagnetic induction apparatus and making the same. 2,160,588; May 30.
Granfield, John C., Pittsfield, Mass., assignor to General Electric Company. Apparatus for making strip wound magnetic cores. 2,160,589; May 30.
Gray, Philip P., Forest Hills, and I. Stone, assignors to Wallerstein Company, Inc., New York, N. Y. Beer and preparing same. 2,159,985; May 30.
Gray, Philip P., Forest Hills, and I. Stone, assignors to Wallerstein Company, Inc., New York, N. Y. Producing aqueous oil emulsions. 2,159,986; May 30.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Balancing plate for watt-hour meters. 2,160,416; May 30.
Green, Warren T., and C. Brenner, assignors to Mengel Body Company, Louisville, Ky. Knock-down chest. 2,160,653; May 30.
Greenfield Tap and Die Corporation. (See Kuhn, Karl A., assignor.)
Greensfelder, Bernard S., San Francisco, and M. E. Spaght, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Fractionating mineral oils. 2,160,573; May 30.
Griffin, Walter S., Jr., W. A. Harris, and D. H. Wallace, Jr., Greenville, S. C. Garbage can. 2,160,433; May 30.
Grisdale, George W., assignor to Republic Flow Meters Company, Chicago, Ill. Measuring instrument. 2,160,266; May 30.
Griswold, Anne W., executrix. (See Griswold, William B.)
Griswold, William B., deceased; A. W. Griswold, executrix, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Container for papers, cards, and the like. 2,160,267; May 30.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Crankshaft lathe. 2,160,402; May 30.
Grosswege, John B. (See Canetta, J., and Grosswege.)
Gruner, Albert P., Cleveland, Ohio. Folder construction for sheet music or the like. 2,160,205; May 30.
Guhman, John C., University City, assignor to Wright-Guhman Company, St. Louis, Mo. Shoe stiffener. 2,160,590; May 30.
Gulberson Corporation, The. (See Pranger, Albert, assignor.)
Haberstump, Alfred H., Detroit, Mich., assignor to The Murray Corporation of America. Vehicle seat. 2,160,015; May 30.

Haberstump, Alfred H., Detroit, Mich., assignor to The Murray Corporation of America. Vehicle seat. 2,160,016; May 30.
Hackett, William S., Wilkinsburg, Pa. Confection. 2,160,730; May 30.
Hadley Company, The. (See Ritter, Sauk assignor.)
Haeberlin, Arthur, Zurich-Albisrieden, Switzerland. Dental pencil. 2,160,731; May 30.
Hagen, Rudolf A., Grand Island, Nebr., assignor of one-half to C. J. Doran, and one-half to Coil Piston Ring Company of America, St. Louis, Mo. Piston ring. 2,160,654; May 30.
Hagmond, Hakon H., New York, N. Y., and L. R. Foster, River Edge, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Message ejecting mechanism for telegraph printers. 2,160,139; May 30.
Halberstadt, Ludwig, Halle, Germany. Recovering metals and paper. 2,160,500; May 30.
Hall, Elwin B., and A. L. Armentrout, Los Angeles, Calif., assignors to Security Engineering Co. Inc. Method and apparatus for repairing well liners, casings, etc. 2,160,804; May 30.
Hall, Eric E., Chicago, Ill. Golf club grip. 2,160,656; May 30.
Hamel, J. Samuel. (See Jones, B., and Hamel.)
Hammer, Otto, assignor to Security Engineering Co., Inc., Whittier, Calif. Setting devices at predetermined levels in well casings and tubings. 2,160,357; May 30.
Hammon, James H. (See Newman, John J., assignor.)
Hamren, Eric O., assignor to Pangborn Corporation, Hagerstown, Md. Abrading apparatus. 2,160,697; May 30.
Handy, Le Roy L. (See Drake, J. L., Handy, and Fowler.)
Hanley, Frank H., Butler, N. J., assignor to American Telephone and Telegraph Company. Telegraph system, open Morse telegraph key alarm circuit. 2,160,206; May 30.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Oscillation generation and control. 2,160,655; May 30.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator. 2,160,140; May 30.
Harper, Carolyn L., trustees, et al. (See Harper, P. S., and Turner, assignors.)
Harper, Philip S., and G. F. Turner, Chicago, assignors of one-fourth to said P. S. Harper and one-half to C. L. Harper, Chicago, Ill., and one-fourth to P. S. Harper and C. L. Harper, as trustees. Valve mechanism. 2,160,358; May 30.
Harper, Worthy C., Caldwell, Ohio, assignor to American Optical Company, Southbridge, Mass. Ophthalmic instrument. 2,160,359; May 30.
Harris, Huston, assignor to Corning Glass Works, Corning, N. Y. Television apparatus. 2,160,434; May 30.
Harris, William A. (See Griffin, W. S., Jr., Harris, and Wallace.)
Hartmann, Joseph, North Kansas City, and J. G. Campbell, Kansas City, assignors of fifty-one per cent to W. L. Suiter, Kansas City, Mo. Paper stuffing machine. 2,159,987; May 30.
Hartzell, Herman L. (See Fitzsimmons, J. T., Hartzell, and Claytor.)
Hasche, Rudolph L., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Gas and liquid contact apparatus. 2,159,988; May 30.
Haskin, Walter E., Flushing, assignor to Pressed & Welded Steel Products Company, Inc., New York, N. Y. Book rack. 2,160,141; May 30.
Hass, Carl, Karlshorst, near Berlin, R. Witt, Berlin-Friedenau, and W. Quade, Furstenwalde, Spree, assignors to Julius Pintsch Kommanditgesellschaft, Berlin, Germany. Door mounting and latching means. 2,160,330; May 30.
Hassan, Sidney N., New York, N. Y. Storage tank for combustible and inflammable materials. 2,160,360; May 30.
Hathorn, Clarence J., assignor to The Stackpole Carbon Company, St. Marys, Pa. Midget variable resistance device. 2,160,142; May 30.
Hawkins, Sara B., Birmingham, Ala. Convertible traveling case and baby bed. 2,160,069; May 30.
Haynes, George P., Rockville Centre, N. Y. Valve for control of mediums under pressure. 2,160,657; May 30.
Haynes, William H., Little Rock, Ark. Grooving and surfacing machine. 2,160,732; May 30.
Hayton, Charles J., Los Angeles, Calif. Buffing equipment. 2,160,143; May 30.
Hazel-Atlas Glass Company. (See Flint, Francis C., assignor.)
Hazen, Ronald M., and T. S. McCrae, Jr., Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich. Welded two-piece light alloy piston. 2,159,989; May 30.
Heald Machine Company, The. (See Blood, Harold L., assignor.)
Hearn, Richard B., Hollis, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,160,017; May 30.
Hector, Ernest A., Jamestown, N. Y. Sign. 2,160,544; May 30.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Draft-gear housing. 2,160,417; May 30.
Hedges, Edward G., Newark, and R. Stickles, Union, N. J. Filling liquid dispensing systems. 2,160,501; May 30.
Hedquist, Carl S., Minneapolis, Minn. Clothespin bag. 2,160,658; May 30.
Heffner, Harry F., and L. L. De Turk, Kearny, N. J. Universal sled brake. 2,160,502; May 30.
Heim, Lewis R., Mount Dora, Fla. Making roller bearings. 2,160,382; May 30.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,160,250; May 30.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,160,251; May 30.
Henley, John C., et al. (See Dudenhofen, John J., assignor.)
Henney, Charles F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,160,733; May 30.
Hennig, Bruno, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of carbon tetrachloride. 2,160,574; May 30.
Henriksen, Ernst J. J., Copenhagen, Denmark. Self-winding recording device. 2,160,734; May 30.
Henry, Raymond. (See Shipmen, Frank S., assignor.)
Hensel, Franz R., assignor to P. R. Mallory & Co. Inc., Indianapolis, Ind. High resistance electrode. 2,160,659; May 30.
Herbst, Hans, Munich, Germany. Permutation lock. 2,160,698; May 30.
Hercules Powder Company. (See Thompson, Friar M., Jr.)
Herrmann, Willy O., Deisenhofen, assignor to Chemische Forschungsgesellschaft, m. b. H., Munich, Germany. Blood stancher. 2,160,503; May 30.
Herzig, Leonard A., Brooklyn, assignor to C. H. Venner, New York, N. Y. Exciter lamp. 2,159,990; May 30.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Speed controlled brake. 2,160,207; May 30.
Hicke, Johannes. (See Weichardt, R., Freistadt, and Hicke.)
Hickman, Katherine G., administratrix. (See Garrett, Georg K.)
Hicks, Harold L., et al. (See Hicks, Harry L., assignor.)
Hicks, Harry L., Pontiac, assignor of twenty-six per cent to H. L. Hicks and twenty-six per cent to H. L. Hicks, Pontiac, Mich. Buffing wheel and salvaging buffing wheels. 2,160,403; May 30.
Hicks, Hubert L., et al. (See Hicks, Harry L., assignor.)
Higham, William W., assignor to Universal Cooler Corporation, Detroit, Mich. Refrigerating system. 2,160,018; May 30.
Hilder, Stuart, Glencarlyn, Va., assignor to Monroe Calculating Machine Company, Orange, N. J. Calculating machine. 2,160,361; May 30.
Hill, Edward G., assignor to Hill Engineering Corporation, Richmond, Va. Automatic gear shifting mechanism. 2,160,331; May 30.
Hill Engineering Corporation. (See Hill, Edward G., assignor.)
Hill, Harry. (See Hunter, P. V., and Hill.)
Hiller, Mary E., Pittsburgh, Pa. Utility table. 2,160,144; May 30.
Hilliard Corporation, The. (See La Brecque, Theodore A., assignor.)
Hilpert, Meier G., Bethlehem, Pa. Prefabricated building unit and wall. 2,159,991; May 30.
Hinegardner, Wilbie S. (See Reichert, J. S., Hinegardner, and Potter.)
Hirsch, Willi. (See Walther, W., and Hirsch.)
Hobart, Henry M., Niskayuna, N. Y., assignor to General Electric Company. High potential terminal. 2,160,660; May 30.
Hoblitzell, Fred G., et al. trustees. (See Williamson, Henry C., assignor.)
Hodgson, Howard E., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Lifting magnet. 2,160,019; May 30.
Hoe, R., & Co. (See Clauberg, Herman P., assignor.)
Hoffer, James F., Detroit, Mich., assignor to Ex-Cell-O Corporation. Metering pump. 2,160,735; May 30.
Hoffman, William M., Youngstown, Ohio. Closet ventilator. 2,160,213; May 30.
Holmes, Herbert G., Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif. Wheel aligning aparatus. 2,160,145; May 30.
Holt, Laurence C. (See Sitzler, R. R., and Holt.)
Honda, Kikutaro, Toyonaka, Japan. Drafting apparatus for slivers for the production of spun yarns. 2,160,545; May 30.
Horger, Oscar J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Lubricating system for roller bearings. 2,160,418; May 30.
Horn, Ernst, Nuremberg, Germany. Device for winding up spring-driven clockworks of toy vehicles. 2,160,738; May 30.

Horsfield, Walter R., assignor to Electric Selectors Limited, Welwyn Garden City, England. Apparatus for feeding articles in sorting and like machines. 2,160,101; May 30.

Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Window wiper. 2,160,736; May 30.

Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner system. 2,160,737; May 30.

Horton, Frank J., assignor to No Sag Spring Company, Detroit, Mich. Wire bending machine. 2,160,020; May 30.

Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)

Houdaille-Hershey Corporation. (See Sandberg, Ray A., assignor.)

Housman, Alfred J., Hollis, N. Y., and W. S. Evans, Philadelphia, Pa., assignors to National Carbon Company, Inc. Folding easel. 2,160,457; May 30.

Howard, John H. (See Catland, A. C., and Howard.)

Hruska, Leo J., Merchantville, N. J., assignor to Radio Corporation of America. Rectifier system. 2,160,070; May 30.

Huber, Henry, Woodside, N. Y. Hair curling device. 2,160,362; May 30.

Huber, Paul M., assignor to General Motors Corporation, Detroit, Mich. Silencer. 2,160,332; May 30.

Huelster, Otto J., and J. G. Wolff, assignors to Scovill Manufacturing Company, Waterbury, Conn. Duplex snap fastener attaching machine. 2,160,146; May 30.

Huffman, Conard W., Lynwood, Calif. Fuel vaporizing unit for engines. 2,160,309; May 30.

Hughes Tool Company. (See Fletcher, Harold W., assignor.)

Hughes Tool Company. (See Schlumpf, Robert W., assignor.)

Hugus, Forrest S., Barberton, and L. R. Lower, Akron, assignors to The Sun Rubber Company, Barberton, Ohio. Rubber doll. 2,160,739; May 30.

Hull, Walter E., Galveston, Tex. Display rack. 2,160,102; May 30.

Hummel, Fred E. (See Ballentine, Earle W., assignor.)

Humphrey, Bingham J. (See Dunbrook, R. F., and Humphrey.)

Hunt, Jesse A., Collegepark, assignor to Egan Cotton Mills, Atlanta, Ga. Making slivers for use in padding. 2,159,992; May 30.

Hunt, Rufus W., Birmingham, Mich. Looseleaf binder. 2,160,147; May 30.

Hunter, Philip V., London, and H. Hill, Belvedere, assignors to Callender's Cable and Construction Company Limited, London, England. Metal rolling machine applicable for the manufacture of electric conductors. 2,160,268; May 30.

Hunyady, Istvân, Rakospalota, Hungary. Treatment of aluminum ores. 2,160,148; May 30.

Hnott, Edmond J., New York, N. Y. Penholder for inkstands. 2,160,661; May 30.

Hurlburt, Edward N., assignor to Taylor Instrument Companies, Rochester, N. Y. Electric contact thermometer. 2,160,404; May 30.

Hurtado, Paul A., Toledo, Ohio. Pedal-car shield. 2,160,546; May 30.

Hutchins, William H., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Room thermostat. 2,160,740; May 30.

Hygrade Sylvania Corporation. (See Biggs, Orrick H., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Baumann, P., Krapp, Schilling, and Stadler, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Hennig, Bruno, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, Willi, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Stärk, Hermann, assignor.)

J. G. Farbenindustrie Aktiengesellschaft. (See Voss, A., and Staerk, assignors.)

Iams, Harley A., Berkeley Heights, N. J., assignor by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrode arrangement for cathode ray tubes. 2,160,021; May 30.

Illinois Tool Works. (See Olson, Carl G., assignor.)

Imperial Chemical Industries Limited. (See Peacock, Roger B., assignor.)

Industrial Development & Research Laboratory, Inc. (See Lewit, Carl J., assignor.)

Ingersoll Milling Machine Company, The. (See Kampmeier, Frederick J., assignor.)

Ingersoll-Rand Company. (See Jimerson, F. A., and Reynolds, assignors.)

Ingouf, Robert J. A. (See Blaisdell, S. B., and Ingouf.)

International Engineering Corporation. (See Kliesrath, Victor W., assignor.)

International Harvester Company. (See Beckman, William O., assignor.)

International Shoe Company. (See Quinn, J. E., and Elliott, assignor.)

Interstate Bakeries Corporation. (See Weltmer, Tracey C., assignor.)

Iron Fireman Manufacturing Company. (See Bentall, Frank M., assignor.)

Irvine, Jan S. (See Slayter, G., and Irvine.)

Irving, John S., Birmingham, England, assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,160,071; May 30.

Irving, Walter E. (See Prince, Burton A., assignor.)

Isgren, Elmer E. (See Le Tourneau, R. G., Peterson, and Isgren.)

Jackson, Cecil, Sardis, Ohio. Apparatus for flushing and repacking automobile wheels. 2,160,214; May 30.

Jackson, Leslie K., assignor to North American Car Corporation, Chicago, Ill. Transmission. 2,160,215; May 30.

Jacobs, Rex C., Detroit, Mich. Automobile glare shield. 2,160,504; May 30.

Jacobs, Rex C., Detroit, Mich. Glare shield for automobiles. 2,160,505; May 30.

Jaeger, Gustav, Neu-Isenburg, and A. Wille, Frankfort-on-the-Main, assignors to Deutche Gold-und Silber-Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany. Decomposing beryllium minerals, particularly beryl. 2,160,547; May 30.

Jain, Lewis G. (See Magee, J., and Jain.)

James, Frederick S. (See Mayer, M. B., and James.)

Jamison, Claude T., assignor to W. F. Kramer, Alton, Ill. Clothes wringer. 2,160,363; May 30.

Jarrett, Tracy C. (See Splaine, E. M., and Jarrett.)

Jauch, Robert J., W. G. Polhamus, and R. H. Arnold, assignors to The Wayne Pump Company, Fort Wayne, Ind. Liquid dispensing apparatus. 2,160,459; May 30.

Jeffrey Manufacturing Company, The. (See Briggs, Robert E., assignor.)

Jellinek, Samuel, St. Louis, Mo. Dental plate cleanser. 2,160,149; May 30.

Jenkins, Tazewell H., Chicago, Ill. Carrier for bottles or other objects. 2,160,662; May 30.

Jensen, James A., and R. B. Ziegler, assignors to Quaker City Iron Works, Philadelphia, Pa. Distributor control valve for tank vehicles. 2,160,741; May 30.

Jensen, John P., Ashland, Wis. Cabinet ironing board. 2,160,435; May 30.

Jensen, Richard C., Scotia, N. Y., assignor to General Electric Company. Superregenerative detector circuit. 2,160,663; May 30.

Jimerson, Francis A., and H. C. Reynolds, Athens, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Impact wrench. 2,160,150; May 30.

Johnson, Fred A., Jr. (See Johnson, Fred A., assignor.)

Johnson, Fred A., assignor to F. A. Johnson, Junior, Chicago, Ill. Composite door. 2,160,151; May 30.

Johnson, Keith C., and R. C. Dunsmore, Pittsburgh, Pa., Splice bar. 2,160,310; May 30.

Johnston, Marshall E., St. Petersburg, Fla. Thermal accumulator. 2,160,333; May 30.

Jones, Bassett, New York, and J. S. Hamel, Babylon, assignors to New York World's Fair 1939 Inc., New York, N. Y. Fountain. 2,160,474; May 30.

Jones, John H., Bradford, Pa. Grasshopper holder. 2,160,436; May 30.

Jorolemon, Earl W., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Air heating and conditioning unit. 2,160,269; May 30.

Josephus, Joseph, Oakland, Calif. Freeze eliminator for dining car drains and the like. 2,160,475; May 30.

Jung, Reinhard. (See Martin, F., Tramm, and Jung.)

Kaasa, Gilbert O., Keewatin, Minn. Tool stand. 2,160,311; May 30.

Kahn, Albert, Inc. (See Schurman, John, assignor.)

Kampmeier, Frederick J., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Machine tool. 2,160,476; May 30.

Kane & Roach, Inc. (See Kane, William E., assignor.)

Kane, William E., assignor to Kane & Roach, Inc., Syracuse, N. Y. Machine for bending angle bars. 2,160,216; May 30.

Kannenberg, Walter F., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Light sensitive electric device and circuit therefor. 2,160,383; May 30.

Kannor, Henry L., Douglaston, N. Y., assignor to Talon, Inc. Slide fastener. 2,160,364; May 30.

Kantola, Carl F. (See Lentz, W. L., and Kantola.)

Karl, Heinrich, Jersey City, N. J. Preserving can or container. 2,160,072; May 30.

Karthaus, Hans, assignor to Continental Gummi-Werke Aktiengesellschaft, Hanover, Germany. Apparatus for vulcanizing rubber articles. 2,160,312; May 30.

Kaufmann, Henry W., East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Screen for cathode ray tubes. 2,160,022; May 30.

Kawamura, Fred H., Honolulu, Hawaii. Roofing tile. 2,160,548; May 30.

Kayler, Frank H. (See Kinne, E. P., and Kayler.)

Kazanjian, Souren, Woodside, Long Island, N. Y. Airtight covers for containers. 2,160,591; May 30.

Kelley, George W., Jr., Philadelphia, assignor of one-half to A. M. Soby, Overbrook, Pa. Garbage-rubbish incineration process. 2,160,699; May 30.

Kelley, Walter F., Whitestone, assignor to Remington Rand Inc., Buffalo, N. Y. Tape translator for card punching mechanism. 2,160,152; May 30.

Kelley, Walter F., Whitestone, assignor to Remington Rand Inc., Buffalo, N. Y. Clutch for statistical machines. 2,160,153; May 30.

Kellner, Gustav, Munich, Germany, assignor to E. Zacharias, New York, N. Y. Closing collapsible tubes by welding. 2,160,617; May 30.

Kellogg, William D., and H. C. Elgabroadt, assignors to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Making a pile fabric. 2,160,154; May 30.

Kelly, Sherman L., Toledo, Ohio. Tool for handling congealed materials. 2,160,023; May 30.

Kennedy, Edgar S., Norristown, Pa., assignor, by mesne assignments, to American Viscose Corporation. Thread guide for cone or tube winding machines. 2,160,780; May 30.

Kenney, Mahlon W., assignor to Seeburg Radio Corporation, Chicago, Ill. Radio apparatus. 2,160,270; May 30.

King, William J., East Orange, N. J., assignor to General Electric Company. Temperature regulating system. 2,160,592; May 30.

Kingman, Russell B., Orange, N. J. Wax or like applicator. 2,160,155; May 30.

Kingsbury, Edward J., Keene, N. H. Machine tool unit with feeding mechanism. 2,160,217; May 30.

Kingston, John R., and W. H. Powell, London, England. Combustion-product engine. 2,160,218; May 30.

Kinkead Industries Incorporated. (See Fanning, Wilbur A., assignor.)

Kinne, Edmund P., and F. H. Kayler, Alliance, assignors to American Steel Foundries, Chicago, Ill. Coupler. 2,160,419; May 30.

Kinnucan, Anne S., Chicago, Ill. Stocking suspender. 2,160,156; May 30.

Klein, August K. (See Maloney, Henry F., assignor.

Kliesrath, Victor W., South Bend, Ind., assignor, by mesne assignments, to International Engineering Corporation, Chicago, Ill. Automobile. 2,160,271; May 30.

Kling, August J., Schenectady, N. Y., assignor to General Electric Company. Photoelectric tube. 2,160,593; May 30.

Knabe, Richard. (See Burkhardt, A., and Knabe.)

Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 2,160,384; May 30.

Knowlton, M. D., Company. (See De Smith, Henry, assignor.)

Knox, William H., Jr., Nashville, Tenn., assignor to Victor Chemical Works. Crystalline anhydrous monocalcium phosphate. 2,160,700; May 30.

Knox, William H., Jr., Nashville, Tenn., assignor to Victor Chemical Works. Baking preparation. 2,160,701; May 30.

Koch, Winfield R., Merchantville, N. J., assignor to Radio Corporation of America. Reduction of noise. 2,160,073; May 30.

Kolb, Otto K., Chiswick, assignor to British Acoustic Films, Ltd., London, England. Reproduction of sound from record film. 2,160,506; May 30.

Kol-Master Corporation. (See Bressler, Robert E., assignor.)

Kommer, Fred A. (See Blattner, A. H., and Kommer.)

Kortenray, Willem. (See de Jong, H. Bergmans, and Kortenray.)

Kraemer, George, and L. Bergeron, Jamaica, N. Y. Power transmitting system. 2,160,385; May 30.

Krafft & Weichardt. (See Weichardt, R., Freistadt, and Hicke, assignors.)

Kraft, Wheaton W., New York, N. Y., and W. J. Bloomer, Bayonne, N. J., assignors to The Lummus Company, New York, N. Y. Distilling residues. 2,160,103; May 30.

Kramer, Andrew A., Kansas City, Mo. Vehicle tank. 2,160,477; May 30.

Kramer, William F. (See Jamison, Claude T., assignor.)

Kramis, Karl, Zurich, Switzerland. Pneumatic tire. 2,160,219; May 30.

Kranz, Harry W. Lakewood, assignor to The Cleveland Welding Company, Cleveland, Ohio. Vehicle wheel. 2,160,272; May 30.

Krupp, Karl. (See Baumann, P., Krapp, Schilling and Stadler.)

Kraus, O. (See Bakonye, Stefan, assignor.)

Krause, Norman R., Racine, Wis. Lubricating device. 2,160,508; May 30.

Krebs, Ernst W., Berlin-Reinickendorf, Germany, assignor to General Electric Company. Alternating-current dynamo-electric machine. 2,160,594; May 30.

Kreienfeld, Friedrich, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio receiver. 2,159,970; May 30.

Kreutzig, Elsa, Jersey City, N. J. Comb brush. 2,160,618; May 30.

Krogh, Anker E., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,159,971; May 30.

Krom, Myron E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,160,507; May 30.

Krueger, Archie S. (See Broeren, F. L., and Krueger.)

Krueger, Theodore H., Shelton, Conn. Label and labeling. 2,159,993; May 30.

Kuhn, Karl A., Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Tap wrench. 2,160,664; May 30.

Kulow, John H., Buffalo, N. Y. Calendar device. 2,160,104; May 30.

Kurth, Franz J., New York, N. Y. Air conditioning device. 2,160,549; May 30.

La Brecque, Theodore A., assignor to The Hilliard Corporation, Elmira, N. Y. Reclaiming apparatus. 2,159,994; May 30.

La Brie, Ludger E., assignor to Bendix Products Corporation, South Bend, Ind. Equalizing means for hydraulic brakes. 2,160,074; May 30.

La Brie, Ludger E., assignor to Bendix Products Corporation, South Bend, Ind. Master cylinder for hydraulic brakes. 2,160,075; May 30.

Laico, Joseph P., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mounting for electron discharge devices. 2,160,478; May 30.

Landis Tool Company. (See Balsiger, Harold E., assignor.)

Landrieu, Max, Paris, assignor to Société Anonyme d'Escaut & Meuse, Anzin, France. Tube rolling mill. 2,160,742; May 30.

Lansing, Horace L., Rutherford, N. J., assignor to Poor & Company, New York, N. Y. Head-free rail joint. 2,160,334; May 30.

Lansing, Raymond P., Montclair, N. J., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,160,479; May 30.

Larrecq, Anthony J., Schnectady, N. Y., assignor to General Electric Company. Mercury boiler. 2,160,619; May 30.

Larson, Arvid, East Hempsted, Long Island, N. Y. Swimming device. 2,159,972; May 30.

Larsson, Henry W., deceased; by J. D. Larsson, executrix, Albany, Calif. Grinding machine. 2,160,365; May 30.

Larsson, Josephine D., executrix. (See Larsson, Henry W.)

Lauth, Hellmuth. (See Bauer, W., and Lauth.)

Lawson, Walter E., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Gelatinized high explosive composition and method of preparation. 2,159,973; May 30.

Lebert, Peter, Chicago, and R. Dack, Congress Park, assignors to G. & L. Machine & Tool Works, Chicago, Ill. Holder assembly for reflector type floor lamps. 2,160,157; May 30.

Le Bleu, Charles, Los Angeles, Calif. Trail builder, bulldozer, and the like. 2,160,596; May 30.

Le Bleu, Charles, Los Angeles, Calif. Bulldozer. 2,160,702; May 30.

Le Bleu, Charles, assignor to Emsco Derrick and Equipment Company, Los Angeles, Calif. Hydraulically operated scraper and the like. 2,160,595; May 30.

Le Blond, R. K., Machine Tool Company, The. (See Greene, William F., assignor.)

Leister, Fayette, Detroit, Mich., assignor to The Fafner Bearing Company, New Britain, Conn. Bearing. 2,160,220; May 30.

Lentz, William L., Tuckahoe, N. Y., and C. F. Kantola, Ashtabula, Ohio, assignors to The New York Central Railroad Company. Door actuating mechanism for locomotive tender fuel doors. 2,160,743; May 30.

Le Tourneau, R. G., Inc. (See Le Tourneau, R. G., Peterson, and Isgren, assignors.)

Le Tourneau, Robert G., R. Peterson, and E. E. Isgren, Peoria, Ill., assignors to R. G. Le Tourneau, Inc. Feed control for welding rods. 2,160,480; May 30.

Levesque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sewing machines. 2,160,105; May 30.

Lévy, René L., Montrouge, France, assignor to Société d'Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland. Propeller for aircraft and the like. 2,160,745; May 30.

Lewit, Carl J., assignor to Industrial Development & Research Laboratory, Inc., Atlanta, Ga. Method of and pad for hair waving. 2,160,744; May 30.

Libbey-Owens-Ford Glass Company. (See Drake, J. L., Handy and Fowler, assignors.)

Libbey-Owens-Ford Glass Company. (See Ford, George R., Jr., assignor.)

Libbey-Owens-Ford Glass Company. (See Robertson, William J., assignor.)

Libbey-Owens-Ford Glass Company. (See Rosin, Edwin A., assignor.)

Lichtenstein, Johann. (See Gistucci, P. X. A., and Lichtenstein.)

Lieb, Abram S. (See Bowie, F. W., and Lieb.)

Lifton, Samuel H., Brooklyn, N. Y. Brief case. 2,159,995; May 30.

Lind, John H., Santa Barbara, Mexico, assignor to American Smelting and Refining Company, New York, N. Y. Drill. 2,160,158; May 30.

Linderman, Joseph, Chicago, Ill. Transfer. 2,160,665; May 30.

Lindsay, James A., Spokane, Wash. Furnace. 2,160,509; May 30.

Line Material Company. (See Steinmayer, Alwin G., assignor.)

Lines, Edwin M. (See Graham, J. E., and Lines.)

Linge, Jacob H. (See Wood, Byron A., assignor.)

Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)

Livingston, Orrin W. (See Teare, W. H., and Livingston.)

Loane, Clarence M. (See Shoemaker, B. H., and Loane.)

Loane, Clarence M., and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,160,273; May 30.

Lockwood, Lee. Des Moines, Iowa. Furnace. 2,160,481; May 30.
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovery process. 2,160,575; May 30.
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of anhydrous boron fluoride. 2,160,576; May 30.
Lofstrand, Albin P., Chicago, Ill. Grain shocker. 2,160,335; May 30.
Logan, Joseph A., Springfield, and W. H. De Lancey, Springfield, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid dispensing apparatus. 2,160,386; May 30.
Lohr, Raymond J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Multiple vehicle toy. 2,159,974; May 30.
Lopez, Nicholás A., Chicago, Ill. Portable power driven tool. 2,160,274; May 30.
Low, John M., Richmond, Va. Bag filling and weighing machine. 2,160,746; May 30.
Lower, Lester R. (See Hugus, F. S., and Lower.)
Lukasiewicz, Ignatius, Detroit, Mich. Clip forming and clamping machine. 2,160,781; May 30.
Lummus Company, The. (See Kraft, W. W., and Bloomer, assignors.)
Lundstedt, Erik, Goshen, and J. Taub, Brooklyn, assignors to Newark Cheese Co., Inc., New York, N. Y. Cheese product and process of manufacture. 2,160,159; May 30.
Lupton, Elmer H., Ilchester, Md. Bottle carrier. 2,160,550; May 30.
Lupton, Elmer H., Ilchester, Md. Bottle carrier. 2,160,551; May 30.
Lux Clock Manufacturing Company, The. (See Lux, Frederick, assignor.)
Lux, Frederick, assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Synchronous motor. 2,160,076; May 30.
Lyon, Norman W., assignor to National Bread Wrapping Machine Co., Springfield, Mass. Bread slicing machine. 2,160,387; May 30.
M-O Valve Company. (See Warren, Geoffrey W., assignor.)
Maag, Oscar L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Lubricant. 2,160,577; May 30.
Maasberg, Albert T., assignor to The Dow Chemical Company, Midland, Mich. Water soluble cellulose ethers. 2,160,782; May 30.
Madison, Jennie M., executrix. (See Madison, John O.)
Madison, John O., deceased, Kings County, N. Y., by J. M. Madison, executrix, Brooklyn, assignor to The Symington-Gould Corporation, Rochester, N. Y. Journal box. 2,159,996; May 30.
Magazine Repeating Razor Company. (See Rodrigues, Octavius V., assignor.)
Magee, James, and L. G. Jain, Genesee, Idaho. Straw spreader. 2,160,275; May 30.
Maiben, Charles H., Logansport, Ind. Togging machine. 2,160,552; May 30.
Maiuri, Guido, London, England. Production of liquid air, and the production of oxygen therefrom, and the liquefaction and separation of other gases. 2,160,077; May 30.
Mallalieu, Frank R., Oxford, Pa. Magnetic work holder. 2,160,405; May 30.
Mallory, P. R., & Co. Inc. (See Hensel, Franz R., assignor.)
Malone, Harry S. (See O'Connell, J. J., and Malone.)
Maloney, Henry F., Newton, assignor of one-half to A. K. Klein, Halstead, Kans. Windshield defroster. 2,160,597; May 30.
Marathon Paper Mills Company. (See Broeren, F. L., and Krueger, assignors.)
Marcellus, Brooks, assignor to Barber-Colman Company, Rockford, Ill. Warper apparatus. 2,160,024; May 30.
Marchenko, Michael, New York, N. Y. Sliding roof panel. 2,160,366; May 30.
Marien, Charles A., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston spreader. 2,159,975; May 30.
Marinsky, Davis, and L. H. Morin, Bronx, assignors to Whitehall Patents Corporation, New York, N. Y. Slider for separable fasteners. 2,160,160; May 30.
Markley, Samuel C., Roanoke, Va. Cleaner for carding bar teeth. 2,160,703; May 30.
Marsh, Reginald E., Bronxville, N. Y., assignor to Simplon Products Corporation. Furring system. 2,160,161; May 30.
Martin, Charles E., Binghamton, assignor to Endicott Johnson Corporation, Endicott, N. Y. Die stock and making cutting dies. 2,160,437; May 30.
Martin, Erle, West Hartford, Conn., assignor, by mesne assignments, to United Aircraft Corporation. Hydraulic control mechanism. 2,160,025; May 30.
Martin, Friedrich, Oberhausen, H. Tramm, Oberhausen-Holten, and R. Jung, Oberhausen-Sterkrade, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holtern, Germany. Heat treatment of hydrocarbon gases to dehydrogenate the same. 2,160,170; May 30.
Martin, Josef, Munich, Germany. Ash removing device. 2,160,026; May 30.
Martinotti, Pietro, La Garenne, France. Centrifugal governor. 2,160,553; May 30.
Marx, Louis, & Company. (See Lohr, Raymond J., assignor.)
Mascré, Jacques E. J. G., Premery, assignor to Etablissements Lamblotte Freres, Premery (Nievre), France. Product for inhibiting the attack on metals by acids or salts and its applications. 2,160,406; May 30.
Master Lock Company. (See Soref, Harry E., assignor.)
Master Rule Manufacturing Company. (See Carlson, Frederick O., assignor.)
Masters, Orville M., and H. G. Stager, Syracuse, N. Y. Shipping container construction. 2,160,221; May 30.
Matchett, Henry I., Philadelphia, Pa. Sealing tin-tie bags. 2,159,976; May 30.
Mateer, George L. (See Nichols, H. J., Jr., and Mateer.)
Matthias, Eugen, Celerina, Switzerland. Foot-sole-contour determining apparatus. 2,160,027; May 30.
Maxfield, Daniel E., Philadelphia, assignor to Stokes and Smith Company, Summerdale, Pa. Making sealed packages. 2,160,367; May 30.
Maxfield, Omer R., Temple, Tex. Roof seaming machine. 2,160,336; May 30.
Maxwell, Robert W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dissolving alkali soluble cellulose derivatives. 2,160,106; May 30.
Maxwell, Robert W., and J. H. Shipp, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing cellulose derivatives. 2,160,107; May 30.
Mayer, Margaret B., and F. S. James, Philadelphia, Pa. Safety control for hydraulic brake appliances. 2,160,747; May 30.
Mayer, Milton, assignor to Vanity Corset Co., New York, N. Y. Garment. 2,160,078; May 30.
Maynard, Guy, Lexington, Mass. Safety device for gasline leakage. 2,160,748; May 30.
McCarty, Malcolm D., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Blasting machine. 2,160,222; May 30.
McCarvey, Julius E., Griffin, Ga. Loom attachment. 2,160,749; May 30.
McCaskey Register Company, The. (See Clark, Harold W., assignor.)
McCauley, George V., assignor to Corning Glass Works, Corning, N. Y. Ceramic mold. 2,160,438; May 30.
McConnell, Andrew J., Upper Darby, Pa., assignor to General Electric Company. Protective apparatus. 2,160,599; May 30.
McCrae, Thomas S., Jr. (See Hazen, R. M., and McCrae.)
McDonald, Irvin F., Los Angeles, Calif. Machine for making pies, turnovers, and the like. 2,160,783; May 30.
McElwee, Lawrence. (See Thompson, Arden A., assignor.)
McGregor, Thomas A., assignor to American Forging & Socket Company, Pontiac, Mich. Seat construction. 2,160,482; May 30.
McHale, Olive P., et al. (See Millar, Stephen R., assignor.)
McKee, Hugh, Sapulpa, Okla. Garment blocking device. 2,160,337; May 30.
McKee, Thomas C., Chicago, Ill. Liquid level indicator. 2,160,276; May 30.
McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Fan. 2,160,666; May 30.
McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Fan. 2,160,667; May 30.
McManus, Charles E., Spring Lake, and F. L. Darling, Teaneck, N. J., assignors, by mesne assignments, to Crown Can Company, Philadelphia, Pa. Can piercing and serving device. 2,160,705; May 30.
McNaney, Patrick J., New York, N. Y. Door fastener. 2,160,460; May 30.
McNeal, Donald L., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Speed controlled brake. 2,160,208; May 30.
Melrath, Earle G., Philadelphia, Pa., assignor, by mesne assignments, to American Flange & Manufacturing Co., Inc., New York, N. Y. Mounting a sput in a metal container. 2,160,598; May 30.
Menefee, Arthur B. (See Armstrong, H. H., and Menefee.)
Mengel Body Company. (See Green, W. T., and Brenner, assignors.)
Merolle, Augustus L., assignor of one-half to Empire Metal Cap Co., Inc., Brooklyn, N. Y. Receptacle and closure therefor. 2,160,704; May 30.
Merrill, Robert A. (See Sloman, C. M., and Merrill.)
Messer, Edward, assignor to Cannon Mills Company, Kannapolis, N. C. Harness cam control. 2,160,554; May 30.
Metal Hose & Tubing Co. (See Wallace, A. L., and Berkowitz, assignors.)
Metalectric Corporation, The. (See Watson, Edgar E., assignor.)
Meuser, Ludwig, Naugatuck, and C. S. Dewey, Cheshire, Conn., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Manufacture of aliphatic ketone-diarylamine antioxidants. 2,160,223; May 30.
Meyer, Louis, New York, N. Y., assignor, by mesne assignments, to American Type Founders, Inc., Elizabeth, N. J. Photographic composing machine. 2,160,750; May 30.

Meyer, Raymond, assignor to Pathé Cinema, Anciens Établissements Pathé Freres, Paris, France. Method and apparatus for the elimination of defects in sound tracks. 2,160,252; May 30.
Midyette, John T., Jr., Scarsdale, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heating system. 2,160,600; May 30.
Miescher, Karl, Roehen, and C. Scholz, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Partially esterified compounds of the dihydroestrin series and making same. 2,160,555; May 30.
Milbank, Elmer F., Galesburg, Ill., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricating device. 2,160,784; May 30.
Millar, Alberta J., et al. (See Millar, Stephen R., assignor.)
Millar, Stephen R., assignor of one-half to A. J. Millar and one-half to O. P. McHale, Los Angeles, Calif. Quantity indicating wrapper. 2,159,997; May 30.
Miller, James E., Sherman, Tex. Hand truck. 2,160,556; May 30.
Miller, William J., Swissvale, Pa. Apparatus for the manufacture of pottery ware. 2,160,483; May 30.
Miller, William J., Swissvale, Pa. Apparatus for the manufacture of articles from plastic materials. 2,160,484; May 30.
Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Coin selector. 2,160,751; May 30.
Mills Novelty Company. (See Mills, Bert E., assignor.)
Mills Novelty Company. (See Smith, James T., assignor.)
Miner, W. H., Inc. (See Dwyer, William M., assignor.)
Miner, W. H., Inc. (See Olander, Roland J., assignor.)
Minneapolis-Honeywell Regulator Company. (See Cunningham, Lewis L., assignor.)
Minneapolis-Honeywell Regulator Company. (See Midyette, John T., Jr., assignor.)
Minneapolis-Honeywell Regulator Company. (See Taylor, Daniel G., assignor.)
Minton, John P., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Seismic survey. 2,160,224; May 30.
Modisette, James C. (See Weller, Frank F., assignor.)
Moessinger, Albert, Zurich, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Shuttle picking mechanism. 2,160,338; May 30.
Moessinger, Albert, Zurich, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Shuttle picking mechanism. 2,160,339; May 30.
Mohawk Carpet Mills, Inc. (See Kellogg, W. D., and Elgabroadt, assignors.)
Möller, Rolf, and E. Ruska, Berlin-Zehlendorf, assignors to the firm Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Cathode ray tube with photocell mosaic. 2,160,510; May 30.
Monesson, Israel, Lakewood, N. J. Elastic belt. 2,160,368; May 30.
Monroe Calculating Machine Company. (See Hilder, Stuart, assignor.)
Moore, Fred W., assignor to National Pumps Corporation, Dayton, Ohio. Bypass valve. 2,160,028; May 30.
Moriarty, George A., San Diego, Calif. Antislipping device. 2,160,601; May 30.
Morin, Louis H. (See Marinsky, D., and Morin.)
Morris Paper Mills. (See Gamble, Wilfred M., assignor.)
Morrison, Willard L., Lake Forest, Ill. Bumper device. 2,160,439; May 30.
Morsbach, Kurt, Berlin-Grunewald, and K. Raschke, Berlin, Germany, assignors, by mesne assignments, to Camera Patents Corporation, Ridgewood, N. J. Film holder for photographic cameras. 2,159,998; May 30.
Morse, Shirley P., East Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Fruit juice extracting and straining appliance. 2,160,388; May 30.
Morway, Arnold J., Roselle, and J. C. Zimmer, Hillside, N. J., assignors to Standard Oil Development Company. Adherent greases and method for manufacturing the same. 2,160,162; May 30.
Murray Corporation of America, The. (See Graebner, O. F., and Westrope, assignors.)
Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)
Myers, Harold L., Morristown, N. J. Container. 2,160,620; May 30.
N. V. Philips' Gloeilampenfabricken. (See Niclassen, Hans, assignor.)
N. V. Philips' Gloeilampenfabricken. (See van Urk, A. T., and Vermeulen, assignors.)
Nagel, William F., assignor to The Air Conditioning Company, Clermont, Fla. Dispenser. 2,160,602; May 30.
Nampa, Sulo M., Detroit, Mich., assignor to The Worth Company. Car loading device. 2,160,079; May 30.
Nash, Richard L., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,160,190; May 30.
National Airoil Burner Company. (See Ferguson, William, assignor.)
National Blank Book Company. (See Schade, Frank S., assignor.)
National Bread Wrapping Machine Co. (See Lyon, Norman W., assignor.)
National Carbon Company. (See Evans, Morton E., and W. S., assignors.)
National Carbon Company. (See Housman, A. J., and Evans, assignors.)
National Folding Box Company. (See Ringler, William A., assignor.)
National Pumps Corporation. (See Moore, Fred W., assignor.)
Neidich, Samuel A., Burlington, N. J. Ribbon ink composition. 2,160,511; May 30.
Neidich, Samual A., Ventnor, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Photographic line-justifying apparatus. 2,160,277; May 30.
Nelson, Mary B., Weston, Nebr. Skirt hanger or the like. 2,160,785; May 30.
Ness, William H. C., and M. B. Sawyer, Los Angeles, Calif. Portable exhauster. 2,160,278; May 30.
Neville Company, The. (See Carmody, William H., assignor.)
Newark Cheese Co. (See Lunstedt, E., and Taub, assignors.)
Newbold, Robert. (See Fletcher, Joseph A., assignor.)
Newgard, Ingwald M., Glendale, Calif., assignor, by mesne assignments, to Gel-Sten, Incorporated, Wilmington, Del. Duplicating machine. 2,160,080; May 30.
Newman, David F., Rockville Centre, N. Y., assignor to Trans-Lux Corporation. Method of and apparatus for controlling movement of a character-bearing web. 2,160,530; May 30.
Newman, John J., assignor of one-half to J. H. Hammon, Vincennes, Ind. Building construction. 2,160,225; May 30.
New Products Corporation. (See Banker, Oscar H., assignor.)
New York Central Railroad Company, The. (See Lentz, W. L., and Kantola, assignors.)
New York World's Fair 1939 Inc. (See Jones, B., and Mamel, assignors.)
Nicholas, Isaac A., Pittsburgh, Pa., assignor to The Standard Lime and Stone Company, Baltimore, Md. Removing impurities from molten metals and a flux for effecting said process. 2,159,977; May 30.
Nichols, Henry J., Jr., Scotch Plains, and G. L. Mateer, Roselle, N. J., assignors to Standard Oil Development Company. Fractionating gaseous mixtures. 2,160,163; May 30.
Nicholson, Frank H., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train control system. 2,160,668; May 30.
Niclassen, Hans, Berlin, Germany, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electron discharge tube. 2,160,081; May 30.
Nicolson, James G., Niagara Falls, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Apparatus and process for welding pipe. 2,160,082; May 30.
Nicostat Products, Inc. (See Borresen, Nico, assignor.)
Nielsen, Laurits H., Kolding, Denmark, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Sectional brush. 2,160,029; May 30.
Nitsche, Paul, Dresden, Germany. Production of alcoholic solutions of sulphur and metal sulphides. 2,160,030; May 30.
Nordmann, Charles, Paris, France. Method and device for obtaining or reproducing color photographs. 2,160,340; May 30.
Norres, Wilhelm, Dorsten, Germany. Wire joint, especially for electrical shot-firing outfits or similar provisional electrical circuits. 2,160,313; May 30.
North American Car Corporation. (See Jackson, Leslie K., assignor.)
North Star Specialty & Manufacturing Company. (See Ohme, Walter F., assignor.)
No Sag Spring Company. (See Horton, Frank J., assignor.)
Obrecht, Norbert L., assignor to American Forging & Socket Company, Pontiac, Mich. Hinge construction. 2,160,485; May 30.
O'Connell, John J., and H. S. Malone, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Shipping crate. 2,160,461; May 30.
Odell, Stanley F., assignor to Dutchess Tool Company, Beacon, N. Y. Transfer mechanism. 2,160,557; May 30.
Oehler, Alvin W., and R. L. Anderson, assignors to Deere & Company, Moline, Ill. Corn picker. 2,160,486; May 30.
Ohle, Heinz, Hohen Neuendorf, near Berlin, Germany. Production of saccharosonic acids and their salts. 2,160,621; May 30.
Ohme, Walter F., assignor to North Star Specialty & Manufacturing Company, Minneapolis, Minn. Perforate table. 2,160,031; May 30.
Ohmer, John F., Dayton, assignor, by mesne assignments, to Central National Bank of Cleveland, Cleveland, Ohio, as trustee. Printing odomter. 2,160,032; May 30.
Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 2,160,279; May 30.
Oliver, Albert V., Coventry, England. Friction clutch. 2,160,752; May 30.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Tapping screw. 2,160,706; May 30.
Olson, John E., and L. A. Amtsberg, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Nut runner. 2,160,622; May 30.

Ongaro, Theodore, Columbus, Ohio. Balancing machine. 2,160,314; May 30.
Orr, John B., Jr., Edgeworth, Pa. Making composite metals. 2,160,558; May 30.
Orr, John B., Jr., Sewickley, Pa. Manufacture of composite metal members. 2,160,559; May 30.
Orth, William G. (See Wheelbarger, A. S., and Orth.)
Osborn Manufacturing Company, The. (See Nielsen, Laurits, assignor.)
Oswald, Marcel, Paris, France, assignor to General Electric Company. Manufacturing hard frittered alloys. 2,160,670; May 30.
Owens-Corning Fiberglas Corporation. (See Saborsky, Arthur D., assignor.)
Owens-Corning Fiberglas Corporation. (See Slayter, G., and Irvine, assignors.)
Owens-Corning Fiberglas Corporation. (See Walker, John E., assignor.)
Pace, Clyde A., Atlanta, Ga. Loom attachment. 2,160,707; May 30.
Pacific, Arthur C., Detroit, Mich. Furnace wall construction. 2,160,512; May 30.
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Paine & Williams Company, The. (See Vrooman, William S., assignor.)
Palmer, Frank D., assignor of one-third to C. Spray, Chicago, Ill. Container. 2,160,164; May 30.
Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system. 2,160,389; May 30.
Pangborn Corporation. (See Hamren, Eric O., assignor.)
Parkin, Winfred T., Providence, R. I. Container closure. 2,159,978; May 30.
Parkinson, Frank D., Blackpool, England. Decoration of glass and ceramic sheets, tiles, and other products. 2,160,560; May 30.
Parsons, Ralph M., assignor to Bechetel-McCone-Parsons Corporation, Los Angeles, Calif. Remote controlled pressure relief valve. 2,159,979; May 30.
Pasternak, Jacob, Dallas, Tex. Cap. 2,160,513; May 30.
Patents & Royalties Corporation. (See Turney, Harry L., assignor.)
Pathé Cinema, Anciens Etablissements Pathé Freres. (See Meyer, Raymond, assignor.)
Patterson, John V., Pittsburgh, Pa. Nondiluting cooling device. 2,160,165; May 30.
Pausin, Hugo R., Maplewood, N. J. Loudspeaker. 2,160,166; May 30.
Peacock, Roger B., Knebworth, England, assignor to Imperial Chemical Industries Limited. Electrical apparatus. 2,160,708; May 30.
Pearson, Carl O., and C. L. Sherwood, Pontiac, Mich. Electrical connector. 2,160,440; May 30.
Pearson, John M., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Electrical measuring method and means. 2,160,671; May 30.
Peckham, Arthur C., Watertown, N. Y. Separator for adjusting the human vertebrae. 2,160,709; May 30.
Perry, Arthur St. C., Detroit, Mich., assignor to Dual Message Clock Co. Advertising device. 2,160,561; May 30.
Persons, Lawrence M., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo. Purging thermostats. 2,160,280; May 30.
Persons, Lawrence M., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo. Control casing. 2,160,623; May 30.
Peters, Fred, Ogallala, Nebr. Portable bending brake. 2,160,441; May 30.
Peterson, Conrad S., Cleveland Heights, Ohio, assignor to General Electric Company. Tubular lamp base. 2,160,786; May 30.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Idle time keying. 2,160,083; May 30.
Peterson, Ray. (See Le Tourneau, R. G., Peterson, and Isgren.)
Pfannenstiehl, Harry, Mountain Lakes, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way operating mechanism for shutters. 2,160,390; May 30.
Pfeiffer, Gustav, Bonn-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Process and media for the preservation of green fodder. 2,160,167; May 30.
Pfeiffer, Gustav, Bonn-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Process and media for the preservation of green fodder. 2,160,168; May 30.
Phillips, Charles S., Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif. Portable wheel aligner. 2,160,226; May 30.
Phillips Petroleum Company. (See Drennan, Harry E., assignor.)
Pintsch, Julius, Kommanditgesellschaft. (See Hass, C., Witt and Quade, assignors.)
Piou de Saint-Gilles, Gaston O. F., and J. G. Y. Saget, Paris, France. Molded artificial fuel. 2,160,442; May 30.
Pitman, Henry L., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and computing machine. 2,160,487; May 30.
Pittman, Ralph R., and C. H. Walsh, Pine Bluff, Ark. Circuit breaker. 2,160,562; May 30.
Platinum Products Corp. (See Schmitt, George P., assignor.)
Platt, Stephen A., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Electric heating device. 2,160,227; May 30.
Ploke, Martin, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Image dissector tube. 2,160,672; May 30.
Polhamus, William G. (See Jauch, R. J., Polhamus, and Arnold.)
Pollopas Patents Limited. (See de Rougé, Charles R. A. M., assignor.)
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple driving machine. 2,160,514; May 30
Pontoppidan, Carl, Holte, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Mill. 2,160,169; May 30.
Poor & Company. (See Lansing, Horace L., assignor.)
Poor & Company. (See Ryan, Thomas, assignor.)
Popick, A., Manufacturing Company (See Billows, John W., assignor.)
Potter, Howard L. (See Reichert, J. S., Hinegardner, and Potter.)
Potter, Howard L. (See Reichert, J. S., and Potter.)
Powell, William H. (See Kingston, J. R., and Powell.)
Pranger, Albert, assignor to The Gulberson Corporation, Dallas, Tex. Well packer. 2,160,515; May 30.
Pranger, Albert, assignor to The Gulberson Corporation, Dallas, Tex. Bushing for rotary tables. 2,160,516; May 30.
Pressed & Welded Steel Products Company. (See Haskin, Walter E., assignor.)
Price, Earl R. (See Price, Harold W., and E. R.)
Price, Harold W., and E. R., assignors to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,160,084; May 30.
Price, Joseph W., Jr., assignor to The United States Metallic Packing Company, Philadelphia, Pa. Double-acting ratchet mechanism. 2,160,753; May 30.
Price, Manley R., Lakewood, Ohio. Building construction. 2,160,794; May 30.
Price, Nathan C., Seattle, Wash. Aircraft power plant. 2,160,281; May 30.
Prince, Burton A., Westfield, Mass., assignor to W. E. Irving, Glenbrook, Conn. Double-decked grating-paved street. 2,160,315; May 30.
Prince, David C., Swarthmore, Pa., assignor to General Electric Company. Electric circuit breaker. 2,160,673; May 30.
Procunier, Harry G., assignor to Procunier Safety Chuck Company, Chicago, Ill. Drill press for tapping attachment. 2,160,674; May 30.
Procunier Safety Chuck Company. (See Procunier, Harry G., assignor.)
Pustmueller, Paul S., Bakersfield, assignors to Shell Development Company, San Francisco, Calif. Process and apparatus for cementing oil wells. 2,160,228; May 30.
Quade, Wilhelm. (See Hass, C., Witt, and Quade.)
Quaker City Iron Works (See Jensen, J. A., and Ziegler, assignors.)
Quinn, James E., Normandy, and H. F. Elliott, University City, assignors to International Shoe Company, St. Louis, Mo. Making shoes. 2,160,624; May 30.
Quinn, James E., Normandy, and H. F. Elliott, University City, assignors to International Shoe Company, St. Louis, Mo. Shoe. 2,160,625; May 30.
Rabinowitz, Harry, and M. Rabinowitz, Brooklyn, N. Y. Combination metal cap and dauber. 2,160,517; May 30.
Rabinowitz, Murray. (See Rabinowitz, Harry, and M.)
Radiator Specialty Company. (See Stewart, Ralph T., assignor.)
Radio Corporation of America. (See Banks, George B., assignor.)
Radio Corporation of America. (See Fischer, Edwin L., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Hruska, Leo J., assignor.)
Radio Corporation of America. (See Iams, Harley A., assignor.)
Radio Corporation of America. (See Kaufmann, Henry W., assignor.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Riddle, James M., Jr., assignor.)
Radio Corporation of America. (See Shepard, Francis H., Jr., assignor.)
Radio Corporation of America. (See Smith, Sidney B., assignor.)
Radio Corporation of America. (See Spencer, James A., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Radio Corporation of America. (See Weathers, Paul, assignor.)
Radio Corporation of America. (See Williams, Gurdon H., assignor.)

Ragatz, Edward G. (See Aldridge, B. G., and Ragatz.)
Ramsey Accessories Manufacturing Corporation. (See Marien, Charles A., assignor.)
Raschke, Kurt. (See Morsbach, K., and Raschke.)
Rausch, August. (See Arndt, F., Rausch, and Staffel.)
Reade, Ralph W. B., Winnetka, assignor to United States Gypsum Company, Chicago, Ill. Forming thick butt shingles. 2,160,787; May 30.
Redler Conveyor Company. (See Sinden, Alfred De L., assignor.)
Reed, Eo. (See Asbury, R. E., and Reed.)
Rehg, Hugo F., Wichita, Kans. Arm rest container. 2,160,282; May 30.
Reichert, Joseph S., W. S. Hinegardner, and H. L. Potter, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bleaching process and composition. 2,160,391; May 30.
Reichert, Joseph S., and H. L. Potter, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preventing the caking of sodium perborate. 2,159,999; May 30.
Reichert, Theophil, Brilonwald, assignor to the firm of Deutsche Gold- und Silber Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany. Carbonization of organic cellulosic materials of vegetable origin. 2,160,341; May 30.
Reid, James S., Shaker Heights, Ohio, assignor to Thermo-Plastics, Inc., St. Clair, Mich. Method and apparatus for covering thin wall tubing. 2,160,108; May 30.
Remington Arms Company. (See Brün, W., and Burns, assignors.)
Remington Arms Company. (See Reynolds, Warren S., assignor.)
Remington Rand Inc. (See Anderson, Harry T., assignor.)
Remington Rand Inc. (See Kelley, Walter F., assignor.)
Remington Rand Inc. (See Roggenstein, Edwin, assignor.)
Renneberg, Edgar, assignor to The Safety Equipment Service Company, Cleveland, Ohio. Connecting or securing means. 2,160,675; May 30.
Republic Flow Meters Company. (See Grisdale, George W., assignor.)
Resinous Products & Chemical Company, The. (See Bruson, H. A., and Eastes, assignors.)
Resistoflex Corporation. (See Schnabel, Ernst, assignor.)
Reynolds, Harold C. (See Jimerson, F. A., and Reynolds.)
Reynolds, Warren S., Stratford, Conn., assignor to Remington Arms Company, Inc. Packaging machine. 2,160,518; May 30.
Rhein, William E. H., Reading, Pa. Combined intake and exhaust valve for internal combustion engine. 2,160,000; May 30.
Ribble, John M., Petersburg, Va. Auxiliary calking flange for tunnel-lining joints. 2,160,342; May 30.
Richard, Clement C., Bloomfield Hills, assignor to Allied Products Corporation, Detroit, Mich. Combined punch and stripper. 2,160,876; May 30.
Richards, Edith G., South Portland, Maine, assignor to The Watson Company, Attleboro, Mass. Coaster for holding drinking vessels. 2,160,468; May 30.
Riddle, James M., Jr., West Collingswood, N. J., assignor to Radio Corporation of America. Volume control system. 2,160,788; May 30.
Riffolt, Nils A. M. (See Thompson, L. T. E., and Riffolt.)
Rikof, Olof N., Broxbourne, Herts, England. Tool holder. 2,160,369; May 30.
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Container. 2,160,488; May 30.
Ritter, Saul, Far Rockaway, N. Y., assignor, by mesne assignments, to The Hadley Company, Inc., Providence, R. I. Bracelet connector. 2,160,316; May 30.
Roberts, Henry T., assignor to J. P. Seeburg Corporation, Chicago, Ill. Radio cabinet. 2,160,283; May 30.
Roberts, Henry T., assignor to J. P. Seeburg Corporation, Chicago, Ill. Radio cabinet. 2,160,284; May 30.
Robertson, Robert R., Chicago, assignor to The Translode Joint Company, Chicago Heights, Ill. Road guard fence. 2,160,519; May 30.
Robertson, Robert R., Chicago, assignor to The Translode Joint Company, Chicago Heights, Ill. Road guard fence. 2,160,520; May 30.
Robertson, William J., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glass edging machine. 2,160,085; May 30.
Roda, Richard F., Pittsford, assignor to Taylor Instrument Companies, Rochester, N. Y. Manometer unit for a sphygmomanometer. 2,160,407; May 30.
Rodrigues, Octavius V., Fairfield, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Razor. 2,160,370; May 30.
Rochri, Bruno C., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghampton, N. Y. Film spool and holder. 2,160,710; May 30.
Roesch, Frank P., Chicago, Ill., assignor to The Standard Stoker Company, Incorporated. Valve manifold. 2,160,563; May 30.
Roggenstein, Edwin, Ilion, assignor to Remington Rand Inc., Buffalo, N. Y. Card punch. 2,160,171; May 30.
Röhm & Haas Company. (See Bauer, W., and Lauth, assignors.)
Röhm & Haas Company. (See Covert, Lloyd W., assignor.)
Romanoff, Hippolyte W., New York, N. Y. Reinforced corrugated sheet. 2,160,677; May 30.
Ronci, Victor L., Brooklyn, and J. W. West, Woodside, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,160,086; May 30.
Roscoe, Edwin S., and F. W. Ackerman, assignors to Yawman & Erbe Mfg. Co., Rochester, N. Y. Paper fastener. 2,160,564; May 30.
Rosen, Raphael, Elizabeth, and R. M. Thomas, Union, N. J., assignors to Standard Oil Development Company. Polymer composition. 2,160,172; May 30.
Rosenberg, Heyman, New York, N. Y. Method and machine for making capped nut blanks. 2,160,087; May 30.
Rosin, Edwin A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mounting glass sheets upon work tables. 2,160,033; May 30.
Ross, George A., Norwood, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Field standard. 2,160,754; May 30.
Ross, John, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Sulphuric acid derivatives of polyisobutylene. 2,160,343; May 30.
Rothstein, Dorothy, New York, N. Y. Garment. 2,160,521; May 30.
Routh, Almond C., Sandusky, Ohio. Material packaging. 2,160,285; May 30.
Ruby, Norman, Stratford, Ontario, Canada. Humidifier. 2,160,678; May 30.
Ruen, Henry C., assignor, by mesne assignments, to Star-Service Hanger Company, Detroit, Mich. Garment hanger. 2,160,173; May 30.
Ruhrchemie Aktiengesellschaft. (See Martin, F., Tramm, and Jung, assignors.)
Runge, Wilhelm, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Band pass filter. 2,160,088; May 30.
Rupert, Duane F., Gloversville, N. Y. Muff for wind instruments. 2,160,229; May 30.
Ruska, Ernst. (See Möller, R., and Ruska.)
Russell Electric Company. (See Ballentine, Earle W.)
Ruthruff, Robert F., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Conversion of hydrocarbon oils into gasoline. 2,160,286; May 30.
Ruthruff, Robert F., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Conversion of gaseous hydrocarbons to liquid. 2,160,287; May 30.
Ruthruff, Robert F., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Conversion of hydrocarbons. 2,160,288; May 30.
Ryan, Thomas, Joliet, Ill., assignor to Poor & Company, New York, N. Y. Tie plate and rail clip combination. 2,160,344; May 30.
Rylander, Parrish H., San Antonio, Tex. Cotton conditioner. 2,160,253; May 30.
Saborsky, Arthur D., Rossford, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Glass wool packing. 2,160,001; May 30.
Safety Equipment Service Company, The. (See Renneberg, Edgar, assignor.)
Safford, Moyer M., Schenectady, N. Y., assignor to General Electric Company. Resinous composition and preparing same. 2,160,230; May 30.
Sageber, Richard G., Wilmington, Del. Comparometer. 2,160,603; May 30.
Saget, Jean G. Y. (See Piou de Saint-Gilles, G. O. F., and Saget.)
Sagner, Walter T., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Business machine stand. 2,160,289; May 30.
Sandberg, Ray A., Waukegan, Ill., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Friction brake lever. 2,160,679; May 30.
Sandberg, Ray A., Waukegan, Ill., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Manufacturing receiver tanks. 2,160,680; May 30.
Sandblom, Gideon E., Farjenas, near Gothenburg, Sweden. Internal combustion engine. 2,160,755; May 30.
Sandin, Jerome, Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,160,681; May 30.
Savio, Michele, Turin, Italy. Fluid pressure cylinder. 2,160,565; May 30.
Sawyer, Marion B. (See Ness, W. H. C., and Sawyer.)
Scalera, Louis, Newark, N. J. Bedstead coupling connection. 2,160,174; May 30.
Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Ring binder pencil clip. 2,160,392; May 30.
Schadell, Clemence M. Ridgewood, N. J. Bed covering support. 2,160,443; May 30.
Schaefer, Gerhart, Konigsberg, Germany. Umbrella frame. 2,160,231; May 30.
Schaefer, Harold F., Alton, assignor to Western Cartridge Company, East Alton, Ill. Explosive. 2,160,626; May 30.
Schairer, George S., assignor to Bendix Products Corporation, South Bend, Ind. Airplane. 2,160,089; May 30.
Schering Aktiengesellschaft. (See Butenandt, Adolf, assignor.)

Schering Aktiengesellschaft. (See Dohrn, M., and Diedrich, assignors.)
Schleferstein, Georg H., Berlin-Charlottenburg, Germany. Ramming machine. 2,160,462; May 30.
Schilling, Heinrich. (See Baumann, P., Krapp, Schilling, and Stadler.)
Schlaeger, Julian R., Chicago Heights, Ill., assignor to Victor Chemical Works. Heat-treated monocalcium phosphate. 2,160,232; May 30.
Schlaeger, Julian R., Chicago Heights, Ill., assignor to Victor Chemical Works. Baking powder. 2,160,233; May 30.
Schlafhorst, W., & Co. (See Fürst, Stefan, assignor.)
Schlumpf, Robert W., assignor to Hughes Tool Company, Houston, Tex. Wear resisting alloy. 2,160,290; May 30.
Schmidt, Francis M., North Tonawanda, N. Y., assignor, by mesne assignments, to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Side band suppressed tuning for radio receiving systems. 2,160,566; May 30.
Schmidt, Willi, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of aliphatic amines. 2,160,578; May 30.
Schmiedel, William F., assignor to Deltox Rug Company, Oshkosh, Wis. Tufting attachment for sewing machines. 2,160,090; May 30.
Schmiedel, William F., assignor to Deltox Rug Company, Oshkosh, Wis. Tufting attachment for sewing machines. 2,160,094; May 30.
Schmitt, George P., assignor to Platinum Products Corp., New York, N. Y. Lighter. 2,160,002; May 30.
Schnabel, Ernst, Berlin-Lichterfelde, Germany, assignor to Resistoflex Corporation, New York, N. Y. Applying coatings to hollow bodies. 2,160,371; May 30.
Schneider & Cie. (See Fieux, Jean, assignor.)
Scholz, Caesar. (See Miescher, K., and Scholz.)
Schreck, Edwin J., assignor to Badger Glove & Mitten Co., Milwaukee, Wis. Slipper. 2,160,756; May 30.
Schubert, Julius, Sunnyside, N. Y. Connecting rod assembly for radial engines. 2,160,444; May 30.
Schuloff, Saul, Baltimore, Md. Valve diaphragm. 2,160,757; May 30.
Schunack, Johannes, Berlin-Charlottenburg, assignor to the firm of Fernsech Aktiengesellschaft, Zahlendorf, near Berlin, Germany. Producing rectangular shaped synchronizing impulses. 2,160,522; May 30.
Schurman, John, Highland Park, Mich., assignor to Albert Kahn, Inc. Expansion joint. 2,160,758; May 30.
Schuylkill Hosiery Mills, Inc. (See Fenstermacher, Clayton A., assignor.)
Schwartz, Nathan, New York, N. Y. Respirator. 2,160,317; May 30.
Schweizer, Alfred, Stuttgart, Germany, assignor to Robert Bosch Geselschaft mit beschränkter Haftung. Speed governor for injection internal combustion engines. 2,160,109; May 30.
Schwinn, Frank W., Chicago, Ill. Bicycle spring fork mechanism. 2,160,034; May 30.
Schwinn, Frank W., Chicago, Ill. Bicycle front fork structure. 2,160,035; May 30.
Scott, Clarence N., Houston, Tex. Well pumping apparatus. 2,160,291; May 30.
Scott, Merl G., Tulsa, Okla. Packing means. 2,160,292; May 30.
Scovill Manufacturing Company. (See Huelster, O. J., and Wolff, assignors.)
Scovill Manufacturing Company. (See Veillette, Jeffery J., assignor.)
Scribner, William L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Double row roller bearing. 2,160,420; May 30.
Scurlock, Lewis H., Chicago, Ill. Juice extractor. 2,160,523; May 30.
Sebo, Julius K., Staten Island, assignor to American Plush & Velvet Pressboard Co. Inc., New York, N. Y. Iron. 2,160,421; May 30.
Security Engineering Co. (See Hammer, Otto, assignor.)
Security Engineering Co. Inc. (See Hall, E. B., and Armentrout, assignors.)
Seeburg, J. P., Corporation. (See Roberts, Henry T., assignor.)
Seeburg Radio Corporation. (See Kenney, Mahlon W., assignor.)
Severinghaus, Nelson, Lithonia, assignor to Consolidated Quarries Corporation, Atlanta, Ga. Dump body for trucks. 2,160,789; May 30.
Seybold, Frederick W., Westfield, assignor to American Type Founders Incorporated, Elizabeth, N. J. Composing room saw. 2,160,110; May 30.
Shakespeare Company. (See Shakespeare, William, Jr., assignor.)
Shakespeare Products Company. (See Weber, Herman, assignor.)
Shakespeare, William, Jr., assignor to Shakespeare Company, Kalamazoo, Mich. Level wind fishing reel. 2,160,175; May 30.
Shapiro, Abraham, Chicago, Ill. Making liquors. 2,160,036; May 30.
Shell Development Company. (See Eichwald, Egon, assignor.)
Shell Development Company. (See Greensfelder, B. S., and Spaght, assignors.)
Shell Development Company. (See Pustmueller, Paul S., assignor.)
Shell Development Company. (See Tijmstra, Sijbren, assignor.)
Shell Development Company. (See van Dijck, Willem J. D., assignor.)
Shell Development Company. (See Yabroff, D. L., and White, assignors.)
Shepard, Francis H., Jr., Rutherford, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Photoelectric relay. 2,160,037; May 30.
Sherwood, Clinton L. (See Pearson, C. O., and Sherwood.)
Shindel, Harry F., assignor to Willson Products, Inc., Reading, Pa. Ophthalmic mounting. 2,160,627; May 30.
Shipman, Frank S., assignor of one-half to R. Henry, Rock Island, Ill. Battery connector. 2,160,422; May 30.
Shipp, Joseph H. (See Maxwell, R. W., and Shipp.)
Shipp, Joseph H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of textile materials. 2,160,176; May 30.
Shoemaker, Bernard H. (See Loane, C. M., and Shoemaker.)
Shoemaker, Bernard H., and C. M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,160,293; May 30.
Shuman, Royal L., Newark, N. J., assignor to Celluloid Corporation. Apparatus for carrying out chemical reactions. 2,160,177; May 30.
Silber, David, Tompkinsville, Staten Island, N. Y. Combination coat and hood for rain wear. 2,160,682; May 30.
Simplon Products Corporation. (See Marsh, Reginald E., assignor.)
Simpson, Emory G., assignor to General Motors Corporation, Detroit, Mich. Rear quarter window and regulator. 2,160,038; May 30.
Simpson, John M., and S. O. White, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Transmission synchronizer. 2,160,091; May 30.
Sinden, Alfred D., Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass. Conveyer. 2,160,234; May 30.
Singer, John M., assignor to The Cleveland Welding Company, Cleveland, Ohio. Making bicycle forks. 2,160,039; May 30.
Singer Manufacturing Company, The. (See De Voe Albert H., assignor.)
Sitzler, Richard R., and L. C. Holt, Cumberland, Md., assignors to Celanese Corporation of America. Yarn and fabric and making same. 2,160,178; May 30.
Sivian, Leon J. (See Bedell, E. H., and Sivian.)
Slayter, Games, Newark, and J. S. Irvine, Toledo, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation. Air filter. 2,160,003; May 30.
Sloman, Cheri M., and R. A. Merrill, Detroit, Mich., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Resilient mounting. 2,160,040; May 30.
Slusar, Frank M., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Packaged article. 2,160,235; May 30.
Smalley, Lee L., assignor to Bendix Products Corporation, South Bend, Ind. Brake tester. 2,160,092; May 30.
Smidth, F. L., & Co. (See Pontoppidan, Carl, assignor.)
Smith, Fred W., Adams, Mass. Windshield support. 2,160,795; May 30.
Smith, James T., assignor to Mills Novelty Company, Chicago, Ill. Refrigerating apparatus for vending machines and the like. 2,160,760; May 30.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,160,254; May 30.
Smith, Sidney B., Chelmsford, England, assignor to Radio Corporation of America. Direction finding aerial system. 2,160,093; May 30.
Smith, William G. (See Bumpas, O. V., and Smith.)
Smith, William P., London, England. Compositions for fluid transmission of power. 2,160,095; May 30.
Soby, Archer M. (See Kelley, George W., Jr., assignor.)
Société Anonyme d'Escaut & Meuse. (See Landrieu, Max, assignor.)
Société d'Inventions Aeronautiques et Mecaniques S. I. A. M. (See Lévy, René L., assignor.)
Societe Generale des Carburateurs Zenith. (See Gistucci, P. X. A., and Lichenstein, assignors.)
Society of Chemical Industry in Basle. (See Mischer, K., and Scholz, assignors.)
Socony-Vacuum Oil Company. (See McCarty, Malcolm D., assignor.)
Socony-Vacuum Oil Company. (See Minton, John P., assignor.)
Sooter, Ray E., Coldwater, Kans. Barrel truck. 2,160,041; May 30.
Soref, Harry E., assignor to Master Lock Company, Milwaukee, Wis. Padlock. 2,160,294; May 30.
Spadaro, Joseph, Bronx, N. Y. Dredging machine. 2,160,761; May 30.
Spaeth, Charles, Cleveland, Ohio. Storage and dispensing system. 2,160,683; May 30.
Spaeth, Charles, Cleveland, Ohio. Flame arrester. 2,160,684; May 30.

Spaeth, Charles, Cleveland, Ohio. Float gauge cover. 2,160,685; May 30.
Spaght, Monroe E. (See Greensfelder, B. S., and Spaght.)
Spatta, George. (See Gettig, J. H., and Spatta.)
Spatta, George, assignor to Clark Equipment Company, Buchanan, Mich. Rolling banjo type axle housings. 2,160,179; May 30.
Speedbrik Corporation. (See Cantwell, John J., assignor.)
Spence, John R. (See Stoody, W. F., and Spence.)
Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Transmitter tape control device. 2,160,463; May 30.
Sperry Gyroscope Company. (See Bates, Mortimer F., assignor.)
Sperry Gyroscope Company. (See Frische, Carl A., assignor.)
Sperry Products, Inc. (See Drake, Harcourt C., assignor.)
Spicer, Clarence W., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Axle drive for generators. 2,160,445; May 30.
Spicer Manufacturing Corporation. (See Spicer, Clarence W., assignor.)
Spies, Andrew, Bayside, N. Y. Spreader for building concrete walls. 2,160,489; May 30.
Splaine, Edward M., and T. C. Jarrett, assignors to American Optical Company, Southbridge, Mass. Connecting means and making same. 2,160,686; May 30.
Spray, Cranston. (See Palmer, Frank D., assignor.)
Stackpole Carbon Company, The. (See Hathorn, Clarence J., assignor.)
Stadler, Robert. (See Baumann, P., Krapp, Schilling, and Stadler.)
Staerk, Hermann. (See Voss, A., and Staerk.)
Staffel, Wilhelm. (See Arndt, F., Rausch, and Staffel.)
Stager, Henry G. (See Masters, O. M., and Stager.)
Stalfort, John A., Baltimore, Md. Apparatus for raising roofs. 2,160,446; May 30.
Stamm, Frederick C., Lockport, N. Y. Device for indicating the presence of noncondensable gases in steam systems. 2,160,004; May 30.
Stamper, F. M., Company. (See Stamper, Howard H., assignor.)
Stamper, Howard H., assignor to F. M. Stamper Company. Moberly, Mo. Preserving eggs. 2,160,604; May 30.
Standard-I. G. Company. (See Frolich, Per K., assignor.)
Standard Lime and Stone Company. (See Nicholas, Isaac A., assoignor.)
Standard Oil Company. (See Loane, C. M., and Shoemaker, assignors.)
Standard Oil Company. (See Ruthruff, Robert F., assignor.)
Standard Oil Company. (See Shoemaker, B. H., and Loane, assignors.)
Standard Oil Company (Indiana). (See Voorhees, Vanderveer, assignor.)
Standard Oil Development Company. (See Ellis, Carleton, assignor.)
Standard Oil Development Company. (See Gaylor, Peter J., assignor.)
Standard Oil Development Company. (See Morway, A. J., and Zimmer, assignors.)
Standard Oil Development Company. (See Nichols, H. J., Jr., and Mateer, assignors.)
Standard Oil Development Company. (See Rosen, R., and Thomas, assignors.)
Standard Stoker Company, The. (See Roesch, Frank P., assignor.)
Stärk, Hermann, Bad Soden, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Fuel-resisting material. 2,160,372; May 30.
Star-Service Hanger Company. (See Coney, James D., Star-Service Hanger Company. (See Ruen, Henry C., assignor.)
Stator Corporation. (See Weaver, Eastman A., assignor.)
Steffensen, Percy L., Cornwall, Pa., assignor to Bethlehem Steel Company. Magnetic separator. 2,160,628; May 30.
Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Expulsion fuse. 2,160,464; May 30.
Stenberg, Knut E. B., assignor to Associated Attleboro Manufacturers, Attleboro, Mass. Combination integral transparent member and escutcheon frame. 2,160,762; May 30.
Sterne, Willard F., assignor to American Allsafe Company, Inc., Buffalo, N. Y. Sweat band. 2,160,567; May 30.
Stewart Bros., Inc., of Lynn. (See Bailey, Charles W., assignor.)
Stewart, Ralph T., Winston-Salem, assignor to Radiator Specialty Company, Charlotte, N. C. Lubrication apparatus. 2,160,295; May 30.
Stickles, Robert. (See Hedges, E. G., and Stickles.)
Stokes and Smith Company. (See Maxfield, Daniel E., assignor.)
Stone, Albert F., Summit, N. J. Match package. 2,160,180; May 30.
Stone, Ernest V., Los Alamitos, Calif. Over speed engine control. 2,160,318; May 30.
Stone, Irwin. (See Gray, P. P., and Stone.)
Stoody Company. (See Stoody, W. F., and Spence, assignor.)
Stoody, Winston F., Wilmington, and J. R. Spence, assignors to Stoody Company, Whittier, Calif. Alloy. 2,160,423; May 30.
Strain, Daniel E. (See Barrett, H. J., and Strain.)
Strong Electric Corporation, The. (See Strong, Herry H., assignor.)
Strong, Harry H., assignor to The Strong Electric Corporation, Toledo, Ohio. Electrode feeding means. 2,160,490; May 30.
Struve, Frederick E., Philadelphia, Pa. Ornamental heel reinforcement for hosiery. 2,160,373; May 30.
Stubbs, Albert, Knutsford, England, assignor to General Electric Company. Plural motor control system. 2,160,687; May 30.
Sturtevant, B. F., Company. (See Palmer, Robert T., assignor.)
Submarine Signal Company. (See Turner, Edwin E., Jr., assignor.)
Sniter, William L. (See Hartmann, J., and Campbell, assignors.)
Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 2,160,605; May 30.
Sullivan Machinery Company. (See Galambos, Louis A., Jr., assignor.)
Sulzer Frères, Société Anonyme. (See Moessinger, Albert, assignor.)
Sun Oil Company. (See Pearson, John M., assignor.)
Sun Rubber Company, The. (See Hugus, F. S., and Lower, assignors.)
Sundstrand, Oscar J., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Algebraic totalizer. 2,160,296; May 30.
Sutherland, Andrew E., Madrid, Iowa. Track leveling device for farm tractors. 2,160,524; May 30.
Swan, Elsie, Los Angeles, Calif. Garment. 2,160,096; May 30.
Swanson, Raymond E., assignor to A. D. Cook, Inc., Lawrenceburg, Ind. Well strainer and making it. 2,160,790; May 30.
Swartz, George A., Hillsdale Manor, N. J. Egg grading and packing machine. 2,160,319; May 30.
Swenson, Gustave A., Champaign, Ill. Stone working tool. 2,160,568; May 30.
Swindell Dressler Corporation. (See Dressler, Philip d'H., assignor.)
Syak, Andrew I., Girard, Ohio. Structural steel element. 2,160,345; May 30.
Symington-Gould Corporation, The. (See Madison, John O., assignor.)
Talon, Inc. (See Kannor, Henry L., assignor.)
Tappan, Chester, assignor to General Talking Pictures Corporation, New York, N. Y. Electrical change-over. 8,160,005; May 30.
Taub, Joel. (See Lundstedt, E., and Taub.)
Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Controlling a physical condition. 2,160,042; May 30.
Taylor, Elmer H., assignor to The Chase-Shawmut Company, Newburyport, Mass. Circuit breaker. 2,160,236; May 30.
Taylor, Elmer H., assignor to The Chase-Shawmut Company, Newburyport, Mass. Electric switch and tripping Mechanism therefor. 2,160,424; May 30.
Taylor, Frank W., Birmingham, assignor to H. C. Webb & Co. Ltd., Witton, Birmingham, England. Cycle and like brake. 2,160,181; May 30.
Taylor, George N., East Providence, and J. MacA. Ewart, Oakland Beach, R. I., assignors to Universal Winding Company, Boston, Mass. Tension device for winding and like machines. 2,160,763; May 30.
Taylor Instrument Companies. (See Hurlburt, Edward N., assignor.)
Taylor Instrument Companies. (See Roda, Richard F., assignor.)
Taylor, Thomas E., assignor to The Cleveland Cooperative Stove Company, Cleveland, Ohio. Oven for domestic ranges. 2,160,764; May 30.
Taylor, Thomas E., assignor to The Cleveland Cooperative Stove Company, Cleveland, Ohio. Top-front panel structure for ranges. 2,160,765; May 30.
Teal, Gordon K., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,160,796; May 30.
Teal, Gordon K., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,160,797; May 30.
Teal, Gordon K., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,160,798; May 30.
Teal, Gordon K., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,160,799; May 30.
Teare, William H., and O. W. Livingston, Schenectady, N. Y., assignor to General Electric Company. Electric valve circuit. 2,160,688; May 30.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Fritz, Karl, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kreienfeld, Friedrich, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Runge, Wilhelm, assignor.)
Thermo-Plastics, Inc. (See Reid, James S., assignor.)

Thomas, Albert G., Lynchburg, Va. Viscosity analyzer. 2,160,606; May 30.
Thomas & Betts Co., The. (See Buchanan, Stephen N., assignor.)
Thomas, H. Earl, et al. (See Timberlake, Journey F., assignor.)
Thomas, Percy E., et al. (See Timberlake, Journey F., assignor.)
Thomas, Robert M. (See Rosen, R., and Thomas.)
Thomason, Mavin A., Lake Charles, La. Automatic pressure controlled gate valve. 2,160,766; May 30.
Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Can handling apparatus. 2,160,237; May 30.
Thompson, Arden A., Taunton, assignor of one-half to L. McElwee, Boston, Mass. Target. 2,160,425; May 30.
Thompson, Friar M., Jr., assignor to Hercules Powder Company, Wilmington, Del. Insecticide. 2,160,579; May 30.
Thompson, Louis T. E., and N. A. M. Riffolt, Dahlgren, Va. Time recording device. 2,160,006; May 30.
Thompson, Russell G., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,160,297; May 30.
Thornton, Samuel E., Coeur d'Alene, Idaho. Lumber ripping saw. 2,160,525; May 30.
Threm, William B., Toledo, Ohio. Fluid charging of foods and beverages. 2,160,043; May 30.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle lock. 2,160,629; May 30.
Tijmstra, Sijbren, Berkeley, assignor to Shell Development Company, San Francisco, Calif. Cracking hydrocarbon oil. 2,160,580; May 30.
Timberlake, Journey F., Charlottesville, assignor of twelve and one-half percent to R. L. Wright, Richmond, twelve and one-half percent to H. N. Goodwin, one and one-half percent to H. E. Thomas, and one and one-half percent to P. E. Thomas, all of Charlottesville, Va. Shuttle motion for looms. 2,160,111; May 30.
Timken Roller Bearing Company, The. (See Horger, Oscar J., assignor.)
Timken Roller Bearing Company, The. (See Maag, Oscar L., assignor.)
Timken Roller Bearing Company, The. (See Scribner, William L., assignor.)
Tollison, Paul L., North Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web-splicing method. 2,160,526; May 30.
Tornberg, Isidor, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Printing press. 2,160,527; May 30.
Tramm, Heinrich. (See Martin, F., Tramm, and Jung.)
Translode Joint Company, The. (See Robertson, Robert R., assignor.)
Trans-Lux Corporation. (See Newman, David F., assignor.)
Trefts, George M., 3rd, East Aurora, N. Y. Pressure vessel of the boiler type and producing same. 2,160,393; May 30.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Tungsten Electrodeposit Corporation. (See Armstrong, H. H. and Menefee, assignors.)
Turin, David. (See Zeligman, R., and Turin.)
Turner, C. E., Incorporated. (See Turner, Clarence E., assignor.)
Turner, Clarence E., assignor to C. E. Turner, Incorporated, Washington, D. C. Corrective footwear. 2,160,238; May 30.
Turner, Edwin E., Jr., West Roxbury, assignor to Submarine Signal Company, Boston, Mass. Magnetostrictive vibrator. 2,160,007; May 30.
Turner, George F. (See Harper, P. S., and Turner.)
Turney, Harry L., assignor to Patents & Royalties Corporation, Los Angeles, Calif. Power drive. 2,160,447; May 30.
Underwood Elliott Fisher Company. (See Griswold, William B., assignor.)
Underwood Elliott Fischer Company. (See Helmond, William F., assignor.)
Underwood Elliott Fisher Company. (See Neidich, Samuel A., assignor.)
Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)
Underwood Elliott Fisher Company. (See Sagner, Walter T., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)
Underwood Elliott Fisher Company. (See Thompson, Russell G., assignor.)
Union Carbide and Carbon Corporation. (See Nicolson, James G., assignor.)
Union Oil Company of California. (See Aldridge, B. G., and Ragatz, assignors.)
Union Switch & Signal Company, The. (See Allison, Leslie R., assignor.)
Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)
Union Switch & Signal Company, The. (See Devol, Lee, assignor.)
Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)
United Aircraft Corporation. (See Martin, Erle, assignor.)
United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)
United Shoe Machinery Corporation. (See Knott, Clyde L., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United States Gypsum Company. (See Balduf, Bruno E., assignor.)
United States Gypsum Company. (See Reade, Ralph W. B., assignor.)
U. S. Manufacturing Corporation. (See Platt, Stephen A., assignor.)
United States Metallic Packing Company, The. (See Price, Joseph W., Jr., assignor.)
United States Rubber Company. (See Francis, Raymond S., assignor.)
United States Rubber Company. (See Gibbons, Willis A., assignor.)
United States Rubber Company. (See Meuser, L., and Dewey, assignors.)
United States Rubber Company. (See Sloman, C. M., and Merrill, assignors.)
Universal Cooler Corporation. (See Higham, William W., assignor.)
Universal Winding Company. (See Taylor, G. N., and Ewart, assignors.)
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Phase modulation. 2,160,465; May 30.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Oscillation generator and frequency modulator. 2,160,466; May 30.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Phase or frequency modulated transmitter. 2,160,528; May 30.
Valentine, Grace, Shoshone, Idaho. Curl clip. 2,160,346; May 30.
Van Buren, John, Brooklyn, N. Y. Method of and machine for sealing boxes or cartons. 2,160,008; May 30.
Van Dijck, Willem J. D., The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Extraction process. 2,160,607; May 30.
Vanity Corset Co. (See Mayer, Milton, assignor.)
Van Sickle, Roswell C., Wilkinsburg, and J. M. Cumming, Monroeville, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,160,630; May 30.
Van Urk, Arend T., and R. Vermeulen, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Device for reproducing sound. 2,160,112; May 30.
Van Vulpen, John, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Support for radiating pipes. 2,160,689; May 30.
Vapor Car Heating Company. (See Van Vulpen, John, assignor.)
Veillette, Jeffery J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-piercing stud assembly. 2,160,374; May 30.
Venner, Clarence H. (See Herzig, Leonard A., assignor.)
Vermeulen, Roelof. (See van Urk, A. T., and Vermeulen.)
Victor Chemical Works. (See Knox, William H., Jr., assignor.)
Victor Chemical Works. (See Schlaeger, Julian R., assignor.)
Von Giesche's, Georg, Erben. (See Burkhardt, A., and Knabe, assignors.)
Von Heidenstam, Erik J., Stockholm, Sweden. Structural system. 2,160,791; May 30.
Voorhees, Vanderveer, Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill. Converting hydrocarbons. 2,160,239; May 30.
Voss, Arthur, Frankfort-on-the-Main, and H. Staerk, Bad Soden in Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Water-repellent textile material and manufacturing it. 2,160,375; May 30.
Vrooman, William S., Pontiac, Mich., assignor to The Paine & Williams Company, Cleveland, Ohio. Apparatus for making rubber floor coverings. 2,160,182; May 30.
Vulcan Corporation. (See Eldridge, Everett, assignor.)
Wadsworth, Frank L. O., deceased, Pittsburgh, Pa.; M. M. Wadsworth, administratrix. Apparatus for rolling sheet metal. 2,160,767; May 30.
Wadsworth, Mildred M., administratrix. (See Wadsworth, Frank L. O.)
Walker, David C., Long Beach, assignor to Baash-Ross Tool Company, Los Angeles, Calif. Bailer. 2,160,320; May 30.
Walker, John E., Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Pipe covering. 2,160,009; May 30.
Wallace, Alfred J. K., Astoria, Oreg. Gear shift lever ash receiver. 2,160,348; May 30.
Wallace, Archibald L., Northport, and R. Berkowitz, Woodmere, N. Y., assignors to Metal Hose & Tubing Co., Inc. Hose guard. 2,160,240; May 30.
Wallace, Daniel H., Jr. (See Griffin, W. S., Jr., Harris, and Wallace.)
Waller, Joseph B., Baltimore, Md. Match holder. 2,160,255; May 30.
Wallerstein Company. (See Gray, P. P., and Stone, assignors.)

Walsh, Carroll H. (See Pittman, R. R., and Walsh.)
Walsh, Michael E., Chicago, Ill. Detachable weed guard for fishhooks. 2,160,347; May 30.
Walther, Wilhelm, Stuttgart, and W. Hirsch, Feilbach, near Stuttgart, Germany, assignors to Robert Bosch Gesellschaft mit beschränkter Haftung. Ignition apparatus. 2,160,241; May 30.
Ward, Edgar T., Chicago, Ill. Propeller. 2,160,467; May 30.
Ward, Oral J., Colorado Springs, Colo. Clasp. 2,160,569; May 30.
Warren, Geoffrey W., Wembley, assignor to M-O Valve Company, Limited, London, England. Electrode spacer. 2,160,044; May 30.
Wasser, Harry N., assignor to Ellwood Safety Appliance Company, Ellwood City, Pa. Foot guard. 2,160,768; May 30.
Watson Company, The. (See Richards, Edith C., assignor.)
Watson, Edgar E., assignor to The Metalectric Corporation, Waterloo, Iowa. Independent wheel suspension for vehicles. 2,160,608; May 30.
Wayne Pump Company, The. (See Jauch, R. J., Polhamus, and Arnold, assignors.)
Weathers, Paul, Audubon, N. J., assignor to Radio Corporation of America. Variable gain signal amplifying system. 2,160,097; May 30.
Weaver, Eastman A., Winchester, Mass., assignor, by mesne assignments, to Stator Corporation. Purger assembly. 2,160,394; May 30.
Webb, H. C., & Co. Ltd. (See Taylor, Frank W., assignor.)
Webb, Kevin W. C., Coonoor, Nilgris, assignor of one-half to R. L. B. Gall, Cootacamund, Nilgiris, South India. Photomechanical printing surface. 2,160,242; May 30.
Webb, Samuel F., Holtville, Calif. Ground working machine. 2,160,243; May 30.
Weber, Herman, assignor to Shakespeare Products Company, Kalamazoo, Mich. Making fasteners. 2,160,298; May 30.
Webster Electric Company. (See Dally, Roy, assignor.)
Wehrli, Walter, assignor to the firm of Chemical Works formerly Sandoz, Basel, Switzerland. Metal azo dyestuffs and their manufacture. 2,160,448; May 30.
Weichardt, Rudolf, and W. Freistadt, Bremen, and J. Hicke, Altona-Rissen, assignors to Krafft & Weichardt, Bremen, Germany. Apparatus for the starting and landing of aircraft. 2,160,449; May 30.
Weisberger, David, Scranton, Pa. Renovator for neckties. 2,160,769; May 30.
Weller, Frank F., assignor of one-half to J. O. Modisette, Jennings, La. Automobile jack. 2,160,770; May 30.
Welt, David, Bronx, N. Y. Shielded roll stippler. 2,160,570; May 30.
Weltmer, Tracy C., assignor, by mesne assignments, to Interstate Bakeries Corporation, Kansas City, Mo. Packaging. 2,160,183; May 30.
Werkspoor N. V. (See Bonath, Richard, assignor.)
Wertzheiser, Joseph, assignor of eighty-five per cent to L. A. Bauman, Brooklyn, N. Y. Toaster. 2,160,771; May 30.
West, Frank R., Detroit, Mich. Refrigerating unit. 2,160,045; May 30.
West, George H. B., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Specific gravity indicator. 2,160,772; May 30.
West, John W. (See Ronci, V. L., and West.)
West, Maxwell A., assignor to West Screw Corporation, Portland, Oreg. Screw driver. 2,160,244; May 30.
West Screw Corporation. (See West, Maxwell A., assignor.)
Western Cartridge Company. (See Schaefer, Harold F., assignor.)
Western Electric Company. (See Brandt, Walter, assignor.)
Western Union Telegraph Company, The. (See Haglund, H. H., and Foster, assignors.)
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company, The. (See Canetta, John, assignor.)
Westinghouse Air Brake Company, The. (See Canetta, J., and Grosswege, assignors.)
Westinghouse Air Brake Company, The. (See Fitch, Ellery R., assignor.)
Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See McNeal, Donald L., assignor.)
Westinghouse Air Brake Company, The. (See Nash, Richard L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Jerome, assignor.)
Westinghouse Electric & Manufacturing Company. (See Van Sickle, R. C., and Cumming, assignors.)
Westrope, Fred J. (See Graebner, O. F., and Westrope.)
Wettlaufer, William L., Buffalo, N. Y. Device for removing the heads of golf clubs. 2,160,395; May 30.
Wheelbarger, Albert S., and W. G. Orth, Dayton, assignors, by mesne assignments, to Central National Bank of Cleveland, Cleveland, Ohio. Register. 2,160,046; May 30.
White, Charles B., et al., trustees. (See Williamson, Henry C., assignor.)
White, Ellis R. (See Yabroff, D. L., and White.)
White, Samuel O. (See Simpson, J. M., and White.)
Whitehall Patents Corporation. (See Marinsky, D., and Morin, assignors.)
Whittemore, George S., Somersworth, N. H. Spinning, twisting, and analogous machines. 2,160,010; May 30.
Wiggins, Eugene I., Flint, Mich. Radio antenna for automobiles. 2,160,047; May 30.
Wiley, Allen D., and W. H. Franzmann, assignors to The American Rolling Mill Company, Middletown, Ohio. Universal welding head. 2,160,048; May 30.
Wilhelm, Theodor, Zurich, Switzerland. Cooling plant. 2,160,184; May 30.
Willauer, Charles H., Quakertown, Pa. Electrically heated brooder. 2,160,185; May 30.
Wille, Albert. (See Jaeger, G., and Wille.)
Williams, Benjamin H., Des Moines, Iowa. Drafting mechanism. 2,160,186; May 30.
Williams, Gurdon H., Collingswood, N. J., assignor to Radio Corporation of America. Fluid cooled elements for radio circuit. 2,160,098; May 30.
Williamson, Henry C., Chicago, Ill., assignor to C. B. White, New York, N. Y., and F. G. Hoblitzell, Toronto, Ontario, Canada, jointly as trustees. Refrigerating device. 2,160,629; May 30.
Willson, Frederick E., Santa Barbara, Calif. Apparatus for getting superelevations for curves of various radii and speeds for highways and railroads. 2,160,049; May 30.
Willson Products, Inc. (See Shindel, Harry F., assignor.)
Wine, William E., Toledo, Ohio. Railway car. 2,160,450; May 30.
Winkler, Joseph F., Philadelphia, Pa. Air and combustion products recovery system and apparatus therefor. 2,160,187; May 30.
Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for synchronizing synchronous machines. 2,160,690; May 30.
Winthrop Chemical Company. (See Pfeiffer, Gustav, assignor.)
Witt, Rudolf. (See Hass, C., Witt, and Quade.)
Witting, Albin G., Gary, Ind. Metallurgical furnace. 2,160,610; May 30.
Wolf, Morris A., Dallas, Tex. Merchandise display rack. 2,160,050; May 30.
Wolfe, Thomas L., Tallahassee, Fla. Building construction. 2,160,773; May 30.
Wolff, Jerome G. (See Huelster, O. J., and Wolff.)
Wood, Byron A., assignor of one-half to J. H. Linge, Seattle, Wash. Garment envelope applying device. 2,160,245; May 30.
Wood Newspaper Machinery Corporation. (See Tollison, Paul L., assignor.)
Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)
Wood, Orville T., assignor to Blake Manufacturing Corporation, Clinton, Mass. Flashlight switch. 2,160,529; May 30.
Woolsey, Charles A., Minneapolis, Minn. Crate 2,160,631; May 30.
Worth Company, The. (See Nampa, Sulo M., assignor.)
Wright-Guhman Company. (See Guhman, John C., assignor.)
Wright, Robert L., et al. (See Timberlake, Journey F., assignor.)
Wurlitzer, Rudolph, Company, The. (See Schmidt, Francis M., assignor.)
Yabroff, David L., Berkeley, and E. R. White, Albany, assignors to Shell Development Company, San Francisco, Calif. Removing acid components from hydrocarbon solutions. 2,160,632; May 30.
Yawman & Erbe Mfg. Co. (See Roscoe, E. S., and Ackerman, assignors.)
Young, Fred M., Racine, Wis. Device for bonding fins to tubes. 2,160,633; May 30.
Young, Leonard A., Detroit, Mich. Garment hanger. 2,160,188; May 30.
Zacharias, Erhard. (See Kellner, Gustav, assignor.)
Zalger, Louis, Lynn, Mass. Windshield wiper. 2,160,246; May 30.
Zeiss Ikon Aktiengesellschaft. (See Ploke, Martin, assignor.)
Zeligman, Rubin, and D. Turin, Brooklyn, N. Y. Self-cleaning windshield. 2,160,099; May 30.
Ziegler, Ralph B. (See Jensen, J. A., and Ziegler.)
Zimmer, John C. (See Morway, A. J., and Zimmer.)
Zinngrabe, John L., Chicago, Ill. Game. 2,160,299; May 30.
Zurcher, Ernest, Knoxville, Tenn., assignor to General Electric Company. Thermostatic switch mechanism. 2,160,634; May 30.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bore holes, Method and apparatus for continuous exploration of. J. J. Jakosky. Re. 21,102; May 30.
Communication system. W. S. Lemmon. 21,103; May 30.
Electricity by means of a fuel cell, Production of. H. H. Greger. 21,100; May 30.
Film, Production of a colored sound. B. Gaspar. 21,099; May 30.
Filter, Sheet. G. H. Seitz. 21,107; May 30.
Paper manufacturing. G. S. Carroll. 21,098; May 30.
Propeller mechanism, Variable pitch. J. R. Zipay. 21,108; Mayy 30.
Relaying system with latched receiver, Carrier. M. E. Reagan. 21,104; May 30.
Telegraphy, Picture. H. J. Round. 21,105; May 30.
Vehicle, Variable tread. L. B. Schauer. 21,106; May 30.
Welding apparatus. C. W. Hines. 21,101; May 30.

LIST OF DESIGN INVENTIONS

Apron. A. N. Spanel. 115,086; May 30.
Ash tray and saucer, Combination. M. C. Twomey. 115,058; May 30.
Bag, Shopping. M. Katz. 114,999; May 30.
Base, Trophy. W. B. Petzold. 115,004–6; May 30.
Basin, Wash. H. A. Mullett. 115,001; May 30.
Bib or similar article. M. T. Fadie. 115,065–6; May 30.
Bicycle. W. V. Smith. 115,010–11; May 30.
Book. E. N. Farkas and F. F. Farkas. 115,067; May 30.
Bottle, Hot Water. C. Tilz. 115,012; May 30.
Box, Bread. W. Garten. 115,039; May 30.
Box, Display. F. W. Matthay. 115,047; May 30.
Brooch or similar article. A. Katz. 115,043; May 30.
Brooch or similar article of jewelry. G. S. Erskine. 115,033; May 30.
Building. N. A. Owings. 115,003; May 30.
Cabinet, Beverage cooler. E. S. Wegman. 115,015; May 30.
Cabinet, Cigarette vending. L. Rose. 115,007; May 30.
Cabinet, Refrigerating display. L. F. Clerc. 114,987–9; May 30.
Canister or similar article. W. Garten. 115,040; May 30.
Cape, Fur. H. Soldinger. 115,055; May 30.
Cape or similar article, Vanity. M. T. Fadie. 115,064; May 30.
Case and locket, Combined watch. W. C. Barthman. 115,060; May 30.
Case or similar article, Cigarette. N. Edwards. 115,030; May 30.
Casing, Lubricator. D. A. Shaw. 115,053; May 30.
Chair. I. Salomon. 115,052; May 30.
Chair back. J. G. Rideout. 115,051; May 30.
Coat. L. Newman. 115,077–8; May 30.
Coat. J. A. Silverman. 115,085; May 30.
Couch. A. F. Breglia. 115,022; May 30.
Cover, Book. F. W. Brehm. 115,062; May 30.
Dish, Glass. M. A. Smith. 115,009; May 30.
Doll or similar article. H. Bay. 115,020; May 30.
Dress. P. Byrnes. 115,076; May 30.
Dress. R. Caine. 115,024–5; May 30.
Dress. L. Epstein. 115,032; May 30.
Dress. P. Fracchia. 115,034–5; May 30.
Dress. P. Fracchia. 115,089–92; May 30.
Dress. M. Galowitz. 115,037; May 30.
Dress. H. Meisler. 115,094–5; May 30.
Dress. M. Richter. 115,050; May 30.
Dress. V. Tomshinsky. 115,096; May 30.
Fabric for upholstery, Textile. E. F. Leonhardt. 115,093; May 30.
Fabric or similar article, Textile. E. P. Bixer. 115,075; May 30.
Fabric or similar article, Embroidered textile. D. Rubenberg. 115,079–81; May 30.
Fabric, Textile. J. Rubin. 115,082–4; May 30.
Float, Fishing. E. R. Griffith. 115,041; May 30.
Galvanometer. F. C. Ellis. 115,031; May 30.
Game apparatus. O. Lobl. 115,045; May 30.
Gauntlet, Kitchen. M. Gross. 114,996; May 30.
Gown, Wedding. M. J. Shapiro. 115,008; May 30.
Gun, Welding. M. L. Eckman. 115,029; May 30.
Handbag. S. Blatt. 115,073; May 30.
Handbag. M. J. Cohen and A. Wirklich. 115,063; May 30.
Handbag or similar article. E. Rosenberg. 115,071; May 30.
Handbag or similar article, Lady's. B. R. Brody. 115,023; May 30.
Hat. M. J. Marks. 115,046; May 30.
Hat or similar article. M. Blanc. 114,985; May 30.
Jar. G. Jensen. 115,068; May 30.
Jar. F. Smith. 115,054; May 30.
Label. A. M. Bourne. 115,021; May 30.
Lamp and stand for a dial telephone, Combined. W. C. Swalley and A. J. Lichtinger. 115,057; May 30.
Lamp, Electric table. D. F. Illian. 114,998; May 30.
Lighting fixture. C. E. Waltman. 115,014; May 30.
Motor, Electric. G. F. Bahr. 115,018; May 30.
Ornament or similar article, Radiator. L. Maxenberger. 115,000; May 30.
Overshoe. L. B. Fitzgerald. 114,993; May 30.
Overshoe or similar article. L. B. Fitzgerald. 114,992; May 30.
Pipe, Smoking. G. Cippico. 115,026; May 30.
Press, Tennis racket. G. J. Graham. 114,995; May 30.
Printing machine, Portable. H. W. Boetticher. 115,074; May 30.
Rack, Display. W. Bushberg. 114,986; May 30.
Rack, Knife. S. Vallon. 115,013; May 30.
Range. C. J. Kessler. 115,044; May 30.
Range. C. F. Wiley. 115,059; May 30.
Range, Cooking. E. L. Baker. 115,019; May 30.
Refrigerator. W. H. Adams. 114,984; May 30.
Rug. A. Beck. 115,087–8; May 30.
Safe, Cake. W. Garten. 115,038; May 30.
Sandal or similar article. H. S. Davis. 115,027–8; May 30.
Shoe form or similar article. W. J. De Witt. 114,990; May 30.
Signal unit or similar article, Audible. P. Nielsen. 115,002; May 30.
Soap, Cake of. E. Y. Babbitt. 115,017; May 30.
Sofa or similar article. C. Stoll. 115,056; May 30.
Spoon or other article of flatware. J. R. Price. 115,070; May 30.
Stand, Packaged seed display. E. E. Humphries. 114,997; May 30.
Stove. J. R. Morgan. 115,048; May 30.
Sungoggles. E. McGlynn. 114,994; May 30.
Sweater or similar article. H. Boepple. 115,061; May 30.
Swing. A. H. Duit. 114,991; May 30.
Tab for slide fasteners, Pull. N. J. Poux. 115,069; May 30.
Tool unit, Power-driven hand. T. L. Hedgpeth. 115,042; May 30.
Toy, Construction. W. H. Arkley. 115,016; May 30.
Trailer, Dinette. L. C. Franco. 115,036; May 30.
Vibrator. F. L. Renga. 115,049; May 30.
Watch and compass, Combined. W. R. Shillaber. 115,072; May 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF MAY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading apparatus. E. O. Hamren. 2,160,697; May 30.
Acid components from hydrocarbon solutions, Removing. D. L. Yabroff and E. R. White. 2,160,632; May 30.
Acid derivatives of polyisobutylene, Sulphuric. J. Ross. 2,160,343; May 30.
Acid, Manufacture of formic. J. F. Eversole. 2,160,064; May 30.
Acids and their salts, Production of saccharosonic. H. Ohle. 2,160,621; May 30.
Acids from sludge, Recovery of. W. E. Fisher. 2,159,984; May 30.
Advertising device. A. St. C. Perry. 2,160,561; May 30.
Aerial, Automobile. L. C. Armstrong. 2,160,192; May 30.
Aerial system, Direction finding. S. B. Smith. 2,160,093; May 30.
Aerial system, Wireless. K. H. Barbour. 2,160,053; May 30.
Air and combustion products recovery system and apparatus therefor. J. F. Winkler. 2,160,187; May 30.
Air, and the production of oxygen therefrom, and the liquefaction and separation of other gases, Production of liquid. G. Maiuri. 2,160,077; May 30.
Air conditioning device. F. J. Kurth. 2,160,549; May 30.
Air conditioning system. R. T. Palmer. 2,160,389; May 30.
Air control for furnaces. E. W. Ballentine. 2,160,408; May 30.
Air filter. G. Slayter and J. S. Irvine. 2,160,003; May 30.
Air heating and conditioning unit. E. W. Jorolemon. 2,160,269; May 30.
Aircraft, Apparatus for the starting and landing of. R. Weichardt, W. Freistadt, and J. Hicke. 2,160,449; May 30.
Airplane. C. R. A. M. de Rougé. 2,160,455; May 30.
Airplane. G. S. Schairer. 2,160,089; May 30.
Alcohol soluble resins. W. H. Carmody. 2,160,537; May 30.
Alcoholic solutions of sulphur and metal sulphides, Production of. P. Nitsche. 2,160,030; May 30.
Algebraic totalizer. O. J. Sundstrand. 2,160,296; May 30.
Alloy: *See*—
Magnesium alloy. Wear resisting alloy.
Alloy. W. F. Stoody and J. R. Spence. 2,160,423; May 30.
Alloys, Electrodeposition of tungsten. H. H. Armstrong and A. B. Menefee. 2,160,321–2; May 30.
Alloys, Manufacturing hard frittered. M. Oswald. 2,160,670; May 30.
Amines, Preparing hexadecyl. L. W. Covert. 2,160,058; May 30.
Amines, Production of aliphatic. W. Schmidt. 2,160,578; May 30.
Ammunition. W. Brün and J. E. Burns. 2,160,469; May 30.
Antenna for automobiles, Radio. E. I. Wiggins. 2,160,047; May 30.
Antioxidant for rubber composition. R. F. Dunbrook and B. J. Humphrey. 2,160,200; May 30.
Antioxidants, Manufacture of aliphatic ketone-dairylamine. L. Meuser and C. S. Dewey. 2,160,223; May 30.
Antislipping device. G. A. Moriarty. 2,160,601; May 30.
Apparatus for getting superelevations for curves of various radii and speeds for highways and railroads. F. E. Willison. 2,160,049; May 30.
Applicator, Wax or like. R. B. Kingman. 2,160,155; May 30.
Arcs, Apparatus for the operation of direct current electric. P. Baumann, K. Krapp, H. Schilling, and R. Stadler. 2,160,452; May 30.
Arm rest container. H. F. Rehg. 2,160,282; May 30.
Article, Packaged. F. M. Slusar. 2,160,235; May 30.
Articles from plastic materials, Apparatus for the manufacture of. W. J. Miller. 2,160,484; May 30.
Articles in sorting and like machines, Apparatus for feeding. W. R. Horsfield. 2,160,101; May 30.
Ash receiver, Gear shift lever. A. J. K. Wallace. 2,160,348; May 30.
Ash removing device. J. Martin. 2,160,026; May 30.
Attachment for circular knitting machines, Added thread-feeding. C. A. Fenstermacher. 2,160,614; May 30.
Automobile. V. W. Kliesrath. 2,160,271; May 30.
Automobile jack. F. F. Weller. 2,160,770; May 30.
Axle drive for generators. C. W. Spicer. 2,160,445; May 30.
Axle housings, Rolling banjo type. G. Spatta. 2,160,179; May 30.

Bag: *See*—
Clothespin bag. Garment bag.
Bag filling and weighing machine. J. M. Low. 2,160,746; May 30.
Bags, Apparatus for closing, sewing, and sealing. R. N. Cundall. 2,160,059; May 30.
Bags, Apparatus for filling. R. N. Cundall. 2,160,060; May 30.
Bags, Sealing tin-tie. H. I. Matchett. 2,159,976; May 30.
Bailer. D. C. Walker. 2,160,320; May 30.
Baking powder. J. R. Schlaeger. 2,160,233; May 30.
Baking preparation. W. H. Knox, Jr. 2,160,701; May 30.
Balancing machine. T. Ongaro. 2,160,314; May 30.
Ball transmission mechanism. A. S. Edmonds. 2,160,308; May 30.
Band pass filter. W. Runge. 2,160,088; May 30.
Bar: *See*—
Detector bar. Splice bar.
Battery connector. F. S. Shipman. 2,160,422; May 30.
Bean-slicing machine. M. R. Anstice. 2,160,693; May 30.
Bearing: *See*—
Journal bearing. Roller bearing.
Bearing. A. H. Dall and H. Ernst. 2,160,778; May 30.
Bearing. F. Leister. 2,160,220; May 30.
Bearings, Making roller. L. R. Helm. 2,160,382; May 30.
Bed covering support. C. M. Schadell. 2,160,443; May 30.
Beer and preparing same. P. P. Gray and I. Stone. 2,159,985; May 30.
Belt, Elastic. I. Monesson. 2,160,368; May 30.
Beryllium minerals, particularly beryl, Decomposing. G. Jaeger and A. Wille. 2,160,547; May 30.
Bicycle forks, Making. J. M. Singer. 2,160,039; May 30.
Bicycle front fork structure. F. W. Schwinn. 2,160,035; May 30.
Bicycle spring fork mechanism. F. W. Schwinn. 2,160,034; May 30.
Binder, Looseleaf. R. W. Hunt. 2,160,147; May 30.
Bit heating apparatus. L. A. Galambos, Jr. 2,160,265; May 30.
Blasting machine. M. D. McCarty. 2,160,222; May 30.
Bleaching process and composition. J. S. Reichert, W. S. Hinegardner, and H. L. Potter. 2,160,391; May 30.
Block or the like, Building. J. J. Cantwell. 2,160,792; May 30.
Blood stancher. W. O. Herrmann. 2,160,503; May 30.
Board: *See*—
Ironing board.
Boiler, Mercury. A. J. Larrecq. 2,160,619; May 30.
Book rack. W. E. Haskin. 2,160,141; May 30.
Bookmaking apparatus. A. L. Grammer. 2,160,728; May 30.
Boron fluoride, Preparation of anhydrous. D. J. Loder. 2,160,576; May 30.
Bottle carrier. E. H. Lupton. 2,160,550–1; May 30.
Box: *See*—
Folding box. Journal box.
Boxes or cartons, Method of and machine for sealing. J. Van Buren. 2,160,008; May 30.
Brace, Camera tripod. F. Cavuoti. 2,160,538; May 30.
Bracelet connector. S. Ritter. 2,160,316; May 30.
Brake: *See*—
Cycle and like brake. Speed controlled brake.
Fluid pressure brake. Speed and load controlled brake.
Hand brake. Variable load brake.
Portable bending brake. Sled brake.
Brake. K. P. Brace. 2,160,055; May 30.
Brake. J. S. Irving. 2,160,071; May 30.
Brake control means. B. S. Aikman. 2,160,189; May 30.
Brake control means. E. R. Fitch. 2,160,191; May 30.
Brake control means. R. L. Nash. 2,160,190; May 30.
Brake lever, Friction. R. A. Sandberg. 2,160,679; May 30.
Brake tester. L. L. Smalley. 2,160,092; May 30.
Bread slicing machine. H. J. Criner. 2,160,493; May 30.
Bread slicing machine. N. W. Lyon. 2,160,387; May 30.
Brief case. S. H. Lifton. 2,159,995; May 30.
Brooder, Electrically heated. C. H. Willauer. 2,160,185; May 30.
Brush, Sectional. L. H. Nielsen. 2,160,029; May 30.
Buffing, equipment. C. J. Hayton. 2,160,143; May 30.
Building construction. J. J. Newman. 2,160,225; May 30.
Building construction. M. R. Price. 2,160,794; May 30.

Building construction. T. L. Wolfe. 2,160,773; May 30.
Building unit and wall, Prefabricated. M. G. Hilpert. 2,159,991; May 30.
Bulldozer. C. Le Bleu. 2,160,702; May 30.
Bumper device. W. L. Morrison. 2,160,439; May 30.
Bundle trimmer, Random length. E. G. Cleveland. 2,160,307; May 30.
Bushing for rotary tables. A. Pranger. 2,160,516; May 30.
Business machine stand. W. T. Sagner. 2,160,289; May 30.
Bypass valve. F. W. Moore. 2,160,028; May 30.
Cabinet: *See*—
Radio cabinet.
Cable connector for outlet boxes. M. J. Conners. 2,160,353; May 30.
Cable reel jack. F. L. Gormley and H. S. Brown. 2,160,343; May 30.
Calendar device. J. H. Kulow. 2,160,104; May 30.
Calculating machine. S. Hilder. 2,160,361; May 30.
Cam control, Harness. E. Messer. 2,160,554; May 30.
Can: *See*—
Garbage can.
Can handling apparatus. A. R. Thompson. 2,160,237; May 30.
Can or container, Preserving. H. Karl. 2,160,072; May 30.
Can piercing and serving device. C. E. McManus and F. L. Darling. 2,160,705; May 30.
Cap. J. Pasternak. 2,160,513; May 30.
Cap and dauber, Combination metal. H. and M. Rabinowitz. 2,160,517; May 30.
Car: *See*—
Railway car.
Car loading device. S. M. Nampa. 2,160,079; May 30.
Carbon tetrachloride, Manufacture of. B. Hennig. 2,160,574; May 30.
Carburetor. P. X. A. Gistucci and J. Lichtenstein. 2,160,067; May 30.
Carburetor device. A. H. Blattner. 2,160,410; May 30.
Carburetor structure. A. H. Blattner and F. A. Kommer. 2,160,411; May 30.
Carrier: *See*—
Bottle carrier.
Carrier for bottles or other objects. T. H. Jenkins. 2,160,662; May 30.
Carton, Display. W. M. Gamble. 2,160,203; May 30.
Case: *See*—
Brief case.
Case and baby bed, Convertible traveling. S. B. Hawkins. 2,160,069; May 30.
Casing, Control. L. M. Persons. 2,160,623; May 30.
Casings and tubings, Setting devices at predetermined levels in well. O. Hammer. 2,160,357; May 30.
Cellulose derivatives, Dissolving alkali soluble. R. W. Maxwell. 2,160,106; May 30.
Cellulose derivatives, Preparing. R. W. Maxwell and J. H. Shipp. 2,160,107; May 30.
Cellulose ethers, Water soluble. A. T. Maasberg. 2,160,782; May 30.
Centrifugal separator. C. H. Hapgood. 2,160,140; May 30.
Ceramic mold. G. V. McCauley. 2,160,438; May 30.
Cheese product and process of manufacture. E. Lundstedt and J. Taub. 2,160,159; May 30.
Chemical reactions, Apparatus for carrying out. R. L. Shuman. 2,160,177; May 30.
Chest, Knock-down. W. T. Green and C. Brenner. 2,160,653; May 30.
Chuck, Tire-valve. C. L. Eksergian and P. E. Baker. 2,160,414; May 30.
Cigarettes, Manufacture of filter tip. W. F. M. Edwards. 2,160,201; May 30.
Circuit: *See*—
Detector circuit. Metering circuit.
Electric valve circuit.
Circuit breaker. R. R. Pittman and C. H. Walsh. 2,160,562; May 30.
Circuit breaker. E. H. Taylor. 2,160,236; May 30.
Circuit breaker. R. C. Van Sickle and J. M. Cumming. 2,160,630; May 30.
Circuit breaker, Electric. D. C. Prince. 2,160,673; May 30.
Circuit interrupter. J. Sandin. 2,160,681; May 30.
Clasp. O. J. Ward. 2,160,569; May 30.
Cleaner for carding bar teeth. S. C. Markley. 2,160,703; May 30.
Clip: *See*—
Curl clip. Pencil clip.
Clip forming and clamping machine. I. Lukasiewicz. 2,160,787; May 30.
Clockworks of toy vehicles, Device for winding up spring-driven. E. Horn. 2,160,738; May 30.
Clothes pressing machine. I. Burnstein. 2,160,013; May 30.
Clothespin bag. C. S. Hedquist. 2,160,658; May 30.
Clutch: *See*—
Friction clutch.
Clutch control mechanism. G. O. Ainsworth. 2,160,051; May 30.
Clutch control mechanism. H. W. and E. R. Price. 2,160,084; May 30.
Clutch for statistical machines. W. F. Kelley. 2,160,153; May 30.
Coaster for holding drinking vessels. E. C. Richards. 2,160,468; May 30.
Coat and hood for rain wear, Combination. D. Silber. 2,160,682; May 30.
Coatings to hollow bodies, Applying. E. Schnabel. 2,160,371; May 30.
Coin selector. B. E. Mills. 2,160,751; May 30.
Comb brush. E. Kreutzig. 2,160,618; May 30.
Combustion-product engine. J. R. Kingston and W. H. Powell. 2,160,218; May 30.
Comparometer. R. G. Sagebeer. 2,160,603; May 30.
Composite door. F. A. Johnson. 2,160,151; May 30.
Compositions for fluid transmission of power. W. P. Smith. 2,160,095; May 30.
Compounds of the dihydroestrin series and making same, Partially esterified. K. Miescher and C. Scholz. 2,160,555; May 30.
Concordance restoring system for distant controlling means. E. Granat. 2,160,779; May 30.
Concrete structures, Method and apparatus for forming. H. S. Curren. 2,160,647; May 30.
Condenser: *See*—
Electric condenser.
Conduit system for buildings, Air. H. E. Durst. 2,160,132; May 30.
Confection. W. S. Hackett. 2,160,730; May 30.
Connecting means and making same. E. M. Spiaine and T. C. Jarrett. 2,160,686; May 30.
Connecting or securing means. E. Renneberg. 2,160,675; May 30.
Connection, Bedspread coupling. L. Scalera. 2,160,174; May 30.
Connecting rod. J. W. Botsford. 2,160,012; May 30.
Connector: *See*—
Battery connector. Electrical connector.
Bracelet connector. Wire connector.
Container: *See*—
Arm rest container.
Container. H. L. Myers. 2,160,620; May 30.
Container. F. D. Palmer. 2,160,164; May 30.
Container. W. A. Ringler. 2,160,488; May 30.
Container closure. R. B. Bukolt. 2,160,430; May 30.
Container closure. W. T. Parkin. 2,159,978; May 30.
Container closure, vent and seal, Preserving. R. B. Bukolt. 2,160,429; May 30.
Container construction, Shipping. O. M. Masters and H. G. Stager. 2,160,221; May 30.
Container for papers, cards, and the like. W. B. Griswold. 2,160,267; May 30.
Control apparatus. A. E. Krogh. 2,159,971; May 30.
Control device. A. J. Brugma. 2,160,582; May 30.
Control for air flow to underfeed stokers. F. M. Bentall. 2,160,409; May 30.
Control mechanism, Hydraulic. E. Martin. 2,160,025; May 30.
Control system. M. Gieseler. 2,160,587; May 30.
Control system, Remote. L. L. Cunningham. 2,160,400; May 30.
Conveyer. R. E. Briggs. 2,160,534–5; May 30.
Conveyer. A. De L. Sinden. 2,160,234; May 30.
Conveyer aligning device. V. F. Carus and D. D. Alexander. 2,160,057; May 30.
Cooler: *See*—
Water cooler.
Cooling device, Nondiluting. J. V. Patterson. 2,160,165; May 30.
Cooling plant. T. Wilhelm. 2,160,184; May 30.
Cores, Apparatus for making strip wound magnetic. J. C. Granfield. 2,160,589; May 30.
Corn picker. A. W. Oehler and R. L. Anderson. 2,160,486; May 30.
Corset. A. I. Braissant. 2,160,428; May 30.
Cotton conditioner. P. H. Rylander. 2,160,253; May 30.
Counter rolling machine. C. W. Bailey. 2,160,775; May 30.
Coupler. E. P. Kinne and F. H. Kayler. 2,160,419; May 30.
Coupling for fabric hose. W. H. Evans. 2,160,354; May 30.
Cover: *See*—
Float gauge cover.
Cover for containers, Airtight. S. Kazanjian. 2,160,591; May 30.
Crate. C. A. Woolsey. 2,160,631; May 30.
Crate, Shipping. J. J. O'Connell and H. S. Malone. 2,160,461; May 30.
Curl clip. G. Valentine. 2,160,346; May 30.
Cutter: *See*—
Mill and silage cutter. Pipe cutter.
Cycle and like brake. F. W. Taylor. 2,160,181; May 30.
Cylinder, Fluid pressure. M. Savio. 2,160,565; May 30.
Cylinder for hydraulic brakes, Master. L. E. La Brie. 2,160,075; May 30.
Defects in sound tracks, Method and apparatus for the elimination of. R. Meyer. 2,160,252; May 30.
Defroster for aircraft. F. G. Brammer. 2,160,397; May 30.
Defroster, Windshield. H. F. Maloney. 2,160,597; May 30.
Dental pencil. A. Haeberlin. 2,160,731; May 30.
Dental plate cleanser. S. Jellinek. 2,160,149; May 30.
Detector bar. C. D. Brown. 2,160,718; May 30.
Detector circuit, Superregenerative. R. C. Jensen. 2,160,663; May 30

Device for indicating the presence of noncondensable gases in steam systems. F. C. Stamm. 2,160,004; May 30.
Device for removing the heads of golf clubs. W. L. Wettlaufer. 2,160,395; May 30.
Device for reproducing sound. A. T. van Urk and R. Vermeulen. 2,160,112; May 30.
Device for spinning artificial silk threads. K. Berndt. 2,159,961; May 30.
Diaphragm for lenticulated films. A. Blondel. 2,160,716; May 30.
Die. F. W. Bowie and A. S. Lieb. 2,160,427; May 30.
Die stock and making cutting dies. C. E. Martin. 2,160,437; May 30.
Direction finding system. K. Fritz. 2,160,135; May 30.
Discharge device, Pool-type. J. M. Cage. 2,160,583; May 30.
Dispenser. W. F. Nagel. 2,160,602; May 30.
Dispenser for sheets. F. L. Broeren and A. S. Krueger. 2,160,412; May 30.
Display device. J. A. Fletcher. 2,160,724; May 30.
Display rack. W. E. Hull. 2,160,102; May 30.
Display rack, Merchandise. M. A. Wolf. 2,160,050; May 30.
Distillation. B. G. Aldridge and E. G. Ragatz. 2,160,256; May 30.
Doll, Rubber. F. S. Hugus and L. R. Lower. 2,160,739; May 30.
Door: *See*—
Composite door.
Door actuating mechanism for locomotive tender fuel doors. W. L. Lentz and C. F. Kantola. 2,160,743; May 30.
Door control, Car. C. H. Clark. 2,160,197; May 30.
Door control, Dipper. V. Davidson. 2,160,432; May 30.
Door fastener. P. J. McNuney. 2,160,460; May 30.
Door for furnaces, Explosion. E. O. Engels. 2,160,262; May 30.
Door handle, Automobile. G. C. Alexander. 2,160,611; May 30.
Door locking apparatus, Automobile. O. L. Beck. 2,160,011; May 30.
Door mounting and latching means. C. Hass, R. Witt, and W. Quade. 2,160,330; May 30.
Doughnut machine. C. E. Carpenter. 2,160,123; May 30.
Drafting apparatus for slivers for the production of spun yarns. K. Honda. 2,160,545; May 30
Drafting machine. H. L. DeLisle. 2,160,130; May 30.
Drafting mechanism. B. H. Williams. 2,160,186; May 30.
Drawbar. W. O. Bechman. 2,160,350; May 30.
Dredging machine. J. Spadaro. 2,160,761; May 30.
Drill. J. H. Lind. 2,160,158; May 30.
Drill press for tapping attachment. H. G. Procunier. 2,160,674; May 30.
Dump body for trucks. N. Severinghaus. 2,160,789; May 30.
Duplicating machine. I. M. Newgard. 2,160,080; May 30.
Dyeing machine. W. A. Baldwin. 2,160,300; May 30.
Dyestuffs and their manufacture, Metal azo. W. Wehrli. 2,160,448; May 30.
Dynamo-electric machine, Alternating-current. E. W. Krebs. 2,160,594; May 30.
Easel. M. E. and W. S. Evans. 2,160,456; May 30.
Easel, Folding. A. J. Housman and W. S. Evans. 2,160,457; May 30.
Egg grading and packing machine. G. A. Swartz. 2,160,319; May 30.
Eggs, Preserving. H. H. Stamper. 2,160,604; May 30.
Elastic system. A. Dubonnet. 2,160,541; May 30.
Electric condenser. K. G. Coutlée. 2,160,646; May 30.
Electric controller. F. Arndt, A. Ransch, and W. Staffel. 2,160,635; May 30.
Electric device and circuit therefor, Light sensitive. W. F. Kannenberg. 2,160,383; May 30.
Electric devices, Mounting interchangeable. R. H. Bentley. 2,160,713; May 30.
Electric valve circuit. W. H. Teare and O. W. Livingston. 2,160,688; May 30.
Electrical apparatus. R. B. Peacock. 2,160,708; May 30.
Electrical change-over. C. Tappan. 2,160,005; May 30.
Electrical conductors, Insulation of. W. A. Gibbons. 2,160,204; May 30.
Electrical connector. C. O. Pearson and C. L. Sherwood. 2,160,440; May 30.
Electrical measuring method and means. J. M. Pearson. 2,160,671; May 30.
Electrical relay. L. Devol. 2,160,649; May 30.
Electrode arrangement for cathode ray tubes. H. A. Iams. 2,160,021; May 30.
Electrode feeding means. H. H. Strong. 2,160,490; May 30.
Electrode, High resistance. F. R. Hensel. 2,160,659; May 30.
Electrode spacer. G. W. Warren. 2,160,044; May 30.
Electron discharge apparatus. G. K. Teal. 2,160,796–8; May 30.
Electron discharge device. G. K. Teal. 2,160,799; May 30.
Electron discharge device. V. L. Ronci and J. W. West. 2,160,086; May 30.
Electron discharge tube. H. Niclassen. 2,160,081; May 30.
Emulsions, Producing improved aqueous-oil. P. P. Gray and I. Stone. 2,159,986; May 30.
Engine: *See*—
Combustion-product Internal combustion engine. engine.
Engine control, Over speed. E. V. Stone. 2,160,318; May 30.
Engine throttle control, Automatic. M. F. Bates. 2,160,194; May 30.
Envelope applying device, Garment. B. A. Wood. 2,160,245; May 30.
Equalizing means for hydraulic brakes. L. E. La Brie. 2,160,074; May 30.
Esters. H. J. Barrett and D. E. Strain. 2,160,532; May 30.
Exciter lamp. L. A. Herzig. 2,159,990; May 30.
Exhauster, Portable. W. H. C. Ness and M. B. Sawyer. 2,160,278; May 30.
Expansion joint. J. Schurman. 2,160,758; May 30.
Explosive. H. F. Schaefer. 2,160,626; May 30.
Explosive composition and preparation, Gelatinized high. W. E. Lawson. 2,159,973; May 30.
Extraction process. W. J. D. van Dijck. 2,160,607; May 30.
Extractor: *See*—
Juice extractor. Well casing extractor.
Fabric, Making a pile. W. D. Kellogg and H. C. Elgabroadt. 2,160,154; May 30.
Fan. K. D. McMahan. 2,160,666–7; May 30.
Fastener: *See*—
Door fastener. Paper fastener.
Hatch cover fastener. Slide fastener.
Fastener attaching machine, Duplex snap. O. J. Huelster and J. G. Wolff. 2,160,146; May 30.
Fastener for garments and the like, Detachable. M. G. Cook. 2,160,492; May 30.
Fasteners, Making. H. Weber. 2,160,298; May 30.
Feed control for welding rods. R. G. LeTourneau, R. Peterson, and E. E. Isgren. 2,160,480; May 30.
Feed machine, Compressed. J. W. Billows. 2,160,302; May 30.
Feeder: *See*—
Sheet feeder.
Fence, Road guard. R. R. Robertson. 2,160,519–20; May 30.
Film apparatus, Sound. E. L. Fischer. 2,160,014; May 30.
Filter: *See*—
Air filter. Band pass filter.
Filter and making it, Glass. H. C. Bates. 2,160,571; May 30.
Fins to tubes, Device for bonding. F. M. Young. 2,160,633; May 30.
Fishing pole holder. R. W. Goeb. 2,160,499; May 30.
Fishing reel, Level wind. W. Shakespeare, Jr. 2,160,175; May 30.
Flame arrester. C. Spaeth. 2,160,684; May 30.
Flange for tunnel lining joints, Auxiliary calking. J. M. Ribble. 2,160,342; May 30.
Flashlight switch. G. C. Fullmer. 2,160,496; May 30.
Flashlight switch. O. T. Wood. 2,160,529; May 30.
Flaw detection. H. C. Drake. 2,160,540; May 30.
Float gauge cover. C. Spaeth. 2,160,685; May 30.
Floor coverings, Apparatus for making rubber. W. S. Vrooman. 2,160,182; May 30.
Fluid control valve. N. Borresen. 2,160,117; May 30.
Fluid cooled elements for radio circuit. G. H. Williams. 2,160,098; May 30.
Fluid pressure brake. J. Canetta. 2,160,209; May 30.
Fodder, Process and media for the preservation of green. G. Pfeiffer. 2,160,167–8; May 30.
Folder construction for sheet music or the like. A. P. Gruner. 2,160,205; May 30.
Folding box. C. Burel. 2,160,643; May 30.
Foods and beverages, Fluid charging of. W. B. Threm. 2,160,043; May 30.
Foot exerciser. J. A. Cunningham. 2,160,722; May 30.
Foot-sole-contour determining apparatus. E. Matthias. 2,160,027; May 30.
Footwear. H. Auerbach. 2,160,692; May 30.
Footwear, Corrective. C. E. Turner. 2,160,238; May 30.
Fountain. B. Jones and J. S. Hamel. 2,160,474; May 30.
Frame: *See*—
Member and escutcheon Umbrella frame.
frame.
Freeze eliminator for dining car drains and the like. J. Josephus. 2,160,475; May 30.
Friction clutch. A. V. Oliver. 2,160,752; May 30.
Fuel, Burning fluid. W. Ferguson. 2,160,615; May 30.
Fuel, Molded artificial. G. O. F. Piou de Saint-Gilles and J. G. Y. Saget. 2,160,442; May 30.
Fuel vaporizing unit for engines. C. W. Huffman. 2,160,309; May 30.
Furnace: *See*—
Metallurgical furnace.
Furnace. B. Goerg. 2,160,800; May 30.
Furnace. J. A. Lindsay. 2,160,509; May 30.
Furnace. L. Lockwood. 2,160,481; May 30.
Furring system. R. E. Marsh. 2,160,161; May 30.
Fuse, Expulsion. A. G. Steinmayer. 2,160,464; May 30.
Game. L. W. Dunham. 2,159,966; May 30.
Game. J. L. Zinngrabe. 2,160,299; May 30.
Game apparatus. I. H. Athey. 2,160,451; May 30.
Game device. W. E. Andrews. 2,160,349; May 30.

Garbage can. W. S. Griffin, Jr., W. A. Harris, and D. H. Wallace, Jr. 2,160,433; May 30.
Garment. M. Mayer. 2,160,078; May 30.
Garment. D. Rothstein. 2,160,521; May 30.
Garment. E. Swan. 2,160,096; May 30.
Garment bag. G. K. Ballentin. 2,159,959; May 30.
Garment blocking device. H. McKee. 2,160,337; May 30.
Garment hanger. N. E. Brooke. 2,160,325; May 30.
Garment hanger. J. D. Coney. 2,160,127–9; May 30.
Garment hanger. H. C. Ruen. 2,160,173; May 30.
Garment hanger. L. A. Young. 2,160,188; May 30.
Gas and liquid contact apparatus. R. L. Hasche. 2,159,988; May 30.
Gas in a closed region, Apparatus for controlling the amount of a. V. E. Carbonara. 2,160,326; May 30.
Gaseous mixtures, Fractionating. H. J. Nichols, Jr., and G. L. Mateer. 2,160,163; May 30.
Gate valve, Automatic pressure controlled. M. A. Thomason. 2,160,766; May 30.
Gauge for last lathes, Last block. E. Eldridge. 2,160,723; May 30.
Gear shifting mechanism, Automatic. E. G. Hill. 2,160,331; May 30.
Gearing, Overdrive. O. H. Banker. 2,159,980; May 30.
Generator: *See*—
Oscillation generator.
Generator and frequency modulator, Oscillation. G. L. Usselman. 2,160,466; May 30.
Geophysical instrument. H. A. Fore and A. K. Edgerton. 2,160,356; May 30.
Glass and ceramic sheets, tiles and other products, Decoration of. F. D. Parkinson. 2,160,560; May 30.
Glass, Apparatus for tempering. G. R. Ford, Jr. 2,160,065; May 30.
Glass edging machine. W. J. Robertson. 2,160,085; May 30.
Glass sheets upon work tables, Mounting. E. A. Rosin. 2,160,033; May 30.
Glassware and other articles, Apparatus for decorating. F. C. Flint. 2,160,725; May 30.
Golf club grip. E. E. Hall. 2,160,656; May 30.
Golf tee. J. P. Bundy. 2,160,122; May 30.
Governor, Centrifugal. P. Martinotti. 2,160,553; May 30.
Governor for injection internal combustion engines, Speed. A. Schweizer. 2,160,109; May 30.
Grasshopper holder. J. H. Jones. 2,160,436; May 30.
Greases and manufacturing the same, Adherent. A. J. Morway and J. C. Zimmer. 2,160,162; May 30.
Grinding machine. H. W. Larsson. 2,160,365; May 30.
Grooving and surfacing machine. W. H. Haynes. 2,160,732; May 30.
Ground working machine. S. F. Webb. 2,160,243; May 30.
Guard for fishhooks, Detachable weed. M. E. Walsh. 2,160,347; May 30.
Guard, Foot. H. N. Wasser. 2,160,768; May 30.
Guide for cone or tube winding machines, Thread. E. S. Kennedy. 2,160,780; May 30.
Guard, Hose. A. L. Wallace and R. Berkowitz. 2,160,240; May 30.
Hair curling device. H. Huber. 2,160,362; May 30.
Haircloth. E. A. C. A. and P. C. L. A. Gheysens. 2,160,616; May 30.
Hairdressing means. F. Cerisano. 2,160,471; May 30.
Hair waving, Method of and pad for. C. J. Lewit. 2,160,744; May 30.
Hand brake. R. J. Olander. 2,160,279; May 30.
Handle: *See*—
Door handle.
Hanger: *See*—
Garment hanger.
Hanger or the like, Skirt. M. B. Nelson. 2,160,785; May 30.
Hatch cover fastener. W. M. Dwyer. 2,160,260; May 30.
Heat control system. V. M. Cruikshank. 2,160,381; May 30.
Heat treatment of hydrocarbon gases to dehydrogenate the same. F. Martin, H. Tramm, and R. Jung. 2,160,170; May 30.
Heater. F. A. Furlong. 2,160,264; May 30.
Heating apparatus. B. Goerg. 2,160,801–3; May 30.
Heating device, Electric. S. A. Platt. 2,160,227; May 30.
Heating system. J. T. Midyette, Jr. 2,160,600; May 30.
Highway signal, Emergency. G. E. Archer. 2,160,426; May 30.
Hinge construction. N. L. Obrecht. 2,160,485; May 30.
Holder: *See*—
Fishing pole holder. Match holder.
Grasshopper holder. Tool holder.
Magnetic work holder.
Holder assembly for reflector type floor lamps. P. Lebert and R. Dack. 2,160,157; May 30.
Holder for photographic cameras, Film. K. Morsbach and K. Raschke. 2,159,998; May 30.
Holding and releasing means, Brake. S. M. Coffman. 2,160,126; May 30.
Hone. H. L. Blood. 2,159,962; May 30.
Honing mechanism. C. W. Floss. 2,160,494; May 30.
Hosiery, Ornamental heel reinforcement for. F. E. Struve. 2,160,373; May 30.
Housing, Draft-gear. W. C. Hedgcock. 2,160,417; May 30.
Humidifier. N. Ruby. 2,160,678; May 30.
Husking device. W. J. Coultas. 2,160,306; May 30.
Hydrocarbons, Conversion of. R. F. Ruthruff. 2,160,288; May 30.
Hydrocarbons, Converting. V. Voorhees. 2,160,239; May 30.
Hydrocarbons to liquid, Conversion of gaseous. R. F. Ruthruff. 2,160,287; May 30.
Hydrocarbons, Treating. H. V. Atwell. 2,160,774; May 30.
Hydroxy-amines, Higher alkyl. P. J. Gaylor. 2,160,138; May 30.
Ice cream disher. H. C. Gessler. 2,160,585; May 30.
Ignition apparatus. W. Walther and W. Hirsch. 2,160,241; May 30.
Ignition control apparatus. J. T. Fitzsimmons, H. L. Hartzell, and E. M. Claytor. 2,159,968; May 30.
Image dissector tube. M. Ploke. 2,160,672; May 30.
Impact wrench. F. A. Jimerson and H. C. Reynolds. 2,160,150; May 30.
Incineration process, Garbage-rubbish. G. W. Kelley, Jr. 2,160,699; May 30.
Indicator: *See*—
Liquid level indicator. Specific gravity indicator.
Induction apparatus and making the same, Electromagnetic. J. C. Granfield. 2,160,588; May 30.
Ink composition, Ribbon. S. A. Neidich. 2,160,511; May 30.
Insecticide. F. M. Thompson, Jr. 2,160,579; May 30.
Internal combustion engine. D. M. Berges. 2,160,324; May 30.
Internal combustion engine. H. C. Colburn. 2,160,380; May 30.
Internal combustion engine. G. E. Sandblom. 2,160,755; May 30.
Iron. J. K. Sebo. 2,160,421; May 30.
Ironing board, Cabinet. J. P. Jensen. 2,160,435; May 30.
Jack: *See*—
Automobile jack. Cable reel jack.
Joint: *See*—
Expansion joint. Rail joint.
Joint and making same, Pipe. H. W. Fletcher. 2,160,263; May 30.
Joint, especially for electrical shot-firing outfits or similar provisional electrical circuits, Wire. W. Norres. 2,160,313; May 30.
Journal bearing. A. H. Dall and H. Ernst. 2,160,777; May 30.
Journal box. J. O. Madison. 2,159,996; May 30.
Juice extracting and straining appliance, Fruit. S. P. Morse. 2,160,388; May 30.
Juice extractor. L. H. Scurlock. 2,160,523; May 30.
Keying, Idle time. H. O. Peterson. 2,160,083; May 30.
Kiln construction and operation, Tunnel. P. d'H. Dressler. 2,159,965; May 30.
Knock-down load support. W. B. Cast. 2,160,124; May 30.
Label and labeling. T. H. Krueger. 2,159,993; May 30.
Lamp: *See*—
Exciter lamp.
Lamp base, Tubular. C. S. Peterson. 2,160,786; May 30.
Lamp connecting device, Electric. J. Buser. 2,160,431; May 30.
Lamps, tubes and the like, Apparatus for interiorly coating. O. H. Biggs. 2,160,714; May 30.
Latch. A. V. Card. 2,160,303; May 30.
Lathe, Crankshaft. W. F. Groene. 2,160,402; May 30.
Lead alloy and preparing the same. N. M. H. Bullock. 2,159,982; May 30.
Lighter. G. P. Schmitt. 2,160,002; May 30.
Lighting equipment. P. L. Coulter. 2,160,721; May 30.
Liquid dispensing apparatus. R. J. Jauch, W. G. Polhamus, and R. H. Arnold. 2,160,459; May 30.
Liquid dispensing apparatus. J. A. Logan and W. H. De Lancey. 2,160,386; May 30.
Liquid dispensing systems, Filling. E. G. Hedges and R. Stickles. 2,160,501; May 30.
Liquid level indicator. T. C. McKee. 2,160,276; May 30.
Liquors, Making. A. Shapiro. 2,160,036; May 30.
Lock: *See*—
Permutation lock. Vehicle lock.
Lock and latch, Door. E. J. Baumé. 2,160,301; May 30.
Lock switch, Steering column. W. C. Edwards. 2,160,261; May 30.
Loom attachment. J. E. McCarvey. 2,160,749; May 30.
Loom attachment. C. A. Pace. 2,160,707; May 30.
Loudspeaker. H. R. Pausin. 2,160,166; May 30.
Lubricant. C. M. Loane and B. H. Shoemaker. 2,160,273; May 30.
Lubricant. O. L. Maag. 2,160,577; May 30.
Lubricant. B. H. Shoemaker and C. M. Loane. 2,160,293; May 30.
Lubricating device. N. R. Krause. 2,160,508; May 30.
Lubricating device. E. F. Milbank. 2,160,784; May 30.
Lubricating system for roller bearings. O. J. Horger. 2,160,418; May 30.
Lubrication apparatus. R. T. Stewart. 2,160,295; May 30.
Machine for bending angle bars. W. E. Kane. 2,160,216; May 30.
Machine for making braided wire netting. S. B. Blaisdell and R. J. A. Ingouf. 2,160,715; May 30.
Machine for making pies, turnovers and the like. I. F. McDonald. 2,160,783; May 30.

Machine for notching and bending pipes. H. V. Dunn. 2,160,327; May 30.
Machine for shaping butter and like materials. U. Fabbro. 2,160,696; May 30.
Machine tool. F. J. Kampmeier. 2,160,476; May 30.
Machinery for making circular and coiled articles. G. K. Garrett. 2,160,497; May 30.
Magnesium alloy. A. Burkhardt and R. Knabe. 2,159,964; May 30.
Magnet, Lifting. H. E. Hodgson. 2,160,019; May 30.
Magnetic separator. P. L. Steffensen. 2,160,628; May 30.
Magnetic work holder. F. R. Mallalieu. 2,160,405; May 30.
Manifold, Valve. F. P. Roesch. 2,160,563; May 30.
Manometer unit for a sphygmomanometer. R. F. Roda. 2,160,407; May 30.
Marking machine. N. V. Dyer. 2,160,063; May 30.
Match. W. W. Bell. 2,160,115; May 30.
Match holder. J. B. Waller. 2,160,255; May 30.
Match package. A. F. Stone. 2,160,180; May 30.
Material and manufacturing it, water-repellent textile. A. Voss and H. Staerk. 2,160,375; May 30.
Material, Fuel resisting. H. Stärk. 2,160,372; May 30.
Material packaging method and means. A. C. Routh. 2,160,285; May 30.
Material, Process and apparatus for coiling strip. R. E. Asbury and E. Reed. 2,160,396; May 30.
Materials of vegetable origin, Carbonization of organic cellulosic. T. Reichert. 2,160,341; May 30.
Materials, Treatment of textile. J. H. Shipp. 2,160,176; May 30.
Maximum-demand meter. A. L. Emens. 2,160,415; May 30.
Measuring instrument. G. W. Grisdale. 2,160,266; May 30.
Member and escutcheon frame, Combination integral transparent. K. E. B. Stenberg. 2,160,762; May 30.
Mercaptan containing material, Treatment of. H. E. Bode. 2,160,116; May 30.
Message ejecting mechanism for telegraph printers. H. H. Haglund and L. R. Foster. 2,160,139; May 30.
Metal, Apparatus for rolling sheet. F. L. O. Wadsworth. 2,160,767; May 30.
Metal members, Manufacture of composite. J. B. Orr, Jr. 2,160,559; May 30.
Metal rolling machine applicable for the manufacture of electric conductors. P. V. Hunter and H. Hill. 2,160,268; May 30.
Metals and a flux for effecting said process, Process of removing impurities for molten. I. A. Nicholas. 2,159,977; May 30.
Metals and paper, Recovering. L. Halberstadt. 2,160,500; May 30.
Metals by acids of salts and its applications, Product for inhibiting the attack on. J. E. J. G. Mascré. 2,160,406; May 30.
Metals, Making composite. J. B. Orr, Jr. 2,160,558; May 30.
Metallurgical furnace. A. G. Witting. 2,160,610; May 30.
Meter: *See*—
Maximum-demand meter.
Metering circuit. J. R. Barnhart. 2,160,712; May 30.
Metering pump. J. F. Hoffer. 2,160,735; May 30.
Mill: *See*—
Tube rolling mill.
Mill. C. Pontoppidan. 2,160,169; May 30.
Mill and silage cutter, Convertible hammer. F. W. Brannon. 2,160,695; May 30.
Mold: *See*—
Ceramic mold.
Mold and the like, Foundry. W. W. Cooper. 2,160,645; May 30.
Molding compositions and molded articles from a natural horn, Production of thermosetting. S. Bakonyi. 2,159,981; May 30.
Monocalcium phosphate, Crystalline anhydrous. W. H. Knox, Jr. 2,160,700; May 30.
Monocalcium phosphate, Heat-treated. J. R. Schlaeger. 2,160,232; May 30.
Motor: *See*—
Synchronous motor.
Motor control system, Plural. A. Stubbs. 2,160,687; May 30.
Mounting: *See*—
Ophthalmic mounting. Window mounting.
Resilient mounting.
Mounting arrangement for a high intensity light source. H. de Jong, J. Bergmans, and W. Kortenray. 2,160,648; May 30.
Mounting for electron discharge device. J. P. Laico. 2,160,478; May 30.
Mouse and rat trap. O. R. Booth. 2,160,717; May 30.
Movement of a character-bearing web, Method of and apparatus for controlling. D. F. Newman. 2,160,530; May 30.
Muff for wind instruments. D. F. Rupert. 2,160,229; May 30.
Net, Folding fish landing. C. J. Garrett. 2,160,584; May 30.
Noise, Reduction of W. R. Koch. 2,160,073; May 30.
Nut blanks, Method and machine for making capped. H. Rosenberg. 2,160,087; May 30.
Nut runner. J. E. Olson and L. A. Amtsberg. 2,160,622; May 30.
Odometer, Printing. J. F. Ohmer. 2,160,032; May 30.
Oil, Cracking hydrocarbon. S. Tijmstra. 2,160,580; May 30.
Oil polymers, Stabilizing fatty. E. Eichwald. 2,160,572; May 30.
Oil Wells, Process and apparatus for cementing. P. S. Pustmueller. 2,160,228; May 30.
Oils, Fractionating mineral. B. S. Greensfelder and M. E. Spaght. 2,160,573; May 30.
Oils into gasoline, Conversion of hydrocarbon. R. F. Ruthruff. 2,160,286; May 30.
Oils, Treating hydrocarbon. H. E. Drennan. 2,160,249; May 30.
Ophthalmic instrument. W. C. Harper. 2,160,359; May 30.
Ophthalmic mounting. H. F. Shindel. 2,160,627; May 30.
Ores, Treatment of aluminum. I. Hunyady. 2,160,148; May 30.
Oscillation generation and control. C. W. Hansell. 2,160,655; May 30.
Oscillation generator, Electrical. G. B. Banks. 2,160,052; May 30.
Oven control. A. P. Chester. 2,160,125; May 30.
Oven for domestic ranges. T. E. Taylor. 2,160,764; May 30.
Oxides of amino acids. M. Engelmann. 2,159,967; May 30.
Oxygen liberating compositions. K. A. Gerson. 2,160,542; May 30.
Packages, Making sealed. D. E. Maxfield. 2,160,367; May 30.
Packaging machine. W. S. Reynolds. 2,160,518; May 30.
Packaging. T. C. Weltmer. 2,160,183; May 30.
Packer, Well. A. Pranger. 2,160,515; May 30.
Packing, Glass wool. A. D. Saborsky. 2,160,001; May 30.
Packing means. M. G. Scott. 2,160,292; May 30.
Padlock. H. E. Soref. 2,160,294; May 30.
Panel, Sliding roof. M. Marchenko. 2,160,366; May 30.
Panel structure for ranges, Top-front. T. E. Taylor. 2,160,765; May 30.
Paper equipment for cash registers. H. W. Clark. 2,160,539; May 30.
Paper fastener. E. S. Roscoe and F. W. Ackerman. 2,160,564; May 30.
Paper stuffing machine. J. Hartman and J. G. Campbell. 2,159,987; May 30.
Pencil clip, Ring binder. F. S. Schade. 2,160,392; May 30.
Penholder for inkstands. E. J. Huott. 2,160,661; May 30.
Perforate table. W. F. Ohme. 2,160,031; May 30.
Permutation lock H. Herbst. 2,160,698; May 30.
Phase modulation. G. L. Usselman. 2,160,465; May 30.
Photoelectric tube. A. J. Kling. 2,160,593; May 30.
Photographic composing machine. L. Meyer. 2,160,750; May 30.
Photographs, Method and device for obtaining or reproducing color. C. Nordman. 2,160,340; May 30.
Photoelectric relay. F. H. Shepard, Jr. 2,160,037; May 30.
Photographic line-justifying apparatus. S. A. Neidich. 2,160,277; May 30.
Physical condition, Controlling a. D. G. Taylor. 2,160,042; May 30.
Pickup. R. Dally. 2,160,793; May 30.
Pigment Pastes. K. Brodersen. 2,160,119; May 30.
Pipe, Apparatus and process for welding. J. G. Nicolson. 2,160,082; May 30.
Pipe covering. J. E. Walker. 2,160,009; May 30.
Pipe cutter, Outside. C. R. Edwards. 2,160,691; May 30.
Pipes, Method and apparatus for forming. K. Butcher. 2,160,720; May 30.
Piston, Bellows. H. D. Coleman. 2,160,248; May 30.
Piston ring. J. J. Carroll. 2,160,379; May 30.
Piston ring. R. A. Hagen. 2, 160,654; May 30.
Piston ring remover. G. H. Feigh. 2,160,652; May 30.
Piston spreader. C. A. Marien. 2,159,975; May 30.
Piston, Welded two-piece light allow. R. M. Hazen and T. S. McCrae, Jr. 2,159,989; May 30.
Plasticizer for cellulose derivatives. C. Ellis. 2,160,133; May 30.
Plate and rail clip combination, Tie. T. Ryan. 2,160,344; May 30.
Plate for watt-hour meters, Balancing. S. S. Green. 2,160,416; May 30.
Polyiodo derivatives of acylamino acids and their salts and making the same. M. Dohrn and P. Diedrich. 2,160,413; May 30.
Polymer composition. R. Rosen and R. M. Thomas. 2,160,172; May 30.
Polymerization process. W. Bauer and H. Lauth. 2,160,054; May 30.
Portable bending brake. F. Peters. 2,160,441; May 30.
Pottery ware, Apparatus for the manufacture of. W. J. Miller. 2,160,483; May 30.
Power attachment for lawn mowers. A. R. Cooper. 2,160,259; May 30.
Power drive. H. L. Turney. 2,160,447; May 30.
Power driven tool, Portable. N. A. Lopez. 2,160,274; May 30.
Power plant, Aircraft. N. C. Price. 2,160,281; May 30.
Power transmitting system. G. Kraemer and L. Bergeron. 2,160,385; May 30.

Pregnanolones and producing the same from pregnandiols. A. Butenandt. 2,160,719; May 30.
Press: *See*—
Printing press.
Pressure relief valve, Remote controlled. R. M. Parsons. 2,159,979; May 30.
Pressure system. J. L. Drake, Le R. L. Handy, and I. G. Fowler. 2,160,062; May 30.
Printing press. I. Tornberg. 2,160,527; May 30.
Printing press, Rotary. C. S. Crafts. 2,160,613; May 30.
Printing surface, Photomechanical. K. W. C. Webb. 2,160,242; May 30.
Propeller. T. B. Barnett. 2,160,323; May 30.
Propeller. E. T. Ward. 2,160,467; May 30.
Propeller for aircraft and the like. R. L. Levy. 2,160,745; May 30.
Protective apparatus. A. J. McConnell. 2,160,599; May 30.
Pulsator for milking machines. S. J. Erling. 2,160,651; May 30.
Pump: *See*—
Metering pump.
Pump or motor, Rotary. E. K. Benedek. 2,160,352; May 30.
Punch and stripper, Combined. C. C. Richard. 2,160,676; May 30.
Punch, Card. E. Roggenstein. 2,160,171; May 30.
Purger assembly. E. A. Weaver. 2,160,394; May 30.
Rack: *See* —
Book rack. Display rack.
Radiator valve, Stickproof. C. F. Buning. 2,160,536; May 30.
Radio apparatus. M. W. Kenney. 2,160,270; May 30.
Radio cabinet. H. T. Roberts. 2,160,283–4; May 30.
Radio receiver. F. Kreienfeld. 2,159,970; May 30.
Rail joint, Head-free. H. L. Lansing. 2,160,334; May 30.
Railway car. W. E. Wine. 2,160,450; May 30.
Ramming machine. G. H. Schleferstein. 2,160,462; May 30.
Ratchet mechanism, Double-acting. J. W. Price, Jr. 2,160,753; May 30.
Razor. O. V. Rodrigues. 2,160,370; May 30.
Razor with ribbon shaped blade, Safety. N. K. Fougner. 2,160,727; May 30.
Receptacle and closure therefor. A. L. Merolle. 2,160,704; May 30.
Reclaiming apparatus. T. A. La Brecque. 2,159,994; May 30.
Recording device, Self-winding. E. J. J. Henriksen. 2,160,734; May 30.
Recovery process. D. J. Loder. 2,160,575; May 30.
Rectifier system. L. J. Hruska. 2,160,070; May 30.
Reel: *See*—
Fishing reel.
Refrigerating apparatus. C. B. Boles. 2,160,453; May 30.
Refrigerating apparatus. C. F. Henney. 2,160,733; May 30.
Refrigerating apparatus for vending machines and the like. J. T. Smith. 2,160,760; May 30.
Refrigerating device. H. C. Williamson. 2,160,609; May 30.
Refrigerating system. W. W. Higham. 2,160,018; May 30.
Refrigerating unit. F. R. West. 2, 160,045; May 30.
Refrigeration. R. R. Candor. 2,160,470; May 30.
Register. A. S. Wheelbarger and W. G. Orth. 2,160,046; May 30.
Regulating system. C. G. Suits. 2,160,605; May 30.
Relay. W. Brandt. 2,160,056; May 30.
Renovator for neckties. D. Weisberger. 2,160,769; May 30.
Residues, Distilling. W. W. Kraft and W. J. Bloomer. 2,160,103; May 30.
Resilient mounting. C. M. Sloman and R. A. Merrill. 2,160,040; May 30.
Resin coatings and process producing the same, Vinyl. A. K. Doolittle. 2,160,061; May 30.
Resin, Sulphonamide. H. A. Bruson and J. W. Eastes. 2,160,196; May 30.
Resinous composition and preparing same. M. M. Safford. 2,160,230; May 30.
Resistance device, Midget variable. C. J. Hathorn. 2,160,142; May 30.
Respirator. N. Schwartz. 2,160,317; May 30.
Ricer and press for fruits and vegetables, Potato. I. J. Fedje. 2,160,329; May 30.
Road building machine. F. E. Arndt. 2,160,193; May 30.
Road planer. F. E. Arndt. 2,160,376; May 30.
Rod: *See*—
Connecting rod.
Rod assembly for radial engines, Connecting. J. Schubert. 2,160,444; May 30.
Roller bearing, Double row. W. L. Scribner. 2,160,420; May 30.
Roof. O. V. Bumpas and W. G. Smith. 2,160,642; May 30.
Roof seaming machine. O. R. Maxfield. 2,160,336; May 30.
Roofs, Apparatus for raising. J. A. Stalfort. 2,160,446; May 30.
Rubber articles, Apparatus for vulcanizing. H. Karthaus. 2,160,312; May 30.
Rule, Extension. F. O. Carlson. 2,160,304; May 30.
Safety control for hydraulic brake appliances. M. B. Mayer and F. S. James. 2,160,747; May 30.
Safety device for automatic stopping of various electrically driven machines. J. C. Barefoot. 2,159,960; May 30.
Safety device for gas-line leakage. G. Maynard. 2,160,748; May 30.
Safety mechanism. A. F. Froussard. 2,160,137; May 30.
Sandals, Manufacture of. W. H. Bain. 2,160,377; May 30.
Sanitary appliance, Animal. E. I. Dunn. 2,160,473; May 30.
Saw, Composing room. F. W. Seybold. 2,160,110; May 30.
Saw, Lumber ripping. S. E. Thornton. 2,160,525; May 30.
Scraper and the like, Hydraulically operated. C. Le Bleu. 2,160,595; May 30.
Screen for cathode ray tubes. H. W. Kaufmann. 2,160,022; May 30.
Screw driver. M. A. West. 2,160,244; May 30.
Screw, Tapping. C. G. Olson. 2,160,706; May 30.
Seat: *See*—
Toilet seat.
Seat construction. T. A. McGregor. 2,160,482; May 30.
Seismic survey. J. P. Minton. 2,160,224; May 30.
Separator: *See*—
Centrifugal separator. Magnetic separator.
Separator. R. W. Goeb. 2,160,498; May 30.
Separator for adjusting the human vertebrae. A. C. Peckham. 2,160,709; May. 30.
Sewing machine. C. L. Knott. 2,160,384; May 30.
Sewing machines, Feed dog for. J. Brussell. 2,160,120; May 30.
Sewing machines, Looping mechanism for. A. H. De Voe. 2,160,355; May 30.
Sewing machines, Shoe. B. T. Levesque. 2,160,105; May 30.
Sewing machines, Tufting attachment for. W. F. Schmiedel. 2,160,090; May 30.
Sewing machines, Tufting attachment for. W. F. Schmiedel. 2,160,094; May 30.
Shade, Window. G. F. Brent. 2,160,118; May 30.
Sheet feeder. P. Cernak. 2,160,491; May 30.
Sheet folding mechanism. H. P. Clauberg. 2,160,198; May 30.
Sheet, Reinforced corrugated. H. W. Romanoff. 2,160,677; May 30.
Shield, Automobile glare. R. C. Jacobs. 2,160,504; May 30.
Shield for automobiles, Glare. R. C. Jacobs. 2,160,505; May 30.
Shield, Pedal-car. P. A. Hurtado. 2,160,546; May 30.
Shingles, Forming thick butt. R. W. B. Reade. 2,160,787; May 30.
Shocker, Grain. A. P. Lofstrand. 2,160,335; May 30.
Shoe, J. E. Quinn and H. F. Elliott. 2,160,625; May 30.
Shoe stiffener. J. C. Gulman. 2,160,590; May 30.
Shoes, Making. F. L. Ayers. 2,160,531; May 30.
Shoes, Making. J. J. Dudenhofen. 2,160,650; May 30.
Shoes, Making. J. E. Quinn and H. F. Elliott. 2,160,624; May 30.
Shutters, Two-way operating mechanism for. H. Pfannenstiehl. 2,160,390; May 30.
Shuttle motion for looms. J. F. Timberlake. 2,160,111; May 30.
Shuttle picking mechanism. A. Moessinger. 2,160,338–9; May 30.
Side band suppressed tuning for radio receiving systems. F. M. Schmidt. 2,160,566; May 30.
Sighting device, Range-finding and fire-correction. J. Fleux. 2,160,202; May 30.
Sign. E. A. Hector. 2,160,544; May 30.
Signal: *See*—
Highway signal.
Signal amplifying system, Variable gain. P. Weathers. 2,160,097; May 30.
Signaling system. R. B. Hearn. 2,160,017; May 30.
Signaling system. M. E. Krom. 2,160,507; May 30.
Silencer. P. Huber. 2,160,332; May 30.
Sled brake, Universal. H. F. Heffner and L. L. De Turk. 2,160,502; May 30.
Slide fastener. H. L. Kannor. 2,160,364; May 30.
Slider for separable fasteners. D. Marinsky and L. H. Morin. 2,160,160; May 30.
Slipper. E. J. Schreck. 2,160,756; May 30.
Slivers for use in padding, Making. J. A. Hunt. 2,159,992; May 30.
Sodium perborate, Preventing the caking of. J. S. Reichert and H. L. Potter. 2,159,999; May 30.
Solder bonding on coated metal surfaces, Process and flux for. N. J. Beno. 2,160,195; May 30.
Sole flexing apparatus. A. F. Bancroft. 2,160,114; May 30.
Solutions by evaporation or cooling, Apparatus for continuously crystallizing. R. Bonath. 2,160,533; May 30.
Solvents, Improving. P. K. Frolich. 2,160,136; May 30.
Sound-absorbing unit. E. H. Bedell and L. J. Sivian. 2,160,638; May 30.
Sound from record film, Reproduction of. O. K. Kolb. 2,160,506; May 30.
Soundproofing construction. C. A. Frische. 2,160,066; May 30.

Specific gravity indicator. G. H. B. West. 2,160,772; May 30.
Speed and load controlled brake. J. Canetta. 2,160,212; May 30.
Speed controlled brake. E. E. Hewitt. 2,160,207; May 30.
Speed controlled brake. D. L. McNeal. 2,160,208; May 30.
Spinning, twisting, and analogous machines. G. S. Whittemore. 2,160,010; May 30.
Splice bar. K. C. Johnson and R. C. Dunsmore. 2,160,310; May 30.
Spool and holder, Film. B. C. Roehrl. 2,160,710; May 30.
Spreader for building concrete walls. A. Spies. 2,160,489; May 30.
Sprinkler, Variable speed rotary. W. A. Buckner. 2,160,121; May 30.
Sput in a metal container. Mounting a. E. G. Melrath. 2,160,598; May 30.
Stand: *See*—
Business machine stand. Tool stand.
Standard, Field. G. A. Ross. 2,160,754; May 30.
Staple driving machine. F. Polzer. 2,160,514; May 30.
Starter, Engine. R. P. Lansing. 2,160,479; May 30.
Steam generating system. A. Clarkson. 2,160,644; May 30.
Steering mechanism for self-propelled vehicle. J. M. Colby. 2,159,983; May 30.
Stippler, Shielded roll. D. Welt. 2,160,570; May 30.
Stoker structure. R. E. Bressler. 2,160,641; May 30.
Stone working tool. G. A. Swenson. 2,160,568; May 30.
Stop motion, Electric warp. C. D. Brown. 2,160,776; May 30.
Storage and dispensing system. C. Spaeth. 2,160,683; May 30.
Straw spreader. J. Magee and L. G. Jain. 2,160,275; May 30.
Street, Double-decked grating-paved. B. A. Prince. 2,160,315; May 30.
Stretcher, Extensible carpet. W. A. Fanning. 2,160,134; May 30.
Strips to metal bodies, Securing mailing. H. A. Berliner. 2,160,258; May 30.
Structural steel element. A. I. Syak. 2,160,345; May 30.
Structural system. E. J. von Heidenstam. 2,160,791; May 30.
Stud assembly, Self-piercing. J. J. Veillette. 2,160,374; May 30.
Support: *See*—
Bed covering support. Windshield support.
Knock-down load support.
Support for radiating pipes. J. Van Vulpen. 2,160,689; May 30.
Supporting device. P. B. Bucky. 2,160,454; May 30.
Supporting structure for elevated railway tracks and elevating the tracks. H. E. Culbertson. 2,160,399; May 30.
Suspender, Stocking. A. S. Kinnucan. 2,160,156; May 30.
Sweat band. W. F. Sterne. 2,160,567; May 30.
Swimming device. A. Larson. 2,159,972; May 30.
Switch: *See* —
Flashlight switch. Lock switch.
Switch and tripping mechanism therefor, Electric. E. H. Taylor. 2,160,424; May 30.
Switch mechanism, Thermostatic. E. Zurcher. 2,160,634; May 30.
Synchronizing impulses, Producing rectangular shaped. J. Schmiack. 2,160,522; May 30.
Synchronous machines, Method and apparatus for synchronizing. F. H. Winter. 2,160,690; May 30.
Synchronous motor. F. Lux. 2,160,076; May 30.
Table: *See*—
Perforate table. Utility table.
Tag. C. A. Flood. 2,160,726; May 30.
Tank: *See*—
Vehicle tank.
Tank for combustible and inflammable materials, Storage. S. N. Hassan. 2,160,360; May 30.
Tanks, Manufacturing receiver. R. A. Sandberg. 2,160,680; May 30.
Tap wrench. K. A. Kuhn. 2,160,664; May 30.
Tape translator for card punching mechanism. W. F. Kelley. 2,160,152; May 30.
Target. A. A. Thompson. 2,160,425; May 30.
Telegraph system, Open Morse telegraph key alarm circuit. F. H. Hanley. 2,160,206; May 30.
Television apparatus. H. Harris. 2,160,434; May 30.
Temperature regulating system. W. J. King. 2,160,592; May 30.
Tension device for winding and like machines. G. N. Taylor and J. M. Ewart. 2,160,763; May 30.
Terminal, High potential. H. M. Hobart. 2,160,660; May 30.
Thermostat, Room. W. H. Hutchins. 2,160,740; May 30.
Thread dressing composition, Artificial. E. K. Gladding. 2,160,458; May 30.
Thermal accumulator. M. E. Johnston. 2,160,333; May 30.
Thermometer, Electric contact. E. N. Hurlburt. 2,160,404; May 30.
Thermostats, Purging. L. M. Persons. 2,160,280; May 30.
Thread under uniform tension, Mechanism for supplying a. R. S. Francis. 2,160,495; May 30.
Threads or yarns, Appliance for testing the tension of textile. S. Fürst. 2,159,969; May 30.
Tile, Roofing. F. H. Kawamura. 2,160,548; May 30.
Time recording device. L. T. E. Thompson and N. A. M. Riffolt. 2,160,006; May 30.
Tire, Pneumatic. K. Kramis. 2,160,219; May 30.
Toaster. J. Wertzheiser. 2,160,771; May 30.
Toasting machine. K. E. Bemis. 2,160,351; May 30.
Togging machine. C. H. Malben. 2,160,552; May 30.
Toilet seat, Sanitary. C. P. Crawford. 2,160,100; May 30.
Tool: *See*—
Machine tool. Stoneworking tool.
Power driven tool.
Tool for handling congealed materials. S. L. Kelly. 2,160,023; May 30.
Tool holder. O. N. Rikof. 2,160,369; May 30.
Tool stand. G. O. Kauss. 2,160,311; May 30.
Tool unit with feeding mechanism, Machine. E. J. Kingsbury. 2,160,217; May 30.
Toy aircraft. J. L. Bonanno. 2,159,963; May 30.
Toy, Multiple vehicle. R. J. Lohr. 2,159,974; May 30.
Track leveling device for farm tractors. A. E. Sutherland. 2,160,524; May 30.
Traffic controlling apparatus, Railway. P. N. Bossart. 2,160,640; May 30.
Trail builder, bulldozer and the like. C. Le Bleu. 2,160,596; May 30.
Train control system. L. R. Allison. 2,160,669; May 30.
Train control system. F. H. Nicholson. 2,160,668; May 30.
Transfer. J. Linderman. 2,160,665; May 30.
Transfer mechanism. S. F. Odell. 2,160,557; May 30.
Transmission. L. K. Jackson. 2,160,215; May 30.
Transmission, Hydraulic. M. Alpern. 2,160,612; May 30.
Transmission synchronizer. J. M. Simpson and S. O. White. 2,160,091; May 30.
Transmitter, Phase or frequency modulated. G. L. Usselman. 2,160,528; May 30.
Transmitter tape control device. J. A. Spencer. 2,160,463; May 30.
Trim panel assembly. A. P. Ball. 2,160,636–7; May 30.
Truck, Barrel. R. E. Sooter. 2,160,041; May 30.
Truck, Hand. J. E. Miller. 2,160,556; May 30.
Tube: *See*—
Electron discharge tube. Photoelectric tube.
Image dissector tube.
Tube rolling mill. M. Landrieu. 2,160,742; May 30.
Tube welding. J. H. Gettig and G. Spatta. 2,160,586; May 30.
Tube winding machine, Spiral. H. De Smith. 2,160,759; May 30.
Tube with photocell mosaic, Cathode ray. R. Möller and E. Ruska. 2,160,510; May 30.
Tubes by welding, Closing collapsible. G. Kellner. 2,160,617; May 30.
Tubing, Method and apparatus for covering thin wall. J. S. Reid. 2,160,108; May 30.
Turn-over device. G. W. Behnke. 2,160,581; May 30.
Typewriting and computing machine, Combined. H. L. Pitman. 2,160,487; May 30.
Typewriting machine. W. F. Helmond. 2,160,250–1; May 30.
Typewriting machine. J. A. B. Smith. 2,160,254; May 30.
Typewriting machine. R. G. Thompson. 2,160,297; May 30.
Umbrella frame. G. Schaefer. 2,160,231; May 30.
Utility table. M. E. Hiller. 2,160,144; May 30.
Valve: *See*—
Bypass valve. Pressure relief valve.
Fluid control valve. Radiator valve.
Gate valve.
Valve diaphragm. S. Schuloff. 2,160,757; May 30.
Valve for control of mediums under pressure. G. P. Haynes. 2,160,657; May 30.
Valve for core drills. A. C. Catland and J. H. Howard. 2,160,305; May 30.
Valve for internal combustion engines, Combined intake and exhaust. W. E. H. Rhein. 2,160,000; May 30.
Valve for tank vehicles, Distributor control. J. A. Jensen and R. B. Ziegler. 2,160,741; May 30.
Valve mechanism. P. S. Harper and G. F. Turner. 2,160,358; May 30.
Valve mechanism for compressors. R. C. Engelman. 2,160,401; May 30.
Valve stem. J. C. Crowley. 2,160,398; May 30.
Valve tappet, Hydraulic. W. D. Appel. 2,160,257; May 30.
Variable load brake. J. Canetta and J. B. Grosswege. 2,160,210–11; May 30.
Vehicle lock, Motor. M. Tibbetts. 2,160,629; May 30.
Vehicle seat. A. H. Haberstump. 2,160,015–16; May 30.
Vehicle tank. A. A. Kramer. 2,160,477; May 30.
Vehicle wheel. A. J. Cornelissen. 2,160,199; May 30.
Vehicle wheel. H. W. Kranz. 2,160,272; May 30.
Velocipede fork. B. J. Anderson. 2,160,247; May 30.
Ventilator, Closet. W. M. Hoffman. 2,160,213; May 30.
Vessel of the boiler type and producing same, Pressure. G. M. Trefts 3rd. 2,160,393; May 30.

Vibrator, Magnetostrictive. E. E. Turner. 2,160,007; May 30.
Viscosity analyzer. A. G. Thomas. 2,160,606; May 30.
Volume control system. J. M. Riddle, Jr. 2,160,788; May 30.
Wall and material, Sound-deadening. J. E. Graham and E. M. Lines. 2,160,729; May 30.
Wall construction, Furnace. A. C. Pacific. 2,160,512; May 30.
Wall structure. B. E. Balduf. 2,160,711; May 30.
Warper apparatus. B. Marcellus. 2,160,024; May 30.
Washer. M. D. Durham. 2,160,328; May 30.
Water cooler. R. E. Billings. 2,160,639; May 30.
Wave motion machine. H. Doerfler. 2,160,131; May 30.
Wear resisting alloy. R. W. Schlumpf. 2,160,290; May 30.
Web-splicing method. P. L. Tollison. 2,160,526; May 30.
Welding head, Universal. A. D. Wiley and W. H. Franzmann. 2,160,048; May 30.
Well casing extractor. J. C. Cizek. 2,160,472; May 30.
Well liners, casings, etc., Method and apparatus for repairing. E. B. Hall and A. L. Armentrout. 2,160,804; May 30.
Well pumping apparatus. C. N. Scott. 2,160,291; May 30.
Well strainer and making it. R. E. Swanson. 2,160,790; May 30.
Wheel: *See*—
Vehicle wheel.
Wheel and method of salvaging buffing wheels, Buffing. H. L. Hicks. 2,160,403; May 30.
Wheel aligner, Portable. C. S. Phillips. 2,160,226; May 30.
Wheel aligning apparatus. H. G. Holmes. 2,160,145; May 30.
Wheel suspension for vehicles, Independent. E. E. Watson. 2,160,608; May 30.
Wheels, Apparatus for flushing and repacking automobile. C. Jackson. 2,160,214; May 30.
Window and regulator, Rear quarter. E. G. Simpson. 2,160,038; May 30.
Window mounting. O. F. Graebner and F. J. Westrope. 2,160,068; May 30.
Windshield cleaner system. E. C. Horton. 2,160,737; May 30.
Windshield, Self-cleaning. R. Zeligman and D. Turin. 2,160,099; May 30.
Windshield support. F. W. Smith. 2,160,795; May 30.
Wiper, Window. E. C. Horton. 2,160,736; May 30.
Wiper, Windshield. L. Zaiger. 2,160,246; May 30.
Wire bending machine. F. J. Horton. 2,160,020; May 30.
Wire, Bowden. H. T. Anderson. 2,160,113; May 30.
Wire connector. S. N. Buchanan. 2,160,694; May 30.
Work rest. H. E. Balsiger. 2,160,378; May 30.
Wrapper, Quantity indicating. S. R. Millar. 2,159,997; May 30.
Wrench: *See*—
Impact wrench. Tap wrench.
Wringer, Clothes. C. T. Jamison. 2,160,363; May 30.
Yarn and fabric and making same. R. R. Sitzler and L. C. Holt. 2,160,178; May 30.

CLASSIFICATION OF PATENTS

ISSUED MAY 30, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Prints	9	No. 17,369 to No. 17,377	inclusive.
Reissues	10	No. 21,064 to No. 21,073	inclusive.
Patents	834	No. 2,156,257 to No. 2,157,090	inclusive.
Designs	103	No. 114,525 to No. 114,627	inclusive.
Total	1,270		

Transfer of Class

ORDER No. 3,464

U. S. PATENT OFFICE, *Washington, D. C., Apr. 13, 1939.*

The following transfer, to take effect Monday, April 17, 1939, is hereby ordered:

Class 30, Cutlery, from Division 55 to Division 24.

CONWAY P. COE,
Commissioner.

Interference Notice

U. S. PATENT OFFICE, *Washington, D. C., Apr. 1, 1939.*

Lehigh Silk Hosiery Mills, Inc., its assigns or legal representatives, take notice:

An interference has been declared by this Office between the application of Henry Mayer, 164–02 Thirty-third Avenue, Flushing, Long Island, N. Y., for registration of a trade-mark, and trade-mark registered August 20, 1929, No. 260,113, to Lehigh Silk Hosiery Mills, Inc., 294 Fifth Avenue, New York, N. Y. A notice of such proceeding sent by registered mail to said Lehigh Silk Hosiery Mills, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Lehigh Silk Hosiery Mills, Inc., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Disclaimers

1,855,196.—*William H. Offenhauser, Jr.*, New York, N. Y. SOUND REPRODUCTION. Patent dated April 26, 1932. Disclaimer filed March 31, 1939, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 15, 16, 17, 18, and 19 in said specification.

1,936,643.—*Dempson H. Reed*, Houston, Tex. OUTSIDE PIPE CUTTER. Patent dated November 28, 1933. Disclaimer filed April 8, 1939, by the patentee, and the assignee of one-half interest, *James S. Abercrombie.*

Hereby disclaim any interpretation of claim 5 that would include a mandrel which is not moved downwardly relative to the cutters while said mandrel is rotated in cutting the pipe.

Further disclaim any interpretation of claim 7 of the patent which does not include a structure acting to cause a cutting of the pipe by the cutting members as said members are advanced toward the hollow portion of the mandrel and to their inner positions.

2,033,699.—*Theodore W. Frech*, Shaker Heights, Ohio. ELECTRIC PROJECTION LAMP. Patent dated March 10, 1936. Disclaimer filed April 10, 1939, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claims 10, 11, 12, 13, and 14 of said Letters Patent.

2,084,387.—*Edward F. Dickieson, Jr.*, Detroit, Mich. CLUTCH OPERATING MECHANISM. Patent dated June 22, 1937. Disclaimer filed April 3, 1939, by the assignee, *Bendix Products Corporation.*

Hereby enters this disclaimer to claims 3, 4, 5, and 11 of said patent.

2,127,220.—*Harry J. Horn*, Lansing, Mich. VEHICLE WHEEL. Patent dated August 16, 1938. Disclaimer filed April 6, 1939, by the assignee, *Motor Wheel Corporation.*

Hereby enters this disclaimer to claim 7 in said specification.

Condition of Applications Under Examination at Close of Business April 15, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,852; Trade-Mark Division, 1,420. Oldest new case, July 30, 1938; oldest amended, Aug. 18, 1938.)
(The dates given are 1938 except where † indicates 1939)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting action in office	Oldest amended application awaiting action in office	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Nov. 12	Nov. 19	715
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Nov. 22	Nov. 1	667
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Feb. 17	†Feb. 15	283
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	†Jan. 3	Dec. 19	432
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Jan. 20	†Jan. 18	560
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 3	Oct. 3	1137
5725	7. JARBOE, C. G., Optics; Photography	Dec. 21	Oct. 28	900
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Dec. 2	Aug. 15	892
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 21	Dec. 6	636
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Dec. 24	†Jan. 16	636
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 4	†Jan. 6	460
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Oct. 14	Oct. 5	623
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 2	Oct. 19	707
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Jan. 26	†Jan. 25	448
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 7	Dec. 7	1121
5716	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 29	Nov. 3	760
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Nov. 23	Oct. 31	476
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 3	Oct. 7	566
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	†Jan. 6	Dec. 10	438
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 5	Dec. 24	305
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	†Jan. 3	Dec. 10	489
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Dec. 13	Dec. 13	782
7624	23. BUTTNER, W. J., Registers (part)	Oct. 4	Sept. 13	292
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 18	Feb. 6	377
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Dec. 31	†Jan. 3	426
5893	26. YOUNG, R. H., Electricity, Generation; Motive Power	Dec. 17	Dec. 15	619
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 14	Aug. 22	1021
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	†Jan. 3	Dec. 7	450
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Nov. 7	Nov. 30	633
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 26	Oct. 28	885
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	†Jan. 19	†Jan. 12	642
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Dec. 23	Dec. 1	422
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	†Jan. 3	Dec. 21	736
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	†Feb. 8	Dec. 16	293
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Dec. 23	Dec. 20	581
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Nov. 15	Nov. 4	530
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 7	Oct. 11	677
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Nov. 1	Nov. 8	573
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 20	†Jan. 19	506
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 15	Nov. 16	1417
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Oct. 21	Nov. 19	298
5882	42. CUTTING, H. O., Electric Signaling	Sept. 30	Oct. 4	630
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Dec. 5	Dec. 5	477
4087B	44. HARVEY, L. P., Refrigeration	Nov. 4	Oct. 27	632
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Nov. 28	Dec. 16	632
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Nov. 23	Nov. 18	679
6082	47. LOWE, E. R., Clutches; Brakes	†Jan. 21	Dec. 21	377
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Jan. 18	†Jan. 16	380
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 1	Sept. 10	992
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Oct. 15	Oct. 15	1230
5628	51. BACKUS, C. D., Radiant Energy (part)	†Jan. 9	†Jan. 9	696
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Dec. 31	Dec. 27	791
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Dec. 22	†Jan. 3	596
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 25	†Jan. 16	337
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	July 30	Aug. 18	1292
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Nov. 15	Nov. 15	1105
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 20	Dec. 10	444
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Dec. 29	Nov. 15	356
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	†Jan. 6	†Jan. 13	563
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Dec. 10	Dec. 10	471
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Nov. 8	Nov. 10	527
5621	62. PUGH, E. C., Games; Geometrical Instruments	†Jan. 19	†Jan. 20	404
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Dec. 3	Dec. 3	419
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Dec. 7	Dec. 6	880
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 22	Nov. 5	600
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†Mar. 10	†Mar. 27	1351
	{Labels and Prints	†Apr. 10	†Apr. 12	69
2605	Designs: H. H. KALUPY	†Mar. 2	†Mar. 16	931

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

COE, COMMISSIONER OF PATENTS, *v.* THE HOBART MANUFACTURING COMPANY

VINCENT W. CUNNINGHAM *v.* THE HOBART MANUFACTURING COMPANY

Nos. 7,221 and 7,222. Decided January 30, 1939

1. SUIT UNDER SECTION 4915 R. S.—COMMISSIONER NOT A PROPER PARTY IN INTERFERENCE CASES.

Where the Patent Office, in an interference between an application owned by The H. Co. and an application of C awarded priority to C, *Held* the Commissioner is not a proper party to a suit under sec. 4915 R. S. to review the decision on priority and *Held* that "The fact that The H. Co., in the interference proceedings, questioned C's right to make the claims does not affect his status, or that of the Commissioner, as a party."

2. SAME—COMMISSIONER NOT AN ADVERSE PARTY IN INTERFERENCE CASES—ACT OF MARCH 3, 1927 (U. S. C., TITLE 35, SEC. 72*a*) CONSTRUED.

Where The H. Co., a resident of Ohio, filed in the District Court of the United States for the District of Columbia a suit under sec. 4915 R. S. to review a decision of the Patent Office awarding priority to the party C, a resident of Illinois, and named as parties defendant the Commissioner and C, *Held* that the Commissioner is not an adverse party and the District Court of the United States for the District of Columbia does not have jurisdiction of the defendant C under the act of March 3, 1927 (44 Stat. 1394, U. S. C., title 35, sec. 72*a*). The clause "adverse parties residing in a plurality of districts" of the act "contemplates a plurality of parties adverse to plaintiff".

APPEALS from the District Court of the United States for the District of Columbia. Reversed.

Mr. R. F. Whitehead, and *Mr. W. W. Cochran* for the Commissioner of Patents,

Mr. Theodore A. Hostetler for Cunningham,

Mr. Greer Maréchal, *Mr. Lee B. Kemon* and *Mr. Lawrence B. Biebel* for The Hobart Manufacturing Company.

Before GRONER, *C. J.*, and STEPHENS and EDGERTON, Associate Justices

EDGERTON, *J.*:

Plaintiff, The Hobart Manufacturing Company, filed a bill in equity in the United States District Court for the District of Columbia, ostensibly under tit. 35, sec. 63, of the Code (R. S. sec. 4915), against Conway P. Coe, Commissioner of Patents, and Vincent W. Cunningham. The bill prayed that plaintiff and not Cunningham be adjudged entitled to a patent for improvements in a washing machine. It showed that the Patent Office had held interference proceedings, in which Cunningham's right to make the claims in suit had been questioned by plaintiff and upheld by the Office and priority had been awarded to Cunningham. It also showed that plaintiff is an Ohio corporation and Cunningham is a resident of Illinois.

The Commissioner of Patents moved to dismiss the bill as to him on the ground that he was not a proper party. Cunningham appeared specially, and moved to dismiss the bill because the Commissioner was not a proper party and because Cunningham was not within the jurisdiction of the court. Both motions were overruled, and special appeals to this court were allowed.

R. S. sec. 4915 provides:

"Whenever a patent on application is refused by the Commissioner of Patents, the applicant . . . may have remedy by bill in equity . . . and the court having cognizance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear. And such adjudication, if it be in favor of the right of the applicant, shall authorize the Commissioner to issue such patent on the applicant filing in the Patent Office a copy of the adjudication and otherwise complying with the requirements of law. In all cases where there is no opposing party a copy of the bill shall be served on the Commissioner. . . ."

[1] For the proposition that the Commissioner of Patents is a proper party, if not a necessary party, The Hobart Company relies on *Fessenden* v. *General Electric Company*, 10 F. Supp. 846, and *Drackett* v. *Chamberlain Company*, 10 F. Supp. 851, aff'd, 81 F.(2d) 866. Those cases hold that when an interference proceeding is terminated without a decision concerning priority, "the situation is the same as if there had been no interference proceeding";[1] the rival claimant "is not an adverse party within the meaning of section 4915, since there was no ruling that the trade-marks belonged to it",[2] and one claimant may not sue the other under section 4915, but must sue the Commissioner of Patents. That doctrine is not pertinent here. Here the interference resulted in the award of priority to Cunningham. The fact that The Hobart Company, in the interference proceedings, questioned Cunningham's right to make the claims does not affect his status, or that of the Commissioner, as a party. Cf. *Melling* v. *Gordon Form Lathe Company*, 14 F.(2d) 437.[3]

[2] The act of March 3, 1927 (44 Stat. 1394, U. S. C. tit 35, sec. 72*a* provides that, in suits brought under section 4915 in the District Court of the United States for the District of Columbia, "if it shall appear that there is an adverse party residing in a foreign country, or adverse parties residing in a plurality of districts not embraced within the same State, the court shall have jurisdiction thereof and writs shall, unless the adverse party or parties voluntarily make appearance, be issued against all of the adverse parties . . ."

It is contended that the Commissioner, if not a necessary party, is at least a proper and therefore an adverse party. But even if he were a proper party to a suit to review his award of priority, we think he would not be "adverse" within the meaning of the statute. The Commissioner has not the slightest interest adverse to plaintiff; whether plaintiff or defendant gets a patent, the Commissioner neither gains nor loses.

"To hold that the plaintiff by making a mere formal

[1] 10 F. Supp. 847.
[2] 81 F.(2d) 867.
[3] N. D. Ohio; appeal dismissed, 22 F.(2d) 1015.

party codefendant can compel the real defendant, the real party in interest, to come from any part of the United States and defend his rights in the District of Columbia would conflict with the general purpose of Congress as appears from the fact that ordinarily suits in the Federal courts must be brought in the district in which defendant resides." *Standard Oil Company (Indiana)* v. *Pure Oil Company*, 19 F. Supp. 833, 835. 28 U. S. C. § 112.

Plaintiff, The Hobart Company, contends that it and defendant Cunningham are themselves "adverse parties residing in a plurality of districts" within the meaning of the act of 1927. We cannot sustain the contention. We think the statute contemplates a plurality of parties adverse to the plaintiff. Had Congress meant, "if it shall appear that the plaintiff and defendant reside in different districts", Congress could easily have said so. Moreover, there was no occasion to allow suit in the District of Columbia whenever plaintiff and defendant reside in different districts. Suits under section 4915 against a single defendant have regularly been brought in the district of the defendant's residence, and may well be brought there. There is no good reason why Cunningham should be compelled to come, and bring his witnesses, from Illinois to the District of Columbia in order to defend this suit. Before the passage of the act of 1927, plural defendants who resided in different districts could not be sued under section 4915 in any court, because they could not be served in any district. *Armstrong* v. *Langmuir*, 6 F.(2d) 369; *Armstrong* v. *de Forest*, 13 F.(2d) 438.[4] The act of 1927 was passed to obviate this difficulty. *Hazeltine Corporation* v. *White*, 68 F.(2d) 715, 717.

We think both motions to dismiss should have been granted.

Reversed.

U. S. Court of Appeals for the District of Columbia

L. SONNEBORN SONS, INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE
v.
COE, COMMISSIONER OF PATENTS

No. 7,126. Decided March 20, 1939

1. INVENTION—CHANCE DISCOVERY.
"While it is true that invention may be the result of accident, and one seeking a patent thereon need not understand or be able to state the scientific principles underlying his claim, nevertheless, he is charged with knowledge of the state of the art and hence, even if he had no actual notice thereof and therefore was experimenting blindly, he cannot overcome the negation of invention which results from actual disclosure by the prior art."

2. SAME—MECHANICAL SKILL.
"Although genius is not required, the conception sought to be protected by patent must be the result of more than 'mere exercise of the skill of the calling and not one plainly indicated by the prior art'."

3. PATENTABILITY—LUBRICATING COMPOSITION AND METHOD OF MODIFYING CHARACTERISTICS OF MINERAL OIL.
Certain claims for a lubricating composition and certain claims for a method of permanently modifying the fluid characteristics of paraffine-based mineral oil *Held* unpatentable over the prior art.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

[4] Cert. denied. 273 U. S. 734.

Mr. Charles S. Grindle and *Mr. Joseph V. Meigs* for Sonneborn.

Mr. R. F. Whitehead for the Commissioner of Patents.

Before GRONER, Chief Justice, and MILLER and VINSON, Associate Justices

MILLER, *A. J.:*

The Patent Office rejected the claims in suit on the ground that they showed no invention over the prior art. Appellant, as assignee of the applicants, Silverman and Kessler, sued under section 4915, R. S. (35 U. S. C. A. § 63). The lower court found that:

"2. The Silverman and Kessler application discloses a process of treating a lubricating oil so as to lower the temperature point at which the oil ceases to flow ('the pour point'), said process consisting in adding to the oil a small amount of a metallic soap of a solid fatty acid, such as aluminum stearate, and an organic stabilizer such as triethanolamine. The bill contains both process and product claims. 3. The patent to Bennett et al., No. 1,806,735, discloses a process of lowering the temperature point at which the oil ceases to flow, in which there is added to the oil aluminum stearate and a high boiling alcohol, such as benzyl alcohol. 4. The articles on triethanolamine published in Industrial & Engineering Chemistry of January, 1929, and Oil, Paint and Drug Reporter, of August 6, 1928, state the constituents of commercial triethanolamine and many of its characteristics."

The court concluded therefrom that:

"1. The disclosure of the triethanolamine articles is sufficient to suggest the use of triethanolamine as a stabilizer in lieu of the alcohols mentioned in the Bennett et al. patent. 2. It was not invention to use triethanolamine with aluminum stearate in treating a lubricating oil to lower the temperature point at which such oil ceases to flow. 3. Plaintiff is not entitled to a patent on the Silverman and Kessler application containing the claims in suit which are claims 4, 10, 11, 12, 13, 15, 19 and 20 of that application. 4. The bill of complaint should be dismissed."

This appeal is from the decree dismissing the bill. Claims 4, 13, and 20 are typical of the eight here involved and are set out in the margin.[1]

On oral argument in this court, the Commissioner conceded that appellant's claims have both novelty and utility. The sole remaining question is whether there was invention. Appellant's argument in support of invention proceeds as follows: In spite of the best methods of refining, lubricating oil produced from paraffin-base petroleum contains a residuum of wax; this wax causes the lubricating oil to freeze at low temperatures; the freezing results from the crystallizing of the wax into a web-like or honeycomb form, thus solidifying the whole body of the oil; when the oil in the crankcase of an automobile becomes solidified and the motor is started, free lubrication is delayed, with resulting injury or destruction of the engine; much experimental work has been done and a number of methods have been used to overcome this difficulty; partial success had been achieved by adding gasoline or kerosene to the oil, but while these volatile dilutents produced a low "pour point" and temporarily prevented freezing, they evaporated when the oil became hot and also thinned the oil and reduced viscosity; the applicants in the present case, after years of research and experimentation, worked out a solution for the problem which consisted of adding to the oil a small percentage of metallic soap composed of a solid fatty acid, such as aluminum stearate, and a small percentage of triethanolamine; the metallic soap has the effect of insulating the wax crystals, thus preventing the webbing or honeycombing which would otherwise occur; the triethanolamine stabilizes this insulation of the wax crystals and prevents reversion to the objectionable crystallized form; tests showed that the oil so treated maintains stable fluidity at low temperatures for about four weeks.

[1] The claim of invention thus described is based on the theory of chance discovery. This is illustrated by the following questions and answers on cross-examination:

Q. You just picked up any old chemical you could find and tried it. A. Yes, sir. We tried various sorts of things that were entirely different from triethanolamine.
Q. And this being a new one, you just tried it? A. That is it, exactly. We get from time to time new things which come into the market. I have in my laboratory any number of things, and if we see them listed we order a sample and there it stands, and some day we think we will try this; and that is very common procedure in many laboratories. When we are in a pinch we will try anything.

While it is true that invention may be the result of accident, and one seeking a patent thereon need not understand or be able to state the scientific principles underlying his claim,[2] nevertheless, he is charged with knowledge of the state of the art and hence, even if he had no actual notice thereof and therefore was experimenting blindly, he cannot overcome the negation of invention which results from actual disclosure by the prior art.[3] It is necessary, therefore, for us to examine the prior art of lubricating oil production.

The Patent Office, in holding appellant's product and process devoid of invention, relied upon the following references: Bennett, No. 1,806,735, May 26, 1931; Hodson, No. 1,982,662, December 4, 1934; and an article entitled "Triethanolamine" appearing in "Emulsions" published by the Carbide and Carbon Chemicals Corporation in 1930. The Commissioner concedes that the latter two were too late to affect the claims in suit, and on this appeal relies solely upon the patent to Bennett and an advertisement published in August, 1928, by the Carbide and Carbon Chemicals Corporation entitled "Triethanolamine". He insists, however, that, in the light of the disclosures there made, Silverman and Kessler were "simply doing that which the art taught".

Appellant contends that the Bennett patent is not part of the prior art because it was not made public until after the filing of the application in the present case, and that in any event it cannot be combined with other references to defeat a claim of invention. This contention is answered adversely in our recent opinion in *Minnesota Mining and Manufacturing Co.* v. *Coe*, 100 F.(2d) 429, and in cases therein cited.

The Bennett patent described a process remarkably similar to that described by the applicants herein. In fact, in only one essential respect do they differ; i. e., the Bennett patent describes as stabilizers "high boiling alcohols and esters such as benzyl alcohol, cyclohexanol, glycerine and benzyl acetate", and later specifies that "any organic stabilizer . . . may be used". Applicants, on the other hand, specify—in two of their claims—"an organic stabilizer containing an amino [NH_2] group"; and, in the others, they specify "triethanolamine".

The important and decisive question in the case, therefore, is whether the substitution of "an organic stabilizer containing an amino group", or "triethanolamine", in place of "any organic stabilizer" constitutes invention. In this connection it should be noted that triethanolamine is itself an organic stabilizer. Although it had never been employed as a stabilizer for low pour-point lubricating oils prior to its use by Silverman and Kessler, its use as a substitute for alcohol was not new to the art. The advertisement by the Carbide and Carbon Chemicals Corporation appearing in 1928 disclosed that triethanolamine reacts "both as an organic base [alkaline] and as an alcohol"; that it combines "freely with fatty acids such as oleic and stearic to form soaps that are freely soluble not only in water but also in gasoline and oil"; and that it "can replace, in whole or in part, various organic alcohols such as phenol, or glycerine in the manufacture of synthetic resins".

Applicant Silverman testified that he made samples according to Bennett and upon testing them got the following results:

The pour point of the oil before applying Bennett's procedure was plus 30° F. In the case of the sample made with benzyl alcohol according to Bennett, after I had made the sample and tested it in the cold test bath, I found it was fluid down to −5° F. But, after 17 days in the ice box it had reverted to plus 15.

In the case of the sample made with glycerine according to Bennett, it had shown fluidity down to 0° F., but after 17 days ceased to flow at plus 25° F.

In the case of the sample made with cyclo-hexanol according to Bennett, it was fluid down to zero when I first made it, but after ten days in the ice box test it ceased to flow at plus 25° F.

In the case of the sample made with the benzyl acetate, according to Bennett, while it showed fluid down to zero when I first made it, after a period of ten days in the ice box it would not longer flow below 30° F.

In other words, adopting the applicant's testimony without more, we see that the Bennett process produced fluidity at low temperatures, stabilized for periods of from 10 days to 17 days according to the organic stabilizer used; while the Silverman process—using triethanolamine as the organic stabilizer—produced fluidity at low temperatures, stabilized for a period of 28 days.

[1] "4. A lubricating composition comprising not less than approximately 99% mineral oil, and oil soluble metal soap of a solid fatty acid, and an organic stabilizer containing an amino group.
"13. A lubricating oil consisting of about 99% paraffin-base oil, less than 1% aluminum stearate and triethanolamine and having the permanent property of fluidity when its temperature is reduced to zero degrees Fahrenheit.
"20. The method of permanently modifying the fluid characteristics of paraffin-base mineral oil at temperature around zero degrees Fahrenheit, which consists in intimately mixing therewith less than 1% of aluminum stearate and a lesser amount of triethanolamine."

[2] *Diamond Rubber Co.* v. *Consolidated Rubber Tire Co.*, 220 U. S. 428, 435, 436; *A. O. Smith Corp.* v. *Lincoln Electric Co.*, 6 Cir., 82 F.(2d) 226, 227.
[3] *Derby* v. *Thompson*, 146 U. S. 476, 481; *Mast, Foos & Co.* v. *Stover Mfg. Co.*, 177 U. S. 485, 493; *Pennington* v. *National Supply Co.*, 5 Cir., 95 F.(2d) 291, 295; *Ruben Condenser Co.* v. *Copeland Refrigeration Corp.*, 2 Cir., 85 F.(2d) 537, 541, cert. denied, 300 U. S. 665.

It seems apparent, therefore, that Bennett's step from the use of volatile dilutents, such as gasoline and kerosene, was a much more difficult step than Silverman's and that the latter was indeed an easy one,[4] clearly indicated by the revelations contained in Bennett, together with the description of triethanolamine contained in the publication referred to by the Commissioner.

"Especially in chemical and electrical experiments happy solutions may be reached by testing out variants reached merely by permutations of old elements. Possibly the patent law should protect such industrial achievements, but it does not; the work of the well-equipped laboratory which by trial and error checks off a series of formulas, may be the proper path of industrial advance, as the Germans found it to be before the Great War; but it does not demand what we call 'invention'."[5]

[2] [3] Although genius is not required,[6] the conception sought to be protected by patent must be the result of more than "mere exercise of the skill of the calling and not one plainly indicated by the prior art."[7] Thus, while it may be conceded that what Silverman and Kessler have accomplished is new and useful, we are of the opinion that it does not rise to the dignity of invention.[8]

"An invention is a new display of ingenuity beyond the compass of the routineer, . . ."[9]

and a mere

"showing of great industry in experimental research is not in itself sufficient to constitute invention, when the product thereof differs from those of the prior art only in degree and the result—no matter how useful it may be—is merely one step forward in a gradual process of experimentation."[10]

In the present case it is apparent that Silverman and Kessler, with the data relative to the chemistry of triethanolamine before them, did no more than could have been done by the ordinary chemist skilled in the art, working toward the same end under like conditions.[11] The substitution of triethanolamine for other organic stabilizers in the claimed invention was an "obvious adaptation" of materials plainly foreshadowed by the teachings of the prior art, and required for its accomplishment "only search or research".[12] *Mathieson Alkali Works, Inc.*, v. *Coe*, 99 F.(2d) 443, upon which appellant relies, presents a clearly distinguishable situation.

And, finally, even conceding, as appellant contends, that its product and process satisfied a need in the industry and was a commercial success, these facts may not be resorted to to prove invention where lack of invention is not in doubt. As was said by the Supreme Court in *Altoona Publix Theatres, Inc.*, v. *American Tri-Ergon Corp.*, 294 U. S. 477, 488:

". . . want of invention would have to be far more doubtful than it is to be aided by evidence of commercial success, indicating that it brought realization of a long-felt want."[13]

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE KEHL

No. 4,043. Decided January 23, 1939

[100 F.(2d) 193]

1. REJECTIONS—INOPERATIVE DEVICE AS A REFERENCE.
   An inoperative device may be a valid reference if the defect may be cured merely by mechanical skill not requiring invention.
2. PATENTABILITY—GAS BURNER.
   Certain claims for a gas burner *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. Charles C. Scheffler and *Mr. Eugene L. Greeneweald* (*Mr. Warren J. Willis* and *Mr. Alfred E. Page* of counsel) for Kehl.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

By appeal there is brought before us for review the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting as non-patentable over prior art cited eight claims numbered 21 to 28, inclusive, of an application for patent for a gas burner device. Several claims stand allowed.

All of the appealed claims are for structure. The assignments of error treat all the appealed claims as a group, and, in addition, error is specially assigned as to claims 27 and 28.

For illustrative purposes it is deemed sufficient to quote claims 21 and 28:

21. A gas burner comprising, in combination, a head having a gas inlet, a plurality of outlet passages, and a gas distributing chamber between said inlet and said passages; and a group of nozzles secured to said head and severally communicating with said outlet passages, at least one of said nozzles having a jointed portion adapted to permit universal angular adjustment of such nozzle and its axis laterally in all directions relatively to the axis of the outlet passage communicating with such nozzle and relatively to the axes of the other nozzles associated therewith, whereby the arrangement of such group of nozzles may be varied.

28. In combination, a head having an outlet passage; a nipple secured to said head and having a bore communicating with said passage; a tubular member having a freely movable end; an outlet tip secured to such freely movable end; said nipple and the other end of said tubular member having cooperating portions providing a ball-and-socket joint adapted to permit the adjustment of said tip and the free end of said tubular member laterally in all directions relatively to the axis of said bore; and adjustable means for clamping said other end of said tubular member to said nipple to retain said tip and tubular member in any one of the positions to which they may be adjusted.

The prior art references cited are: Tilley (British), 23,810, November 3, 1904; Trost, 1,359,128, November 16, 1920; Underwood et al., 1,739,929, December 17, 1929; Coutu, 1,936,499, November 21, 1933.

The following general statement as to appellant's gas burner is taken from the brief filed before us on his behalf:

The claimed invention consists of a group of nozzles connected to a common header, each nozzle including an intermediate jointed portion which permits substantially universal adjustment of the outlet tip of the nozzle with respect to the header. In addition, certain of the rejected claims include a clamping means for holding the outlet tip of the nozzle in adjusted relation with respect to the header.

In the decision of the Board it is said:

• • • Briefly described the device consists of a header or manifold to which are secured a plurality of nozzles by ball and socket joints so that the nozzles may be adjusted in different angular positions.

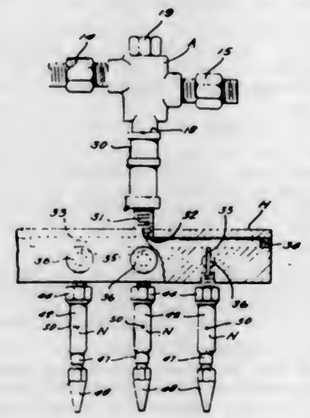
The Examiner rejected claims 21 to 24 on the ground that they "involve nothing patentable over Trost and Tilley". Claims 25 and 26, which are similar to 21–24, but, in addition, specify a ball-and-socket joint, he rejected, saying, in substance, with respect to the limitation embracing the joints, that the use of ball-and-socket joints is common in the gas burner art as illustrated in the patents to Coutu and Underwood et al., and holding that no invention was present in substituting such joints for the flexible joints shown by the patent to Tilley. As to claims 27 and 28, which specify clamping means (a locking nut hereinafter described), he held that the Underwood et al. patent shows an adjustable clamping means and said that—

"in substituting the Underwood joint for the flexible joint in Tilley in the combination shown in Trost, these claims are substantially met."

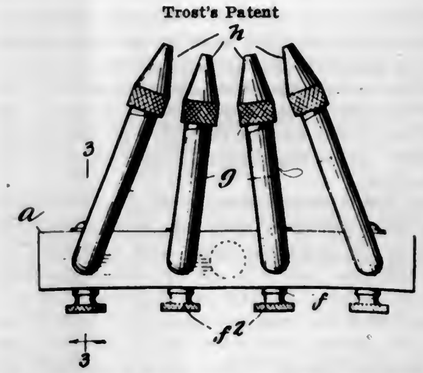
In its decision the Board mentioned specifically only the Trost and Underwood et al. patents, saying that the others "are deemed to be cumulative only and need not be referred to further".

Figure 2 of appellant's drawings is herewith reproduced along with Figure 2 of the drawings of the Trost patent.

Kehl's Application



Trost's Patent



In appellant's above drawing, the head may be identified by the letter H, the outlet passages by the numerals 35, the distributing chamber by the numerals 33, and the nozzles by the letter N. The nozzles are connected by universal joints which have rotatable lock nuts indicated by the numerals 44.

Pertinent features shown in the Trost drawing are a burner head, *a*, into which are screwed burner tubes, *g*, the ends of which (as shown in another figure) are bent to supply fuel to the burner nozzles, *h*. The patent teaches that by reason of the construction shown, the burner tubes, *g*, may be turned to any desired position, and the nozzles be separated or brought closer together as desired.

The Board, after its description of appellant's device above quoted, said:

The patent to Trost discloses a burner of the same type. Unfortunately the structure disclosed in this patent is one in which the nozzles cannot possibly be assembled in the manner described in the patent, for it is clear that they could not be screwed in the sockets of the manifold in the manner described. However, it does show the broad concept of making such nozzles capable of restricted adjustment. • • •

Based upon the foregoing, it is argued on behalf of appellant that the Trost device is inoperative and it is insisted that the Board erred in relying upon a patent covering an inoperative device, and also in holding that the Trost patent showed "the broad concept of making such (applicant's) nozzles capable of restricted adjustment".

[1] Much of appellant's brief is devoted to argument upon the question of the alleged inoperativeness of the Trost device, and numerous authorities are cited in support of the contention that an inoperative prior art device may not be relied upon as an anticipation. That this is a general rule may be conceded, but it is also quite well settled that an inoperative device may be a valid reference if the defect may be cured merely by mechanical skill not requiring invention. *In re Barsky*, 20 C. C. P. A. (Patents) 779, 781, 69 F.(2d) 192, 428 O. G. 518, and cases therein cited.

However, it seems to us that appellant does not correctly construe the Board's statement from which he deduces that inoperativeness of the Trost device is stated or conceded. We do not understand the Board's holding to be that the Trost device as shown is inoperative. Rather we understand its decision to mean as, in effect, it is interpreted in the brief of

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[4] *Kirsch Mfg. Co.* v. *Gould Mersereau Co., Inc.*, 2 Cir., 6 F.(2d) 793, 794.

[5] *Ruben Condenser Co.* v. *Copeland Refrigeration Corp.*, 2 Cir., 85 F.(2d) 537, 541, cert. denied, 300 U. S. 665. See also, *Standard Oil Development Co.* v. *James B. Berry Sons Co., Inc.*, 3 Cir., 92 F.(2d) 386, 387.

[6] *United Chromium, Inc.*, v. *International Silver Co.*, 2 Cir., 60 F.(2d) 913, 917, cert. denied, 288 U. S. 600.

[7] *Electric Cable Joint Co.* v. *Brooklyn Edison Co., Inc.*, 292 U. S. 69, 79; *Altoona Publix Theatres, Inc.*, v. *American Tri-Ergon Corp.*, 294 U. S. 477, 486; *Atlantic Works* v. *Brady*, 107 U. S. 192, 200.

[8] *Berlin Mills Co.* v. *Procter & Gamble Co.*, 254 U. S. 156, 166.

[9] *Kirsch Mfg. Co.* v. *Gould Mersereau Co., Inc.*, 2 Cir., 6 F.(2d) 793, 794; *Murphy* v. *Coe*, 99 F.(2d) 994, — App. D. C. —.

[10] *Minnesota Mining & Mfg. Co.* v. *Coe*, 99 F.(2d) 986, 989, — App. D. C. —. See also, *Railroad Supply Co.* v. *Elyria Iron & Steel Co.*, 244 U. S. 285.

[11] *Donner* v. *Sheer Pharmacal Corp.*, 8 Cir., 64 F.(2d) 217, 221, cert. denied, 290 U. S. 658; *Mills* v. *Coe*, 99 F.(2d) 992, — App. D. C. —.

[12] *Pick* v. *Coe*, 99 F.(2d) 985, — App. D. C. —; *Textile Machine Works* v. *Louis Hirsch Textile Machines, Inc.*, 302 U. S. 490, 498.

Mershon v. *Sprague Specialties Co.*, 1 Cir., 92 F.(2d) 313, 318, cert. denied, 304 U. S. 561: "Generally speaking, the mere substitution of one material for another will not amount to invention even when the new material is more effective." See *Goldman* v. *Polan*, 4 Cir., 93 F.(2d) 797, 799.

[13] *DeForest Radio Co.* v. *General Electric Co.*, 283 U. S. 664, 685; *Premier Machine Co.* v. *Freeman*, 1 Cir., 84 F.(2d) 425, 428, cert. denied, 299 U. S. 580; *Kaser Process Pie Co.* v. *Pie Bakeries of America, Inc.*, N. D. Ill., 50 F.(2d) 414.

the Solicitor for the Patent Office, that the method of assembling described in the patent is not possible. As has been indicated already, all the claims here involved are for structure, and the method of assembling the structural parts is not in issue. The decision, it may be remarked, does not use any expression suggesting inoperativeness of the structure shown.

[2] A fair interpretation of the Board's decision, as a whole, especially when read in connection with that of the Examiner (who says nothing of inoperativeness) which it affirms, is that the Trost patent discloses a device which shows tubes in a burner head, the tubes being capable of being turned to such positions that the nozzles of the tubes may be adjusted relative to each other as desired. The specification of the patent recites:

> • • • I provide means whereby • • • the burner tubes *g* may, as will be understood, be turned into any desired position, and the nozzles *h* separated or brought closer together as may be desired, and while I have shown and described the preferred form of my improvement, my invention is not limited to the details of construction herein shown and described, and changes therein and modifications thereof may be made, within the scope of the appended claims, • • •.

We think there was no error in the rejection based upon the patent to Trost.

With respect to the limitations in claims 25 and 26, specifying a ball-and-socket joint (also specified in claim 28), we agree with the tribunals below that since such joints are shown to be used in this art, as illustrated by the patents to Coutu and Underwood et al., no invention was involved in substituting them for the flexible joints disclosed by the patent to Tilley.

The special assignment of error respecting claims 27 and 28 is not specific in pointing out the limitations relied upon to lend patentability thereto, but it is fairly inferable from the Examiner's decision and the argument in appellant's brief that reference was had to the joint or adjustable clamping means, represented by the locking nut 44 above illustrated. The patent to Underwood et al. discloses a "gland or neck ring" which enters a "stuffing box" and which is secured to a conduit by stud bolts. We are unable to see wherein it required other than mere mechanical skill to substitute appellant's arrangement for that of Underwood et al.

The decision of the Board of Appeals is affirmed. Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,323,869, 1,400,171, J. L. Kraft, Process for treating cheese; 1,678,167, S. K. Robinson, Process of remaking cheese; Re. 15,648, E. E. Eldredge, Process of sterilizing cheese; 1,389,577, Carpenter & Eldridge, D. C., N. D. Ill., E. Div., Doc. 14462, *Kraft-Phenix Cheese Corp.* v. *Pure Cheese Corp. et al.* Dismissed Feb. 1, 1939.

1,344,457, A. Schroeder, Bung for metal barrels; 1,651,632, T. W. Rieke, Fitting for containers; 1,732,536, same, Method of positioning rings in the metallic wall of a container; 1,833,306, same, Barrel; 2,011,013, same, Sealing means, D. C., N. D. Ill., E. Div., Doc. 15061, *Rieke Metal Products Corp.* v. *Barrel Fitting & Seal Corp.* Decree dismissing bill for want of equity (patent invalid) Oct. 22, 1937. Decree affirmed Dec. 23, 1938.

1,377,023, B. S. Nelson, Lubricating device; 1,619,126, W. F. Hundemer, same, C. C. A., 3d Cir., Doc. 6793, *Stewart Warner Corp. et al.* v. *Universal Lubricating Systems, Inc.* Decree affirmed Feb. 9, 1939.

1,378,604. (See 1,721,663.) 1,389,577. (See 1,323,869.)

1,400,171. (See 1,323,869.)

1,471,347, W. B. Newkirk, Method of making grape sugar; 1,508,569, same, Grape sugar; 1,521,830, same, Manufacture of dextrose, filed Feb. 27, 1939, D. C., S. D. Iowa (Davenport), Doc. 11, *Corn Products Refining Co.* v. *Clinton Co.*

1,480,014, F. L. Scott, Self cleaning roller drill; 1,647,753, Scott & Wellensiek, Drill cutter; 1,856,627, H. W. Fletcher, Cutter for earth boring drill; 2,030,442, Garfield & Scott, Roller bearing bit; 2,011,084, F. L. Scott, Mounting for drill cutters; D. C., W. D. Okla. (Oklahoma City), Doc. E 1925, *Hughes Tool Co.* v. *Williams Iron Works Co.* Claims 1, 2, 3, and 4 of 1,480,014; claims 2, 3, 4, and 5 of 1,647,753, claims 1, 2, and 3 of 1,856,627; claims 6, 7, and 8 of 2,011,084, and claims 1 to 15 inclusive of 2,030,442 held valid and infringed; injunction Feb. 27, 1939.

1,497,543, N. K. Chaney, Adsorptive carbon and process of making same; 1,497,544, same, Adsorbent charcoal and process of making same, D. C., N. D. Ill., E. Div., Doc. 13520, *National Carbon Co., Inc.*, v. *The Western Shade Cloth Co.* Decree holding claims 14, 15, and 17 of 1,497,543, and claims 9, 11, and 12 of 1,497,544 valid and infringed, reversed by C. C. A. Oct. 29, 1936. Mandate of C. C. A. July 8, 1938.

1,497,544. (See 1,497,543.) 1,508,569. (See 1,471,347.)

1,521,830. (See 1,471,347.)

1,536,044, J. W. Swan, Method and means to facilitate the distribution of fuel in internal combustion engines; 1,636,721, same, Manifold, appeal filed Feb. 28, 1939, C. C. A. 4th Cir., Doc. 4454, *The Nash Motors Co.* v. *The Swan Carburetor Co.*

1,546,005. (See Re. 16,202.)

1,566,143, P. Kohloff, Spark plug and coil connector; 1,790,101, same, Electrical connector, filed Mar. 1, 1939, D. C., S. D. N. Y., Doc. 2/442, *P. Kohloff et al.* v. *Ford Motor Co.*

1,619,126. (See 1,377,023.) 1,636,721. (See 1,536,044.)

1,647,753. (See 1,480,014.) 1,651,632. (See 1,344,457.)

1,678,167. (See 1,323,869.)

1,721,663, A. Holzhauer, Jr., Heating attachment for windshields; 1,378,604, J. W. Murphy, Condensation preventing device; Re. 17,821, H. H. Steinman, Anti-frost device for windows, D. C., N. D. Ill., E. Div., Doc. 14951, *Holzhauer Products Corp.* v. *Continental Products, Inc.* Dismissed for want of prosecution Nov. 1, 1938.

1,732,536. (See 1,344,457.)

1,752,327. (See Re. 16,202.)

1,790,101. (See 1,566,143.)

1,826,581, A. Sprung, Street sign; 1,995,869, same, Sign frame support, filed Feb. 24, 1939, D. C., E. D. N. Y., Doc. 236, *Municipal Street Sign Co., Inc.*, v. *City Street Sign Co.*

1,833,306. (See 1,344,457.) 1,856,627. (See 1,480,014.)

1,878,293, 1,922,453, M. Popper, Pinking attachment for sewing machines; 1,909,346, 1,891,308, H. F. Gruman, Combined seaming and pinking machine, D. C., N. D. Ill., E. Div., Doc. 14618, *Lewis Invisible Stitch Machine Co.* v. *H. Korach et al.* On motion of plaintiff, bill dismissed without prejudice Feb. 14, 1939.

1,880,192, 1,963,348, 1,963,349, E. E. Boyce, Sewing machine; 1,984,772, W. C. Stewart, Combined looper and loop cutting attachment for sewing machine, filed Feb. 18, 1939, D. C., N. D. Ga. (Rome), Doc. 283, *The Boysell Co.* v. *San-Rog Spreads, Inc., et al.*

1,887,380, W. J. Polydoroff, Process and apparatus for standardizing magnetic cores; 1,940,228, same, Radio amplifying circuits; 1,978,568, Crossley & Neighbors, High frequency inductance; 1,978,599, same, Variable inductance device; 1,978,600, same, Permeability-tuned resonant circuit; 1,982,689, same, Magnetic core material; 1,982,690, same, Selective radio circuit (suit for declaratory judgment), D. C., N. D. Ill., E. Div., Doc. 14438, *Ferrocart Corp. of America* v. *V. S. Johnson et al.* Claim 38 of 1,982,690 held valid and infringed; claim 5 of 1,978,568, and claims 1 to 4 inclusive, 58, 74, 75, and 76 of 1,982,689 held invalid; 1,887,380, 1,940,228, 1,978,599, and 1,978,600 held not infringed. Counterclaim dismissed as to claim 5 of 1,978,568, and claims 1 to 4, 58, 74, 75, 76 of 1,982,689, and sustained as to claim 38 of 1,982,690, Aug. 7, 1936. Mandate of C. C. A. reversing decree of district court as to finding of validity and infringement of 1,982,690 Dec. 9, 1938. Decree of district court entered Dec. 13, 1938, pursuant to mandate.

1,891,308. (See 1,878,293.) 1,909,346. (See 1,878,293.)

1,922,453. (See 1,878,293.)

1,926,900, 1,964,911, E. C. Haas, Catamenial device, counterclaim for declaratory judgment filed Jan. 6, 1939, D. C., S. D. N. Y., Doc. 1273, *Tampax, Inc.*, v. *Wix Co.* Consent order of dismissal (original suit and counterclaim) (notice Feb. 24, 1939).

1,933,948, M. Weber, Fan wheel; Des. 91,002, same, Air circulator, D. C., N. D. Ill., E. Div., Doc. 13935, *M. Weber* v. *Berns Specialty Co. et al.* On motion of plaintiff bill dismissed Jan. 27, 1939.

1,940,228. (See 1,887,380.) 1,949,394. (See 1,983,984.)

1,963,348. (See 1,880,192.) 1,963,349. (See 1,880,192.)

1,978,568, Crossley & Neighbors, High frequency inductance; 1,982,690, W. J. Polydoroff, Selective radio circuit, D. C., N. D. Ill., E. Div., Doc. 14342, *Johnson Laboratories, Inc.*, v. *Meissner Mfg. Co. et al.* Claim 5 of 1,978,568 held invalid; claim 38 of 1,982,690 held valid Aug. 7, 1936. Mandate of C. C. A. reversed decree of district court in so far as it found 1,982,690 valid; affirmed in other particulars Sept. 9, 1938. Order of district court dismissed bill pursuant to mandate Dec. 13, 1938.

1,964,911. (See 1,926,900.) 1,978,568. (See 1,887,380.)

1,978,599. (See 1,887,380.) 1,978,600. (See 1,887,380.)

1,982,689. (See 1,887,380.)

1,982,690. (See 1,978,568 and 1,887,380.)

1,983,984 (*a*), 1,949,394, T. Martin, Automobile pit, filed Mar. 1, 1939, D. C. R. I., Doc. 17, *T. A. Martin et al.* v. *H. Lavur, Inc., et al.*

1,983,984 (*b*), T. Martin, Automobile pit, filed Feb. 14, 1939, D. C., S. D. N. Y., Doc. 2/367, *T. A. Martin et al.* v. *F. Kannen, Inc., et al.*

1,984,772. (See 1,880,192.) 1,995,869. (See 1,826,581.)

2,011,013. (See 1,344,457.) 2,011,084. (See 1,480,014.)

2,030,442. (See 1,480,014.)

2,069,871, S. O. Blanc, Cutter member for cleaning drain pipes; 2,111,527, same, Drain cleaner, filed Feb. 17, 1939, D. C., S. D. Iowa, C. Div., Doc. 16, *S. O. Blanc* v. *P. Weston et al.*

2,111,527. (See 2,069,987.)

2,143,677, R. H. Bradwell, Tufting machine; 2,143,679, 2,143,678, Baggett & Gordon, same, filed Feb. 18, 1939, D. C., N. D. Ga. (Rome), Doc. 281, *Polly Prentiss, Inc., et al.* v. *Lawtex, Inc.* Doc. 282, *Polly Prentiss, Inc., et al.* v. *R. G. Bush.* Doc. 284, *Polly Prentiss, Inc., et al.* v. *W. P. Pitman et al.* (*Sugar Valley Chenille Co.*).

2,143,678. (See 2,143,677.) 2,143,679. (See 2,143,677.)

2,146,160, 2,148,393, H. C. Schlicker, Hair-dressing tool, suit for declaratory judgment filed Mar. 1, 1939, D. C., S. D. N. Y., Doc. 2/448, *Tress-Roll Corp. et al* v. *Rollocurl Corp.*

2,148,393. (See 2,146,160.)

Re. 15,648. (See 1,323,869.)

Re. 16,202, 1,546,005, B. Briody, Roadway joint; 1,752,327, same, Dowel for concrete structures, D. C., N. D. Ill., E. Div., Doc. 13880, *Truscon Steel Co.* v. *American Concrete Expansion Joint Co.* Dismissed without prejudice Oct. 24, 1938.

Re. 17,821. (See 1,721,663.)

Re. 18,287, W. Ernst, Control mechanism for hydraulic presses; Re. 19,684, J. Young, Combination drilling valve and blow out preventer, filed Feb. 25, 1939, D. C., S. D. N. Y., Doc. P–21, *The Hydraulic Press Mfg. Co.* v. *Williams, White & Co.*

Re. 19,684. (See Re. 18,287.)

Des. 84,659. (See Des. 89,447.)

Des. 89,447, Morgan & Schnell, Automobile radiator ornament; Des. 90,750, C. L. Cislo, same; Des. 91,300, Schnell & Carlson, same; Des. 84,659, Schnell & Giuntini, same, D. C., N. D. Ill., E. Div., Doc. 13745, *General Motors Corp. et al.* v. *Franklin Die Casting Co. et al.* Patents held valid and infringed; injunction Jan. 6, 1938. Mandate of C. C. A. affirming decree of lower court Jan. 17, 1939.

Des. 90,750. (See Des. 89,447.)

Des. 91,002. (See 1,933,948.)

Des. 91,300. (See Des. 89,447.)

Des. 113,523, Des. 113,524, A. Philippe, Pin clip, filed Feb. 24, 1939, D. C., S. D. N. Y., Doc. 2/416, *Trifari, Krussman & Fishel, Inc., et al.* v. *Regina Novelty Corp.*

Des. 113,524. (See Des. 113,523.)

Adjudicated Patents

(D. C. Mass.) Grosjean patent, No. 1,344,503, for method of manufacturing composite soles for boots and shoes, claims 1 and 2 *Held* invalid. *Grosjean* v. *Panther-Panco Rubber Co.*, 26 F. Supp. 344.

(D. C. Mass.) Grosjean patent, No. 1,344,504, for sole for boots or shoes, claim 1 *Held* invalid. *Id.*

(C. C. A. N. J.) Hayduck patent, No. 1,449,103, for process for the manufacture of compressed yeast, claims 1 to 4, and 7 to 15 *Held* invalid. *Standard Brands* v. *National Grain Yeast Corporation*, 101 F.(2d) 814.

(C. C. A. N. J.) Hayduck patent, No. 1,449,105, for low-alcohol yeast process, *Held* invalid. *Id.*

(C. C. A. N. J.) Hayduck patent, No. 1,449,106, for low-alcohol yeast process, *Held* invalid. *Id.*

(C. C. A. N. J.) Hayduck patent, No. 1,449,109, for low-alcohol yeast process, *Held* invalid. *Id.*

(C. C. A. Pa.) Zerk patent, No. 1,475,980, for lubricating apparatus, claims 2, 3, and 5 *Held* invalid. *Stewart-Warner Corporation* v. *Rogers*, 101 F.(2d) 762.

(C. C. A. Ohio.) Short patent, No. 1,538,303, for transmission belt, claims 1 to 11, inclusive, and 13 to 16, inclusive, *Held* not infringed. *Dayton Rubber Mfg. Co.* v. *Stagnaro*, 101 F.(2d) 808.

(D. C. Mass.) Grosjean patent, No. 1,650,511, for heel for boots and shoes, claims 1, 2, and 4 *Held* invalid. *Grosjean* v. *Panther-Panco Rubber Co.*, 26 F. Supp. 344.

(C. C. A. N. J.) Corby and Bührig patent, No. 1,673,735, for process for the manufacture of yeast, *Held* invalid. *Standard Brands* v. *National Grain Yeast Corporation*, 101 F.(2d) 814.

(D. C. Mass.) Grosjean patent, No. 1,687,441, for tread material and method of making the same, claims 1 to 3 *Held* invalid. *Grosjean* v. *Panther-Panco Rubber Co.*, 26 F. Supp. 344.

(C. C. A. N. Y.) Cullmer patent, No. 2,060,283, for elevator car control, claims 2, 3, 4, 5, 17, and 20 *Held* not infringed. *Elevator Appliance Co. v. Brooks*, 101 F.(2d) 703.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,042,823, R. M. Bonn, Manifold book, decided March 21, 1939, claims 1 and 2.

Pat. 2,098,910, E. J. Blake, Remote control system, decided April 10, 1939, claim 29 and claims 1, 3, 5, 21, 22, 23, 24, 25, 26, 30, and 33, decided April 11, 1939.

Pat. 2,112,554, V. O. Beam, Automatic control for fuel burning apparatus, decided April 6, 1939, claims 1 and 2.

Pat. 2,139,362, R. J. Getty, Method and apparatus for manufacturing pottery articles, decided April 10, 1939, claims 1, 3, 5, 6, 9, 13, and 15.

Trade-Mark Registrations Canceled

254,960. Paper sanitary toilet-seat cover. Hal De Walde, Portland, Oreg. Registered April 2, 1929. Canceled April 14, 1939.

329,409. Spark plugs. Lehr Auto Supply Company, Inc., New York, N. Y. Registered October 29, 1935. Canceled April 14, 1939.

360,312. Hearing-aid devices and acoustic elements and accessories thereof. Sonotone Corporation, Elmsford, N. Y. Registered September 13, 1938. Canceled April 14, 1939.

361,888. Whiskey. Taylor & Williams Distilleries, Inc., Louisville, Ky. Registered November 1, 1938. Canceled April 14, 1939.

363,458. Radio receiving sets and combination radio receiving sets and phonographs. Continental Radio and Television Corporation, Chicago, Ill. Registered December 27, 1938. Canceled April 14, 1939.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 2, 1939

[VOL. 502. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 406,617. EAST AFRICAN TANNING EXTRACT COMPANY LIMITED, Nairobi, Kenya, Africa. Filed May 23, 1938.

MIMOSA
KENMOSA
EXTRACT

The words "Mimosa Extract" are disclaimed apart from the mark.

For Bark and Bark Extracts Used for Tanning Purposes.

Claims use since Nov. 15, 1937.

Ser. No. 406,825. THE PITTSBURGH & OHIO MINING COMPANY, Cleveland, Ohio. Filed May 27, 1938.

PANDA

For Coal.

Claims use since Jan. 29, 1938.

Ser. No. 412,657. N. V. CULTUUR MAATSCHAPPY SILOEWOK SAWANGAN, Samarang, West Java, Netherlands East Indies. Filed Nov. 12, 1938.

SILOEWOK-SAWANGAN

For Kapok, Kapok Seeds, and Rubber.

Claims use since May, 1912.

Ser. No. 414,559. FERRO ENAMEL CORPORATION, Cleveland, Ohio. Filed Jan. 6, 1939.

ULTRAPAQUE

For Porcelain Enamel Frit and Opacifiers for Porcelain Enamel.

Claims use since Dec. 30, 1938.

Ser. No. 415,794. PICKANDS, MATHER & COMPANY, Cleveland, Ohio. Filed Feb. 8, 1939.

SILVER SHIELD
COAL

Applicant disclaims the word "Coal" apart from the mark.

For Coal.

Claims use since May 1, 1937.

CLASS 2

Receptacles

Ser. No. 415,101. ASH-BRADFORD, INC., South Bend, Ind. Filed Jan. 23, 1939.

Freezer Fresh

For Paper Receptacles or Cartons Which are Sold Empty in the Trade.

Claims use since Sept. 19, 1938.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 412,529.. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Nov. 8, 1938.



Salon

The representation of the head of the woman is fanciful.
For Soap.
Claims use since July 15, 1937.

Ser. No. 415,718. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J. Filed Feb. 7, 1939.

HEIRLOOM

For Soap Powder for Bathing, Washing, and Cleaning Purposes, Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, and Shampoo Soaps.
Claims use since Jan. 17, 1939.

Ser. No. 415,720. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J. Filed Feb. 7, 1939.

HERITAGE

For Soap Powder for Bathing, Washing, and Cleaning Purposes, Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, and Shampoo Soaps.
Claims use since Jan. 17, 1939.

Ser. No. 416,360. ANTOINE DE PARIS, INC., New York, N. Y. Filed Feb. 24, 1939.



ANTOINE

For Soap.
Claims use since June, 1932.

Ser. No. 416,831. BEHR-MANNING CORPORATION, Troy, N. Y. Filed Mar. 9, 1939.

SPIRABAND

For Coated Abrasives.
Claims use since Feb. 15, 1939.

Ser. No. 416,835. BEHR-MANNING CORPORATION, Troy, N. Y. Filed Mar. 9, 1939.

SPIRABELT

For Coated Abrasives.
Claims use since Feb. 15, 1939.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 402,121. THE J. B. FORD COMPANY, Wyandotte, Mich. Filed Jan. 20, 1938.

Wyandotte
C.A.S.

For Modified Soda Ash Used to Standardize the Acidity in Cream Used for Manufacturing Purposes.
Claims use since Mar. 1, 1926.

Ser. No. 403,623. WHITTAKER LABORATORIES, INC., New York, N. Y. Filed Mar. 2, 1938.

COOPERETTES

For Cream-Like Spermicidal Substances for Treatment of Body Tissues.
Claims use since Mar. 29, 1935.

Ser. No. 413,241. CHARLES F. PONCY, doing business as The Absolute Co., Ottumwa, Iowa. Filed Nov. 28, 1938.

ABSOLUTE



The portrait is that of Dorothy Marie Poncy, daughter of applicant.
For Hair Shampoo, and Preparation for Dandruff.
Claims use since Nov. 8, 1938.

Ser. No. 413,260. WISHNICK-TUMPEER, INC., Chicago, Ill. Filed Nov. 4, 1938.



For Acetic Acid, Acetone; Alcohol, Denatured and Wood; Alumina Hydrate, Aluminum Stearate, Alums, Anhydrous Ammonia, Antimony Oxide, Antimony Sulphuret, Arsenic, Asbestol Filler, Astrolith, Barium Compounds, Barytes, Bentonite, Benzol, Benzole, Blanc Fixe, Bleaches, Borax, Cadmium Sulphide, Calciums, Carbon Bisulphide, Carbon Tetrachloride, Chromium Oxide, Copperas, Copper Oxides, Diatomaceous Earth, Diphenylguanidine, Disperso Carbon Black, Ferric Oxide, Fibrous Talc, Formaldehyde, Gilsonite, Glauber Salts, Hard Hydrocarbons, Iron Chloride, Iron Oxide, Kaolin, Kieselguhr, Lead Oleate, Lime, Litharge; Lithopones, Sunolith and Astrolith; Magnesia, Magnesia Carbonate, Magnesia Chloride, Magnesia Oxide, Magnesia Stearate, Magnesite, Manganese Oxide, Mica, Mineral Rubber, Nickel Salts, Nitrobenzole, Oleic Acid, Oxalic Acid, Palm Oil, Potash Bichromate, Potash Carbonate, Potash Caustic, Potash Chlorate, Pyridine, Rosin Oil, Sienna, Silica, Soapbark, Soda Acetate, Soda Ash, Soda Bicarbonate, Soda Bichromate, Soda Caustic, Soda Chlorate, Soda Fluoride, Soda Nitrate, Soda Nitrite, Soda Silicate, Soda Sulphide, Sodium Carbonate, Stearic Acid, Stearite, Sulphur, Sulphur Chloride, Talc, Titanolith, Titanium Dioxide, Triphenguanidine, Wood Flour, Zinc Oxide, Zinc Stearate.
Claims use since June, 1937.

Ser. No. 414,351. HINGECO VANITIES, INC., Providence, R. I. Filed Dec. 30, 1938.

"THE TRAMP"

The Compact that's been around and is going places

The word "Compact" is disclaimed apart from the mark.
For Vanity Cases Containing Rouge and Powder.
Claims use since June 24, 1938.

Ser. No. 414,799. HELENA RUBINSTEIN, INC., New York, N. Y. Filed Jan. 13, 1939.

Aquarelle

For Face Powder, Lipstick, Rouge, Mascara and Eye-Shadow.
Claims use since Dec. 23, 1938.

Ser. No. 414,890. POLK MILLER PRODUCTS CORPORATION, Richmond, Va. Filed Jan. 16, 1939.

VITAPETS

For Therapeutic Food Supplement for Dogs.
Claims use since Jan. 3, 1939.

Ser. No. 414,898. R. W. SHEFFIELD, Houston, Tex. Filed Jan. 16, 1939.

SHEF

For Ointment for Treatment of Skin Diseases.
Claims use since Jan. 6, 1939.

Ser. No. 414,954. CARRIE JAMES, doing business as Caro-Lynn, New York, N. Y. Filed Jan. 18, 1939.



No claim is made to the words "Vitamin A", "Carotene", "Tissue Cream", and "N. Y." apart from the mark.
For Tissue Cream.
Claims use since Jan. 7, 1939.

Ser. No. 415,042. LABORATOIRES ROMON SOCIÉTÉ À RESPONSABILITÉ LIMITÉE, Paris, France. Filed Jan. 20, 1939.

MAGNOGENE

For Magnesium Preparation Used in Cases Where Magnesium or Compounds of Magnesium are Therapeutically Indicated, as Follows—In Convalescence, Anemia, Liver and Digestive Troubles, Arthritis, Affections of the Kidneys and of the Prostate Gland, Skin Affections, and for Cancer Prophylaxis.
Claims use since March, 1935.

Ser. No. 415,125. KEWANEE LIQUIDS MANUFACTURING CO. Kewanee, Ill. Filed Jan. 23, 1939.

AVIREM

For Poultry Medicine for the Treatment of Coccidiosis, Cholera, Typhoid, and other Intestinal Infections.
Claims use since Oct. 24, 1938.

Ser. No. 415,239. NICHOLAS G. BALLARD, St. Francis, Ky. Filed Jan. 26, 1939.

NICK'S RHEUMATISM RUB

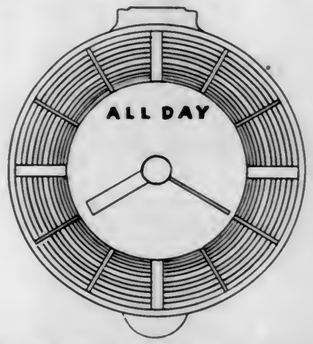


The words "Rheumatism Rub" are disclaimed apart from the mark. The picture is that of applicant.

For Liniment for Treating Muscular Aches and Pains.

Claims use since Dec. 28, 1938.

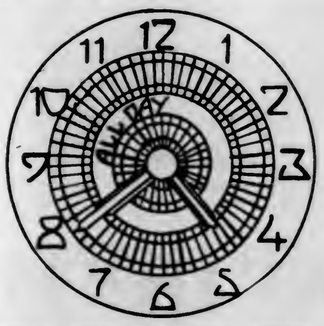
Ser. No. 415,467. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill. Filed Feb. 1, 1939.



For Lipstick, Rouge, Face Powder, Eyelash and Eyebrow Mascara, Creams for the Hands and Face; Preparations for Skin, Hair, and Finger Nails; and Perfumes.

Claims use since Nov. 20, 1936.

Ser. No. 415,468. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill. Filed Feb. 1, 1939.



For Lipstick, Rouge, Face Powder, Eyelash and Eyebrow Mascara, Creams for the Hands and Face; Preparations for Skin, Hair, and Finger Nails; and Perfumes.

Claims use since Nov. 20, 1936.

Ser. No. 415,485. CHARLES W. PARTEE, doing business as Select Products Company, Memphis, Tenn. Filed Feb. 1, 1939.



The drawing is lined for red. The term "Anti-Piles" is disclaimed apart from the mark. No claim is made to the words "Trade Mark."

For Antiseptic Preparations for the Treatment of Protruding, Bleeding, and Itching Hemorrhoids (Piles).

Claims use since Jan. 30, 1939.

Ser. No. 415,505. GAS-IT CORPORATION, New York, N. Y. Filed Feb. 2, 1939.

MALLETANE

For Gas for Cutting and Welding Purposes.

Claims use since Oct. 1, 1938.

Ser. No. 415,523. CLYDE NORMAN ROBERTS, doing business as Roberts Onirub Co., Huntington, W. Va. Filed Feb. 2, 1939.

ROBERTS ONIRUB

No claim is made to the surname "Roberts" apart from the mark.

For Salve as an External Application in Common Coughs and Colds and Muscular Soreness.

Claims use since Jan. 14, 1938.

Ser. No. 415,528. THE TAP-SOL COMPANY, St. Louis, Mo. Filed Feb. 2, 1939.

TAP-SOL

For Solution for Use in Removing Adhesive Tape, Corn Plasters, Porous Plasters, and Ointment.

Claims use since Sept. 28, 1938.

Ser. No. 415,573. AMERICAN FLAME PROOFING CORPORATION, Everett, Wash. Filed Feb. 4, 1939.



Applicant disclaims the words "It's Flame Proof".

For Chemical Compounds for the Treatment of Wood Products for Retarding Combustion.

Claims use since Jan. 25, 1939.

Ser. No. 415,639. DORALDINA COSMETICS, INC., New York, N. Y. Filed Feb. 6, 1939.

Doraldina

For Triple Strength Astringent, Acne Lotion, Dry Skin Lotion, Cold Cream, Cleansing Cream, Tissue Cream, Eye Lotion, Rouge Refill, Hand Beautifier, Leg Make-up, Eyelash Cream, Dry Rouge, Skin Cream, Liquid Skin Tonic, and Face Powder, Hand Lotion, Ice Lotion, Skin Freshener, Muscle Oil, Dry Skin Cream, Acne Cream, Dry Skin Cleansing Cream, Anti-Wrinkle Cream, Eye Cream, Lip Pomade, Cream Rouge, Eyeshadow.

Claims use since Oct. 11, 1926.

Ser. No. 415,681. WILLARD D. YORK, Rolling Hills, Calif. Filed Feb. 6, 1939.



Colonial House
HOLLYWOOD
TOILETRIES

The words "Hollywood" and "Toiletries" are disclaimed apart from the mark.

For Toiletries—Namely, Astringents, Astringent Cerates, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid and Solid Forms, Eyebrow and Eyelash Grower, Eye Lotions, Chemical Preparations Suitable for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Body Powders, Sachets, Hair Salves, Hair Tonics, Hair Oils, Shampoos, Bath Salts, Bath Oils, Bath Powders, Bath Crystals, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Creams, Nail Powders, Nail Bleaches, Nail Polishes, Nail Polish Removers, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Nov. 22, 1938.

Ser. No. 417,021. MAURICE LEVY, doing business as Mulvy, New York, N. Y. Filed Mar. 13, 1939.

S'il vous plait

For Perfume.

Claims use since Feb. 1, 1939.

Ser. No. 417,033. SINCLAIR G. STANLEY, doing business as Stanis, Chicago, Ill. Filed Mar. 13, 1939.

EVENING OF ROMANCE

For Perfume.

Claims use since Sept. 3, 1938.

Ser. No. 417,035. SINCLAIR G. STANLEY, doing business as Stanis, Chicago, Ill. Filed Mar. 13, 1939.

NIGHT OF LOVE

For Perfume.

Claims use since Feb. 27, 1936.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 374,198. KENSINGTON, INCORPORATED, New Kensington, Pa. Filed Jan. 28, 1936.



Kensington

The word "Kensington" is disclaimed apart from the mark.

For Ornamental Boxes and Trays for Tobacco and Cigarettes, and Ash Trays, of Base Metal.

Claims use since Oct. 1, 1934.

CLASS 10

Fertilizers

Ser. No. 416,669. WOODSON K. WOODS, doing business as Chaumiere Farms, Steelville, Mo. Filed Mar. 3, 1939.

POUL-A-NURE

For Soil Fertilizer Material.

Claims use since Feb. 8, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 416,649. GENERAL PRINTING INK CORPORATION, New York, N. Y. Filed Mar. 3, 1939.

LUMALITH

For Printing Ink.
Claims use since Feb. 4, 1939.

CLASS 12

Construction Materials

Ser. No. 414,305. N. V. HOLLANDSCHE DRAAD- EN KABELFABRIEK, Amsterdam, Netherlands. Filed Dec. 29, 1938.

OZURIET

For Thermal Insulating Sheet Materials and Corrosion Resistant Coverings in Sheet Form.
Claims use since 1932.

Ser. No. 416,423. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Feb. 25, 1939.

SPONGECOUSTIC

For Acoustical Sheet Material.
Claims use since Dec. 9, 1938.

Ser. No. 416,638. ASPHALT PROCESS CORPORATION, New York, N. Y. Filed Mar. 3, 1939.

APKOTE

For Emulsified Asphalt.
Claims use since Feb. 7, 1939.

Ser. No. 416,707. THE STANDARD LIME AND STONE COMPANY, Baltimore, Md. Filed Mar. 4, 1939.

STACRETE

For Tap Hole Cement or Mixture.
Claims use since Dec. 17, 1938.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 412,080. PARROT SPEED FASTENER CORPORATION, New York and Long Island City, N. Y. Filed Oct. 26, 1938.

TOT

For Machine Staples.
Claims use since May 4, 1938.

Ser. No. 415,587. DUKE MANUFACTURING CO., St. Louis, Mo. Filed Feb. 4, 1939.

THURMADUKE

For Food Warmers, Covers for Food Warmers, and Top Plates Therefor.
Claims use since Jan. 7, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 416,976. UNITED STATES SMELTING REFINING AND MINING COMPANY, Portland, Maine, and Boston, Mass. Filed Mar. 11, 1939.



For Zinc in Slabs or Pigs.
Claims use since Feb. 24, 1939.

CLASS 15

Oils and Greases

Ser. No. 413,802. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Dec. 13, 1938.

CARENGE

For Lubricating Oil.
Claims use since Oct. 31, 1938.

CLASS 16

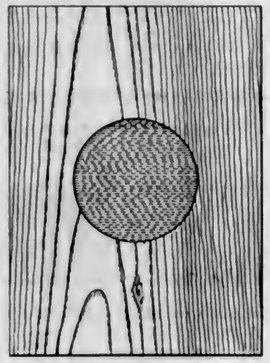
Paints and Painters' Materials

Ser. No. 410,842. MICHAEL F. MORAN, doing business as The Moran Paint Co., Dayton, Ohio. Filed Sept. 21, 1938.

Beauty-Lite Products

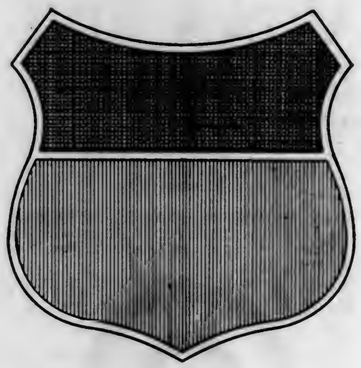
The words "Beauty" and "Products" are disclaimed apart from the mark as shown on the drawing.
For Paints, Such as House and Barn Paints.
Claims use since July 1, 1938.

Ser. No. 414,764. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa. Filed Jan. 13, 1939.



The circle is lined for silver.
For House Paint.
Claims use since Dec. 8, 1938.

Ser. No. 415,877. CONGOLEUM-NAIRN INC., Kearny, N. J. Filed Feb. 10, 1939.



The drawing is lined for black and red.
For Wax Preparations for Polishing Floor Surfaces of All Kinds.
Claims use since June 30, 1932.

Ser. No. 416,621. LEE R. TIMMONS, doing business as Charles Paint Research Co., Kansas City, Mo. Filed Mar. 2, 1939.

PA'SO

For Paint, Varnish, and Lacquer Softener.
Claims use since Sept. 30, 1938.

CLASS 17

Tobacco Products

Ser. No. 415,685. GEORGE C. DAWSON, Louisville, Ky. Filed Feb. 6, 1939.

GRADS

For Cigarettes.
Claims use since Jan. 27, 1939.

Ser. No. 415,919. SAMUEL SHUBS, doing business as Shubs Tobacco Company, New Haven, Conn. Filed Feb. 10, 1939.



Applicant disclaims the representation of the tobacco and container apart from the mark.
For Smoking Tobacco.
Claims use since Sept. 1, 1938.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 413,208. JOE W. HART, Cleveland, Ohio. Filed Nov. 28, 1938.



The words "Trailers" is disclaimed apart from the mark. The drawing is lined for red.
For Trailers.
Claims use since Aug. 17, 1934.

CLASS 20

Linoleum and Oiled Cloth

Ser. No. 416,313. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Feb. 23, 1939.

Tuf-o-leum

For Linoleum.
Claims use since July 29, 1938.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 385,052. MARS SIGNAL LIGHT CO., Oak Park, Ill. Filed Nov. 2, 1936.



For Electric Headlight and Signal Lamps for Street and Railway Crossings, Fire Trucks, Emergency Trucks and Automobiles, Railway Engines and Cars, Street-Cars, and Ambulances.
Claims use since June 1, 1924.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 415,920. SOUTHERN SADDLERY COMPANY, Chattanooga, Tenn. Filed Feb. 10, 1939.

MOCCASIN

For Golf Bags.
Claims use since Mar. 2, 1938.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 416,583. REMINGTON RAND INC., Buffalo, N. Y. Filed Mar. 1, 1939.

SPEEDAK

For Electric Dry Shavers.
Claims use since Dec. 5, 1938.

Ser. No. 416,594. AMERICAN CUTTING ALLOYS, INC., New York, N. Y. Filed Mar. 2, 1939.

ACALOY

For Cutting Tools for Turning, Milling, Drilling, Boring, Threading, and Planing Machines and Parts of Such Tools.
Claims use since Jan. 17, 1939.

Ser. No. 416,613. MALKIN-ILLION CORPORATION, Newark, N. J. Filed Mar. 2, 1939.

"MILLION DOLLAR"

For Vending Machines and Coin Devices Therefor.
Claims use since Nov. 19, 1936.

Ser. No. 416,688. THE HALL PLANETARY COMPANY, Philadelphia, Pa. Filed Mar. 4, 1939.

CLI-MIL

For Milling Machines and Parts Thereof.
Claims use since Dec. 27, 1938.

CLASS 24

Laundry Appliances and Machines

Ser. No. 415,494. L. B. BILLINGSLY, doing business as L. B. Billingsly Machinery & Supply Company, Dallas, Tex. Filed Feb. 2, 1939.

VITA ★ TONE

For Dry Cleaning Machinery.
Claims use since Dec. 25, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 415,962. C. SCHEUER COMPANY, New York, N. Y. Filed Feb. 11, 1939.



For Lockets, Jewel Boxes, Cuff Links, Sterling Flasks, Scarf Pins, Lavallieres, Brooches, Bracelets, Earrings, Tie Clasps, Guard Chains, Watch Fobs, Key Chains and Rings, Silver Tobacco Cases, Finger Rings, Ear Stubs, Watch Chains, and Cuff Buttons, Studs, Jewelry, and Dresser Sets, Consisting of Combs and Brushes, Made in Whole or in Part of Precious Metal or Plated with the Same.
Claims use since Jan. 28, 1939.

CLASS 31

Filters and Refrigerators

Ser. No. 415,492. WILLIAM MCKINLEY BAIRD, Chicago, Ill. Filed Feb. 2, 1939.

ICEBERG
REFRIGERATED
LOCKER SYSTEM

Applicant disclaims "Refrigerated Locker System" apart from the mark.
For Refrigerated Locker Units.
Claims use since Dec. 12, 1936.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 409,599. WEATHERALL ENGINEERS INCORPORATED, Providence, R. I. Filed Aug. 13, 1938.

TURBULATOR

For Fluid Fuel Burners.
Claims use since July 28, 1938.

Ser. No. 409,600. WEATHERALL ENGINEERS INCORPORATED, Providence, R. I. Filed Aug. 13, 1938.

WEATHERALL

For Fluid Fuel Burners.
Claims use since July 28, 1938.

Ser. No. 412,013. TRADE-WIND MOTORFANS, INC., Los Angeles, Calif. Filed Oct. 24, 1938.



For Fans and Blowers, Heating, Ventilating, and Cooling and Air Conditioning Units.
Claims use since May 22, 1933.

Ser. No. 412,014. TRADE-WIND MOTORFANS, INC., Los Angeles, Calif. Filed Oct. 24, 1938.

TRADE-WIND

For Fans and Blowers for Heating, Ventilating, and Cooling, and Air Conditioning Units.
Claims use since May 22, 1933.

Ser. No. 413,440. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 3, 1938.

COMBUSTROL

For Draft Regulating Damper for Boilers.
Claims use since Mar. 1, 1933.

Ser. No. 413,442. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 3, 1938.

THERMALIZER

For Draft Regulating Baffle for Boilers.
Claims use since Mar. 1, 1933.

Ser. No. 413,501. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 5, 1938.

COAL-EIGHTY AUTOMATIC

Applicant disclaims the words "Coal" and "Automatic" apart from the mark.
For Boilers.
Claims use since Jan. 9, 1936.

Ser. No. 413,502. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 5, 1938.

COKE-EIGHTY AUTOMATIC

Applicant disclaims the words "Coke" and "Automatic" apart from the mark.
For Boilers.
Claims use since Oct. 20, 1936.

Ser. No. 413,504. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 5, 1938.

OIL-EIGHTY AUTOMATIC

Applicant disclaims the words "Oil" and "Automatic" apart from the mark.
For Boilers.
Claims use since July 1, 1932.

Ser. No. 415,323. CENTURY ENGINEERING CORPORATION, Cedar Rapids, Iowa. Filed Jan. 28, 1939.

ZEPH-OIL-ATOR

For Oil and Gas Burning Furnace Units.
Claims use since Jan. 11, 1939.

Ser. No. 415,778. W. F. HIRSCHMAN CO. INC., Buffalo, N. Y. Filed Feb. 8, 1939.

HERCULES

For Forced Draft Roof Ventilators.
Claims use since Oct. 19, 1936.

Ser. No. 416,116. SHAPIRO & ARONSON, INC., New York, N. Y. Filed Feb. 16, 1939.

PLASTOLUX

For Lighting Reflectors and Shades for Electric Lamps.
Claims use since Jan. 28, 1939.

Ser. No. 416,253. THE FOLSOM COMPANY, Dallas, Tex. Filed Feb. 20, 1939.

CIRKLAIR

For Gas Stoves, Gas Ranges, Gas Heaters, and Gas Burners.
Claims use since June 1, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 417,206. HYMAN E. ENGERT, doing business as Victor Patch Co., Chicago, Ill. Filed Mar. 18, 1939.

TIRE LIFE

For Patches for Tires and Tubes and Rubber Solvent Used Therewith.
Claims use since Sept. 1, 1938.

Ser. No. 417,510. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Mar. 25, 1939.

SURFIDE

For Piston Rings.
Claims use since Mar. 2, 1939.

CLASS 37

Paper and Stationery

Ser. No. 402,296. FEDERATED MILLS, INC., New York, N. Y. Filed Jan. 25, 1938.



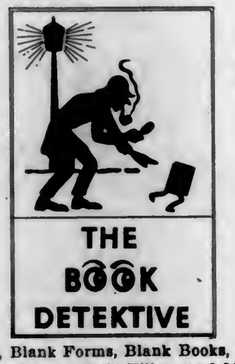
No claim is made to the representation of the container per se. The drawing is lined for shading only.
For Tissue Sheets and Paper Towels.
Claims use since Nov. 17, 1937.

Ser. No. 409,630. ST. REGIS PAPER COMPANY, New York, N. Y. Filed Aug. 15, 1938.

GARLAND

For Writing Papers—Namely, Notebooks, Notebook Fillers, Tablets, Composition Books, and Ream Papers.
Claims use since June 3, 1938.

Ser. No. 411,304. WILLIAM MORROW & COMPANY, INC., New York, N. Y. Filed Oct. 5, 1938.



For Pencils, Blank Forms, Blank Books, Writing Cases, Filing Cases and Book Shelf Fillers and Markers Sold as Units, and in Modified Forms on these Goods when Sold Individually.
Claims use since Aug. 17, 1938.

Ser. No. 415,283. COVERTEX COMPANY, Perth Amboy, N. J. Filed Jan. 27, 1939.

KODA-SEAL

The word "Seal" is disclaimed apart from the mark.
For Adhesively Coated Transparent Film-Sheets.
Claims use since July 21, 1938.

Ser. No. 415,292. INTERNATIONAL BROTHERHOOD OF PAPER MAKERS, Albany N. Y. Filed Jan. 27, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



The words "Union Made" are disclaimed apart from the mark.
For Papeteries, Bond, Ledger, Book, Envelope, Writing, Safety Check, and Coated Papers.
Claims use since Jan. 9, 1939.

CLASS 38

Prints and Publications

Ser. No. 405,861. J. W. WILCOX & FOLLETT CO., Chicago, Ill. Filed Apr. 29, 1938.

A Guide to Good Reading

For Publication Published Semi-Annually, the Same Being a Compilation of Approved, Accepted, and Graded Books.
Claims use since Feb. 1, 1933.

Ser. No. 413,265. FINANCIAL SUPERVISION, INCORPORATED, New York, N. Y. Filed Nov. 29, 1938.

SECURITY PILOT

For Periodical Publications Consisting of Weekly Letters Relative to Interpretation of Stock Market Activities.
Claims use since July 8, 1938.

Ser. No. 414,686. CHECKMASTER PLAN, INC., New York, N. Y. Filed Jan. 11, 1939.

CheckMaster CREDIT SERVICE

The words "Credit Service" are disclaimed apart from the mark.
For Advertising Pamphlets Issued from Time to Time and Sold to the Trade as Such.
Claims use since Dec. 12, 1938.

Ser. No. 415,369. MAUDE KING ALEXANDER, Winona, Minn. Filed Jan. 30, 1939.

By Elaine Allen

The name "Elaine Allen" is applicant's nom de plume in whose handwriting it is displayed. The word "By" is disclaimed apart from the mark.
For Feature Section Appearing in Periodical Publications.
Claims use since July 27, 1938.

Ser. No. 415,648. HOFFMAN-HARRIS, INC., New York, N. Y. Filed Feb. 6, 1939.

SWIMMING POOL DATA & REFERENCE ANNUAL

For Publication Published Annually and Devoted Primarily to News, Facts, Data, Equipment, and Accessories in Connection with the Swimming Pool Industry.
Claims use since Apr. 1, 1934.

Ser. No. 415,835. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Feb. 9, 1939.

ASK-IT-BASKET

For Scripts for a series of Commercial Radio Broadcasts Sold as a Publication in Trade.
Claims use since Oct. 5, 1938.

Ser. No. 415,931. OCCUPATIONAL INDEX, INC., Frenchtown, N. J., and New York, N. Y. Filed Feb. 11, 1939.

OCCUPATIONAL INDEX

For Monthly Bulletin.
Claims use since Jan. 1, 1936.

Ser. No. 415,939. THE EQUITY PRESS, INC., New York, N. Y. Filed Feb. 11, 1939.

THE MEDICAL EYE

For Quarterly, Illustrated Journal Containing News of General Interest for the Medical Profession.
Claims use since July 18, 1938.

Ser. No. 416,109. NEW YORK EVENING JOURNAL, INC., New York, N. Y. Filed Feb. 16, 1939.

LYNNE LORAYNE

For Newspaper Section.
Claims use since Jan. 29, 1939.

Ser. No. 416,200. NEA SERVICE, INC., Cleveland, Ohio. Filed Feb. 18, 1939.



The mark consists of the portrait of "Red Ryder", a fictitious character appearing from day to day in applicant's comic strip.
For Comic Drawings Published in a Series in Daily and Sunday Newspapers.
Claims use since Jan. 29, 1939.

Ser. No. 416,336. THE PERSONAL BOOK SHOP, INC., Boston, Mass. Filed Feb. 23, 1939.

The Personal Book Shop

For Books and Magazines.
Claims use since Apr. 1, 1925.

Ser. No. 416,493. ALLAN W. "BILL" WELLS, doing business as Wells Feature Syndicate, San Antonio, Tex. Filed Feb. 27, 1939.

CAVALCADE OF MEXICO

By "BILL" WELLS

Applicant disclaims the words "Mexico" and "Bill Wells" apart from the mark.
For News Column.
Claims use since Feb. 17, 1939.

Ser. No. 416,741. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Mar. 6, 1939.

The Magic Circle

For Trade Periodical.
Claims use since Feb. 15, 1939.

Ser. No. 416,937. ALLEGHENY LUDLUM STEEL CORPORATION, Brackenridge and Pittsburgh, Pa. Filed Mar. 11, 1939.

STEEL HORIZONS

For House Organ Published from Time to Time.
Claims use since Feb. 22, 1939.

CLASS 39

Clothing

Ser. No. 402,039. RAPHAEL WEILL & COMPANY, doing business as The White House, San Francisco, Calif. Filed Jan. 17, 1938.

Douglas Hall

The word "Douglas" is disclaimed except as shown.
For Clothing for Men and Boys—Namely, Suits, Overcoats, Sport Coats, and Hats.
Claims use since Aug. 23, 1937.

Ser. No. 403,516. I. MILLER & SONS, INC., Long Island City, N. Y. Filed Feb. 28, 1938.

Guildhall

For Ladies' Shoes Made of Leather, Fabric, and Combinations of These Materials.
Claims use since Sept. 4, 1933.

Ser. No. 404,580. NEPTUNE GARMENT COMPANY, Boston, Mass. Filed Mar. 28, 1938.

Aqua Guard



For Topcoats and Raincoats for Men, Women, Boys, and Girls.
Claims use since July, 1937.

Ser. No. 411,954. HIRSCH-WEIS MANUFACTURING COMPANY, Portland, Oreg. Filed Oct. 22, 1938.

White Stag

For Sport and Ski Clothing and Wearing Apparel for Men, Women, and Children—Namely, Coats, Jackets, Hats, and Caps.
Claims use since Mar. 1, 1925.

Ser. No. 414,635. MINNEAPOLIS KNITTING WORKS, Minneapolis, Minn. Filed Jan. 9, 1939.

MULLERETTES

For Overalls for Women.
Claims use since Dec. 13, 1938.

Ser. No. 414,816. BUTLER BROTHERS, Chicago, Ill. Filed Jan. 14, 1939.

LITTLE MAJESTY

For Infants' Wear—Namely, Bands, Berets, Bibs, Binders, Bloomers, Bobby Suits, Bonnets, Bootees, Buntings, Capes, Caps, Dresses, Christening Sets, Coat and Hat Sets, Coats, Coveralls, Creepers, Diapers, Flannelettes, Garters, Gertrudes, Gowns, Hose, Hospital Jackets, Kimonos, Lap Pads, Legging Sets, Longies, Mittens, Overalls, Pajamas, Panties, Pitchers, Play Suits, Bath Robes, Rubber Diapers, Rubber Pants, Sacques, Shoes, Shoulderettes, Sleeping Garments, Slips, Snow Suits, Boys' Suits, Sweaters, Underwear, and Vests.
Claims use since Sept. 24, 1938.

Ser. No. 415,199. BAKER CLOTHES INC., Philadelphia, Pa. Filed Jan. 23, 1939.

Tropic-Tweed

The word "Tweed" is claimed only in the association shown.
For Men's and Boys' Clothing Made of Woven Fabrics—Namely, Suits, Coats, Vests, Trousers, Overcoats, and Dress Suits.
Claims use since Nov. 26, 1938.

Ser. No. 415,713. GIMBEL BROTHERS, INC., New York, N. Y. Filed Feb. 7, 1939.

Topper Fashions

The word "Fashions" is disclaimed except as shown.
For Women's Shoes of Leather and Fabric and Combinations Thereof.
Claims use since Dec. 28, 1938.

Ser. No. 415,762. CABLE RAINCOAT COMPANY, Boston, Mass. Filed Feb. 8, 1939.

The Daytona

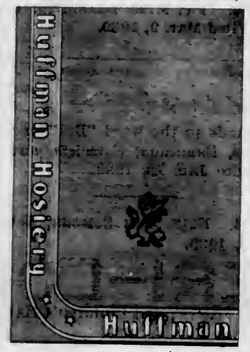
For Summer Sportwear—Namely, Men's and Women's Suits, Trousers, Skirts, Jackets, Coats, and Raincoats.
Claims use since January, 1898.

Ser. No. 415,933. BARMON BROTHERS COMPANY INC., Buffalo, N. Y. Filed Feb. 11, 1939.

barbette

For Frocks for the Use of Women, Misses, and Children.
Claims use since Dec. 10, 1938.

Ser. No. 416,012. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C. Filed Feb. 14, 1939.



The drawing is lined for maroon and blue. No claim is made to the word "Hosiery" apart from the mark.
For Men's and Ladies' Hosiery.
Claims use since Jan. 31, 1939.

Ser. No. 416,182. ARTHUR W. DUFF, Brockton, Mass. Filed Feb. 18, 1939.

Castle Craig

No claim is made to the surname "Craig" apart from the mark.
For Men's, Women's, and Children's Coats and Sweaters.
Claims use since Jan. 1, 1936.

Ser. No. 416,386. SALFAIR, INC., New York, N. Y. Filed Feb. 24, 1939.

Glamour HATS

The word "Hats" is disclaimed.
For Women's Hats.
Claims use since Feb. 20, 1939.

Ser. No. 416,513. KAYLON, INC., New York, N. Y. Filed Feb. 28, 1939.

DEMI-JAMS

For Men's, Women's, and Children's Pajamas.
Claims use since September, 1938.

Ser. No. 416,740. PANTHER-PANCO RUBBER CO., INC., Chelsea, Mass. Filed Mar. 6, 1939.

DURAKORK

For Composition Soles of Rubber Compound and Cork.
Claims use since Feb. 13, 1939.

Ser. No. 416,753. WINSHIP-BOIT COMPANY, Wakefield, Mass. Filed Mar. 6, 1939.

Tummy Tucker

For Girdles and Pantie Girdles.
Claims use since Nov. 17, 1938.

Ser. No. 416,846. FAY-MISS BRASSIERE CO. INC., New York, N. Y. Filed Mar. 9, 1939.

Slumba-Bra

No claim is made to the word "Bra" except as shown.
For Brassières, Bandeaux, Corselets, and Girdles.
Claims use since Jan. 16, 1939.

Ser. No. 416,923. ELIZABETH SCHOEN, New York, N. Y. Filed Mar. 10, 1939.

PERI-LON

For Women's, Misses', and Children's Hats.
Claims use since Mar. 8, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 403,556. O'HARA, LEVY & MAHON INC., New York, N. Y. Filed Mar. 1, 1938.



'LO MAC FABRICS

No claim is made to the word "Fabrics" apart from the mark.
For Piece Goods, Comprising at the Present Time Drapery Sateens, Drapery Burlap, Various Fabrics Used in the Manufacture of Corsets and Brassières (Comprising Specially Finished Sateens, Drills, Batistes, Nainsooks, and Marquisettes), Interlining, and Nainsook.
Claims use since Feb. 11, 1938.

Ser. No. 415,109. MURRAY DRUCK, New York, N. Y. Filed Jan. 23, 1939.

"House Beautiful"

CURTAINS FOR DECORATIVE HOMES

The words "Curtains for Decorative Homes" are disclaimed apart from the mark.
For Curtains, Drapes, Spreads, and Curtain and Drapery Piece Goods Made from Cotton, Rayon, Silk, Satin, Linen, and Damask.
Claims use since Dec. 15, 1937.

Ser. No. 416,399. EDWIN & LOUIS BRY, INC., New York, N. Y. Filed Feb. 25, 1939.

ROSEBOWL COATING

The word "Coating" is disclaimed apart from the mark.
For Woolen and Worsted Textile Fabrics in the Piece.
Claims use since Nov. 29, 1937.

Ser. No. 416,457. CROMPTON COMPANY, West Warwick, R. I. Filed Feb. 27, 1939.

ROYAL MOUNTIE

For Corduroy Fabrics in the Piece.
Claims use since Feb. 10. 1939.

Ser. No. 416,531. FOLKER FABRICS, INC., New York, N. Y. Filed Mar. 1, 1939.

Melloweave

For Textile Fabrics in the Piece of Silk, Rayon, and Combinations Thereof.
Claims use since March, 1935.

Ser. No. 416,612. W. S. LIBBEY COMPANY, Lewiston, Maine. Filed Mar. 2, 1939.



For Blankets and Cotton and Wool Mixtures of Piece Goods.
Claims use since Dec. 5, 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 404,317. THE MARTIN BROTHERS ELECTRIC CO., Cleveland, Ohio. Filed Mar. 21, 1938.

MARATHON

For Electric Hair Driers.
Claims use since Feb. 1, 1938.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 416,590. WARWICK CLUB GINGERALE CO., INC., West Warwick, R. I. Filed Mar. 1, 1939.

SPEEDBALL

For Orange Dry Soda, Cream Soda, Grape Soda, Lemon and Lime Soda, Fruit Soda, Lime Rickey Soda, Coffee Soda, Root Beer, Orange Soda.
Claims use since Feb. 13, 1939.

Ser. No. 416,631. GRANDPA BRANDS COMPANY, Cincinnati, Ohio. Filed Mar. 1, 1939.



For Nonalcoholic Maltless Beverages Sold as Soft Drinks, and for the Concentrates Thereof.
Claims use since Jan. 19. 1939.

Ser. No. 416,946. H. E. BUTT GROCERY COMPANY, Harlingen and Corpus Christi, Tex. Filed Mar. 11, 1939.

H.E.B.

For Canned Citrus Juices for Beverage Purposes.
Claims use since Apr. 30, 1938.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 398,351. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla. Filed Oct. 11, 1937.

Valley Gold

For Canned Grapefruit, Canned Peas, Canned Tomato Juice, and Fruit Juices for Food Purposes.
Claims use since May 21, 1937.

Ser. No. 400,678. W. A. BAUER CO., Norristown, Pa. Filed Dec. 10, 1937.



W. A. BAUER CO

No claim is made to the name W. A. Bauer Co. apart from the mark.
For Canned Fruits and Vegetables.
Claims use since Nov. 23, 1937.

Ser. No. 405,562. THE MIDLAND FLOUR MILLING COMPANY, doing business as Newton Milling & Elevator Co., Kansas City, Mo. Filed Apr. 21, 1938.



Armor Clad

For Wheat Flour.
Claims use since Oct. 27, 1926.

Ser. No. 408,142. WELCH FRUIT PRODUCTS CO., Chicago, Ill. Filed July 1, 1938.



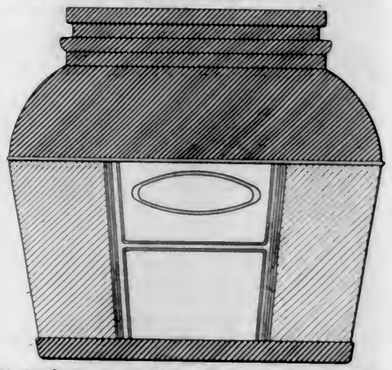
For Flavorings for Ice Creams.
Claims use since May 25, 1938.

Ser. No. 408,982. TRUMP PRODUCTS CORPORATION, New York, N. Y. Filed July 28, 1938.

Trump

For Packaged Sausage and Canned Ham.
Claims use since June 1, 1937.

Ser. No. 412,590. BURNHAM & MORRILL COMPANY, Portland, Maine. Filed Nov. 10, 1938.



The trade-mark consists of the design shown in the drawing covering a buff annular band on the lower conical portion of a brown jar, the lining representing the colors brown and buff. No claim is made to the representation of the jar or to the portion thereof lined for brown. Applicant, however, relinquishes no common law rights to the representation of the jar or container.
For Canned Beans in Glass Pots.
Claims use since Dec. 15, 1937.

Ser. No. 412,658. N. V. CULTUUR MAATSCHAPPY SILOEWOK SAWANGAN, Samarang, West Java, Netherlands East Indies. Filed Nov. 12, 1938.

SILOEWOK-SAWANGAN

"Siloewok" is a Javanese word meaning a low dark place in a forest. "Sawangan" is a Javanese word meaning a kind of whistle.
For Cocoa and Coffee.
Claims use since May, 1912.

Ser. No. 413,309. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Norwood, Cincinnati, Ohio. Filed Nov. 30, 1938. Act of Feb. 20, 1905, as amended June 10, 1938.

WHITEHOUSE

For Ice Cream.
Claims use since Feb. 1, 1923.

Ser. No. 413,615. BENSON FISH COMPANY, Chicago, Ill. Filed Dec. 9, 1938.

GOLDEN AMERICA

Applicant disclaims the term "America" apart from the mark.
For Canned Sardines and Salmon, and Bottled Marinated Herring and Spiced Gaffelbitar.
Claims use since Oct. 26, 1938.

Ser. No. 414,572. FRANKLIN LYMAN, doing business as F. Lyman Coffee & Tea Co., New York, N. Y. Filed Jan. 6, 1939.

Franklin Lyman

The mark consists of applicant's autograph.
For Coffee, Tea, and Spices.
Claims use since Dec. 6, 1938.

Ser. No. 414,883. NASH-FINCH COMPANY, Minneapolis, Minn. Filed Jan. 16, 1939.

OUR FAMILY

For Canned Fruits, Canned Vegetables, Canned Fruit Juice for Food Purposes, Canned Corn, Canned Spaghetti, Canned Cocoanut, Canned Tuna Fish, Canned Oysters, Canned Shrimp, Canned Sardines, Canned Salmon, Canned Soup, Canned Pork and Beans, Canned Hominy, Soup Mixture (Compound Consisting Principally of Dehydrated Vegetables and Cereals), Noodles, Spaghetti, Vermicelli, Macaroni, Tapioca, Tea, Coffee, Spices, Mustard, Vinegar, Catsup, Cocoa, Evaporated Milk, Gelatine Dessert, Salad Dressing, Olives, Pickles, Jam, Apple Butter, Peanut Butter, Fruit Preserves, Marmalade, Cane and Maple Syrup, Food Flavoring Extracts, Mince Meat, Marshmallows, Salt, Self Rising Pancake Flour, Crackers, and Breakfast Cereals.
Claims use as applied to canned vegetables, canned pork and beans, canned corn, canned salmon, canned oysters, food flavoring extracts, and spices since January, 1904; to canned fruits since on or about May 5, 1931; to canned fruit juice since on or about Feb. 16, 1937; to canned spaghetti since on or about Mar. 16, 1936; to canned tuna fish since on or about Mar. 5, 1936; to canned sardines since on or about Mar. 4, 1936; to canned shrimp since on or about Feb. 4, 1937; to canned soup since on or about Mar. 16, 1936; to canned hominy since on or about Aug. 22, 1935; to canned cocoanut since on or about July 6, 1930; to soup mixture since on or about Aug. 1, 1936; to noodles since on or about Mar. 13, 1932; to spaghetti since on or about Mar. 16, 1936; to vermicelli since on or about Feb. 1, 1929; to macaroni since on or about Mar. 4, 1932; to tapioca since on or about Apr. 2, 1935; to tea since on or about Mar. 2, 1929; to coffee since on or about Apr. 4, 1931; to mustard since on or about Feb. 1, 1929; to vinegar since on or about Mar. 2, 1931; to catsup since on or about Mar. 31, 1936; to cocoa since on or about Aug. 3, 1928; to evaporated milk since on or about July 10, 1936; to gelatine dessert since on or about Aug. 3, 1928; to salad dressing since on or about Mar. 2, 1931; to olives since on or about Apr. 10, 1937; to pickles since on or about June 3, 1937; to jam, fruit preserves and apple butter since on or about Sept. 10, 1930, to peanut butter since on or about Mar. 2, 1931; to marmalade since on or about Feb. 14, 1931; to cane and maple syrup since on or about Mar. 2, 1931; to mince meat since on or about Sept. 1, 1934; to marshmallows since on or about Aug. 1, 1937; to salt since on or about May 9, 1933; to self rising pancake flour since on or about Nov. 2, 1932; to crackers since on or about Apr. 2, 1934; and to breakfast cereals since on or about Mar. 5, 1932.

Ser. No. 415,276. HANOVER FOOD PRODUCTS CO., INC., Baltimore, Md. Filed Jan. 27, 1939.

DEL CAMPO

For Canned Soups and Vegetables.
Claims use since Jan. 4, 1939.

Ser. No. 415,500. W. A. DAVIS, doing business as W. A. Davis Milling Company, High Point, N. C. Filed Feb. 2, 1939.

ROYAL CROWN



For Wheat Flour.
Claims use since Jan. 3, 1939.

Ser. No. 415,834. THE CHURNGOLD CORPORATION, Cincinnati, Ohio. Filed Feb. 9, 1939.

Put Sunshine in Every Meal

For Oleomargarine.
Claims use since Nov. 15, 1938.

Ser. No. 415,872. BONDS—17 DOG FOOD COMPANY, Los Angeles, Calif. Filed Feb. 10, 1939.

Bonds 17 DOG FOOD

No claim is made to the words "Dog Food" apart from the mark.
For Dog Food.
Claims use since Aug. 3, 1938.

Ser. No. 415,886. ALBERT EHLERS, INC., Brooklyn, N. Y. Filed Feb. 10, 1939.



No claim is made to the words "A Coffee Beyond Comparison", "One Lb. Net", "Triple Blend", or "Arrostito Italiano Caffè" apart from the mark. The drawing is lined for green and yellow.
For Coffee.
Claims use since Jan. 10, 1924.

Ser. No. 416,199. J. J. MULLINS & CO., New York, N. Y. Filed Feb. 18, 1939.

Gold Seal

Applicant is the present owner of registration No. 55,876, registered Aug. 21, 1906.
For Butter.
Claims use since July, 1903.

Ser. No. 416,319. ELECTRICOOKER, INC., Newburyport, Mass. Filed Feb. 23, 1939.

OLIVE-KIST SALTED NUTS

The words "Salted Nuts" are disclaimed apart from the mark.
For Salted Nuts.
Claims use since Feb. 6, 1939.

Ser. No. 416,343. SHAWNEE MILLING COMPANY, Shawnee, Okla. Filed Feb. 23, 1939.



The words "Shawnee, Okla." and "Feed" are disclaimed apart from the mark.

For Poultry Feeds, Mill Feeds, Dairy Feeds, Horse and Mule Feeds.

Claims use since Feb. 3, 1939.

Ser. No. 416,585. S. M. A. CORPORATION, Chicago, Ill. Filed Mar. 1, 1939.



Applicant is the owner of United States trade-mark registration No. 135,195, dated Sept. 28, 1920.

For Food Specially Prepared for Infant Feeding.

Claims use since January, 1938.

Ser. No. 417,346. SAN FERNANDO HEIGHTS LEMON ASSOCIATION, San Fernando, Calif. Filed Mar. 21, 1939.

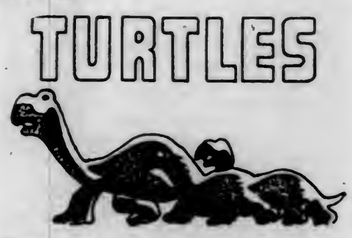
SILVER MOON

Applicant is the owner of trade-mark registration No. 120,640.

For Fresh Citrus Fruit.

Claims use since Mar. 1, 1915.

Ser. No. 417,361. DE MET'S, INC., Chicago, Ill. Filed Mar. 22, 1939.



For Candy.

Claims use since Nov. 25, 1938.

CLASS 47

Wines

Ser. No. 416,288. GRISTEDE BROS. INC., New York, N. Y. Filed Feb. 21, 1939.



For Wine.

Claims use since Sept. 17, 1936.

CLASS 48

Malt Beverages and Liquors

Ser. No. 412,969. GREENWAY BREWERY CO., INC., Syracuse, N. Y. Filed Nov. 19, 1938. Under 10-year proviso.

Greenway's

For Beer and Ale.

Claims use since 1840.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 417,596. HIRAM WALKER & SONS INC., Peoria, Ill. Filed Mar. 28, 1939.

SNOW TOP

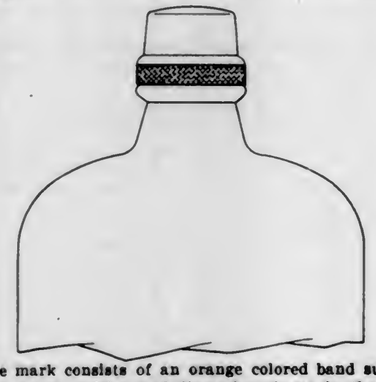
For Sloe Gin.

Claims use since Feb. 9, 1939

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 382,081. ANCHOR CAP & CLOSURE CORPORATION, New York and Long Island City, N. Y. Filed Aug. 12, 1936.



The mark consists of an orange colored band substantially of the position and dimension shown in the drawing. No claim is made to the outline of the cap and the container.

For Bottle Closures.

Claims use since Mar. 13, 1934.

Ser. No. 402,678. WINFIELD E. CLINE, doing business as Cline Advertising Service, Boise, Idaho. Filed Feb. 4, 1938.

THE BUILDING BUG

For Printing Mats, Electrotypes, Stereotypes, and Photoengravings.

Claims use since March, 1936.

Ser. No. 414,090. A. G. WOODMAN COMPANY, Grand Rapids, Mich. Filed Dec. 21, 1938.



No claim is made to the words "Bee-Ware".

For Bee Smokers.

Claims use since Nov. 1, 1938.

Ser. No. 415,282. JAMES R. CONNOR, New York, N. Y. Filed Jan. 27, 1939.



For Devices for Displaying in Co-relation, Samples or Representatives of Home Furnishings, Such as Floor-Coverings, Wall-Coverings, Draperies, Upholstery, Furniture, and Lighting Units.

Claims use since Dec. 27, 1938.

Ser. No. 415,741. HERBERT A. RHODES, New York, N. Y. Filed Feb. 7, 1939.



For Wooden Cross With Clock Therein.

Claims use since Oct. 1, 1938.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 2, 1939

366,777. LIQUEFIED PETROLEUM GAS. RAPID GAS CORPORATION, Cedar Rapids, Iowa.
Filed March 22, 1937. Serial No. 390,381. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,778. FRESH ORANGES. CHAMPION ORANGE COMPANY, Redlands, Calif.
Filed April 30, 1937. Serial No. 392,084. PUBLISHED OCTOBER 4, 1938. Class 46.

366,779. COSMETICS—NAMELY, ASTRINGENT LOTION, ASTRINGENT CREAM, BRILLIANTINE, BATH SALTS, BATH OIL, BATH POWDER, BATH LOTION, ETC. HARRY VICTOR MICHAEL, doing business as Michael's Cosmetic and Beauty Studio, Los Angeles, Calif.
Filed June 2, 1937. Serial No. 393,543. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,780. DEODORANT. SOCIÉTÉ DES ANTIFERMENTS, Neuilly-sur-Seine, France.
Filed June 17, 1937. Serial No. 394,200. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,781. CONFECTIONS — NAMELY, CANDIES. JAMES', INC., Atlantic City, N. J.
Filed August 3, 1937. Serial No. 395,949. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,782. ODOMETER DEVICES FOR USE WITH AND WITHOUT ROLLER SKATES. SEGAL SAFETY RAZOR CORPORATION, New York, N. Y.
Filed August 7, 1937. Serial No. 396,168. PUBLISHED FEBRUARY 21, 1939. Class 26.

366,783. CANNED SAUCE A-LA-KING ADAPTED FOR USE AFTER HEATING ON MEATS AND VEGETABLES. KITCHEN KRAFT FOODS CORPORATION, Brooklyn, N. Y.
Filed November 5, 1937. Serial No. 399,359. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,784. CANDLE BURNING SANCTUARY LAMPS. CANDY & COMPANY, INC., Chicago, Ill.
Filed November 8, 1937. Serial No. 399,439. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,785. LAXATIVE PILLS. STEPHEN S. ROYSTER, doing business as The Laxroy Co., Shelby, N. C.
Filed November 17, 1937. Serial No. 399,859. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,786. PERFUMERY—NAMELY, PERFUMES, CREAMS FOR THE SKIN, FACE POWDER, TOILET WATER, LOTIONS FOR THE SKIN AND HAIR, PAINT FOR THE FACE, LIPSTICKS, POWDER AND ROUGE COMPACTS. SAUZÉ FRÈRES & CIE, Colombes, France.
Filed December 8, 1937. Serial No. 400,614. PUBLISHED JANUARY 31, 1939. Class 6.

366,787. BREAD, ROLLS, BUNS, BISCUITS, DANISH PASTRY, PIES, CAKES, AND CRACKERS. CHARTON C. FRANTZ, doing business as The Frantz Company, Pittsburgh, Pa.
Filed December 28, 1937. Serial No. 401,303. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,788. BAKING POWDER. FRANCIS H. LEGGETT & COMPANY, New York, N. Y.
Filed January 3, 1938. Serial No. 401,493. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,789. MESSAGE CARDS FOR USE WITH MESSAGE CARD MACHINE. FRANK J. IRVING, Los Angeles, Calif.
Filed January 4, 1938. Serial No. 401,532. PUBLISHED FEBRUARY 21, 1939. Class 37.

366,790. REFRIGERATORS AND COMBINED REFRIGERATORS AND WATER HEATERS. STATOR CORPORATION, Providence, R. I.
Filed January 10, 1938. Serial No. 401,757. PUBLISHED FEBRUARY 21, 1939. Class 31.

366,791. HEALING SALVE USED IN THE TREATMENT OF MINOR CUTS, BURNS, AND BRUISES, AND SKIN ERUPTIONS. CHARLES C. FAUST, Lake Charles, La.
Filed January 11, 1938. Serial No. 401,775. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,792. NOSE AND THROAT DROPS FOR THE RELIEF OF IRRITATED, CONGESTED, SWOLLEN CONDITIONS OF THE NASAL MUCOUS MEMBRANE USUALLY ACCOMPANYING HEAD COLDS AND HAY FEVER. S. PFEIFFER MFG. CO., St. Louis, Mo.
Filed February 3, 1938. Serial No. 402,647. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,793. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS, EXTRACTS, AND FLAVORS USED IN MAKING THE SAME. CLOVERDALE SPRING COMPANY, Baltimore, Md.
Filed March 12, 1938. Serial No. 403,988. PUBLISHED FEBRUARY 21, 1939. Class 45.

366,794. INSECTICIDES, FUNGICIDES, AND SILICA PRODUCTS FOR PROTECTING PLANTS, GRAINS, TUBERS, AND ROOTS FROM ATTACK BY INSECTS, FUNGII, AND DECOMPOSITION. GESELLSCHAFT FÜR NEUZEITLICHE BODENBEHANDLUNG M. B. H., NAAKI-VERTRIEB, Neubrandenburg and Berlin, Germany.
Filed March 30, 1938. Serial No. 404,646. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,795. GENERAL ANTISEPTIC, MOUTH WASH, GARGLE, DOUCHE, CONTRACEPTIVE, ANTISEPTIC DEODORANT, GERMICIDE, OR INSECTICIDE. JAMES A. SMITH, Philadelphia, Pa.
Filed March 28, 1938. Serial No. 404,586. PUBLISHED MAY 31, 1938. Class 6.

366,796. CANNED PEAS. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn.
Filed March 30, 1938. Serial No. 404,653. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,797. TOILET PREPARATIONS—NAMELY, PREPARATIONS FOR THE CARE AND TREATMENT OF THE HAIR AND SCALP. SAMUEL I. MARKS, Chicago, Ill.
Filed May 14, 1938. Serial No. 406,343. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,798. WAVE SET SOLUTION, HAND CREAM, TISSUE CREAM, FOUR-PURPOSE CREAM, COLD CREAM, ETC. LEO B. LEAVITT, doing business as Orchid Laboratories, Chicago, Ill.
Filed June 15, 1938. Serial No. 407,500. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,799. MEDICINAL OINTMENT FOR EXTERNAL APPLICATION IN THE TREATING OF MAJOR BURNS, CUTS, BRUISES, BOILS, POISONOUS BITES, AGED SORES, AND EXTERNAL SKIN INFECTIONS. GEORGE SMALES, JR., Martins Ferry, Ohio.
Filed June 22, 1938. Serial No. 407,769. PUBLISHED NOVEMBER 8, 1938. Class 6.

366,800. PADS SATURATED WITH A FACIAL CLEANSING PREPARATION, CLEANSING CREAMS, NORMALIZING CREAMS, FINISHING CREAMS, AND FACIAL ROUGE. ALICE LUTON, Meriden, Conn.
Filed June 30, 1938. Serial No. 408,040. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,801. REFLECTORS MADE WHOLLY OR PRINCIPALLY OF GLASS. CHANCE BROTHERS AND CO. LIMITED, West Smethwick, England.
Filed July 12, 1938. Serial No. 408,417. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,802. LAXATIVES. STANLEY M. STRAUS, doing business as Movie Productions, Cincinnati, Ohio.
Filed July 28, 1938. Serial No. 409,012. PUBLISHED JANUARY 31, 1939. Class 6.

366,803. DOLLS AND TOY BUILDINGS. YERMIE STERN COMMERCIAL ATTRACTIONS, New York, N. Y.
Filed August 5, 1938. Serial No. 409,290. PUBLISHED FEBRUARY 21, 1939. Class 22.

366,804. CHEMICAL PRODUCTS FOR INDUSTRIAL USE, ESPECIALLY CHEMICAL COMPOUNDS USED IN THE HEAT TREATMENT OF METALS SUCH AS IRON, STEEL, LIGHT METALS SUCH AS ALUMINUM, MAGNESIUM, AND ALLOYS, BRASS, COPPER. DEUTSCHE GOLD- UND SILBER-SCHEIDEANSTALT, VORMALS ROESSLER, Frankfort-on-the-Main, Germany.
Filed August 9, 1938. Serial No. 409,385. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,805. INDUSTRIAL HEAT TREATING, COOLING AND DRYING CHAMBERS, OVENS, MUFFLES, AND CRUCIBLES. DEUTSCHE GOLD- UND SILBER-SCHEIDEANSTALT, VORMALS ROESSLER, Frankfort-on-the-Main, Germany.
Filed August 9, 1938. Serial No. 409,389. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,806. CHEMICAL PRODUCTS FOR INDUSTRIAL USE, ESPECIALLY CHEMICAL COMPOUNDS USED IN THE HEAT TREATMENT OF METALS SUCH AS IRON, STEEL, LIGHT METALS SUCH AS ALUMINUM, MAGNESIUM, AND ALLOYS, BRASS AND COPPER, AND THE CEMENTING AND HARDENING THEREOF. DEUTSCHE GOLD- UND SILBER-SCHEIDEANSTALT, VORMALS ROESSLER, Frankfort-on-the-Main, Germany.
Filed August 9, 1938. Serial No. 409,390. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,807. ELECTRIC TOBACCO LIGHTERS. THE CUNO ENGINEERING CORPORATION, Meriden, Conn.
Filed August 27, 1938. Serial No. 410,022. PUBLISHED FEBRUARY 21, 1939. Class 21.

366,808. PREPARATION OF VITAMINS AND MINERALS USED AS A DIET SUPPLEMENT. DIETETIC RESEARCH LABORATORIES, INC., Bloomfield, N. J.
Filed September 1, 1938. Serial No. 410,173. PUBLISHED JANUARY 31, 1939. Class 6.

366,809. ROACH PASTE. LYDA A. EXLEY, doing business as Hom-Protector Company, Savannah, Ga.
Filed September 15, 1938. Serial No. 410,585. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,810. WINES. SOUTHLAND WINE CORPORATION, Richmond, Va.
Filed September 16, 1938. Serial No. 410,665. PUBLISHED FEBRUARY 21, 1939. Class 47.

366,811. WINES. SOUTHLAND WINE CORPORATION, Richmond, Va.
Filed September 16, 1938. Serial No. 410,666. PUBLISHED FEBRUARY 21, 1939. Class 47.

366,812. WINES. SOUTHLAND WINE CORPORATION, Richmond, Va.
Filed September 16, 1938. Serial No. 410,673. PUBLISHED FEBRUARY 21, 1939. Class 47.

366,813. HAIR TONIC, HAIR DRESSING, AND DANDRUFF PREPARATION. PAUL WESTPHAL INCORPORATED, New York, N. Y.
Filed September 17, 1938. Serial No. 410,713. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,814. OILS INCLUDING PROCESSED OILS AND SYNTHETIC OILS, AND GLYCERINE, ALL FOR USE IN PRINTING INKS, MOLDINGS AND CASTINGS, COMPOSITION MASSES, FLOOR COVERINGS, ADHESIVES, WATERPROOFING MATERIALS, CORE OILS, BRAKE LINING, AND BINDERS. REICHHOLD CHEMICALS, INC., Detroit, Mich.
Filed September 15, 1938. Serial No. 410,979. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,815. CONCENTRATED VEGETABLE PREPARATION IN TABLETS AND IN POWDER FORMS FOR USE AS AN INTESTINAL REGULATOR, FOR REDUCING FOOD, FOR HIGH BLOOD PRESSURE, FOR CALCIUM DEFICIENCY. LAZAR SCHIPPER, doing business as Coveto Company, Los Angeles, Calif.
Filed September 26, 1938. Serial No. 411,025. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,816. CHEMICAL PREPARATIONS IN POWDERED, CRYSTAL, AND LIQUID FORM ADAPTED FOR BATHING PURPOSES. MAISON JEURELLE-SEVENTEEN, INC., New York, N. Y.
Filed September 27, 1938. Serial No. 411,033. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,817. MEDICINAL PRODUCT INTENDED FOR USE IN VENEREAL DISEASE PROPHYLAXIS. JOHN WYETH AND BROTHER, INCORPORATED, Philadelphia, Pa.
Filed October 4, 1938. Serial No. 411,288. PUBLISHED JANUARY 31, 1939. Class 6.

366,818. MEDICINAL PINE EXTRACT WINE TONIC FOR BUILDING UP AND REINVIGORATING THE SYSTEM. PACIFIC TRADING COMPANY, INC., San Francisco, Calif.
Filed October 11, 1938. Serial No. 411,509. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,819. PIECE GOODS CONSISTING OF RAYON. TABIN-PICKER & COMPANY, Chicago, Ill.
Filed October 14, 1938. Serial No. 411,618. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,820. PIECE GOODS WHICH CONSISTS OF AN ALL SPUN RAYON WITH TEN PER CENT SILK. TABIN-PICKER & COMPANY, Chicago, Ill.
Filed October 14, 1938. Serial No. 411,619. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,821. RAYON PIECE GOODS. TABIN-PICKER & COMPANY, Chicago, Ill.
Filed October 14, 1938. Serial No. 411,621. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,822. TRUNKS, SUITCASES, AND TRAVELING BAGS. SHWAYDER BROS., INC., Denver, Colo.
Filed October 17, 1938. Serial No. 411,669. PUBLISHED FEBRUARY 21, 1939. Class 3.

366,823. LIPSTICK, ROUGE, FACE POWDER, EYELASH AND EYEBROW MASCARA; CREAMS FOR THE HANDS AND FACE; PREPARATIONS FOR THE SKIN, HAIR, AND FINGER NAILS, AND PERFUMES. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill.
Filed October 17, 1938. Serial No. 411,673. PUBLISHED DECEMBER 6, 1938. Class 6.

366,824. DOG FOOD, CAT FOOD, BIRD SEED, TEA, COFFEE, SPICES, CANNED VEGETABLES, CANNED FISH, EDIBLE OILS; CEREALS—NAMELY, RICE AND BARLEY; DRIED BEANS, PEAS, AND LENTILS; AND UNSHELLED NUTS. THE GRAHAM CO., INC., New York, N. Y.
Filed October 17, 1938. Serial No. 411,690. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,825. ELECTRIC LAMPS OR BULBS. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed October 21, 1938. Serial No. 411,894. PUBLISHED FEBRUARY 21, 1939. Class 21.

366,826. MECHANICAL STOKERS. GENERAL STOKERS, INC., Philadelphia, Pa.
Filed October 22, 1938. Serial No. 411,952. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,827. SALVE USED IN THE TREATMENT OF ATHLETE'S FOOT, ECZEMA, BOILS, OPEN WOUNDS, ABRASIONS, AND IRRITATED CONDITIONS OF THE SKIN AND TISSUES. CARL J. WENTZ, doing business as Top-All Mfg. Co., Wheeling, W. Va.
Filed October 22, 1938. Serial No. 411,979. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,828. RAZORS, SAFETY-RAZORS, SAFETY-RAZOR BLADES, SCISSORS, PEN-KNIVES, CUTLASSES, AND TABLE-KNIVES COMPOSED WHOLLY OR IN PART OF BASE-METAL. MANUEL PEREZ GONZALEZ, Buenos Aires, Argentina.
Filed October 24, 1938. Serial No. 411,990. PUBLISHED FEBRUARY 21, 1939. Class 23.

366,829. FOOD PRODUCT CONTAINING SOY BEAN FLOUR, SUGAR, AND CORNMEAL, FOR USE WITH OTHER INGREDIENTS IN VARIOUS FILLINGS, CAKES, CONFECTIONS, AND THE LIKE. AMERICAN SOYA PRODUCTS CORPORATION, Evansville, Ind.
Filed October 27, 1938. Serial No. 412,081. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,830. MEDICATED PREPARATION CONTAINING ALCOHOL FOR EXTERNAL USE AS A LINIMENT. LONDON SOLVENTS LIMITED, London, England.
Filed October 27, 1938. Serial No. 412,109. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,831. FRESH CITRUS FRUITS, CANNED CITRUS FRUIT JUICES FOR FOOD PURPOSES, AND CANNED CITRUS FRUITS. MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif.
Filed October 28, 1938. Serial No. 412,150. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,832. PREPARATION USED IN THE TREATMENT OF THROAT AND NOSE INFECTIONS AND IRRITATIONS. RUSTOL LABORATORIES, Maryville, Tenn.
Filed October 28, 1938. Serial No. 412,158. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,833. ANTACID AND ABSORBENT. ABBOTT LABORATORIES, North Chicago, Ill.
Filed November 3, 1938. Serial No. 412,322. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,834. CONCENTRATED ELECTRICAL SPOT LIGHTS, ELECTRICAL BULBS, LAMPS, SOCKETS, SHIELDS, REFLECTORS, ELECTRICAL CORDS, ELECTRICAL SWITCHES, AND ELECTRICAL CONTACT PLUGS USED FOR THE DESTRUCTION OF ORGANISMS BY IRRADIATION. LERAY CORPORATION, New York, N. Y.
Filed November 3, 1938. Serial No. 412,345. PUBLISHED FEBRUARY 21, 1939. Class 21.

366,835. TABLETS CONTAINING VITAMINS AND MINERAL CONSTITUENTS FOR HUMAN CONSUMPTION. VI-MINTONE, INC., New York, N. Y.
Filed November 4, 1938. Serial No. 412,399. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,836. SHEET STEEL—NAMELY, FLAT GALVANIZED SHEETS OR CORRUGATED GALVANIZED SHEETS. WEIRTON STEEL COMPANY, Weirton, W. Va.
Filed November 7, 1938. Serial No. 412,478. PUBLISHED FEBRUARY 21, 1939. Class 14.

366,837. DYES FOR THE HAIR. OSBORNE, GARRETT & CO. LIMITED, London, England.
Filed November 8, 1938. Serial No. 412,524. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,838. TRUSSES. RUSSELL A. CAMPBELL, doing business as The Miller Laboratories, Gettysburg, Pa.
Filed November 12, 1938. Serial No. 412,627. PUBLISHED FEBRUARY 21, 1939. Class 44.

366,839. PRESSURE COOKERS. VISCHER PRODUCTS COMPANY, Chicago, Ill.
Filed November 12, 1938. Serial No. 412,672. PUBLISHED FEBRUARY 21, 1939. Class 13.

366,840. SOLUTION ADAPTED TO FORM A PROTECTIVE COATING ON HUMAN SKIN. STANDARD SAFETY EQUIPMENT CO., Chicago, Ill.
Filed November 12, 1938. Serial No. 412,673. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,841. ZINC-COATED FERROUS SHEETS AND SHEET ROOFING. AMERICAN ZINC INSTITUTE, INCORPORATED, New York, N. Y.
Filed November 14, 1938. Serial No. 412,690. PUBLISHED FEBRUARY 21, 1939. Class 14.

366,842. MOTOR DELIVERY TRUCKS. DIVCO-TWIN TRUCK COMPANY, Detroit, Mich.
Filed November 15, 1938. Serial No. 412,756. PUBLISHED FEBRUARY 21, 1939. Class 19.

366,843. SKI BINDINGS. DOVRE SKI BINDING CO., West Concord, Mass.
Filed November 15, 1938. Serial No. 412,757. PUBLISHED FEBRUARY 21, 1939. Class 22.

366,844. MEDICINES AND PHARMACEUTICAL PREPARATIONS—NAMELY, PREPARATIONS FOR THE TREATMENT OF FLATULENCE, HYPERACIDITY, SOUR STOMACH, GASTRIC DISTRESS, ACIDOSIS, INTESTINAL SEDATIVES, ANTACIDS. WATERBURY CHEMICAL COMPANY, INC., New York, N. Y.
Filed November 15, 1938. Serial No. 412,783. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,845. COMPLETE OIL AND GAS BUILDING HEATING UNITS, OIL AND GAS BURNERS, BOILERS, ETC. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed November 16, 1938. Serial No. 412,809. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,846. AUTOMOTIVE VEHICLES—NAMELY, TRUCKS, TRUCK BODIES, CABS, AND BUSES. THE METROPOLITAN BODY COMPANY, Bridgeport, Conn.
Filed November 19, 1938. Serial No. 412,979. PUBLISHED FEBRUARY 21, 1939. Class 19.

366,847. PHOTOGRAPHIC ENLARGING AND PRINTING APPARATUS. INTERNATIONAL RADIO CORPORATION, Ann Arbor, Mich.
Filed November 22, 1938. Serial No. 413,044. PUBLISHED FEBRUARY 21, 1939. Class 26.

366,848. PHOTOGRAPHIC EXPOSURE METER (USING ELECTRIC CELL). INTERNATIONAL RADIO CORPORATION, Ann Arbor, Mich.
Filed November 22, 1938. Serial No. 413,045. PUBLISHED FEBRUARY 21, 1939. Class 26.

366,849. ARSENICAL, SPIROCHETICIDAL, AND TRYPANOCIDAL SUBSTANCE EMPLOYED IN THE TREATMENT OF SYPHILIS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed November 25, 1938. Serial No. 413,093. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,850. INK PIGMENTS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 25, 1938. Serial No. 413,116. PUBLISHED FEBRUARY 21, 1939. Class 11.

366,851. EXPLOSIVE COMPOUNDS, POWDER BAGS, TIME BOMBS, AND BLASTING ACCESSORIES—NAMELY, BLASTING CAPS, BLASTING MACHINES, CAP CRIMPERS, CAP SEALING COMPOUNDS, AND TAMPING BAGS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 25, 1938. Serial No. 413,119. PUBLISHED FEBRUARY 21, 1939. Class 9.

366,852. ZEPHYR GINGHAM, SHEETING, SHEETS, PILLOW CASES, AND COTTON SHIRTINGS. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed November 26, 1938. Serial No. 413,199. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,853. PREPARATION FOR THE TREATMENT OF RHEUMATISM, NEURITIS, ARTHRITIS, HIGH BLOOD PRESSURE, AND ACID STOMACH. WILLIAM R. CHERRY, Williamston, N. C.
Filed November 28, 1938. Serial No. 413,218. PUBLISHED JANUARY 31, 1939. Class 6.

366,854. PIECE GOODS OF SPUN RAYON AND SILK MIXTURE. ARTHUR BEIR & CO. INC., New York, N. Y.
Filed November 29, 1938. Serial No. 413,262. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,855. PHOTOGRAPHIC ENLARGING APPARATUS AND PHOTOGRAPHIC PRINTING APPARATUS. INTERNATIONAL RADIO CORPORATION, Ann Arbor, Mich.
Filed November 29, 1938. Serial No. 413,266. PUBLISHED FEBRUARY 21, 1939. Class 26.

366,856. OINTMENT FOR USE IN THE TREATMENT OF FOOT AILMENTS, MUSCULAR PAINS, BUNIONS, CALLOUSES AND CORNS, TENDER AND ACHING FEET, SPRAINS, SORE AND STIFF LIGAMENTS, AND BODILY ACHES OR SORENESS IN GENERAL. MARIE A. SHRINER, Chicago, Ill.
Filed November 29, 1938. Serial No. 413,282. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,857. FEED FOR POULTRY AND LIVE STOCK. SILMO CHEMICAL CORPORATION, Vineland, N. J.
Filed November 29, 1938. Serial No. 413,283. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,858. EXTERNAL ANTIPHLOGISTIC ABSORBENT FOR ALLAYING PAIN AND REDUCING INFLAMMATION. CLIFFORD G. LA CROSSE, doing business as La Crosse Laboratories, Baltimore, Md.
Filed November 30, 1938. Serial No. 413,312. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,859. ACCESSORIES FOR TEXTILE MACHINERY INCLUDING BRAIDER CARRIERS, COPHOLDERS, BRAIDER TENSION GUIDES, BRAIDER BOBBINS, BRAIDER TUBES, BOBBIN BASES, AND YARN SLUB CATCHERS. MOSSBERG PRESSED STEEL CORPORATION, Attleboro, Mass.
Filed November 30, 1938. Serial No. 413,313. PUBLISHED FEBRUARY 21, 1939. Class 23.

366,860. PLANT INSECTICIDES. ANDREW WILSON, INC., Springfield, N. J.
Filed December 1, 1938. Serial No. 413,374. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,861. COAL. STEARNS COAL & LUMBER COMPANY, INCORPORATED, Stearns, Ky.
Filed December 2, 1938. Serial No. 413,423. PUBLISHED FEBRUARY 21, 1939. Class 1.

366,862. COMPOUND FOR PREVENTING AND REMOVING MOLD, KILLING MOTHS, AND THE LIKE. CAPERTON CHEMICAL CO., Daytona Beach, Fla.
Filed December 3, 1938. Serial No. 413,433. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,863. PERMANENT WAVE LOTION. VINCENT J. CURCIO, doing business as V. J. Curcio Co., Jersey City, N. J.
Filed December 3, 1938. Serial No. 413,435. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,864. FACIAL TISSUES, PAPER TOWELS, PAPER NAPKINS, AND PAPER HANDKERCHIEFS. S. H. KRESS AND COMPANY, New York, N. Y.
Filed December 3, 1938. Serial No. 413,447. PUBLISHED FEBRUARY 21, 1939. Class 37.

366,865. WINDOW SHADE CLOTH IN THE PIECE. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed December 7, 1938. Serial No. 413,539. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,866. CLEANING, CLEANSING, AND DETERGENT PREPARATION CHARACTERIZED BY THE POSSESSION OF WATER SOFTENING AND DE-ODORIZING PROPERTIES, AND PARTICULARLY USEFUL FOR DAIRY, FARM, HOUSEHOLD, AND GENERAL WASHING AND CLEANSING PURPOSES. THE J. B. FORD COMPANY, Wyandotte, Mich.
Filed December 7, 1938. Serial No. 413,548. PUBLISHED FEBRUARY 21, 1939. Class 4.

366,867. CHEMOTHERAPEUTIC AGENT FOR STREPTOCOCCIC AND STAPHYLOCOCCIC INFECTIONS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed December 7, 1938. Serial No. 413,552. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,868. COAL. LOVE & AMOS COAL COMPANY, Nashville, Tenn.
Filed December 7, 1938. Serial No. 413,555. PUBLISHED FEBRUARY 21, 1939. Class 1.

366,869. GAS STOVES, GAS HEATERS, GAS WATER HEATERS AND GAS DISTRIBUTING UNITS. SKELGAS COMPANY, Kansas City, Mo.
Filed December 7, 1938. Serial No. 413,568. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,870. EYE MAKE-UP PRODUCT OF A NATURE SIMILAR TO EYE SHADOW. PINAUD INCORPORATED, New York, N. Y.
Filed December 8, 1938. Serial No. 413,593. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,871. BODY WEIGHT CONTROL PREPARATION. NATHAN SCHULMAN, doing business as Naturway Products Co., Long Beach, Calif.
Filed December 8, 1938. Serial No. 413,594. PUBLISHED JANUARY 31, 1939. Class 6.

366,872. HAIR TONIC, SHAVING ANTISEPTIC PENCILS, SHAMPOOS, FACE LOTION, SOLID AND LIQUID HAIR DRESS PREPARATIONS. COSMETICS RESEARCH CORPORATION, New Haven, Conn.
Filed December 9, 1938. Serial No. 413,621. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,873. METAL CANS. CROWN CAN COMPANY, Philadelphia, Pa.
Filed December 10, 1038. Serial No. 413,666. PUBLISHED FEBRUARY 21, 1939. Class 2.

366,874. TRANSPARENT COMPOSITION WRAPPERS. SEALTEST, INC., Baltimore, Md., and New York, N. Y.
Filed December 10, 1938. Serial No. 413,685. PUBLISHED FEBRUARY 21, 1939. Class 37.

366,875. X-RAY APPARATUS AND PARTS THEREOF AND ACCESSORIES THEREFOR, FLUOROSCOPES, ETC. H. G. FISCHER & CO., Chicago, Ill.
Filed December 13, 1938. Serial No. 413,777. PUBLISHED FEBRUARY 21, 1939. Class 44.

366,876. STEEL SHAFTS FOR GOLF CLUBS. JAMES HEDDON'S SONS, Dowagiac, Mich.
Filed December 13, 1938. Serial No. 413,783. PUBLISHED FEBRUARY 21, 1939. Class 22.

366,877. STEEL SHAFTS FOR GOLF CLUBS. JAMES HEDDON'S SONS, Dowagiac, Mich.
Filed December 13, 1938. Serial No. 413,785. PUBLISHED FEBRUARY 21, 1939. Class 22.

366,878. DIE CASTING MACHINES. MADISON-KIPP CORPORATION, Madison, Wis.
Filed December 14, 1938. Serial No. 413,834. PUBLISHED FEBRUARY 21, 1939. Class 23.

366,879. VENTILATING LOUVERS. AUTOVENT FAN & BLOWER CO., Chicago, Ill.
Filed December 12, 1938. Serial No. 413,850. PUBLISHED FEBRUARY 21, 1939. Class 34.

366,880. PORCELAIN TEETH, DENTURES COMPRISING BASE AND TEETH, DENTURE PARTS, AND MOLDS FOR FORMING SAME. AUSTENAL LABORATORIES, INC., New York, N. Y.
Filed December 15, 1938. Serial No. 413,852. PUBLISHED FEBRUARY 21, 1939. Class 44.

366,881. CLOCKS AND PARTS AND CASES THEREFOR. INTERNATIONAL RADIO CORPORATION, Ann Arbor, Mich.
Filed December 15, 1938. Serial No. 413,871. PUBLISHED FEBRUARY 21, 1939. Class 27.

366,882. PENETRATING RUBBER LUBRICANT. FLORENCE ROSEN, doing business as American Grease Stick Company, Muskegon Heights, Mich.
Filed December 15, 1938. Serial No. 413,881. PUBLISHED FEBRUARY 14, 1939. Class 15.

366,883. HAND OPERATED TOOLS—NAMELY, AXES, LETTUCE CUTTERS; THISTLE, DOCK, AND WEED CUTTERS, ETC. THE UNION FORK & HOE COMPANY, Columbus, Ohio.
Filed December 15, 1938. Serial No. 413,884. PUBLISHED FEBRUARY 21, 1939. Class 23.

366,884. CANNED FRUITS FOR SALAD. CALDBEAR CANNERIES CO., San Francisco, Calif.
Filed December 16, 1938. Serial No. 413,893. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,885. INSULATED ELECTRICAL CONDUCTING WIRE AND CABLE. SIMPLEX WIRE & CABLE COMPANY, Cambridge, Mass.
Filed December 16, 1938. Serial No. 413,915. PUBLISHED FEBRUARY 21, 1939. Class 21.

366,886. FRESH VEGETABLES. LEWIS TERVEN, Salinas, Calif.
Filed December 16, 1938. Serial No. 413,918. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,887. CLEANING COMPOUND FOR FABRICS, DISHES, AND GLASSWARE, PAINTED, OR VARNISHED SURFACES AND THE LIKE. HARRY H. WENTZEL, doing business as Roxborough Cleanser Co., Philadelphia, Pa.
Filed December 16, 1938. Serial No. 413,922. PUBLISHED FEBRUARY 21, 1939. Class 4.

366,888. BEER, ALE, PORTER, AND STOUT. P. BALLANTINE & SONS, Newark, N. J.
Filed December 17, 1938. Serial No. 413,926. PUBLISHED FEBRUARY 21, 1939. Class 48.

366,889. PAPER AND CARDBOARD BOXES. LOUIS K. CLARK, New York, N. Y.
Filed December 17, 1938. Serial No. 413,929. PUBLISHED FEBRUARY 21, 1939. Class 2.

366,890. BEER. FRANKENMUTH BREWING COMPANY, Frankenmuth, Mich.
Filed December 17, 1938. Serial No. 413,935. PUBLISHED FEBRUARY 21, 1939. Class 48.

366,891. FOOD FOR DOMESTIC AND CARNIVOROUS ANIMALS, PARTICULARLY DOG FOOD, FOX FOOD, AND CAT FOOD. GENERAL MILLS, INC., Minneapolis, Minn.
Filed December 17, 1938. Serial No. 413,940. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,892. SCREW DRIVERS, CHUCKS, DRILLS, AND COUNTERSINKS. NORTH BRO'S M'F'G CO., Philadelphia, Pa.
Filed December 17, 1938. Serial No. 413,954. PUBLISHED FEBRUARY 21, 1939 Class 23.

366,893. WRAPPING PAPER. UNION BAG & PAPER CORPORATION, New York, N. Y.
Filed December 17, 1938. Serial No. 413,963. PUBLISHED FEBRUARY 21, 1939. Class 37.

366,894. SHEETS AND PILLOW CASES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed December 19, 1938. Serial No. 413,987. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,895. CANNED GRAPEFRUIT. SAFEWAY STORES, INC., also doing business as General Food Products Co., Vernon and Oakland, Calif.
Vernon and Oakland, Calif.
Filed December 19, 1938. Serial No. 414,003. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,896. CANNED TOMATO JUICE. SAFEWAY STORES, INC., also doing business as General Food Products Co., Vernon and Oakland, Calif.
Filed December 19, 1938. Serial No. 414,005. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,897. CANNED GRAPEFRUIT JUICE FOR FOOD PURPOSES. SAFEWAY STORES, INC., also doing business as General Food Products Co., Vernon and Oakland, Calif.
Filed December 19, 1938. Serial No. 414,006. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,898. RAYON PIECE GOODS. WOOL-RAY PRODUCTS CORPORATION, New York, N. Y.
Filed December 19, 1938. Serial No. 414,021. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,899. CITRUS FRUITS. FLORIDA CITRUS EXCHANGE, Tampa, Fla.
Filed December 20, 1938. Serial No. 414,027. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,900. FUNGICIDES FOR ADDITION TO PAINTS. MER-Q-REE, INCORPORATED, Bethesda, Md.
Filed December 20, 1938. Serial No. 414,036. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,901. COMPOSITION FOR REPAIRING RADIATORS, CRACKED CYLINDER HEADS, AND SPLIT WATER JACKETS. HENRY PINARD, doing business as Pinard Company, Manchester, N. H.
Filed December 20, 1938. Serial No. 414,040. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,902. POULTRY FEED, DAIRY FEED, HORSE FEED, HOG FEED. THRIFT MILLING COMPANY, Albany, Ga.
Filed December 20, 1938. Serial No. 414,047. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,903. CONCENTRATED CHOCOLATE FLAVORED MILK. WINDSOR EVAPORATED MILK CO., Cleveland, Ohio.
Filed December 21, 1938. Serial No. 414,089. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,904. INSECTICIDES, COMPOSITIONS FOR EXTERMINATING INSECTS. BALDWIN LABORATORIES INC., Saegertown, Pa.
Filed December 22, 1938. Serial No. 414,092. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,905. MEDICINAL PREPARATION USED IN THE TREATMENT OF RHEUMATISM, MUSCULAR SORENESS, SPRAINS, CUTS, BURNS, AND CORNS, OF HUMANS, AND BIG HEAD, FOOT ROT, BLUE BAG, COYOTE BITES, SORE SHOULDERS, COW'S CAKED BAG, IN BEASTS. FARNES & HAMILTON, Rigby, Idaho.
Filed December 22, 1938. Serial No. 414,099. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,906. SOYBEAN PROTEIN FLOUR USED IN MAKING ADHESIVES, PLASTICS, PAINTS, INSECTICIDES, AND SIZINGS AND COATINGS FOR PAPER, TEXTILES, AND SIMILAR FABRICS. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed December 22, 1938. Serial No. 414,105. PUBLISHED FEBRUARY 21, 1939. Class 1.

366,907. BLENDED, FLAVORED CEREALS USED AS A BINDER IN COMMINUTED MEAT PRODUCTS. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed December 22, 1938. Serial No. 414,106. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,908. BLOTTING PAPER. ROY GOFF, II, Ardmore, Pa.
Filed December 22, 1938. Serial No. 414,108. PUBLISHED FEBRUARY 21, 1939. Class 37.

366,909. TOOTH BRUSHES. GOLDSMITH BROS., New York, N. Y.
Filed December 22, 1938. Serial No. 414,109. PUBLISHED FEBRUARY 21, 1939. Class 29.

366,910. ASH RECEIVERS. SMOKADOR MANUFACTURING CO., INC., Bloomfield, N. J.
Filed December 22, 1938. Serial No. 414,118. PUBLISHED FEBRUARY 21, 1939. Class 8.

366,911. CHEWING GUM. TOPPS CHEWING GUM, INC., Brooklyn, N. Y.
Filed December 22, 1938. Serial No. 414,123. PUBLISHED FEBRUARY 21, 1939. Class 46.

366,912. SPONGES, CHAMOIS, MICA, GARDEN SEEDS, AND SOLE LEATHER. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,127. PUBLISHED FEBRUARY 21, 1939. Class 1.

366,913. COMPOUNDS FOR USE WITH COAL FOR THE PURPOSE OF SECURING MORE COMPLETE COMBUSTION. LOUIS R. STEICH, doing business as Heatex Company, New York, N. Y.
Filed December 23, 1938. Serial No. 414,167. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,914. CAMEL HAIR CLOTH IN THE PIECE. S. STROOCK & CO., INC., New York, N. Y.
Filed December 23, 1938. Serial No. 414,168. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,915. BEAUTY PRODUCTS FOR TOILET PURPOSES SUCH AS CREAMS, LIPSTICKS, ROUGE, FACE AND HAIR LOTIONS, PERFUME, AND SIMILAR SUBSTANCES. JEANNE GUILLEAUMAUD, Nice, France.
Filed December 24, 1938. Serial No. 414,187. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,916. LIQUEUR-CORDIAL. THE HOUSE OF MCATEER, INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,191. PUBLISHED FEBRUARY 21, 1939. Class 49.

366,917. CIGARS. WAITT & BOND, INC., Newark, N. J.
Filed December 24, 1938. Serial No. 414,211. PUBLISHED FEBRUARY 21, 1939. Class 17.

366,918. SYNTHETIC STAPLE FIBRE. CARBIDE AND CARBON CHEMICALS CORPORATION, New York, N. Y.
Filed December 27, 1938. Serial No. 414,215. PUBLISHED FEBRUARY 21, 1939. Class 1.

366,919. VAGINAL DIAPHRAGMS. FREDERICK E. LAWRENCE, doing business as Federal Physician's Supply Co., Denver, Colo.
Filed December 27, 1938. Serial No. 414,229. PUBLISHED FEBRUARY 21, 1939. Class 44.

366,920. VENETIAN BLIND SLATS. G. B. LEWIS COMPANY, Watertown, Wis.
Filed December 27, 1938. Serial No. 414,230. PUBLISHED FEBRUARY 21, 1939. Class 32.

366,921. CARBON PAPER. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y.
Filed December 27, 1938. Serial No. 414,249. PUBLISHED FEBRUARY 21, 1939. Class 11.

366,922. MAGNESIUM CARBONATE AND MAGNESIUM OXIDE. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed December 28, 1938. Serial No. 414,264. PUBLISHED FEBRUARY 7, 1939. Class 6.

366,923. COTTON PIECE GOODS. TURNER HALSEY EXPORT CORPORATION, New York, N. Y.
Filed December 28, 1938. Serial No. 414,283. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,924. ROLLER STIPPLING BRUSHES. MORRIS WELT, doing business as American Products Co., New York, N. Y.
Filed December 28, 1938. Serial No. 414,284. PUBLISHED FEBRUARY 21, 1939. Class 29.

366,925. OPHTHALMIC CREME FOR RELIEF FOR TIRED EYES. THEODORE B. FORBES, Altus, Okla.
Filed December 29, 1938. Serial No. 414,291. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,926. PIECE GOODS MADE WHOLLY OR IN PART OF ACETATE, RAYON, SPUN RAYON, AND SILK. J. ROSENHOLZ INC., New York, N. Y.
Filed December 29, 1938. Serial No. 414,329. PUBLISHED FEBRUARY 21, 1939. Class 42.

366,927. METAL CANS. CROWN CAN COMPANY, Philadelphia, Pa.
Filed December 30, 1938. Serial No. 414,341. PUBLISHED FEBRUARY 21, 1939. Class 2.

366,928. CHEMICALS USED IN INSECTICIDES, FERTILIZERS, AND PAINTS—NAMELY, ZINC SULPHATE, CRUDE ZINC OXIDE, AND REFINED ZINC OXIDE. THE GLIDDEN COMPANY, doing business as The Chemical & Pigment Company, Cleveland, Ohio.
Filed December 30, 1938. Serial No. 414,345. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,929. ISOLATED VEGETABLE PROTEIN FOR USE IN MAKING ADHESIVES, PLASTICS, PAINTS, INSECTICIDES, AND SIZINGS AND COATINGS FOR PAPER, TEXTILES, AND SIMILAR FABRICS. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed December 30, 1938. Serial No. 414,346. PUBLISHED FEBRUARY 21, 1939. Class 1.

366,930. BROOMS. THE JOSEPH LAY CO. INC., Portland, Ind.
Filed December 30, 1938. Serial No. 414,354. PUBLISHED FEBRUARY 21, 1939. Class 29.

366,931. READY MIXED PAINTS, PAINT ENAMELS, VARNISHES, AND SYNTHETIC OIL FOR USE IN THE PAINT AND VARNISH BUSINESS. LEHMAN BROS. CORP., Jersey City, N. J.
Filed December 30, 1938. Serial No. 414,355. PUBLISHED FEBRUARY 21, 1939. Class 16.

366,932. FOLDABLE IRONING TABLES. THE BREWER-TITCHENER CORPORATION, Cortland, N. Y.
Filed December 31, 1938. Serial No. 414,391. PUBLISHED FEBRUARY 21, 1939. Class 24.

366,933. FOLDABLE IRONING TABLES. THE BREWER-TITCHENER CORPORATION, Cortland, N. Y.
Filed December 31, 1938. Serial No. 414,392. PUBLISHED FEBRUARY 21, 1939. Class 24.

366,934. ANALGESIC TABLET FOR RELIEF OF PAIN. GENERAL PRODUCTS COMPANY, Boston, Mass.
Filed December 31, 1938. Serial No. 414,400. PUBLISHED FEBRUARY 14, 1939. Class 6.

366,935. ANTISEPTIC DIAPHRAGMS AND FITTING RINGS FOR USE IN THE APPLICATION OF ANTISEPTIC MATERIALS. CHARLES B. HAGAMAN, doing business as Medi-phragm Products, Denver, Colo.
Filed January 3, 1939. Serial No. 414,447. PUBLISHED FEBRUARY 21, 1939. Class 44.

366,936. METAL FILING CABINETS. THE GENERAL FIREPROOFING CO., Youngstown, Ohio.
Filed January 11, 1939. Serial No. 414,695. PUBLISHED FEBRUARY 21, 1939. Class 32.

366,937. RESILIENT VEHICLE TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 12, 1939. Serial No. 414,730. PUBLISHED FEBRUARY 21, 1939. Class 35.

366,938. SCHOOL TABLETS, FILLERS, COMPOSITION BOOKS, NOTE BOOKS, SPELLING AND DRAWING TABLETS. TAYLOE PAPER COMPANY, Memphis, Tenn.
Filed February 17, 1937. Serial No. 389,045. PUBLISHED OCTOBER 18, 1938. Class 37.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

366,939. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLUB RAZOR & BLADE MANUFACTURING CORPORATION, Newark, N. J. Filed Sept. 17, 1936. Serial No. 383,348.

Triplkeen

For Razor Blades.
Claims use since July 15, 1936.

366,940. (CLASS 39. CLOTHING.) PANTHER-PANCO RUBBER CO. INC., Chelsea, Mass. Filed Feb. 3, 1937. Serial No. 388,511.

KAMPER

For Rubber Soles.
Claims use since Dec. 3, 1936.

366,941. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RICHARD J. MOORE, New York, N. Y. Filed Apr. 2, 1937. Serial No. 390,860.

Fragrantaire

For Porous Disseminators for Perfumes in the Nature of Ornamental Bric-a-Brac.
Claims use since Mar. 20, 1937.

366,942. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE STEINHARDT COMPANY, INC., New York, N. Y., assignor to Hacking Bros. Inc., Providence, R. I., a corporation of Rhode Island. Filed July 20, 1937. Serial No. 395,463.

Palmer & Madigan

For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials.
Claims use since May 20, 1937.

366,943. (CLASS 39. CLOTHING.) THE FELTMAN & CURME SHOE STORES COMPANY, Chicago, Ill. Filed Oct. 19, 1937. Serial No. 398,670.



For Leather Shoes, Fabric Shoes, and Shoes of Leather and Fabric.
Claims use since August, 1931.

366,944. (CLASS 39. CLOTHING.) THE FELTMAN & CURME SHOE STORES COMPANY, Chicago, Ill. Filed Oct. 19, 1937. Serial No. 398,671.



For Leather Shoes, Fabric Shoes, and Shoes of Leather and Fabric.
Claims use since August, 1931.

366,945. (CLASS 39. CLOTHING.) THE FELTMAN & CURME SHOE STORES COMPANY, Chicago, Ill. Filed Oct. 19, 1937. Serial No. 398,672.



For Leather Shoes, Fabric Shoes, and Shoes of Leather and Fabric.
Claims use since August, 1931.

366,946. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GOTHAM SALES COMPANY INC., New York, N. Y. Filed Nov. 30, 1937. Serial No. 400,298.

A Century of Progress

For Sewing Needles for Hand Use.
Claims use since Aug. 1, 1933.

366,947. (CLASS 39. CLOTHING.) THE NATIONAL GLOVE COMPANY, Columbus, Ohio. Filed Dec. 17, 1937. Serial No. 400,987.

NAPA MAID

For Gloves Made of Leather, Fabric, and Combinations Thereof.
Claims use since Apr. 14, 1931.

366,948. (CLASS 39. CLOTHING.) SEIBERLING LATEX PRODUCTS COMPANY, Barberton, Ohio. Filed Jan. 8, 1938. Serial No. 401,707.

DRYWEAR

For Rubber Baby Pants, Rubber Bibs, and Rubber Bathing Caps.
Claims use since Dec. 11, 1937.

366,949. (CLASS 39. CLOTHING.) SAKS AND COMPANY, New York, N. Y. Filed Jan. 20, 1938. Serial No. 402,143.

Muchacha

For Ladies' Shoes Made of Leather, Fabric, and Combinations of These Materials.
Claims use since Jan. 2, 1938.

366,950. (CLASS 39. CLOTHING.) ARTCRAFT SILK HOSIERY MILLS, INC., Philadelphia, Pa. Filed Jan. 27, 1938. Serial No. 402,360.

Run-No-Mor

For Women's Hosiery.
Claims use since Sept. 1, 1932.

366,951. (CLASS 39. CLOTHING.) ISAAC GINSBERG & BROS., New York, N. Y. Filed Feb. 10, 1938. Serial No. 402,908.

Joan Ward

For Women's Dresses.
Claims use since Jan. 17, 1938.

366,952. (CLASS 39. CLOTHING.) BROADSTREET'S, INC., New York, N. Y. Filed Feb. 11, 1938. Serial No. 402,932.

Wingate

For Men's Dress, Negligee, and Work Shirts and Collars To Be Worn with Such Shirts, Pajamas, Socks, Underwear, and Hats.
Claims use since Dec. 1, 1937.

366,953. (CLASS 39. CLOTHING.) PARAMOUNT DRESS CO., New York, N. Y. Filed Feb. 19, 1938. Serial No. 403,219.

Marion Keith

For Women's and Misses' Dresses and Dress Ensembles Consisting of Dress and Jackets.
Claims use since January, 1937.

366,954. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Feb. 23, 1938. Serial No. 403,304.

Jane Jordan

For Women' and Misses' Dresses.
Claims use since Feb. 7, 1938.

366,955. (CLASS 39. CLOTHING.) KEARNS BROTHERS, INC., Pinckneyville, Ill. Filed Feb. 28, 1938. Serial No. 403,507.

Pinckneyville Maid

For Ladies' and Misses' Dresses.
Claims use since Feb. 21, 1938.

366,956. (CLASS 39. CLOTHING.) FAY-MISS BRASSIERE CO., INC., New York, N. Y. Filed Mar. 5, 1938. Serial No. 403,722.

Bali Bolero

For Brassières.
Claims use since Mar. 1, 1938.

366,957. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES BLOOM, INC., New York, N. Y. Filed Mar. 10, 1938. Serial No. 403,902.

Washglaze

For Chintz Drapery Fabrics in the Piece.
Claims use since Feb. 11, 1938.

366,958. (CLASS 39. CLOTHING.) SAKS & COMPANY, New York, N. Y. Filed Mar. 11, 1938. Serial No. 403,964.

PERFEK
·PUMP·

For Women's and Misses' Shoes Made of Leather, Rubber, Fabric, and Combinations Thereof.
Claims use since Mar. 2, 1938.

366,959. (CLASS 39. CLOTHING.) THE SURETY RUBBER COMPANY, Carrollton, Ohio. Filed Mar. 12, 1938. Serial No. 404,019.

SURETY
TURN-CUFF

For Rubber Gloves for Household and Industrial Use.
Claims use since Jan. 1, 1937.

366,960. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Mar. 18, 1938. Serial No. 404,219.

Shubraid

For Shoe Laces.
Claims use since Mar. 2, 1938.

366,961. (CLASS 39. CLOTHING.) THE RICHTER & PHILLIPS COMPANY, Cincinnati, Ohio. Filed Mar. 23, 1938. Serial No. 404,419.

BRAXTON

For Belts for Outer Wear and in the Nature of Garment Supporters.
Claims use since May, 1919.

366,962. (CLASS 39. CLOTHING.) INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed Mar. 24, 1938. Serial No. 404,443.

"Pull Ups"

For Hosiery.
Claims use since Mar. 17, 1938.

366,963. (CLASS 39. CLOTHING.) A. DE PINNA CO., INC., New York, N. Y. Filed Mar. 25, 1938. Serial No. 404,469.

DACHEL

For Women's and Misses' Gloves of Leather, Fabric, and Combinations Thereof.
Claims use since Feb. 1, 1938.

366,964. (CLASS 39. CLOTHING.) BURNEY EPSTEIN, INC., New York, N. Y. Filed Mar. 30, 1938. Serial No. 404,635.

Companions
A Burney Epstein Product

For Ladies' and Misses' Knitted Dresses, Blouses, and Skirts.
Claims use since Feb. 1, 1938.

366,965. (CLASS 17. TOBACCO PRODUCTS.) THE AXTON-FISHER TOBACCO COMPANY, Louisville, Ky. Filed Apr. 5, 1938. Serial No. 404,884.

LLOYDS

For Cigarettes.
Claims use since Mar. 7, 1938.

366,966. (CLASS 39. CLOTHING.) COMMONWEALTH SHOE AND LEATHER COMPANY, Whitman, Mass. Filed Apr. 6, 1938. Serial No. 404,937.

SLAX....

For Men's Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Feb. 15, 1938.

366,967. (CLASS 39. CLOTHING.) IMPERIAL MANUFACTURING CO., New York, N.Y. Filed Apr. 11, 1938. Serial No. 405,118.

STASNUG

For Girdles, Brassières, and Pantie Girdles.
Claims use since Mar. 16, 1938.

366,968. (CLASS 39. CLOTHING.) THE PIONEER RUBBER COMPANY, Willard, Ohio. Filed Apr. 11, 1938. Serial No. 405,130.

STANZOIL

For Rubber Gloves for Household and Industrial Use.
Claims use since Jan. 28, 1938.

366,969. (CLASS 39. CLOTHING.) SAKS & COMPANY, New York, N. Y. Filed Apr. 12, 1938. Serial No. 405,182.

MODEL SHOO

For Women's and Misses' Shoes Made of Leather, Rubber, or Fabric or Combinations of Said Materials.
Claims use since Feb. 5, 1938.

366,970. (CLASS 39. CLOTHING.) COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Apr. 13, 1938. Serial No. 405,196.

BRITISHER LOUNGE MODEL

For Men's, Boys', and Children's Outer Garments Consisting of Coats, Vests, Pants, and Trousers, also Men's Overcoats and Topcoats, also Women's Overcoats, Topcoats, and Suits Consisting of Outer Coat, Ensemble, Vest, and Skirt.
Claims use since Dec. 1, 1937.

366,971. (CLASS 39. CLOTHING.) BLOOMINGDALE BROS., INC., New York, N. Y. Filed Apr. 19, 1938. Serial No. 405,434.

Hatfield

For Women's Coats, Suits, Dresses, Hats, and Shoes Made of Leather, Fabric, and Combinations Thereof.
Claims use since May 25, 1937.

366,972. (CLASS 39. CLOTHING.) MOLD FORM BRASSIERE, INC., New York, N. Y. Filed May 4, 1938. Serial No. 406,000.

Bust Mold
SPECIALIZED SIZING

For Bandeaus, Brassières, Girdles, Corsets, and Corselets.
Claims use since December, 1937.

366,973. (CLASS 39. CLOTHING.) JACK LORD HATS, INC., New York, N. Y. Filed May 19, 1938. Serial No. 406,519.

Jack Lord

For Men's Hats and Hosiery.
Claims use since February, 1938.

366,974. (CLASS 39. CLOTHING.) WEMBLEY, INC., New Orleans, La. Filed May 19, 1938. Serial No. 406,538.



For Cravats.
Claims use since 1928.

366,975. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) TRAUX-TRAER COAL COMPANY, Chicago, Ill. Filed June 9, 1938. Serial No. 407,286.



For Coal.
Claims use since Dec. 1, 1937.

366,976. (CLASS 32. FURNITURE AND UPHOLSTERY.) CHAIRS INCORPORATED, New York, N. Y. Filed June 30, 1938. Serial No. 408,049.

MULTICOVER

For Articles of Furniture—Namely, Upholstered Chairs, Settees, Sofas, Love-Seats, and Lounges.
Claims use since May 1, 1937.

366,977. (CLASS 39. CLOTHING.) BEST & CO., INC., New York, N. Y. Filed July 12, 1938. Serial No. 408,415.

twin sheers

For Hosiery.
Claims use since Mar. 25, 1938.

366,978. (CLASS 39. CLOTHING.) ST. JOSEPH HAT & CAP COMPANY, St. Joseph, Mo. Filed July 25, 1938. Serial No. 408,902.



For Men's and Boys' Headwear—Namely, Hats and Caps.
Claims use since January, 1937.

366,979. (CLASS 39. CLOTHING.) TERMAN STORES CORPORATION, Chicago, Ill. Filed Aug. 18, 1938. Serial No. 409,751.

Lady Lynn

For Ladies' Hosiery.
Claims use since Sept. 27, 1937.

366,980. (CLASS 39. CLOTHING.) MARLBORO SHIRT COMPANY, INC., Baltimore, Md. Filed Aug. 24, 1938. Serial No. 409,928.

FINIŔ DE VELOUR

by Marlboro

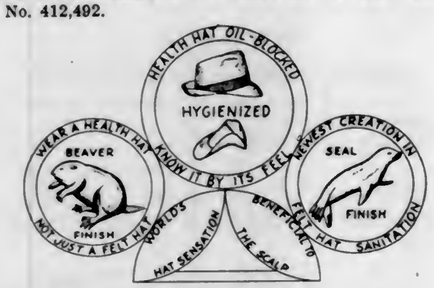
For Outer Shirts for Men and Boys.
Claims use since May 15, 1937.

366,981. (CLASS 39. CLOTHING.) W. T. GRANT COMPANY, New York, N. Y. Filed Sept. 13, 1938. Serial No. 410,504.

Clinton

For Men's and Boys' Hose.
Claims use since July 17, 1934.

366,982. (CLASS 39. CLOTHING.) CHARLES S. BROWER, Philadelphia, Pa. Filed Nov. 8, 1938. Serial No. 412,492.



For Men's and Women's Hats.
Claims use since September, 1936.

366,983. (CLASS 39. CLOTHING.) LOUIS WALD, doing business as Jay Lord Hatters, New York, N. Y. Filed Nov. 10, 1938. Serial No. 412,620.



For Men's Hats Excepting Top Hats.
Claims use since Feb. 10, 1935.

366,984. (CLASS 39. CLOTHING.) INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Nov. 29, 1938. Serial No. 413,267.



For Boots and Shoes of Leather, Fabric, and/or Combinations Thereof.
Claims use since Aug. 3, 1936.

366,985. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 5, 1938. Serial No. 413,503.

FITZGIBBONSAIRE

For Heating and Air Conditioning Units.
Claims use since May 6, 1936.

366,986. (CLASS 39. CLOTHING.) PAUKER BOYSWEAR CORP., New York, N. Y. Filed Dec. 17, 1938. Serial No. 413,956.



The drawing is lined for red.
For Boys' Knitwear—Namely, Sweaters, Trousers, Trunks, Suits, and Bathing Suits, also Polo Shirts, Sweat Shirts, and Neckties.
Claims use since 1928.

366,987. (CLASS 39. CLOTHING.) WILLIAM MAYER, doing business as H. & M. Neckwear Co., New York, N. Y. Filed Dec. 21, 1938. Serial No. 414,076.

STAYWELL

For Ready-Tied Neckties.
Claims use since 1933.

366,988. (CLASS 39. CLOTHING.) THE NEUSTETER CO., Denver, Colo. Filed Dec. 23, 1938. Serial No. 414,159.

Mitzi Morgan

For Dresses, Wraps, Jackets, Coats, Scarfs, Suits, Corsets, Underwear, Negligees, Shoes of Leather, Fabric, or Combinations Thereof, Hats, Berets, Gloves of Leather, Fabric, or Combinations Thereof, Handkerchiefs, Hosiery, Collars, Blouses, Slacks, Bathing Suits, Skirts, Shorts, and Sweaters for the Use of Women.
Claims use since Mar. 6, 1936.

366,989. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) HUDSON FUR DYEING COMPANY, Newark, N. J. Filed Dec. 28, 1938. Serial No. 414,319.

JAPOMINK

For Fur Skins.
Claims use since Oct. 4, 1937.

366,990. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WALTER L. THADA, doing business as Runway Trap Co., Klemme, Iowa. Filed Jan. 9, 1939. Serial No. 414,647.

RUNWAY

For Mouse Traps.
Claims use since Oct. 1, 1933.

366,991. (CLASS 39. CLOTHING.) CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Jan. 11, 1939. Serial No. 414,689.

Milano Twill

For Neckties.
Claims use since November, 1937.

366,992. (CLASS 39. CLOTHING.) BUTLER BROTHERS, Chicago, Ill. Filed Jan. 14, 1939. Serial No. 414,817.

MONEYSWORTH

For Men's Work Clothing—Namely, Shirts, Overalls, Gloves, Caps, Shoes, and Socks, and Men's Underwear.
Claims use since 1904.

366,993. (CLASS 32. FURNITURE AND UPHOLSTERY.) FRANK R. HENDRICKS, doing business as Majestic Venetian Blind Mfrs., Puyallup, Wash. Filed Jan. 19, 1939. Serial No. 414,995.

Majestic

For Venetian Blinds.
Claims use since Sept. 20, 1937.

366,994. (CLASS 39. CLOTHING.) W. P. FORTUNE, INC., New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,215.

EL MOROCCO

For Women's and Misses' Hats.
Claims use since Dec. 13, 1937.

366,995. (CLASS 39. CLOTHING.) FOX-KNAPP CORPORATION, New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,216.

MONTEREY
Hollywood Styled

For Men's and Women's Sportswear—Namely, Sport Slacks, Sport Coats, and Ensembles Thereof.
Claims use since Dec. 1, 1935.

366,996. (CLASS 39. CLOTHING.) IRVING GEIST, New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,218.

DRESDEN DOLL
BLOUSE

For Ladies' Blouses and Dresses.
Claims use since Oct. 25, 1937.

366,997. (CLASS 39. CLOTHING.) JOSEPH GUTTMAN & BROS., INC., New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,219.

SPONGE
A JOSEPH GUTTMAN & BROS. INC. KNIT PRODUCT

For Ladies' and Misses' Knitted Dresses, Blouses, Skirts, Slacks, and Sweaters.
Claims use since Dec. 30, 1937.

366,998. (CLASS 39. CLOTHING.) LEVIN, HARRIS, SMITH, INC., New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,222.

Greeley Square

For Men's Outer Shirts, Pyjamas.
Claims use since Dec. 1, 1936.

366,999. (CLASS 39. CLOTHING.) LEVIN, HARRIS, SMITH, INC., New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,223.

Oak Park

For Men's Outer Shirts, Pyjamas.
Claims use since Dec. 1, 1936.

367,000. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) WILLIAM A. BROWN, Philadelphia, Pa. Filed Feb. 2, 1939. Serial No. 415,496.

CONDITIONAIRLAMP

For Air Conditioning Devices in the Form of a Support Carrying Illuminating Means and Air Propelling Means, in Some Cases Surrounded by a Guard or Shade.
Claims use since July 13, 1933.

367,001. (CLASS 39. CLOTHING.) AFFILIATED CLOTHIERS, INC., New York, N. Y. Filed Feb. 7, 1939. Serial No. 415,688.

Trophy

For Men's and Boys' Clothing—Namely, Topcoats, Trousers, Suits, Overcoats, Jackets, Raincoats, Negligee Shirts, (These Being Top or Business Shirts), Hosiery, Lounging Robes and Bathrobes, Leather and Fabric Gloves, Men's Neckties, and Sweaters.
Claims use since 1932 on negligee shirts; since 1933 on gloves; and since 1931 on the remaining goods.

367,002. (CLASS 39. CLOTHING.) BLOOMINGDALE BROS., INC., New York, N. Y. Filed Feb. 7, 1939. Serial No. 415,698.

Betty Brompton

For Women's Hats, Dresses, Coats, Suits, and Shoes Made of Leather, Fabric, and Combinations Thereof.
Claims use since Jan. 17, 1938.

367,003. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DORSET WOOLEN COMPANY, Slocum, R. I. Filed Feb. 17, 1939. Serial No. 416,138.

DUNBAR

For Woven Woolen Piece Goods for Women's Wear.
Claims use since October, 1936.

TRADE-MARK REGISTRATIONS RENEWED

124,569. CERTAIN NAMED SPORTING GOODS. Registered February 25, 1919. NORTHLAND SKI MANUFACTURING COMPANY, St. Paul, Minn., a corporation of Minnesota. Renewed February 25, 1939.

124,861. COFFEE AND TEA. Registered March 18, 1919. JAMES A. MCATEER & SONS, INC. Renewed March 18, 1939, to George L. Neff, Jr., Pittsburgh, Pa., assignee by mesne assignments.

124,945. DENTAL CHAIRS. Registered March 25, 1919. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed March 25, 1939.

124,989. FIRE-BRICK CEMENT. Registered April 1, 1919. REFRACTORIES COMPANY, New York, N. Y. Renewed April 1, 1939, to Sanford C. Smith Refractories, Inc., Buffalo, N. Y., a corporation of New York, assignee by mesne assignments.

125,191. BROOMS. Registered April 22, 1919. THE COLORADO INDUSTRIAL WORKSHOP FOR THE BLIND, Denver, Colo., a corporation of Colorado. Renewed April 22, 1939.

125,449. CANNED SARDINES AND CANNED TUNA FISH. Registered May 20, 1919. K. HOVDEN CO. Renewed May 20, 1939, to Hovden Food Products Corporation, Monterey, Calif., a corporation of California, assignee by mesne assignments.

125,450. CANNED SARDINES AND CANNED TUNA FISH. Registered May 20, 1919. K. HOVDEN CO. Renewed May 20, 1939, to Hovden Food Products Corporation, Monterey, Calif., a corporation of California, assignee by mesne assignments.

125,753. COFFEE, TEA, COCOA, LEMON EXTRACT AND VANILLA EXTRACT FOR FLAVORING FOODS. Registered June 10, 1919. GEORGE LAWSON NEFF. Renewed June 10, 1939, to George L. Neff, Jr., Pittsburgh, Pa., successor.

125,809. EMOLLIENT TABLETS FOR TREATMENT OF THE SKIN. Registered June 17, 1919. F. W. HAMPSHIRE & CO. LTD. Renewed June 17, 1939, to F. W. Hampshire & Co. Ltd., Derby, England, a corporation of Great Britain, assignee.

125,925. POPPING-CORN. Registered July 15, 1919. AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa. Renewed July 15, 1939, to American Pop Corn Company, Sioux City, Iowa, a corporation of Iowa, assignee.

125,927. POPPING-CORN. Registered July 15, 1919. AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa. Renewed July 15, 1939, to American Pop Corn Company, Sioux City, Iowa, a corporation of Iowa, assignee.

126,040. SILVER-PLATED HOLLOW WARE AND SILVER-PLATED TABLEWARE. Registered July 22, 1919. THE MIDDLETOWN SILVER COMPANY. Renewed July 22, 1939, to The Middletown Silver Company, Middletown, Conn., a corporation of Connecticut, assignee.

126,083. CERTAIN NAMED OILS FOR ILLUMINATING, BURNING, POWER, FUEL, AND LUBRICATING PURPOSES. Registered July 22, 1919. SINCLAIR REFINING COMPANY, Chicago, Ill. Renewed July 22, 1939, to Sinclair Refining Company, New York, N. Y., a corporation of Maine.

126,124. POPPING-CORN. Registered July 29, 1919. AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa. Renewed July 29, 1939, to American Pop Corn Company, Sioux City, Iowa, a corporation of Iowa, assignee.

126,147. DESICCATED MILK. Registered July 29, 1919. THE DRY MILK COMPANY. Renewed July 29, 1939, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

126,399. THREAD-WAXING COMPOUND. Registered August 26, 1919. THE CEROXYLON COMPANY, Boston, Mass. Renewed August 26, 1939, to The Ceroxylon Company, Keene, N. H., a firm.

126,463. FACE-POWDER AND TALCUM POWDER. Registered August 26, 1919. PENINSULAR CHEMICAL CO. Renewed August 26, 1939, to The Penslar Company, Detroit, Mich., a corporation of Michigan.

126,469. DECOLORIZING-CARBON FOR USE IN DECOLORIZING AND CLARIFYING MATERIALS. Registered August 26, 1919. REFINING PRODUCTS CORPORATION, New York, N. Y. Renewed August 26, 1939, to Darco Corporation, Wilmington, Del., a corporation of Delaware, assignee.

126,514. COTTON PIECE GOODS. Registered September 16, 1919. BOOTT MILLS, Lowell, Mass., a corporation of Massachusetts. Renewed September 16, 1939.

126,600. ARTIFICIAL LEATHER. Registered September 23, 1919. THE KERATOL COMPANY, Newark, N. J., a corporation of New Jersey. Renewed September 23, 1939.

126,640. PARCEL-POST MAILING-ENVELOPS. Registered September 30, 1919. BEMIS BRO. BAG COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 30, 1939.

126,697. CERTAIN NAMED CONSTRUCTION MATERIALS. Registered September 30, 1919. H. H. HOPKINS COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 30, 1939.

126,700. A MEDICINAL PREPARATION FOR THE ALLEVIATION OF SYSTEMIC BLOOD DISORDERS. Registered September 30, 1919. CHARLES M. JACOBS, Springfield, Mass. Renewed September 30, 1939.

126,709. CURED AND SMOKED CLEAR-PLATE PORK. Registered September 30, 1919. KOHRS PACKING COMPANY, Davenport, Iowa, a corporation of Iowa. Renewed September 30, 1939.

126,747. MOLASSES AND TABLE-SYRUPS. Registered September 30, 1919. PENICK & FORD, LTD., New Orleans, La. Renewed September 30, 1939, to Penick & Ford, Ltd. Incorporated, New York, N. Y., a corporation of Delaware, assignee.

LABELS

REGISTERED MAY 2, 1939

52,883.—*Title:* TOPS. For Bathing Caps. THE BARR RUBBER PRODUCTS COMPANY, Sandusky, Ohio. Published June 24, 1938.

52,884.—*Title:* STURDILINE. For Cartons. BIRD & SON, INC., East Walpole, Mass. Published March 22, 1939.

52,885.—*Title:* BRUTON BREWMASTER SPECIAL BEER. For Beer. THE BRUTON BREWING COMPANY, Baltimore, Md. Published March 27, 1939.

52,886.—*Title:* BEST CIRCLES. For Unsweetened Lemon Juice. CALIFORNIA CONSUMERS CORPORATION, Los Angeles, Calif. Published March 14, 1939.

52,887.—*Title:* BRIDGES DATED FRESH EGGS. For Fresh Eggs. CALVIN BRIDGES, Springfield, Mass. Published September 27, 1938.

52,888.—*Title:* FINE FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING CO., St. Louis, Mo. Published April 1, 1939.

52,889.—*Title:* DAVIDSON'S MAGIC DANDRUFF CREAM. For a Dandruff Cream. ABE DAVIDSON, doing business as Magic Cream Company, New York, N. Y. Published March 10, 1939.

52,890.—*Title:* DUGAN'S COFFEE CAKE. For Coffee Cake. DUGAN BROS. OF NEW JERSEY INC., Newark, N. J., and Queens Village, N. Y. Published September 19, 1938.

52,891.—*Title:* NEW YORK WORLD'S FAIR BULLET CAMERA. For Cameras. EASTMAN KODAK COMPANY, Rochester, N. Y. Published April 3, 1939.

52,892.—*Title:* GEAR SAFETY "28". For an All Purpose Lubricant for All Types of Automotive and Industrial Gear Units. THE ELCO GREASE AND OIL COMPANY, Cleveland, Ohio. Published March 28, 1939.

52,893.—*Title:* RIC-O-LAC. For Castor Oil 50% Emulsified in an Aqueous Solution. EMULSIFIED PRODUCTS, INC., Jersey City, N. J. Published March 20, 1939.

52,894.—*Title:* GIANT TIGER-AMERICA'S LARGEST SAVING CENTERS. For Grape Soda. GIANT TIGER CORPORATION, Philadelphia, Pa. Published March 16, 1939.

52,895.—*Title:* GIANT TIGER—AMERICA'S GREATEST SUPER MARKETS. For Grape Soda. GIANT TIGER CORPORATION, Philadelphia, Pa. Published March 16, 1939.

52,896.—*Title:* PARTY. For Popcorn. JOHN HAMILTON, doing business as Party Products Co., Washington, D. C. Published December 1, 1938.

52,897.—*Title:* APPLE ACES. For Apples. F. PALMER HART, Red Hook, N. Y. Published July 19, 1938.

52,898.—*Title:* DIXIE-DOODLE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 13, 1939.

52,899.—*Title:* MEXICAN HUARACHE SANDALS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 9, 1939.

52,900.—*Title:* SUNRISE SANDAL OF 1940. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 18, 1939.

52,901.—*Title:* TRAIL-MAKER. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 5, 1939.

52,902.—*Title:* THEY SEE THE BOX FIRST. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 13, 1938.

52,903.—*Title:* BOOTS OF CHARACTER. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 7, 1938.

52,904.—*Title:* THEY SEE THE BOX FIRST. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1939.

52,905.—*Title:* WALK-O-PEDIC SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1939.

52,906.—*Title:* NATURAL CROSS SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 29, 1938.

52,907.—*Title:* LA CONGA. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 3, 1939.

52,908.—*Title:* HB. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 26, 1939.

52,909.—*Title:* TRI POINT SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 18, 1939.

52,910.—*Title:* BARBARA JANE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 16, 1939.

52,911.—*Title:* MARCO POLO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 5, 1939.

52,912.—*Title:* KNOE KAP. For Pinon-Nuts. HAROLD JENKINS, Tuba City, Ariz. Published March 8, 1939.

52,913.—*Title:* CINNA BUTTER. For a Mix of Sweet Cream Butter with Sugar and Cinnamon. LOCKSHORE FARMS, INC., Kalamazoo, Mich. Published February 5, 1938.

52,914.—*Title:* MARATHON BEER. For Beer. MARATHON CITY BREWING COMPANY, Marathon City, Wis. Published January 30, 1939.

52,915.—*Title:* MARKUS VELVETEEN. For Face Cream. CHARLES I. MARKUS, Los Angeles, Calif. Published March 15, 1939.

52,916.—*Title:* MELVILLE DAIRY HIGHEST QUALITY BUTTER. For Butter. MELVILLE DAIRY, Burlington, N. C. Published March 1, 1939.

52,917.—*Title:* LADY FRANCES. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published July 12, 1938.

52,918.—*Title:* LUSTIG'S CO-ED. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published May 17, 1937.

52,919.—*Title:* THE MOLLY STARK. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published March 15, 1938.

52,920.—*Title:* SOCIAL-LITE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published February 23, 1938.

52,921.—*Title:* M. J. SAKS SHOE CORP. TRED-MODE. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published July 8, 1937.

52,922.—*Title:* DE LUXE. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published February 21, 1939.

52,923.—*Title:* DA. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published June 14, 1938.

52,924.—*Title:* NEW YORK CUSTOM MADE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published June 14, 1938.

52,925.—*Title:* GIBBS ARCH BUILDER. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published April 29, 1937.

52,926.—*Title:* DOROTHY MAY. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published January 19, 1938.

52,927.—*Title:* ENSCO. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published June 24, 1937.

52,928.—*Title:* HOLLYWOOD STYLED. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published February 9, 1939.

52,929.—*Title:* DIAL. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published August 24, 1938.

52,930.—*Title:* YOUTHFUL MODE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published November 7, 1938.

52,931.—*Title:* BACH SHOE CO. HOLLYWOOD STYLES. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published March 3, 1939.

52,932.—*Title:* SMART FOOTWEAR. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published December 22, 1937.

52,933.—*Title:* McHENRY. For Pennsylvania Straight Rye Whiskey. MID-VALLEY DISTILLING CORP., Archbald, Pa. Published March 17, 1939.

52,934.—*Title:* HYDRO-LOC BRAKE FLUID. For Hydraulic Brake Fluid for Use in All Types of Hydraulic Brakes. NEW CHEMICAL COMPANY, Allentown, Pa. Published February 2, 1939.

52,935.—*Title:* OVENMASTER THE PERFECT BREAD. For Bread. PIONEER BAKING COMPANY, Paterson, N. J. Published March 1, 1939.

52,936.—*Title:* CHIEF. For Rolled Oats. PURITY OATS COMPANY, Keokuk, Iowa. Published February 1, 1939.

52,937.—*Title:* PURITY. For Rolled Oats. PURITY OATS COMPANY, Keokuk, Iowa. Published March 10, 1939.

52,938.—*Title:* TRIANON. For Hand Creme. LEONARD L. ROBERTS, doing business as Roberts Laboratories, Denver, Colo. Published November 1, 1938.

52,939.—*Title:* NEW YORK STATE WHITE WINE NO. 45. For New York State White Wine. THE TAYLOR WINE COMPANY, Hammondsport, N. Y. Published January 5, 1939.

52,940.—*Title:* "BLACK LEAF" WORM POWDER. For a Scientifically Prepared Dry Compound of Nicotine That is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION INCORPORATED, Louisville, Ky. Published March 6, 1939.

52,941.—*Title:* "BLACK LEAF" WORM POWDER. For a Scientifically Prepared Dry Compound of Nicotine That is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION INCORPORATED, Louisville, Ky. Published March 6, 1939.

52,942.—*Title:* NICO-FUME LIQUID. For a Highly Refined Solution of 'Free' Nicotine. TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION INCORPORATED, Louisville, Ky. Published March 29, 1939.

52,943.—*Title:* NICO-FUME TOBACCO-PAPER INSECTICIDE. For Tobacco-Paper Insecticide for Fumigating Greenhouses. TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION INCORPORATED, Louisville, Ky. Published March 29, 1939.

52,944.—*Title:* BUDAPEST BRAND. For Ale. TRU-BLU BOTTLERS, Charleston, S. C. Published March 23, 1939.

PRINTS

REGISTERED MAY 2, 1939

17,369.—*Title:* LOOK FOR THE SIGN OF THE COSDEN TRAFFIC COP. For Gasoline and Motor Oil. COSDEN PETROLEUM CORPORATION, Fort Worth, Tex. Published January 1, 1938.

17,370.—*Title:* LOVELIER LINES FOR EVERY FIGURE. For Brassières. FAY-MISS BRASSIERE CO., INC., New York, N. Y. Published February 21, 1939.

17,371.—*Title:* KILLS ROACHES AND MANY OTHER HOUSEHOLD PESTS. For Roach Powder, Ant Syrup and Rat Bait. HENRY HAMBURGER, Baltimore, Md. Published March 15, 1939.

17,372.—*Title:* GENUINE FIESTA ENSEMBLE. For Colored Dinnerware, Glassware, and Cutlery. THE HOMER LAUGHLIN CHINA CO., Newell, W. Va. Published December 17, 1938.

17,373.—*Title:* AMERICA'S MOST POPULAR GIFT PEN—BY FAR—IS THE FAMOUS PARKER. For Fountain Pens, Mechanical Pencils, and Ink. THE PARKER PEN COMPANY, Janesville, Wis. Published April 1, 1939.

17,374.—*Title:* DOUBLE ELECTRIC LIFE COMES OUT. For Batteries. CHARLES ANDREW PAULSON, San Francisco, Calif. Published March 23, 1939.

17,375.—*Title:* LIKE QUIZ GAMES? 'CEREAL AND FRUIT' (MAILING CARD). For Cereal. LLOYD M. SKINNER, doing business as Skinner Manufacturing Company, Omaha, Nebr. Published March 8, 1939.

17,376.—*Title:* CAPTURED FLAVOR. For Wines. THE TAYLOR WINE COMPANY, Hammondsport, N. Y. Published March 1, 1939.

17,377.—*Title:* ON YOUR WAY TO THE N. Y. WORLD'S FAIR. For Wines. THE TAYLOR WINE COMPANY, Hammondsport, N. Y. Published March 13, 1939.

21,064

PROCESS FOR PURIFYING HORMONES

Max Hartmann, Riehen, near Basel, and Albert Wettstein, Basel, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Original No. 2,062,904, dated December 1, 1936, Serial No. 741,504, August 25, 1934. Application for reissue September 6, 1938, Serial No. 228,636. In Switzerland September 6, 1933

10 Claims. (Cl. 260—397)

1. Process for purifying the hormones of the corpus luteum, which comprises causing a preparation containing the hormones to react with a specific reagent for the keto group, separating the reaction product from the portions which have not reacted by means of solvents and decomposing it by hydrolyzing agents in order to liberate the hormones.

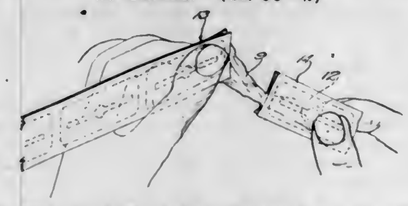
21,065

DISPENSING DEVICE FOR SHEET RUBBER DEPOSITED FROM AN AQUEOUS DISPERSION OF RUBBER AND THE PROCESS OF FORMING AND USING SAME

Lloyd G. Copeman, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan

Original No. 2,075,178, dated March 30, 1937, Serial No. 755,762, December 3, 1934. Application for reissue March 10, 1939, Serial No. 261,122

20 Claims. (Cl. 93—2)



1. The method of forming a sheet of rubber and temporarily holding but subsequently dispensing same, which comprises coating one surface of a sheet of fibrous material such as paper with a layer of an aqueous dispersion of rubber, superimposing a layer of fibrous material upon the opposite side of the layer of rubber while still tacky, depositing the rubber from said aqueous dispersion of rubber as a thin membrane of rubber bonded to said two sheets of fibrous material, and then releasing the membrane of rubber from between said two sheets and separating the sheets by applying tension to said membrane greater than the bonding action between the membrane and the sheets of material.

21,066

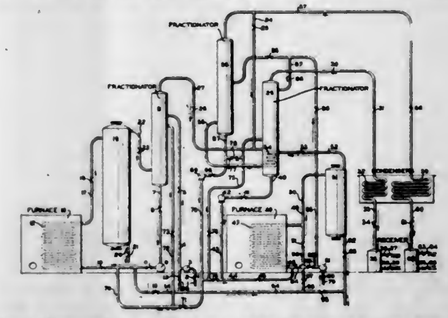
CONVERSION OF HYDROCARBON OILS

Lyman C. Huff, Chicago, Ill., assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Original No. 2,064,834, dated December 22, 1936. Serial No. 506,136, January 2, 1931. Renewed March 4, 1936. Application for reissue August 18, 1937, Serial No. 159,731

4 Claims. (Cl. 196—48)

1. A conversion process which comprises subjecting hydrocarbon oil to cracking conditions of temperature and pressure in a primary zone, simultaneously cracking a lighter oil at higher temperature in a secondary cracking zone, subjecting the vapors evolved in said zones to independent primary fractionation in separate fractionating zones and supplying reflux condensate



thus formed in said separate fractionating zones to said primary zone, then combining the separately fractionated vapors and subjecting the same to common secondary fractionation, supplying resultant secondary reflux condensate to said secondary cracking zone, and finally condensing the vapors uncondensed by said common secondary fractionation.

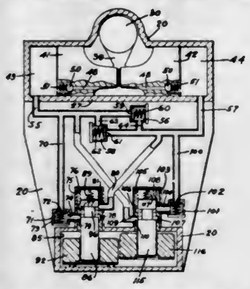
21,067

SHOCK ABSORBER

Carl H. Kindl, Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware

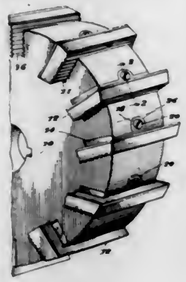
Original No. 1,945,046, dated January 30, 1934, Serial No. 561,322, September 5, 1931. Application for reissue September 12, 1938, Serial No. 229,620

27 Claims. (Cl. 188—88)



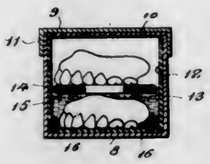
1. A shock absorber comprising, in combination, a casing providing a fluid reservoir and a cylinder; a piston in said cylinder forming a compression chamber therein; a piston reciprocating member; means adapted, in response to fluid pressure, to establish a flow of fluid from the compression chamber; and means, separate from and independent of said first mentioned means, which is adapted in response to vertical oscillations of the casing, to restrict said flow of fluid from the compression chamber.

21,068
ROTARY CUTTER
Frank P. Miller, Meadville, Pa.
Original No. 1,681,675, dated August 21, 1928, Serial No. 30,782, May 16, 1925. Application for reissue December 1, 1938, Serial No. 243,440
8 Claims. (Cl. 29—105)



1. A cutter comprising a body having a slot, a blade and a wedge in the slot and having the opposed sides thereof flatly in contact, the wedge being provided with a boss, and a screw threaded through the boss substantially parallel to the plane of the blade and engaging the bottom wall of the slot to urge the wedge outwardly whereby one side of the wedge is flatly in binding engagement throughout with the opposed side of the blade.

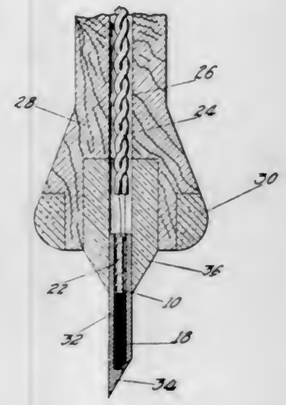
21,069
DENTURE CLEANING DEVICE
Domenick Pellegrini, New York, N. Y.
Original No. 2,102,643, dated December 21, 1937, Serial No. 68,739, March 13, 1936. Application for reissue January 10, 1938, Serial No. 184,345
5 Claims. (Cl. 15—104)



1. A denture cleaning device comprising a receptacle in which a denture can be loosely placed, a closure for the receptacle, said receptacle and closure having a substantially thick resilient lining and a multiplicity of pellets in the receptacle for direct abrasive contact with the denture upon agitation of the receptacle, certain of said pellets having forcible contact with the linings whereby to provide rebound of the pellets.

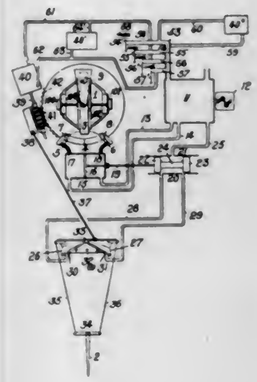
21,070
HEATING ELEMENT
Frank Raffles, Chicago, Ill.
Original No. 2,014,196, dated September 10, 1935, Serial No. 709,639, February 3, 1934. Application for reissue June 29, 1937, Serial No. 151,022
3 Claims. (Cl. 219—26)

1. A heating element, including an insulating tube, a high resistance wire passing through the tube and extending out of the end thereof and terminating in windings around the exterior of said tube end, together with a refractory cement surrounding the wire and maintaining the same in position on the support, and insulating each coil from adjacent coils, and a metal tube in



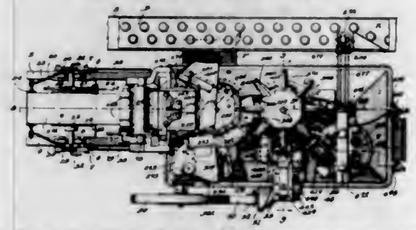
which said heating element is positioned, the end of said metal tube being exteriorly and interiorly beveled, and a corresponding bevel at the end of the support for the resistance wire, a length of said resistance wire being positioned in said last-named bevel.

21,071
AUTOMATIC PILOT FOR AIRCRAFT
Lawrence B. Sperry, deceased, late of Garden City, N. Y., by Sperry Gyroscope Company, Inc., mesne assignee, Brooklyn, N. Y., a corporation of New York
Original No. 1,887,335, dated November 8, 1932, Serial No. 405,939, November 9, 1929, which is a continuation of Serial No. 628,781, March 30, 1923. Application for reissue May 19, 1936, Serial No. 80,585
15 Claims. (Cl. 244—78)



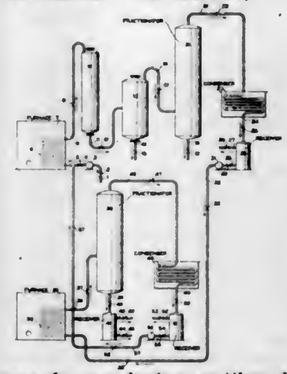
1. In a control system for aircraft, a pressure source, means connected with said source for actuating a control surface, means connected with said source for controlling said actuating means responsive to pressure changes, a free, directional gyroscope, a port and shutter device the relative positions of which are controlled by the relative position of the gyroscope and craft for differentially effecting pressure changes in said latter means, and means for altering the relation between the gyroscope and device for effecting changes in course through the gyroscope and without disturbing the position of the gyroscope.

21,072
PAPER-CUP-MAKING MACHINE
Edwin G. Wessman, Easton, Pa., and Henry A. Stone, Mays Landing, N. J., assignors, by mesne assignments, to Dixie-Vortex Company, Chicago, Ill., a corporation of Delaware
Original No. 1,766,420, dated June 24, 1930, Serial No. 629,783, April 4, 1923. Application for reissue September 3, 1938, Serial No. 228,446
168 Claims. (Cl. 93—39.3)



3. In a machine for making paper cups, means for cutting paper to form a side blank, a mandrel, means cooperatively related to the mandrel to cut paper to form a complemental bottom blank and provide the same with a peripheral flange having immediate overlapping relationship with the mandrel, and means for folding and securing the side blank around the mandrel and coincidently around the flanged bottom blank to enable completion of the cup without removal of the formed body from the mandrel.

21,073
CONVERSION OF HYDROCARBONS
Hans Tropsch, deceased, late of Chicago, Ill., by Carl W. von Helmolt, Chicago, Ill., administrator de bonis non, assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Original No. 2,069,785, dated February 9, 1937, Serial No. 702,433, December 15, 1933. Application for reissue August 1, 1938, Serial No. 222,476
14 Claims. (Cl. 196—10)



5. A process for producing antiknock motor fuel from a normally gaseous hydrocarbon mixture having an average molecular weight between 50 and 60 and comprised predominantly of paraffins of more than two and less than five carbon atoms per molecule, which comprises subjecting said mixture to pyrolytic conversion such as to convert a portion thereof into gasoline boiling hydrocarbons, controlling the reaction conditions of temperature, pressure and time in the conversion step so as to effect the conversion of no more than 50% of the paraffins initially present in said mixture, and separating from the effluent of the conversion step normally liquid hydrocarbons in the gasoline boiling range.

PATENTS

GRANTED MAY 2, 1939

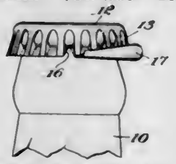
2,156,257
CHANGEABLE SIGN AND LETTERS THEREFOR
Benjamin H. Adler, Chicago, Ill.
Application April 24, 1936, Serial No. 76,231
8 Claims. (Cl. 40—140)



3. A changeable sign comprising a frame, a glass therein, a light behind said glass, separated channels associated with said frame, with their open edges facing each other, said channels having front and rear walls between which the letters are received, a letter having lugs at both ends located at one side of the longitudinal plane extending through the center of the letter, which fit into said channels, the space between the bottom of the lower channel and the topmost part of the upper channel being greater than the distance between the top of the upper lug and the bottom of the lower lug on said letter, so that the letter may be inserted from the front into said channels, the lug at one end being a laterally projecting lug which projects laterally beyond the portion of the letter with which it is connected, so as to engage the channel and prevent the letter from tilting so as to become displaced.

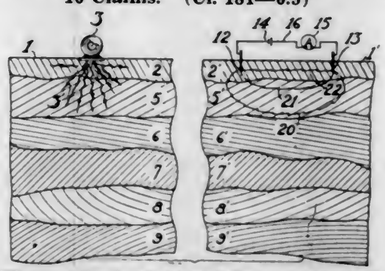
8. A changeable sign comprising a frame, a letter supporting device carried thereby having a plurality of sections provided with vertically extending members and longitudinal channel shaped members upon which the letters are suspended, the channels of the end sections and the adjacent sections slidably mounted one within the other, so that they may be moved relatively to vary the distance between the end vertical member and the adjacent vertical member so that the letter supporting device may be inserted in a space less in length than the length of a plurality of full length sections.

2,156,258
BOTTLE CAP
Morgan C. Atwood, New Orleans, La.
Application March 22, 1938, Serial No. 197,486
1 Claim. (Cl. 215—46)



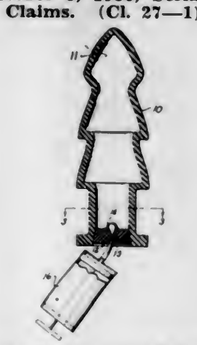
A bottle cap including a disc top, a corrugated skirt adapted to be crimped over the bead of a bottle neck, a sealing disc confined against the bottom face of the disc top, there being tearing scores formed at diametrically opposite points in the skirt and extending from the edge of the skirt upwardly approximately to the sealing disc, and a rolled up edge portion formed on one side only of the skirt and adapted to extend outwardly beyond the bead of the bottle neck, said rolled up edge portion increasing in width from nothing at said scores to about a maximum of twice the depth of the corrugations in the skirt at the center of the rolled up edge portion, said rolled up edge portion forming a crescent shaped grip adapted to be manually grasped and pulled upward for severing the skirt at the scores to dislodge the cap from a bottle neck.

2,156,259
SEISMIC-ELECTRIC PROSPECTING BY MEANS OF CONTINUED WAVES
Ludwig W. Blau, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 22, 1934, Serial No. 758,736
10 Claims. (Cl. 181—0.5)



1. The method of ascertaining anomalies in the earth's substructure which comprises applying periodic impulses to the earth at a given point, thereby sending waves through the ground, receiving the waves from the ground at a point removed from the sending point, recording a phase characteristic of said received waves at said receiving point, independently recording, at said receiving point, a phase characteristic of additional waves having a constant phase relation with the applied impulses and observing the phase relation between the received waves and said additional waves.

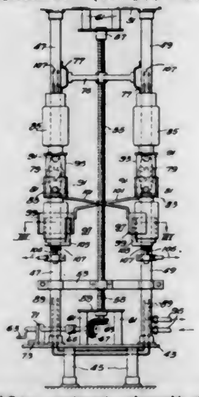
2,156,260
MORTUARY DEVICE
Paul W. Crothers, Cleveland, Ohio, assignor to Dr. G. H. Michel and Co., Inc., Cleveland, Ohio, a corporation of Ohio
Application October 8, 1936, Serial No. 104,606
6 Claims. (Cl. 27—1)



1. A mortuary device comprising a relatively

rigid elongated plug insertable into an opening in a corpse, and having a head portion tapered in the direction of insertion and peripheral anchor portions flaring outwardly opposite from the direction of insertion and terminating in relatively abruptly inwardly extending shoulders and having a shoulder facing opposite to the first shoulders and spaced therefrom to accommodate therebetween the tissue defining the said opening and limit the degree of insertion, said plug being of resilient rubber composition and having an internal cavity which is elongated axially of the plug, means for admitting fluid under pressure into the cavity for expanding the plug in directions radially of the plug into sealing relation to the organic tissue of the corpse defining the opening with a degree of pressure sufficient to prevent leakage of fluids through the opening under pressure created in the corpse by the insertion of embalming fluids, and means for sealing the pressure fluid in the plug cavity.

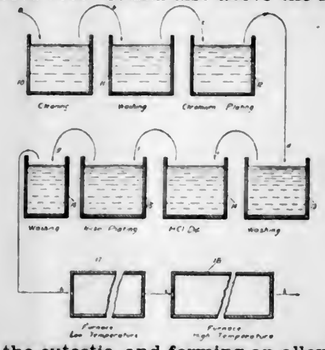
2,156,261
RESONANT CIRCUIT FOR ULTRA HIGH FREQUENCY AMPLIFIERS
John Evans, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 13, 1936, Serial No. 85,019
2 Claims. (Cl. 179—171)



1. An amplifier output circuit for ultra high frequencies including, in combination, a pair of thermionic tubes having grid, a grid lead, cathode and water-cooled anode electrodes, a pair of parallel conductors, means connecting said anode electrodes to said conductors, bridging members connecting said conductors and positioned on either side of said anode connections, means at ground potential for simultaneously adjusting said bridging members, cross-connected neutralizing capacitors supported from said anodes and said grid leads comprising inner and outer semi-cylindrical plates, one of which is rotatable about its axis to provide a coarse capacity adjustment, and independently movable axially to provide a vernier adjustment, and means extending within said parallel conductors and said anode connections for water cooling said anodes.

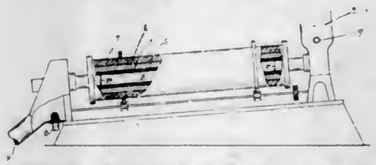
2,156,262
PROCESS OF TREATING METAL ARTICLES TO ALLOY CONSTITUENT METALS
Colin G. Fink and Pincus Deren, New York, N. Y.
Application December 27, 1932, Serial No. 648,870
16 Claims. (Cl. 148—7)

1. A process of treating metal articles to alloy constituent metals, which comprises coating a formed metal article with a solid adherent layer of another metal in intimate metallic contact with the first metal, the metals having melting points above 1000° C. and also above the melting



point of the eutectic, and forming an alloy of the constituent metals by heating the coated article at a temperature at or about the melting point of the eutectic of the metals, which will produce rapid diffusion while the article maintains its form.

2,156,263
METHOD OF MANUFACTURING IRON BY DIRECT REDUCTION
Kazuji Kusaka and Haruyuki Ashida, Dairen, Manchukuo, assignors to Minami Manshu Tetsudo Kabushiki Kaisha (South Manchuria Railway Co.), Dairen, Manchukuo, a corporation of Japan
Application January 6, 1937, Serial No. 119,267
In Japan July 3, 1936
4 Claims. (Cl. 75—11)

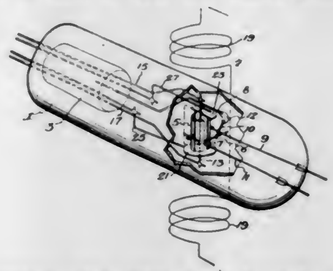


1. Method of manufacturing sponge iron by direct reduction which comprises passing the material to be reduced through a reaction tube having a heating wire disposed on its periphery and subjecting the material to a reducing gas stream, said gas being caused to move partly through the reaction tube and partly over the same thereby preventing oxidation of the heating wire, and also effecting the reaction at a very high temperature.

2,156,264
ELECTRON MULTIPLIER
Ernest G. Linder, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1935, Serial No. 52,299
4 Claims. (Cl. 250—175)

1. An electron mutiplier comprising an evacuated envelope containing a cathode and a cylindrical anode disposed about a common axis, a pair of end plates having opposed surfaces coated with a secondary emissive substance mounted adjacent the opposite ends of said anode out of short circuiting contact with said cathode and anode, and an electrode lead con-

nected to each of said end plates whereby an



electrostatic field may be established therebetween.

2,156,265

HIGH PRESSURE LUBRICANT

Floyd L. Miller and Charles F. Smith, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 21, 1933, Serial No. 699,033
3 Claims. (Cl. 87—9)

1. An improved lubricant for extreme pressure conditions comprising a major proportion of a mineral lubricating oil, a minor proportion of halogenated petroleum wax and an agent containing "corrosive" sulfur.

2,156,266

PROCESS FOR OBTAINING OXIDATION PRODUCTS FROM HYDROCARBONS

Eger V. Murphree and Edward D. Reeves, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 10, 1933, Serial No. 697,476
8 Claims. (Cl. 260—451)

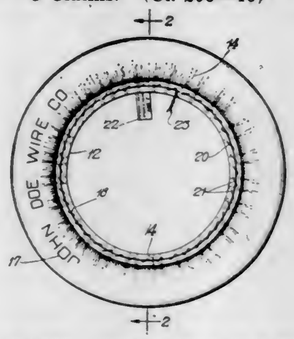
8. An improved process for producing partial oxidation products from high molecular weight waxes of the type obtained from petrolatum, comprising subjecting said petrolatum to selective-solvent treatment in the presence of a non-solvent for wax, to remove the oily constituents from said petrolatum and produce a dry wax substantially free from liquid oil, and subjecting the dry wax to oxidation in the liquid phase with a gas containing free oxygen.

2,156,267

RELEASABLE PACKAGE

Paul M. Rogers, Hastings on Hudson, N. Y., assignor to Anaconda Wire & Cable Company, New York, N. Y., a corporation of Delaware

Application November 27, 1936, Serial No. 112,918
5 Claims. (Cl. 206—46)



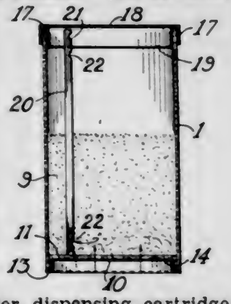
1. A package comprising ring-shaped merchandise, a covering therefor extending lengthwise about the outer circumference of the merchandise and extending transversely from each side of the outer circumference over the sides to join at the inner circumference thereof and thence extending inwardly toward the center of the merchandise in face to face position, and a stitching through said face to face inward extensions to join them.

2,156,268

DISCHARGE TUBE FOR DUST GUNS

William H. Rose, Jersey City, N. J., assignor to Stanco Inc.

Application March 12, 1936, Serial No. 68,410
2 Claims. (Cl. 43—147)



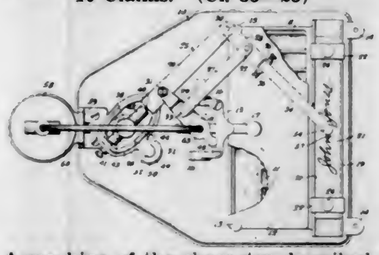
1. A powder dispensing cartridge, comprising a casing adapted to contain powder, a closure forming one end of said casing and having an opening therein, a mixing chamber arranged adjacent to and below the closure and having a perforation out of line with the opening in the closure, and a discharge tube extending into the mixing chamber and throughout at least the greater part of the length of the cartridge, said tube having an opening below the mixing chamber and adjacent to it and another opening in the mixing chamber.

2,156,269

ENGRAVING OR REPRODUCING MACHINE

Helmuth W. Waldorf and Erich May, New York, N. Y., assignors to New Hermes, Inc., New York, N. Y., a corporation of New York

Application January 25, 1939, Serial No. 252,808
10 Claims. (Cl. 33—25)



1. A machine of the character described comprising a base, a motor fixed on said base and having a shaft, a bearing unit projecting from said base and having a vertical axis, a member journaled on said unit, means pivoted to said member on a horizontal axis and extending therefrom substantially in the direction of said horizontal axis, said means carrying a pantographic mechanism including an engraving tool, said member being horizontally movable about said vertical axis and supporting said means spaced

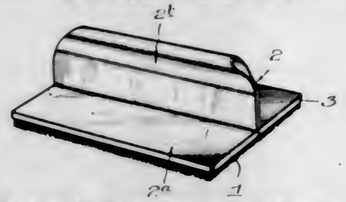
apart from said base in any position determined by said horizontal movement, and flexible means from said motor shaft to said tool to impart rotation thereto.

2,156,270

PAINT APPLYING DEVICE

Edgar Bert Smith, deceased, late of Berwyn, Ill., by Ella May Smith, Berwyn, Ill., administratrix, assignor to Arnold B. Carlson, Aurora, Ill.

Application December 14, 1933, Serial No. 702,371
4 Claims. (Cl. 15—209)



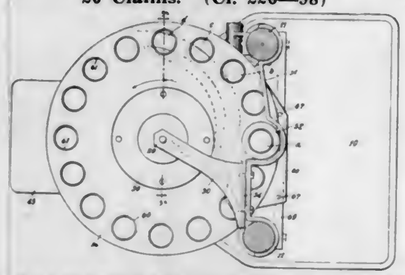
4. A paint applying device for painting screens and like mesh surfaces comprising a plate member having a handle and a substantially flat working surface covered with a mat composed of a uniformly dense mass of short relatively stiff bristle-like fibres anchored in a foundation layer.

2,156,271

AUTOMATIC FILLING MACHINE

William J. Beck, Yonkers, N. Y.

Application December 14, 1936, Serial No. 115,651
20 Claims. (Cl. 226—98)



1. In a machine for introducing powdered material into containers, a chamber from which the material is discharged, guiding means below said chamber for directing the material into the containers, and slotted closure means interposed between said chamber and guiding means and relatively movable thereto for progressively discharging the material from said chamber into said guiding means, said closure means being provided with an eccentrically disposed slot, said guiding means being provided with inlet openings to receive material from said chamber, the slot in said closure means extending obliquely across the path of said inlet openings so as to progressively uncover more of the area of said inlet openings as said guiding means are moved in the direction to cause said progressive discharge.

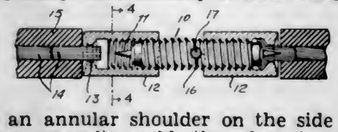
2,156,272

COUPLING DEVICE

Robert A. Bell, Montclair, N. J., assignor to The Rajah Company, Bloomfield, N. J., a corporation of New Jersey

Application February 5, 1937, Serial No. 124,819
1 Claim. (Cl. 174—94)

A device for mechanically connecting the ends of automobile insulated ignition cables of the type having a stranded conductor covered by a thick insulating sheath in such manner as to form a single tensile member composed of two cables and said connecting device, the said tensile member being adapted to pass through openings designed for said cable, said device comprising two internally threaded sleeves of an external diameter not greater than the external diameter of said insulated cable, and an externally threaded rod adapted to be threaded into said sleeves, each of said sleeves being formed with the internal threads thereof beginning at one end of said sleeve and being terminated a substantial distance from the other end thereof, an enlarged chamber portion between said threads and said other end and an inwardly extending flange substantially at said other end to



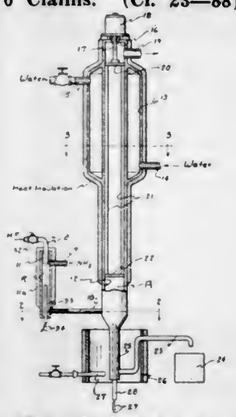
define an annular shoulder on the side of said chamber opposite said threads whereby the chamber communicates with the exterior of said sleeve by way of a constricted circular opening, said rod being formed with threads corresponding to those in the said sleeves along its entire length except for a short portion of each end thereof, each of said ends terminating in a sharp conical spike concentric with the axis of said rod and an annular shoulder intermediate said threads and said spike, said spike being of a length such that it will project into said constricted circular opening when said rod is screwed into said sleeve, said rod having a hole cut through the middle thereof at right angles to the axis of said rod to facilitate tightening of the device.

2,156,273

MANUFACTURE OF AMMONIUM HYDROGEN FLUORIDE

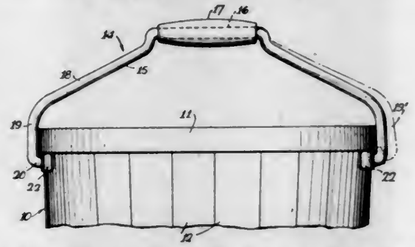
Abe R. Bozarth, Cleveland, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio

Application April 27, 1938, Serial No. 204,541
6 Claims. (Cl. 23—88)



2. Process of producing ammonium bifluoride comprising contacting ammonia of low moisture content with hydrogen fluoride of low moisture content in substantialy the proportion of one and two mols respectively, at a temperature above the melting point of ammonium bifluoride, condensing the gaseous ammonium bifluoride content of the reaction mixture to a liquid in a suitable, enclosed space and removing the product from said space in liquid condition.

2,156,274
DETACHABLE BAIL FOR BASKETS OR HAMPERS
Fred J. Brown, Egg Harbor City, N. J.
Application May 26, 1936, Serial No. 81,936
2 Claims. (Cl. 217—125)



1. A detachable and attachable hamper basket bail adapted for use with a hamper basket wherein the hamper basket includes an upper rim having its lower edge extending over the side of the basket; said basket bail comprising a single, resilient wire member having a vertical portion extending downwardly from each outer end thereof, the distance between the vertical portions being substantially equal to the diameter of the basket to which it is to be applied, inturned ends at the bottom of each vertical portion, and a curved plate secured to each inturned end adapted to be temporarily held beneath the basket upper rim by the resiliency of the bail to temporarily attach the bail to the basket.

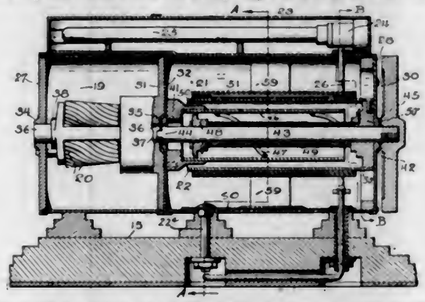
2,156,275
PREGNANOLONES AND METHODS FOR PRODUCING THE SAME FROM 3-HYDROXY BISNORCHOLANIC ACIDS
Adolf Butenandt, Danzig-Langfuhr, Free City of Danzig, and Friedrich Hildebrandt, Hohen Neuendorf, near Berlin, Germany, assignors to Schering Aktiengesellschaft, a corporation of Germany
No Drawing. Application December 24, 1934, Serial No. 759,116. In Germany December 23, 1933
25 Claims. (Cl. 260—397)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. A method for the production of a pregnanol-(3)-one-(20) of the general formula $C_{21}H_{34}O_2$, comprising reacting a carboxylic ester of a 3-hydroxy bisnorcholanic acid with a Grignard reagent, transforming said reaction product into the corresponding tertiary carbinol, subjecting said tertiary carbinol to a dehydrating treatment thereby splitting off one molecule of water between the tertiary hydroxy group and the neighbouring tertiary hydrogen atom, and oxidizing the unsaturated compound obtained thereby so as to produce the corresponding 3-hydroxy ketone of the general formula $C_{21}H_{34}O_2$.

25. A pregnanol-(3)-one-(20) of the general formula $C_{21}H_{34}O_2$.

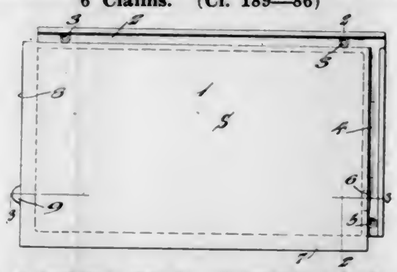
2,156,276
DESK STAND
Jesse L. Coen, Bluefield, W. Va.
Application November 9, 1936, Serial No. 109,955
11 Claims. (Cl. 242—107)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Reeling mechanism comprising a spool-sleeve rotatably mounted coaxially upon a shaft, a non-rotatable tubular member adapted to be received coaxially upon one end of said shaft and coaxially within said spool-sleeve, a helical cam within said tubular member, a cam follower rotatably mounted coaxially upon said shaft and



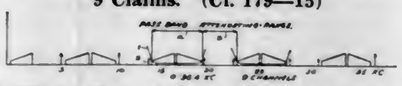
adapted to engage said helical cam, a coil spring mounted coaxially upon said shaft having one end thereof attached to said cam follower and the other end thereof attached to said spool-sleeve, and means manually releasable for holding said spool-sleeve against rotation.

2,156,277
HOUSE CONSTRUCTION
Elbert A. Corbin, Jr., Morton, Pa., assignor of one-half to William C. Biddle, Lansdowne, Pa.
Application March 22, 1937, Serial No. 132,340
6 Claims. (Cl. 189—86)



1. A building shingle comprising a body portion, a groove having a hole therein for receiving a fastening device along one side of said body portion and an edge extension on the opposite side of said body portion adapted to cover a groove of the next adjacent shingle, there being a slot in one of said grooves for receiving a tongue in the overlapping edge of an adjacent shingle.

2,156,278
SYSTEM OF CARRIER CURRENT TRANSMISSION
Jan Maurits Douwes Dekker, The Hague, Netherlands, assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application April 25, 1936, Serial No. 76,382
In the Netherlands April 30, 1935
9 Claims. (Cl. 179—15)



4. The method of conducting plural communications in a single carrier transmission medium which comprises impressing said communications

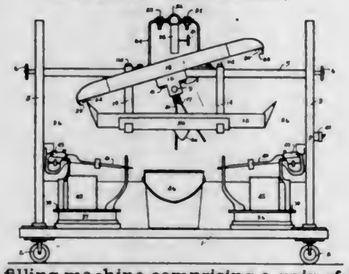
separately upon carriers alternately spaced in frequency throughout a frequency range, suppressing the carriers, suppressing alternate upper and lower sideband frequencies, and transmitting the remaining lower and upper side-band frequencies through said medium to a receiving station, the spacing of said carriers exceeding the frequency band occupied by each pair of said remaining sideband frequencies.

2,156,279
MEANS FOR STENCILING
Richard Gurley Drew, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application September 11, 1930, Serial No. 481,090
10 Claims. (Cl. 101—127)



1. As an article of manufacture a stencil comprising a flexible sheet provided with apertures, said sheet being further provided with a pressure sensitive adhesive at the margins of said apertures, said sheet being distensible longitudinally and transversely to clearly define said apertures upon application of pressure thereto.

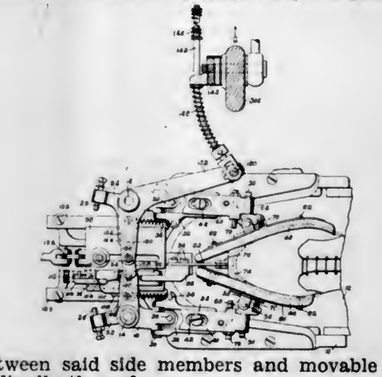
2,156,280
WEIGHT CONTROLLED FILLING MACHINE
Russell J. Emmons, Cleveland, Ohio, assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
Application November 22, 1935, Serial No. 51,127
8 Claims. (Cl. 249—27)



1. A filling machine comprising a pair of scales, a tilting delivery trough mounted above said scales to deliver material to the scales alternately, means operable by the scales to reverse the delivery trough, and drip means operatively connected with the delivery trough to slide under the upswinging end of said trough.

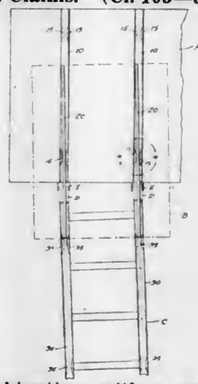
2,156,281
WELT SUPPORT FOR SOLE ATTACHING MACHINES
Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 6, 1937, Serial No. 119,303
14 Claims. (Cl. 12—33)

1. In a welt support for a sole attaching machine, the combination of a pair of welt engaging side members which are relatively movable toward and from each other transversely of the pressure pad of the machine, and a separate, unconnected, welt engaging toe piece positioned



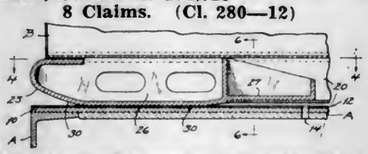
between said side members and movable longitudinally thereof.

2,156,282
FREIGHT TRANSFERRING APPARATUS
Benjamin F. Fitch, Greenwich, Conn.
Application June 29, 1936, Serial No. 87,973
13 Claims. (Cl. 105—366)



1. The combination, with a container having skid rails on its bottom, of a vehicle having a pair of upwardly facing channels providing guideways for such skid rails, each channel being restricted in width for a comparatively short distance adjacent one end of the channel, in a manner to prevent substantial movement of the rail crosswise of the channel at the restriction while allowing the rail to swing in the channel at other regions.

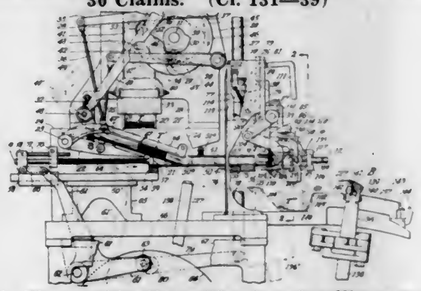
2,156,283
FREIGHT CONTAINER
Benjamin F. Fitch, Greenwich, Conn.
Original application June 29, 1936, Serial No. 87,973. Divided and this application March 31, 1937, Serial No. 134,018
8 Claims. (Cl. 280—12)



1. A container having on its underside a pair of skid rails, each rail having an intermediate

portion of upwardly facing channel shape and a pair of end extensions having reduced parts occupying the channel of the intermediate portion and secured thereto.

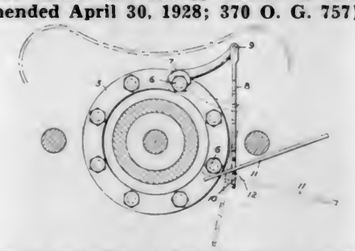
2,156,284
CIGAR MACHINE
John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application February 18, 1936, Serial No. 64,502
30 Claims. (Cl. 131—39)



1. The combination with a bunch rolling apron, of a charge separator, mechanism for delivering charges from said separator onto said apron, and means acting on the separated charge, prior to rolling thereof in the apron, arranged to loosen the tobacco in said charge.

30. In a cigar bunch machine, the combination with an open end magazine having a receiving and a discharge end, of charge measuring and separating means for separating a predetermined volume of tobacco at the discharge end of said magazine, a cross feed for forwarding a stream of long-filler tobacco, a cutter for severing a bunch length from said stream, means acting to deliver said length into the open receiving end of said magazine, and means responsive to an excess of tobacco in said magazine for controlling the operation of said feed, said means including mechanism for stopping said feed and said means including connections controlling said feed to maintain the supply of tobacco in said magazine at less than that needed for two bunches.

2,156,285
WRENCH
Clarence E. Harris, Winthrop, Mass.
Application August 2, 1937, Serial No. 156,993
1 Claim. (Cl. 81—119)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A wrench including a handle with a work-engaging end, a pivot pin in the end of the handle opposite to the work-engaging end, and a rigid member mounted on the pivot pin, said member having a plurality of openings and crosspieces for application of a lever and arranged parallel to the axis of the pivot pin and remote from the work-engaging end of the handle.

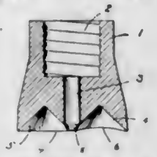
2,156,286
METHOD AND APPARATUS FOR MAKING BUILDING MATERIALS OR THE LIKE
Norman P. Harshberger, Scarsdale, N. Y., assignor to Bakelite Building Products Co. Inc., New York, N. Y., a corporation of Delaware
Application June 15, 1935, Serial No. 26,770
15 Claims. (Cl. 91—44)



6. A device for applying a wet cement composition to a roofing base or the like whereby predetermined amounts of the wet composition are fed, and said composition is securely bonded to said base, which comprises means to support the base to be treated, a hopper for receiving a quantity of said wet composition, rotary feed means positioned to continuously remove predetermined quantities of wet composition from the bottom of said hopper, impeller means positioned to remove the wet cement composition from said feed means and discharge the same upon the base to be treated, and driving means to rapidly move said impeller means; the impeller means being positioned in proximity to but out of contact with the base to be treated and with its point of discharge of said wet cement composition a distance from said base considerably less than its own diameter and that of said feed means, and having such velocity as to impart said wet cement composition to the base with sufficient force to produce an effective bond between said base and cement composition when the latter has hardened.

14. In the process of forming cement coated roofing, the steps which comprise, providing a roofing base having a surface to receive a cement coating, moving said base relative to a source of supply of cement coating composition, feeding a predetermined layer of said composition from said source of supply, moving said layer to a point in close proximity to said coating receiving surface, forcibly impelling a stream of particles of said composition layer against said receiving surface while the latter is moving and in a manner as to produce a substantially continuous coating thereon, said particle stream being characterized by the trajection of said particles by a rapidly moving impeller, and said particles being impinged upon said moving base surface with sufficient force as to be securely bonded to said base when said coating is hardened.

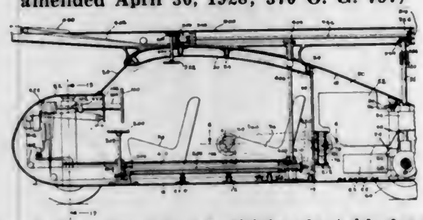
2,156,287
DRILL BIT
Martin Hokanson, Duluth, Minn., assignor to Eidco, Inc., Duluth, Minn., a corporation of Minnesota
Application November 21, 1936, Serial No. 112,100
8 Claims. (Cl. 255—64)



1. A drill bit comprising a body portion having a working surface provided with a plurality of substantially circular cutting edges, the following edge, relative to the direction of rotation

of the bit, of each circular edge having a depressing therein, and the remainder of each circular edge being in a plane at right angles to the bit axis.

2,156,288
FLYING AUTOMOBILE
Theodore B. Holliday, Dayton, Ohio
Application May 4, 1937, Serial No. 140,666
26 Claims. (Cl. 244—50)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a duo-functional vehicle adaptable for use either as a ground vehicle simulating a conventional automobile or as an airplane by removably attaching wings to the body of the ground vehicle, the combination including a closed bulkhead vertically disposed in the body of the ground vehicle and bearings fixedly attached on the bulkhead for pivotally supporting the wings.

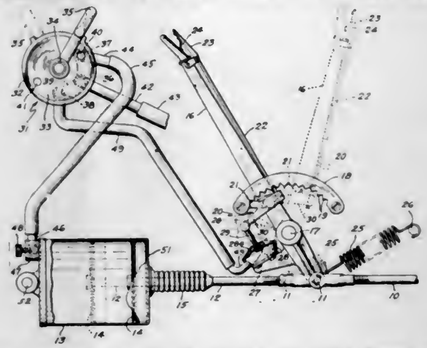
2,156,289
RECORD CHART FOR AUTOMATIC RECORDING INSTRUMENTS
Edward W. Hoy, Buffalo, N. Y., assignor to Permochart Corporation, New York, N. Y., a corporation of New York
Application April 13, 1937, Serial No. 136,620
1 Claim. (Cl. 234—75)



As an article of manufacture, a circular record chart for automatic recording instruments having a circular chart-supporting member provided with a central stud and an ink-bearing stylus cooperating to automatically mark the upper surface of a chart supported on said member, said chart comprising, in combination, a disc of flexible composite material comprising a disc of flexible backing material adhesively united over its upper surface to a disc of flexible non-fibrous material having a smooth record-receiving upper surface which is sufficiently hard to resist deformation by said stylus and which is impermeable to the marking ink to enable the ink to be removed by wiping or erasure to restore the chart to a condition for reuse, said chart having graduations visible on its upper surface and being provided with a central aperture to engage said stud.

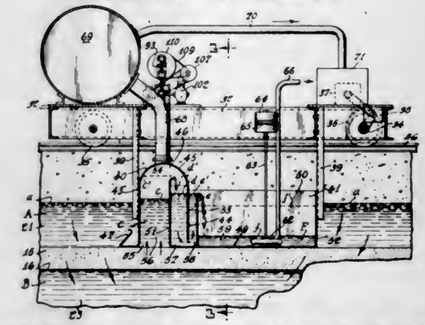
2,156,290
VACUUM CONTROLLED EMERGENCY BRAKE OPERATING DEVICE
Harvey Hubbell, Jr., Bridgeport, Conn.
Application January 30, 1936, Serial No. 61,500
10 Claims. (Cl. 188—152)

1. In an automobile emergency or parking brake operating mechanism, suction operated means for moving the said brakes to applied positions, a hand operated lever for also applying the brakes, a catch to secure said brakes in applied positions, means tending to move the catch to brake holding position, means to move said brakes to released positions on release of said catch, suction operated means to release said



catch, hand operated means on said lever for releasing the catch, and a manually operated valve for controlling both said suction means.

2,156,291
CLEANING OF FILTER BEDS
George Fletcher Hurt, New York, N. Y., assignor, by mesne assignments, to Jig-Action Filters, Inc., a corporation of New York
Application April 7, 1937, Serial No. 135,463
18 Claims. (Cl. 210—128)

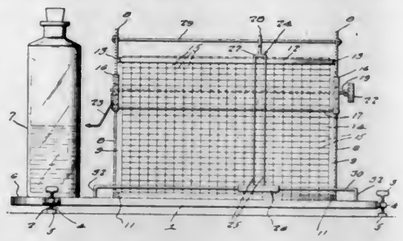


13. In a downflow filter the combination with an immersed sand filter bed, of a traveling cleaner chamber having its mouth close against the bed top surface, pneumatic valve means for providing air alternately at higher and lower pressures in the chamber, to cause up and down water surge in the chamber, a take off passage leading from the chamber for outflow of the tops of upsurges, and means for removing the water so outflowed.

2,156,292
LEVEL CHECKING APPARATUS
Davis Edward Kennedy, Slidell, La.
Application December 8, 1938, Serial No. 244,713
3 Claims. (Cl. 33—169)

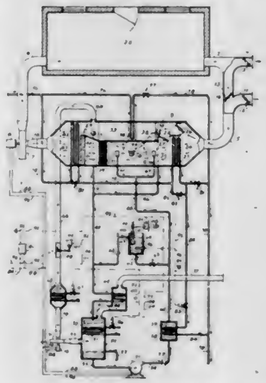
1. In apparatus of the class described, a base for supporting a fluid containing bottle, a frame arising from the base alongside the bottle, a plurality of squared elongated tablets removably and interchangeably mounted on end in said frame side by side for marking of data thereon selectively, said tablets having line graduations spaced vertically thereon, a line finding carriage including a line finding rod in front of said tablets and mounted on said frame for vertical movement to register said rod with selected gradua-

tions on the tablets, and a pointer extending from said carriage alongside the bottle for adjustment



by the carriage in accordance with the fluid level in said bottle.

2,156,293
CONCENTRATOR FOR HYGROSCOPIC SOLUTIONS
Hiram Joseph Kaufman, Detroit, Mich.
Application November 9, 1935, Serial No. 49,020
2 Claims. (Cl. 159—44)



1. Air conditioning apparatus, comprising a source of dilute hygroscopic solution, means for increasing the temperature of the dilute hygroscopic solution, a source of dehydrated air, means for contacting the dehydrated air with the dilute hygroscopic solution, means for increasing the temperature of the dehydrated air before contacting the dilute hygroscopic solution, means for indirectly utilizing a portion of the heat in the waste air and vapor for increasing the temperature of the dilute hygroscopic solution before contacting the dehydrated air, and means for controlling the specific gravity of the reconditioned hygroscopic solution by regulating the temperature of the dehydrated air before contacting the dilute hygroscopic solution.

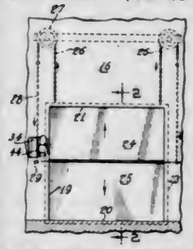
2,156,294
SHOCK ABSORBING DEVICE
Gregory J. Kessenich, Madison, Wis.
Application May 10, 1938, Serial No. 207,107
5 Claims. (Cl. 102—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A shock absorbing device comprising a flexible cable, a plurality of tubes of bendable material surrounding different portions of the cable, each tube coiled into a plane spiral, radially disposed bands extending across the coils of each spiral, said bands being of a material to yield-



ingly resist uncoiling of the spirals when tension is applied to the cable.

2,156,295
ELEVATOR DOOR MECHANISM
Le Roy H. Kiesling, Brooklyn, N. Y.
Application June 24, 1937, Serial No. 150,068
10 Claims. (Cl. 20—19)

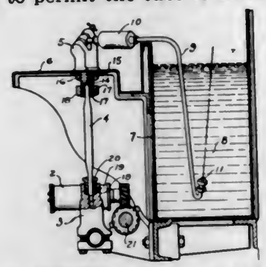


1. In an elevator door mechanism, in combination with the elevator car spaced from the shaft front wall sufficiently to accommodate the door with substantial clearance, and for each doorway one or two constantly upright doors each movable upwardly or downwardly for opening or closing the doorway; door guiding means for each door comprising at each side of the shaft a continuously inclined fixed single track, and at each side edge of the door upper and lower followers or shoes continuously both engaging said single track, one follower being positioned on the doorway edge in offset relatively to the other follower toward the front in correspondence with the incline of said track; whereby a line drawn from follower to follower at each door edge stands at an incline to the plane of the door and the door remains upright during its opening and closing movements and shifts with a continuous trend toward the shaft front wall during closing and toward the car during opening movement.

2,156,296
RAYON SPINNING APPARATUS
Hayden B. Kline, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application October 5, 1935, Serial No. 43,727
3 Claims. (Cl. 18—8)

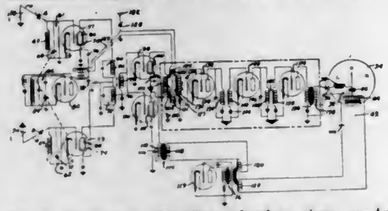
1. In rayon spinning apparatus including a positive displacement pump and a trough fitting,

a pressure responsive element operating to minimize pulsations resulting from the use of the positive displacement pump comprising a short, straight, open-ended, internally unobstructed metal tube having thin, flexible walls of a length sufficient to permit the tube to serve as a direct



connection between the pump and the trough fitting, said tube being normally collapsed along a portion of its length but being capable, under the influence of pulsations from the pump, of expanding against the pressure of the atmosphere to minimize the effect of said pulsations before they are transmitted beyond the trough fitting.

2,156,297
RADIO COMPASS
Geoffrey G. Kruesi, Dayton, Ohio
Application September 30, 1936, Serial No. 103,325
6 Claims. (Cl. 250—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a direction finding device, two antenna means having uni-directional characteristics arranged to receive signaling energy of maximum intensity in two directions that are symmetrical to a common axis, antenna means having a non-directional characteristic, means for locally producing a current having a known frequency differing from the frequency received by an intermediate frequency and having constant amplitude, means for combining the currents of each of said unidirectional antenna means and said non-directional antenna means with said locally produced current to thereby produce currents respectively corresponding to said intermediate frequency, a second local means to produce a current of known frequency and constant amplitude, means combining the intermediate frequency currents of each of said uni-directional antenna means with said second locally produced current to produce currents having frequencies equal to the sum and difference of said second locally produced current and that of the intermediate frequency currents of said uni-directional antenna means, and having an amplitude varying with the angle of deviation of said axis from a straight line to the transmitting station, and means for combining the intermediate frequency current of said non-directional antenna means with said sum and difference frequencies of the uni-directional antenna means to produce a current of said second-mentioned known frequency, the amplitude of which is a function of the angle of deviation of said axis from said straight line.

2,156,298
WELDED ARTICLE
Franz Leitner, Kapfenberg, Steiermark, Austria, assignor to Gebr. Böhler & Co. Aktiengesellschaft Wien, Vienna, Germany
No Drawing. Application March 16, 1937, Serial No. 131,180. In Austria April 18, 1936
2 Claims. (Cl. 113—112)

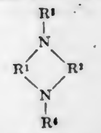
1. An article comprising at least two contiguous members of nonaustenitic ferrous metal bonded with a fusion deposited weld composed of an austenitic steel containing carbon in an amount not exceeding 0.3%; 5% to 25% chromium; 3% to 27% nickel; 3% to 18% manganese; 0.3% to 6% metal of the group consisting of molybdenum and tungsten; the remainder principally iron.

2,156,299
WELDING ROD
Franz Leitner, Kapfenberg, Austria, assignor to Gebr. Bohler & Co. Aktiengesellschaft Wien, Vienna, Germany
No Drawing. Application March 19, 1937, Serial No. 131,865. In Austria April 25, 1936
5 Claims. (Cl. 219—8)

1. Austenitic steel welding rod for fusion welding of non-austenitic alloy steels, which rod contains carbon in an amount not exceeding 0.35%; 13% to 26% manganese; 3% to 15% chromium, the chromium content being approximately equal to one half the manganese content; and the remainder principally iron.

2,156,300
CYCLIC AMIDES AND THEIR PRODUCTION
Arnold L. Lippert, Wilmington, Del., and Ebenezer E. Reid, Baltimore, Md., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 2, 1935, Serial No. 174. Renewed November 24, 1936
25 Claims. (Cl. 260—239)

9. Monomeric cyclic amides of the formula:

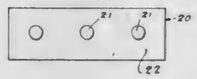


where R^1 is a divalent aliphatic radical, R^3 and R^4 are hydrogen or monovalent hydrocarbon radicals, and R^2 is the divalent radical formed from a dibasic aliphatic carboxylic acid by removal of the carboxyl hydroxyls, the sum of the annular atoms in R^1 and R^2 being at least six.

2,156,301
CUSHION SUPPORT
Julian S. Loewus, Baltimore, Md.
Application December 5, 1936, Serial No. 114,343
6 Claims. (Cl. 248—358)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A vibration dampener and support comprising a rubber body, attaching members including heads embedded within said rubber body and arranged in opposed relation, each of said heads being spaced inwardly from the end sur-

faces of said rubber body, and flexible tubular inextensible holding means embedded within said rubber body, the ends thereof surrounding said attaching members and in engagement with said heads for preventing the same from being pulled out of said rubber body, said holding means be-



ing normally unstressed in the normal use of said vibration dampener but adapted to be placed in tension upon abnormal stretch of said rubber and acting as a stop to prevent said rubber from stretching beyond its elastic limit, said holding means allowing said rubber body to be stressed in compression, tension and shear.

2,156,302

BLANK FOR AND METHOD OF MANUFACTURING STEEL PENS

Sydney E. Longmaid, Villanova, Pa., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey

Application June 1, 1936, Serial No. 82,950

4 Claims. (Cl. 113—32)



1. A blank for the manufacture of a steel writing pen having the pointed end thereof subsequently providing the nib portion furnished with a plurality of closely placed symmetrically arranged and continuous transverse grooves or indentation of similar shape or form substantially at right angles to the longitudinal axis of the blank; said grooves being disposed only forward of the pierce hole.

3. The method of making steel writing pens which comprises stamping blanks from metal pen stock, such blanks including a relatively pointed end which subsequently provides the nib portion of the finished pen; forming closely placed symmetrically arranged and continuous transverse grooves or indentations of similar size and shape upon the upper surface of such pointed end substantially at right angles to the longitudinal axis of the pen; said grooves being disposed only forward of the pierce hole. and thereafter raising the blank to pen form and bringing the grooved or indented portion into slightly arched form.

2,156,303

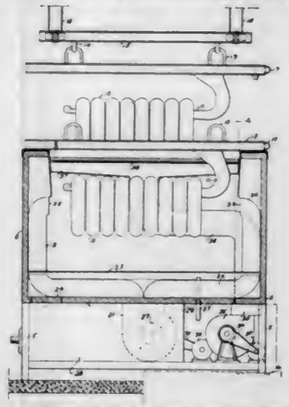
ROD BAKING EQUIPMENT

John R. Morrison, Hudson, Ohio, and Kenneth B. Lewis, Worcester, Mass.

Application June 12, 1937, Serial No. 147,902

12 Claims. (Cl. 34—19)

10. In apparatus for baking coils of rods, the combination of an open top oven, means for supporting a plurality of coils of rods in side-by-side substantially coaxial arrangement, the axis of the coils being substantially horizontal, ducts having outlets for directing a gaseous medium axially into said coils, heating means, and circulating means for withdrawing said medium from points in said oven below said openings, through said



heating means, and then returning the medium through said ducts.

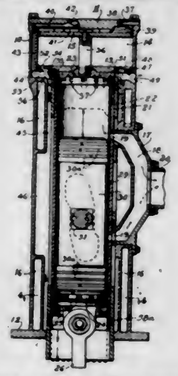
2,156,304

INTERNAL COMBUSTION ENGINE

Ward Phillips, Los Angeles, Calif.

Application June 10, 1936, Serial No. 84,516

20 Claims. (Cl. 123—50)



8. In an internal combustion engine, a supporting structure, a cylinder mounted for reciprocatory movement within said structure, a piston mounted for reciprocatory movement within said cylinder, a sleeve mounted for oscillatory movement between said piston and cylinder, said sleeve being provided at both ends with air inlet ports that are adapted to register with air inlet ports in the ends of the cylinder as said sleeve is oscillated, means carried by the piston for imparting oscillatory movement to said sleeve and means for admitting liquid hydro-carbon and air under pressure through the piston into the chambers between the ends of said piston and the ends of said cylinder.

2,156,305

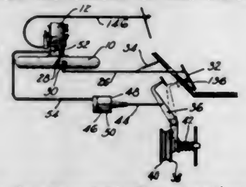
CLUTCH CONTROL MECHANISM

Harold W. Price, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana

Application October 12, 1934, Serial No. 748,097

11 Claims. (Cl. 192—.01)

1. In a clutch operating mechanism for an automotive vehicle provided with a clutch and a throttle, a pressure differential operated power device connected with the clutch, pressure sensitive valvular means for controlling the operation of said power device, linkage having a lost motion connection therein interconnecting said throttle and valvular means, said latter means being operative upon movement of the engine throttle to idling position to render the power device operative to disengage the clutch and operative upon movement of the throttle toward



open position for successively releasing the clutch elements for movement toward operative engagement to arrest the movement of the clutch elements at an initial point of operative engagement, and then further releasing the clutch elements for movement into further operative engagement, said valvular means being operative for arresting the movement of the clutch elements at progressively later points in accordance with the progressively more rapid opening movement of the engine throttle.

2,156,306

AUSTENITIC ADDITION MATERIAL FOR FUSION WELDING

Franz Rapatz, Buderich-Dusseldorf, Germany, assignor to Gebr. Böhler & Co. Aktiengesellschaft Wien, Vienna, Germany

No Drawing. Application December 30, 1936, Serial No. 118,262. In Austria January 11, 1936

5 Claims. (Cl. 113—112)

1. A welded joint comprising at least two contiguous non-austenitic steel members united by weld filler material, said filler material being composed of fully austenitic nickel-manganese steel containing 0.01% to 0.2% carbon, 3% to 25% manganese, 20% to 3% nickel, 0.01% to 3% silicon, and the remainder principally iron.

2,156,307

WELDING HARDENABLE STEELS

Franz Rapatz, Buderich-Dusseldorf, Germany, assignor to Gebr. Bohler & Co. Aktiengesellschaft Wien, Vienna, Germany

No Drawing. Application March 19, 1937, Serial No. 131,859. In Germany April 1, 1935

8 Claims. (Cl. 219—8)

1. Austenitic steel welding rod for fusion-deposition welding hardenable ferritic steel members by a weld substantially free from martensite containing carbon in an amount not exceeding 0.4% and containing at least one metal of the group consisting of nickel and manganese, the sum of the nickel and manganese being at least 2% greater than that required to make the steel completely austenitic.

2,156,308

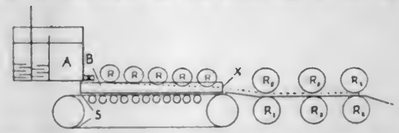
ART OF MANUFACTURING CEMENT-FIBROUS PRODUCTS

Charles H. Schuh, Ridgewood, N. Y., assignor, by mesne assignments, to Bakelite Building Products Co., Inc., New York, N. Y., a corporation of Delaware

Application January 26, 1935, Serial No. 3,578

10 Claims. (Cl. 92—21)

8. The process of making products comprising a cement-fiber structure having substantial strength and uniformity and containing cement in excess by weight of the fiber portion thereof, which comprises mechanically pulping the fiber in a dilute aqueous mixture to substantially gelatinous fibrous material characterized by the ability



to perform the function of maintaining cement particles in a large non-settling volume of the fiber, dispersing the cement particles uniformly through the dilute conditioned fiber mixture, and forming products comprising said cement-fiber structure therewith.

2,156,309

METHOD OF PRODUCING COMPRESSED PRODUCTS

Charles Schuh, Brooklyn, N. Y., assignor, by mesne assignments, to Bakelite Building Products Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 25, 1935, Serial No. 46,742. Renewed July 11, 1938

12 Claims. (Cl. 18—48)

1. The process of forming light weight substantially non-metallic products which comprises intimately mixing finely ground regranulated cork, a filter aid, and extension medium and a dispersed binding agent in a liquid, said regranulated cork being about 60 to 90% of the total dry weight of said mixture exclusive of the said binding agent, filtering said mixture without breaking the matrix previously formed, compressing said matrix to a desired density without breaking the continuous bonded structure thereof and including further expression of the liquid phase, and subsequently drying said matrix to form a light weight product.

2,156,310

ASBESTOS CEMENT SHINGLE AND PROCESS OF MAKING THE SAME

Charles Schuh, Brooklyn, N. Y., assignor, by mesne assignments, to Bakelite Building Products Co., Inc., a corporation of Delaware

No Drawing. Application January 23, 1936, Serial No. 60,447. Renewed July 11, 1938

21 Claims. (Cl. 92—21)

14. A low pressure process of producing low density hydraulic cement-fibre shingles which comprises forming a dilute aqueous suspension containing a major portion of hydraulic cement, a water-repellent compound, and fibrous material containing a sufficient amount of short flocculating fibres forming a large settled volume of pulp of not less than about 4 pounds per cubic foot when intimately mixed with said hydraulic cement, dewatering said dilute aqueous suspension to form a cement-fibre matrix, and subjecting the thus-formed matrix to a low pressure to produce a finished cement-fibre shingle constituted of a substantially uniform structure containing a multiplicity of microscopic voids in excess of 25% of the total volume and distributed substantially uniformly throughout the same and having a moisture absorption of less than 25%.

2,156,311

CEMENT FIBER PRODUCT

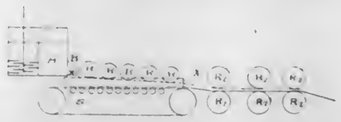
Charles H. Schuh, Brooklyn, N. Y., assignor to Bakelite Building Products Co., Inc., New York, N. Y., a corporation of Delaware

Application April 9, 1938, Serial No. 201,083

10 Claims. (Cl. 92—21)

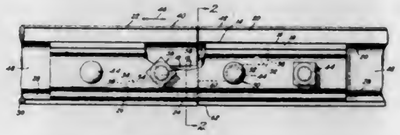
1. A compressed cement-fiber composition of

substantially uniform physical character comprising cement particles and finely beaten fibrous material substantially in the form of individualized fibers of an average length up to about 1/20 inch; said fibers and cement particles being in substantially uniform volumetric distribution, and said fibers lying in substantially all directions and presenting with said cement particles a bond-



ed composition substantially free of parallel matting of the fiber into planes of cleavage, said arrangement of fibers being such that there results in the composition a substantially microcellular structure comprising a multiplicity of substantially uniformly distributed substantially microscopic voids constituting at least 30% of the volume of the composition.

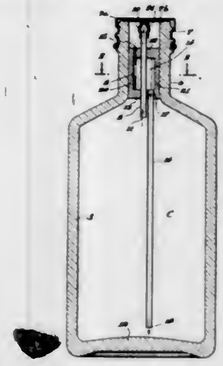
2,156,312
RAIL JOINT
Elmer Schuppner, Des Plaines, Ill., assignor of one-half to D. V. O'Connell, Chicago, Ill.
Application November 26, 1937, Serial No. 176,729
3 Claims. (Cl. 238—244)



1. In a rail joint, the combination of rails each having a head and a base flange, splice bars cooperable on said heads and the base flanges for connecting the rails, a shim positioned between each splice bar and the rails, each shim having a tapered flange positioned between one splice bar and the head of one rail, each shim having a second tapered flange positioned between one splice bar and the base flange of the other rail, said flanges tapering in the direction of the ends of the shims, and bolts passing through the splice bars and the rails, each shim including a diagonal reach interconnecting the flanges of that shim, said diagonal reaches including shoulders spaced closely adjacent to bolts, to restrain the shim from endwise relative movement.

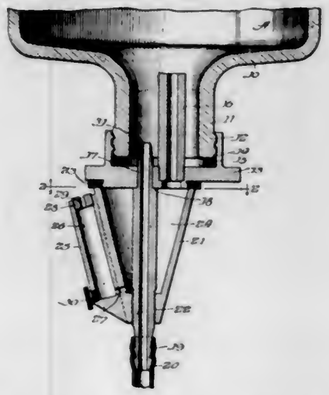
2,156,313
DISPENSING AND PACKAGING DEVICE FOR FLUIDS
Martin C. Schwab, Chicago, Ill.
Application January 11, 1936, Serial No. 58,649
11 Claims. (Cl. 128—214)

1. A self-contained fluid container and dispensing device operable upon inversion and of the character described comprising, in combination with the neck of said container, an air filter chamber and fluid conducting tube assembly comprising spaced walls forming a fluid chamber, a fluid conduit extending through said spaced walls from a point within said container to a point accessible through the neck of said container, an air conducting tube suspended from one of said



walls and an air inlet through the other of said walls.

2,156,314
STERILIZED LIQUID DISPENSING DEVICE
Martin C. Schwab, Chicago, Ill.
Application March 17, 1936, Serial No. 69,323
6 Claims. (Cl. 128—214)



1. In combination with a container having an outlet and adapted to be inverted for discharging liquids therefrom, an air filter and fluid dispensing assembly comprising two or more interconnecting overflow chambers and an air washing and filter chamber connected to one of said overflow chambers, and means for returning a predetermined amount of liquid permanently excluded from the liquid to be dispensed.

2,156,315
SHEET ALIGNING AND LOCATING MEANS FOR WRITING MACHINES
John Q. Sherman and Albert W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman
Application March 11, 1936, Serial No. 68,220
12 Claims. (Cl. 197—143)

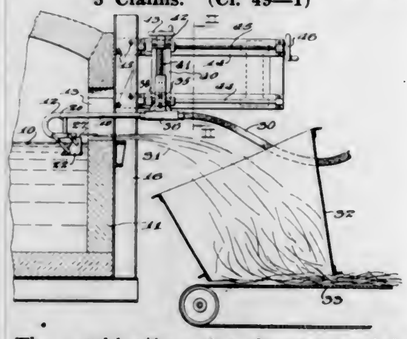
12. An imprinting apparatus wherein record material is advanced past an imprinting position by either of two optionally selective feeding

devices characterized by a member overlying one of the feeding devices and temporarily excluding



such device from operative engagement with the material.

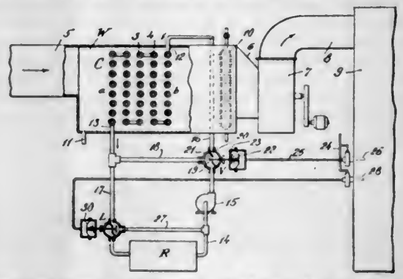
2,156,316
APPARATUS FOR MAKING FIBROUS MATERIALS
Games Slayter and John H. Thomas, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application October 31, 1934, Serial No. 750,817
5 Claims. (Cl. 49—1)



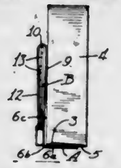
1. The combination of a furnace containing a supply body of molten material, said furnace having a lateral opening in a side wall thereof above the level of said material, a siphon spout within the furnace and partially immersed in said material, said spout having upwardly convergent walls terminating in an elongated outlet opening above the level of said material and many times narrower than the spout at its lower end, and a blower within said furnace having a discharge opening in the form of a narrow slot parallel with and substantially coextensive laterally with the outlet opening of the siphon spout, said blower being arranged to direct a blast of gas across said outlet opening in the spout and outwardly through said opening in the wall of the furnace, whereby the molten material is siphoned or drawn upwardly through said spout by the blast of gas and drawn by said blast into filaments or fibers which are carried through and beyond the opening in the furnace wall.

2,156,317
AIR CONDITIONING CONTROL
Horace L. Smith, Jr., and Lucian N. Jones, Richmond, Va., assignors, by mesne assignments, to Niagara Blower Company, New York, N. Y., a corporation of New York
Application November 20, 1934, Serial No. 753,840
4 Claims. (Cl. 62—6)

4. In an air conditioning system, in combination with a surface cooler, an enclosure, in which conditioned air is required, means for supplying a stream of air to said enclosure, and means for passing all of the air in said stream in heat exchanging relation with the entire surface of said cooler, means for circulating a fluid cooling medium through said surface cooler, means for variably controlling the rate of flow of said cooling medium through said cooler in accordance with changes in temperature conditions in said enclosure and means for variably controlling the temperature of the cooling medium entering said surface cooler in accordance with changes in humidity conditions in said enclosure.

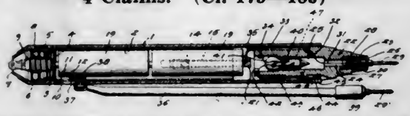


2,156,318
CONNECTING CLIP FOR MATCH AND CIGARETTE PACKAGES
Frank M. Sprague, Boise, Idaho
Application August 30, 1937, Serial No. 161,625
2 Claims. (Cl. 206—48)



1. The combination with a cigarette package having one end closed by a layer of paper and a match packet having a heavy paper backing, of a connecting clip for firmly securing the two together regardless of whether the contents of the packages are filled or partially filled, said clip comprising two coils connected together, each having clamping members lying in one plane, the planes of the two coils extending substantially at right angles to each other, the clamping members of one coil gripping both sides of the layer of paper closing an end of the cigarette package, and the clamping members of the other coil gripping both sides of the paper backing of the match packet.

2,156,319
ELECTRICAL TESTING INSTRUMENT
Walter R. Steele, Lemon Grove, Calif.
Application June 26, 1937, Serial No. 150,642
4 Claims. (Cl. 175—183)



1. In an electric testing instrument, an elongated casing, an incandescent electric lamp mounted in one end thereof, an electric battery within the casing and connected at one side with

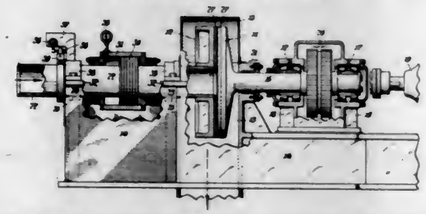
one side of the lamp, said casing having a slot in the wall thereof adjacent said lamp, an electric current conductor extending from said slot to and engaging the other side of the lamp, a body secured in the other end of the casing, a testing point secured in and projecting from said body, a current carrying spring arm carried by said body and electrically engaging the other side of said battery, said arm being electrically coupled with said test point, a flexible current conductor having a test point at one end, and means at the other end of the flexible conductor for frictional engagement in said slot and electrical connection with said first electric current conductor adjacent thereto.

2,156,320

FIBER PULP REFINER

Daniel Manson Sutherland, Jr., Morrisville, Pa., assignor to Lionel M. Sutherland, Trenton, N. J., and Douglas G. Sutherland, Morrisville, Pa.

Application April 1, 1936, Serial No. 72,082
9 Claims. (Cl. 92—26)



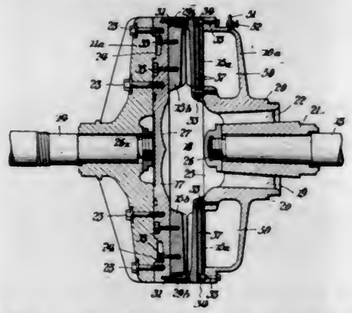
6. A fiber pulp refiner comprising relatively revolving coaxial refining members with opposed coacting working faces substantially parallel and enlarging outward around their axes, and traversed transversely of the circumferential direction of the relative movement of their said faces by the fiber stock being treated, at least one of said refining members having its working face movable in the axial direction toward and from the other member, and including means for applying sustaining fluid pressure behind said face to maintain it in effective coaction with said other member.

2,156,321

FIBER PULP REFINER

Daniel Manson Sutherland, Jr., Morrisville, Pa., assignor to Lionel M. Sutherland, Trenton, N. J., and Douglas G. Sutherland, Morrisville, Pa.

Application April 1, 1936, Serial No. 72,083
14 Claims. (Cl. 92—26)



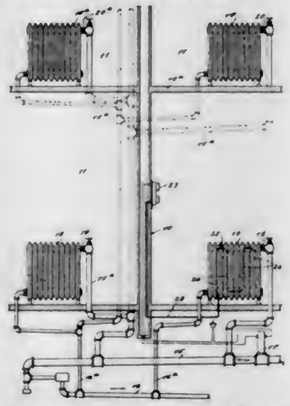
6. A fiber pulp refiner comprising relatively revolving coaxial refining members with opposed coacting working faces substantially parallel and enlarging outward around their axes, and traversed transversely of the circumferential direction of the relative movement of their said faces by the fiber stock being treated, at least one of said refining members having a flexible facing for coacting directly with the working face of the other refining member and being provided with means for applying sustaining fluid pressure behind said facing to maintain it in effective coaction with said other member.

2,156,322

HEAT EXCHANGE SYSTEM

William Walter Timmis, Glen Cove, and William K. Walker, New York, N. Y., assignors to American Radiator Company, New York, N. Y., a corporation of New Jersey

Application February 17, 1936, Serial No. 64,316
2 Claims. (Cl. 236—37)



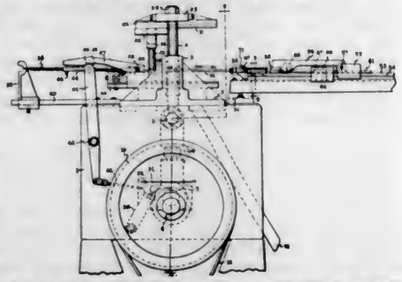
1. In apparatus for heating buildings, the combination of a heat exchanger for heating the building space; means for supplying a heating medium to said exchanger including an electric switch operable to supply the heating medium when in one position and to prevent supply of the medium when in a second position; a first thermostatic bulb responsive directly to changes in temperature of said heat exchanger; a second thermostatic bulb responsive to changes in temperature of the building space remote from said heat exchanger; said bulbs being of such relative sizes that the volumetric capacity of said first bulb bears the same relationship to the volumetric capacity of said second bulb as a predetermined relatively small range of building space temperatures comfortable to the occupants, bears to the range of temperatures of said heat exchanger which affects said first bulb and which is necessary to maintain the building space within said relatively small range of comfortable temperatures throughout the heating season; a relatively small diameter tube connecting said bulbs and providing therewith a closed system, and the bulbs and tube being completely filled with an expansible liquid; and means for transmitting the force resulting from changes in volume of said liquid, incident to temperature changes affecting either of said bulbs, to said switch and providing for movement of said switch to said one position when the volume of liquid falls below a predetermined value and for movement of said switch to said second position when the volume of liquid attains or exceeds such predetermined value.

2,156,323

CUT-OFF MACHINE

Paul Tishken, Detroit, Mich.

Application February 25, 1938, Serial No. 192,484
15 Claims. (Cl. 164—48)



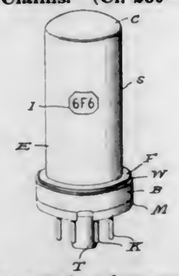
1. In a machine for performing die operations on elongated, advancing stock, a pair of opposed dies, normally spaced to admit such stock therebetween, holders for said dies, a mounting for such holders affording them sliding travel in and reversely to the direction of stock advance, means interconnecting the holders for sliding travel in unison, affording them a relative stock-engaging travel, power means for relatively actuating the holders to effect a die operation on the stock, a device controlling and normally cutting off the application of power to the power means, said device including a tripping lever, an arm pivoted on one of said holders hooked to engage said lever, whereby the lever is tripped to energize the power means responsive to a travel of such holder in the direction of advance of stock, and means carried by said lever for disengaging said arm from the lever upon a tripping actuation of the lever.

2,156,324

RADIO TUBE

Joseph S. Welwood, Bronxville, N. Y., assignor to International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application February 19, 1936, Serial No. 64,656
4 Claims. (Cl. 250—27.5)



1. As a new article of manufacture, a metal envelope for a radio tube comprising a tubular portion closed at one end and provided at the other end with a flange adapted to be welded to a metal base member, said envelope being constituted of a nickel alloy consisting substantially of about 20% to about 80% of nickel and the balance consisting principally of copper.

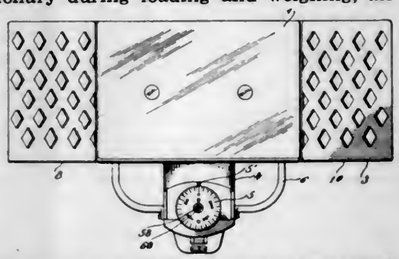
2,156,325

WHEEL SCALE

Kenneth E. Whitney, Towson, Md., assignor to The Black & Decker Manufacturing Company, Towson, Md., a corporation of Maryland

Application April 16, 1935, Serial No. 16,565
10 Claims. (Cl. 265—68)

1. A platform scale for use in weighing wheeled vehicles, the same being of single wheel width and of such size and weight as to be manually portable, the scale consisting of a platform, a weighing beam supporting the platform and having a supporting fulcrum near one end of the beam beneath the platform, means by which a force proportionate to the weight on the platform is communicated to the beam at a point spaced from the fulcrum in the direction of the length of the beam, said means comprising reducing levers, a balancing resilient means engaged with the end of the beam remote from the fulcrum, means for limiting the motion of the beam, holding the beam substantially in balanced position and the platform substantially stationary during loading and weighing, an indicator pointer, multiplying means separate from the beam and separately mounted, and connected to the beam at a point remote from the fulcrum, said pointer being operated by said multiplying means and being moved thereby in widely multiplied ratio to the motion of the beam for indicating the balanced position of the beam before and after loading the platform, means operable by an external force to apply stress to the resilient means, thus deflecting the resilient means to return the beam to balanced position after placing the load on the platform and in opposition to said load, and means for measuring the deflection of the resilient means when the beam is thus returned to balanced position and indicating the same in terms of the load.

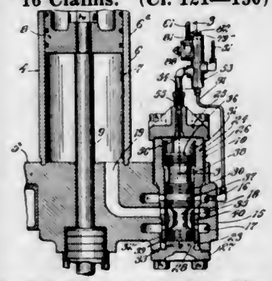


2,156,326

EXPANSIBLE CHAMBER MOTOR

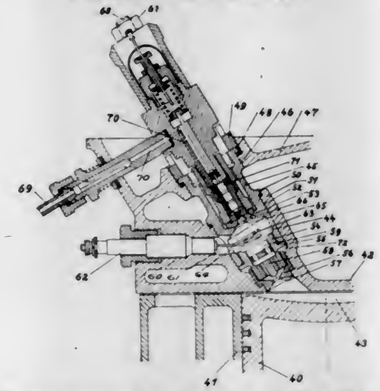
Wade H. Wineman, Coolspring Township, La Porte County, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application September 28, 1936, Serial No. 102,989
16 Claims. (Cl. 121—150)



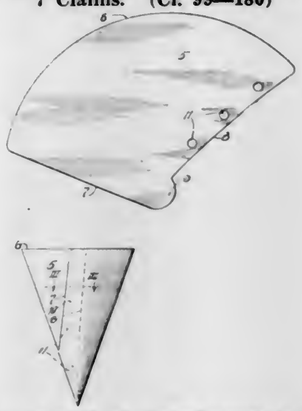
1. In combination, a single-acting expansible chamber motor having a distributing valve and means for causing the same to perform its distributing functions, and means operable automatically upon a predetermined derangement of said motor to remove the control of said distributing valve from said first mentioned means and maintain said valve in exhaust-condition-establishing position.

2,156,327
INTERNAL COMBUSTION ENGINE
Karl Zinner, Dresden, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application March 27, 1936, Serial No. 71,159
In Germany April 1, 1935
7 Claims. (Cl. 123—33)



6. In an internal combustion engine, the combination comprising a cylinder space, a precombustion chamber in permanent communication with said cylinder space, a fuel injecting nozzle opening into said precombustion chamber, a partition in said precombustion chamber arranged adjacent to said cylinder space and provided with a center core portion which is of appreciable mass to accumulate heat and is surrounded by a multiplicity of narrow openings, and a perforated disc interposed between said fuel injecting nozzle and said partition, spaced from but close to the latter and having a solid central portion arranged in line with said center core portion and adapted to shield the latter from direct impingement by the jet of fuel.

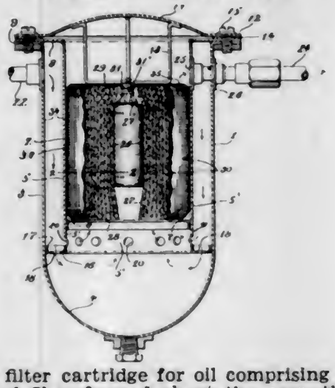
2,156,328
CONFECTIONERY WRAPPER AND METHOD OF PACKAGING CONFECTIONERIES
Cesare Barbieri, New York, N. Y., assignor to Dixie-Vortex Company, Chicago, Ill., a corporation of Delaware
Application March 27, 1937, Serial No. 133,345
7 Claims. (Cl. 99—180)



1. As an article of manufacture, a blank for a conical cup for receiving a frozen confection, including a sheet of stock of the general shape of a sector of a circle with a curved outer edge for defining the mouth of the cup and a pair of inwardly converging side edges, the margins adjacent said side edges being overlapped in the completed cup, and the inner of these margins having an opening therein through which the contents of the cup may contact the inner side of the outer margin to maintain these margins in overlapped condition until the cup is stripped from its frozen contents by separating said margins.

7. The method of packaging a frozen confection in a container formed from a blank having an opening in a marginal portion thereof, including the steps of shaping the blank into container form with overlapped marginal portions of which that having the opening is the inner, filling the container to a desired extent with a mass of confection, and freezing the mass of confection in and to the container and to the outer of said overlapped marginal portions through the opening in the inner of the overlapped marginal portions.

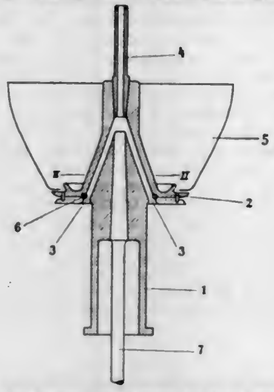
2,156,329
OIL FILTER AND CARTRIDGE
Harry B. Beck, Baltimore, Md., assignor to William E. Hooper & Sons Company, Baltimore, Md., a corporation of Maryland
Application March 5, 1937, Serial No. 129,186
8 Claims. (Cl. 210—112)



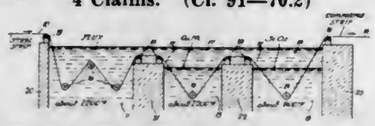
2. A filter cartridge for oil comprising a core, a roll of fiber formed about the core, the core being shorter than the axis of the roll providing an open axial chamber at one end of the cartridge, said chamber being surrounded by the fiber of the cartridge and having its side walls formed thereof thus increasing the surface of the fiber which may be exposed for the admission of oil to the cartridge.

2,156,330
DOUBLE TWIST TWISTING SPINDLE
Otto Bochmann, Remscheid-Lennep, Germany, assignor to Barmer Maschinenfabrik Aktiengesellschaft, Wuppertal-Barmen, Germany
Application March 3, 1938, Serial No. 193,656
In Germany March 22, 1937
5 Claims. (Cl. 57—58)

1. A double twist twisting spindle of the type with rigidly connected upper and lower spindle parts, comprising in combination a wharve and a thread take-up disc made in one piece, a short shaft extending from the upper end of said wharve and having a central bore, said wharve having a plurality of thread passages converging upwards from the lower side of said take-up disc and leading into the central bore of said shaft.

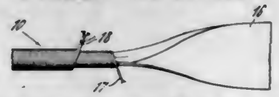


2,156,331
METHOD OF COATING STEEL STRIPS
Thomas B. Chace, Winnetka, Ill., assignor to Clad Metals Industries Inc., Chicago, Ill., a corporation of Illinois
Application May 5, 1937, Serial No. 140,999
4 Claims. (Cl. 91—70.2)



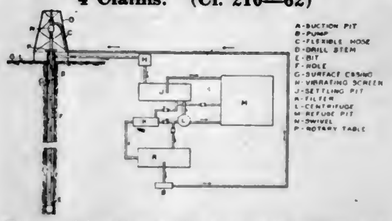
1. Method of making a composite metal strip, which comprises: preheating a base metal strip to approximately the same temperature as the first bath through which it is passed, passing the metal strip through a copper-nickel bath maintained slightly above its melting temperature to cause a layer of cuprous metal to be integrally bonded thereto, passing the strip through a silicon-copper bath maintained slightly above its melting temperature to cause a second layer of cuprous metal to be integrally bonded to the first layer without substantially melting the same, and excluding the atmosphere from the strip while it is being passed into and out of the molten metal baths.

2,156,332
ELASTIC YARN
Arthur Coté, Montreal, Quebec, Canada, assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 14, 1937, Serial No. 153,494
In Canada February 15, 1937
3 Claims. (Cl. 57—152)



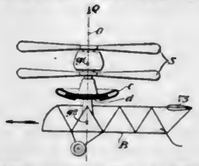
1. An elastic yarn that will not readily needle cut in a fabric when sewed with a sewing machine needle not over .032 inch in diameter, comprising a rubber core formed of a thin flat strip of rubber that is at least ten times as wide as said needle diameter, and a textile cover that holds said flat strip compressed and folded back and forth upon itself many times into an approximately round core not more than .035 inch in diameter.

2,156,333
CLEANING OIL WELL DRILLING FLUIDS
Roy Cross and Matthew Forbes Cross, Kansas City, Mo.
Application March 6, 1937, Serial No. 129,449
4 Claims. (Cl. 210—62)



1. In combination with a rotary drilling apparatus for oil and gas wells, an exit conduit from the drill hole to a screen for removing large solid particles, a settling pit, a conduit between said screen and said settling pit, a centrifuge for removing smaller solid particles not removable by the screen, a conduit between said settling pit and said centrifuge, a filter adapted to remove substantially all of the liquid from the solid materials, a conduit between said filter and the settling pit, a conduit between said filter and the centrifuge, a suction pit, a conduit between said suction pit and said filter, another conduit between said suction pit and said centrifuge, and a conduit including pumping means between said suction pit and the drilling apparatus for recycling the cleaned drilling fluid.

2,116,334
HELICOPTER
George de Bothezat, New York, N. Y., assignor to Helicopter Corporation of America, Long Island City, N. Y., a corporation of New York
Application December 30, 1937, Serial No. 182,399
6 Claims. (Cl. 244—17)



3. A helicopter comprising a lifting unit and a load carrying unit relatively oscillatable around a center of suspension above the center of gravity of each and means for tilting the air screw thrust in the plane of symmetry by creating a moment of this thrust in relation to said center of suspension which moment maintains the thrust in its inclined position.

2,156,335
ADHESIVE TAPE
Leon W. Geller, Astoria, Long Island, N. Y., assignor, by direct and mesne assignments of one-half to Nelson J. Fonarow and one-half to Edward J. Carter, both of New York, N. Y.
No Drawing. Application July 8, 1936, Serial No. 89,664
1 Claim. (Cl. 91—68)

A pressure sensitive adhesive tape consisting of

a gelatine sheet treated on one side with a chlorinated rubber composition to form a waterproof backing, an adhesive on the treated side of said backing, and a coating obtained from a mixture of a chlorinated naphthalin wax and chlorinated rubber on the side of said tape which is free from said adhesive.

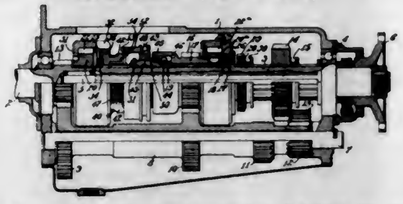
2,156,336

AUTOMATIC TRANSMISSION

Vaughn Haigh, Muncie, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, a corporation of Illinois

Application August 26, 1933, Serial No. 686,874

14 Claims. (Cl. 74—336)



1. An automatic transmission having in combination a driving shaft, a driven shaft, a gear rotatable on said driven shaft and driven from said driving shaft through a train of gears, an overrunning clutch for connecting said gear to the driven shaft to provide a one-way drive between said shafts for driving the driven shaft at a reduced rate of speed, an automatic clutch comprising a driving member rotatable with the driving shaft and having a bolt-receiving recess, a driven member rotatable with the driven shaft, and a movable bolt on said driven member and adapted to be radially projected into said recess under the influence of centrifugal force responsive to a predetermined speed of rotation of said driven shaft to connect said members for effecting an automatic change in the driving speed ratio, whereby the driven shaft will be driven directly and in synchronism with said driving shaft, a slidable sleeve splined to the driven shaft and adapted to be locked to said gear, a collar freely mounted on said sleeve engageable with said bolt upon movement relative to said sleeve to move said bolt out of said recess against the influence of centrifugal force for breaking the direct drive between said shafts, and manual means for initially moving said collar to move the same relative to said sleeve and for further moving said collar with said sleeve for locking the same to said gear to provide a two-way drive between said shafts for driving said driven shaft at a reduced rate of speed.

2,156,337

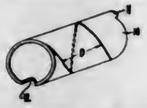
MACHINE AND METHOD FOR MANUFACTURING BUSHINGS

Adolph A. Hale, Grand Haven, Mich.

Application June 17, 1935, Serial No. 27,038

Renewed November 12, 1938

20 Claims. (Cl. 153—66)



1. A method for manufacturing spirally rolled cylinders of sheet metal or the like which comprises (*a*) feeding ribbon stock into a cutter which cuts the stock into lengths each having a leading edge at an acute angle to the direction of feed and a trailing edge at an acute angle to the direction of feed, the feeding of the ribbon stock being relied upon to eject cut lengths from the cutter, (*b*) feeding cut lengths into a spiraling die having a stationary cylindrically bored sleeve whose bore diameter is the outside diameter of the cylinder and containing a stationary cylindrical mandrel whose outside diameter is the inside diameter of the cylinder, the cut lengths being entered into the spiraling die through a longitudinal slot thereof which opens into the space between the mandrel and the sleeve so as to enter the die transversely of the axis thereof and pushed into the spiraling die and through the space between the mandrel and sleeve successively by the engagement of a leading length by a trailing length, the axes of the mandrel and bore being coincident and at an obtuse angle to the direction of feed of stock into the die.

2,156,338

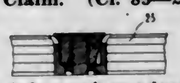
SCREW-THREADED CONNECTING MEANS

Willi Heyner and Hermann Henkel, Berlin-Neukolln, Germany

Application October 8, 1937, Serial No. 168,041

In Germany May 22, 1937

1 Claim. (Cl. 85—2.4)



Threaded metal member adapted for attachment to thin sheets, rods or the like, comprising in combination a metal sleeve, one end of said sleeve being thinned and slotted to form a circle of tongues and an internally threaded nut formed with an outwardly flaring head fitting in the sleeve and, below said head, with an axially extending notch adapted to form an interlocking connection between said nut and said sleeve, when this latter is upset by an axially directed hammer blow and part of the sleeve material enters said notch.

2,156,339

MECHANISM FOR REVERSING MATERIAL

Emil F. Horn, Long Island City, N. Y.

Application October 1, 1937, Serial No. 166,899

12 Claims. (Cl. 223—40)



1. In a device of the character described, the combination comprising a hollow element, a second element, one of said elements being movable with respect to the other whereby in a certain relative position said second element extends through said hollow element and in a certain other relative position said second element does not extend through said hollow element, and means other than said hollow element associated with said second element and movable as a whole away from a portion of said second element and adapted for securing to said second element a flexible piece of material of reversible, simple tubular form when said elements are in the first-mentioned position.

2,156,340

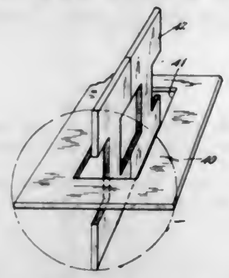
VACUUM PUMP

James P. Johnson, Shaker Heights, Ohio

Application June 1, 1936, Serial No. 82,760

10 Claims. (Cl. 230—153)

1. A rotary pump comprising a housing having a chamber therein the inner peripheral surface of which conforms to a limaçon curve and fluid inlet and outlet openings communicating with said chamber, a rotor eccentrically positioned in said chamber and rotatably mounted in said housing, said rotor having two pairs of radially extending slots, the slots of each pair being disposed on diametrically opposite sides of said rotor and in longitudinal alignment, the pairs of slots being arranged in different relative angular positions, and a pair of non-extensible blades,



each of which is slidably mounted in a different pair of slots and having their opposite ends adapted for uniform running engagement with the peripheral surface of said chamber, one of said blades being of rectangular shape and having an opening extending therethrough, and the other of said blades being of freely cooperating I sections for the purpose of assembly and disassembly and adapted to extend through the opening in said first mentioned blade in angular relation thereto.

2,156,341

PROCESS FOR MAKING AND RECOVERING ETHYLENE OXIDE

Herbert Langwell, Windmill End, Epsom, and Herbert Muggleton Stanley, Tadworth, England, assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application November 21, 1936, Serial No. 112,081. In Great Britain November 22, 1935

7 Claims. (Cl. 260—348)

1. In a process for making ethylene oxide, the steps which comprise passing ethylene and an oxygen-containing gas in intimate contact, at an elevated temperature, with a catalyst capable of causing the formation of gaseous ethylene oxide in the products of oxidation, selectively adsorbing the ethylene oxide from the resultant gaseous products in active carbon, and recovering the adsorbed ethylene oxide from said carbon by means of the vapors of a volatile desorbing agent of the group consisting of water, hydrocarbons and halogenated hydrocarbons.

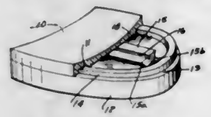
2,156,342

CUSHION HEEL

Carl Z. Litschert, Cleveland Heights, Ohio

Application May 21, 1938, Serial No. 209,300

3 Claims. (Cl. 36—35)



1. A cushion heel comprising a lift having a groove extending around the bottom surface near the outer edge thereof, and a resilient tread having a rib extending around the top surface thereof and fitting in the groove, the said top surface having air pockets between the lift and heel tread when said parts are fastened together, the said top surface of the tread also having a middle flange projecting to contact with the lift.

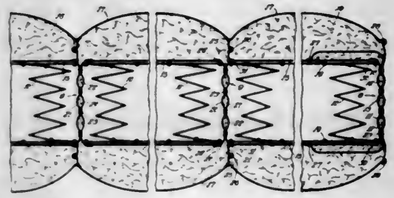
2,156,343

MATTRESS

Sam Marsack, Milwaukee, Wis., assignor, by mesne assignments, to Marsack Patents Corporation, Milwaukee, Wis., a corporation of Delaware

Application November 4, 1936, Serial No. 109,068

2 Claims. (Cl. 5—352)



2. A multi-cushion mattress of the kind described, comprising a plurality of spring constructions, a plurality of fabric sheets each overlying a spring construction, a unitary multi-ply separator strip extending between the edges of adjoining spring constructions, said strip providing a plurality of flaps, each flap connecting one of said sheets to said strip, padding overlying each spring construction and fabric sheet, a cover member overlying the mattress and means extending along the juncture of adjacent spring constructions connecting said cover member and one of said flaps.

2,156,344

CONCENTRATION OF ALIPHATIC COMPOUNDS

Herbert E. Martin, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application November 14, 1936, Serial No. 110,881

17 Claims. (Cl. 260—541)

1. Process for the concentration of an aqueous solution of a fatty acid, which comprises extracting the acid from the aqueous solution with an extracting medium containing a fatty acid ester of an alcohol in the presence of a small proportion of a salt of an alkali metal.

2,156,345

CONCENTRATION OF ALIPHATIC ACIDS

Herbert E. Martin, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application December 22, 1936, Serial No. 117,151

7 Claims. (Cl. 260—541)

1. Process for the concentration of an aqueous solution of a lower aliphatic acid, which comprises extracting the acid from the aqueous solution with an extracting medium containing an aliphatic acid ester of an aliphatic alcohol, said ester containing at least five carbon atoms, in the presence of a small proportion of a salt of an alkali metal.

2,156,346

CONCENTRATION OF ALIPHATIC ACIDS

Herbert E. Martin, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application July 13, 1937, Serial No. 153,359
10 Claims. (Cl. 260—541)

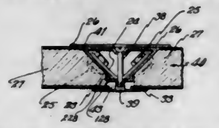
1. Process for the concentration of an aqueous solution of a lower aliphatic acid, which comprises extracting the acid from the aqueous solution with an extracting medium containing a mixture of isopropyl acetate, normal propyl ether and a small proportion of a salt of an alkali metal.

2,156,347

STUD AND LIKE ELEMENT

Robert W. McLaughlin, Jr., New York, N. Y., assignor to American Houses, Inc., New York, N. Y., a corporation of Delaware

Application June 8, 1935, Serial No. 25,581
11 Claims. (Cl. 189—34)



1. In a device of the character described, wall elements, vertical stud elements comprising a plurality of wall engaging surfaces intercepting at an angle of approximately 135°, and mechanical means cooperating therewith for holding the said wall elements in close contact with said surfaces, said wall elements being substantially nonpenetrated by said stud elements or said mechanical means, every said wall element being adapted to engage the stud element adjacent thereto in the manner described.

2,156,348

COPPER-ZINC ALLOYS

Wolf Johannes Müller and Moritz Niessner, Vienna, Austria, assignors to Oesterreichische Dynamit Nobel Aktiengesellschaft, Vienna, Austria, a firm of Austria

No Drawing. Application June 29, 1935, Serial No. 29,102. In Austria July 21, 1934
3 Claims. (Cl. 75—155)

1. A corrosion resistant copper-zinc alloy, which is workable in the cold state, containing copper in an amount of 30 to 45%, at least one metal of the group cobalt and nickel in an amount of 3 to 12% and in addition thereto manganese in an amount 4 to 15%, the zinc constituting substantially the the remainder.

2,156,349

HOSIERY STRETCHER

Rene Oldfield, Norristown, Pa.

Application January 25, 1937, Serial No. 122,150
2 Claims. (Cl. 223—77)



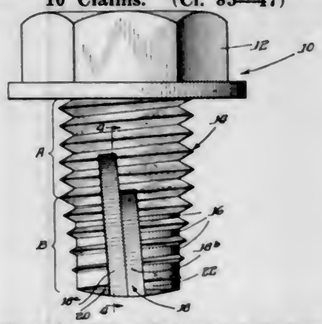
1. A stretcher for hosiery, comprising a leg section and a foot section, said foot section comprising instep and heel portions secured to said leg section and a detachable toe section adjustably carried by the instep portion of said foot section, a rod attached to said toe section, and a manually actuatable member pivotally connected to said rod and extending into said leg section, where it is engageable when said toe and foot sections are covered by a hose, spaced teeth carried by said member, a lug carried by one side of said leg section, and resilient means supported by said lug and slidably engageable with said member, to normally maintain a predetermined tooth of said member in engagement with said lug, said tooth-and-lug structure being released by angularly oscillating said member about its pivotal connection with said rod, against the force of said resilient means.

2,156,350

FASTENER

Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application April 19, 1937, Serial No. 137,721
10 Claims. (Cl. 85—47)



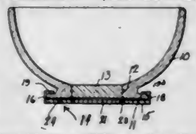
1. A thread cutting fastener including a body portion provided with a thread, said body portion being divided into a pair of sections by a longitudinal recess, said recess comprising two communicating recess portions of differing depths, one of said sections being positioned adjacent the recess portion of less depth and having a cutting edge and the other section being yieldable for increasing the cutting effectiveness of the edge on said first mentioned section.

2,156,351

CHILD'S FEEDING BOWL

Gertrude Paul, Jackson Heights, N. Y.

Application August 8, 1938, Serial No. 223,568
4 Claims. (Cl. 40—10)



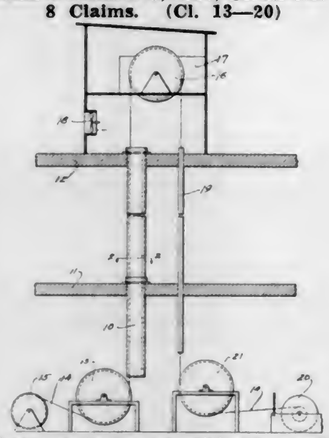
3. In combination with a feeding or drinking vessel having a base formed with a transparent area, a display frame of rectangular outline disposed under the base and having upstanding walls along three of its sides carrying inwardly extending flanges for overlapping the base and suspending the frame therefrom, the other side of the base being open whereby the frame may be slid into and out of engagement with the base, a pictorial representation on said frame in position for display through the transparent area of the base, and means at the open side of the frame for engaging the base and removably holding the frame in place.

2,156,352

HEATING DEVICE

Thomas F. Peterson, Worcester, Mass.

Application December 9, 1937, Serial No. 178,876
8 Claims. (Cl. 13—20)



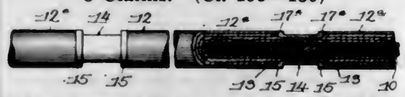
1. A heating device comprising in combination a cylindrical tower having a right section of a curvature providing a focus and having an interior reflective surface, said tower being provided with closed ends, means associated with the tower for supporting an element to be heat-treated along the focal line of the tower, said supporting means permitting movement of the element along the tower, refractory bushings mounted in the ends of the tower and along the focal line of the tower for permitting movement of the element while substantially sealing the interior of the tower to render the tower capable of operation under pressure or in the presence of an inert atmosphere, and heating means having its heating surface positioned in the tower so that heat waves radiating therefrom are reflected from the reflective surface and condensed upon the focal line of the tower.

2,156,353

CABLE CONVEYER

Willet B. Ranney, Chicago, Ill., assignor to Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware

Application October 11, 1937, Serial No. 168,348
5 Claims. (Cl. 198—130)



1. A conveyer cable comprising a flexible wire-woven core, a sheathing of fabric and rubber vulcanized on said core, a plurality of sleeves closely engaging said sheathing and located in longitudinally spaced relation thereon, and a plurality of lengths of sheathing of fabric and rubber interposed between said sleeves and severally vulcanized on said first named sheathing in close abutting relation with the ends of said sleeves.

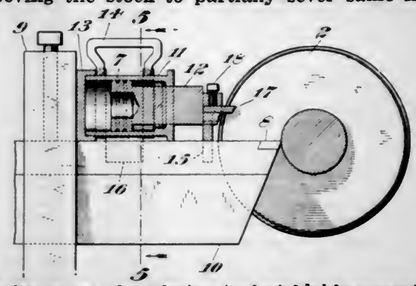
2,156,354

RADIUS CUTTING TOOL

Alois Rozmarich, Westmont, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application April 10, 1937, Serial No. 136,125
7 Claims. (Cl. 82—25)

1. In a machine for making chamfered forging blanks, means for supporting and rotating a length of solid stock, means for transversely grooving the stock to partially sever same into



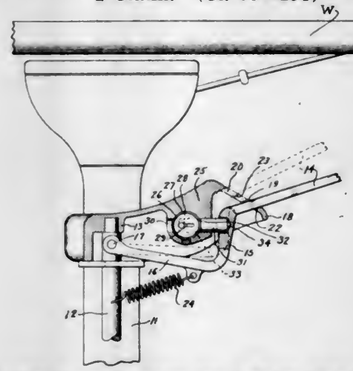
blanks, and a chamfering tool yieldably mounted on said grooving means for engagement with the peripheral edges of the stock formed by said groove for removing said edges.

2,156,355

AUTOMOBILE LOCKING STRUCTURE

Ray A. Sandberg, Waukegan, Ill., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application March 24, 1938, Serial No. 197,764
1 Claim. (Cl. 70—193)



Locking mechanism for locking the transmission selection lever extending laterally outwardly from a supporting bracket mounted below the steering wheel and with the lever fulcrumed at its inner end to be capable of vertical and lateral swing and having an intermediate substantially vertical portion, said lock structure comprising a lock cylinder rotatable in the bracket, and a lock bolt shiftable by turning of the lock cylinder into engagement with the lever vertical portion to thereby lock said lever against swing in either direction.

2,156,356

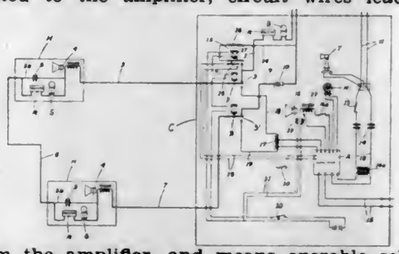
SPEAKER SYSTEM FOR FIRE ALARMS

Gregory J. Schwall and James E. McCarty, Stockton, Calif.

Application March 18, 1937, Serial No. 131,657
17 Claims. (Cl. 179—5)

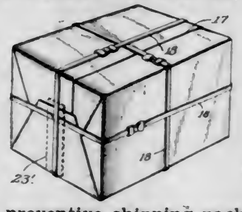
1. In a fire fighting system which includes a central station and an engine house separate from said station, and an alarm circuit leading into the central station and thence to the engine house, alarm producing mechanism interposed in the circuit within the engine house, a loud

speaker interposed in the circuit within the engine house, a sound amplifying unit in the central station, a telephone line from the outside connected to the amplifier, circuit wires leading



from the amplifier, and means operable selectively from within the central station to connect said wires to the alarm circuit wires leading to the engine house.

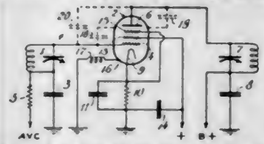
2,156,357
RUST PREVENTIVE PACKAGING FOR IRON SHEETS AND THE LIKE
Harold N. Simpson, Maywood, Ill.
Application May 18, 1936, Serial No. 80,325
9 Claims. (Cl. 206—60)



3. A rust preventive shipping package for flat iron sheets comprising a wrapper of moisture-proof sheet material enveloping and sealing a solid stack of the sheets, the wrapper being arranged about the stack to leave thin flat air-communicating passageways between the wrapper and the sheets at a plurality of edges thereof without thereby substantially increasing the overall dimensions of the package, the wrapper initially enveloping moisture-laden and rust-accelerating acid fume-laden air, a conditioning substance comprising a major portion of material of the group comprising calcium oxide and calcium sulphate, together with a minor portion of an adsorbent of the class comprising activated carbon and activated alumina, enclosed and remaining within the package, and supporting means for holding the conditioning substance collected in a regionally concentrated flat body against general dissemination throughout the entirety of the package and against ingress between the sheets and for exposing the conditioning substance to the air communicating with said passageways, whereby the conditioning substance may take up moisture from substantially all air within the package and neutralize said acids carried thereby, the conditioning substance being in a dry sub-divided form of the class comprising crystalline, granular and powdered forms.

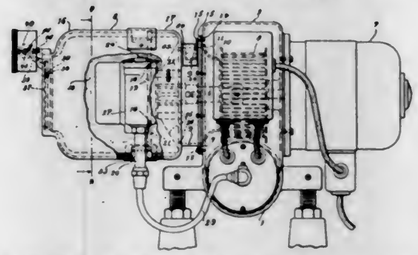
2,156,358
STABILIZING CIRCUIT
Dwight V. Sinninger, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application June 18, 1937, Serial No. 148,927
7 Claims. (Cl. 179—171)

1. A high-frequency amplifier including a vacuum tube having input and output electrodes in proximity and a conductive shell, an input circuit connected between said input electrode and ground, an output circuit connected between said output electrode and ground, and a reactance ef-



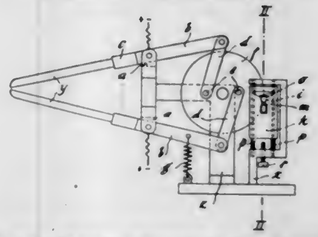
fectively connected between said shell and ground of such size that feedback from said output circuit to said input circuit due to the proximity of said input and output electrodes is substantially prevented.

2,156,359
OIL BURNER SUCTION DRAFT CONTROL
Robert T. Smith, Baltimore, Md., assignor to Sherwood Brothers, Inc., a corporation of Maryland
Application April 19, 1937, Serial No. 137,704
2 Claims. (Cl. 158—28)



1. In an oil burning apparatus comprising a rotary air blower, a housing encasing said blower, a motor located adjacent one side of said housing for operating said blower, said blower housing having an air inlet through the opposite side thereof and adjacent the axis of said blower, a muffling chamber supported about and outwardly from said air inlet, an opening in the opposite end of said casing, an oil force pump wholly located within said chamber and lying between the said opening and the air inlet to said blower housing, and means for receiving the air from said blower and conveying the same to a combustion chamber.

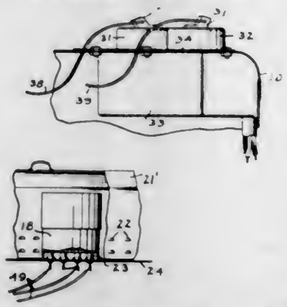
2,156,360
ARC LAMP
Albert Stahn, Hanover, Germany
Application July 12, 1935, Serial No. 31,057
In Germany August 19, 1933
7 Claims. (Cl. 176—103)



1. An arc lamp comprising in combination, two electrodes extending at an angle and arranged to oscillate relative to and into contact

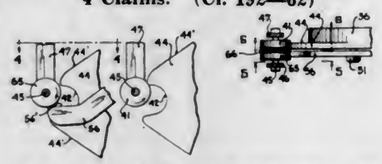
with each other, an oscillatable member positively connected with said electrodes and spring controlled mechanism arranged to arrest and hold said oscillatable member, to release it, when actuated by hand, to thereafter automatically re-engage said member and to automatically shift the tips of said electrodes away from each other and a check limiting said shifting movement.

2,156,361
STEAM BATH CABINET
Abraham B. Stout, Plymouth, Ind.
Application February 25, 1938, Serial No. 192,599
4 Claims. (Cl. 4—164)



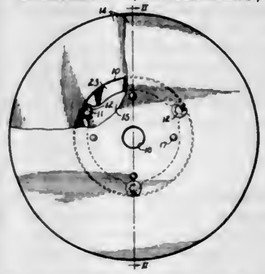
1. In a steam bath cabinet, having metal walls and floor, a fluid receptacle on the floor of the cabinet; an electrical, fluid vaporizing element associated with said receptacle; terminals extending from said element through said floor; flanges turned upwardly from the floor around said terminals to prevent condensation from flowing down the terminals; said cabinet having an element control switch on the top of the cabinet comprising a snap-acting rocker lever operable from the outside of the cabinet and an arm hinged to the lever and terminating within the cabinet; and having conductors between the switch and said terminals passing through the cabinet; and said cabinet also having a waterproof conduit within the cabinet enclosing said conductors therethrough.

2,156,362
CLUTCH
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 27, 1937, Serial No. 122,583
4 Claims. (Cl. 192—62)



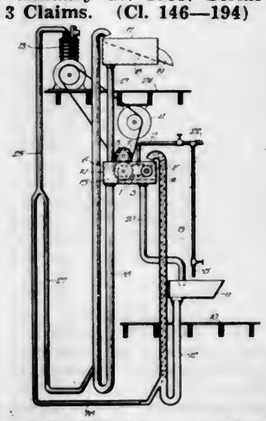
1. In a clutch of the class described, the combination of an optionally rotated member having a camming surface including a notch, a throwout dog pivotally disposed on the side of said member, means for yieldingly urging said throwout dog into a position partially closing one end of said notch, said dog and one side of said notch presenting oppositely disposed surfaces, a tripping lever having cam follower means adapted to follow said camming surface and wedge between said oppositely disposed surfaces as said cam follower means seats in said notch, thereby forcing said throwout dog away from the end of said notch, said cam follower means comprising a shaft fixed to said lever, a first roller journaled on said shaft and adapted to roll on said camming surface and into said notch, and a second roller journaled on said shaft adjacent to said first roller and free of said camming surface for engaging only said throwout dog and rolling thereon in a direction of rotation opposite to that of the first said roller.

2,156,363
SPOOL STRUCTURE
George G. Tucker, Jr., Berwyn, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois
Application June 6, 1938, Serial No. 212,003
8 Claims. (Cl. 242—123)



1. A spool comprising a cylindrical barrel composed of segments having inwardly extending hook flanges at their longitudinal edges, tie bars engaging the hook flanges of adjacent segments to secure the segments circumferentially together in abutting engagement to form the cylindrical barrel, and head structures secured to the barrel ends.

2,156,364
WASHING AND ELEVATING APPARATUS
William E. Urschel, Valparaiso, Ind.
Application January 10, 1935, Serial No. 1,101
3 Claims. (Cl. 146—194)



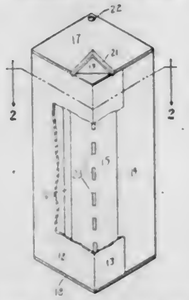
3. The hereindescribed process of heat treating peas and the like which comprises the steps of conveying the peas from a given point in a confined stream of water along a predetermined course of travel which includes upwardly extending portions, injecting steam into the stream of water at a plurality of spaced apart zones along

the upwardly extending portions of its travel, elevating by the injected steam the water and the peas therein above the given point and simultaneously blanching the peas by the injected steam and the water heated thereby as the peas are forced upwardly.

2,156,365
PRODUCTION OF HIGHLY ACTIVE METAL CARBIDES
Thomas H. Vaughn, Niagara Falls, N. Y., assignor to Union Carbide and Carbon Research Laboratories, Inc., a corporation of New York
No Drawing. Application April 14, 1937, Serial No. 136,814
16 Claims. (Cl. 23—208)

1. Process for producing a highly-reactive mixture containing an alkali metal carbide, which comprises heating and reacting an alkaline earth metal carbide with an alkali metal compound selected from the group consisting of the oxides, hydroxides, sulfides and carbonates, while preventing the temperature of the reaction mixture from becoming sufficiently high to reduce substantial amounts of alkali metal compounds to the corresponding alkali metal.

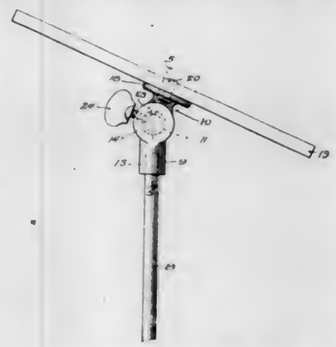
2,156,366
DISPENSING CONTAINER
Victor F. Voik, Brooklyn, N. Y.
Application April 13, 1938, Serial No. 201,652
6 Claims. (Cl. 229—17)



1. A container for liquid tending to separate into layers of different composition or concentration of an ingredient, said container having a main chamber and a passage extending from the top to the bottom and having restricted communication with said main chamber along the length of said passage, the upper end of said passage having a dispensing outlet from which the contents of said chamber may be dispensed substantially uniformly from various levels in the container upon tilting said container, and means for normally closing said outlet.

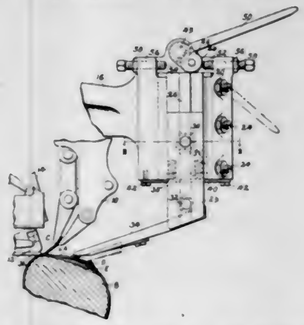
2,156,367
SWIVEL JOINT
Milton Zadek, Chicago, Ill., assignor to Reflector Hardware Corporation, Chicago, Ill., a corporation of Illinois
Application August 11, 1937, Serial No. 158,451
4 Claims. (Cl. 287—14)

1. A swivel joint comprising two members, each formed with a head having a flat face portion arranged to bear against the flat face portion of the other member, one head having a stud projecting from its flat face portion and the other head having a bearing socket extending inward from its flat face portion in which the stud is removably and rotatively held, concealed, cooperating lug and groove means on the stud and on the cylindrical wall of the bearing socket to prevent separation of the two members except in one angular position thereof, and threaded



means to rigidly secure the two heads together in any position of adjustment, said threaded means entering said groove and when partially unscrewed, serving to permit relative rotation between the two members but preventing separation thereof.

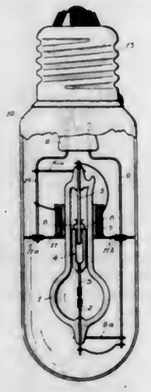
2,156,368
LASTING MACHINE
William Arthur Barton, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 3, 1937, Serial No. 172,576
In Great Britain December 8, 1936
10 Claims. (Cl. 12—2)



1. In a lasting machine of the single gripper progressive type, a sole rest arranged to be moved into either of two predetermined heightwise positions, and means for varying both of said positions each independently of the other.

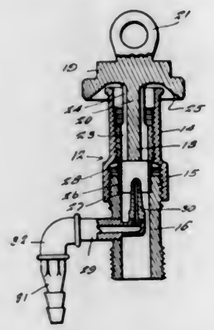
2,156,369
HIGH PRESSURE ARC LAMP
Zoltan Bay, Ujpest, Hungary, assignor to Egyesült Izzólámpa és Villamossagi r. t., Ujpest, Hungary
Application February 11, 1938, Serial No. 189,998
In Germany December 2, 1936
5 Claims. (Cl. 176—122)

1. A high pressure arc lamp comprising in combination, a hermetically closed bulb, two solid refractory electrodes in said bulb and a gas filling



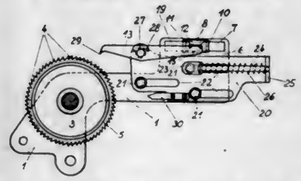
said bulb under a pressure, measured at a temperature below 50° C. of more than 2 atmospheres.

2,156,370
CLEANING APPARATUS
Charles O. Brownfield, Covington, Ky.
Application June 24, 1937, Serial No. 150,202
1 Claim. (Cl. 141—1)



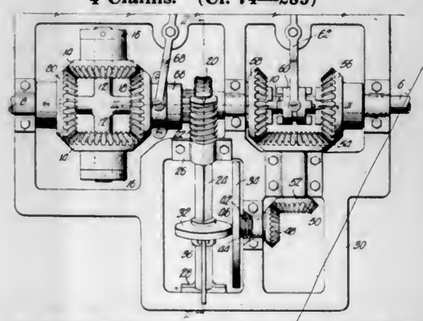
A cleaner of the class described comprising a barrel having an enlargement at one end thereof, said barrel and the enlargement being internally threaded, a shank, a head at one end thereof externally threaded to engage the threads of the barrel, said head having longitudinally extending ports therein, an enlarged deflector member connected with that end of the shank opposite the end which is connected with the head, said deflector member having its inner face shaped to deflect fluid passing through the barrel into conical form, a tubular member threaded into the enlargement of the barrel, a sleeve bearing against the head and a part of the inner end of the tubular member, means for connecting the outer end of the tubular member to a supply of fluid, a tube arranged at right angles to the tubular member and entering the same at one side thereof, means for connecting the tube with a source of fluid, and a nozzle connected to the inner end of the tube and located in the tubular member for directing the fluid from the tube into the ports of the head of the shank.

2,156,371
LINE SPACING MECHANISM
Eugen Buschmann, Chemnitz, Germany, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Akt.-Ges., Siegmar-Schonau, Germany
Application November 16, 1937, Serial No. 174,857
In Germany November 19, 1936
3 Claims. (Cl. 197—114)



1. A line spacing mechanism for a platen roll of writing machines comprising a ratchet wheel adapted to rotate with the roll, a frame, a slide slidable on the frame, a line spacing pawl cooperating with the ratchet wheel and pivoted on said slide, a cam stop on said frame so arranged in the path of the pawl as to control its engagement with the ratchet wheel in a line spacing operation, a member movable with the cam stop as a unit to determine the beginning of engagement of said pawl with said wheel to regulate line spacing, said regulating member being exchangeably fastened to said stop, and latch means operable to release said unit from said frame during a setting movement of the regulating member, said latch means automatically locking the unit to the frame on completion of a setting movement and including a pin fixed in the frame and a series of notches in the regulating member selectively engageable by the pin and corresponding to different line spacings.

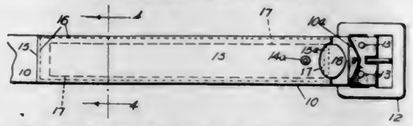
2,156,372.
MECHANICAL MOVEMENT
Phillip D. Campbell, Kansas City, Mo.
Application August 25, 1937, Serial No. 160,807
4 Claims. (Cl. 74—285)



1. In mechanism of the character described a drive shaft, an intermediate shaft having a pair of diametrically opposed, laterally extending arms rigid therewith; a beveled pinion loosely mounted for free rotation on each arm respectively; a beveled gear on the intermediate shaft in mesh with both of the pinions; a worm wheel on the intermediate shaft in selective connection with said beveled gear for rotation therewith; a cross shaft; a worm on the cross shaft in mesh with the worm wheel to drive the same and said beveled gear; a disc; mechanism actuated by the drive shaft for rotating the disc; a friction wheel slidably mounted on the cross shaft and in en-

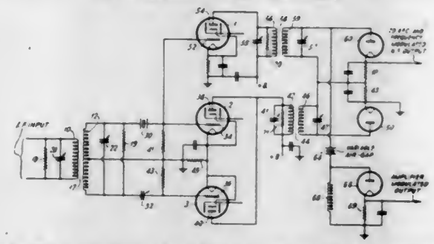
gagement with the disc; means for moving the friction wheel along the cross shaft to vary the speed of rotation of the said worm and beveled gear; a driven shaft; and a beveled gear on the driven shaft in mesh with the pinions on the said arms.

2,156,373
APPAREL BELT
John R. Craighead, Denver, Colo.
Application May 9, 1938, Serial No. 206,824
3 Claims. (Cl. 241—8)



1. In an apparel belt, a longitudinal pocket along an inner surface of the belt, having a slot-like opening transverse to its length, an envelope slidable through said opening, and a flap composed of an end of the belt, folded inwardly and normally overlapping said opening.

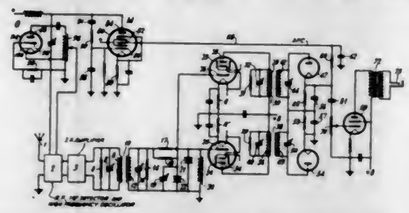
2,156,374
BACK TO BACK PHASE MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 22, 1937, Serial No. 165,056
19 Claims. (Cl. 250—20)



1. In a system for demodulating wave energy modulated in phase at signal frequency comprising a carrier and sideband frequencies, a filter circuit having a characteristic which is reactive in the same sense with respect to a band of sideband frequencies lying on both sides of the frequency to which the filter is resonant, a filter circuit the characteristic of which is reactive in the same sense but opposite to the sense of the aforesaid filter with respect to a band of sideband frequencies lying on both sides of the frequency to which the filter is resonant, means for applying phase modulated wave energy of a mean frequency substantially equal to said resonant frequency to said filter circuits, and means for detecting and combining the outputs of said filter circuits.

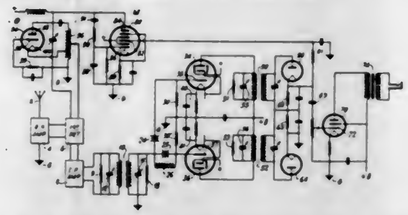
2,156,375
PHASE MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 5, 1937, Serial No. 167,344
23 Claims. (Cl. 250—20)

1. In a filter system for filtering modulated wave energy, a reactance energized by said modulated wave energy, an impedance, a series circuit including said impedance and reactance and output terminals, a piezo electric crystal in a holder connected in shunt to said output terminals said crystal in its holder being parallel



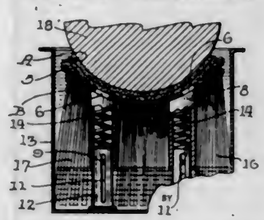
resonate at substantially the mean frequency of the modulated wave energy, and a utilization circuit connected to said output terminals.

2,156,376
SERIES CRYSTAL PHASE MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 8, 1937, Serial No. 178,655
8 Claims. (Cl. 250—20)



1. In a system for converting phase modulations on wave energy to corresponding amplitude modulations, a filter circuit which is capacitive on both sides of the frequency to which it is resonant as to a frequency spectrum of the order of a modulation frequency band, a second filter circuit which is inductive on both sides of the frequency to which the filter circuit is resonant as to a frequency spectrum of the order of a modulation frequency band, an impedance on which phase modulated wave energy may be impressed, pairs of output terminals, and means connecting said impedance and each of said filters in a series circuit including a different pair of said output terminals.

2,156,377
CELLAR LUBRICATOR
Joseph De Matteo, San Francisco, Calif.
Application August 17, 1937, Serial No. 159,577
2 Claims. (Cl. 308—88)



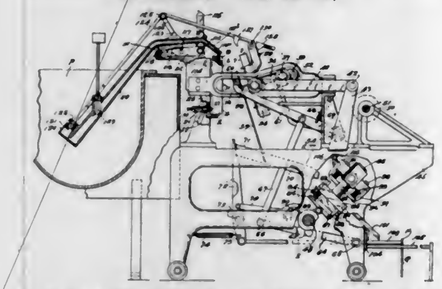
1. In a device of the class described capable of being inserted into a lubricant holding cellar box, of an arcuate pad holder positioned in said box and having perforations formed therein, supports for said holder arranged in said box and comprising telescopic members having pins extending therethrough and supporting posts extending thereinto, slots formed in said posts to receive said pins, springs in said telescopic members and bearing against said posts, and interwoven pads mounted on said arcuate holder, said pads including fringed sections extending through the perforations in said holder and into the lubricant in said cellar box.

2,156,378
METHOD OF NEUTRALIZING THE CONDITION PRODUCING QUALITIES OF FINELY PULVERIZED SILICIOUS MATERIALS
James J. Denny and Wilmot D. Robson, Schumacher, Ontario, Canada
No Drawing. Application January 18, 1939, Serial No. 251,532
12 Claims. (Cl. 52—1)

1. The method of neutralizing the lung fibrosis-producing properties of finely pulverized silicious materials, comprising intimately associating therewith aluminous material capable of offsetting said properties in the respiratory organs.

11. A method as claimed in claim 4 in which the association of the aluminum with a silicious dust is accomplished by placing the pulverized aluminum with a blasting charge in a container separate from said blasting charge and dispersing same simultaneously with the creation of the silicious dust in the explosion of the blasting charge.

2,156,379
AUTOMATIC BATTERY GRID CASTING AND TRIMMING MACHINE
George A. Donath, Los Angeles, Calif.
Application April 5, 1937, Serial No. 135,125
10 Claims. (Cl. 29—2)

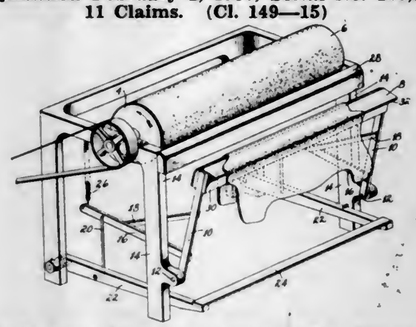


6. A grid casting machine having, in combination, upright cooperative mold sections having matrix faces meeting in a vertical plane, one section having means to cause adherence of the cooled cast thereto, means for opening the relation of the sections by bodily laterally shifting the latter section apart from the other to an upright position with its mold face tilted slightly downward, means for ejecting the cast from the section to which it adheres, means movable into upright position adjacent to the tilted face of the cast carrying section for receiving the ejected casts, a transfer device to which the cast is delivered by the receiver, and means for trimming each cast and to which the casts are delivered by said device, and a drive mechanism connecting and coordinating the action of the said mold operating means and the trimming means for complete automatic operation of the machine.

2,156,380
ADHESIVE SHEETING
Richard Gurley Drew, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application February 18, 1938, Serial No. 191,265
12 Claims. (Cl. 91—68)

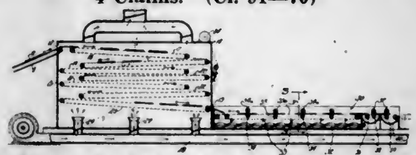
1. An adhesive sheet having a substantially transparent flexible sheet backing and an adhesive coating firmly united thereto and comprised of raw rubber and low-acid type ester gum combined in proportions such that the coating is highly coherent and normally tacky and pressure-sensitive.

2,156,381
POLISHING MACHINE
David Edgar, Lynn, Mass., assignor to The Tanning Process Company, Boston, Mass., a corporation of Massachusetts
Application February 1, 1937, Serial No. 123,348
11 Claims. (Cl. 149—15)



1. In a machine for treating hides, skins and leather, a rotary tool, co-operating clamping members relatively movable with respect to each other to engage and hold a piece of work against displacement while a portion thereof is being treated by said tool, supporting members movably mounted on the frame of the machine and arranged to support one of the clamping members for movement toward and from the other, a treadle connected to operate the supporting members, and a gage member mounted to move with the movable clamping member and having a linear dimension of its operative surface approximately coextensive with the corresponding linear dimension of the operative surfaces of the clamping members, said gage member enabling the operator to determine the position of the work piece in the work clamping members.

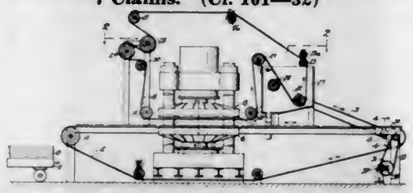
2,156,382
METHOD FOR TREATING COMPOSITION BOARDS
John Ferla, New York, N. Y.
Application February 17, 1937, Serial No. 126,197
4 Claims. (Cl. 91—70)



1. The method of treating composition boards, including the steps of placing the boards in a

heated zone, maintaining said boards in said zone for a considerable time while in motion, and subsequently conducting said boards over a bath of paint to afford absorption and covering of the paint on one surface of said boards only.

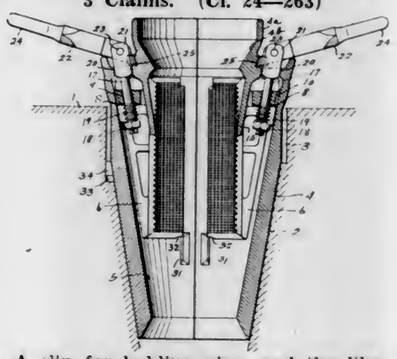
2,156,383
METHOD OF AND APPARATUS FOR TREATING BOARDS OF COMPOSITION MATERIAL
John Ferla, New York, N. Y.
Application May 13, 1937, Serial No. 142,405
7 Claims. (Cl. 101—32)



1. The method of subjecting a sheet of composition material to pressure to imprint a pattern, including the steps of placing an endless fabric belt between said material and the pressure means provided with a pattern, to preclude contact between said material and the pressure means, and moving the belt after each pressure application to present a new belt section to the material.

4. In an apparatus for pressing composition boards to imprint a pattern, an intermittently moving conveyer carrying the boards, means provided with a pattern for imparting pressure thereto, and a fabric interposed between said boards and said pressure means to prevent direct contact.

2,156,384
SLIP
Robert L. Fluellen, Houston, Tex.
Application January 28, 1937, Serial No. 122,761
3 Claims. (Cl. 24—263)



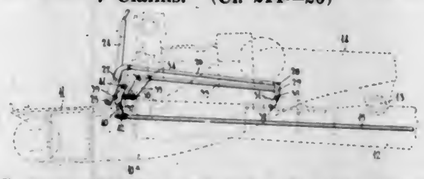
1. A slip for holding pipe, and the like, suspended and comprising a tubular cage shaped to fit into and extend above a downwardly converging seat and shaped to receive the object to be held and having an inside downwardly converging seat, slip segments in the cage movable downwardly and inwardly upon said seat into active position in engagement with the object to be held and movable upwardly wholly within the cage, lift rods connected with the segments, lift levers connected to the rods through which the segments may be moved upwardly, means for moving the segments outwardly into inactive position against the walls of the cage upon such upward movement, said cage and levers having interengaging parts whereby said segments may be held in said inactive position, yieldable means around the rods arranged to be placed under compression, upon such upward movement, whereby the interengaged parts are yieldingly held in interengaged position and an inside downwardly and inwardly tapering guide integral with the upper end of the cage to direct a downwardly moving object into the cage.

2,156,385
PRINTING ROLL
Abraham L. Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Original application March 9, 1934, Serial No. 714,838. Divided and this application October 14, 1935, Serial No. 44,825
2 Claims. (Cl. 91—67.8)



1. In combination in a printing roller, a metal supporting rod having a sand blasted surface; a hard rubber cover cemented thereto; a rubber base stock of relatively soft rubber cemented and vulcanized thereto; and a relatively thin flexible cover sleeve comprising a tube mounted on said soft rubber, said tube having an outer surface that is mirror-like, tough and smooth, and an inner surface that is relatively rough.

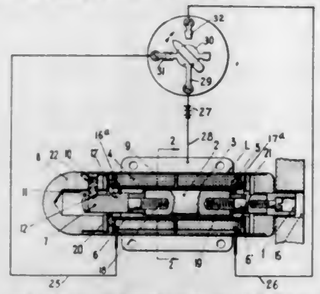
2,156,386
CHARGING MACHINE
Alfred Frick, Alliance, Ohio, assignor to The Morgan Engineering Company, Alliance, Ohio
Application June 17, 1938, Serial No. 214,363
7 Claims. (Cl. 214—26)



7. In a charging apparatus for open hearth furnaces or the like, a carriage, a peel pivotally mounted at its medial portion on said carriage for movement about a horizontal axis, an axially movable locking rod carried by the peel and movable by the power of the operator, an operator's station fixedly mounted on the carriage at the rear end portion of the peel, a control member mounted at the operator's station and manipulated by the operator, and linkage directly transmitting movements of the control member to the rear end portion of the locking rod in all positions of the peel to permit the operator to actuate the locking rod under his own power regardless of the position of the rear end of the peel.

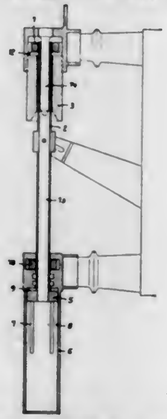
2,156,387
ELECTROMAGNETIC LATCH BOLT
Isidoro Goldfinger, Milan, Italy
Application May 5, 1936, Serial No. 78,062
In Italy May 7, 1935
2 Claims. (Cl. 292—144)

1. In combination, a plunger, a latch bolt carried by said plunger, two coils surrounding said plunger and adapted to be alternately energized to move the plunger in opposite directions to project and retract said bolt, means controlled by said plunger to interrupt the flow of current to each coil subsequent to energization thereof, said



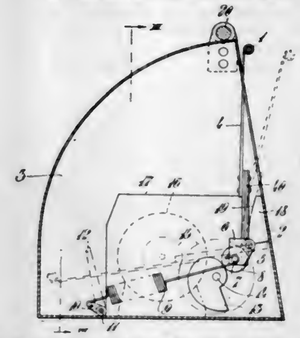
means including combined guide and contact members for the plunger connected with one end of each coil, and insulating members carried by the plunger alternately engageable with the respective contact members.

2,156,388
ELECTRIC SWITCH
Vitaly Grosse, Berlin-Lichterfelde, Germany, assignor to Frida Strauss, née Ruppel, New York, N. Y.
Application November 21, 1936, Serial No. 112,167
In Germany November 25, 1935
8 Claims. (Cl. 200—149)



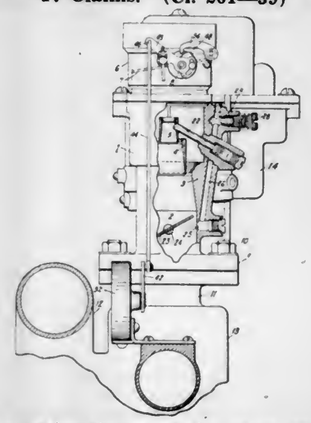
1. In an electric switch containing pressure means for extinguishing the arc, the pressure of which means is produced by the heat of the arc, a blow-out chamber and a movable switching member adapted to close the said blow-out chamber in an essentially piston-like manner and in which the pressure of the said means exerts on the said movable switching member a force which accelerates the switching-off movement, a piston connected to the switching member, a cylinder for the said piston, the means connecting the piston to the switching member being made hollow to connect the part of the said cylinder facing away from the blow-out chamber with the blow-out chamber, whereby the forces which accelerate the movable switching member during the switching-off operation are opposed by forces which increase with the pressure of the pressure means.

2,156,389
MACHINE FOR CLEANING CARPETS, GARMENTS, AND THE LIKE
Hjalmar Hammarling, Stocksund, near Stockholm, Sweden
Application April 9, 1936, Serial No. 73,529
In Sweden April 17, 1935
6 Claims. (Cl. 15—89)



1. In a machine for cleaning carpets and the like, a frame including a support for the article to be cleaned, beating elements including oscillatable arms mounted in the framework, each of said arms being flexible along a portion of its length, and a rigid stop device secured to the frame, said stop device having a convex stop surface situated in the path of movement of said arms, said surface extending from the axis of oscillation of the arms and being arranged to be engaged by the flexible portions of the beating arms in the outswinging motion thereof, for the purpose of checking the motion of said arms progressively from the axis of oscillation of the arms outwardly.

2,156,390
CARBURETOR FOR INTERNAL COMBUSTION ENGINES
Otto Henning, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application May 12, 1932, Serial No. 610,865
17 Claims. (Cl. 261—39)



1. In a carburetor, a choke valve, said choke valve being constructed and arranged to be operated by suction, a heat responsive device for moving said choke valve to closed position, spring

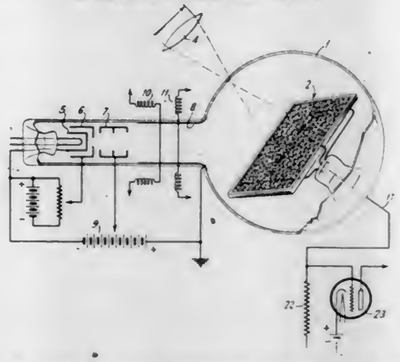
means for resisting the initial opening movement of said choke valve, and a latch for controlling said spring means.

2,156,391

TELEVISION TRANSMITTING TUBE

Willard Hickok, Bloomfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, a corporation of Delaware

Application December 31, 1936, Serial No. 118,482
5 Claims. (Cl. 250—153)



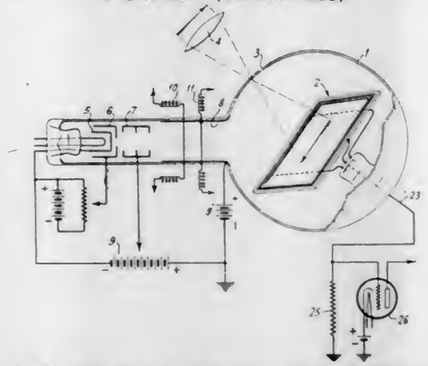
1. A cathode ray television transmitting tube comprising an envelope having a light transmitting vitreous portion which is inherently light reflecting on the surface facing the interior of the envelope for the transmission of an optical image, an electrode assembly including a translucent base exposed to said portion, a light sensitive material on the side of said base facing said vitreous portion, and a black coating substantially non-reflective to light on the opposite side of said base.

2,156,392

TELEVISION TRANSMITTING APPARATUS

Harley A. Iams, Berkeley Heights, N. J., assignor, by mesne assignments, to Radio Corporation of America, a corporation of Delaware

Application December 30, 1936, Serial No. 118,194
6 Claims. (Cl. 250—153)



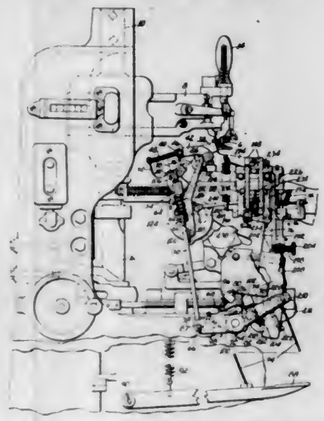
4. A cathode ray television transmitting tube comprising an envelope having a light transmitting portion, a sheet of material having low specific heat and low heat transmission, a continuous film of metal having negligible photosensitivity having a thermoelectric power greater than 50 at 20° C. with respect to platinum on one surface of said sheet to produce a thermal pattern in response to a light pattern projected on said film, a lead electrically connected to said film, means for generating a cathode ray beam and scanning said film with said beam, and an anode adjacent said film.

2,156,393

MACHINE FOR SHAPING UPPERS OVER LASTS

Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application July 6, 1938, Serial No. 217,795
47 Claims. (Cl. 12—14)



1. In a machine for shaping uppers over lasts, a device for embracing an upper about the toe end of a last and for wiping the upper heightwise of the last, means for effecting relative movement of said device and the last to cause the device thus to act on the upper, means for pulling the upper heightwise of the last at the end and the sides of the toe in the course of said relative movement, said upper-pulling means being arranged to maintain the lasting margin of the upper outspread at the end of the toe and in substantially perpendicular relation to the shoe bottom at the sides of the toe in the upper-pulling operation, and means for wiping the margin of the upper about the toe inwardly over the bottom of the last into lasted position after the pulling of the upper.

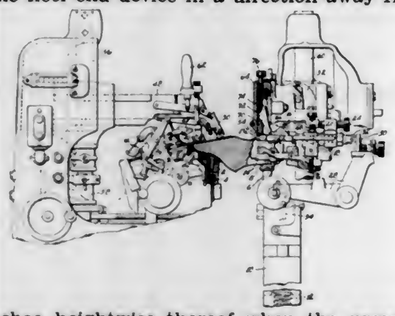
2,156,394

LASTING MACHINE

Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application July 7, 1938, Serial No. 217,932
8 Claims. (Cl. 12—12)

1. In a power-operated lasting machine, wipers for wiping the margin of the toe end of an upper inwardly over an insole on a last, means for supporting the last and shoe yieldingly against pressure on the bottom of the shoe, devices arranged to act on the bottom of the shoe at its toe and heel ends respectively to position the shoe heightwise against the resistance of said supporting means, automatic means for relieving the pressure of the toe-end device on the shoe when the toe wipers are over the shoe bottom to permit the toe end of the shoe to be pressed more firmly against said wipers by said supporting means, and means for preventing movement of the heel-end device in a direction away from



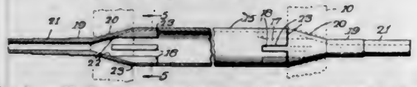
the shoe heightwise thereof when the pressure of the toe-end device on the shoe is thus relieved.

2,156,395

ROLL FOR HEAT TREATING FURNACES

Henning Klouman, Michigan City, Ind., assignor to Michiana Products Corporation, Michigan City, Ind., a corporation of Indiana

Application July 22, 1935, Serial No. 32,537
3 Claims. (Cl. 263—6)



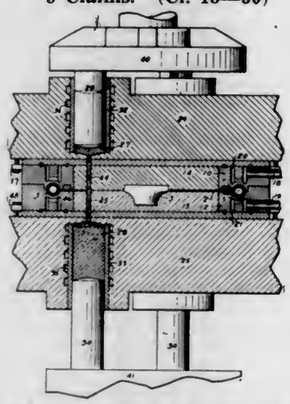
1. A roll for conveying material through heat treating furnaces comprising a hollow body section of high heat resisting material, a pair of end sections having reduced outer portions forming journals, one of said sections at each end of the roll having narrow slots forming comparatively wide teeth and the other section adjacent thereto having narrow teeth engaging in said slots, said teeth having a materially greater dimension radially of said roll than circumferentially thereof and materially greater than the thickness of the material of said roll, and welds along the meeting edges of said teeth.

2,156,396

EXTRUSION MOLD

Justin W. Macklin, Lakewood, Ohio, assignor, by mesne assignments, to Thermo-Plastics, Incorporated, St. Clair, Mich., a corporation of Michigan

Application February 1, 1936, Serial No. 61,864
9 Claims. (Cl. 18—30)



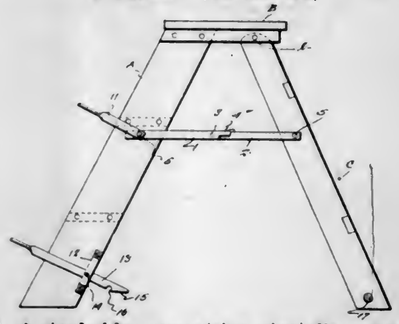
2. An injection type mold for producing articles of thermoplastic material comprising separable mold blocks having an article forming cavity, means controlling the temperature of the cavity, a primary heating cylinder in one mold block, a piston associated with the primary heating cylinder, a secondary heating cylinder and an associated piston in the other mold block, a passage connecting the primary and secondary heating cylinders and a gate at the parting line of the mold blocks connecting the passage with the cavity.

2,156,397

STEPLADDER

Lewis L. Mohr, Philadelphia, Pa.

Application May 11, 1938, Serial No. 207,398
2 Claims. (Cl. 228—33)



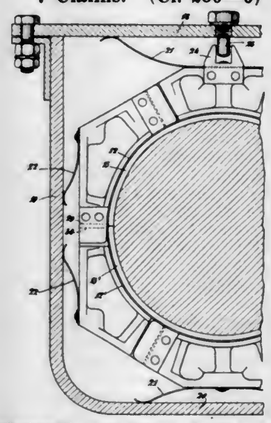
1. A stepladder comprising pivotally connected front and rear members, a shaft journalled on the front member, a link fixed on said shaft, means operatively connecting said link to the rear member, a coil spring encircling the shaft and having one end anchored to the front member and its other end anchored to the shaft for actuating said shaft in one direction for swinging the rear member away from the front member, and means on the shaft for manually rotating same in the opposite direction and against the tension of said coil spring.

2,156,398

LUBRICANT RETAINING DEVICE

Jules Moreau, Paris, France

Application November 18, 1936, Serial No. 111,484
In France October 5, 1936
7 Claims. (Cl. 286—6)



1. A lubricant retaining device applicable to rotary shafts which comprises, in combination,

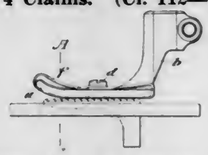
a supple lining adapted to be applied against said shaft and capable of stopping said lubricant, a plurality of curvilinear segments disposed end to end, without direct permanent connection between them, a band of an elastic material interposed between said lining and said segments, and means for individually fixing said segments to said band and said lining.

2,156,399

PRESSER FOOT FOR SEWING MACHINES

Otto Mohn, Stuttgart, Germany, assignor to Mauser-Werke A.-G., Oberndorf-on-the-Neckar, Germany, a joint-stock company of Germany

Application April 27, 1937, Serial No. 139,313
In Germany April 16, 1936
4 Claims. (Cl. 112—235)



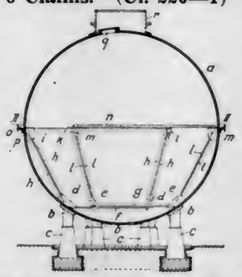
1. A presser foot for sewing machines comprising a bottom portion, at least one resilient runner mounted on the said bottom portion, the said runner constituting a complete resilient band entirely embracing the bottom portion, and a single fastening means connected to the runner and inserted into the upper side of the bottom portion.

2,156,400

SPHERICAL CONTAINER FOR STORING FLUIDS, SUCH AS GAS AND LIQUIDS

Walter Pechstein, Dortmund, Germany, assignor to the firm Aug. Klönne, Dortmund, Germany

Application November 13, 1937, Serial No. 174,444
In Germany May 20, 1937
6 Claims. (Cl. 220—1)



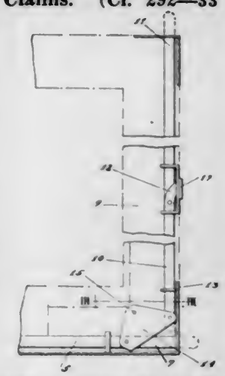
1. In combination, a spherical container adapted to receive compressed fluids, a foundation, at least three supports adapted to transmit the forces exerted by the dead weight and the weight of the charge of the container upon the said foundation, lower struts engaging with their ends the points of the inner wall of said container where the container rests on the said supports and forming together at least one lower polygonal frame, upper struts fixedly connected at both ends to the inner wall of said container at points lying in the horizontal middle portion of the spherical container and forming together at least one upper polygonal frame and inclined struts connecting the corner points of said upper and lower polygonal frames, whereby a self-supporting frame work is formed which is adapted to transfer the loads due to the dead weight and weight of the charge of the container directly upon said supports without substantially stressing the walls of the container.

2,156,401

LOCKING MEANS FOR WINDOWS AND THE LIKE

Eric Sigfrid Persson, Malmo, Sweden

Application November 10, 1937, Serial No. 173,904
In Sweden June 14, 1937
2 Claims. (Cl. 292—33



1. In a window comprising a window-frame, a window-sash mounted in said window-frame, and pivots provided at opposite edges of said window-sash to enable the window-sash to be turned in the window-frame on said pivots, a locking bolt mounted at an edge of the window parallel to the pivot axis, operating means for displacing said locking bolt longitudinally, a locking means adjacent the pivot axis of the window, and means connecting said locking bolt to said locking means to make them movable together by said operating means, said window-frame having a series of locking recesses therein adapted to register with said locking bolt and another series of locking recesses adapted to register with said locking means, said two series of locking recesses being arranged in a way to make the locking bolt operative in closed and in relatively slightly opened positions of the window, and said locking means being operative in more widely opened positions of the window.

2,156,402

PROCESSES FOR SEPARATING PHENOL AND HYDROGEN CHLORIDE FROM THE MIXTURE OF VAPORS OBTAINED BY PASSING CHLOROBENZENE VAPOR AND STEAM OVER A CONTACT AT A RAISED TEMPERATURE

Walter Prahl, Ludwigshafen-on-the-Rhine, Germany, assignor to F. Raschig G. m. b. H., Ludwigshafen-on-the-Rhine, Germany, a firm of Germany

No Drawing. Application January 21, 1932, Serial No. 587,928. In Germany January 26, 1931
26 Claims. (Cl. 260—627)

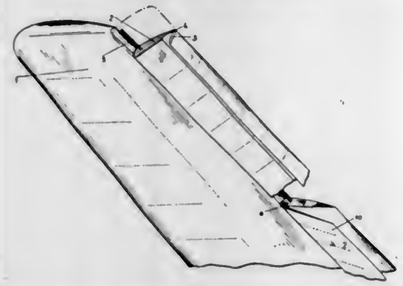
1. A process for separating phenol and hydrogen chloride from the mixture of vapors obtained by passing chlorobenzene vapor and steam over a catalyst at a raised temperature, which comprises removing the reaction products from the mixture of vapors while at least the bulk of the vapor mixture is in the vapor phase, by treating the vapors with a substance in which said reaction products are absorbable.

2,156,403

LATERAL CONTROL SURFACES OF AIRPLANES

Henri Rivière, Paris, France, assignor to Compagnie des Avions Hanriot, a corporation of France

Application May 3, 1937, Serial No. 140,489
In France March 13, 1937
3 Claims. (Cl. 244—42)



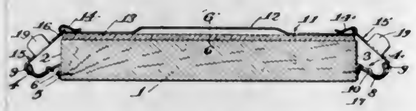
1. On an airplane wing, in the central part of the wing, single split flaps and at the ends superposed double flaps each including an upper flap hinged to the wing and a lower flap hinged by its own trailing edge in the proximity of the trailing edge of the upper flap, the single split flaps and the lower flaps of the double flaps being controlled simultaneously by the same operation.

2,156,404

PAPER CLAMPING DEVICE

William Horace Sinclair, Los Angeles, Calif.

Application December 16, 1936, Serial No. 116,166
10 Claims. (Cl. 45—131)



2. The combination of a drawing board having parallel sides provided with guide rails, each guide rail being made of sheet metal having a longitudinal portion fastened to the lower portion of the side and extending downwardly and outwardly therefrom to form a trough, a sheet metal clamp bar extending transversely of the board and provided with a longitudinal, central rib extending upwardly therefrom, and arms made of resilient sheet metal pivoted to the ends of the clamp bar and being curved to correspond to the curvature of the trough and engaging the exterior face thereof in sliding relation, said arms being provided with upstanding lugs to form manual grips for moving the clamp bar and its arms longitudinally in relation to the drawing board.

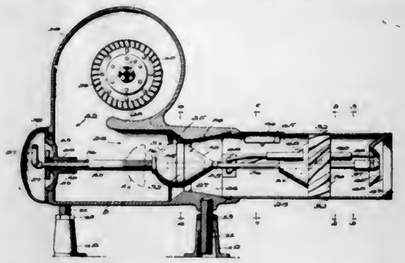
2,156,405

OIL BURNER

Theophilus H. Smoot, Baltimore, Md.

Application December 20, 1935, Serial No. 55,469
4 Claims. (Cl. 158—76)

1. An oil burner having, in combination, fuel supply means, air supply means, an air blast tube connected to said air supply means, an oil discharge pipe extending axially through said tube and connected to the fuel supply means, said tube having a constricted throat, air control valve means carried by said pipe and movable axially thereon into and entirely through said throat, a valve actuating member carried by said



pipe and movable thereon to operate said valve means, and means at the end of the oil discharge pipe for spraying oil into the air leaving said air blast tube.

2,156,406

METHOD OF TREATING NUTS

Arthur F. Stagmeier, Montclair, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 16, 1936, Serial No. 91,005
20 Claims. (Cl. 146—219)

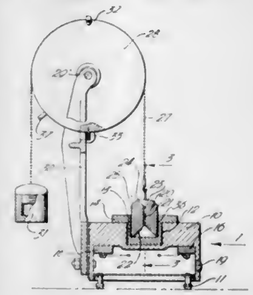
1. A method of treating nuts having skins comprising lignin and fibrous cellulosic material which includes the steps of subjecting the nuts to the action of a solution containing both hydrolyzing and oxidizing agents for a period of time sufficient to effect both hydrolysis of the lignin and oxidation of the cellulosic material and consequent loosening and dissolution of the skins of the nuts, washing the kernels until they are substantially free of said solution, and then drying the kernels to the desired moisture content.

2,156,407

VISCOSIMETER

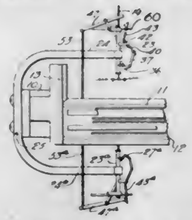
Clifford R. Stewart, Los Angeles, Calif., assignor to Faber Laboratories, Inc., Los Angeles, Calif., a corporation of California

Application September 26, 1938, Serial No. 231,726
4 Claims. (Cl. 265—11)



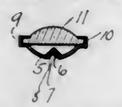
1. A viscosimeter comprising means providing a receptacle adapted to contain a sample to be tested, a body adapted to be positioned in the receptacle and to fit therein with a small clearance having a passage therethrough communicating with a receptacle in said body, and means for imposing a predetermined force tending to lift the body from said receptacle.

2,156,408
CIRCUIT CLOSING MEANS FOR LOOM STOP MECHANISM
Russel Stewart, Catawissa, Pa.
Application April 22, 1938, Serial No. 203,683
15 Claims. (Cl. 139—233)



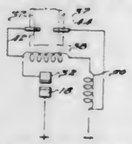
1. In an electrically operated stop mechanism for a loom having a shiftable shuttle box, a spring-pressed circuit closing means, means supporting said circuit closing means in the path of the movement of said box to an inactive position, means connected to said box and said circuit closing means for tensioning said circuit closing means upon movement of said box to an inactive position, and means operatively connected to said circuit closing means and said tensioning means for releasing said circuit closing means upon initial movement of said box to an active position.

2,156,409
LUMINOUS SIGN
Paul Stobbe, San Francisco, Calif.
Application February 21, 1938, Serial No. 191,810
2 Claims. (Cl. 40—134)



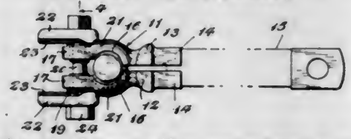
1. A luminous street number comprising a frame substantially semi-circular in cross section and having its medial portion V-shaped, the medial portion thereof being coated with a radio active paint and the concave inner faces of said frame being highly polished, and a lens mounted in said frame and embodying an inner flat face section and an outer convex portion and having its inner flat face positioned in close proximity to said V-shaped section of the frame.

2,156,410
CURRENT INTERRUPTING SYSTEM
Jerome J. Taylor, Detroit, Mich.
Application January 11, 1937, Serial No. 119,969
12 Claims. (Cl. 175—294)



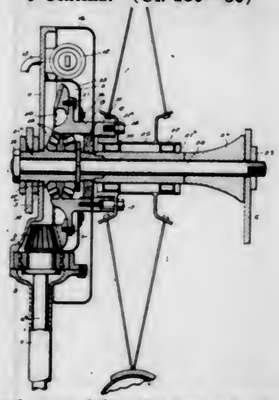
1. In a switch, the combination of a pair of separable main contacts in the circuit of an inductive load element and between which a primary arc may be drawn when they are separated, means providing a blowout field for said primary arc, and auxiliary contact means electrically connected to said circuit between which a secondary arc may form as a consequence of said primary arc, said auxiliary contact means being so disposed that said secondary arc runs substantially parallel to the direction of said blowout field.

2,156,411
BATTERY TERMINAL CONNECTOR
William S. Thomas, Montoursville, Pa., assignor of nineteen per cent to Joseph G. Saricks, 2nd, Freeland, Pa.; nineteen per cent to Herbert T. Flook, nineteen per cent to Stanford Flook, nineteen per cent to Hughes G. Meaker, all of Mansfield, Pa., and five per cent to Christian R. Nielsen, Washington, D. C.
Application December 19, 1936, Serial No. 116,813
9 Claims. (Cl. 173—259)



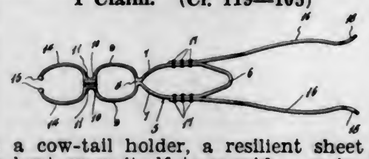
3. A terminal connection comprising a pair of members each of which include a recess for receiving a battery post therebetween, a bolt journalled in the members at one end, a flexible elastic cable member connected to the other ends of the members, each of said members having a cam face upon their exterior surfaces and positioned at diametrically opposite sides, an elongated cam member fixed on each end of the bolt, each cam having a cam face cooperable with respective cam faces of the members, and an angular head on the ends of the bolt whereby the bolt and cam members may be rotated in unison.

2,156,412
DRIVE MECHANISM FOR TANDEM WHEEL VEHICLES
James G. Tingle, Miami, Fla.
Application June 29, 1938, Serial No. 216,571
6 Claims. (Cl. 180—30)



1. A bevel gear drive for two wheeled vehicles of the character described, comprising in combination a pair of fixed side frame members, a transverse fixed tubular shaft supported from said members divided intermediate its length to constitute two separable parts, a ring gear mounted to rotate upon one part of said tubular shaft, a brake drum rotating with the ring gear, a driving pinion meshed with the ring gear, a longitudinally extending drive shaft upon which said pinion is mounted, a housing in which the drive shaft and pinion are enclosed, said housing including a fixed disc which closes the open side of the brake drum, brake mechanism within the drum and supported from said disc, a wheel, anti-friction bearings supporting the wheel from the other part of the tubular shaft and removable fastenings securing the wheel to rotate with the brake drum and ring gear.

2,156,413
COWTAIL HOLDER
John Van Der Meulen, Blooming Grove, N. Y.
Application November 17, 1937, Serial No. 175,088
1 Claim. (Cl. 119—105)



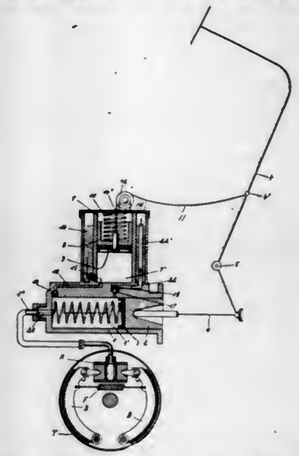
In a cow-tail holder, a resilient sheet metal strip bent upon itself to provide a pair of side arms, the arms being directed towards each other for point contact, a pair of opposed outwardly arched portions in the arms with the arms having point contact between said arched portions to provide a closed loop intermediate the ends of the arms and an end loop open at its outer end, the point contact of the arms between the closed and open loops having the arm portions serrated to facilitate gripping the hair of a cow's tail, a right angularly extending rod at the outer end of each arm at the outer loop providing a pair of cow-leg gripping jaws and a handle carried by the outer side of each arm adjacent the fold line of the strip constituting operating handles for separating the points of contact of the normally closed resilient arms.

2,156,414
INTRODUCING ACTIVE METALS INTO ENVELOPES
Delos H. Wamsley, West Caldwell, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application February 26, 1938, Serial No. 192,784
8 Claims. (Cl. 250—27.5)

7. The method of introducing an active metal in an electron discharge device comprising mixing a powdered stable compound of said active metal with powdered aluminum in a binder solution comprising 10 grams of camphor and about 39 grams of nitrocellulose dissolved in 1,000 cubic centimeters of diethylene glycol monobutyl ether, coating a refractory core comprising a metal of the group consisting of molybdenum, nickel and iron, heating the coating to evaporate said ether, mounting the coated core in the envelope of said device, heating the coated core to evaporate said binder, and then heating the coated core in vacuum to decompose the compound and liberate the active metal.

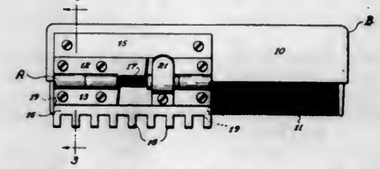
2,156,415
BRAKE SYSTEM
Hermann Kurt Weihe, Berlin, Germany
Application June 30, 1936, Serial No. 88,202
In Germany July 1, 1935
6 Claims. (Cl. 188—152)

1. A hydraulic brake system for vehicles of any type, including a main cylinder, a piston slidable therein, means for operating said piston, a re-filling pump communicating with the main cylinder, a spring-loaded piston within said pump and flexible tension means connecting said spring-loaded piston to the brake lever of the



vehicle, said spring-loaded piston acting to inject fluid into the main cylinder when the brakes are released.

2,156,416
ANIMAL COMB
Gustavus A. Wikander, Portland, Oreg.
Application May 9, 1938, Serial No. 206,811
8 Claims. (Cl. 119—87)

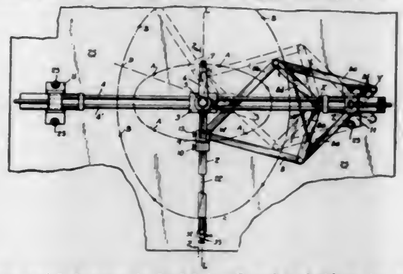


1. A device of the character described comprising a comb, an insect trapping member hingedly attached to said comb, said member normally resting on said comb and having a downwardly curved finger portion extending beyond and normally below the teeth of said comb, said finger portion serving to raise said member above said teeth when said comb is pressed against the skin of an animal, and means for causing said member to return to normal position when said comb is lifted from the skin of the animal.

2,156,417
APPARATUS FOR TRACING CURVED LINES
David John Witherspoon, New York, N. Y., assignor to Bee-Ko Company, a corporation of New York
Application May 20, 1937, Serial No. 143,680
1 Claim. (Cl. 33—31)

In an apparatus for accurately tracing an ellipse the combination of a main frame provided with a rectilinear guide and means for fastening it in a position such that said guide will extend in parallel and fixed relation to a plane surface on which such line is to be traced, a movable member provided at one point with pivotal means adapted to slide along said rectilinear guide, and mechanism comprising a swinging straight-line motion-producing device formed of a plurality of links pivoted together and provided with elastic

means for maintaining all the pivots thereof continually under a strain in the same general direction sufficient to overpower any normal operative strains in opposite directions exercised thereon, said mechanism being pivoted at one point on said guide and at another point pivoted to said movable member, combined with a marker adjustably mounted on said movable member and adapted to bear on and move over any surface on which said main frame is supported; whereby,



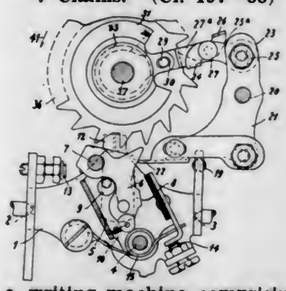
when said frame is held in fixed relation to such surface with said marker bearing thereon and said movable member is caused to revolve about the axis of said first mentioned pivotal means, the latter and said second point on said member at which it is pivoted to said straight-line motion-producing device are then severally compelled to travel along their respective rectilinear paths, thereby causing said marker to trace the predetermined ellipse, or portion thereof, on such plane surface.

2,156,418

NOISELESS RETURN FOR TYPEWRITER CARRIAGES

Friedrich Wunderlich, Nuremberg, Germany, assignor to the firm Triumph-Werke Nürnberg A.-G., Nuremberg, Germany

Application April 4, 1938, Serial No. 200,007
In Germany May 27, 1937
7 Claims. (Cl. 197—88)



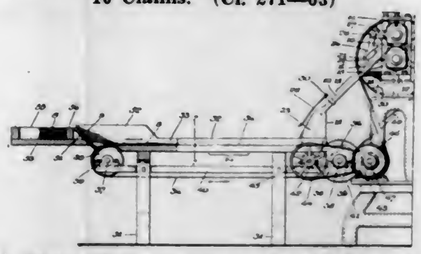
1. In a writing machine comprising a frame and a carriage reciprocable on the frame, the provision of means for the noiseless return of the carriage, comprising a ratchet wheel rotatably mounted in the frame, a movably mounted ratchet tooth capable of engaging with the ratchet wheel but tending by its own weight to move out of engagement therewith, a movable abutment for moving the said ratchet tooth into engagement with the ratchet wheel, and actuating means, including friction driving means, operatively connected to the abutment and to the ratchet wheel, for moving the abutment in the direction to bring the ratchet tooth into engagement with the ratchet wheel, on the ratchet wheel being turned in the normal carriage-feed direction and moving the abutment in the opposite direction, on the ratchet wheel being turned in the reverse direction, so as to allow the ratchet tooth to pass out of engagement with the ratchet wheel under its own weight.

2,156,419

MEANS FOR ASSEMBLING STRIPS OF FLEXIBLE MATERIAL

Joseph E. Zomnir, Springfield, Mass., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application March 2, 1938, Serial No. 193,444
10 Claims. (Cl. 271—63)



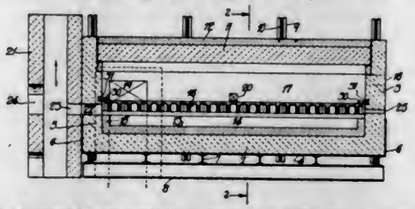
1. Means for assembling elongated strips of flexible material as they are discharged lengthwise in succession from a slitting machine having cutters, comprising a downwardly inclined chute for the longitudinal guidance and descent of the said strips, said chute having longitudinal walls spaced laterally from the cutters, one of said walls arranged and adapted to receive and support the body of each succeeding strip laterally beyond the longitudinal median line of the strip until the strip has been freed from the cutters, and means whereby the longitudinal edge of the strip overhanging the space between the walls is downwardly deflected as the strip passes from the slitter.

2,156,420

METAL VAPORIZING FURNACE

George Anderson, Hammond, Ind., and Rangwald S. Olsen, Chicago, Ill., assignors to International Smelting & Refining Company, New York, N. Y., a corporation of Montana

Application May 28, 1937, Serial No. 145,257
6 Claims. (Cl. 266—24)



1. A metal vaporizing furnace which comprises a monolithic container for molten metal, a furnace structure having a bottom and side and end walls supporting and enclosing said container and having a roof and a partition arch sprung from the sides and sealed to the end walls of said furnace to provide a combustion chamber thereabove and a vaporizing chamber therebelow.

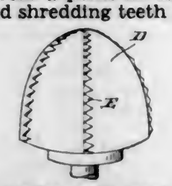
2,156,421

SHREDDER

Guillermo Austria, Los Angeles, Calif.

Application January 12, 1937, Serial No. 120,210
2 Claims. (Cl. 146—106)

1. In a shredder, a series of radially extending blades, a hub supporting said blades, said blades having their outer margins extended on parabolic curves leading from a point in axial alignment with the hub, and shredding teeth formed on the



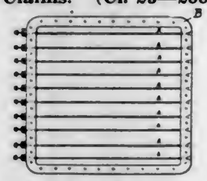
margins of said blades, said teeth being curved transversely from their base portions to present the tips thereof laterally relative to said blades.

2,156,422

APPARATUS FOR CARRYING OUT REACTIONS WITH WIRE GAUZE CATALYSTS

Otto Baader, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application September 8, 1937, Serial No. 162,953
In Germany January 30, 1936
3 Claims. (Cl. 23—288)



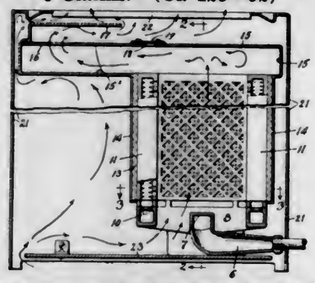
1. Apparatus for carrying out catalytic reactions comprising catalytically active metal wire gauze arranged transverse to the direction of flow of the reactants, supports for said catalytically active metal wire gauze and an automatically acting tension device to maintain said supports in a tightly stretched condition during operation, the catalytically active metal wire gauze resting loosely against the supports and being subjected to none of the tension imparted to said supports.

2,156,423

GAS HEATER

John O. Bailey, Los Angeles, Calif.

Application March 10, 1938, Serial No. 195,027
6 Claims. (Cl. 126—92)



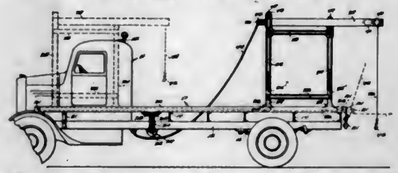
1. A gas heater including a housing having means for air to pass upwardly therethrough, a flue structure of refractory radiant material to form a hollow wall for said flue structure with its inner faces open to the interior of said flue structure, a gas burner formed to underlie the open wall and having gas jet openings upwardly in said hollow wall structure, whereby to heat the inner faces of said double wall structure and create an updraft of heat and products of combustion through the central part of said flue structure, a drum structure over said flue structure to receive said heat current therefrom, said drum structure having lateral extension to form a circuitous passageway for said heat currents from said flue structure upwardly through said housing, said drum structure heating the air passing upwardly through said housing outside of said drum structure.

2,156,424

SELF-LOADING TRUCK

Samuel G. Barnard, Seattle, Wash.

Application November 10, 1936, Serial No. 110,087
15 Claims. (Cl. 214—65)



1. In combination with an automotive truck providing a driver's cab and a loading platform to the rear of the cab, a carriage supported for movement longitudinally of the truck from the extreme forward limit of the cab to the extreme rear limit of the platform, said carriage being formed to have the rear end thereof clear the platform in the forward position of the carriage, and load-hoisting means supported by the carriage to permit travel of the same longitudinally with the carriage.

2,156,425

REMOVABLE COLOSTOMY POCKET AND RETAINING BELT

Emory N. Bowman, Rochester, Minn.

Application November 16, 1936, Serial No. 110,950
2 Claims. (Cl. 128—283)



1. A colostomy pocket comprising a marginal portion adapted to contact the body about the colostomy opening, a depending pouch portion connected to said marginal portion, said pouch portion comprising a pair of parallel walls connected by an edge wall, said edge wall being thicker than said inner and outer walls to prevent collapse of said pouch portion.

2,156,426

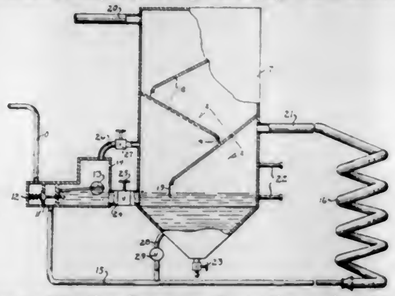
EQUALIZING LOW PRESSURE REFRIGERATING SYSTEMS

Lloyd Brown and Glenn B. Shaffer, Des Moines, Iowa

Application November 24, 1937, Serial No. 176,216
5 Claims. (Cl. 62—126)

1. In a device of the class described, an accumulator tank, a plurality of baffle elements in said tank, a suction line in the upper end of said tank, an inlet in said accumulator tank separated from said suction line by said baffles, an expansion coil having its upper end in communication with said inlet, a float controlled valve chamber in communication with the inside of said accumulator tank, a pressure line in communication with one side of said float control valve

chamber, a second pressure line having one end in communication with the other side of said float controlled valve chamber and its other end in communication with a lower portion of said expansion coil, a gravity flow pipe in communi-



cation with the lower end portion of said accumulator tank and said second mentioned pressure pipe and a check valve in said gravity flow pipe permitting flow from the tank to said second mentioned pressure line.

2,156,427

METHOD OF ELECTRODEPOSITING TIN

Jehu P. Cooper, Woodbridge, and Donald Willis Light, Perth Amboy, N. J., assignors to International Smelting and Refining Company, Perth Amboy, N. J., a corporation of Montana

No Drawing. Application January 11, 1937, Serial No. 120,036

17 Claims. (Cl. 204—17)

1. In the electrodeposition of tin, the improvement which comprises obtaining electrolytically deposited tin of fine crystalline texture and substantially free of growths or "trees" by subjecting an anode containing tin to electrolysis in an aqueous electrolyte comprising a tar acid, pyroligneous acid, and a mineral acid.

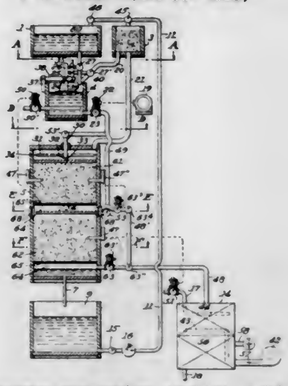
2,156,428

VINEGAR GENERATOR SYSTEM

Lewis S. Elmer, Baltimore, Md.

Application January 14, 1937, Serial No. 120,605

5 Claims. (Cl. 99—245)



1. A vinegar generator system, which comprises in combination, a generator, a means for fluid course for the passage by gravity of vinegar-mix from an elevated reservoir through the generator for its conversion into vinegar and thence into a storage reservoir, said fluid course being provided with a measuring vessel for the mix, said vessel having a vertically adjustable float, said float being suitably connected for actuation of the cock for the admission of mix from the reservoir, a discharge duct for the vessel being provided with an electrically actuatable valve, an electric circuit to control the electrically actuatable valve, a suitable clock for the control of the electric circuit, whereby the volume of mix flowing into the generator may be regulated automatically and whereby the same may be adjusted manually.

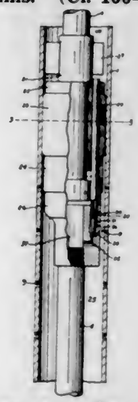
2,156,429

BOTTOM HOLE CONTROL CHOKE

Henry Udell Garrett, Tyler, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware

Application April 26, 1937, Serial No. 138,926

11 Claims. (Cl. 166—2)



1. In combination, a casing perforated adjacent a gas stratum, a flow line, an upper packer and a lower packer carried by said flow line, means whereby said lower packer may be set below the perforations and the upper packer above the said perforations, forming a pressure chamber between said packers, and manually controlled means to govern the introduction of the trapped gas in the pressure chamber into the oil in the flow line.

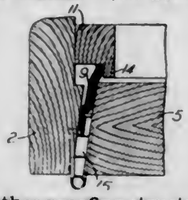
2,156,430

WEATHERPROOFING STRUCTURE FOR DOORS

David H. Harnly, Chicago, Ill.; Willard R. Matheny administrator of said David H. Harnly, deceased

Application April 12, 1937, Serial No. 136,248

3 Claims. (Cl. 20—69)



2. In a weather proofing structure for doorways including a frame member having an elongate associated member with a lip portion inwardly spaced from the adjacent surface of the frame, an initially flat strip of resilient material arranged to have one of its edges disposed under the lip portion of said member, and means for securing the other edge margin against the adjacent inner surface of the frame, said means being arranged to cause deflection of the unsecured portion of the strip towards said lip, engagement of the deflected portion with the lip acting to impart a transverse curvature to said strip.

2,156,431

COMPOSITION OF MATTER AND METHOD OF MAKING THE SAME

Joseph N. Kuzmick, Passaic, N. J., assignor, by mesne assignments, to Irvington Varnish & Insulator Co., Irvington, N. J., a corporation of New Jersey

No Drawing. Application June 11, 1937, Serial No. 147,676

5 Claims. (Cl. 260—46)

1. The method which comprises reacting sulphuric acid polymerized cashew nut shell liquid which is in a flowable state with hexamethylenetetramine to a rubbery millable state.

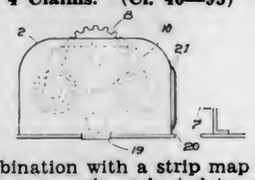
2,156,432

AUTOMOBILE ACCESSORY

Charles A. McDowell and Labanna J. Smith, Oil City, Pa.

Application January 18, 1938, Serial No. 185,505

4 Claims. (Cl. 40—95)



1. In combination with a strip map advancing means, a lamp, a casing adapted to receive said means, said casing having downwardly extending side and end members and a top member, one of said end members having a housing extending therefrom, said housing adapted to overlay and conceal the base of said lamp, said top member having therein an elongated window opening extending parallel, adjacent to and substantially the width of one edge of said top member, said casing also having a card pocket consisting of struck-out tabs, said tabs being struck outwardly around and so as to form the three sides of said card pocket, the fourth side of said pocket being open for the reception of an advertising card.

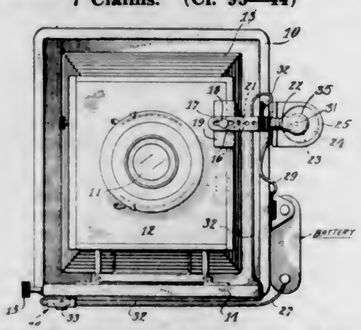
2,156,433

CAMERA FOCUSING DEVICE

Samuel Mendelsohn, Brooklyn, and Leon Hartman, New York, N. Y.

Application November 25, 1936, Serial No. 112,636

7 Claims. (Cl. 95—44)



1. A focus indicating device for a camera having a lens movable relative to a holder for a photographically sensitive element, comprising a light source in fixed relation to and movable with said lens and a curved surface reflector mounted on said holder for reflecting light rays past said light source to project an image of said light source on an object.

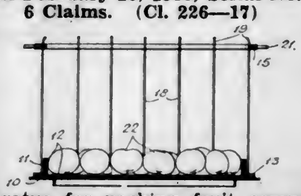
2,156,434

METHOD AND APPARATUS FOR PACKING FRUIT

Harry A. S. Read, Jr., Albion, N. Y.

Application February 16, 1938, Serial No. 190,758

6 Claims. (Cl. 226—17)



1. Apparatus for packing fruit comprising a cage adapted to be mounted upon a facing plate, said cage comprising a body, including a base frame engageable with said plate, standards carried by said base frame, a vertically movable container-supporting frame guided by said standards, and a plurality of fruit-supporting elements extending between said frames.

2,156,435

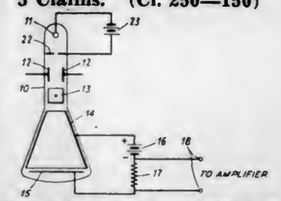
CATHODE RAY TUBE

Fritz Schröter and Max Knoll, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 19, 1936, Serial No. 106,301

In Germany October 3, 1935

5 Claims. (Cl. 250—150)



1. A cathode ray tube comprising an envelope, means for producing a focused beam of electrons within the envelope, means for deflecting the produced focused beam of electrons, a planar electrode of predetermined specific electron emissivity, said electrode having isolated minute recessed portions forming a half-tone picture, the areas in the plane of the surface of the electrode of said recessed portions corresponding to the density of elemental areas of the half-tone, and means to collect secondary electrons emitted from the unrecessed and recessed portions of the electrode under the impact of the deflected focused beam.

2,156,436

OPERATING MECHANISM FOR SOOT BLOWERS

John William Leslie Simpson, Littleover, Derby, England, assignor to Hopkinsons Limited, Huddersfield, England

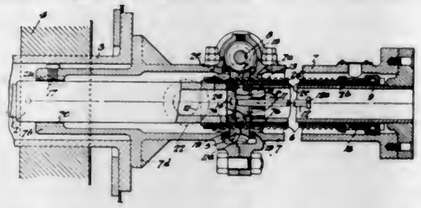
Application January 14, 1937, Serial No. 120,517

In Great Britain January 21, 1936

2 Claims. (Cl. 122—392)

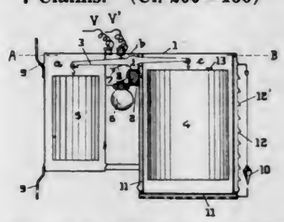
1. In a soot blower in which a blower tube is

advanced and retracted relatively to a housing, operating mechanism comprising a stationary housing, a blower tube and a tubular threaded member in said housing, connected together for sliding movement in unison in the housing, said threaded member being loose about said blower tube, thrust bearings between the ends of said threaded member and abutments on the blower



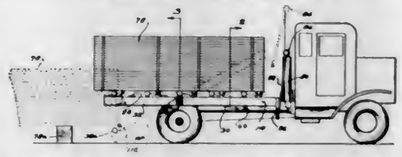
tube, a stationary pressure fluid supply conduit extending into said blower tube, packing between the blower tube and said conduit, a valve seating at the front end of said conduit and an opposed seating within the blower tube, an axially slidable valve between said seatings, a rotary driving member inside the housing having driving connection with said threaded member to advance and retract the blower tube.

2,156,437
FIRE ALARM
Tadeusz Ślusarz, Warsaw, Poland
Application January 14, 1937, Serial No. 120,463
In Germany November 19, 1936
7 Claims. (Cl. 200—136)



1. In a fire alarm having a normally balanced beam, a hollow container filled with air suspended from one end of said beam and having walls which are rapid and excellent conductors of heat, means connected with said beam for balancing the same, and means connected with said beam for closing an electrical circuit when said beam is thrown out of balance due to a change in the buoyancy of said container resulting from an abnormally quick rise in temperature of the air surrounding said container.

2,156,438
MEANS TO LOAD VEHICLES
Herbert F. Suverkrup, San Bernardino, Calif.
Application April 27, 1937, Serial No. 139,168
2 Claims. (Cl. 214—84)



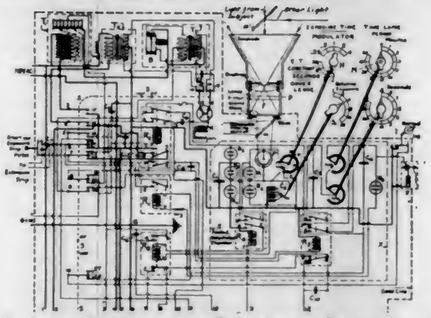
1. A motor vehicle to carry freight, said vehicle including a chassis, a power source, a cradle pivotally mounted in said chassis, a plurality of rollers mounted upon said cradle, one of said rollers being power driven by said power source, the others of said rollers being in train with said power driven roller, means to oscillate said cradle, said oscillating means being a hydraulic lift, and valves to control application of fluid pressure to said lift, certain of said valves being manually operated and certain others of said valves being adapted to be actuated by the freight to be carried on said vehicle.

2,156,439
ALUMINUM DISK SUITABLE FOR USE IN MANUFACTURING CIRCULAR ARTICLES
Kenjiro Takeda, Tosaboridori, Nishiku, Osaka, Japan
Application March 5, 1937, Serial No. 129,285
In Japan October 10, 1936
1 Claim. (Cl. 29—148)



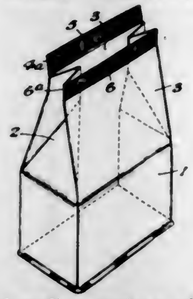
An aluminum disk suitable for use in manufacturing a circular article wherein the disk is so constructed as to comprise an inner circular zone of hard structure and an outer annular zone of soft structure integrally formed with the circular zone at the periphery of the latter, the inner circular zone being slightly concaved towards the centre when the outer annular zone is annealed before the disk is placed upon a shaping mold or dies for shaping it to the desired form.

2,156,440
COMBINATION TIME LAPSE AND PHOTO-ELECTRIC EXPOSURE CONTROL MECHANISM
Clinton P. Veber, Highland Park, N. J., assignor to Endowment Foundation, New Brunswick, N. J., a corporation of New Jersey
Application August 18, 1937, Serial No. 159,704
48 Claims. (Cl. 95—10)



1. A combination time lapse and photo-electric exposure control mechanism for taking pictures with a camera, including means for obtaining and controlling the time lapse period within any desirable range, means for setting instantly and at any time and controlling an exposure period within any desirable range, and photo-electric means for integrating light reflected from the subject toward the camera so that the exposure time is a function of the light intensity on the subject during the exposure period, and means for utilizing said integrated light to control the operation of at least the camera shutter to take at least one picture for each time lapse period.

2,156,441
CARTON AND THE SEALING THEREOF
Victor Hugo Watson and Norman Victor Watson, Leeds, England
Application January 3, 1938, Serial No. 183,099
In Great Britain December 14, 1937
3 Claims. (Cl. 93—6)

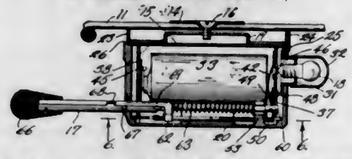


1. Method of sealing cartons of the type impregnated with wax proofing and having a pleated, tapered or like upper part affording opposed substantially parallel mouth edges pressed towards each other, consisting in forming on one side of the mouth of the carton an integral narrow flap like extension, scratching or roughening the inner surface of said flap and the area of carton to be overlapped by said flap, to form fibrous like tissues along their full length, folding said flap over the edge of the other side of the mouth of the carton, and passing the mouth end of the carton between pressing members to intimately intermingle the fibrous like tissues of the overlapping parts and simultaneously heating the carton at said over-lapping parts to soften the wax of the overlapping parts to fuse it into the intermingled fibrous like tissues.

2,156,442
SOLUTION FOR DYEING CAST PHENOLIC ARTICLES
Robert O. Wood, Montclair, N. J., assignor to Dipol Process Company, Rochester, N. Y., a partnership composed of Rudolph Siebert, Harry Newman, and Robert O. Wood
No Drawing. Application November 20, 1937, Serial No. 175,697
3 Claims. (Cl. 8—4)

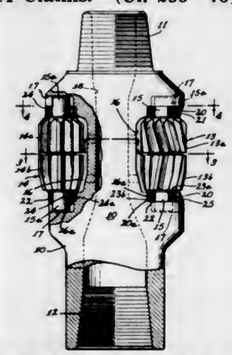
1. A solution for dyeing cast phenolic articles including water, a spirit soluble basic dye, a dye solvent consisting of glycol and glycol ether derived from ethylene, and an alkaline agent consisting of tri sodium phosphate and di sodium phosphate.

2,156,443
ILLUMINATING DEVICE
John S. Zook, Madison, Wis., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois
Application December 19, 1936, Serial No. 116,739
5 Claims. (Cl. 240—4)



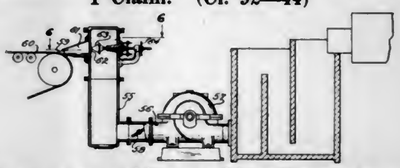
2. In an illuminating device for refrigerators and the like, an open sided casing, a cover for said casing, said casing being slidable lengthwise into and out of engagement with said cover, means for clamping said cover to a shelf of said refrigerator, an incandescent lamp mounted on said casing, a battery in said casing, a switch in said casing, said switch comprising a reciprocating member adapted to reciprocate substantially at right angles to the forward side of said casing and having an operating end portion exposed exteriorly of said side of said casing, said casing being removable forwardly from said cover, and means for preventing said casing from moving rearwardly out of engagement with said cover.

2,156,444
REAMER
John A. Zublin, Los Angeles, Calif.
Application August 29, 1938, Serial No. 227,278
14 Claims. (Cl. 255—73)



1. A reamer including a shank provided with a circumferential groove, roller cutter means within said groove, a bearing pin on which said cutter means is mounted, a plurality of plates to which said pin is fixed, and means for attaching said plates to said shank.

2,156,445
PAPER MAKING APPARATUS
Burke M. Baxter, Detroit, Mich.
Application June 3, 1936, Serial No. 83,238
1 Claim. (Cl. 92—44)



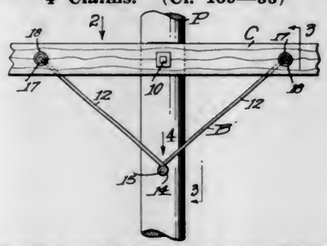
In a paper making machine, the combination of a wire, a nozzle elongated transversely of the wire for supplying pulp thereto, said nozzle being divided interiorly thereof into a plurality of contiguous passages, and valves individual to said passages for controlling the flow of pulp therethrough.

2,156,446
PRODUCTION OF AZO DYESTUFFS
Bernd v. Bock, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application September 13, 1935, Serial No. 40,407. In Germany September 22, 1934
8 Claims. (Cl. 260—205)

1. The azo dyestuffs prepared from diazotized

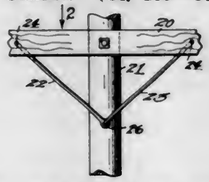
1-amino-6-cyano-2,4-dinitrobenzene and a coupling component selected from the group consisting of N-hydroxyethyl-N-normal-butyl-meta-toluidine, ethyl-ω-cyanethylaniline and N-dihydroxyethyl-meta-toluidine.

2,156,447
DOUBLE CROSS-ARM BRACE
Clyde A. Booker, Lexington, and Andrew E. Hill, Fitchburg, Mass.
Application November 8, 1937, Serial No. 173,328
4 Claims. (Cl. 189—33)



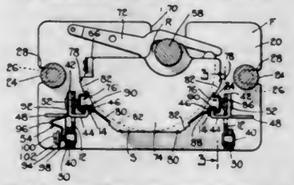
1. A double cross-arm brace comprising a single piece of metal rod, said brace having two brace arms connected by an integral bolt-receiving loop, and said brace arms having integral offset end portions extending into spaced openings in said cross-arm.

2,156,448
CROSS-ARM BRACE
Clyde A. Booker, Lexington, and Andrew E. Hill, Fitchburg, Mass.
Application December 9, 1937, Serial No. 178,982
2 Claims. (Cl. 189—33)



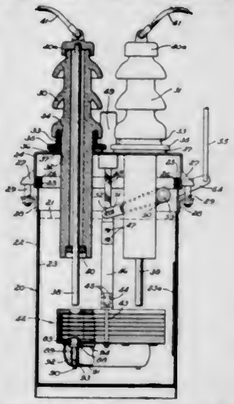
1. A double cross arm brace comprising one brace member having a laterally offset securing portion at each end, and a second brace member having a laterally offset securing portion at one end and having an eye at the other end through which one offset portion of said first member may be inserted and thereafter secured in a supporting structure.

2,156,449
VARIABLE CONDENSER
Samuel Cohen, Brooklyn, N. Y.
Application June 13, 1935, Serial No. 26,379
5 Claims. (Cl. 175—41.5)



1. A variable condenser comprising a frame, a rotor mounted therein, a stator including stator plates and outwardly channeled spacer straps holding the same in spaced parallel relation, a wall of said channels being indented upwardly to form solder pockets, metallic stator supporting fingers insulatedly mounted on said condenser frame and projecting inwardly to points beneath the solder pockets and there turned upwardly into said solder pockets, the union between the supporting fingers and the spacer straps being made by solder received in said solder pockets, thereby providing a strain free stator mounting.

2,156,450
APPARATUS FOR INTERRUPTING AN ELECTRIC CIRCUIT
Fred H. Cole, Glendale, Calif., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application June 7, 1937, Serial No. 146,786
18 Claims. (Cl. 200—150)



1. A circuit breaker having in combination: an arc-quenching member of insulating material containing a dielectric liquid; means for forming a plurality of arcs in said arc-quenching member in the circuit to be interrupted; a plurality of passages in the arc-quenching member leading from the path of one of said arcs to the path of another of said arcs whereby pressure of gas generated by the first arc will cause blasts of liquid to be directed across the path of the second arc; and pressure-equalizing openings intermediate the two arcs interconnecting at least some of said passages.

2,156,451
CHROMIUM HYDROXIDE GREEN
Albert Grasshoff, Hanover, and Wilhelm König, Stuttgart, Germany, assignors to G. Siegle & Co., G. m. b. H., Stuttgart, Germany
No Drawing. Application July 29, 1936, Serial No. 93,228. In Germany August 2, 1935
18 Claims. (Cl. 134—58)

1. The herein described process for the manufacture of Guignet's green, which process consists in heating alkali dichromate and boric acid in the presence of a reducing agent selected from the group consisting of carbohydrates, sulfur and reducing sulfur compounds.

2,156,452
TRAWLING SIGNAL
Clarence L. Guyman, Great Neck, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine
Application November 23, 1935, Serial No. 51,198
23 Claims. (Cl. 43—9)

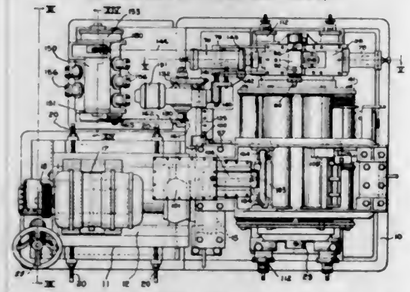
1. In a trawling net, a tapered body portion, a cod-end communicating therewith, and means carried by the cod-end to produce a signal when the cod-end has accumulated a predetermined quantity of fish.

16. The method of trawling which comprises towing a trawling net behind a trawler, causing signals to be propagated when said net is filled to



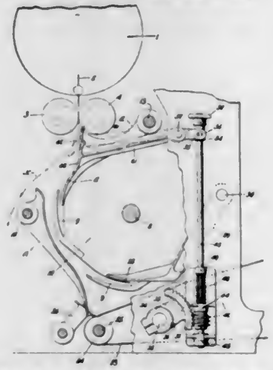
a predetermined point, and receiving said signals on said trawler.

2,156,453
GRINDING MACHINE
Alfred E. Hamilton, Pittsburgh, and Laszlo M. Stempel, Coraopolis, Pa.
Application July 6, 1936, Serial No. 88,952
Renewed August 27, 1938
15 Claims. (Cl. 51—122)



1. A grinding apparatus comprising a rotatable grinding wheel, work holders, a carrier movably supporting said holders and rotatable to bring the work holders successively into operative position with respect to the grinding wheel, means for rotating the carrier intermittently, means operative in predetermined relation to movement of the carrier for shifting each work holder longitudinally of the carrier while such holder is in grinding position and while the carrier is stationary, and means operated by said movement of the work holder for controlling said intermittent movement of the carrier.

2,156,454
ROTARY DELIVERY MECHANISM
Charles Alonzo Harless, Oak Park, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application April 20, 1936, Serial No. 75,394
17 Claims. (Cl. 271—80)

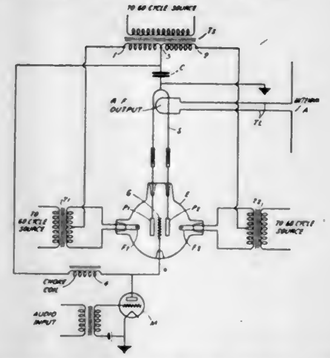


1. A newspaper delivery mechanism including in combination folding-off rollers, a rotary fly, a stripper for the fly, a delivery belt, a resiliently mounted roller supporting the belt opposite the stripper, the roller being adapted to yield on the occurrence of a choke at the stripper, and means operated by said yielding action of the roller for preventing delivery of papers from the folding-off rollers into the fly.

2,156,455
MANUFACTURE OF FELT
Johannes Kleine, Dessau, and Walter Brennecke, Dormagen, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application May 23, 1936, Serial No. 81,540. In Germany May 25, 1935
1 Claim. (Cl. 28—1)

A soft pliable felt, resembling a felt consisting entirely of wool, but having a different affinity for acid wool dyestuffs and a substantially improved internal strength compared with a felt comprising wool and cellulose hydrate fibers, said felt consisting of a mixture of wool and at most the same quantity of thermoplastic fibers from a polymerization product of organic unsaturated compounds selected from the group consisting of polyvinylesters, polyvinylethers and mixtures of these compounds, chlorinated rubber, and polymerization products of mixtures of vinyl compounds with dienes.

2,156,456
OSCILLATION GENERATION SYSTEM
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 19, 1935, Serial No. 7,160
10 Claims. (Cl. 250—17)



1. An oscillation generation system comprising within a single envelope a pair of spaced plates having their inner surfaces coated with an electron emissive material, a filament individual to each plate for heating same, a grid located between said plates, an external, adjustable, U-shaped conductor connecting said plates together, a first transformer having its primary connected to a source of alternating energy and its secondary connected to the legs of one of said filaments for heating same, a second transformer similarly connected to said other filament, a third transformer having its primary winding also connected to a source of alternating energy but the respective terminals of its secondary winding connected to the midpoints of the secondary windings of said first and second trans-

formers, a conductive connection from the midpoint of the secondary winding of said third transformer to said grid, and a capacitive coupling between said last connection and the center of said U-shaped conductor, a connection from the center of said U-shaped conductor to ground, and an antenna inductively coupled to said U-shaped conductor.

2,156,457

MULTICELLULAR GLASS AND METHOD FOR ITS MANUFACTURE

Bernard Long, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

No Drawing. Application June 2, 1936, Serial No. 83,077. In France June 5, 1935

15 Claims. (Cl. 49—79)

1. A method of manufacturing multicellular glass comprising incorporating in a sodo calcic glass batch a powder of a reducing metal and at least one metallic oxide having the property of being dissociated under the action of the temperature, fusing said glass batch and subsequently maintaining the resulting glass material close to its softening temperature so as to cause said glass material to swell and form a sponge like or multicellular structure.

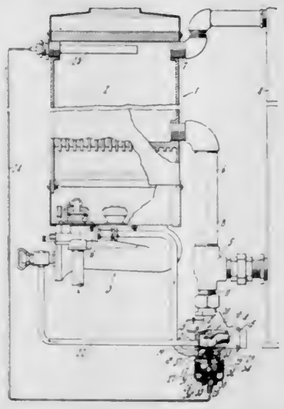
2,156,458

TEMPERATURE CONTROL FOR WATER HEATERS

Herbert J. Long, Springfield, Mass., assignor to American Bosch Corporation, a corporation of New York

Application July 17, 1937, Serial No. 154,125

6 Claims. (Cl. 236—20)



1. A liquid heater comprising a heating unit, a burner therefor, a system through which liquid circulates by convection including a storage tank and connections for the supply of liquid from the lower portion of said tank to said unit and for the discharge of heated liquid from said unit to the upper portion of said tank, a graduating thermostat subject to the temperature of the liquid at approximately the hottest temperature of the system acting to reduce the supply of gas to the burner as the temperature increases without reducing said supply below that required to maintain a flame at the burner, and a snap action thermostat subject to the temperature of the liquid at approximately the lowest temperature of the system to abruptly cut off the flow of gas to the burner at a predetermined temperature.

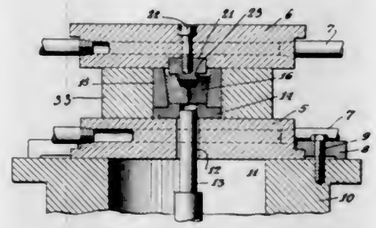
2,156,459

MOLD

John J. Mucher, Brooklyn, N. Y.

Application June 25, 1936, Serial No. 87,147

1 Claim. (Cl. 18—42)



In combination, a bed, a head projectible with respect thereto, a confining element positioned upon said head and presenting a longitudinally extending opening, the side walls of which project substantially vertically from said bed, a pair of sections arranged within said opening and having downwardly and inwardly inclined faces, a further pair of sections having outwardly and upwardly inclined outer faces in contact with the faces of said first named sections, said further sections being formed with recesses providing in aggregate a molding cavity, all of said sections presenting longitudinally extending portions, a longitudinally extending plunger affixed to said head and disposable within said cavity, a plate formed with an opening in line with the base of said further sections, said plate supporting all of said sections and being in turn supported upon said bed, means projectible through said plate opening and common to said further sections to engage the same and expel them from between said first named sections to simultaneously permit a separation of said further sections and release of an article disposed within said mold cavity, said projectible means being disposed substantially in line with the adjacent edges of said further sections, said further sections providing a parallel walled groove extending in line with and towards said projectible means, and a notched strip disposed within said groove with its notches extending in the direction of said molding cavity.

2,156,460

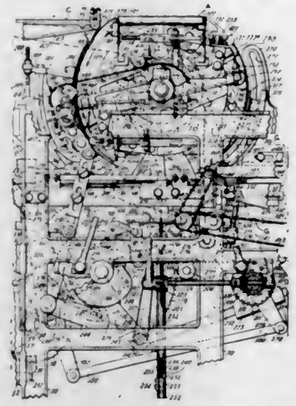
SOFT-PACKAGE WRAPPING MACHINE

Robert H. Plass, Upper Montclair, N. J., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application May 28, 1935, Serial No. 23,836

46 Claims. (Cl. 93—2)

1. In a wrapping machine, the combination with a traveling carrier having a plurality of pockets, of a device for inserting articles into said pockets successively, mechanism for feeding a web of wrapping material across each pocket, means for severing a wrapper blank from the web, means for enfolding the article in the severed wrapper blank with the latter projecting beyond the ends of the article, means for adhesively uniting projecting portions of the wrapper, means for conveying the enfolded packages past said uniting means, and means for incapacitating said uniting means when there is no package in said conveying means.



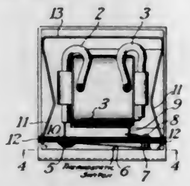
2,156,461

TRANSFORMER

Arthur E. Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York

Application August 14, 1937, Serial No. 159,126

3 Claims. (Cl. 175—361)



1. A transformer including a housing, a generally U-shaped retaining plate positioned edgewise within the housing, a support of insulating material arranged between the opposite ends of said retaining plate, a thermostatic switch carried by said support, and a primary circuit connected to the terminals of said thermostatic switch.

2,156,462

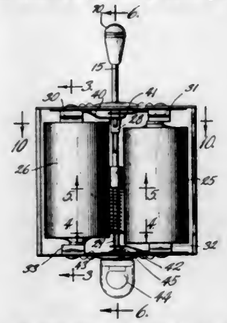
ILLUMINATING DEVICE

Walter B. Schulte, Madison, Wis., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois

Application August 8, 1936, Serial No. 94,897

6 Claims. (Cl. 240—4)

5. An illuminating device for refrigerators and the like comprising a casing, means for clamping said casing to a shelf of said refrigerator, an incandescent lamp mounted upon said casing, a battery, electrical conductors, switching means in said casing and in electrical connection with said lamp adapted to render said lamp operative and inoperative, said switching means comprising a reciprocal plunger in said casing having an end thereof projecting exteriorly of said casing, spring means for constantly urging said plunger toward the position thereof which renders said lamp inoperative, said reciprocable plunger being also rotatable, and locking means responsive to a rotation of said plunger into a locked rotated position thereof, to lock said plunger against longitudinal movement toward the position in which it renders said lamp operative.



2,156,463

ILLUMINATING DEVICE

Walter B. Schulte, Madison, Wis., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois

Application December 24, 1936, Serial No. 117,449

13 Claims. (Cl. 240—4)



1. An illuminating device for refrigerators and the like comprising an elongated casing, a battery in said casing, an incandescent lamp mounted adjacent one end of said casing, a switch mounted at the opposite end of said casing, said switch comprising cooperating stationary and movable switch members and a switch operating member, said operating member projecting exteriorly of said casing, and a conductive spring member in said casing, said spring member being under compression between said battery and said movable switch member for conducting electric current therebetween and for constantly urging said battery toward said lamp and said movable switch member and said operating member toward the operative position thereof.

2,156,464

PRODUCTION OF POLYMETHIN DYESTUFFS

Otto Fritz Schulz, Berlin-Wilmersdorf, Germany

No Drawing. Application February 26, 1936, Serial No. 65,866. In Germany March 22, 1935

3 Claims. (Cl. 260—240)

2. As new sensitizing and stabilizing agents for silver halide emulsions, substituted carbocyanine salts having a thioalkyl as meso-substituent.

2,156,465

SET OF CONTACT SPRINGS FOR ELECTRICAL SWITCHING APPARATUS

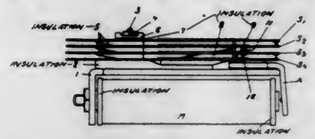
Sten Daniel Vigren and Sven Gustaf Filip Blomquist, Stockholm, Sweden

Application March 10, 1936, Serial No. 68,014

6 Claims. (Cl. 200—166)

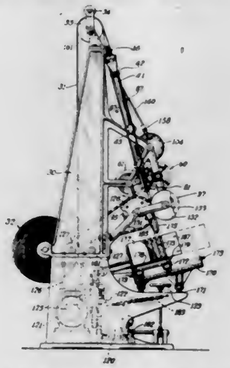
1. As a new article of manufacture, a contact spring for electromagnetic electrical switching apparatus, said contact spring comprising a metal leaf-spring, the latter being provided with a

permanent transverse bend dividing the said leaf-spring in two parts, said two parts being inclined with respect to each other for subsequent pretensioning of the said leaf spring, one of said parts being provided with contact means and the



other part comprising fastening means, said leaf spring being relatively weak in a zone adjacent the said bend, in order to facilitate hinge-like movements of the spring, for the purposes described.

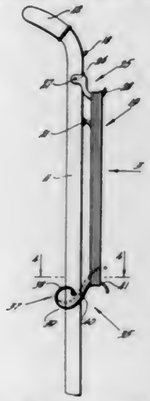
2,156,466
METHOD AND APPARATUS FOR MAKING PACKAGES
Clarence W. Vogt, New York, N. Y., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 27, 1935, Serial No. 51,791
Renewed October 13, 1938
27 Claims. (Cl. 93—3)



1. A packaging machine including a hollow mandrel, means for causing a tubular enwrapment to be drawn along said mandrel with continuous motion, apparatus including extruding means and cutting-off means for successively introducing separate charges of plastic material from the end of the mandrel into the tubular enwrapment, and mechanism for closing said tubular enwrapment behind each charge and before the next charge comes from the mandrel.

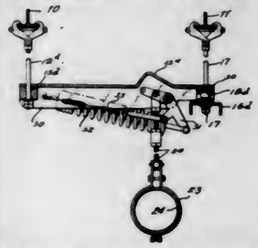
2,156,467
RESILIENT CORD RELEASE
John K. Walter, Maywood, Calif.
Application March 23, 1938, Serial No. 197,724
4 Claims. (Cl. 242—85)

1. In a device as described, the combination of a rod-like supporting element, having first and second perforations therethrough, a resilient hook device formed of a single piece of wire and having two inturned prongs at the end fitting in the first perforations, a portion of the wire from the prongs having a spiral curve, attaching means extending through the second perforations retaining the spiral coil and the prongs in place on the said element, the portion beyond the spiral curve having a reverse curve and continuing in a hook-like bend and a connection section parallel to the prongs between the hook-like por-



tions, the spiral coil and reverse curve and hook-like portions being in the same plane.

2,156,468
SPRING DEVICE
Joseph Kaye Wood, Mount Vernon, N. Y., assignor to General Spring Corporation, New York, N. Y., a corporation of New York
Application May 22, 1936, Serial No. 81,186
6 Claims. (Cl. 248—54)

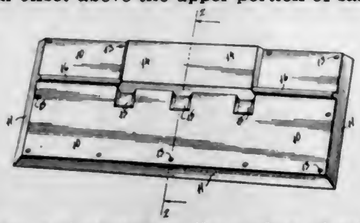


3. A support for high temperature piping which comprises three anchoring members spaced apart, two of which are spaced a distance greater than the horizontal movement of the part of the equipment which is to be supported, and the third is spaced from both along a line approximately perpendicular to the line between the first two, a span between said two anchoring members and having a bearing surface therebetween substantially parallel to the path of the supported part during thermal expansion of said equipment, a second span pivoted on the third anchoring member and having a portion borne on the bearing surface of the first span, and means for connecting the supported part to said second span and adapted to permit relative movement of said part radially to said span to accommodate departure of the arc of said span from the path of movement of said part.

2,156,469
PITCHER'S BOX
Alfred H. Boltz, Valrico, Fla.
Application March 5, 1938, Serial No. 194,030
6 Claims. (Cl. 273—25)

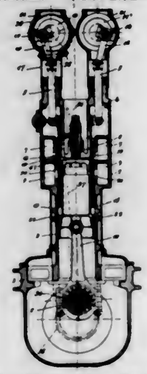
4. A pitcher's box comprising a slab-like base portion arranged for removable positioning with its upper surface coplanar with a ground surface,

a plate portion defined on and rising as an integral offset above the upper portion of said base



portion, and recesses in the surface of said base portion adjacent one margin of said plate portion.

2,156,470
DISTRIBUTION MECHANISM FOR MACHINES OF THE PISTON TYPE AND ESPECIALLY STEAM ENGINES
Jean Bugatti, Molsheim, France
Application July 15, 1936, Serial No. 90,816
In France September 16, 1935
14 Claims. (Cl. 121—129)



1. In an engine having a cylinder and a passage for admitting fluid to said cylinder, the combination of two reciprocable valves having corresponding inlet ports for controlling said passage; first driving means for reciprocating one of said valves at periodically varying speeds including a range of maximum speeds; and second driving means for reciprocating the second valve at periodically varying speeds including a range of maximum speeds; the first and second driving means being so arranged and timed that the corresponding inlet ports in the valves are in register while said valves move in opposite direction at speeds lying, for both valves, in their respective ranges of maximum speeds.

2,156,471
PERCUSSION FUSE
Paul Emile Joseph Denoix, Paris, France, assignor to Sageb, Société Anonyme de Gestion et d' Exploitation de Brevets, Fribourg, Switzerland, a corporation of Switzerland
Application March 29, 1938, Serial No. 198,761
In Luxemburg April 2, 1937
2 Claims. (Cl. 102—39)

1. A percussion fuse for aerial bombs, comprising fuse body, a stopper to close the upper end of said fuse body, a packing on the inside of the stopper, a tube adapted to slide endwise in said fuse body, a cross-piece in said tube, a clockwork movement for retarding the arming of the fuse after the release of the bomb, said clockwork movement comprising a spindle adapted to pivot in the fuse body, two firing elements, a screw connection joining one of the firing elements to said spindle, said cross-piece engaging said spindle to arrest it, means to arrest against rotation the firing member connected to the spindle, means to impart a rotation to said spindle, at least one locking element to lock said tube against movement, a bearing on said tube, a compression spring engaging by one end said bearing to urge the tube against said locking element, a rod adapted to slide in the fuse body, said rod being formed with opposite flats, a ring on said rod, a flange on said rod, said compression spring engaging by its other end said ring on the rod, said rod being formed with a neck and a



detachable auxiliary locking member to prevent the displacement of the rod up to the moment of release of the bomb, said auxiliary locking member being adapted to cooperate with the stopper to apply the flange of the rod against the packing when the fuse is in position for transport, and to effect the removal of said flange from the packing when the auxiliary locking member is shifted from its transport position, the compression spring being adapted, after detachment of the auxiliary locking member, to move said rod endwise to bring its neck opposite said locking element to enable it to withdraw into said neck so as to permit the tube to slide, and disengage from the spindle, which may thus be rotated and unscrew itself from the firing member connected thereto, which is finally freed, whereby the fuse is armed.

2,156,472
DEVICE FOR CONDUCTING THE THREAD IN WINDING MACHINES
Heinrich Dersen, Krefeld, Germany, assignor to Maschinenfabrik Carl Zangs A.-G. (Herm. Schroers Nachfl.), Krefeld, Germany
Application April 15, 1936, Serial No. 74,557
In Germany April 23, 1935
9 Claims. (Cl. 242—43)

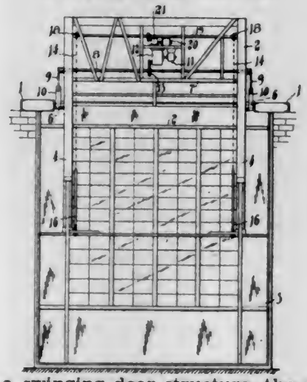
2. In a winding machine, in combination, means for supporting a spool during a winding operation, and mechanism for guiding a thread passing onto the spool, said mechanism including a revoluble cylinder having separate grooves formed therein for traversing the thread in opposite directions axially of the cylinder, one of said grooves having greater thread retaining capacity than the other, and means positioned adjacent the cylinder over which the thread passes on its way to the cylinder for urging the thread to move axially of the cylinder in a direction to follow

the groove of less thread retaining capacity, said means resisting but not preventing the thread



from following the groove of greater thread retaining capacity.

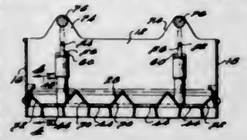
2,156,473
DOOR OPERATOR
Frederick William Hall, London, Ontario, Canada, assignor to Richards-Wilcox Canadian Company, Limited, London, Ontario, Canada
Application June 10, 1938, Serial No. 212,957
In Canada May 23, 1938
5 Claims. (Cl. 268—30)



1. In a swinging door structure, the combination of a doorway superstructure; a door pivoted thereon to swing on a horizontal axis; a lower door section slidably mounted to move up and down on the pivoted door part; a chain connected at opposite ends to the slidable door section; pulleys on the pivoted door part about which the chain passes; and a hoisting unit including a prime mover mounted on and completely supported by the pivoted door part and adapted to drive one of the pulleys to actuate the chain to move the slidable door section, the said unit serving as a counterbalance for the door structure.

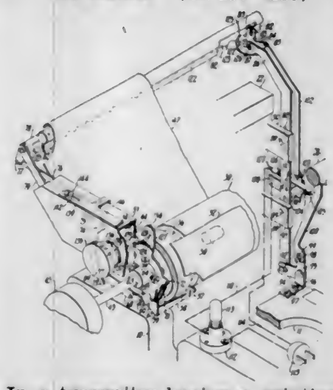
2,156,474
MORTAR DEPOSITING DEVICE
Earl H. Hart, Berkley, Mich.
Application March 18, 1937, Serial No. 131,589
11 Claims. (Cl. 72—128)

1. A mortar dispensing and depositing device comprising a receptacle for containing mortar therein having an opening of predetermined size through the bottom thereof, movable means normally closing said opening, and means mounting said last named means for up and down move-



ment from and toward said opening in a straight line to thereby dispense predetermined amounts of mortar from said receptacle.

2,156,475
TYPEWRITING MACHINE
William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application February 20, 1937, Serial No. 126,875
24 Claims. (Cl. 197—189)

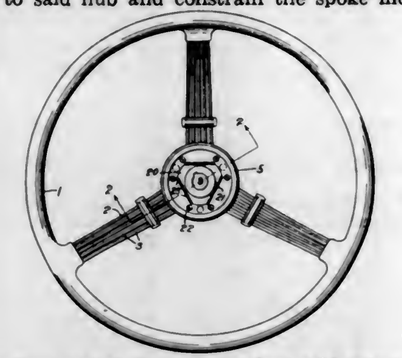


23. In a typewriter having a printing line, in combination, a main frame, a work sheet platen, a case shiftable platen support mounted in said frame for lateral travel, a sensing device mounted on said support and adapted to sense a certain position of advance of said sheet relatively to the printing line, an actuatable signal mounted on said main frame, and mechanical connections, conditioned by said sensing device at said certain position, to translate the lateral travel movements of said platen support into intermittent actuation of said signal, said connections including devices enabling said connections to function irrespective of the case shifts of said support.

2,156,476
TWO-PIECE HUB CONSTRUCTION
Harry A. Husted, St. Clair, Mich., assignor, by mesne assignments, to Thermo-Plastics, Incorporated, St. Clair, Mich., a corporation of Michigan
Application August 20, 1936, Serial No. 97,038
5 Claims. (Cl. 74—552)

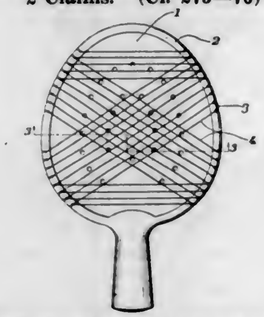
1. A steering wheel comprising a rim annulus, a plurality of groups of wire spoke members secured at their outer ends to said rim annulus, each wire spoke member having a head on its inner end, and a hub member comprising separable portions each having engaging faces, grooves in each of the engaging faces, said grooves individually embracing and gripping said wire spoke members, said portions having walls mutually and concurrently engaging each of said

heads to positively anchor each wire spoke member to said hub and constrain the spoke mem-



bers from radial dislocation when said separable portions are clamped and held together.

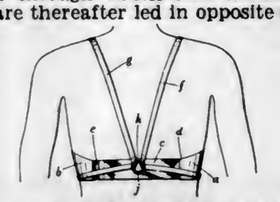
2,156,477
TABLE TENNIS RACKET
Anton M. Keller, Salzburg-Aigenglas, Austria
Application November 19, 1937, Serial No. 175,530
In Austria January 14, 1937
2 Claims. (Cl. 273—76)



1. A table tennis racket comprising a member having oppositely disposed surfaces each of which forms a substantially flat rigid striking face, raised edgings secured to the periphery of each face, a plurality of notches in the periphery of said face and edgings, and a plurality of rubber bands each of which engages a pair of notches, disposed across each face and edging of, and spaced by the thickness of said edging from the face of, said racket to form an elastic network capable of yieldably engaging the surface of a ball, whereby said ball can be struck by said face while said rubber bands engage the adjacent side surfaces of said ball to control the "cut" of said ball.

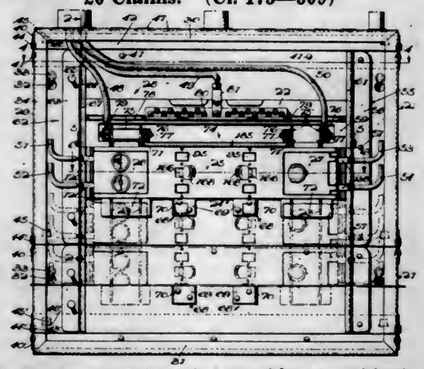
2,156,478
BUST SUPPORT
Vivian Fitch Kemp, London, England, assignor to Kempat Limited, London, England, a corporation of Great Britain and Northern Ireland
Application April 5, 1935, Serial No. 14,906
In Great Britain April 11, 1934
6 Claims. (Cl. 2—42)

1. A bust support having breast-supporting portions; connecting means between the outer lateral extremities of said breast-supporting portions; shoulder straps respectively secured at one end to said breast-supporting portions at points above each breast; a ring secured to said connecting means through which said shoulder straps pass and are thereafter led in opposite directions



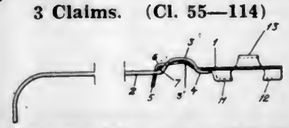
around the wearer's body and means for fixing the free ends of said shoulder straps at the front of the garment substantially as set forth.

2,156,479
PANEL BOARD
William P. McWhorter, Miami, Fla.
Application August 24, 1936, Serial No. 97,690
20 Claims. (Cl. 175—309)



1. In a panel board assembly, a cabinet, at least one panel board section removably mounted in said cabinet in a horizontally extending position, a pair of bus bars vertically disposed in said cabinet and extending above and below said panel board section, means carried by said panel board section for frictionally engaging and making electrical connection with said bus bars, a terminal block removably mounted in said cabinet above and supported on said panel board section and adapted to support the upper ends of said bus bars, and a block of insulating material for supporting the lower ends of said bus bars, said last named block extending below and having a detachable connection with said panel board section and being otherwise unconnected to said cabinet.

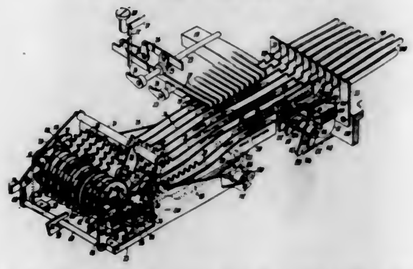
2,156,480
RAKE
Jonas Leander Owén, Edsbyn, Sweden
Application March 13, 1937, Serial No. 130,639. Renewed March 23, 1939. In Sweden February 8, 1937
3 Claims. (Cl. 55—114)



1. A rake comprising in combination a rake plate, having one transversal groove, said rake plate having a flange on the front, slots being arranged in a part of the flange and a part of the groove, holes being arranged behind the

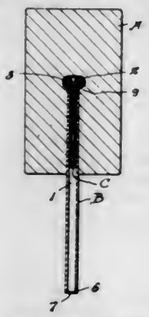
groove, tines engaging through the slots and the holes, said tines having a bent front portion and a curved part in the rear portion, said curved portion bearing tightly against the upper side of the unslotted part of the groove, a rod being arranged behind the flange for connecting the tines with said rake plate.

2,156,481
COMBINED TYPEWRITING AND COMPUTING MACHINE
Henry L. Pitman, Westfield, N. J., assignor, by mesne assignments, to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application January 28, 1933, Serial No. 654,057
6 Claims. (Cl. 235—60)



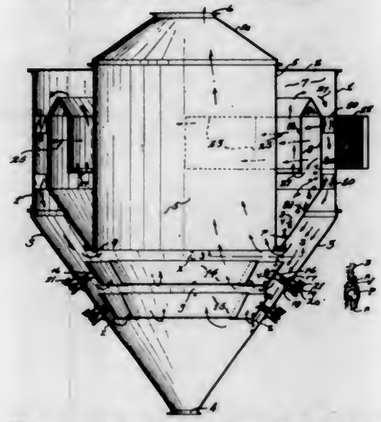
1. In a sterling computing machine having dial-actuating rack-bars, the combination with a pence-rack bar having settable digit-pins, said pence-rack bar movable eleven unit-spaces and a reciprocatory general operator having an advance stroke capable of moving said rack-bars a maximum of nine unit-spaces, of a lever on said general operator, means operatively connected to said lever to engage a set pin of said pence-bar, so that said pence-bar may be advanced by said general operator, and means effective to rock said lever during the advance of the general operator, and thereby move said pence-bar two extra unit-spaces.

2,156,482
CONFECTION AND NOVELTY TOY
John F. Robb, Cleveland Heights, Ohio
Application June 29, 1937, Serial No. 151,012
2 Claims. (Cl. 46—87)



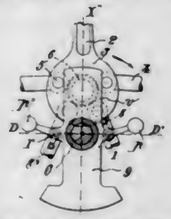
1. In a novelty amusement device, in combination, a handle member having a central hollow portion, and an inflatable device secured to one end of said handle member and forced within said hollow portion in deflated condition so that its outer side, which would be innermost when the inflatable device is inflated, lies against the inner wall of the hollow portion of the handle, the said handle member having an opening for the admission of air under pressure into said hollow portion for projecting said device from the said hollow portion and for inflation of said inflatable device.

2,156,483
METHOD AND APPARATUS FOR SEPARATING MATERIALS
Webster I. Sallee, Cleveland, Ohio
Application October 9, 1935, Serial No. 44,214
12 Claims. (Cl. 209—144)



2. The method of separating fine from coarse particles of pulverized material which comprises transporting the particles in a stream of air, decreasing the velocity of said stream of air along a portion of its path of travel for causing course particles to settle out from the stream, re-directing the air stream to direct it across the field of falling particles at a point remote from their point of separation, temporarily arresting and reducing the speed of fall of the coarse particles to dissipate localized air conditions resulting from the falling of the particles during passage of the separated coarse particles through the redirected air stream.

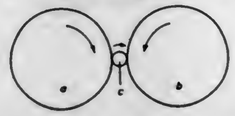
2,156,484
DEVICE FOR IMPARTING IMPULSES TO A SYSTEM
Raoul Roland Raymond Sarazin, Saint-Prix, France
Application October 22, 1937, Serial No. 170,504
In Luxemburg August 5, 1937
14 Claims. (Cl. 74—604)



1. A device for imparting periodical impulses to a rotary structure, which comprises, in combination, at least one pendular system eccentrically carried by said structure so as to rotate

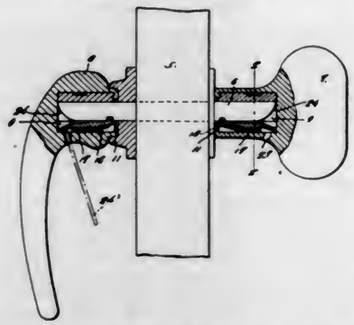
therewith, at the mean speed thereof, and means operative by the movement of said structure for keeping said pendular system in oscillation, with a median position substantially radially situated relatively to the axis of rotation of the rotary structure.

2,156,485
GRINDING CYLINDRICAL WORKPIECES
Conrad Thyssen, Aachen, Germany, assignor to Schumag Schumacher Metallwerke Aktiengesellschaft, Aachen, Germany
Application January 3, 1939, Serial No. 249,063
In Germany April 26, 1938
1 Claim. (Cl. 51—278)



A method of grinding cylindrical work pieces between two circumferentially acting grinding discs, comprising imparting to the work an independent rotary motion about and at the same time a feed motion in the direction of its longitudinal axis, passing the work thus operated between the two grinding discs while rotating these discs in opposite directions at different speeds, causing the rotation of the work to take place in the same direction as that of the slower moving disc and at such a speed as to produce a substantial compensation of the different cutting speeds of the two grinding discs due to their different circumferential speeds.

2,156,486
MOUNTING FOR DOORKNOBS OR HANDLES
Glenn E. Wertz, Rockford, Ill.
Application October 24, 1938, Serial No. 236,706
4 Claims. (Cl. 292—354)



1. In combination with a knob or handle having a chamber, a core mounted in said chamber against rotation and against withdrawal therefrom and having a bore provided with angularly related faces, a latch operating bar having angularly related faces and a beveled end to be received in the bore of the core and provided with a notch, said core having a slot communicating with the bore and opening outwardly through a side thereof, said core having notches in communication with the slot, a dog received in said slot and having a notch engaging end to engage in the notch of the bar, oppositely extending lugs formed on said dog and resting in said notches, and means for releasably securing the dog in the slot and acting as a tension means therefor.

2,156,487
VIBRATOR
Edward L. Barrett, La Grange, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application October 10, 1938, Serial No. 234,187
16 Claims. (Cl. 200—90)

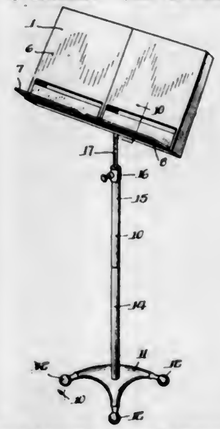


1. A vibrator embodying a stack of lamination parts including a reed, a pair of contact fingers on opposite sides thereof and electrical insulating laminations interposed between adjacent end portions thereof, said vibrator being characterized by the inclusion of a supporting frame for said stack made of dielectric material and having an integral projection thereon contacting both said reed and said contact fingers in said stack for locating the same in predetermined relation with respect to each other.

2,156,488
MANUFACTURE OF DEXTRINE IN A HEATED LIQUID MEDIUM
Harold E. Bode, Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 16, 1937, Serial No. 159,380
1 Claim. (Cl. 127—38)

Method of dextrinizing starch under completely anhydrous conditions which comprises vacuum drying starch to approximately zero moisture content, adsorbing a water-immiscible liquid into the starch in the absence of air, suspending the anhydrous starch thus produced in an oil, and heating the oil to a starch dextrinizing temperature.

2,156,489
PORTABLE MUSIC STAND
Dante Bonetti, Highwood, Ill.
Application May 1, 1936, Serial No. 77,376
6 Claims. (Cl. 45—121)



1. A portable music stand comprising a standard member and a rack, said rack comprising a

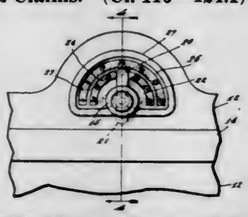
box-like member having front and back walls joined by side walls, said member being divided into a plurality of sections along a line intermediate of the side walls whereby to divide the member into two box-like sections, hinge means joining divided side wall sections of a side wall whereby the box-like sections are pivotal relatively to open position with the said side wall sections in flatwise, adjacent relationship, and a supporting member attachable to the standard and having forwardly extending arms, said arms being spaced to oppositely engage the said side wall sections in supporting relationship when the said side wall sections are in flatwise adjacent relationship whereby to retain the box-like members in open position while providing a support therefor.

2,156,490

DIAL

John E. Chambers, Shelbyville, Ind.

Application August 23, 1937, Serial No. 160,412
2 Claims. (Cl. 116—124.1)



1. In combination with a rotatable control member, a pair of diametrically opposite radial indicating hands rotatable with said control member, said hands being of different lengths, a dial plate disposed in rear of said hands, said dial plate being provided with two angularly co-extensive, arcuate scales, said scales being 180° in extent and being formed on radii corresponding respectively to the lengths of said hands, a cover glass for said dial and hands, and means supporting said cover glass, said means including an opaque escutcheon plate having a generally semicircular sight opening to expose said scales while masking the hand not within the limits thereof, said control member projecting forwardly through said escutcheon plate adjacent the straight edge of said sight opening and being there provided with a control knob.

2,156,491

METHOD OF PRODUCING STIFFENED YARN AND FABRIC

Claude H. Daniels, Greenwich, Conn.

No Drawing. Application March 2, 1937, Serial No. 128,648
7 Claims. (Cl. 57—157)

1. The method of making a stiff cord material which consists in forming filaments of organic derivatives of cellulose, twisting together several filaments to form a thread, spinning a plurality of threads to form a yarn, imparting stiffness to the yarn by treating the yarn with an organic solvent, applying a lacquer coating to the stiffened yarn and finally passing the yarn through a die to form a smooth surfaced stiff cord.

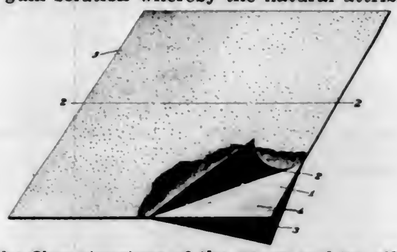
2,156,492

COATED ABRASIVE

John F. A. Davis, Hamilton, Mass.

Application November 8, 1937, Serial No. 173,443
3 Claims. (Cl. 51—185)

1. A combination coated abrasive having a backing composed of paper to which is bonded a fabric, and an abrasive material bonded to the face of said fabric, said paper being an unsized paper saturated with a water soluble penetrating gum solution whereby the natural attributes



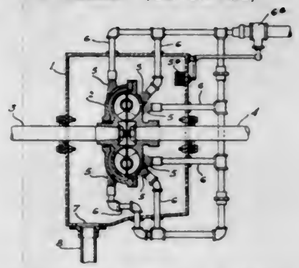
of the fibre structure of the paper and its affinity or fitness for receiving the bond by which the cloth or fabric is bonded to it are increased by the residual component of said solution without chemical change in said fibre structure.

2,156,493

WATER-COOLED COUPLING

Ernest L. Durrell, Detroit, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware

Application April 20, 1936, Serial No. 75,501
1 Claim. (Cl. 60—54)



In a hydraulic transmission, a hydraulic coupling having a rotary casing and a plurality of rotors therein with vanes positioned for reaction with a working liquid therein, said working fluid transmitting to said casing the heat produced by said reaction, a housing enclosing said coupling, a fluid-withdrawing conduit connected to said housing, a plurality of spray nozzles in said housing directed at said casing, a cooling fluid discharge conduit connected to said nozzles, a valve in said discharge conduit arranged to control the distribution of cooling fluid to said nozzles, a valve actuator connected to said valve, a thermostat within said enclosure adjacent said coupling casing and operatively responsive to the heat given off by said coupling casing, and mechanism operatively connecting said thermostat to said valve actuator whereby to control the distribution of cooling fluid to said hydraulic coupling by the temperature in the vicinity of the casing of said hydraulic coupling.

2,156,494

SCOURING MEANS

Alfred M. Goodloe, Roanoke, Va., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware

Application February 10, 1938, Serial No. 189,742
2 Claims. (Cl. 15—209)

1. An implement for the purposes set forth, comprising a substantially rigid flat faced backing member, a handle block separably superposed

on said backing member, a facing of metallic mesh fabric engaged over said backing member with its marginal portions inturned over and around the peripheral portions of said backing member, said handle block having raised gripping portions on its under side to cooperate with said backing member in gripping said marginal portions of said fabric to hold the same operatively assembled in facing relation to the latter, and means detachably securing said handle block and backing member in operative assembled relation to each other and to said fabric, said backing member consisting in material of comparatively soft character relative to said metallic mesh fabric facing to induce frictional resistance to creeping of the latter thereon.

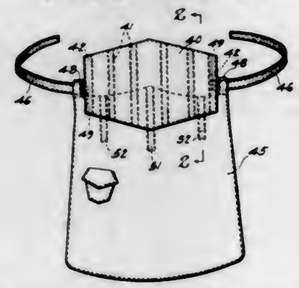


2,156,495

STAY-BIB BONNET APRON

Hettie M. Hall, Ocean Beach, Calif.

Application August 31, 1938, Serial No. 227,731
3 Claims. (Cl. 2—48)



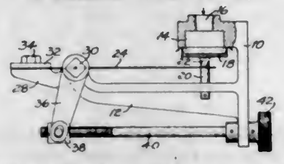
1. In a combined apron and bonnet construction, a waist encircling element having a bosom section provided with stay means, and a flap provided with suspending loops whereby said flap is detachably secured to said waist encircling element in a pendant position.

2,156,496

SENSITIVE INSTRUMENT

Otto T. Handwerk, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois

Application September 4, 1937, Serial No. 162,502
8 Claims. (Cl. 267—1)



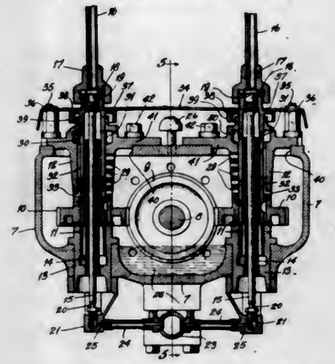
1. A sensitive instrument comprising an element exerting a force proportional to a function of a condition to be measured or controlled, a laterally flexible spring mounted at one end and engaging said element at its other end, a pivoted member having a portion lying at the side of its pivotal axis remote from the element, means securing said one end of the spring to said portion, the spring passing through an extension in space of the pivotal axis of said member, and means for controlling the position of said member about its pivotal axis.

2,156,497

DRIVING DEVICE AND MEANS FOR CONTROLLING THE FLOW OF FLUIDS THEREIN

James L. Herold, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application May 26, 1937, Serial No. 144,874
4 Claims. (Cl. 15—59)



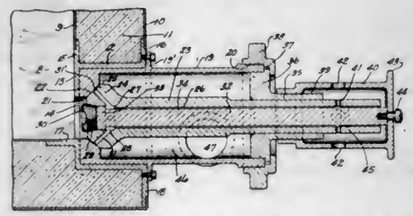
4. In a device of the kind described, a tubular conductor provided with a brush at its upper end, an injector nozzle extending into the lower end of said tubular conductor, means for rotating said tubular conductor and brush independently of said nozzle, said injector nozzle being of a smaller diameter than the internal diameter of said tubular conductor and separated from the conductor to permit free rotation of said conductor independently of said nozzle, and means for transmitting liquid to said nozzle.

2,156,498

VALVE

Ferdinand Hinrichs, Kenosha, Wis.

Application November 26, 1937, Serial No. 176,512
9 Claims. (Cl. 137—21)

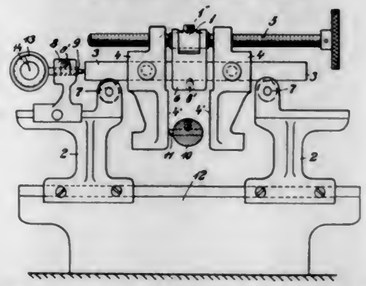


1. A valve comprising an outer casing having an inlet opening, having a discharge chamber, and having a discharge opening, a single reciprocably movable valve for shutting off communication between said inlet opening and discharge chamber, said valve having a reciprocably movable valve stem, means for by-passing liquid which leaks past a portion of said single valve when the latter is closed to prevent the leakage from entering the discharge chamber, and means for closing said by-pass prior to opening of said single valve.

2,156,499
METHOD FOR PROCESSING YEAST FOR COMBINATION WITH FOOD PRODUCTS
Lloyd M. Holcomb, Perry, Iowa
No Drawing. Application October 9, 1937, Serial No. 168,254
1 Claim. (Cl. 99—136)

The mixing of brewer's powdered yeast and powdered India gum, the addition of sodium bicarbonate and citric acid in such proportions that the resulting reaction will leave sodium citrate and an excess of sodium bicarbonate upon exposure to moisture, the addition of the complete mixture to a moist ice cream mixture, and lastly the freezing of the mass while it is being agitated.

2,156,500
BORING MACHINE GAUGE
Paul Jeschor, Breslau, Germany
Application December 16, 1936, Serial No. 116,083
In Germany February 7, 1936
8 Claims. (Cl. 33—185)



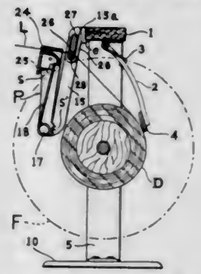
1. Setting apparatus for the tools of boring machines comprising a feeler device including a guide rod and two relatively displaceable members, said members being mounted on said guide rod and having opposed feeler surfaces adapted to be spaced according to the diameter of a bore to be cut, a support adapted to receive the guide rod to support the feeler device in a boring machine including a boring spindle with a tool therein, and to hold said device with said members on opposite sides of the boring spindle, said guide rod being movable relatively to said support in a direction transversely of the boring spindle axis, and indicator means adapted for engagement by said guide rod to indicate such movement of the feeler device as may be caused by engagement of the tool with a feeler surface of said feeler device when the tool is set to cut at a diameter greater than the spacing of said feeler surfaces.

2,156,501
CELLULOSIC RIBBON
Morris Katz, Bronx, N. Y.
Application December 8, 1937, Serial No. 178,766
14 Claims. (Cl. 41—21)



11. The herein described method of forming characterized cellulosic ribbon which consists in providing an elongated strip of cellulosic material, applying characterized markings on the strip at longitudinally spaced intervals, then folding the strip longitudinally to dispose predetermined transverse sections of the strip one upon the other to increase the depth of color of said markings on the resulting ribbon formed by folding said strip by arranging portions of said markings one upon the other, and arranging the markings on longitudinal areas of the strip so as to produce in the folding of said strip, a varied number of transverse marked sections arranged one upon the other to produce on the resulting ribbon a shaded effect of the colored marking applied to said strip.

2,156,502
WRAPPING PAPER FIXTURE
Frank H. Lawton, Spokane, Wash.
Application June 19, 1937, Serial No. 149,122
9 Claims. (Cl. 242—55.5)



5. In a wrapping paper fixture having standards carrying means for supporting a roll of wrapping paper and means to hold the paper in roll formation; a pair of pivotally mounted arms spaced apart to straddle the roll of paper, a pair of co-operating gripping jaws carried by said arms, a strip supporting member disposed rearwardly of said gripping jaws, a gravity bar cooperating with said strip supporting member, a pair of U-shaped bearing members loosely supporting the ends of said strip supporting member and said cooperating gravity bar.

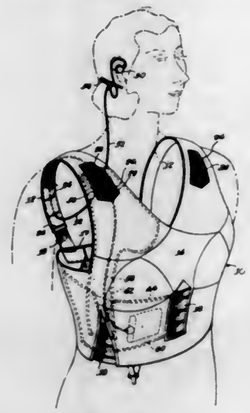
2,156,503
RECORDING INSTRUMENT
George E. Lindemann, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application January 31, 1938, Serial No. 187,857
6 Claims. (Cl. 234—72)



1. In a recording instrument having a pivotally mounted pen for making a record on a chart and a hinged cover, a pen lifter comprising an elongated member secured to and carried solely by said cover and lying under the pen to raise the pen when the cover is opened.

2,156,504
ACOUSTIC DEVICE SUPPORTER
Bess S. Liss, Detroit, Mich.
Application July 19, 1938, Serial No. 219,985
8 Claims. (Cl. 2—102)

1. In a garment, a tunneled passageway formed along the inner surface of the garment, and a pocket formed on said inner surface in communication with said passageway, said passageway being adapted for receiving the conduits of an electrical hearing-aid apparatus and said pocket being adapted for receiving the microphone of said apparatus, whereby said conduits and



microphone are supported and concealed by said passageway and pocket.

2,156,505
WINDSHIELD WIPER
Louis Marcolivio, Providence, R. I., assignor to Adelaine Romano, Providence, R. I.
Application July 21, 1937, Serial No. 154,773
2 Claims. (Cl. 287—62)



2. In a windshield wiper structure, a wiper arm comprising a casing section having front, side and end walls, a second section slidably mounted in one of the end walls of said first section, means threaded upon said last named section and bearing against the other of said sections for moving said sections relative to each other in one direction, and means carried by said first named section engageable with said second section for retaining said sections in fixed relation with each other.

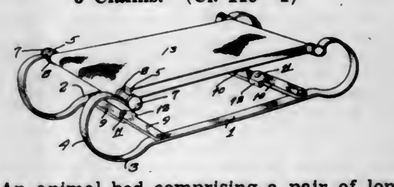
2,156,506
WINDSHIELD WIPER CONSTRUCTION
Louis Marcolivio, Providence, R. I., assignor to Adelaine Romano, Providence, R. I.
Application October 25, 1937, Serial No. 170,779
2 Claims. (Cl. 15—250)

1. A connecting means for securing a windshield wiper arm having a downturned end portion to a wiper blade comprising a member having spaced sides, a finger carried by said member extending over and spaced from portions of said spaced sides, and a spring member mounted between and supported by opposed portions of



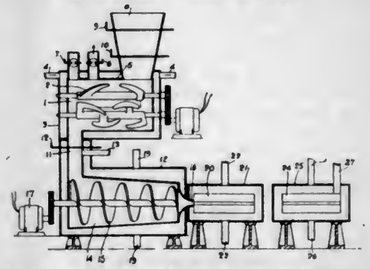
said spaced sides and having a resilient arm projecting angularly within the space between said finger and spaced sides and having an inclined end portion for engaging releasably the downturned end portion of a wiper arm inserted between said spaced sides and finger.

2,156,507
BED
Truman I. Means, Santa Fe, N. Mex.
Application August 20, 1937, Serial No. 160,101
3 Claims. (Cl. 119—1)



1. An animal bed comprising a pair of longitudinally extending side members each formed of a single piece of spring metal with gooseneck end portions extending upwardly and rearwardly and terminating in reversely curved end clips, a pair of transversely extending rollers having end portions adapted to be removably seated in the end clips of the side members, an endless apron passing around said rollers, and means to hold the side members in parallel spaced relationship when the bed is assembled.

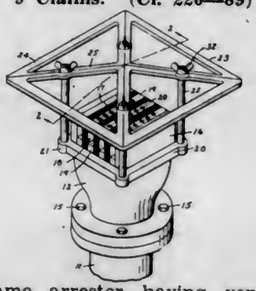
2,156,508
PROCESS OF MAKING SPONGE RUBBER
Henry R. Minor, Dayton, Ohio, assignor to Industrial Process Corporation, Dayton, Ohio, a corporation of New York
Application May 16, 1936, Serial No. 80,190
6 Claims. (Cl. 18—53)



1. A process of making sponge rubber comprising exposing the rubber batch to impregnation by carbon dioxide gas under a pressure sufficiently high to cause the gas to enter the rubber, extruding the gas-impregnated rubber through a die of predetermined configuration

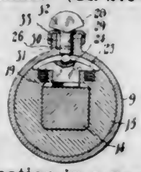
while maintaining the carbon dioxide content in the rubber substantially constant, cooling the rubber during extrusion to retard the premature expansion thereof, and after extrusion applying heat to expand and fix the shape of the extruded rubber prior to the vulcanization thereof.

2,156,509
FLAME ARRESTER SAFETY DEVICE
Frans G. D. Muller, Houston, Tex.
Application April 18, 1935, Serial No. 17,002
9 Claims. (Cl. 220—89)



7. A flame arrester having vent openings through which inflammable gases are adapted to be projected outwardly, a fusible cover thereabove adapted to intercept objects and prevent them from entering said vent openings, said fusible cover being so positioned with respect to said vent openings as to permit relatively free normal operation of the arrester before the cover is fused and a greater freedom of escape of heat from the arrester after the cover is fused.

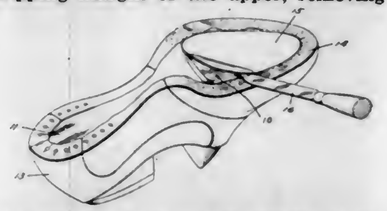
2,156,510
RETAINING DEVICE FOR PNEUMATIC DRILLS
Victor Karl Nelson, Glen Afton, Ontario, Canada
Application July 18, 1938, Serial No. 219,810
8 Claims. (Cl. 279—19.3)



1. The combination in a pneumatic drill, of a front head having its bore interrupted by a hole, a chuck journalled in said bore and having an axial bore receptive to a steel, a depressible key mounted in said chuck in alignment with said hole for retaining said steel, a loose element normally confined in said hole and adapted to be urged into the bore of said front head to depress said key, means for effecting such displacement of said element, and means retaining said element against dislodgment from said key whereby said element is carried around the bore of the front head in the rotation of the chuck.

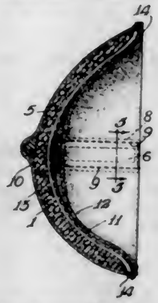
2,156,511
SHOEMAKING
William M. Page, Marblehead, Mass.
Application December 31, 1937, Serial No. 182,776
5 Claims. (Cl. 12—142)

1. The process of making shoes, which consists in placing a scored insole member on the forepart of a last, lasting an upper thereover, cutting out the insole member on the scored line with any overlapping margin of the upper, removing the



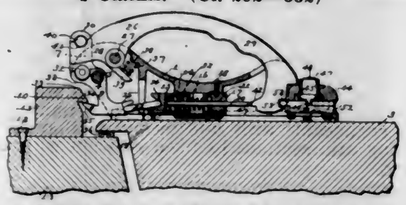
cut-out piece, building up the forepart of an outsole with the piece removed, and then securing the built-up outsole in the shoe bottom.

2,156,512
BUST FORM
James Bert Pitcher, Saginaw, Mich.
Application October 11, 1937, Serial No. 168,303
2 Claims. (Cl. 2—267)



1. A bust form comprising a shell of soft flexible felted fabric the margin of which is formed with darts, the edges of each slit being stitched together and presenting a seam, a supporting frame constituting a plurality of crossed resilient supporting members bowed and secured to the inner face of said shell beneath the respective seams, each resilient member being encased in a sheath of fabric stitched to the inner face of the shell along both sides of said seam, and a fabric cover for the outer side of the said shell.

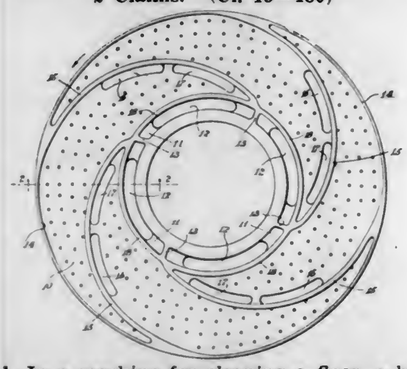
2,156,513
LATCH
Gordon E. Roedding, Grand Rapids, Mich., assignor to Grand Rapids Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application November 8, 1937, Serial No. 173,273
4 Claims. (Cl. 292—332)



2. A latch structure for refrigerators and the like, comprising: a latch casing; a latch bolt pivotally mounted in the casing, turnable to and from operative position engaging its keeper and having a bearing in its rearward edge; a member slidable in the casing toward and from the bolt and having a bearing in its forward end;

a toggle arm turnable at its forward and rearward ends in the bearings respectively, and with the bolt forming a toggle; a spring pressing said member forwardly and thereby alternately urging the bolt into and holding the same in its operative and retracted positions respectively; an operating handle pivotally mounted in the casing and turnable in engagement with the bolt to retract the same and turn the toggle arm to break the toggle against the pressure of the spring; a stop on the body with which the bolt engages in the closing movement of the closure for turning the toggle arm reversely to break the toggle against the pressure of the spring so that the bolt and toggle arm may be returned by the spring to their initial positions wherein the bolt operatively engages the keeper.

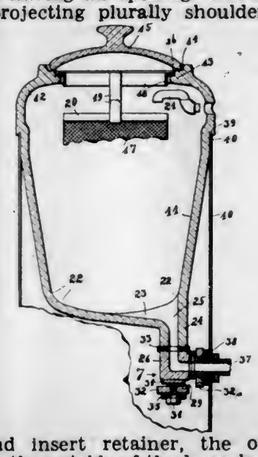
2,156,514
ROTARY BRUSH BACK
Joseph Sassano, Yonkers, N. Y.
Application August 3, 1937, Serial No. 157,118
2 Claims. (Cl. 15—180)



1. In a machine for cleaning a floor, a brush back having a peripheral flange and shaped to discharge cleaning liquid outwardly against said flange when rotated at a speed such that centrifugal force acting on said liquid is stronger than gravity, and a baffle inclined inwardly from said flange at an angle substantially less than forty-five degrees to a tangent to said flange at the junction of said baffle and flange whereby liquid thrown outwardly against said flange may be moved inwardly along said baffle, the back being provided with a perforation adjacent said baffle and inward of the flange through which liquid moved inwardly along said baffle may drop by gravity through said back while rotating.

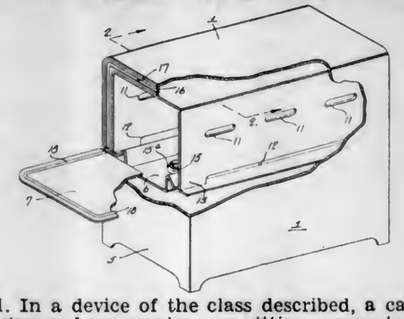
2,156,515
BEVERAGE VESSEL
William Schassler, Oakland, Calif.
Application June 26, 1937, Serial No. 150,437
1 Claim. (Cl. 53—3)

In a beverage vessel of the class described, a container made of porcelain or the like material for retaining heat, the larger body of the container being of a slightly conical form narrower at the bottom and wider near the top, the bottom being rounded around the edges with a concaved center and provided with a channel extending from said center to the side wall of the container deepening and slanting downwardly and with an outlet considerably lower than the lowest point of the concaved and channeled bottom, the top end of the container being substantially arched over the side walls of the main body and having an opening with a radially inwardly projecting plurally shouldered edge for



cover and insert retainer, the outlet having means on the outside of the large body container for applying draining connections.

2,156,516
KITCHENER
Emil Schneider, Philadelphia, Pa.
Application November 1, 1937, Serial No. 172,093
2 Claims. (Cl. 126—273)



1. In a device of the class described, a casing having a door opening permitting access to the interior thereof, a door for said opening, and a walled structure within said casing defining an inner compartment and substantially vertical passages on opposite sides of said compartment between said casing and said compartment, said walled structure having upper and lower openings connecting said compartment with said passages, the bottom of said compartment having provision for means for heating the interior of the compartment, to thereby cook a substance within said compartment and cause cyclic circulation and incineration of vapors and steam.

2,156,517
COMBINATION TEA STRAINER AND DROP CATCHER
Erich Stamm, Berlin, Germany
Application November 15, 1937, Serial No. 174,519½. In Germany November 25, 1936
2 Claims. (Cl. 210—162)

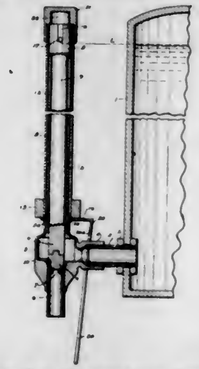
1. A strainer for tea-pots and the like which comprises in combination a curved body portion constituted of resilient wire adapted to be inserted into the spout of a tea-pot and to be positively retained therein by means of resilient

deformation thereof, and a plurality of corrugated resilient wires having one of their ends secured to the lower end of said body portion and having their other end extending to the inner surface of said spout to form a strainer element therefor,



the upper end of said body portion extending slightly beyond the upper end of said spout and being downwardly directed to form a combination drop catcher and handle for the convenient insertion and removal of said strainer.

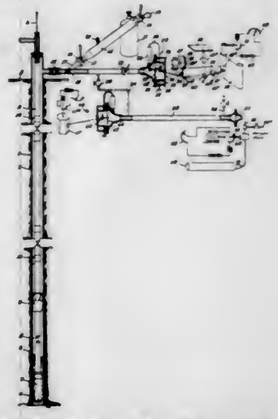
2,156,518
LIQUID DISPENSING VALVE
Thomas L. Titus, Denver, Colo., assignor to The Wyott Manufacturing Company, Cheyenne, Wyo., a corporation of Wyoming
Application May 28, 1938, Serial No. 210,551
8 Claims. (Cl. 225—27)



1. A device for dispensing liquid from a reservoir, comprising a housing having a conduit leading thereinto from the reservoir and extending upwardly above the liquid level in the reservoir and having an outlet below the conduit, a valve seat in the housing above the outlet, a plug for said seat and a shaft carrying said plug and reciprocable in the upper part of said housing and operating means slidably mounted on the housing engaging said shaft above said liquid level but carrying actuating means adjacent the outlet, for reciprocating said shaft.

2,156,519
MEANS FOR MEASURING THE LOCATION OF OBSTRUCTIONS IN WELLS
Cranford P. Walker, San Marino, Calif.
Application September 7, 1937, Serial No. 162,699
17 Claims. (Cl. 181—0.5)

7. In a device for determining the location of an obstruction in a well, means communicating with said well for creating a pressure impulse in said well, means for receiving and translating echoes received from said obstruction including diaphragm means, coupling means intercommunicating one face of said diaphragm means with said well, means defining a pressure equalizing chamber on the opposite face of said diaphragm, means defining a second chamber of greater volume communicating with said first chamber, valve means for restricting communication between said two chambers to vary the effective volume of the chamber exposed to said opposite face of said diaphragm means to control the sensitivity of response of said diaphragm means to pressure variation in said well, and means for measuring the lapse of time between the creation of said impulse and the movement of said diaphragm by the echo of said impulse from said obstruction.



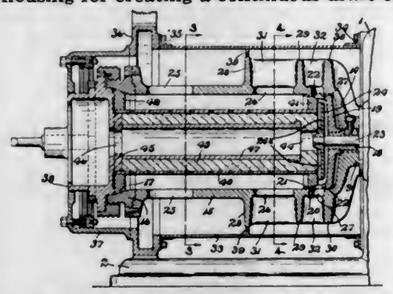
13. In an apparatus for determining the unknown location of an obstruction in a well having a string of assembled tubing sections therein connected by couplings, means communicating with said well for creating a pressure impulse in said well to produce echoes of said impulse from the couplings and other obstructions in said well, echo receiving and registering means coupled to said well to expose said receiving and registering means to pressure variations produced in said well by echoes from said obstructions, and means associated with said receiving and registering means to accent the registration of tubing coupling echoes.

2,156,520
WITHDRAWN

2,156,521
APPARATUS FOR PRODUCING CYLINDER SLEEVES
Adolph G. Anderson, Muskegon, Mich., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon, Mich., a corporation of Michigan
Application May 9, 1938, Serial No. 206,755
4 Claims. (Cl. 22—65)

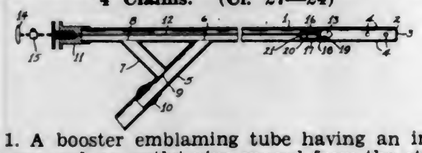
2. In a machine of the class described, a rotating cylindrical housing adapted to receive an elongated cylindrical flask therein, a cylindrical covering enclosing said housing, means on said housing and covering dividing the space between them into two chambers, the cylindrical covering having an air inlet into one of said compartments and an air outlet leading from the other, said

housing having slots connecting said chambers with the space between the inside of the housing and the flask, and means on and movable with the housing for creating a continuous draft of air



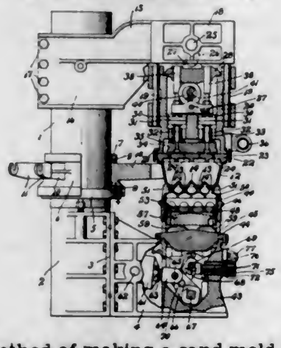
drawn into said inlet into one chamber, thence through slots in the housing into the space between said housing and flask, and thence out through slots in the housing into the other chamber and projected outwardly through said outlet.

2,156,522
BOOSTER EMBALMING TUBE
Amos V. Bowmer, San Francisco, Calif.
Application June 11, 1937, Serial No. 147,658
4 Claims. (Cl. 27—24)



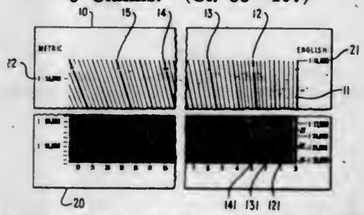
1. A booster embalming tube having an inlet at one end, an outlet pipe spaced from the other end, a packing gland closing the end of the tube disposed close to the outlet pipe, a piston rod slidable in the tube and packing gland, a piston mounted on the rod and being slidable in the tube, and an auxiliary pipe leading from the tube at a point adjacent to the packing gland and communicating with the outlet pipe.

2,156,523
METHOD OF MOLDING
Donald J. Campbell, Spring Lake Township, Ottawa County, Mich.
Original application December 3, 1934, Serial No. 755,688. Divided and this application March 18, 1935, Serial No. 11,568
1 Claim. (Cl. 22—193)



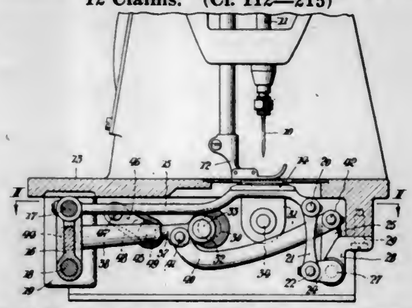
The method of making a sand mold which consists, in providing a flask having an open side and a plurality of sand entrances at its opposite side, supporting said flask in an inverted position with its open side downwardly, horizontally positioning a match plate and pattern thereon below and adjacent to the open side of the inverted flask, forcing sand by fluid pressure through said openings in the flask to fill the flask with sand above said match plate and pattern, thereafter simultaneously moving the match plate and pattern upwardly a predetermined distance to squeeze the sand in the flask and then simultaneously drawing the match plate and pattern in a downward direction from the sand mold in said flask.

2,156,524
VARIABLE SCALE
David J. Christensen, Berkeley, Calif.
Application February 27, 1937, Serial No. 128,180
6 Claims. (Cl. 33—107)



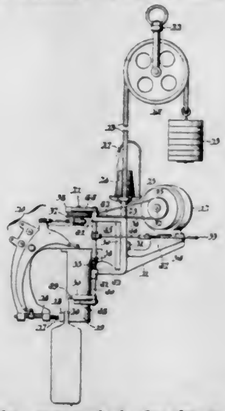
1. A measuring device of the type described, comprising a frame adapted to be placed on a plane surface, a flexible chart movably positioned in said frame, and an edge member for said frame, the lower edge of said member being positioned substantially in the bottom plane of said frame, said chart extending across the last named edge member at the lower edge thereof and backwardly therebeneath to present a working line across the width of said chart and substantially in the plane of said base.

2,156,525
FEED MECHANISM FOR SEWING MACHINES AND THE LIKE
Norman V. Christensen and Clarence C. Smith, Chicago, and George Sauer, Berwyn, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application November 29, 1935, Serial No. 51,992
12 Claims. (Cl. 112—215)



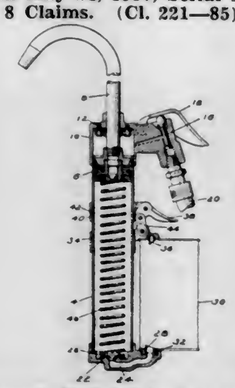
9. A feed mechanism of the character described comprising a feed dog and its support or carrier, means supporting one end of said carrier for substantially horizontal movement, a drive shaft and an eccentric-crank actuator thereon, a pitman actuated by said crank and a member in longitudinal sliding engagement with said pitman and operatively connected to said carrier to reciprocate it horizontally, means affording a mobile fulcrum for said member, a rocker having substantially upright and horizontal arms, a link connecting said upright arm to said pitman, and a link connecting said horizontal arm to the other end of said carrier.

2,156,526
FILLED BAG CLOSING UNIT
Norman V. Christensen, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application April 23, 1937, Serial No. 138,589
5 Claims. (Cl. 192—11)



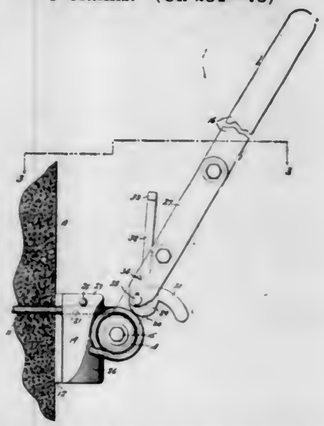
1. A flexibly suspended, freely movable outfit for closing the mouths of filled sacks and the like, comprising a bracket, a fastening-machine mounted on said bracket with its driving shaft substantially vertical, a motor mounted on said bracket for movement relative thereto, a belt interconnecting the motor and fastening machine shafts so as to be tightened to drive the machine, and relaxed to leave it idle, by movements of the motor relative to the bracket, a substantially vertical shaft and brake means for stopping the machine operated thereby, and means operated by movement of said shaft to swing the motor and relax the belt when the brake is applied, and vice-versa.

2,156,527
DISPENSER
Otto B. Clark, Chicago, Ill., assignor to The Lubrication Corporation, Chicago, Ill., a corporation of Delaware
Application May 24, 1937, Serial No. 144,437
8 Claims. (Cl. 221—85)



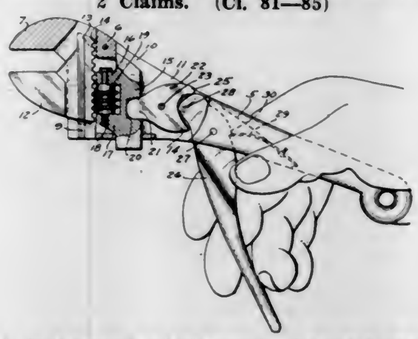
1. A dispenser for lubricant or the like comprising a cylinder, a piston slidably mounted in said cylinder and having an opening therethrough, a discharge tube communicating with one end of the cylinder through said opening, means connected to the cylinder at one side of the piston for communication with a container for lubricant or the like, and means for admitting fluid under pressure to the cylinder at the other side of the piston to move the piston through the cylinder, thereby to force the contents of the container out through the discharge tube.

2,156,528
MEANS FOR PULLING FORM TIES FROM CAST CONCRETE
Samuel S. Colt, West Orange, N. J.
Application May 3, 1938, Serial No. 205,698
5 Claims. (Cl. 254—73)



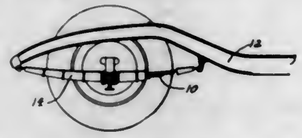
1. In a tool for the purposes described, a foot member, a hand-lever means fulcrumed in connection with said foot member, winch-roll means rotative about the fulcrum of said hand lever means, gripper means mounted on said hand lever means for cooperation with said winch-roll means, and a sheer cam means carried by said foot member adjacent the rearward side of said winch-roll means, said sheer cam means being adapted to engage and laterally deflect a rod or wire as wound about said winch-roll means so as to form the same into a spiral coil laterally extended from a side of said winch-roll means.

2,156,529
WRENCH
Lyman A. Day, Litchfield, Minn.
Application April 11, 1938, Serial No. 201,271
2 Claims. (Cl. 81—85)



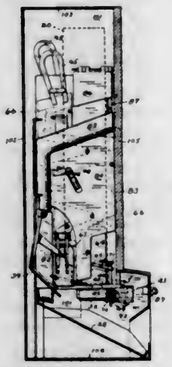
1. In a wrench, a body member having a handle and a fixed jaw, a movable jaw slidably mounted in the head of said body and having rack teeth, an abutment block slidably mounted in said head for movement on a line parallel to the line of movement of said movable jaw, a spirally threaded hub rotatively mounted in said abutment block and engaging the threads of said movable jaw, a three-pronged rocker intermediately pivoted to said body, the forwardly projected prong of said rocker engaging a notch in said abutment block, the other two prongs of said rocker being rearwardly projected, and a lever intermediately pivoted to said body and having a cam acting end operative on the two rearwardly projected prongs of said rocker, the action thereof on one of the prongs of said rocker serving to separate the jaws and the action on the other of said rear prongs serving to close the jaws.

2,156,530
PROTECTIVE COVERING
Michael W. Freeman, Detroit, Mich.
Application July 20, 1936, Serial No. 91,517
5 Claims. (Cl. 267—37)



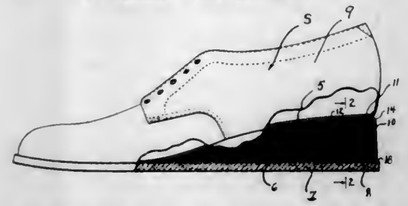
1. A flexible protective covering having a metallic body portion and an elastic material bonded to the surface of said body portion.

2,156,531
VENDING MACHINE
Paul L. Geer, Berkeley, Calif.
Application June 24, 1936, Serial No. 86,997
8 Claims. (Cl. 194—39)



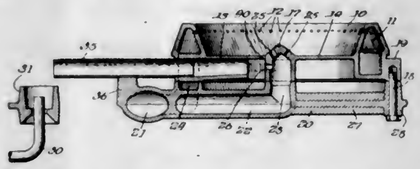
1. In a coin-controlled machine for vending articles of different sale values from a line of mutually independent stacks thereof, movable ejectors arranged for independent operation at the different stacks and carrying wedge plates, a line of normally engaged members extending across the paths of movement of the wedge plates and contacting in planes including the wedge plates whereby the latter may be operative between contacting members to separate the same in their line when an ejector is displaced from its normal position, stop elements jointly coactive with the line of said members to prevent their separation and independently disposable in inoperative position to then permit different distances of separation of engaged members by a wedge plate operative between them, said wedge plates being of different thicknesses corresponding to the different distances of separation permitted for the members when the different stop elements are inoperative whereby only those ejectors may be actuated which have wedge plates of a thickness which is no greater than the distance of permitted separation of the members, and means utilizing a coin deposited in the machine to inoperatively dispose a stop element to thereby permit the operation of an ejector to free an article of corresponding value from a stack.

2,156,532
SHOE
James B. Greider, Racine, Wis.
Application April 25, 1938, Serial No. 204,090
4 Claims. (Cl. 36—2.5)



1. In a shoe of the character described, an insole, a middle sole, a pad formed from cushioning material and of a wedge shape interposed between the insole and the middle sole at the rear part of the shoe, a flexible covering for said pad, and a heel seat plate secured to the insole having a marginal portion embracing the sides and rear end of the pad.

2,156,533
GAS BURNER
Philip S. Harper, Chicago, Ill., assignor, by direct and mesne assignments, of one-fourth to Carolyn L. Harper and one-fourth to Philip S. Harper, both of Chicago, Ill., and one-half to Philip S. Harper and Carolyn L. Harper as trustees
Application May 1, 1937, Serial No. 140,110
8 Claims. (Cl. 158—115)



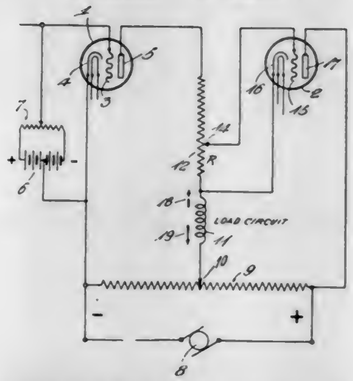
1. A gas burner comprising a simmer burner and a main burner, separate means for supplying air and gas to each of said burners respectively, and an air space between said simmer and main burners through which secondary air of combustion is supplied to at least one of said burners, means for automatically igniting said simmer burner comprising a flash tube extending from a point adjacent a pilot light to a point in said air space and adjacent the simmer burner, a lighter port in said simmer burner for feeding gas to said flash tube and a partition extending across said air space at a location adjacent said lighter port.

2,156,534

ELECTRIC DISCHARGE DEVICE CIRCUITS

Lawrence A. Hyland, Washington, D. C., assignor, by mesne assignments, to Bendix Radio Corporation, New York, N. Y., a corporation of Delaware

Application November 13, 1935, Serial No. 49,598
10 Claims. (Cl. 250—27)



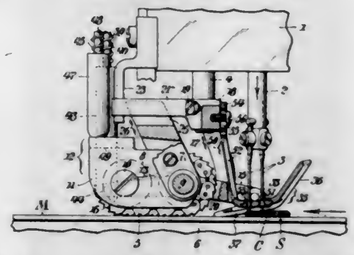
1. An electric discharge device circuit arrangement adapted to control the magnitude and direction of current flow through a load circuit, comprising a pair of electric discharge devices each having a control electrode, a cathode and an anode, a source of current supply, connections between one terminal of said source of current supply and the cathode of one of said discharge devices, connections between the other terminal of said source of current supply and the anode of the other of said discharge devices, a load circuit connected in series with the anode of said first mentioned discharge device the cathode of said second mentioned discharge device and said source of current supply, means for controlling the grid potential of said second mentioned discharge device in accordance with the anode current of the first mentioned discharge device and means for controlling the anode-cathode conductivity of the first-mentioned discharge device.

2,156,535

NEEDLE GUIDE FOR SEWING MACHINES

Frank A. Kucera, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application April 4, 1936, Serial No. 72,764
7 Claims. (Cl. 112—261)



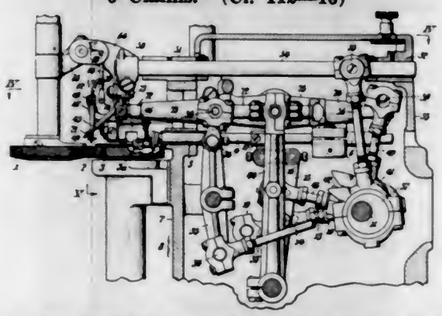
1. In a sewing machine comprising a vertically-reciprocating needle, a presser foot, a rocker arm to the end of which the presser foot is pivotally connected for capacity to move vertically and angularly incident to passage therebeneath of irregularities like cross seams in the material being sewed, and a supporting member confined to vertical movement and having a pivotal connection with the rocker arm at an intermediate point; the combination of a guide with a guide hole therein for bracing the needle against being bent or broken by abrupt thickness offsets in the fabric influencing the presser foot, said guide being secured to the supporting member aforesaid at an elevation above the normal level of the presser foot, and adapted to be received in a clearance opening in the presser foot when the latter moves angularly and vertically as aforesaid.

2,156,536

SEWING MACHINE

Frederick Lutz, Stuttgart, Germany, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany

Application February 26, 1938, Serial No. 192,684
In Germany March 2, 1937
6 Claims. (Cl. 112—16)



2. An auxiliary thread-manipulating attachment for over-edge sewing machines of the type having a housing, a pair of tangentially-arranged feed wheels rotative about vertical axes exteriorly of the housing, a horizontal needle bar confined to endwise reciprocation, a thread-carrying looper to cooperate with the needle, and a drive shaft journaled in the housing from which the needle bar and the looper derive their movements, said attachment including an auxiliary thread-manipulating element to cooperate with the looper, a horizontal stud with means for securing it to the housing whereon the thread-manipulating element is pivoted, an auxiliary actuating shaft for the element, means for journaling the auxiliary shaft on the housing above and in parallel relation to the needle bar, means operatively connecting the thread-manipulating element with the auxiliary shaft, and means whereby the auxiliary shaft is operated from the drive shaft of the machine.

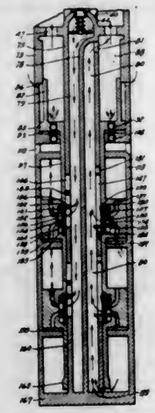
2,156,537

FLUID DRIVEN MOTOR PUMP

John D. Mathews, Oklahoma City, Okla.

Application August 15, 1935, Serial No. 36,383
26 Claims. (Cl. 103—46)

1. In a fluid driven motor-pump for bored wells, the combination with a piston chamber having a cylinder head at each of its ends, and with a piston rod and piston reciprocatably mounted within the chamber, of a stationary combination delivery tube for power fluid and exhaust tube for used power fluid, said piston rod slidably mounted upon the tube and held against rotation with relation thereto, ports in the tube, other ports in the piston, and a reciprocal valve carried by the piston and controlling flow of fluid from the tube to the chamber and from the chamber to the tube, for causing reciprocation of the piston.

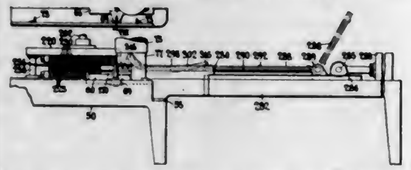


2,156,538

METHOD OF MAKING HEAT TRANSFER UNITS

Hyla F. Maynes, North Tonawanda, N. Y., assignor of one-half to Emma C. Maynes, North Tonawanda, N. Y.

Application July 22, 1936, Serial No. 91,950
16 Claims. (Cl. 113—118)



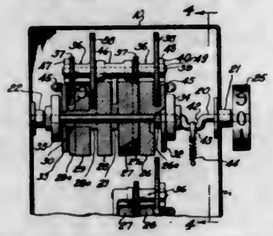
1. A method of making heat transfer units which comprises holding a series of plain unpunched fins of strip material in parallel spaced relation, piercing the fins by forcing an assembled unit of pipe sections and piercing means through the several unpunched fins while they are held in such parallel spaced relation to assemble the fins and pipe sections in substantially the relation they assume in their final form in the heat transfer unit, and withdrawing the piercing means from the assembled fins and pipe sections.

2,156,539

BRIDGE SCORE REGISTER

Neil McMurdo, Niagara Falls, N. Y.

Application January 12, 1937, Serial No. 120,227
3 Claims. (Cl. 235—117)



1. A game score registering device comprising a casing, a registering unit mounted in the casing and including a bearing structure, an operating shaft mounted in the structure, dials mounted within the casing, clutch connections between the shaft and the dials, a crank formed on the shaft, a strap on the crank, and resilient means between the strap and casing for returning said shaft to a predetermined position when not in operation.

2,156,540

BARREL OR DRUM FLANGE UNIT

Earle Gordon Melrath, Philadelphia, Pa., assignor, by mesne assignments, to American Flange & Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois

Application October 2, 1935, Serial No. 43,138
1 Claim. (Cl. 220—39)



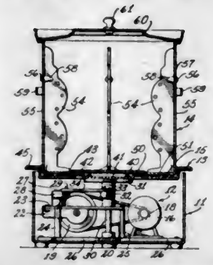
In structure of the kind described, a container having an opening in a wall thereof, a sput mounted in said opening and having a body seated upon the container wall around said opening, said body being recessed circumferentially, a closure plug adapted to be inserted in said sput and having a rim overlapping the sput body, a gasket resting on the body of the sput and centered by the rim of the closure plug, and a cap including a crown covering and loosely fitting over the outer end of the closure plug, a brim extending from said crown and engaging the gasket, and a skirt projecting from the brim and surrounding said gasket, the lower portion of said skirt being turned inwardly into the recess to fix the cap to the sput and thereby clamp the gasket between the brim of the cap and the body of the sput.

2,156,541

PORTABLE WASHING MACHINE

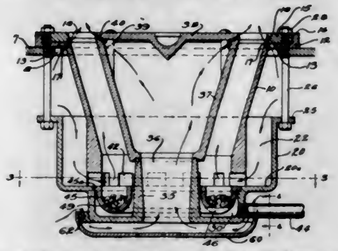
Paul K. Misenhimer, Los Angeles, and William A. Williams, Tujunga, Calif.

Application December 15, 1936, Serial No. 115,930
2 Claims. (Cl. 74—75)



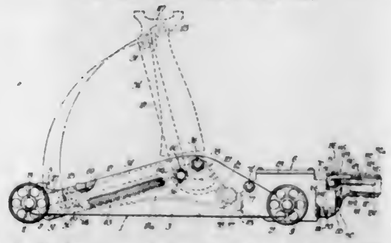
1. For use in combination with a wash tub, tub supporting and driving means comprising: an open top housing; a vertical shaft rotatably mounted in said housing; a motor in said housing; means connecting said motor and said shaft for imparting an oscillating motion to said shaft; and a driving pan mounted on said shaft adapted to accommodate a wash tub, the main portion of said pan being within said housing, said pan having a peripheral flange extending over and beyond said housing, thereby forming a cover for said housing and acting to prevent entrance of liquid into said housing.

2,156,542
OIL BURNER
Henry E. Nelson, Everett, Wash.
Application October 30, 1936, Serial No. 108,413
2 Claims. (Cl. 158—91)



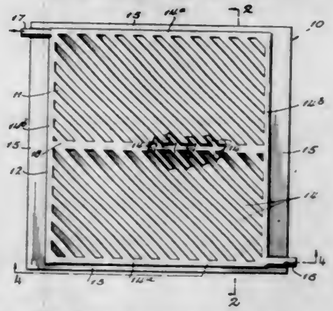
1. In a furnace having a closed fire box with a bottom wall provided with an opening, an oil burner fitted in said opening and depending below said wall; said burner comprising a pan-like housing formed with an annular depression centrally in the bottom wall for a supply of fuel oil and having a central flue open at its lower end for inflow of outside air and open at its upper end; two spaced housings of inverted, conical form disposed centrally within the pan and providing an intermediate combustion space of substantial length and without flare, open at its lower end to the annular depression and open at its upper end into the fire box; the inner housing being hollow and communicating at its lower end with the flue, a cover plate applied to the upper end of the inner housing and providing an air inlet slot about its periphery for inflow of outside air to the firebox at the upper end of the said combustion space; said outside housing being spaced inwardly from the side walls of the pan and provided about its lower edge with air inlet ports of relatively large area into the lower end of the combustion space and at its upper edge with air inlet ports of relative small area opening into the upper end of the combustion passage.

2,156,543
HYDRAULIC JACK
Edward M. Pfauser, Elm Grove, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application January 18, 1936, Serial No. 59,651
21 Claims. (Cl. 254—2)



1. A jack comprising a frame, a power unit mounted at one end on said frame and including a longitudinally movable plunger in the lower portion thereof, a lifting lever pivotally mounted on said frame adjacent said power unit and including a generally downwardly disposed power receiving portion and generally longitudinally disposed load supporting section extending to the other end of the frame, said power receiving section of the lifting lever being in contact with said plunger so as to receive power therefrom, a load supporting saddle pivotally mounted at the outer end of said lifting lever, link means extending alongside said load carrying section of the lifting lever and also pivotally connected with said load supporting saddle, there being an arcuate slot formed in said lifting lever adjacent the pivot thereof, and an anchoring pivot pin carried by said frame and extending through the slot in said lifting lever, said pin pivotally receiving the inner end of said link means.

2,156,544
EMBOSSED TUBE EVAPORATOR PLATE FOR REFRIGERATING SYSTEMS
Walter Raskin, New York, N. Y.
Application October 16, 1936, Serial No. 105,869
3 Claims. (Cl. 62—95)



2. A quadrilateral evaporator plate, having substantially parallel top and bottom edges for refrigerated storage cabinets comprising two superimposed metal sheets, one of said sheets being embossed to form channels running obliquely to said edges across said sheets and a continuous header running along and adjacent the side edges thereof, the other sheet being flat and welded to said embossed sheet along the edges and along said channels to form oblique ducts all opening into said header, means for introducing the refrigerant into said evaporator plate at an angle to said ducts and an additional sheet superimposed upon said flat sheet forming therewith a receptacle adapted to contain eutectic solution.

2,156,545
PREPARATION OF A SLOWLY ABSORBED ANTIDIABETIC HORMONE
Lazar Rosenthal and Jonas Kamlet, Brooklyn, N. Y.
No Drawing. Application November 19, 1936, Serial No. 111,617
9 Claims. (Cl. 167—75)

1. A process for the preparation of slowly-absorbed anti-diabetic hormone which comprises reacting an aqueous suspension or solution of insulin at a pH between 1 and 7, with an aqueous solution of an alum and suspending the resultant precipitate in an aqueous medium.

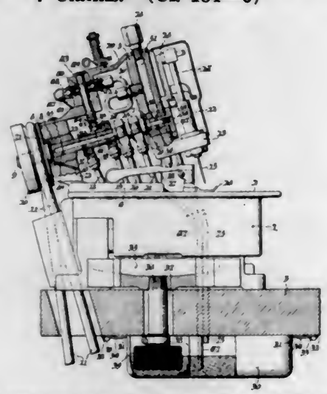
2,156,546
SHOCK ABSORBER CONTROL MEANS
Peter F. Rossmann, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application January 10, 1935, Serial No. 1,261
7 Claims. (Cl. 137—153)

1. In a fluid control system, a suction line having an opening leading to atmosphere, a self-closing valve associated with the opening in said line, loaded valve mechanism closed in response to pressure, and cam means operable to momentarily



open said valves, and to change the loading of said loaded valve mechanism resisting pressure closing thereof.

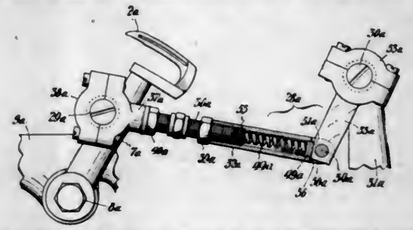
2,156,547
LUBRICATING SYSTEM FOR SEWING MACHINES
Clarence C. Smith, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application April 4, 1936, Serial No. 72,759
7 Claims. (Cl. 184—6)



1. In a sewing machine comprising a shaft with a number of eccentrics thereon, and strap rods associated with the eccentrics for imparting motion to various instrumentalities of the machine mechanism; the combination of a force feed circulating lubricating system including an oil reservoir, a pump having a capacity greater than that required for the machine for drawing oil from the reservoir, a pressure chamber receiving the oil from the pump and communicating with an axial hollow of the shaft, from which hollow the oil is distributed by way of radial ports to eccentric channels around the shaft internally of the eccentrics and continually forced under centrifugal action from the deeper portions of said eccentric channels to the outer surfaces of the eccentrics, and provisions for returning the excess oil from the pressure chamber to the reservoir.

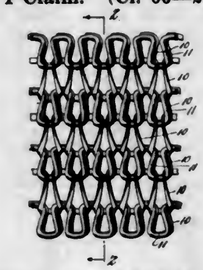
2,156,548
COLLAPSIBLE CONNECTING ROD
Clarence C. Smith, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application December 8, 1936, Serial No. 114,728
11 Claims. (Cl. 74—579)

3. A collapsible connecting rod comprising two components, each having a bearing aperture, a pivot interconnecting said components, the axis of said pivot and said bearing apertures normally lying in a straight line, one of said components having angularly-arranged tangential flats at its pivot end, and yielding means on the other of said components having a flat bearing surface for contacting respectively with the flats on the



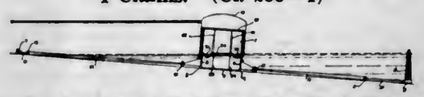
first mentioned component to maintain the rod in extended position or in collapsed position.

2,156,549
ABSORBENT AND ABRASIVE FABRIC
Stanton M. Smith, Jr., Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application November 7, 1936, Serial No. 109,648
1 Claim. (Cl. 66—202)



An absorbent and abrasive knitted fabric formed by rows of interlinked loops including rows of composite loops composed of a strand of absorbent fibrous material and a strand of abrasive metallic material in linearly parallel relation, whereby the soft strand is closely contiguous to the hard strand and forms a cushioning support therefor throughout the entire extent of the latter, and also including rows of loops formed solely from the strand of abrasive metallic material alternated with said rows of composite loops.

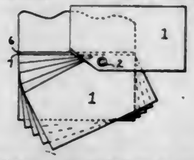
2,156,550
OCEAN WAVE DYNAMO
Asa B. Snider, Portland, Oreg.
Application July 25, 1936, Serial No. 92,574
4 Claims. (Cl. 253—4)



1. In a device of the class described, the combination of a structural frame, said structural frame having a bottom disposed thereunder, with said bottom having up-turned sides with rounded corners disposed therebetween, running lines outwardly extending from opposite sides of the frame, with said lines running about sheaves spaced apart therefrom, and disposed at opposite sides of the frame, with one end of said line being secured to the frame, the intermediate portion of said line being trained about a winding drum, a deck superposed above the bottom and said deck being spaces sufficiently from the bottom to be disposed above maximum wave height, power driven winding drums disposed upon the deck,

a wave motor-disposed upon the deck and about which the line is trained and automatic means for energizing the power unit for moving the frame toward and away from the shore line to automatically maintain the frame assembly within water of a predetermined depth.

2,156,551
CARD SYSTEM
Nathan I. Stark, Jersey City, N. J.
Application June 23, 1936, Serial No. 86,749
9 Claims. (Cl. 129—16.5)



2. A card system comprising a number of card members, each having an opening adjacent one corner thereof in alinement one with the other, an abutting portion formed adjacent each said opening, said portions being along lines of tangency to the same arc but normal to different radii of such arc when said card members are in position with their lower edges in alinement.

2,156,552
BURIAL RECEPTACLE
Robert L. Taylor, Aspinwall, Pa.
Application August 4, 1936, Serial No. 94,123
1 Claim. (Cl. 27—3)



A burial receptacle of the character described comprising the combination of a case including bottom, side, and end members permanently secured together, and further including an interfitting cover member, each of said members being constructed of two plies of rigid sheet material having a sheet of porous material disposed therebetween to provide air space throughout the area of said two plies of rigid sheet material, and a coating of preservative material applied to the entire outer surface of said case.

2,156,553
DISPLAY DEVICE
Van L. Vendope, Dallas, Tex., assignor of thirty-three and one-third per cent to Richard Burdick and thirty-three and one-third per cent to Arthur S. Baron, both of Dallas, Tex.
Application August 4, 1936, Serial No. 94,266
3 Claims. (Cl. 40—131)



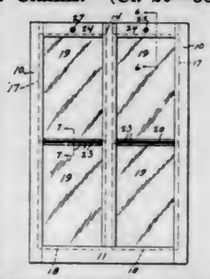
1. Illuminable display means, comprising, in combination, a tubular lamp element of the character described and having detachable cap members at its opposite ends of greater diameter than the tube proper, and interchangeable external illuminable display sleeves loosely fitting the lamp tube and when applied being removably retained by said detachable cap members, the respective display sleeves being open at their opposite ends whereby to be slipped, either end first, onto and from the lamp tube.

2,156,554
CONDIMENT CONTAINER
Charles Vitek, Omaha, Nebr.
Application December 9, 1936, Serial No. 114,905
4 Claims. (Cl. 65—45)



4. A condiment holder including a container body comprising a circular band having outwardly and inwardly disposed circular peripheral beads of substantially U-shaped cross-section, end closure walls for this tubular body, each of said end walls having a peripheral edge extended into the U-shaped section of the bead of said circular band for frictional engagement therein, a pair of spaced openings in said circular band, and perforated cover means extending over said openings.

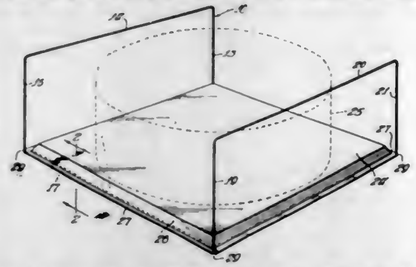
2,156,555
WINDOW CONSTRUCTION
Evert Wandscheer, Sioux Center, Iowa
Application April 3, 1937, Serial No. 134,741
7 Claims. (Cl. 20—56.2)



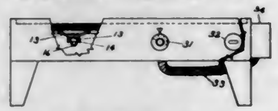
1. A window construction comprising a frame including a pair of side stiles and a central member, said members having vertical grooves running to the top of the frame, window panes inserted within said grooves, offset means cooperant with the top of the frame for retaining said panes, including a pair of removable vertical retaining members having tongues engaged with said grooves, said tongues being indented for receiving the top of said panes.

2,156,556
CAKE PACKAGE OR THE LIKE
Tracy C. Weltmer, Kansas City, Mo., assignor, by mesne assignments, to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware
Application October 14, 1936, Serial No. 105,453
1 Claim. (Cl. 206—44)

A cake package or the like embodying a cardboard pad having margins in one plane and a center portion offset, a single continuous length of wire bent to form a closed loop and also bent intermedially to form alternately oppositely facing U-shape portions together defining a rectangular parallelopiped, portions of the wire being inwardly offset toward the center of the parallelopiped by substantially right-angle return bends to provide a substantially horizontal support having parts of the wire extending in four directions in a single plane, said support receiving margins of said pad thereon while the offset portion of the pad projects further into the parallelopiped and being wholly within the parallelopiped while leaving the parallelopiped rectangular, corners of said pad being notched to receive said return bends..



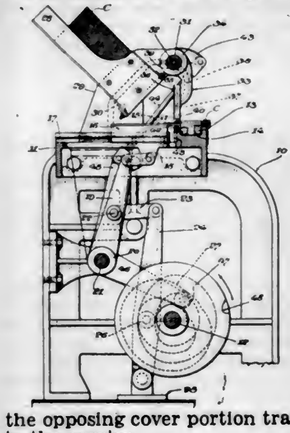
2,156,557
ELECTRIC GRILL
Frank C. Wilson, Bloomington, Ill., assignor to Servrite Mfg. Co., Bloomington, Ill., a corporation of Illinois
Application August 21, 1936, Serial No. 97,112
4 Claims. (Cl. 219—19)



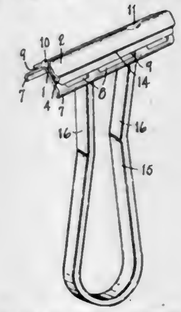
1. In an electric grill, an aluminum alloy grill plate, insulated supporting means for said grill, electrical heating elements clamped to said grill to heat same by conduction, and an adjustable bimetallic thermostat attached to the grill plate to regulate the temperature of the grill by stopping or starting the flow of electric current through a solenoid operated switch with unit contacts for each heating element.

2,156,558
COVER FEEDING AND FOLDING MECHANISM FOR BOOKING MACHINES
Charles F. Wright, Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application October 30, 1937, Serial No. 171,890
4 Claims. (Cl. 93—2)

1. In a match booking machine and the like having a travelling carrier, means for supporting a stack of covers, an oscillatory element for removing each succeeding cover from the stack and positioning it vertically with a free depending end laterally adjacent the carrier, and means for transversely folding the segregated cover and inserting the folded cover in the carrier, said means including a member reciprocative into and from the carrier in a plane intersecting that of the depending end of the cover, and including also a stationary member in spaced parallel relation to the lower portion of said element when the latter is in vertical position, thus providing a folding space between which the said reciprocative member and the opposing cover portion travel in their passage to the carrier.



2,156,559
RAZOR
Leonard A. Young and John M. Oldham, Detroit, Mich.; said Oldham assignor to said Young
Application May 16, 1936, Serial No. 80,048
10 Claims. (Cl. 30—51)

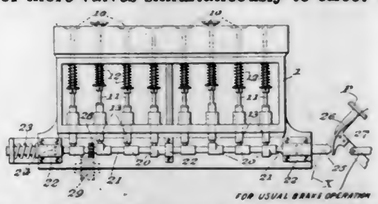


1. In a safety razor, the combination of a blade holder comprising inner and outer members of angled cross section spaced to receive a blade between them, the sides of the inner member terminating in inwardly curved guards and having longitudinal slot-like clearance opening above said guards and also having inwardly struck opposed handle engaging lugs, the outer member being integrally connected at one end to one end of said inner member and having a struck-up portion at its apex providing a keeper, a double edged blade of angled cross section slidably engageable between said holder members and having a lug-like finger piece at one end and a detent portion struck up therefrom engageable with the keeper of said outer member, and a U-shaped handle, the arms of which terminate in outwardly directed lugs upon which said handle lugs of said inner holder member are clamped.

2,156,560
COMPRESSION BRAKE SYSTEM
Walter H. Bachmann, Athol, Mass.
Application November 1, 1937, Serial No. 172,146
3 Claims. (Cl. 192—3)

1. In an automotive internal combustion en-

gine for use in a motor vehicle having a brake system including a brake operating pedal, said engine having a plurality of cylinders and a plurality of cam operated compression control valves, means adapted to interrupt the cam operation of two or more valves simultaneously to effect their



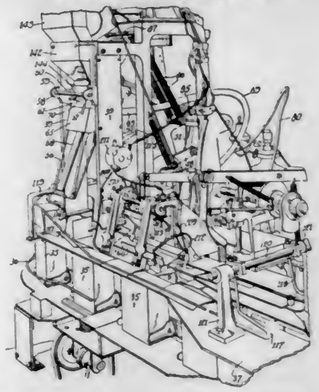
closure and to utilize compression in those cylinders in braking retardation of the vehicle's movement, and means to operate said cam interrupting means coincidentally to the operation of said brake system by said pedal, said operating means including a cam carried by said brake pedal.

2,156,561

METHOD AND APPARATUS FOR PACKAGING

Almon J. Cordrey and Melvin Wagner, Chicago, Ill., assignors to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware

Application February 10, 1938, Serial No. 189,834
50 Claims. (Cl. 93—6)



1. In a packaging machine, a filling station, means at said filling station for flushing out a bag with a gas other than air, means at said filling station for filling the bag with the material to be packaged, a sealing station, means for moving the bag from said filling station to said sealing station, means at said sealing station for sealing the mouth of the bag, a tucking station, means for moving the bag from the sealing station to the tucking station, means at said tucking station for pressing the central portion of the sealed bag mouth toward the bag, and means at said tucking station for tucking inwardly the end portions of the sealed bag mouth.

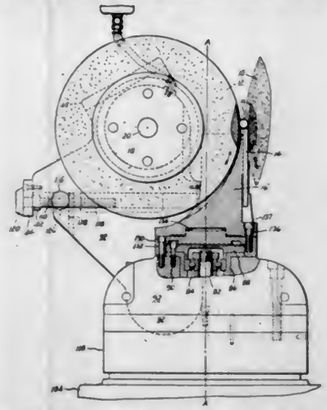
2,156,562

CENTERLESS GRINDING MACHINE

Raymond H. Cramer, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 23, 1936, Serial No. 81,498
44 Claims. (Cl. 51—103)

1. In a machine of the character described, a grinding wheel, a regulating wheel, a work support between the wheels, all of said parts being contoured to fit the contoured surface of a work-piece, means for causing a relative angular oscillation between the grinding wheel on the one hand and the regulating wheel and work support



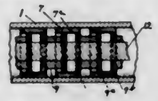
on the other, a work locating member near one end of the work supporting surface for locating a work-piece endwise, the other end of the work supporting surface being open, and means for causing a ground work-piece to be removed endwise through said open end of the work supporting surface; substantially as described.

2,156,563

SPACING APPARATUS

Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa

Application November 14, 1938, Serial No. 240,238
20 Claims. (Cl. 146—153)



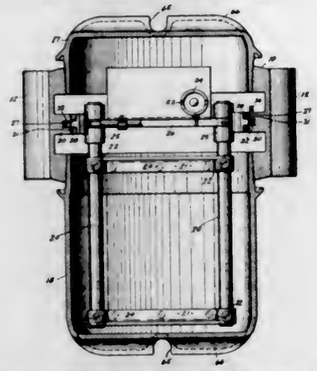
1. In a bread slicing machine, a rectangular blade-carrying frame having tubular upper and lower cross-members and having longitudinal slots formed therein united by sidebars, a plurality of supporting rings slidably mounted in said cross-members respectively in series, the innermost ring of each series being rigidly united to its cross-member, each of said rings having formed integral therewith an arm, which arms project through the corresponding slots, each of said rings having its internal periphery threaded for a portion of its length at one end with fine threads and the remainder of its internal periphery threaded with relatively coarse threads running in the same direction as the fine threads, a corresponding plurality of sleeves each having a section of its periphery at one end threaded with fine threads corresponding with the fine threads of the rings and a section of its periphery at the opposite end threaded with coarse threads corresponding to the coarse threads of the rings, each of said sleeves having its fine threads threaded into an adjacent ring and its coarse threads threaded into the coarse threads of the next succeeding ring, uniform non-circular bores formed in all of the sleeves, a rod corresponding in section to said bores slidably mounted in all the bores of the lower series of sleeves and a similar rod slidingly mounted in all the bores of the upper series of sleeves, and means to manually rotate said rods.

2,156,564

EXPLOSIONPROOF SWITCH HOUSING

Clarence A. Hardage, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York

Application October 12, 1936, Serial No. 105,199
9 Claims. (Cl. 200—168)



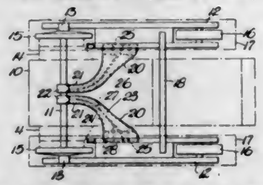
1. An explosionproof switch housing comprising a cylindrical body section formed with conduit receiving apertures, said body section being provided with an opening in one end thereof, a switch support insertable in the body section through said opening and being provided with a member movable into and out of engagement with the inner side of said body to detachably secure the switch support thereto, with the support extending axially of the body and outwardly through said opening, means operable to effect such movement of said movable member, and a tubular housing detachably secured to the body section and forming a closure for said opening therein, and enclosing said switch support.

2,156,565

TORQUE BRACE FOR TRACK TYPE TRACTORS

Edward A. Johnston, Chicago, Clifford R. Rogers, Oak Park, and William O. Bechman, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application July 17, 1937, Serial No. 154,222
17 Claims. (Cl. 305—9)



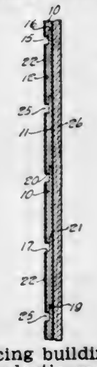
1. In a track type tractor having a main frame, a transverse axle carried thereby, and a track frame movably carried at each end of the axle at either side of the main frame, the combination with each track frame of a brace secured at one end to the track frame and extending diagonally inwardly and connected to the rear axle, said brace being formed substantially U-shaped in cross-section and tapering from its connection with the track frame to its connection with the axle, said brace including a substantially central reenforcing rib disposed therein and projecting toward the open side thereof, said rib extending substantially the length of the brace from the axle to the track frame.

2,156,566

BUILDING UNIT AND METHOD OF MANUFACTURE THEREOF

Lester Kirschbraun, New York, N. Y., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application April 16, 1935, Serial No. 16,557
3 Claims. (Cl. 20—5)



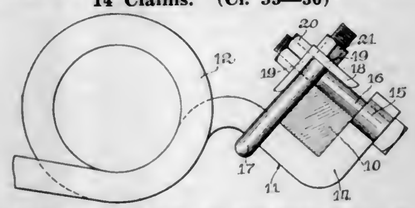
1. A weather facing building unit comprising a core of hardened plastic material including asphalt, fiber and hardening fillers, said core having an upwardly facing flange on one face thereof along one of its longitudinal edges and a downwardly facing flange on the opposite face thereof along its opposite longitudinal edge, the first named flange being of greater transverse dimension than said second named flange, a layer of asphalt saturated felt affixed to the first named face and adapted for exposure to the weather, one longitudinal edge of said layer terminating along the inner edge of said first named flange and the other longitudinal edge of said layer terminating along the outer edge of said second named flange, and a sheet of flexible material affixed to said opposite face.

2,156,567

TOOL BAR CONSTRUCTION

Sumner E. Lacey, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application December 6, 1937, Serial No. 178,211
14 Claims. (Cl. 55—36)



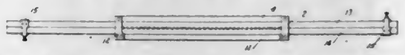
13. In combination, an implement tool bar, a ground engaging tooth having an end portion formed partly to embrace the bar, and a pair of angularly related bolts for securely clamping the tooth to the bar, one bolt passing through the tooth and the other embracing a portion of the tooth.

2,156,568

COMPUTING DEVICE

John W. Lee, Dayton, Ohio

Application June 7, 1937, Serial No. 146,759
2 Claims. (Cl. 235—70)



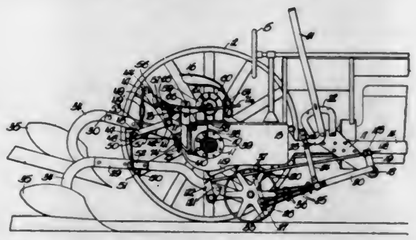
1. In a device of the character described, a normally stationary part comprising two members rigidly connected one to the other in spaced relation to provide a guideway between them and each having a series of graduations, and two members slidably mounted in said guideway for movement with relation one to the other and with relation to said stationary part and having on one side thereof cooperating series of graduations so arranged that a selected graduation on one slidable member may be moved into line with a selected graduation on the other slidable member to indicate a selected gear ratio, means beyond the end of said stationary part for rigidly securing said slidable members one to the other, each slidable member having on the other side thereof a second series of graduations to cooperate with the graduations on the adjacent stationary member, said second series of graduations being so arranged that the adjustment of said slidable members in unison with relation to said stationary members and with the first mentioned series of graduations on said slidable members in said selected positions will move graduations of the respective second series simultaneously into substantial alinement with graduations on said stationary members to indicate a gear combination determined by the relative adjustment of the first mentioned series of graduations on said slidable members.

2,156,569

PLOW ATTACHMENT FOR TRACTORS

Alexus C. Lindgren, Chicago, and James Morkovski, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application May 9, 1936, Serial No. 78,801
14 Claims. (Cl. 97—50)



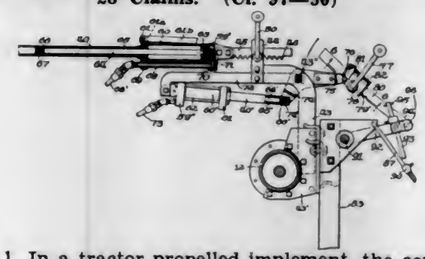
1. The combination with a motor propelled vehicle having a power lift mechanism actuated from the motor, of an implement attachment comprising a plurality of movable mounted implement gangs adapted for alternate movement, lifting means for connecting each of the implement gangs to the aforesaid power lift mechanism, said lifting means comprising lost-motion connections and latching means for latching the implement gangs in raised position, and locking means associated with the power lift mechanism whereby, after the implement gangs have been raised to transport position, the power lift mechanism may be actuated to lock the aforesaid latching means.

2,156,570

LIFT MECHANISM FOR TRACTOR ATTACHED IMPLEMENTS

Alexus C. Lindgren, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application July 3, 1937, Serial No. 151,803
28 Claims. (Cl. 97—50)



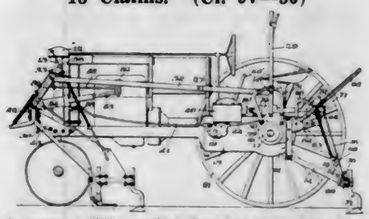
1. In a tractor propelled implement, the combination with a tractor of an implement connected to the tractor adjacent the front thereof for vertical movement with respect thereto, horizontally extensible push beam linkage having one member connected to the tractor adjacent the rear thereof and a second member telescopically related to the first member and connected to the implement adjacent the front of the tractor, power actuated means carried by the linkage for moving said telescopically related members relative to each other thereby altering the effective length of said linkage to move the implement in one direction, and auxiliary manually operated means for shifting the connecting point of the member at the rear of the tractor for adjusting the effective length of said linkage to thereby adjust the extreme up and down positions of the implement independently of the power actuated lifting means.

2,156,571

IMPLEMENT ATTACHMENT FOR TRACTORS

Alexus C. Lindgren, Chicago, and Carl W. Mott, Rock Falls, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application July 17, 1937, Serial No. 154,228
Renewed October 22, 1938
18 Claims. (Cl. 97—50)



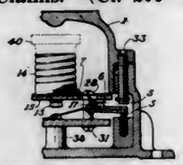
3. A power lift device for tractor attached implements comprising the combination with a tractor having a transverse tool support mounted at the forward end thereof and an implement pivotally connected to said support, of lifting means for said implement including an upwardly extending lever arm and a longitudinal link extending to the rear of the tractor, said link being movable fore and aft to lift the implement, a lifting lever pivoted on the tractor and positioned to engage the lever arm, a hydraulic cylinder pivotally supported on the tractor rearwardly of the transverse support, a piston rod extending from said cylinder and pivotally connected to the lifting arm, and means for supporting the rear end of the longitudinal lifting member.

2,156,572

ENCLOSED HOUSING FOR ELECTRICAL SWITCHES

Raymond H. Olley, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York

Application May 27, 1936, Serial No. 82,076
9 Claims. (Cl. 200—50)



1. The combination of an enclosed explosion resisting housing provided with an opening, a cover for said opening detachably secured to the housing in flame tight relation therewith, an electrical switch mounted within the housing, means carried by the cover and being operable to open and close the contacts of said switch, and means carried by the housing and operable from the outside thereof for operating said means carried by the cover and to prevent inoperativeness of the flame tight joint between the cover and the housing while said contacts are closed.

2,156,573

NOVELTY DOLL

Edward G. Schaeffer, Brooklyn, N. Y., assignor to American Character Doll Co., Inc., New York, N. Y., a corporation of New York

Application July 28, 1936, Serial No. 92,946
3 Claims. (Cl. 46—156)



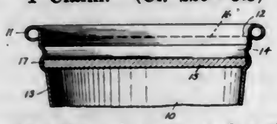
1. A doll body having body portions formed from relatively hard, pre-vulcanized rubber and other body portions joining the portions first mentioned formed of solid relatively soft resilient, flexible, vulcanized rubber, said resilient body portions being depressible by the application of external pressure but having an inherent resilient, flexible characteristic which operates to automatically return said portions to their original form when the external pressure has been released.

2,156,574

CUP

Max Sidon, Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York

Application September 25, 1936, Serial No. 102,549
1 Claim. (Cl. 229—5.5)



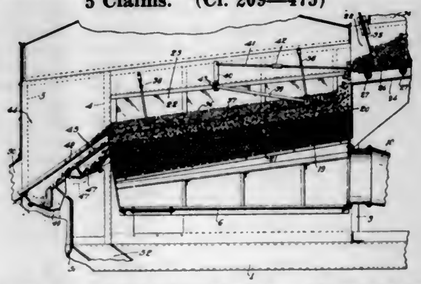
The combination of a cup and a closure disk for the open end thereof, said cup comprising a body portion provided with a suitable bottom closure, the open end of the body being formed cylindrical and extending parallel to the axis of the cup, an internal bead arranged at the base of said cylindrical portion to preliminarily receive the closure disk, said cylindrical portion acting as a guide to direct the closure disk in right-angular relation to the axis of the cup to said bead, an internal groove arranged immediately below said bead to receive the periphery of the closure disk and to detachably secure the same to the cup.

2,156,575

APPARATUS FOR GRAVITATIONALLY SEPARATING AND CLEANING COAL AND THE LIKE

Earl Stump, Chicago, Ill., assignor to Roberts and Schaefer Company, Chicago, Ill., a corporation of Illinois

Application September 22, 1937, Serial No. 165,130
5 Claims. (Cl. 209—475)



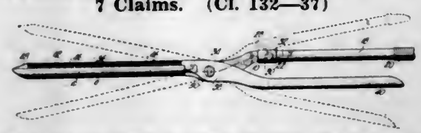
1. In a coal treating apparatus, a floor along which coal is adapted to travel, a distribution plate immersed in the stream of flowing coal, means for reciprocating said plate to agitate the coal as it travels along the floor to cause gravitational separation of the coal into generally horizontal strata, a chute at the discharge edge of the floor having a horizontal cutting edge presented to the oncoming current of coal, and means for imparting a vertical vibratory movement to said cutting edge, said last means comprising a connection between the said chute and plate whereby the cutting edge and plate move in unison.

2,156,576

HAIR CURLING IRON

Herman Wagner, Kansas City, Mo.

Application July 5, 1938, Serial No. 217,392
7 Claims. (Cl. 132—37)



7. A hair curling iron of the character described, comprising an elongated hollow member, longitudinally offset intermediate its ends; a second elongated hollow member, longitudinally offset intermediate its ends and crossing the first mentioned hollow member; means for pivotally joining the said hollow members at the point of intersection; a conduit in connection with the first mentioned hollow member for placing the same in communication with a source of hot air; and a valve in the last mentioned hollow member, for controlling the flow of air therethrough, the portions of said hollow members to one side of the pivotal connection serving as handles for the operator, the portion of the first mentioned hollow member to the other side of said pivotal connection having a transversely arched, perforated wall presenting a concave face, the portion of said second hollow member

to the other side of said pivotal connection being an elongated cylindrical element formed of foraminous material thereof, which may pass streams of air passing from the perforations in the said arched wall of the first mentioned member.

2,156,577

PROCESS OF SEPARATING MERCAPTANS CONTAINED IN A HYDROCARBON LIQUID

David Louis Yabroff, Berkeley, and Ellis R. White, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 8, 1937, Serial No. 124,688
9 Claims. (Cl. 196—30)

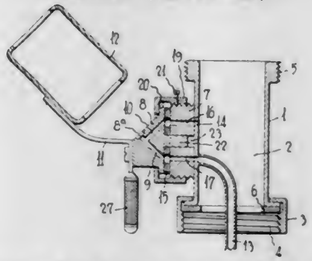
1. In the process of separating organic reacting substances contained in a water-insoluble neutral or basic organic liquid, the steps comprising treating said liquid with an aqueous solution of a strong base containing a substantial amount of a dissolved salt of an aliphatic amino carboxylic acid having from 4 to 7 carbon atoms, under conditions to absorb at least a portion of said acid reacting substances in said aqueous solution and to form two liquid layers, one comprising the aqueous solution containing acid reacting substances and the other consisting essentially of treated organic liquid, and separating the layers.

2,156,578

PREHEATER FOR LIQUID FUEL BURNERS FOR HEATING OR LIGHTING APPARATUS

Anton Andersen, Copenhagen, Denmark

Application September 28, 1937, Serial No. 166,165
In Germany August 31, 1936
4 Claims. (Cl. 158—81)



1. A device for atomizing liquid fuel comprising a first block element having ducts therein for the passage of air and fuel respectively, a second block element constituting a nozzle member having ducts therein for the passage respectively of air and fuel and adapted to be brought into registry with said ducts in said first block element, said block elements being positioned substantially face to face and said ducts in each element opening out on that face of their respective elements next adjacent the near face of the other element, one of said elements being mounted for relative adjustment about an axis common to both elements, and means for holding said elements toward each other while yet permitting said adjustment about an axis.

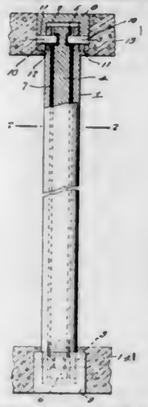
2,156,579

CELL BAR

Fred J. Bayon, Holyoke, Mass.

Application October 31, 1938, Serial No. 238,012
3 Claims. (Cl. 189—9)

1. A cell bar assembly comprising parallel headers of concrete, a pair of cap members imbedded in said headers, respectively, a tubular casing having the opposite ends thereof fixed in said cap members, respectively, a rod-like core in said casing extending from end to end of the lat-



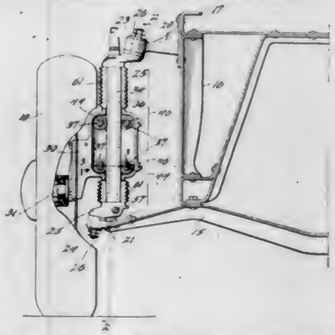
ter and spaced therefrom, and a sheathing comprising a helix of closely coiled steel wire sleeved on said core and fitting between the same and said casing, the core and sheathing being relatively rotatable and with respect to said casing.

2,156,580

MOTOR VEHICLE

Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application July 17, 1936, Serial No. 91,229
14 Claims. (Cl. 280—96.2)



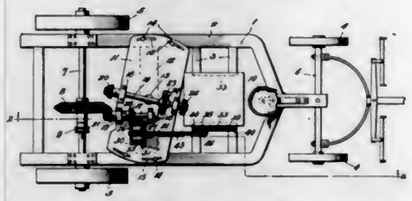
1. In a motor vehicle, the combination with the vehicle frame and steerable road wheels disposed at opposite sides thereof, of means supporting each of said wheels on said frame for rising and falling movement and for steering movement with respect thereto, said means including a member carrying the wheel, a member supported on said frame for swinging steering movement about an upstanding axis, and a connection between said members affording relative displacement thereof in a generally vertical direction and restraining relative horizontal displacement thereof, said connection including a plurality of rollers supported by one of said members, the other of said members being constructed to provide roller tracks in which said rollers are confined, each of said rollers and the cooperating track member being constructed to afford interlocking portions preventing relative movement thereof about the upstanding axis.

2,156,581

COMBINATION FARM MACHINE

Monterey Campbell, Sanford, N. C.

Application February 16, 1938, Serial No. 190,848
6 Claims. (Cl. 74—11)



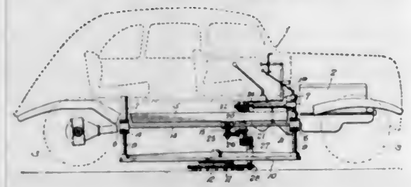
1. In a combination machine, a frame, a driving shaft rotatably carried by said frame, a gear carried by said drive shaft, a support shiftably carried by said frame, driven shafts rotatably carried by said support, gears carried by said driven shafts and disposed at opposite sides of the gear of the main shaft, means to releasably secure said support in a shifted position with a gear of a selected one of the driven shafts meshing with the gear of the main shaft, and means for transmitting motion from the selected driven shaft to an implement carried by said frame.

2,156,582

TURNING TABLE JACK FOR AUTOMOBILES

Alfonso Carlini, Dawson, N. Mex.

Application May 26, 1937, Serial No. 144,924
1 Claim. (Cl. 254—87)



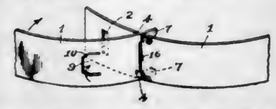
A carried jacking mechanism for motor vehicles comprising, a turntable, a pedestal rotatably mounted on the under side of said turntable, rectangularly disposed vertical feed stems supportingly attached at their lower ends to said turntable, means for supporting said stems on the vehicle frame with provision for relative vertical movement therebetween, said means including gears held against vertical movement relative to the vehicle and having operable connection with said stems whereby to effect longitudinal movement of the stems upon rotation of the gears, parallel shafts connected to said gears for rotating them in either direction, sprocket gears on said shafts connected by a common drive chain, a power shaft driven by the engine of the vehicle, a driving sprocket gear engaging said driving chain, a manually controlled reversible clutch mechanism for selectively connecting said power shaft to said driving sprocket gear, a vertical shaft journaled on said turntable and having a gear connection with the pedestal for effecting rotation of the turntable on the pedestal, a parallel driving shaft journaled on the vehicle frame and having compensating driving gear connection with said vertical shaft on the turntable whereby said shafts are rotatable together but one is movable endwise independently of the other, and a second power shaft driven by the engine of the vehicle and including a manually controlled reversible clutch mechanism driving said vertical driving shaft in either direction.

2,156,583

HOLDING AND SUPPORTING MEMBER

Merle P. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, South Portland, Maine, a corporation of Maine

Application May 20, 1937, Serial No. 143,763
4 Claims. (Cl. 24—17)



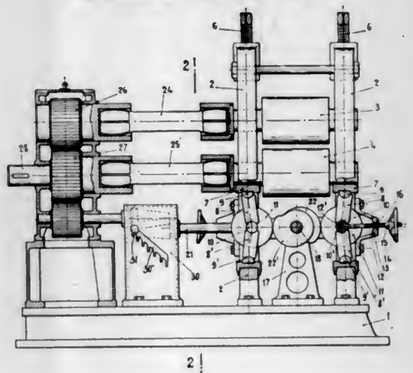
1. A strip of flexible sheet material to have its end portions overlapped and connected together to form a band, said strip having, near one end thereof, a narrow slot closed at its ends and extending transversely of the strip, said strip also having, near the same end thereof and farther inwardly from said end than said slot, a pair of slots alined transversely of the strip and opening through the opposite side edges thereof, respectively, a pair of tongues projecting from the other end of the strip and spaced apart transversely of the strip for insertion into said pair of slots, respectively, and a tongue struck from said strip near the second mentioned end thereof for insertion through said first mentioned slot and to be bent against the inner face of the strip when said pair of tongues are inserted into said pair of slots, thereby to hold the end portions of the strip overlapped and against movement relative to each other.

2,156,584

ROLL MILL

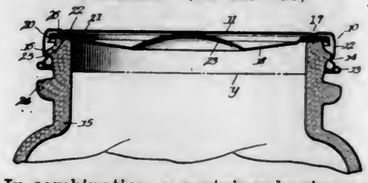
Francesco De Benedetti, Turin, Italy

Application April 15, 1937, Serial No. 137,131
In Italy April 18, 1936
8 Claims. (Cl. 80—56)



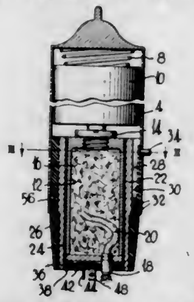
1. A roll mill for rolling articles having variable cross section along their extent comprising stands, a roll mounted for revolution about a normally stationary axis in said stands, a second roll, bearings for rotatably supporting said second roll, said bearings being movable in said stands for variable spacing intermediate said first and second rolls, toggle means supporting said bearings, cam means cooperating with said toggle means for their actuation and means for driving said rolls and said cam members.

2,156,585
CLOSURE AND CONTAINER
Edward M. Enkur, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application July 5, 1935, Serial No. 29,980
4 Claims. (Cl. 215—56)



1. In combination, a container having a mouth surrounded by a flat annular marginal surface having formed thereon a relatively narrow annular rib, a closure element overlying said mouth and said marginal surface, a gasket engaged between said closure element and said surface and affixed to the former, said rib entering the gasket a distance limited by the engagement of said gasket with said surface, and means for holding the closure element against unseating movement when a pressure below a certain limit exists in the container while enabling the closure element and gasket to lift under a pressure above said limit whereby to vent the excess pressure.

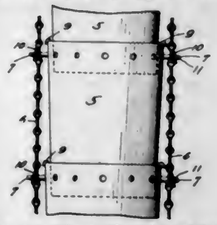
2,156,586
CIGARETTE LIGHTER
Irving Florman, New York, N. Y.
Application March 12, 1937, Serial No. 130,600
Renewed September 28, 1938
12 Claims. (Cl. 175—296)



1. A cigarette lighter comprising an elongated cylindrical casing having one end open, and lighting mechanism mounted in the open end of said casing, said lighting mechanism comprising a member having a fuel chamber therein and a wick extending from the free end thereof, a sleeve of conductive material surrounding said fuel chamber but insulated therefrom, means normally insulating said sleeve from the casing, and manually operable means to close a circuit between said sleeve and said casing.

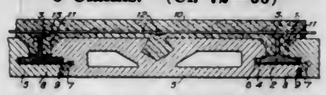
2,156,587
HANGER FOR FLEXIBLE LOADING SPOUTS
Ole J. Hatteberg, Elliott, Ill.
Application July 15, 1938, Serial No. 219,443
1 Claim. (Cl. 138—52)

In a delivery spout, a plurality of telescoping sections, each section having a circular line of spaced openings, hangers extending through certain of the openings, each hanger comprising a laterally extended arm adapted to be extended into links of supporting chains, an upstanding section forming a part of each hanger, and a hook member formed at the upper end of the upstanding section and adapted to fit over the



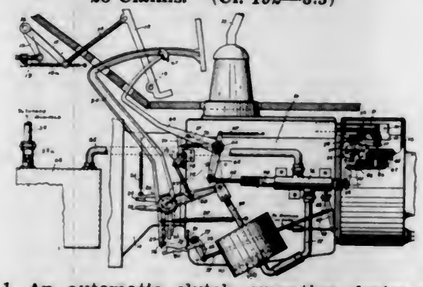
upper edge of a spout section to which the hanger is secured.

2,156,588
FLOOR CONSTRUCTION
Robert Hopewell, London, England
Application October 28, 1937, Serial No. 171,577
In Great Britain November 2, 1936
5 Claims. (Cl. 72—66)



1. In a floor, a pair of spaced parallel I-joists each including a web and a bottom flange, and a pre-cast filler block supported at its ends upon and spanning the space between said joists, said filler block having end portions resting upon the bottom flanges of the joists and a bottom portion extending below said joist flanges, end shoulders on said bottom portion substantially abutting the free edges of the joist bottom flanges, said filler block further having at least at one end thereof a recess opening through the related shoulder at a point below the portion of the shoulder which substantially abuts the free edge of the joist bottom flange, said recess being of a size to accommodate the related joist bottom flange during mounting of the filler block between the joists thus to facilitate such mounting.

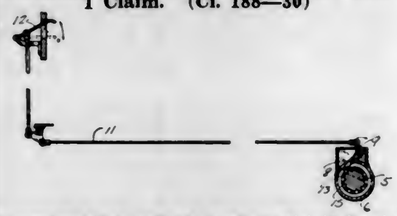
2,156,589
AUTOMATIC CLUTCH SYSTEM FOR MOTOR VEHICLES
Charles L. Hopkins, River Forest, Ill., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application November 17, 1932, Serial No. 643,031
Renewed February 7, 1936
28 Claims. (Cl. 192—3.5)



1. An automatic clutch operating device for motor vehicles having a self-closing clutch and a gear shift, comprising energy storage means adapted to open the clutch against its tendency to close, suction operated means adapted to hold the energy-storage means off the clutch and prevent it from opening the clutch, valve means for controlling said suction-operated means, and means interconnecting said valve means and said

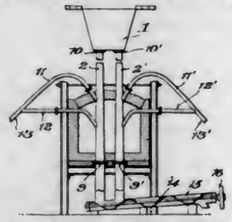
gear shift, whereby said suction-operated means is effective while the gear shift is in gear-engaging position and permits said energy-storage means to open the clutch when the gear shift is in neutral.

2,156,590
MEANS FOR PREVENTING RETROGRADE MOVEMENT OF A VEHICLE
Charles T. Humber, Oakland, Calif.
Application May 3, 1937, Serial No. 140,548
1 Claim. (Cl. 188—30)



In combination with a motor vehicle having a rotating axle, a portion of said axle being of greater diameter than the remainder of said axle, teeth formed in the enlarged portion of said axle, said teeth having a rounded contour, a pivoted dog mounted adjacent said axle, whereby the nose of said dog may engage the teeth of said axle, the nose of said dog being rounded to engage the rounded contour of said teeth, and remote means for actuating said dog.

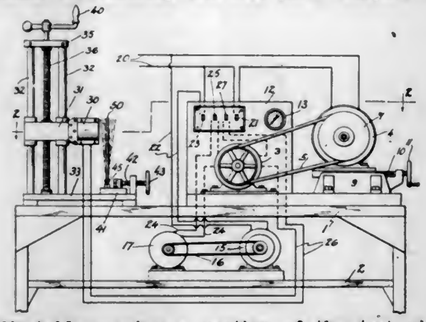
2,156,591
MANUFACTURE OF CARBURIZED SILICA
Carl Alfred Jacobson, Morgantown, W. Va., assignor to Sealco By-Products Company, Bluefield, W. Va., a corporation of West Virginia
Application June 29, 1936, Serial No. 88,021
5 Claims. (Cl. 196—50)



1. A process for preparing a soft uniformly colored and textured carburized silica product which comprises intimately mixing coal tar with finely divided diatomaceous earth in the proportions of from about 50 to 100 parts of tar to 100 parts of diatomaceous earth, passing the mixture continuously through a reaction zone in the absence of air while controlling the temperature and time of passage through said reaction zone in such manner as to destructively distill the coal tar while carbonizing the residual tar, recovering condensates from the volatiles derived from said process and also recovering the carburized silica product.

2,156,592
MAGNETIC TESTING APPARATUS
David R. Knox, Detroit, Mich., assignor to Bundy Tubing Company, Detroit, Mich., a corporation of Michigan
Application December 14, 1936, Serial No. 115,875
3 Claims. (Cl. 73—51)

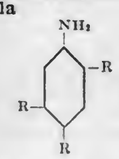
1. An apparatus for testing material from the standpoint of fatigue or endurance limit or the like which comprises, an electromagnet, supporting means for the magnet upon which the same is shiftable, means for shifting the magnet on the supporting means, a support for a test piece, means for shifting the test piece support for



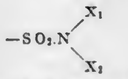
adjustably moving a portion of the test piece toward and away from the magnet, and means for impressing a discontinuous electrical current on the magnet whereby to continuously set up and break down magnetic flux for vibrating the test piece.

2,156,593
MONOAZO-DYESTUFFS AND A PROCESS FOR THEIR MANUFACTURE
Adolf Krebser, Riehen, near Basel, Switzerland, assignor to the firm of J. R. Geigy S. A., Basel, Switzerland
No Drawing. Application February 18, 1937, Serial No. 126,524. In Switzerland March 5, 1936
12 Claims. (Cl. 260—198)

1. A process of preparing monoazo-dyestuffs, which consists in coupling a 2-acylamino-5-hydroxynaphthalene-1,7-disulphonic acid, in which acyl represents a radical selected from the group consisting of alkoyl, aroyl, aralkoyl and arylsulphonyl, with a diazo-compound of an amine of the general formula



in which R represents a member of the group consisting of H, O-aralkyl and O-aryl, at least one and at most two members being different from H, including amines further substituted in the nucleus by substituents selected from the group consisting of alkyl, halogen, alkoylamino, aroylamino, aralkoylamino groups, sulphonic acid groups and sulphonic acid amide groups, of the formula

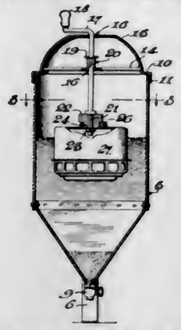


X_1 and X_2 being members selected from the group consisting of H, lower alkyl, benzyl and aryl radicals of the benzene series.

2,156,594
AIR FILTER WASHER
Charles Lester, Ironton, Ohio
Application August 31, 1937, Serial No. 161,840
3 Claims. (Cl. 141—1)

1. In an air filter cleaning apparatus, an up-

right open topped container adapted to contain a bath of cleaning fluid, a removable cover for the container, means providing spaced bearings on said cover, a crank shaft vertically disposed and rotatably and reciprocably mounted in said bearings, an abutment on said shaft, spring



means engageable with one of the bearings and said abutment for normally holding the shaft elevated, and an air filter driving chuck removably carried at the lower extremity of said shaft and having provision for removable attachment with an air filter unit.

2,156,595

METHOD FOR MANUFACTURING CALCIUM ARSENATE

Axel Rudolf Lindblad, Stockholm, and Anders Gustav Paul Palén, Saltsjobaden, Sweden, assignors to Bolidens Gruvaktiebolag, Stockholm, Sweden, a joint-stock company of Sweden

No Drawing. Application November 18, 1937, Serial No. 175,340. In Sweden September 9, 1937

1 Claim. (Cl. 23—53)

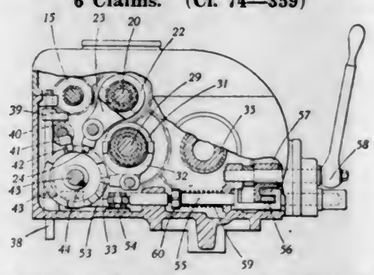
The method of preparing calcium arsenate comprising the step of heating a substantially dry mixture of arsenic trioxide, calcium nitrate and calcium oxide.

2,156,596

MEANS FOR DRIVING THE SHAFTS OF MACHINE TOOLS AT DIFFERENT SPEEDS

Arthur Harold Lloyd, Coventry, England, assignor to Alfred Herbert Limited, Coventry, England

Application November 18, 1936, Serial No. 111,542
In Great Britain December 4, 1935
6 Claims. (Cl. 74—359)



1. In a machine-tool, a preselective change-speed mechanism having selector and main controls, a variable-speed motor, actuating stems through the movements of which the "speeds" of said gearing and motor can be altered, and a pair of profile devices co-acting with said actuating stems, said profile devices being movable by the rotation of said selector control for setting purposes and being subsequently movable by said main control to operate said actuating stems for the gearing and motor to introduce a different motor or gearing "speed", or both, according to the setting of said selector control.

2,156,597

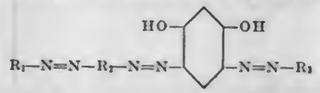
POLYAZO DYESTUFFS

Bertram Mayer and Ernst Alfred Henzi, Basel, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application December 28, 1936, Serial No. 117,969. In Switzerland January 9, 1936

7 Claims. (Cl. 260—158)

1. The polyazo-dyestuffs of the general formula



in which R_1 stands for a radical selected from the group consisting of aromatic radicals of the benzene and naphthalene series, R_2 stands for an aromatic nucleus selected from the group consisting of aromatic nuclei of the benzene and naphthalene series, the azo-groups being linked to this aromatic nucleus in the 1- and 4-position, and R_3 stands for the radical of primuline, in which further at least one of the two radicals R_1 and R_2 contains at least one sulfonic acid group, the radicals R_1 and R_2 being otherwise unsubstituted, which products are dark powders dissolving in water to brown solutions and in sulfuric acid to red-violet to green and grey-green solutions, and dye cotton, viscose rayon, and leather brown tints, and which dyestuffs, when being dyed on union fabrics consisting of cotton and acetate artificial silk, leave the latter fiber undyed.

2,156,598

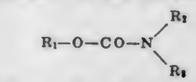
ACYLOXY MERCURY URETHANES

Karl Miescher, Riehen, and Karl Hoffmann, Basel, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application October 12, 1935, Serial No. 44,800. In Switzerland November 3, 1934

6 Claims. (Cl. 260—431)

1. The urethanes of the formula



wherein R_1 stands for a lower alkyl radical, and R_2 and R_3 stand for lower alkyl radicals which are substituted by the group acyloxy-Hg-.

2,156,599

ESTRADIOL ESTERS ESTERIFIED IN 3-POSITION AND PROCESS OF MAKING SAME

Karl Miescher, Riehen, and Caesar Scholz, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application October 7, 1937, Serial No. 167,865. In Switzerland November 20, 1936

11 Claims. (Cl. 260—397)

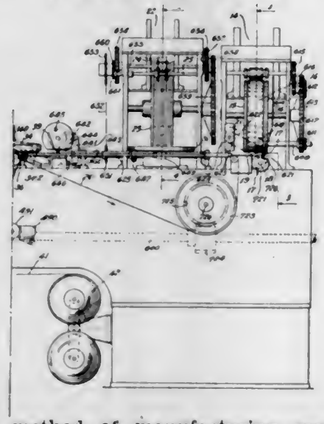
1. A process for the manufacture of compounds of the type of estradiol esterified in 3-position, consisting in treating a corresponding ester of the type of estrone with catalytically activated hydrogen in an aliphatic ester of low boiling point as solvent.

2,156,600

MANUFACTURE OF CIGARETTES

Walter Everett Molins, Deptford, London, England; Harold Bernardo Molins and Moses Hymen Isaacs, executors of said Walter Everett Molins, deceased, assignors to Molins Machine Company Limited, London, England

Application September 14, 1934, Serial No. 744,053
In Great Britain September 21, 1933
66 Claims. (Cl. 131—39)



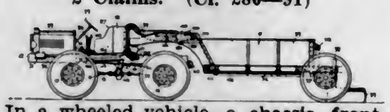
3. A method of manufacturing mouthpiece cigarettes which comprises feeding two spaced cigarette rod sections of twice normal cigarette length and an intermediate stub section of double length in substantial axial alignment in a generally axial direction, concurrently applying and securing a wrapper to said sections to unite the same, and thereafter severing said wrapper and stub section intermediate the ends of the latter and severing said cigarette sections substantially mid-way between the ends of the latter.

2,156,601

SIX WHEELED VEHICLE

Bernhard A. Mosling and Clinton E. Sartwell, Oshkosh, Wis.

Application February 27, 1937, Serial No. 128,242
2 Claims. (Cl. 280—91)



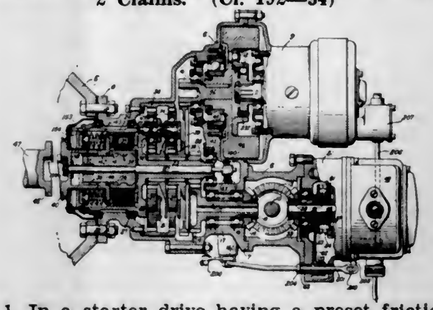
1. In a wheeled vehicle, a chassis, front and rear axles associated therewith, a wheel at each end of said axles, a depending bracket carried by one of the side bars of the chassis midway between the front and rear axle, each said wheel being mounted relative to its axle for steering movement, a crank lever fulcrumed intermediate its ends on said bracket, an actuator rod having pivotal connection with said lever at one side of its fulcrum and with a steering element of one wheel, an actuator rod having pivotal connection with said lever on the opposite side of its fulcrum and with a steering element of another of the vehicle wheels, steering means carried forwardly of the vehicle beyond the front axle, a link operatively connecting said steering means and said crank lever at one end of the lever for rocking the same on its pivot whereby to move said wheels simultaneously through oppositely directed identical arcs, and tie-rods extending transversely of the chassis between transversely aligned pairs of the wheels for moving the pairs in unison.

2,156,602

ENGINE STARTING MECHANISM

Romeo M. Nardone, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application April 22, 1935, Serial No. 17,710
2 Claims. (Cl. 192—54)



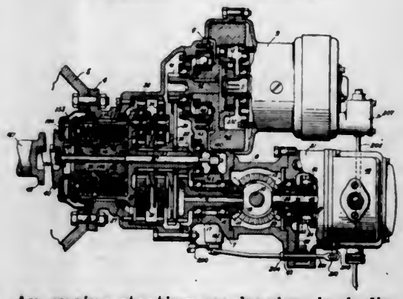
1. In a starter drive having a preset friction clutch controlling the amount of torque transferable to the part to be driven, means for regulating the clutch setting comprising a set of clutch engaging springs, a threaded element having splined engagement with a part of said clutch, a thrust element for transmitting the thrust of said springs to the clutch, and a second threaded element coacting with the first to vary the effectiveness of said thrust element with respect to said clutch.

2,156,603

ENGINE STARTING MECHANISM

Romeo M. Nardone, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

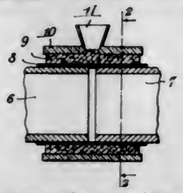
Original application April 22, 1935, Serial No. 17,710. Divided and this application June 2, 1938, Serial No. 211,455
6 Claims. (Cl. 123—179)



1. An engine starting mechanism including an engine engaging member, a mesh rod controlling movement of said engine engaging member to engine engaging position, an electric motor adapted to develop the energy for cranking the engine through said engine engaging member, a switch controlling energization of said motor, a magneto operating clutch, and means for closing said

switch prior to any movement whatever of said magneto operating clutch, said means comprising a switch actuating rod having telescopic engagement with said mesh rod, and common actuating means for both said rods.

2,156,604
PIPE JOINT
Claron R. Payne, Allentown, and George L. Wirtz, Monterey, Pa., assignors to The Atlas Mineral Products Company, Mertztown, Pa., a corporation of Pennsylvania
Application October 16, 1937, Serial No. 169,480
2 Claims. (Cl. 285—114)



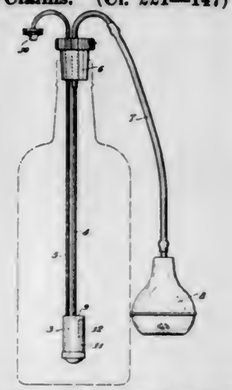
1. In a pipe joint, the combination with the ends of pipe sections, of a sleeve of relatively heavy rubber enclosing and connecting said ends to seal the joint thereof against leakage and to permit a degree of flexibility in the joint, said sleeve possessing a substantial degree of compressibility, and a ring of bonding material embracing said sleeve and containing root repellent ingredients, said material possessing the characteristics of contracting when becoming set to compress said sleeve tightly upon said pipe sections.

2,156,605
NONRECOIL GUN
George William Lyman Prettyman, Arlington, Va.
Application September 17, 1934, Serial No. 744,443
Renewed September 24, 1938
1 Claim. (Cl. 89—1)



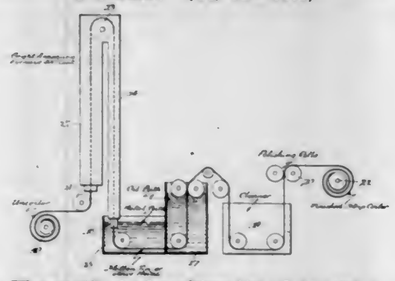
A projecting device comprising a cylindrical container open from end to end and having a bore and a counter bore, a projectile in the bore of the container, a friction mass of comminuted material in said counter bore spaced from the projectile, a propellant powder charge between said projectile and counter mass, a second counter mass of comminuted friction material in the counter bore spaced from the first mentioned counter mass and being of smaller volume than the first mentioned counter mass, a second propellant powder charge between the two counter masses and being of smaller volume than the first mentioned powder charge, a third counter mass of comminuted friction material in the counter bore spaced from the second counter mass, a third powder charge between said second and third counter masses, a primer tube extending through the counter bore and through the first and second counter masses and through the second propellant powder charge with its open ends communicating with the first and third propellant powder charge, said tube having openings communicating with the second propellant powder charge, a primer powder in said tube, and means for igniting said primer powder, the combined volume of the three counter masses being of less weight than the projectile, said counter mass material having a higher coefficient of friction with the walls of the container than the coefficient of friction of the projectile with the walls of the container.

2,156,606
DEVICE FOR DELIVERING A MEASURED QUANTITY OF LIQUID FROM A BOTTLE OR LIKE CONTAINER
Thomas Henry Robertshaw, Cardiff, Wales
Application August 12, 1938, Serial No. 224,613
In Great Britain November 26, 1937
3 Claims. (Cl. 221—147)



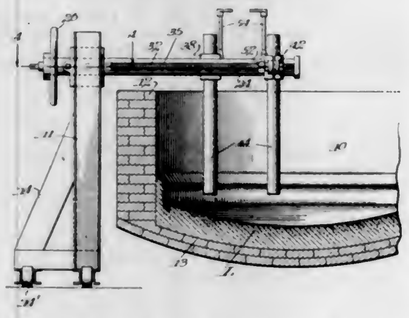
1. A device for dispensing a measured quantity of liquid from a bottle or like container, comprising a stopper for the bottle, air injecting and liquid discharge tubes, carried by said stopper, a receiving vessel suspended from the ends of said tubes, an intake tube within said vessel constituting the liquid admission passage therefor, a cap including a tubular portion and normally seating under its own weight upon the upper extremity of said intake tube to form a non-return valve, the tubular portion of said cap being of larger diameter than the intake tube to permit admission of liquid into the receiving vessel when said cap is raised, and an air pressure bulb in piped relation to said air injecting tube.

2,156,607
HOT METAL COATING PROCESS
Matthew Schon, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application September 18, 1936, Serial No. 101,525
3 Claims. (Cl. 91—70.3)



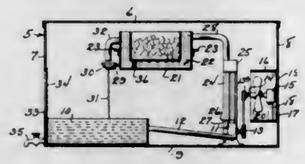
1. The method of making tin plate which consists in annealing black plate in a reducing atmosphere, cooling the same in a reducing atmosphere, and then without permitting the plate to be exposed to oxidizing influences, directly introducing the plate into a tinning bath, and coating the same with tin.

2,156,608
REFRACTORY AND METHOD OF MAKING SAME
Matthew Schon and Harold C. Be Ment, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application March 25, 1937, Serial No. 133,079
8 Claims. (Cl. 13—36)



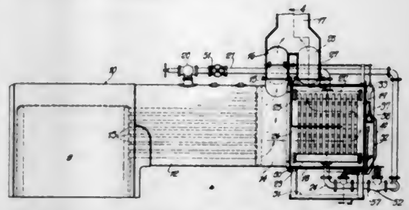
1. A refractory lining comprising superposed layers of fused and hardened refractory material fused together and each layer increasing in fusing point from the base of the lining to the surface thereof.

2,156,609
AIR CONDITIONING APPARATUS
Frank C. Seeger, Wauwatosa, Wis.
Application May 2, 1938, Serial No. 205,579
2 Claims. (Cl. 62—131)



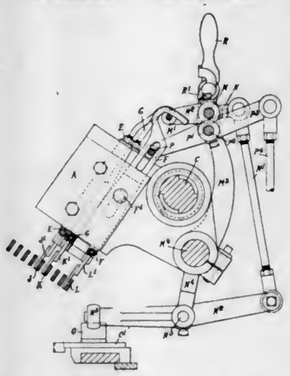
1. A device of the character described, comprising, a housing, an ice tank arranged within the upper portion of said housing and fashioned with a water jacket, said housing fashioned with an air inlet conduit at one end and with a discharge opening at the other end, a water tank within said housing subjacent said ice tank, a pump connected to said water tank, a radiator arranged in front of said air inlet conduit and connected to said water jacket and said pump, a fan and a driving motor therefor arranged within said air inlet conduit for circulating air through said radiator and said motor operating said pump, a trough connected to said water jacket, means communicating with said water jacket for discharging water in said trough, and a screen suspended from said trough for receiving water discharged from said trough in a manner whereby the air circulated through said radiator is circulated through said screen for discharge through said outlet opening.

2,156,610
BOILER
John M. Shimer, Dallas, Tex., assignor to Oil Well Supply Company, Dallas, Tex., a corporation of New Jersey
Application November 16, 1936, Serial No. 111,149
5 Claims. (Cl. 122—479)



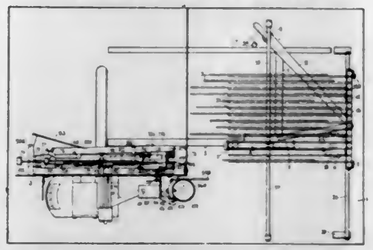
2. A locomotive type fire tube boiler having a smoke box, a superheater chamber extending from said smoke box, superheater tubes in said superheater chamber, exhaust flues and dampers therein from said smoke box and said superheater chamber respectively, means controlled thermostatically by steam from said superheater tubes to position the said dampers to definite positions for each temperature of said steam, said means comprising a steam cylinder and piston, a valve for controlling the admission of steam to opposite sides of said cylinder and piston, a valve having a valve stem, a lever pivoted between said valve stem and said piston and a thermostatically actuated rod pivotally connected to said lever between said valve stem and said piston.

2,156,611
STRAIGHT-BAR KNITTING MACHINE
Harry Wilfred Start, Carlton, and Ernest Start, Wilford, England
Application June 11, 1938, Serial No. 213,252
In Great Britain December 21, 1936
3 Claims. (Cl. 66—128)



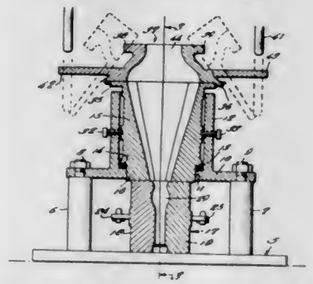
1. In a straight-bar knitting machine having traversing boxes for carrying the stops controlling the movements of the thread carrier bars, the combination with each of the traversing boxes of a lever stop provided with four or more stepped striking faces, a second stop provided with two striking faces, thread carrier bars, tappets on the thread carrier bars, means for raising and lowering the stops and means for angularly adjusting each of the lever stops in order to adjust its several striking faces in the path of a tappet on a thread carrier bar, substantially as described.

2,156,612
AUTOMATIC GRAMOPHONE AND THE LIKE RECORD-PLAYING DEVICE
Robert Wilkinson, Cheadle Hulme, England
Application September 23, 1936, Serial No. 102,239
In Great Britain September 26, 1935
10 Claims. (Cl. 274—10)



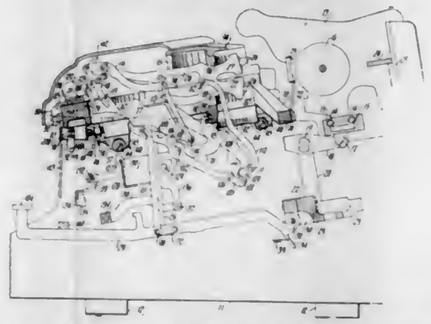
2. An automatic gramophone record playing machine including in combination a record magazine, a record turntable, a carrier for transferring records to and fro between said turntable and said magazine, a tone-arm cooperating with a record on the turntable, means for displacing said magazine relatively to said carrier for the positioning of individual records in said magazine relative to the arm, means for displacing said carrier to and fro in a plane parallel to the record turntable to transfer records from the magazine to the turntable, operating means for displacing the tone-arm radially of the record, a main driving shaft, a rotary crank driven from said shaft, a pair of countershafts in constant driving connection with said main shaft, cranks on each of said countershafts, clutch means between said cranks and said countershafts, means for effecting operation of only one of said clutch means at a time, linkage connected to said three cranks disposed in a plane parallel to said cranks and at right angles to the plane of the turntable for coupling said cranks to the magazine displacing means to the carrier displacing means, and to the tone-arm displacing means respectively, a telescopic joint in one of said linkages, and springs taking up lost motion in said telescopic joint to allow dwell of one linkage whilst another is moving.

2,156,613
MEANS AND METHOD FOR MAKING GLASSWARE
Louie Wohlnc, Weston, W. Va.
Application March 17, 1937, Serial No. 131,512
3 Claims. (Cl. 49—18)



1. A method of making in one piece stemmed glassware having a body portion of irregular shape, said method comprising selecting a mould having the desired shape for the bowl portion and rotatably mounting the same, providing sectional moulds for the stem communicating with the bowl mould, obtaining a sufficient quantity of molten glass on a blow pipe and forming an elongation on the free end thereof, inserting the glass within the moulds, the elongated portion thereof being received in the stem mould and the other portion in the bowl mould, freely rotating the blow pipe and forming the stem and simultaneously freely rotating the bowl mould by the contacting of the glass therewith, and subsequently blowing the bowl portion of the glass in the bowl mould.

2,156,614
TYPEWRITING MACHINE
Harry C. Yaeger, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application April 19, 1937, Serial No. 137,702
43 Claims. (Cl. 197—149)



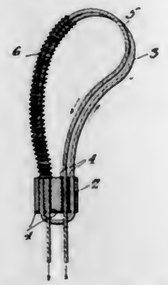
1. In a typewriter, a frame, a platen mounted for transverse movement on the frame, a type-system including type-carriers that slide rearwards and forwards towards and away from the platen, and a support for the type-system slidably mounted in the frame and liftable perpendicularly from the frame of the typewriter as a unit with the type-system.

2,156,615
SLIDING ROOF FOR VEHICLES
William Henry Bishop, Birmingham, England
Application December 4, 1936, Serial No. 114,174
In Great Britain December 14, 1935
9 Claims. (Cl. 296—137)



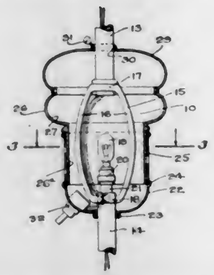
1. A sliding roof for vehicles comprising an opening in one part of the roof, a fixed canopy over the other part of the roof, a substantially rigid, longitudinally slidable panel for covering the opening and adapted when opened to slide under the fixed canopy, movable members mounted on the panel adjacent to one end, fixed abutments adjacent one end of the opening with which abutments said members co-operate when the panel is in the closed position, and handle-actuated means for changing the position of said movable members relative to the panel and thereby forcing said members vertically against said abutments to raise the end of the panel carrying the members into a position substantially flush with the fixed canopy.

2,156,616
SHACKLE SEAL
Winfred M. Brooks, West Orange, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application January 27, 1938, Serial No. 187,108
2 Claims. (Cl. 292—309)



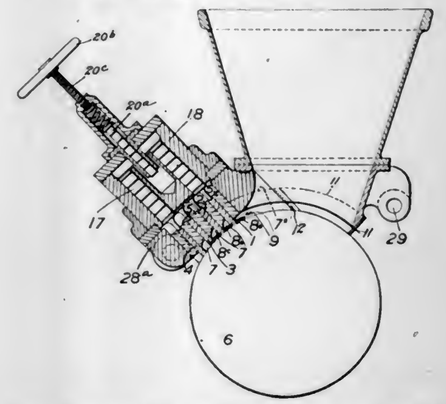
2. The combination of a shackle of flexible material anchored in and threaded through a seal, the loop of which shackle is to be tightened around a member to be sealed by pulling said shackle through the seal; a flexible member surrounding and slidably receiving said shackle; and a seal, in which the shackle is anchored and through which it is slidable to tighten the loop of the shackle around the object to be sealed, said seal acting as an abutment for said member to cause it to be flexed into curved form when the loop of the shackle is tightened.

2,156,617
LAMP
Paul C. Calissi, Philadelphia, Pa.
Application December 23, 1938, Serial No. 247,310
4 Claims. (Cl. 240—81)



1. A lamp comprising, in combination, a vertically extending standard formed of vertically spaced sections, a connecting element interposed between said sections for securing the same together in vertical alignment, a lamp enclosure mounted upon said standard and embracing the space between said sections and said connecting element disposed therebetween, said enclosure including a pair of separable opaque parts and an intermediate light transmissible part, one of said opaque parts being immovably secured to one of said standard sections and the other of said opaque parts being movable axially along the other of said standard sections, said opaque parts being adapted to secure in position therebetween said light transmissible part, and a pilot bulb positioned in the space formed between said vertically spaced sections of the standard.

2,156,618
ROLLER AND BREAST GRINDING MILL
Charles Carruthers, Bath, England
Application November 7, 1936, Serial No. 109,653
In Great Britain January 29, 1936
6 Claims. (Cl. 83—22)

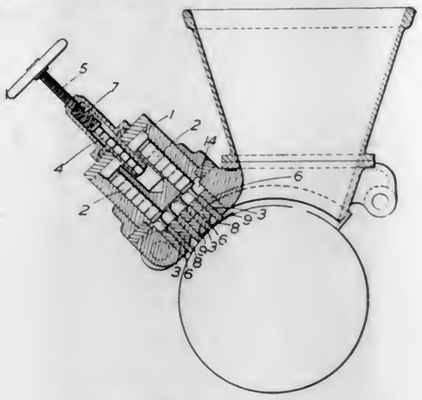


1. A multi-stage roller and breast mill for treating fluid material containing particles to be wetted by intimate mixing therewith, comprising a grinding roll; at least three axially disposed grinding bars normally maintained in grinding relation with said roll, a hopper overlying said roll and disposed to feed fluid material to said grinding bars, each of said bars except the first bar in the direction of rotation of the roll having a longitudinally co-extensive material receiving pocket provided at the hopper side thereof; seals abutting the ends of said bars for retaining in said pockets material undergoing treatment; at least one of said seals having restricted passages communicating with the pockets for bleeding material out of the pockets thereby to maintain a relatively high predetermined maximum pressure therein, said high pressure assisting in the forcing of the material past the grinding bars and to produce a strong eddying or mixing effect on the material in the pockets for facilitating the wetting process.

2,156,619
ROLLER AND BREAST BAR MILL
Charles Carruthers and John Rowland Torrance, Bath, England
Application November 7, 1936, Serial No. 109,654
In Great Britain February 22, 1936
1 Claim. (Cl. 83—22)

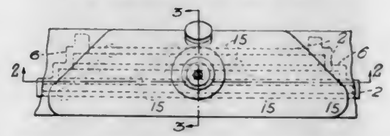
A multi-bar roller and breast mill for grinding fluid materials combining a grinding roll; a plurality of grinding bars axially cooperating therewith; means defining a fluid pressure chamber mounted above said bars, said chamber containing fluid under pressure; piston means extending between each of said bars and said chamber and having their upper ends exposed to the pressure in said chamber for urging the individual bars into grinding relation with said roll; at least certain of said piston means having upper ends of different effective areas whereby the respective bars actuated thereby are urged toward the roll with different pressures in response to the unit pressure of the fluid in said chamber; whereby the relative pressures exerted by all of the bars on the roll is maintained at a predetermined invariable ratio; and means for varying the absolute pressure in said chamber thereby to vary

the unit pressure acting on said piston means and hence the aggregate pressure of the bars on



said roll while maintaining the ratio of pressures on the respective bars constant.

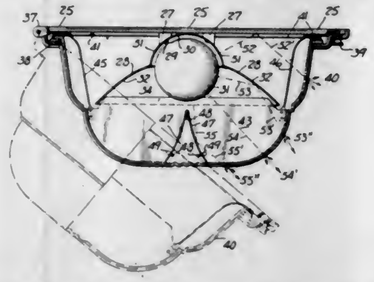
2,156,620
ROLLER GRINDING MILL
Charles Carruthers, Bath, England
Application November 7, 1936, Serial No. 109,655
In Great Britain January 29, 1936
6 Claims. (Cl. 83—22)



1. A multi-stage grinding roller mill for grinding fluid materials comprising a rotatable roll; a grinding bar cooperating therewith extending in the direction of the length of the roll; a second grinding bar following said first grinding bar in the direction of rotation of the roll and of greater length than the said first grinding bar so that the material which has passed through the ends of one grinding bar is free to spread and be treated by a greater length of bar in the next stage of grinding; and end seals engaging the roll and abutting the ends of said bars.

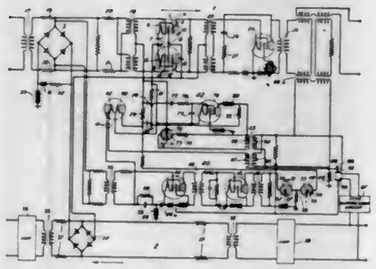
2,156,621
VEHICLE LIGHTING FIXTURE
Leroy C. Doane, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application May 3, 1937, Serial No. 140,419
13 Claims. (Cl. 240—7.35)

1. A luminaire for railway car lighting comprising a light source, an elongated diffusing bowl below the light source and having a generally rectangular shaped bottom area and upwardly extending side walls each adapted for directional transmission of light and for concealing interior structures, an elongated reflector above the source and having its side walls extending substantially to the top of the highly translucent side walls of the bowl for directing light toward said bottom area and side walls wtih controlled spread transversely, the reflector having end walls to intercept high angled longitudinally directed light rays and reflect them toward the bottom of the bowl, transverse screens between the bottom of the bowl and the bottom edges of the end walls of the reflector for screening the ends of the bowl, and



means to support the transverse screens independently of the bowl so that they remain in position when the bowl is lowered, said means including springs compressed when the bowl is in position so as to prevent rattling.

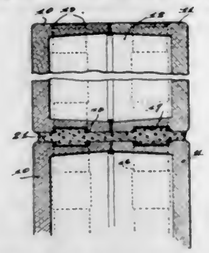
2,156,622
SIGNAL TRANSMISSION SYSTEM
Stephen Doba, Jr., Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1937, Serial No. 174,948
17 Claims. (Cl. 178—44)



1. In a signal system, a transmission channel, a bridge composed of solid elements with nonlinear voltage current characteristics and having two opposite vertices connected across said channel, a space discharge device effectively connected in series with said channel, the bridge and said device serving to control the gain on said channel, and means operated according to the energy level of the signals on the channel for jointly controlling said bridge and said device to effect different relative changes in gain by the bridge and the device at different points of the operating range of the bridge and the device and to maintain constant volume on the channel beyond the bridge and the device.

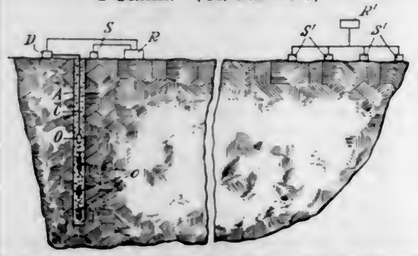
2,156,623
GLASS BUILDING BLOCK
Harold L. Eastus, Muncie, Ind., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application June 29, 1937, Serial No. 150,976
8 Claims. (Cl. 72—42)

1. A glass block of substantially rectangular formation having at least one side thereof designed for union in a mortar joint, said side being provided with a pocket therein into which mortar is adapted to be forced when compressed



between adjacent blocks in a masonry construction.

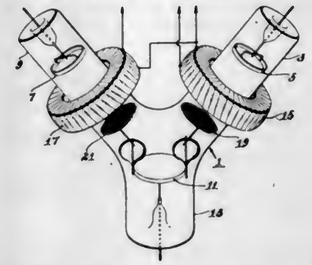
2,156,624
SUBSURFACE SEISMIC SURVEYING
Lawrence Y. Faust, Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y., a corporation of New Jersey
Application January 18, 1938, Serial No. 185,495
1 Claim. (Cl. 181—0.5)



In the method of seismic surveying by correlation of reflection records produced by detonation of explosive charges in bore holes in an area characterized by a surface layer of such nature that a charge detonated at some depth or depths in the bore hole produces a seismic record which is not correlatable with records obtained by detonating charges in other similar bore holes in that area, the procedure which consists in making a time-depth graph of the material traversed by a test shot hole, determining the depth in said test shot hole at which an explosive charge produces a high quality reflection wave record, establishing the corresponding point on said test hole time-depth graph, making a time depth graph of a second shot hole, selecting the point on said second shot hole time-depth graph having the same travel time as said point on said test hole time-depth graph, detonating an explosive charge in said second shot hole at the depth corresponding to said point on said second shot hole time-depth graph and making a reflection record of the seismic waves thus produced.

2,156,625
ELECTRIC DISCHARGE DEVICE
Leslie E. Flory, Oaklyn, and George A. Morton, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 30, 1935, Serial No. 13,806
4 Claims. (Cl. 250—166)

1. An electric discharge device including an evacuated envelope, an electron source, a secondary emitter electrode and a collector electrode mounted in the order named within said envelope, said emitter electrode being accessible to electrons from said source and said collector electrode being accessible to secondary electrons from said emitter electrode, an accelerating electrode mounted in the path of the electrons intermediate said source and said collector electrode and means whereby an electromagnetic electron-lens

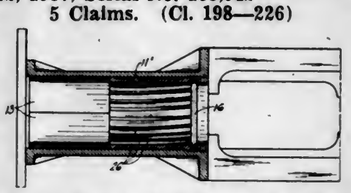


may be established in the path of the electrons which are subject to the influence of said accelerating electrode whereby said electrons may be concentrated and brought to foci on the electrode toward which they are directed.

2,156,626
PHOTOGRAPHIC DEVELOPING MEDIUM PRODUCING FINE GRAIN RESULTS
Garnet P. Ham, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 16, 1938, Serial No. 196,157
10 Claims. (Cl. 95—88)

1. A photographic developer comprising an aqueous dispersion containing unoxidized metal a colloidal silver halide and a protective colloid.

2,156,627
MATERIAL FEEDING MECHANISM
Clifford E. Harrison, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application January 16, 1935, Serial No. 2,034, now Patent 2,100,741, dated November 30, 1937. Divided and this application September 22, 1937, Serial No. 165,042
5 Claims. (Cl. 198—226)

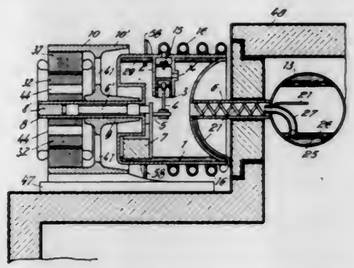


1. A ram cylinder of the class described, having an annular ram engaging surface provided with longitudinally disposed indentations, said indentations forming a series of irregularities in the said ram engaging surface whereby contact with the ram adapted to operate in said cylinder is made only at spaced points.

2,156,628
COMPRESSION REFRIGERATING APPARATUS
Rudolf Hintze, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany
Application April 30, 1937, Serial No. 139,889
In Germany April 30, 1936
23 Claims. (Cl. 62—115)

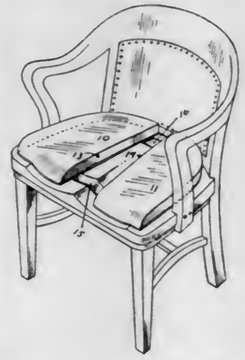
1. A compression-refrigerating apparatus comprising a rotary evaporator, a rotary condenser, a

rotary casing enclosing a compressor for the refrigerant, said evaporator, condenser and compressor being united to a rotary set provided with an electric motor, the rotary part of said motor being coaxially arranged with respect to and directly connected to said set, a counter-weight as-



sociated with said compressor for driving the compressor during rotation of said set, said rotary set having projecting parts at the periphery thereof forming a ventilator for the production of a current of air for cooling the condenser, the compressor and the motor.

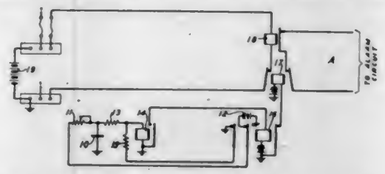
2,156,629
SEAT
Miller Reese Hutchison, New York, N. Y.
Application December 11, 1937, Serial No. 179,250
7 Claims. (Cl. 155—182)



1. As an article of manufacture, a seat for the support of the human body comprising two spaced cushion members and means for securing said members in spaced relation, the space between said members being less at the rear than at the front of the cushions, and being sufficient at the rear to enable said members to comfortably support the body while avoiding pressure on the central portion of the pelvic region.

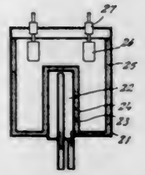
2,156,630
TIMING CIRCUITS
Clarence S. Knowlton, Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 19, 1938, Serial No. 191,411
8 Claims. (Cl. 175—320)

1. In an electric timing circuit, a condenser, a charging circuit for said condenser, a discharge circuit for said condenser including a relay and a resistance normally connected in circuit relation



with the winding of said relay and means controlled by said relay for opening the circuit to said resistance.

2,156,631
ELECTRIC DISCHARGE DEVICE
Otto Krenzien, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application February 15, 1937, Serial No. 125,844
In Germany February 14, 1936
10 Claims. (Cl. 250—27.5)



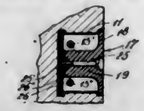
1. A gas- or vapor-filled electric discharge device including a metal container, an anode insulated from said container, a lead-in for supplying current to said anode, a substantial portion of the inner surface of said container forming the cathode, a layer of a highly refractory chemical compound covering said container surface portion and an electronically-active layer of metal, selected from a group consisting of alkali- and alkaline earth metals, coating said refractory layer, said compound being non-reactive with respect to said coating and having a small heat conductivity, whereby the arc formed between the cathode and anode tends to heat only a small portion of the entire cathode surface, and means for cooling the entire cathode to recondense on the cathode surface only the cathode material vaporized by the arc.

2,156,632
EARPIECE
Nathan A. Kurman, Woodside, N. Y.
Application October 27, 1937, Serial No. 171,239
1 Claim. (Cl. 18—59)



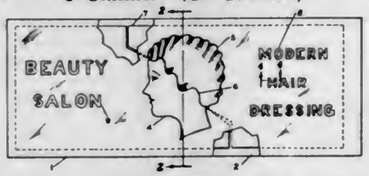
The method of securing during a molding operation a U-shaped magnet in a miniature receiver shell which comprises placing a substantially rigid strip of insulating material between the poles of said magnet at the yoke thereof, and thereafter injecting into a mold in which said magnet and said strip are positioned, plastic material so that it envelops the greater part of one polepiece as well as the sides of said strip.

2,156,633
MULTIPLE OUTLET STRIP
Arthur O. La Ducer, West Hartford, Conn., assignor to The Wiremold Company, Hartford, Conn., a corporation of Connecticut
Application June 19, 1937, Serial No. 149,073
7 Claims. (Cl. 174—48)



1. An electric conduit comprising a channel member of generally rectangular cross-section having side walls and a bottom wall, each of said side walls being provided with a relatively narrow internal groove running longitudinally of the conduit and disposed immediately adjacent the bottom wall of the channel, and a wiring device of a depth substantially equal to the depth of the channel adapted to be received and locked in place within the walls of the channel, said wiring device comprising a body portion of a width substantially less than the width of the channel, and means for locking the wiring device in the channel comprising a turnable cam member secured to the wiring device, said cam member being of a width less than the minimum internal width of the channel and of a length not less than the width of the channel between the grooves at the bottom thereof, said cam member being adapted to be turned, after insertion of the wiring device into the channel, to enter the grooves formed at the base of the channel and thereby to lock the wiring device in the channel.

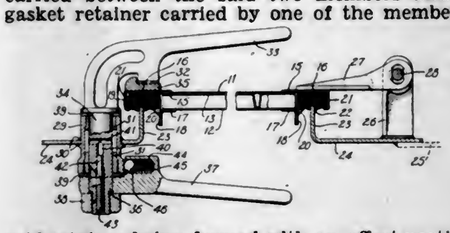
2,156,634
SIGN AND METHOD OF MAKING SAME
Theron B. Lakin, La Salle, Ill.
Application July 29, 1937, Serial No. 156,374
5 Claims. (Cl. 40—130)



2. A sign to be illuminated comprising an opaque support having configurative openings, a sheet of translucent cellulose material overlying the openings and having a substantially uniform thickness and having a front surface substantially in one plane and visible through the openings, a thin coating of translucent cellulose material of variegated thickness adherent to and distributed on the front visible surface of the sheet of translucent cellulose material and causing the sheet to become wrinkled.

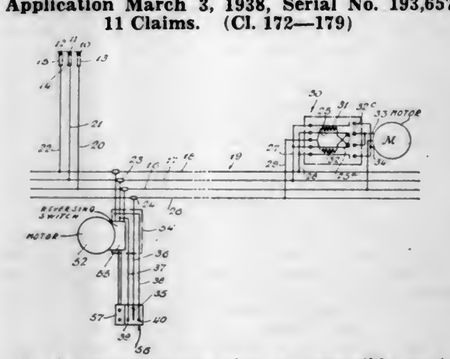
2,156,635
BULKHEAD DOOR
Joseph J. Mascuch, Newark, N. J., and Alexis S. Gorshkoff, New York, N. Y., assignors to Breeze Corporations, Inc., Newark, N. J., a corporation of New Jersey
Application January 17, 1935, Serial No. 2,152
8 Claims. (Cl. 114—117)

7. A closure comprising a panel portion, a right-angle member forming a continuous rim around the panel portion, a channel member spaced from the right-angle member, a gasket carried between the said two members and a gasket retainer carried by one of the members,



said retainer being formed with an offset portion to lie against the gasket.

2,156,636
ELECTRICAL CONTROL SYSTEM
Bemis E. Miller, Salamanca, N. Y., assignor to The American Monorail Company, Cleveland, Ohio, a corporation of Ohio
Application March 3, 1938, Serial No. 193,657
11 Claims. (Cl. 172—179)

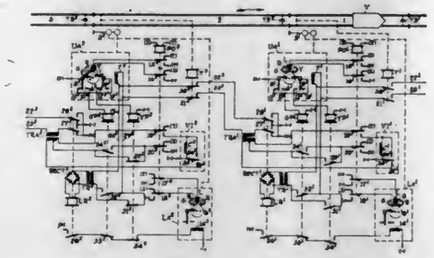


11. A system comprising a reversible motor power-line conductors from which said motor is energizable, and means for effecting reversal of said motor comprising a relay having a plurality of coils energizable from said conductors, relay contact structure for connecting said coils in series with each other across said conductors, a single control conductor extending from said relay to a remote control station, switching means at said last-named station for connecting said control conductor to one or another of said conductors thereby to effect full energization of one or the other of said coils to actuate said contact structure to open the circuit of the other of said coils, said switching means movable to neutral position to deenergize said one or the other of said coils until said contact structure restores aforesaid series connection of said coils, and relay contact structure operable to render the motor inoperative or to render it operative for rotation in desired direction in accordance with the position of said switching means.

2,156,637
AUTOMATIC BLOCK SIGNAL SYSTEM FOR RAILROADS
Daniel J. Murphy, Chili, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application November 14, 1936, Serial No. 110,860
5 Claims. (Cl. 246—50)

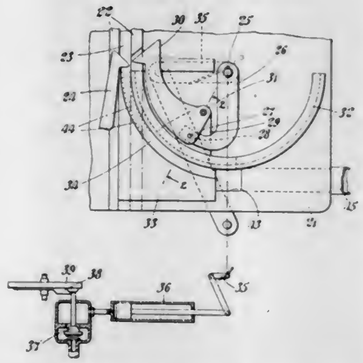
1. In a signal system for railroads, in combination; a stretch of track divided into track sections; a signal located at the entrance of each track section having a first and a second indicator; an operating mechanism for each first

and second indicator; one line circuit only for interconnecting adjacent signals; means for controlling said signals by applying direct and alternating current to said one line circuit in accordance with traffic conditions ahead, the first indicator of each signal being distinctively controlled by relay means at the signal location



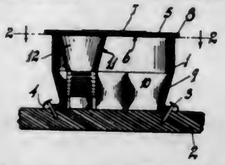
next in advance, which relay means is controlled by the condition of the first indicator of the associated signal and the first indicator of the signal next in advance thereof, and the second indicator of each signal of which is distinctively controlled by the condition of the first indicator of the associated signal and of the first indicator of the signal next in advance.

2,156,638
TYPE CASTING MACHINE
Shipley Myers and Albert Frederick Camp, London, England, assignors to The Kingsbury Engineering Company, Limited, London, England
Application November 9, 1937, Serial No. 173,555
In Great Britain March 2, 1937
13 Claims. (Cl. 199—95)



1. The combination with a type casting machine of the kind referred to for making type castings presenting a plurality of different characters, a single casting presenting a single character, which machine includes mechanical control means actuatable to selectively determine the character presented by a casting discharged from said machine, of means for delivering castings discharged from said machine in to a compositor's tray comprising a plurality of compartments and means actuatable in response to actuation of said control means adapted to determine the compartment of said tray into which said castings are delivered according to the character presented by said castings as selectively determined by said control means.

2,156,639
PIPE HANGER
William C. Powell, Lynwood, Calif., assignor of one-half to Clifford L. McAuliffe, San Pedro, Calif.
Application October 12, 1936, Serial No. 105,184
4 Claims. (Cl. 72—105)



1. A pipe hanger comprising a body, a plurality of adjoining tapered seats in the body, said body being open at the bottom, a nut in the body, a tapered head on the nut, said nut being adapted to rest in one of the seats, said nut projecting from the body when in operative position, and said nut being threaded to receive a pipe supporting stem.

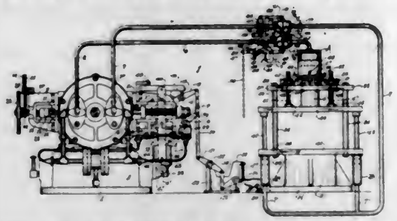
2,156,640
GARMENT MANUFACTURE
Philip Segal, Montreal, Quebec, Canada
Application June 13, 1938, Serial No. 213,484
In Canada May 20, 1938
7 Claims. (Cl. 2—93)



1. A method of sewing a sleeve lining to a body lining of a garment having a body and a sleeve a body lining and a sleeve lining, comprising, joining the body lining to the body except at the collar edges, providing the sleeve lining with an opening extending part way down the lining from the arm hole edge thereof, machine stitching the arm hole edge of the sleeve lining to the body lining leaving the shoulder edges of the body lining unjoined, subsequently machine stitching together the shoulder edges of the body lining and the edges of the opening, and then joining together the collar edges of the body and of the body lining.

2,156,641
HYDRAULIC PRESS AND CONTROL THEREFOR
Carl F. Sibbe, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application September 27, 1935, Serial No. 42,495, now Patent No. 2,133,118, dated October 11, 1938. Divided and this application February 20, 1937, Serial No. 126,793. In Canada August 5, 1936
6 Claims. (Cl. 60—52)

1. In a fluid system, the combination with a variable stroke, reversible discharge pump, of an hydraulic press operatively connected to said pump, said press comprising a lower stationary work supporting table, an upper stationary member spaced therefrom, and a platen movable between said table and member, means for controlling the discharge of said pump, comprising a control element movable to different positions of adjustment, a load and fire mechanism operatively connected to said element, latch means cooperative with said load and fire mechanism to retain the latter in neutral position, means for releasing said latch and urging said load and fire mechanism in one direction to condition said pump to actuate said platen toward said table, fluid pressure means operable on said load and fire mechanism when said platen has imposed a predetermined pressure on the work to actuate said load and fire mechanism and control

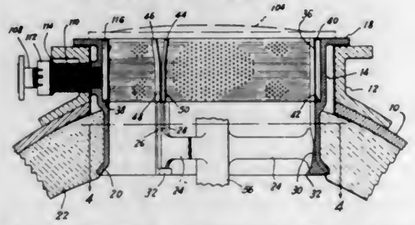


element in the reverse direction to cause a return movement of said platen, a pivotal member provided on said latch means and engageable by said load and fire mechanism to render said latch means ineffective during said reverse operation of said load and fire mechanism, additional fluid pressure means operable on said load and fire mechanism for actuating the latter toward neutral position when the platen engages said upper stationary member, thereby causing the pressure to build up in the system, and means for urging said latch into engagement with said load and fire mechanism to retain the same in neutral position.

2,156,642
PURIFICATION OF CARBOXYLIC ACID AMIDES
Harold Slagh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application January 30, 1937, Serial No. 123,296
11 Claims. (Cl. 260—561)

1. In the purification of an acid-contaminated carboxylic acid amide, the steps which consist in incorporating therewith a substantially anhydrous alkaline agent of sufficient strength to neutralize the acid present, and thereafter fractionally distilling the mixture to separate substantially neutral carboxylic acid amide therefrom.

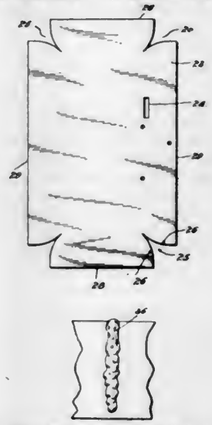
2,156,643
DIGESTER APPARATUS
William H. Shipman, Akron, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application May 2, 1935, Serial No. 19,369
14 Claims. (Cl. 92—7)



2. In combination, a digester having a recessed

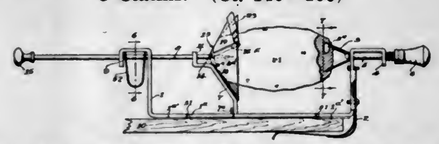
nozzle, a chip distributor, a relief line strainer ring seated within the nozzle recess, and means on said ring for guiding the distributor into its operative position.

2,156,644
SWITCH BOX AND METHOD OF MAKING SAME
Alfred W. Thomasen, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application May 22, 1937, Serial No. 144,130
3 Claims. (Cl. 29—148.2)



1. The method of forming a part of a sheet metal box having rounded edges and rounded corners which comprises first forming a blank with cut-out corners whose edges are dart shaped, then curling the sides and ends of the blank, then bending the sides and ends until the corner edges nearly meet, then reshaping each of the corners and leaving a single curved slot in each, then butt welding the edges of the corner slots, then grinding off the excess metal from the filled-in corner slots.

2,156,645
CULINARY DEVICE
John A. Waller, Beverly Hills, Calif., assignor to American Hardware & Importing Co., Los Angeles, Calif., a corporation of California, and Carl P. Frick, Los Angeles, Calif.
Application July 24, 1937, Serial No. 155,465
8 Claims. (Cl. 146—166)



1. A culinary device which comprises: an elongated frame member; a mandrel mounted for rotation on said frame member at one end thereof and substantially fixed against axial movement, said mandrel being adapted to receive one end of a fruit or vegetable in such manner as to cause the same to rotate therewith, and the axis of rotation of said mandrel being directed along the length of said frame member; a shaft member slidably mounted on the other end of said frame member for movement along said axis of

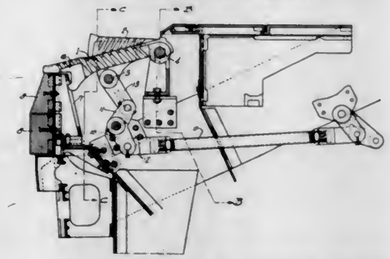
rotation and adapted to engage and rotatably support the other end of said fruit or vegetable, the axis of said shaft member being directed substantially along said first-named axis; and guide plate means slidably mounted on said frame member for movement in the direction of said axis and adapted for integral movement with said shaft member, said guide plate means comprising a conically shaped member having its apex directed away from said mandrel and provided with an opening adapted to receive the end of said shaft member, and said guide plate means being provided with cutting means adapted to engage a fruit or vegetable at the end thereof opposite said one end, whereby said cutting means will continuously remove the portions of said fruit or vegetable so engaged, upon rotation of said mandrel.

2,156,646

EXTENSION GRATE FOR MULTIPLE RETORT UNDERFEED STOKERS

Thomas George William Watson and John McLean Ferguson, London, England, assignors to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 21, 1936, Serial No. 106,728
In Great Britain November 13, 1935
5 Claims. (Cl. 110—44)



1. An extension grate for multiple retort, underfeed stokers comprising, a series of alternately disposed, stationary and moving bars arranged in side by side relation, means for connecting said moving bars into groups disposed in side by side relation, said means including a plurality of shafts, one for each of said groups, and independent means for actuating each of said groups of moving bars whereby an upward movement is imparted to the fuel and ash disposed thereabove.

2,156,647

BELT BUCKLE

Bernard R. Zeman, Providence, R. I., assignor to Swank Products, Inc., a corporation of Delaware

Application July 7, 1938, Serial No. 217,871
3 Claims. (Cl. 24—77)



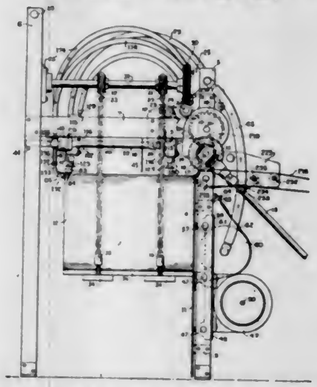
3. A belt buckle comprising a body member for embracing a portion of a belt and provided with a face plate having rearwardly extending edge flanges to extend along both edges of the belt, arms of the same piece of stock as the flanges and extending laterally of the body member from the opposite flanges toward each other and over the rear surface of the belt, said arms being substantially parallel to the face plate, an attaching member having means for attachment to a belt end and provided with a hook portion to detachably engage said arms, and a stud extending rearwardly from the face plate and provided with a bent portion substantially parallel to the face plate and extending toward said arms to extend through a selected opening in the belt and over the rear surface thereof.

2,156,648

SHEET FEEDER

Leonard Baker, Hillsdale, N. J., and George A. Martin and Leo C. Williams, Pearl River, N. Y., assignors to Dexter Folder Company, New York, N. Y., a corporation of New York

Application December 19, 1936, Serial No. 116,692
39 Claims. (Cl. 271—31)



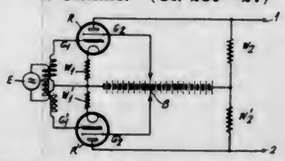
1. In a sheet feeder, vacuum sheet forwarders, a driven shaft, connections between the driven shaft and the forwarders for reciprocating the same, and rotary valve means mounted on and operated by said driven shaft for making and breaking vacuum in said forwarders at predetermined intervals.

2,156,649

AMPLIFYING DETECTOR

Hermann Bendel and Adolf Schmid, Berlin, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application August 6, 1937, Serial No. 157,674
In Germany August 7, 1936
2 Claims. (Cl. 250—27)



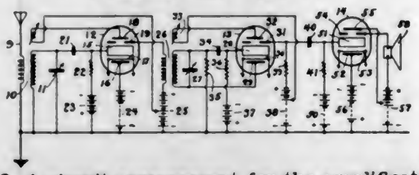
2. A detector system for obtaining a substantially linear response, comprising a pair of multigrid tubes of high internal resistance connected in push-pull relation, a source of signal potential connected between the signal control grids of said tubes, an un-bypassed resistor connected to the cathode of each tube and included in both the input and output circuits of its respective tube whereby a degenerative effect is produced, an impedance in each of said output circuits which is low as compared to the internal resistance of said tubes, and a pair of output terminals connected to the anodes of said tubes.

2,156,650

ELECTRONIC DEVICE

Henri François Dalpayrat, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, a corporation of Delaware

Application April 25, 1934, Serial No. 722,235
5 Claims. (Cl. 179—171)



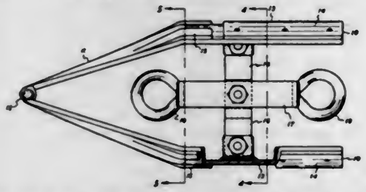
3. A circuit arrangement for the amplification of high frequency signal currents comprising an electron discharge device provided with an electron emitter, a main anode, a perforated auxiliary anode positioned between said aforementioned electrodes, means for concentrating the emitted electrons into a beam which passes through the perforated anode and impinges upon the main anode, an input circuit tunable to the high frequency signal currents connected between said concentrating means and the emitter, an output circuit including a source of positive potential connected to said auxiliary anode, said source of positive potential being also connected to the main anode, and a feed back circuit connected to the main anode and coupled to the tunable input circuit.

2,156,651

PIPE ALIGNING DEVICE

John Gardiner, Los Angeles, Calif.

Application May 2, 1938, Serial No. 205,565
4 Claims. (Cl. 72—128)



1. A pipe aligning device comprising two arcuate shoes adapted to grip the inside of a pipe and to project from the end thereof, the ends of said shoes being bent toward each other and joined by a hinge to form a tapering element projecting from said pipe, and means for forcibly moving said shoes from and toward each other about said hinge.

2,156,652

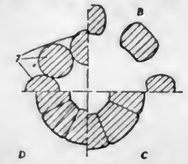
MANUFACTURE OF WIRE STRANDS

Gavin Mure Harris, London, England, assignor to Callender's Cable and Construction Company Limited, London, England, a British company

Application March 29, 1938, Serial No. 198,666
In Great Britain March 16, 1936
13 Claims. (Cl. 57—145)

8. A compacted wire strand, the interior of which is completely filled with a mouldable, flexible and cohesive filling material, produced by the method claimed in claim 12, in which a wire, or group of wires, is embedded in the filling material and is separated thereby from the surrounding strand.

12. A method of manufacture of compacted wire strand comprising the steps of assembling, around an inner part of the strand, a layer formed of circular wires, of which the number and diameters are so selected that, if closely assembled while undeformed in a layer of the same shape as the exterior of the said inner part, they would enclose that part with substantial clearance around it, and deforming the wires of this layer



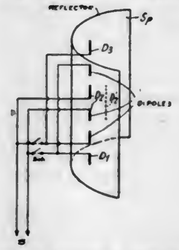
during assembly to bring the size of the layer down to cause it to fit on the said inner part, said deforming being carried out in two stages, in the first of which the wires are compressed radially by being drawn through a converging annular throat between a mandrel and a die and in the second of which the wires are brought together and finally shaped in a die.

2,156,653

ULTRA SHORT WAVE SYSTEM

Waldemar Ilberg, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany

Application May 22, 1936, Serial No. 81,225
In Germany June 4, 1935
3 Claims. (Cl. 250—11)



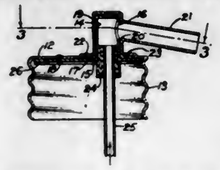
1. In an antenna system, the combination with a reflector and a plurality of aerials located substantially at the focus of said reflector in a plane coincident with the axis of said reflector, and signaling means connected to said aerials, of means for disconnecting one or more of said aerials without interrupting the continuous reception of or transmission from the other aerials of said system, and means for moving the position of one or more of the remaining aerials in said plane.

2,156,654

BOTTLE CLOSURE

Peter Kleid, San Francisco, Calif.

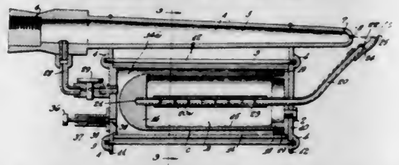
Application December 27, 1937, Serial No. 181,750
1 Claim. (Cl. 215—76)



A bottle closure comprising a cap having an

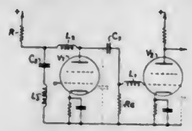
opening therein, an inner hollow dome having a flange within said cap and affixed thereto, said cap having a raised portion at said opening, an outer hollow dome having a flange between said first mentioned flange and said raised portion, said outer dome fitting on and being rotatable about said inner dome, each said dome having an opening in its side, said openings being moved into and out of register with each other by rotation of said outer dome, and a spout connecting with said opening in said outer dome.

2,156,655
SPRAY
Launcelot R. Morgan, Tucson, Ariz.
Application June 22, 1936, Serial No. 86,497
3 Claims. (Cl. 299—85)



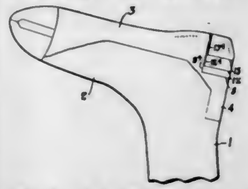
1. In an insecticide sprayer for garden hose, the combination of a tapered nozzle having a spray jet in the end thereof; a flexible insecticide chamber mounted adjacent said nozzle; a discharge tube from the chamber into alignment with the spray jet of the nozzle; a deflector plate mounted at the juncture of the two discharge jets of fluid from the spray jet of the nozzle and the discharge tube of the insecticide chamber; and means responsive to pressure in the nozzle to force the fluid from the chamber.

2,156,656
ELECTRIC WAVE FILTER
William Spencer Percival, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application February 18, 1937, Serial No. 126,317
In Great Britain February 21, 1936
6 Claims. (Cl. 179—171)



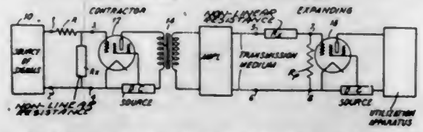
6. In an amplifying circuit utilizing a pair of vacuum tubes in cascade, a resistance and an inductance serially connected between the positive terminal of a power supply source and the anode of the first tube, a circuit including a condenser and an inductance serially connected between the anode side of the resistance and cathode, and an inductance connected between the anode of the first tube and the control grid of the second, the latter inductance forming with the anode to the cathode capacity of the first tube and the control grid to cathode capacity of the second tube a low-pass filter of one and one half sections, the series condenser and inductance together with a part of the inductance connected in series with the anode resistance forming the terminating impedance of the filter, and the remaining part of the series anode inductance constituting the series reactance of the first half section of the filter.

2,156,657
HOSIERY AND THE METHOD OF MAKING IT
Erwin Ruckel, Richmond Hill, N. Y.
Application August 13, 1938, Serial No. 224,668
5 Claims. (Cl. 66—185)



2. The method of knitting a stocking which consists of knitting the leg and foot portions as a unit, subsequently knitting a heel tab to the end of each high heel, the first course of each heel tab being extended to the outer edge of the corresponding sole portion and subsequently joining said sole portion to said heel tab by means of said extended course.

2,156,658
AMPLITUDE CONTRACTOR AND EXPANDER
Henry Shore, Elizabeth, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 19, 1934, Serial No. 726,433
4 Claims. (Cl. 178—44)

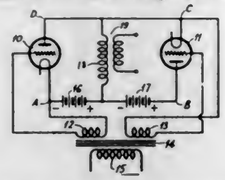


1. A signaling system for varying the amplitude of signal potentials comprising a source of signal input potential, a network including a linear passive resistance and a non-linear passive resistance both of which have one terminal directly connected to the input grid of a thermionic repeater, a transformer coupled to the output electrode of said thermionic repeater, an amplifier connected to said transformer, said amplifier connected to a transmission medium, a utilization circuit, a second network including a non-linear passive resistance and a linear passive resistance both of which have one terminal directly connected to the input grid of a thermionic repeater, the non-linear passive resistance in both the first and second networks being traversed solely by a signal frequency current due to the signal potential applied to said grid so that the controlling effect results solely therefrom, and character of said last mentioned non-linear passive resistance network being complementary to the character of said first mentioned resistance network, said second repeater network having its input coupled to the output of said first circuit and its output coupled to the input of said utilization circuit.

2,156,659
AMPLIFIER DEVICE
Rudolf Urtel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 17, 1936, Serial No. 85,648
In Germany April 1, 1935
1 Claim. (Cl. 179—171)

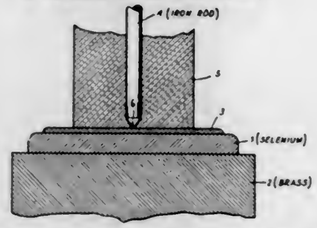
In an amplifying device, the combination of two

electron discharge tubes each having a cathode, a control grid and a plate, a conductor directly connecting the cathode of the first of said tubes to the plate of the second tube, a source of positive potential connected between the cathode of the second tube and the plate of the first tube, an output circuit connecting said directly con-



necting conductor to an intermediate point of said potential source, and an input transformer having a pair of secondary windings, each of which is connected between the control grid and cathode of one of said tubes, said windings causing the voltage of said control grids to vary in substantially opposite phase.

2,156,660
ELECTRODE SYSTEM
Willem Christiaan van Geel, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands
Application June 20, 1936, Serial No. 86,289
In Germany July 31, 1935
6 Claims. (Cl. 175—366)



1. An electrode-system for rectifying or controlling high or intermediate frequency electrical oscillations, comprising positive and negative electrodes composed of iron and selenium, respectively, said electrodes being separated by a solid insulating coating of polystyrene, and wherein at least one of the electrodes influencing the capacity has a small cross-section at the contact end, this end being surrounded with insulating material whose cross-section in the plane of the contact end has a surface which is many times larger than that of the contact end.

2,156,661
WIRELESS AERIAL
Norman Wells, Ardeevin, Epsom Downs, England, assignor to Radio Corporation of America, a corporation of Delaware
Application April 19, 1937, Serial No. 137,703
In Great Britain April 29, 1936
2 Claims. (Cl. 250—33)



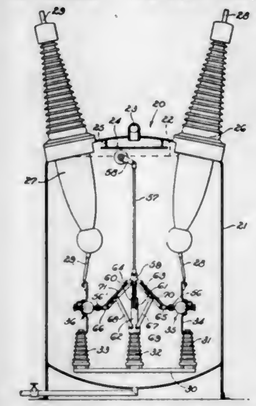
1. A half wave T aerial having a down lead which is in length not less than one-eighth nor more than three-eighths of the length of the working wave, said aerial having a horizontal substantially non-radiating top comprising a central conductor and a pair of spaced axially aligned conductors arranged on each side of said central conductor and parallel thereto, all of said conductors lying in a common horizontal plane, the outer ends of a wire from each of said pairs of conductors and the ends of said central conductor being connected by a cross connector at their adjacent ends.

2,156,662
PACKING MEANS FOR JOINTS
Percy Wills, Bridgwater, Somerset, England, assignor to Wills Pressure Filled Joint Ring Limited, Bridgwater, Somerset, England, a British company
Application December 1, 1937, Serial No. 177,497
In Great Britain April 5, 1937
7 Claims. (Cl. 288—1)



7. A resilient substantially flat gasket comprising a body having two relatively resilient metal walls forming a continuation of the plane surfaces of the gasket, impermeable means for spacing apart the inner and outer edges of the walls, said spacing means uniting said inner and outer edges to form a sealed chamber, the chamber thus formed within the gasket containing fluid under pressure sufficient to normally bulge the resilient walls outwardly.

2,156,663
SWITCHING MECHANISM
Fred H. Cole, Glendale, Calif., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application May 25, 1936, Serial No. 81,662
26 Claims. (Cl. 200—150)



26. In combination in a high-voltage circuit breaker for interrupting a circuit: a set of generating contacts; a set of interrupting contacts, said contacts being immersed in a dielectric liquid; means to open said sets of contacts to produce a generating arc and an interrupting arc; an arc-quenching member having a contact passageway to accommodate the opening movement of said interrupting set of contacts; passage means in said arc-quenching member for directing fluid flow from the vicinity of the gen-

erating arc to said contact passageway; and walls in said arc-quenching member providing a plurality of discharge passages extending from said contact passageway, there being slots in said walls opening on said passageway to permit the interrupting arc to curve away from the generating arc out of the contact passageway, at least some of the slots terminating in relatively thin arc-splitting edges in said walls.

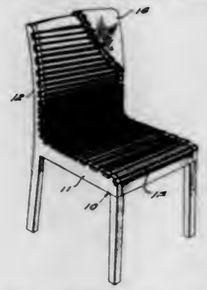
2,156,664

RESILIENT CUSHION FOR BEDS, CHAIRS, OR THE LIKE

Thomas J. Litle, Jr., Detroit, Mich.

Application November 20, 1936, Serial No. 111,799

4 Claims. (Cl. 5—190)



1. A resilient cushion for the human body comprising a frame, a series of flat endless rubber bands extending across the frame in close and substantially parallel relation and adapted to support and conform to the body resting thereon, said bands being substantially wide relative to their thickness and having their flat sides arranged transversely to the plane of the frame so as to present one edge of the bands to the supporting surface and means for securing the looped ends of the bands to the sides of the frame under initial and substantial longitudinal tension.

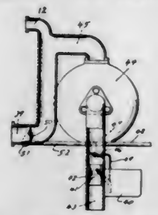
2,156,665

TWO-CYCLE INTERNAL COMBUSTION ENGINE

Marion Mallory, Detroit, Mich.

Application February 25, 1937, Serial No. 127,725

11 Claims. (Cl. 123—65)



7. A two-cycle engine comprising a cylinder with an intake port, a primary firing chamber having a restricted port opening into said cylinder and also having an intake port, a single carburetor for supply fuel mixture of the same mixture ratio to both intake ports, a blower between the carburetor and the two intake ports, the supply of fuel mixture to said chamber being of sufficient volume under all operating conditions to fill the same under pressure, means for increasing the volume of the cylinder charge without materially changing the volume of the charge to said chamber, and electrical means for igniting the charge in said chamber, thereby projecting the flame therefrom through said restricted port into and across the top of the cylinder and causing substantially instantaneous ignition and expansion of the charge in the cylinder.

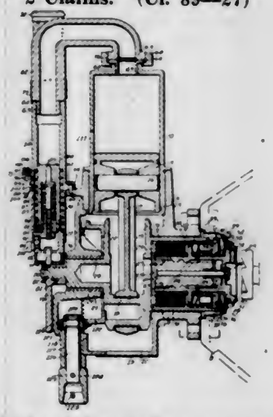
2,156,666

EXPLOSIVE MECHANISM

Romeo M. Nardone, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Original application May 29, 1930, Serial No. 457,301. Divided and this application June 4, 1935, Serial No. 24,910

2 Claims. (Cl. 89—27)



1. A cartridge firing device comprising a rotatable shaft, a cam mounted thereon, a follower associated with said cam, means for resiliently urging said follower into contact with said cam, a bolt mechanism operatively connected with said follower, a firing pin mounted within said bolt mechanism and normally movable therewith, and means for restraining the movement of said cam follower to a predetermined rectilinear path.

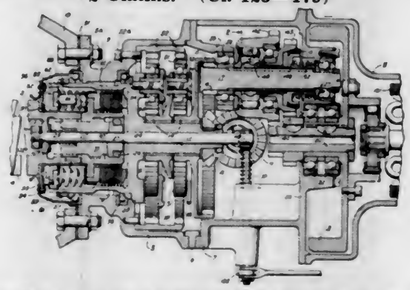
2,156,667

ENGINE STARTING MECHANISM

Romeo M. Nardone, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Substituted for application Serial No. 726,159, May 17, 1934. This application March 24, 1938, Serial No. 197,971

2 Claims. (Cl. 123—179)



1. In an engine starter of the inertia type, the combination with high and low speed shafts, of a high speed fly wheel mounted on said high speed shaft, accelerating means for said fly wheel, said accelerating means including a friction clutch operatively connected with said low speed shaft and having a toothed member forming a part thereof, a pinion on said high speed shaft meshing with said toothed member, a one-way clutch operatively connected with the low speed shaft and including a toothed member, a second pinion on said high speed shaft meshing with the toothed member of said one-way clutch, the ratio of the first named pinion and toothed member and the ratio of the second named pinion and toothed member being such that the one-way clutch overruns while said accelerating means operates to accelerate the fly wheel through the first named clutch.

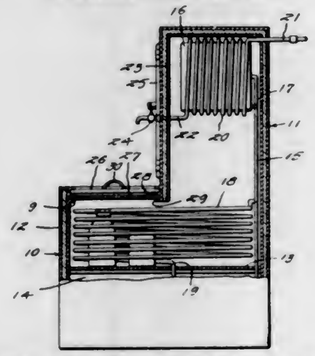
2,156,668

REFRIGERATING APPARATUS

James M. Staggs, Tulsa, Okla

Application October 2, 1937, Serial No. 167,048

2 Claims. (Cl. 62—89)



1. A refrigerator comprising a cabinet including a substantially L-shaped chamber, the lower portion of said chamber having a depth greater than the depth of the upper portion thereof and projecting forwardly therefrom, a freezing member in said upper chamber portion, a coil disposed about said freezing member and connected at one end to a source of liquid supply, the opposite end of said coil extending through a forward wall of said upper chamber portion, a faucet on said opposite end of said coil, a cooling coil in said lower chamber portion, a pair of horizontally slidable doors in the upper wall of said lower chamber portion forwardly of the forward wall of said upper chamber portion, and means slidably supporting said doors.

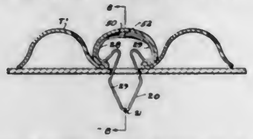
2,156,669

SPRING CLIP RETAINING DEVICE FOR BEAD TRIM

John H. Van Uum, Lakewood, Ohio

Application June 18, 1936, Serial No. 85,891

2 Claims. (Cl. 24—213)



2. A spring fastener for securing a member to a support and comprising a single flat strip of spring metal having a portion between its ends in the form of a loop adapted to enter an opening in said support and having end portions in the form of head portions which are concave toward each other, the free ends of said head portions being distorted oppositely with respect to each other for increasing the effective size thereof in a direction normal to the face of the strip, and said free end portions being in abutting relationship at the ends when the clip is installed.

2,156,670

SPRING CLIP DEVICE

John H. Van Uum, Lakewood, Ohio

Application May 28, 1937, Serial No. 145,335

6 Claims. (Cl. 85—5)



3. A spring clip for securing to an apertured support a hollow trim member having an opening in one face with inturned flanges therealong, and comprising a single piece of spring metal having a portion in the form of a resilient shank for snapping into the aperture of the support, said shank having locking shoulders thereon for retaining the device in the aperture, and having widened portions in the form of lands for engagement with the outer face of the support adjacent the opening and having relatively narrow locking lugs extending from the upper edges of said widened portions toward the shank, said lugs being relatively narrow with respect to the widened portions and of such length as to terminate in spaced relation to the outer face of the support on which the clip is to be installed when the lands are in engagement with the outer face of the support, and said locking lugs being resilient and flexible relatively toward and away from each other for entry through the opening in the trim member when the trim member is pressed thereonto and for reflexing therein to secure the member to the support.

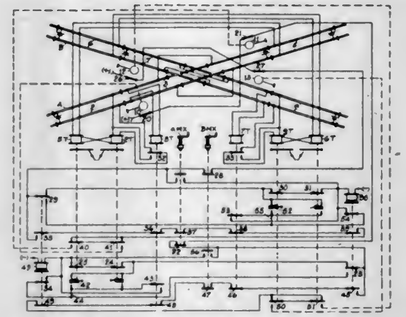
2,156,671

INTERLOCKING SYSTEM FOR RAILROADS

John I. Vaughn, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application June 22, 1937, Serial No. 149,702

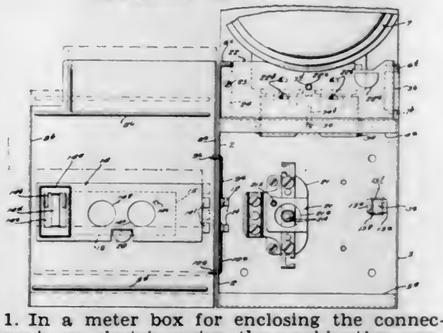
12 Claims. (Cl. 246—134)



1. In a traffic controlling system for railroads, a track layout having a plurality of conflicting routes, signals for governing traffic in both directions over each route, an approach track section for each signal, circuit means for causing each signal to clear when its respective approach section is occupied, circuit means for allowing only one of all of the conflicting signals to clear at any one time, and automatically controlled mechani-

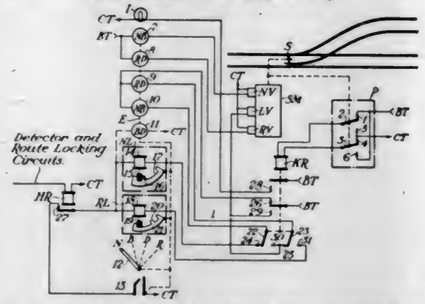
cal means for preventing the clearing of a signal due to the presence of a train that is leaving the interlocking plant on an approach track section after having passed through the plant.

2,156,672
METER CABINET
Albert J. Allen, Brooklyn, N. Y., assignor to Metropolitan Device Corporation, a corporation of New York
Application July 28, 1938, Serial No. 221,737
12 Claims. (Cl. 175—226)



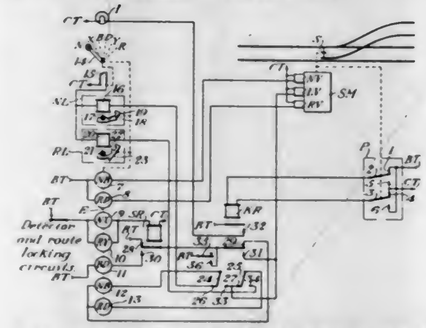
1. In a meter box for enclosing the connections to an electric meter, the combination comprising a box having a base, side and end walls and forming an enclosure for meter terminals, a cover pivotally secured at one side to the box and movable in two directions, means for latching the other side of the cover to the box, said latching means being releasable upon movement of the cover in a direction other than about said pivotal connection, and means within the box in addition to the pivotal connection of the cover to the box for securing the pivoted side of the cover to the box.

2,156,673
RAILWAY TRAFFIC CONTROLLING APPARATUS
Charles W. Bell, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 6, 1938, Serial No. 200,464
5 Claims. (Cl. 246—135)



1. In combination, a mechanism operable to a normal or a reverse position and provided with operating and locking magnets, a railway switch operatively connected with said mechanism for operation to a normal or a reverse position in accordance with the position of said mechanism, a lever having a normal and a reverse position and provided with contacts, operating circuit means governed by contacts of said lever for controlling the operating magnets of said mechanism, a polarized indication relay operable to a normal or a reverse position, means governed by said switch for operating said relay to its normal or reverse position in agreement with the position of said switch, control circuit means governed by said relay for controlling the locking magnet of said mechanism, lever locking means operatively connected with said lever for at times preventing a movement of the lever into or from its normal or reverse position, and means governed by said relay when in agreement with the position of said switch for rendering said lever locking means ineffective to prevent a movement of said lever into or from its normal or reverse position.

2,156,674
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ronald A. McCann, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 5, 1938, Serial No. 194,131
6 Claims. (Cl. 246—135)

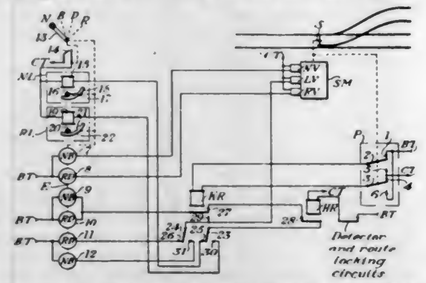


1. In combination, a railway switch operated to its normal and reverse positions by a mechanism; a lever having a normal, a normal indication, a reverse indication and a reverse position and provided with contacts closed in different positions of the lever; a switch locking relay, circuit means for energizing said relay governed by traffic conditions at the switch and including a normal lever contact or a reverse lever contact, control circuit means for controlling said mechanism including a back contact of said relay, lever locking means effective when deenergized to prevent the movement of said lever to and from its normal or its reverse positions, indication circuit means for energizing said lever locking means including a back contact of said relay together with a normal indication lever contact or a reverse indication lever contact, and other circuit means for energizing said lever locking means including a front contact of said relay together with a normal lever contact and a reverse lever contact.

2,156,675
RAILWAY TRAFFIC CONTROLLING APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 8, 1938, Serial No. 194,566
3 Claims. (Cl. 246—135)

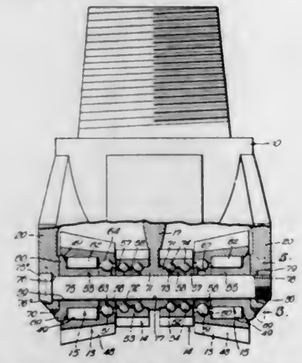
1. In combination, a railway switch operated to its normal and reverse positions by a mechanism having a normal and a reverse position; a lever operable to a normal, a normal indication, a reverse, and a reverse indication position and provided with contacts closed at different positions of the lever; operating means governed by a normal indication or a reverse indication

position contact of said lever for operating the mechanism to its normal or reverse position, a normal lever lock magnet operative when deenergized to lock the lever at its normal or normal indication position, a reverse lever lock magnet operative when deenergized to lock the lever at its reverse or reverse indication position, a polarized relay, means to supply said polarized relay with current of normal or reverse polarity according as said switch is in its normal or reverse



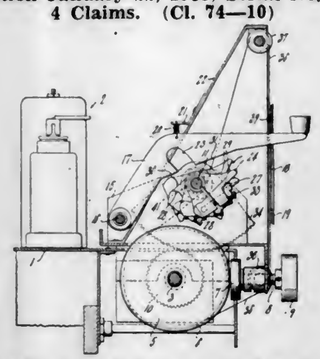
position, a traffic controlled relay responsive to traffic at the switch; a single circuit effective to energize said normal lever lock magnet consisting of the following elements in the order named, a contact closed at the normal and normal indication positions of the lever, a front contact of said polarized relay, a front contact of said traffic controlled relay, a normal polar contact of said polarized relay, and the winding of said normal magnet; and a single circuit for energizing said reverse lever lock magnet including the following elements in the order named, a contact closed at the reverse and the reverse indication positions of the lever, a front contact of said polarized relay, a front contact of said traffic controlled relay, a reverse polar contact of said polarized relay, and the winding of said reverse magnet.

2,156,676
CUTTER MOUNTING
Alfred C. Catland, Alhambra, Calif., assignor to Globe Oil Tools Company, Los Nietos, Calif., a corporation of California
Original application November 5, 1937, Serial No. 172,967. Divided and this application March 21, 1938, Serial No. 197,301
9 Claims. (Cl. 255—71)



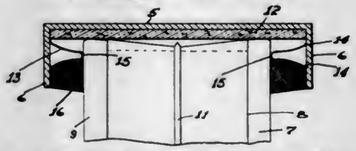
1. A well bit comprising a body having a depending leg, a support projecting from the leg, a roller cutter having an opening receiving the support, there being a ball groove in the wall of the opening, a tubular bearing member arranged on the support having a ball groove opposing the first mentioned groove, balls in the grooves assuming end thrusts in both directions from the cutter, a second tubular bearing member arranged on the support between the leg and the first bearing member, and rollers rotatably supporting the cutter on the second bearing member.

2,156,677
RADIO TUNING DEVICE
Frank S. Coe, Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application January 22, 1938, Serial No. 186,281
4 Claims. (Cl. 74—10)



1. A radio tuning device including, in combination, a tuning shaft; a second shaft; a gearing connecting said shafts; a member adjustably mounted upon said second shaft and comprising a collar surrounding said second shaft, an arm integral with said collar and extending in a plane normal to the axis of said second shaft; and a lever operable in a plane normal to the axis of said second shaft and having a notched portion adapted to embrace said second shaft upon actuation of said lever; said arm having a projecting portion extending at right angles to its surface at the extremity thereof remote from said collar; said lever having portions adjacent each side of said notched portion for contacting said projecting portion of said arm, said projecting portion lying in the path of said lever whereby the edge of said lever adjacent both sides of said notched portion contacts said projecting portion to rotate said second shaft to a predetermined position.

2,156,678
MEANS FOR SECURING STRUCTURAL BLOCKS IN FRAMES
Samuel Frank Cox, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application February 9, 1938, Serial No. 189,578
6 Claims. (Cl. 72—42)



1. A wall structure comprising a framework comprising web members having flanges providing channels, a plurality of hollow glass building blocks disposed in the frame to form a filling

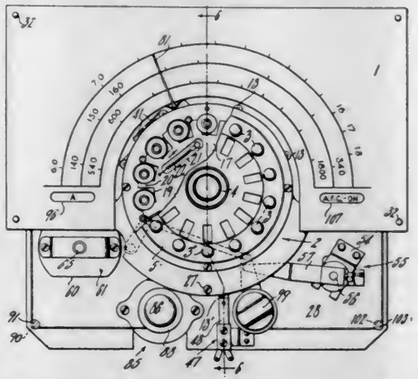
panel therefor and having the marginal portions thereof disposed between the flanges of the framework and resilient members disposed between the flanges and the adjacent faces of the building blocks.

2,156,679

TUNING MECHANISM FOR RADIO APPARATUS

Leslie F. Curtis and Frank S. Coe, Springfield, Mass., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York

Application July 24, 1937, Serial No. 155,388
4 Claims. (Cl. 250—40)



1. In an automatic tuning device for radio receivers, a central shaft, a plurality of push-rods disposed about said tuning shaft, stop members associated with said push rods, and a pair of spring pressed latch members having adjacent portions spaced to form a slot extending radially of said tuning shaft, said push rods and said latch members being relatively movable, and a switch member projecting into said slot for actuation by said stop members.

2,156,680

PROCESS OF MAKING LAMINATED SAFETY GLASS

Brook J. Dennison, Aspinwall, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application December 4, 1936, Serial No. 114,223
2 Claims. (Cl. 49—81)



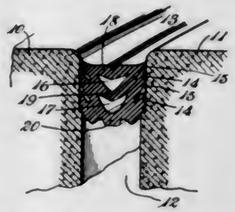
1. A process of making a laminated plate, which consists in placing a preformed vinyl acetal resin sheet upon one of the glass sheets which is to form a part of the laminated plate, moving the assembly forward horizontally and in such movement applying rolling pressure to the resin sheet to expel the air between such sheet and the glass sheet and cause the resin to adhere lightly to the glass sheet, continuing the forward movement of the assembly through a heated area to reduce the moisture content of the resin sheet to a fraction of one per cent, applying a second glass sheet on the resin sheet, and finally subjecting the assembly to a progressive rolling pressure while heat is applied thereto.

2,156,681

SEALING STRIP

Harry Dewhirst and Ernest Meyer, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application June 18, 1936, Serial No. 85,901
13 Claims. (Cl. 94—18)



1. A strip for sealing the space between spaced-apart preformed walls of a pavement structure or the like, said strip comprising wall-engaging portions and a resilient bridging portion at a face of the strip, said bridging portion being of a form, including a groove in said face, such as not to bulge substantially in the direction outwardly of the space under lateral compression of the strip.

2,156,682

METAL FASTENER

William Leonard Dimoush, Independence, Mo.

Application March 17, 1938, Serial No. 196,336
2 Claims. (Cl. 85—11)



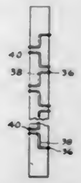
1. A sheet-like metal fastener having driving and entering edges, and transverse corrugations extending to said edges, said entering edge converging from its ends toward its middle portion, and having lateral projections in some of the grooves of said corrugations, each of said projections slanting downwardly and inwardly from a point spaced from and between said edges and merging for its full length at opposite sides into said corrugations.

2,156,683

FASTENING DEVICE

David M. Dunwoodie, Sr., Dayton, Ohio

Application March 31, 1938, Serial No. 199,057
8 Claims. (Cl. 281—25)



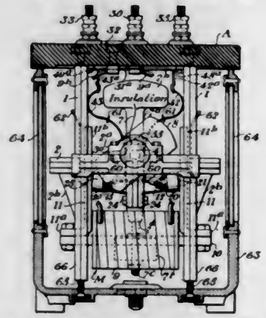
2. In a book assembly including a plurality of superimposed sheets having registering marginal apertures and a continuous wire binding device, said binding device being characterized by a plurality of aligned link portions extending in a general direction parallel to the sheet edges adjacent the marginal apertures, the link portions being interconnected by reversely bifurcated projections, the bifurcated ends of which are connected to the link portions, alternate projections extending in opposite directions from the link portions and formed into loops extending into the apertures of the sheets, the projections extending in one direction from the link portions entering the apertures from one side of the sheets and the projections extending from the opposite side of the link portions entering other apertures from the opposite side of the sheets, so as to lock the sheets in position.

2,156,684

ELECTRICAL RELAY

Arthur W. Fisher, Forest Hills, and Benjamin Mishelevich, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application December 30, 1937, Serial No. 182,506
11 Claims. (Cl. 200—90)



1. A relay comprising a rockshaft, a pendulum attached to said rockshaft and effective to bias said rockshaft to one position, an electromagnet, an armature secured to said rockshaft and cooperating with said electromagnet in such manner that said armature will exert a torque in one direction on said rockshaft when said electromagnet is energized, and two contacts operatively connected with said rockshaft in such manner that the one contact will become opened when said rockshaft is rotated through a predetermined angular distance in one direction from said one position and the other contact will become opened when said rockshaft is rotated through a predetermined angular distance in the other direction from said one position, the parts being so proportioned that if the winding of said electromagnet is supplied with current over said contacts said rockshaft will oscillate at substantially the natural period of said pendulum.

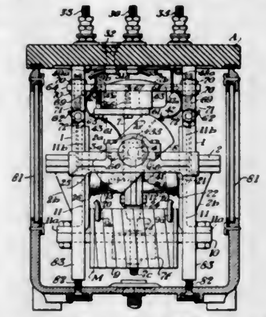
2,156,685

ELECTRICAL RELAY

Noble C. Shaw, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application December 30, 1937, Serial No. 182,501
15 Claims. (Cl. 200—90)

1. A relay comprising a rockshaft, a pendulum secured to said rockshaft, means for at times oscillating said rockshaft at substantially the natural period of said pendulum, a contact operated by the oscillation of said rockshaft and adjusted to occupy one position when said rockshaft occupies the position to which it is biased by said pendulum, and magnetic means for exerting a force on said rockshaft which is effective when said rockshaft is not oscillating to rotate said



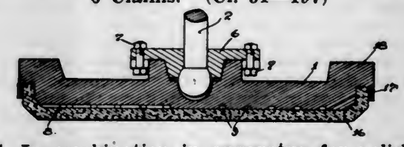
rockshaft to a position in which said contact occupies another position.

2,156,686

POLISHING BLOCK

James Green, Brackenridge Heights, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application October 20, 1937, Serial No. 169,982
6 Claims. (Cl. 51—197)



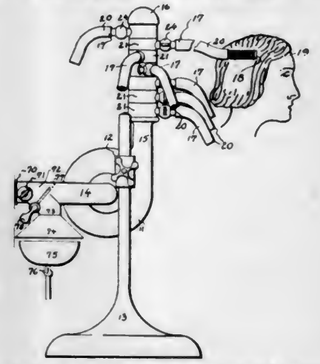
1. In combination in apparatus for polishing glass plates, a metal polishing block, the working surface of which is scored to provide a plurality of depressions therein, a layer of resilient material adapted to receive a slurry of suitable abrasive covering the working surface of the block, and means for securing the layer of resilient material to the polishing block.

2,156,687

CURLING APPARATUS

Robert Grabner, New York, N. Y.

Application November 14, 1936, Serial No. 110,909
11 Claims. (Cl. 132—36)



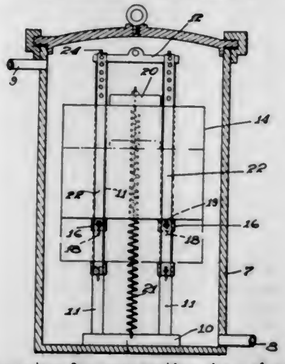
2. A curling apparatus comprising an endwise open tubular implement for curling hair wound thereonto, said implement being substantially evenly perforated on all but one side, a source of gas, a flexible connector conduit connected with said source, and a coupling for sealedly but readily detachably connecting said conduit with the open end of said implement.

2,156,688

PROCESS AND APPARATUS FOR SEPARATING LAMINATED GLASS SHEETS

Frank W. Hall, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application March 4, 1938, Serial No. 193,951
6 Claims. (Cl. 49—81)



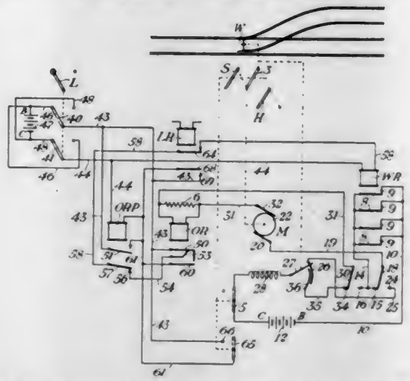
5. Apparatus for separating two sheets of glass secured together by a non-shatter layer of plastic material, comprising an upright frame for carrying the assembly in an upright position, stop means on the frame for engaging the lower edge of the sheet which is next to the frame, means for heating the assembly so as to soften the plastic material, means for applying downward pressure to the upper edge of the other sheet so as to cause such other sheet to slide downward over the first sheet when the plastic material is softened by the heat, stop means on the frame for limiting the downward movement of said other sheet, and guide means on the frame for preventing the sheets from moving away from the frame in a lateral direction.

2,156,689

SWITCH CONTROL SYSTEM

Claude M. Hines, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 29, 1938, Serial No. 232,385
20 Claims. (Cl. 246—219)



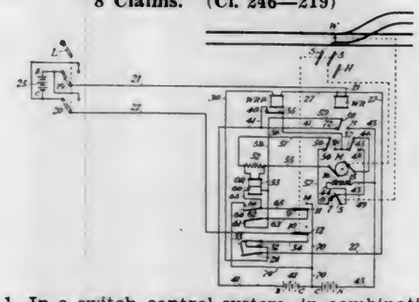
1. In combination, a railway track switch, a motor for moving the switch between a normal and a reverse position, a pair of conductors, manually controlled means for supplying current to said conductors, a switch control relay controlling a circuit for energizing said motor, a holding relay controlling a circuit for energizing said switch control relay from said conductors, and an overload relay controlled by the current supplied to said motor, said overload relay controlling a circuit for energizing the holding relay from said conductors.

2,156,690

SWITCH CONTROL SYSTEM

Claude M. Hines, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 27, 1938, Serial No. 231,885
8 Claims. (Cl. 246—219)



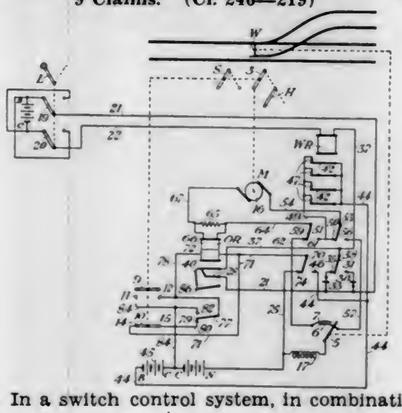
1. In a switch control system, in combination, a railway track switch movable between a normal and a reverse position, a motor for operating said switch, a pair of conductors, means for supplying to said conductors current of one relative polarity or the other, a neutral relay controlling a supply circuit for energizing the switch motor, a polarized relay controlling the direction of energization of the motor by current supplied by said supply circuit, an overload relay controlled by the magnitude of the current in the motor supply circuit, a control circuit for energizing the windings of the neutral and polarized relays from said pair of conductors, and means controlled by the overload relay for interrupting said control circuit and for establishing a circuit for energizing only the winding of the polarized relay from said conductors.

2,156,691

SWITCH CONTROL CIRCUITS

Claude M. Hines, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 27, 1938, Serial No. 231,886
9 Claims. (Cl. 246—219)



1. In a switch control system, in combination,

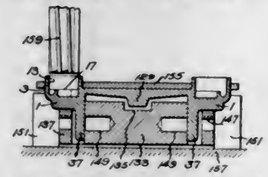
a railway track switch movable between a normal and a reverse position, a motor for moving said switch, a pair of conductors, means for supplying current of one or the other polarity to said conductors, a polarized relay controlling circuits for energizing the switch motor, an overload relay having a winding energized in accordance with the current taken by the switch motor, said overload relay having contacts which become picked up when the current taken by the switch motor exceeds a predetermined value, a circuit controlled by a contact of the overload relay for energizing the winding of the polarized relay from said pair of conductors, and circuits independent of the overload relay contacts and controlled by a polar contact of the polarized relay for also energizing the winding of the polarized relay from said pair of conductors.

2,156,692

METHOD OF MANUFACTURING ARTICLES

Alfred J. Hixon, Braintree, Mass.

Application April 3, 1936, Serial No. 72,551
16 Claims. (Cl. 29—148)



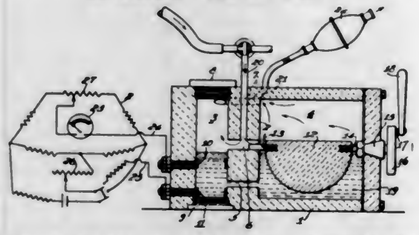
1. The method of making machined cast articles each of which as cast has an opening on a face thereof which comprises forming a casting including a plurality of said articles joined by arms to a supporting part with each article in the same relation to the latter, in which casting said arms are in a common plane and the faces of said articles all face the same way, securing said casting to a holder formed to provide a support for each article beneath said face thereof and adapted to present said articles in like relation to a machine tool for machining said openings, machining said openings of said articles, and severing said articles from said arms.

2,156,693

GAS TESTING

Moses G. Jacobson, Swissvale, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application November 12, 1936, Serial No. 110,506
21 Claims. (Cl. 23—232)



1. In a gas testing apparatus the combination of a container, a pair of electrodes disposed in spaced relation therein and adapted for connection to electromotive force measuring means one of said electrodes being formed of a material reactive with the gas to be determined, an electrolyte in said container adapted to displace from said reactive electrode reaction product of said gas and said material, and said reactive electrode being positioned to have a part exposed to gas sample and part immersed in said electrolyte, means for contacting said exposed electrode part with said electrolyte, and means for passing gas into said container into contact with said exposed electrode part.

12. That method of testing gas which comprises providing a voltaic cell including an electrode formed of material reactive with gas to be determined, and an electrolyte adapted to displace from said electrode product of reaction of said gas therewith, said electrode being partly immersed in said electrolyte; passing gas into contact with the exposed portion of said electrode, and determining the electromotive force created by said cell in consequence of such contact.

2,156,694

WOOD-SEALING COMPOSITION

Melvin W. Johnson, Nutley, N. J., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application November 12, 1937, Serial No. 174,155
5 Claims. (Cl. 91—68)

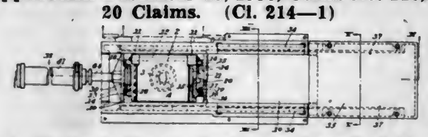
2. A method of coating wood in order to impart a maple color thereto, which comprises coating it with a mixture of nitrocellulose and a rape seed oil which has been treated by a process consisting in heating it to a temperature of 500 to 650° F. until the color of a 70% solution in xylol approximates that of a 40% solution of gilsonite selects in xylol.

2,156,695

COIL-HANDLING APPARATUS

Clarence J. Klein, Steubenville, Ohio

Application December 16, 1936, Serial No. 116,229
20 Claims. (Cl. 214—1)



1. In apparatus of the class described a coil supporting cradle, means for guiding said cradle for movement in a substantially vertical path while permitting limited arcuate movement of the cradle relative to the guiding means, means for causing substantially vertical movement of the cradle and guide means and means for moving said cradle and guide means in a substantially lateral path.

2,156,696

SANDBLAST SHAPING

Robert Knox, Berlin, Vt., assignor to Jones Brothers Company, Boston, Mass., a corporation of Maine

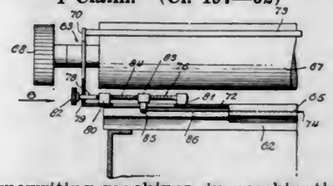
Application August 25, 1937, Serial No. 160,801
3 Claims. (Cl. 41—39)



1. The method of differently treating different groups of areas of an article by sand-blasting through masks, which comprises blasting one of said groups of areas through one mask to etch recesses in the article which are concave in both dimensions of the areas, then covering the blasted areas with a soft elastic mask complemental to

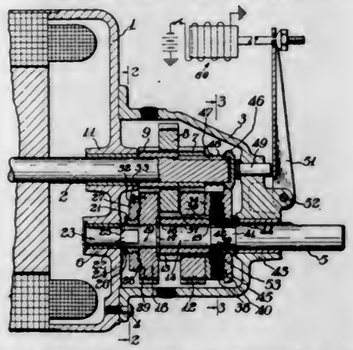
the first mask, pressing the soft mask into said recesses and cementing it therein, and differently shaping another group of areas by blasting through the openings in the second mask.

2,156,697
TYPEWRITER
John A. La Hiff, New York, N. Y.
Application May 9, 1936, Serial No. 78,799
1 Claim. (Cl. 197—62)



In typewriting machines, in combination with a movable carriage frame, a spring for moving said frame, and a drawband adapted to be actuated by said spring; a bolt carried by said frame and having a threaded portion, said bolt being movable along with said frame, and a nut mounted upon the threaded portion of said bolt and carrying an end of said drawband.

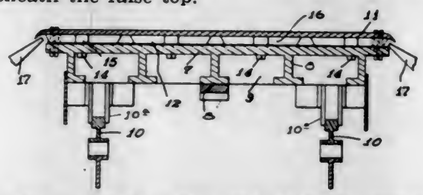
2,156,698
VARIABLE SPEED TRANSMISSION
Thomas B. Martin, Horseheads, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 27, 1937, Serial No. 133,393
15 Claims. (Cl. 74—368)



1. In a variable speed transmission, a drive shaft, a driven shaft, low speed gearing adapted to connect said shafts including an overrunning clutch, high speed gearing adapted to connect said shafts including a disconnectable friction clutch, means operable by slippage of said latter clutch applying pressure to the frictional elements of said latter clutch to resist such slippage, and means under the control of the operator for rendering the pressure means operative or inoperative.

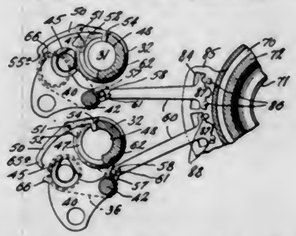
2,156,699
PLATE GLASS SURFACING TABLE
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 29, 1938, Serial No. 198,674
3 Claims. (Cl. 51—240)

1. A plate glass surfacing table comprising a metal body portion with a flat upper face, a false top comprising a metal plate having a flat upper surface in parallel with said face for receiving the glass to be surfaced, and having on its lower side distributed thereover, a plurality of elongated fins integral with the plate with their ends in opposition to the upper face of the body portion and acting as spacers, means for clamping the false top against the face of the body portion, and means for supplying a cooling fluid to the space beneath the false top.



surface in parallel with said face for receiving the glass to be surfaced, and having on its lower side distributed thereover, a plurality of elongated fins integral with the plate with their ends in opposition to the upper face of the body portion and acting as spacers, means for clamping the false top against the face of the body portion, and means for supplying a cooling fluid to the space beneath the false top, said fins tapering in cross section from their upper to their lower ends.

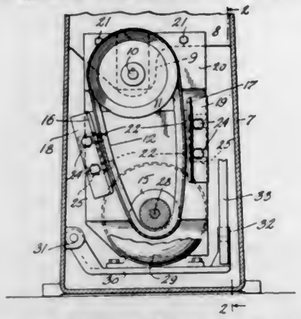
2,156,700
CONTAINER CAPPING MECHANISM
Thorvald Petersen, Erie, Pa., assignor to R. G. Wright & Co., Buffalo, N. Y.
Application November 21, 1936, Serial No. 112,106
13 Claims. (Cl. 226—92)



1. In a container capping mechanism, the combination of a magazine for a stack of caps, means for pressing a cap into operative relation to a container, a movable feed member having a predetermined alternating stroke for removing caps one at a time from said magazine and positioning the same in operative relation to said cap pressing means, and means operative when a cap is in an operative position with relation to said pressing means for arresting said feed member in its movement to its position to receive a cap from said magazine before said feed member reaches that position whereby reception of another cap for delivery to capping position is avoided.

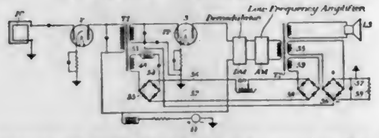
2,156,701
BELT DRIVE MECHANISM
Thorvald Petersen, Erie, Pa., assignor to R. G. Wright & Company, Buffalo, N. Y.
Application November 21, 1936, Serial No. 112,107
2 Claims. (Cl. 74—219)

1. In a belt drive mechanism, the combination of a driving belt of the relatively thick and narrow type such as one of V-shaped cross section which tends to approximate a circular form when relieved of tension, a driven pulley mounted upon a relatively fixed horizontal axis and over which pulley said belt passes and from which it extends downwardly, a driving pulley mounted beneath said driven pulley for engagement with said belt to apply tension thereto for driving said other pulley, means for suspending said driving pulley so that it may automatically assume driving engagement with said belt by the action of gravity regardless of stretch in said



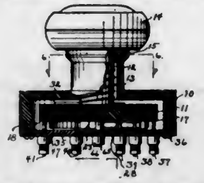
belt from use, belt confining members arranged in fixed relation near to portions of said belt extending between said pulleys and with which said belt is out of contact when under driving tension, and means for moving said driving pulley upwardly towards said driven pulley to relieve said belt of tension, whereupon said belt will engage with said confining members and will be prevented from assuming a circular form and will hang suspended from said driven pulley in such position that its slack will be urged downwardly out of contact with said driving pulley.

2,156,702
RECEIVING APPARATUS FOR COMMUNICATION SYSTEMS
Willard P. Place, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 1, 1937, Serial No. 134,357
9 Claims. (Cl. 250—20)



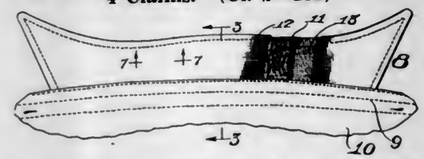
6. Receiving apparatus for communication systems employing a modulated carrier current comprising, a receiver responsive to such current, a stage of amplification including an electron tube, a coupling transformer, a first circuit means to couple a primary winding of said transformer with said receiver, a second circuit means to connect a secondary winding of said transformer across a control grid and cathode of said tube, said first and second circuit means proportioned for resonance at substantially the mid frequency of a carrier current modulated by a selected band of frequencies; an auxiliary circuit including capacitance, inductance and resistance coupled with said second circuit means and proportioned for series resonance at said mid frequency to provide a substantially uniform amplification throughout said frequency band; said auxiliary circuit normally conditioned to be in effect an open circuit, an electroresponsive device operatively associated with said auxiliary circuit to condition the circuit to be in effect a closed circuit, and circuit means including a winding coupled with the output circuit of the demodulator for operating said electroresponsive device when the current flowing in said output circuit exceeds a predetermined energy level.

2,156,703
SIGNAL SWITCH
Delbert O. Seaman, Des Moines, Iowa
Application May 22, 1936, Serial No. 81,193
3 Claims. (Cl. 200—6)



1. In a switch for operating signalling apparatuses, a cup housing, a non-metallic contact supporting plate secured to and enclosing the open end of said housing, a shaft rotatably mounted in the bottom of said cup housing, a non-metallic rotor element in said housing and secured to said shaft, an operating handle on the other end of said shaft external of said housing, a yielding stationary contact member extending through said plate and engaging the surface of said rotor element, a U-shaped contact plate on said rotor element, pivoted shield members on either side of said U-shaped element, a means for yieldingly holding said pivoted shield members in alignment; said contact point contacting said U-shaped member when said rotor is turned in either direction and contacting one of said shield arms after a pre-determined arc of rotation has been reached said shield arm supporting said contact point out of contact with said U-shaped member when said rotor is returned to a normal position, and a means for electrically connecting said U-shaped member into an electric circuit; said stationary contact being connected to an electric circuit.

2,156,704
COLLAR CONSTRUCTION
Herman J. Seman, Philadelphia, Pa.
Application April 20, 1938, Serial No. 203,106
4 Claims. (Cl. 2—131)



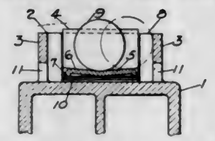
1. A fused shirt collar including a relatively thick and relatively dense outer woven textile ply of from ten to fourteen thousandths of an inch in thickness, formed of twisted three-strand mercerized cotton warp threads and weft threads more or less approximately eighty threads per inch both warp-wise and weft-wise;—the thickness of said warp and weft threads being relatively great in relation to the space between threads, a relatively thinner and less dense and more open-mesh rear woven textile ply formed of single-strand warp and weft threads and being relatively

limper than the aforesaid outer ply, and an intermediate woven cotton ply relatively less dense than the outer ply and relatively limper and carrying a thermo-plastic binding material uniting the aforementioned two other plies to form a composite collar structure in which the outer ply is substantially less limp and more form-retaining than the rear ply and less limp and more form retaining than the intermediate cotton ply, and in which composite collar structure the aforesaid outer ply dominates the two other cotton plies in any bending or flexing of the united three-ply structure in such a way that said two cotton plies will yield in favor of the outer ply when the collar is bent or flexed.

2,156,705

SIDE BEARING

Arthur B. Severn, Pittsburgh, Pa., assignor to A. Stucki, Pittsburgh, Pa.
Application July 3, 1937, Serial No. 151,938
12 Claims. (Cl. 308—226)

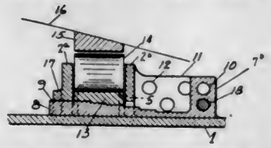


1. The combination with a truck bolster of a housing formed thereon comprising side and end walls projecting above the face of the bolster, offsets in the opposing faces of the housing side walls and extending upwardly from the bases thereof, said offsets being spaced from the pocket end walls, a U-shaped roller bearing plate disposed within said offsets and provided with side walls spaced apart a lesser distance than said housing side walls, a flat-sided roller disposed within said housing and movable therein upon said bearing plate, said roller projecting above said pocket side walls and engaging the adjacent housing end walls when approaching the ends of the bearing plate, and shims disposed beneath the bearing plate, said shims being positioned within the housing by engagement with said housing side wall offsets.

2,156,706

ROLLER SIDE BEARING

Arthur B. Severn, Pittsburgh, Pa., assignor to A. Stucki, Pittsburgh, Pa.
Application July 3, 1937, Serial No. 151,939
10 Claims. (Cl. 308—226)

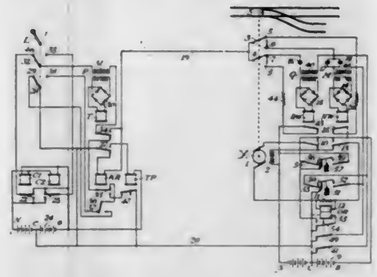


1. The combination in a roller side bearing of a pocket having connected walls and a bottom, apertures in opposite walls extending upwardly from said bottom, a stepped supporting member disposed in said pocket and inserted through said apertures, a roller bearing plate disposed in said pocket and having a stepped base engaging the stepped supporting member, said stepped supporting member being freely movable in one direction beneath said roller bearing plate and within said opposite wall apertures, and a roller movable on said bearing plate within said pocket.

2,156,707

REMOTE CONTROLLING APPARATUS

Crawford E. Staples, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 6, 1937, Serial No. 124,496
11 Claims. (Cl. 246—3)

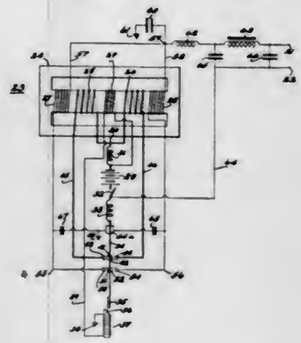


11. In combination, a motor, a pair of control relays for energizing said motor to cause it to operate in one direction or the other, a control circuit for each control relay for energizing said control relay, each of said control circuits having two branches in parallel, an overload relay responsive to the current taken by the motor and controlling one branch of each of the control circuits, each control relay being operative when energized to establish the circuit through the other branch of the control circuit for the other control relay and to interrupt the circuit through the other branch of its own control circuit, and means for selectively supplying current to said control circuits.

2,156,708

DIRECT CURRENT CONVERTER SYSTEM

Raymond H. Sullivan, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 10, 1938, Serial No. 212,962
2 Claims. (Cl. 125—365)

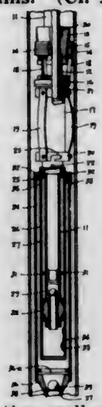


1. A D. C. converter system comprising a source of direct current, a transformer having primary windings and secondary windings, a vibrator for connecting the D. C. source alternately with the primary windings, an electromagnet for operating the vibrator, and a winding on the transformer for controlling the energization of the electromagnet.

2,156,709

OIL WELL DEVICE

Claude C. Taylor, Bakersfield, Calif., assignor to McGaffey-Taylor Corporation, Bakersfield, Calif., a corporation of California
Application April 20, 1936, Serial No. 75,296
10 Claims. (Cl. 166—20)

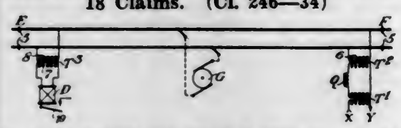


1. In a combination well cleaner and tester, a working barrel, a cylinder secured to and encircling said barrel, a plunger within said barrel, a tubing connected to said plunger to reciprocate said plunger with respect to said barrel, spaced packers immovable with respect to each other connected within said cylinder, communicating means to communicate suction from said barrel created by the downward movement of said tubing to the zone between said packers, and other communicating means to permit the passage of fluid from said barrel into said tubing on the downward movement of the tubing.

2,156,710

APPARATUS FOR SHUNTING OF TRACK CIRCUITS

Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 14, 1932, Serial No. 617,137
18 Claims. (Cl. 246—34)



10. In combination with a section of railway track and a rail vehicle thereon, a track circuit source of current for said section, a track relay energized by current from said source, an auxiliary source of current on the vehicle, and means for impresing a potential from said auxiliary source across the rails of said section in a direction to oppose the energization of the track relay from said track circuit source to thereby aid the release of said track relay.

2,156,711

MUSICAL INSTRUMENT

Frank Watschinger and Albert Schlecht, Baldwinsville, N. Y.
Application August 13, 1937, Serial No. 158,989
8 Claims. (Cl. 84—411)

1. A device of the class described, comprising a standard, a string extending lengthwise of the standard at one side thereof, a drum mounted on the standard and having a membranous head disposed adjacent to the string, and a striker

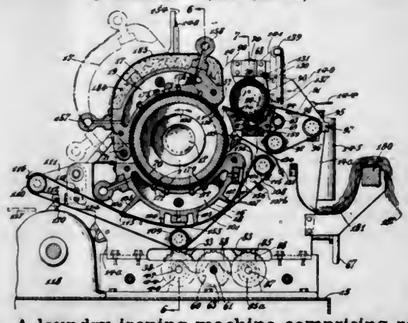


operatively connected with the string and so disposed as to strike the drum head responsive to vibrations of the string.

2,156,712

LAUNDERING APPARATUS

Claude J. West, Philadelphia, Pa., assignor, by mesne assignments, to Theodore Halkias, Philadelphia, Pa.
Application July 26, 1935, Serial No. 33,267
3 Claims. (Cl. 38—4)



1. A laundry ironing machine comprising roll-supporting means, a single revoluble main roll carried by said roll-supporting means, a plurality of generally oppositely disposed non-rotatable steam chests arranged around said main roll and adapted to bear against the operative surface thereof, one of said chests being stationary and adapted to coact with an auxiliary ironing apron disposed at the rear thereof and means for adjustably moving the rest of said plurality of steam chests and the axis of the roll for varying the pressure exerted by each of said chests on said roll without affecting the relative positions of said stationary chest and its coacting auxiliary ironing apron.

2,156,713

FLOATING SLUICE

William A. Whitcomb, Dedham, Mass., assignor to Great Northern Paper Company, Millinocket, Maine, a corporation of Maine
Application June 19, 1937, Serial No. 149,119
8 Claims. (Cl. 61—1)

1. A sluice-way comprising a series of sluice

units each comprising a pontoon having side and bottom channel walls defining a water channel, the walls of channels of immediately adjacent pontoons being overlapped to provide a channel that is substantially continuous between the pontoons, tie-means connecting the adjacent pontoons together characterized by holding the pontoons in a predetermined angular relation, said pontoons having buoyancy-adjusting water compartments, and means for establishing communication with said individual compartments to adjust the floating level and grade of the sluiceway.



2,156,714

METHOD OF TREATING LAMINATED GLASS

Russell G. Whittemore, Brackenridge, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application March 26, 1937, Serial No. 133,189
2 Claims. (Cl. 49—81)

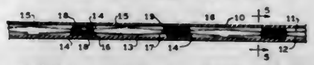
1. A process of forming a laminated glass plate of desired contour which comprises forming an assembly containing a sheet of plastic material between two sheets of glass, then effecting a bond between the plastic and the glass by heating the assembly under pressure in an autoclave, cooling, releasing the pressure and removing the assembly from the autoclave, then reheating it to the temperature of softening of the plastic material, causing the assembly to assume the desired contour and finally cooling it while in bent state.

2,156,715

CONTACT STRIP

Olin H. Basquin, Evanston, Ill., assignor to Streeter-Amet Company, Chicago, Ill., a corporation of Illinois

Application August 12, 1937, Serial No. 158,783
4 Claims. (Cl. 200—86)



1. A portable contact strip assembly for roads and the like comprising in combination a pair of elongated metal contact strips each having an undulating contour and arranged with the valleys of the undulations in register with those of the other strip, insulating means at the points of registration for holding the strips out of electrical contact, and a protective covering over said assembly, said strips deflecting at a plurality of points upon bending or coiling said assembly to prevent buckling or breaking of a strip.

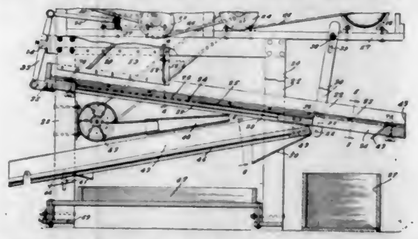
2,156,716

CORN GRADER

Earl A. Beckwith, Ludlowville, N. Y.

Application April 4, 1936, Serial No. 72,793
3 Claims. (Cl. 209—315)

1. A machine of the character described comprising a stand, reversely inclined upper and lower tables within said stand, fine and coarse grading screens removably fitted in the upper table, a cob screen arranged above the first-mentioned screens, clamps on the upper table and releasably securing the cob screen therein, a rocking lever on the stand at the higher end of the upper table and having operative connection with the latter, hanger arms on said stand remote from said lever, a pivot carried by the upper table and selectively adjustable in the said hanger arms, strap hangers on the upper table and connected with the lower table for holding one end thereof in its reversed inclined position with respect to the upper table, and rest blocks adjustably connected in the stand and slidably engaged by the lower table.

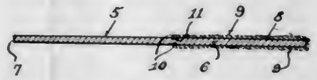


2,156,717

SUPERFLUOUS HAIR REMOVER

Leslie D. Bendure, Seattle, Wash.

Application October 27, 1938, Serial No. 237,339
1 Claim. (Cl. 51—186)



As a new article of manufacture, an instrument for removing hair from the body and limbs of a person comprising a body of this material having opposed flat faces and consisting of a substantially rectangular head merging at its rear end into a handle extending rearwardly from the head longitudinally thereof midway the width of the head, the head being formed adjacent its rear end with a continuous groove extending on both sides and ends thereof, a sleeve of flexible material fitting snugly about the head in enclosing relation thereto and being closed at its front end, the rear end of said sleeve being open for insertion of the head and about its rear end having a beaded rear marginal edge fitting snugly into said groove to hold the sleeve in place about the head, and a coating of fine abrasive material for the outer surface of said sleeve constituting hair removing means.

2,156,718

POLYMERIZATION OF OLEFINS

Franklin A. Bent, Russell W. Millar, and Simon N. Wik, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 23, 1935, Serial No. 55,832
6 Claims. (Cl. 260—683)

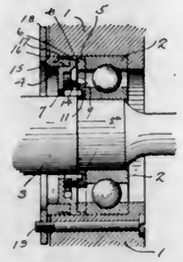
1. In the manufacture of higher boiling polymers by the direct hydration process of olefins, the steps which comprise contacting tertiary olefin containing hydrocarbon at a temperature above 100° C. but below 350° C. with an aqueous acid-acting catalyst, of a concentration between 0.5 and 50% for a time of 0.34 to 3.2 minutes the period of time being such that the reacted tertiary olefin is converted predominantly to polymer.

2,156,719

LUBRICANT SEAL

Arthur F. Berger, Dayton, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio

Application November 15, 1935, Serial No. 49,997
9 Claims. (Cl. 286—11)



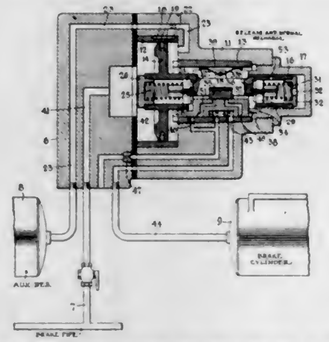
1. A unitary bearing seal including a mounting ring having a laterally extending peripheral flange, a clamp ring over which the peripheral flange is extended in clenched relation, an annular flexible diaphragm, the outer margin of which is permanently clamped between the mounting ring and clamp ring, a bearing ring engageable with a rotating part, an internal bead formed in said bearing ring, a second clamp ring conforming substantially to the internal bead of the bearing ring and permanently clamping the inner margin of the diaphragm therebetween, a series of spaced sockets on the mounting ring contiguous to the inner margin thereof, a plurality of helical springs seated in the sockets, a thrust ring associated with said unit and a ring of packing material exteriorly of the unit and subjected to compression by the thrust ring for exteriorly sealing the unit against the seepage of lubricant thereabout.

2,156,720

AIR BRAKE

Charles A. Campbell, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application May 24, 1938, Serial No. 209,793
7 Claims. (Cl. 303—36)



1. A brake controlling valve device for automatic brakes, comprising in combination a body adapted for connection with brake pipe, brake cylinder and auxiliary reservoir; a piston responsive to pressure differentials between brake pipe and auxiliary reservoir; a slide valve mounted on a seat in the body and shiftable thereon by the piston but having lost motion relatively to the piston; a graduating valve shiftable by the piston relatively to the slide valve; and yielding means resisting relative motion of the piston and slide valve through at least the terminal portions of the lost motion in each direction, the slide valve seat having a brake cylinder port and an exhaust port and the slide valve having an application port and a release-insuring port which respectively register with said brake cylinder port and the exhaust port in application position of the slide valve, said slide valve ports being lapped by the graduating valve when in its mid-position, and opened selectively upon the overpowering of said yielding means in opposite directions.

2,156,721

PROCESS OF TREATING HALOGENATED KETONES

Martin de Simó and Sumner H. McAllister, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 8, 1934, Serial No. 747,422
22 Claims. (Cl. 260—488)

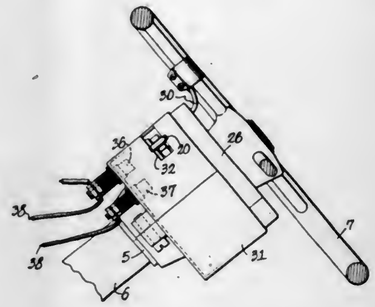
1. A process of producing carboxylic compounds which comprises reacting a halogenated aliphatic ketone of the class consisting of monohalogenated ketones and polyhalogenated ketones containing at least one monohalogenated carbon atom with water in the presence of a basic acting metal compound.

2,156,722

ELECTRIC CIRCUIT CONTROLLING DEVICE

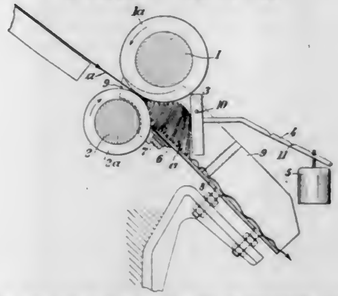
James Duggan, Melrose, Iowa

Application July 21, 1937, Serial No. 154,890
2 Claims. (Cl. 200—59)



1. An electric switch adapted to be secured to a steering wheel post under the steering wheel thereof, comprising a bushing fitted around the post, a switch housing secured to the bushing, stationary contacts within the housing, a rotary controlled ring mounted on the bushing and movable with the steering wheel, said control ring having a flange, an operating ring embodying split ring sections, mounted on the flange and normally held on the flange by frictional contact therewith, a contact arm on the operating ring and adapted to engage either of said contact members completing a circuit, means for automatically returning the operating ring to its inactive position, and manually controlled means for moving the operating ring to complete a circuit independently of the steering wheel.

2,156,723
CRIMPING DEVICE
Paul Esselmann, Wolfen, Kreis Bitterfeld, Karl Kösslinger, Dessau, and Paul Saffert, Wolfen, Kreis Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application June 17, 1938, Serial No. 214,268
In Germany June 23, 1937
2 Claims. (Cl. 19—66)

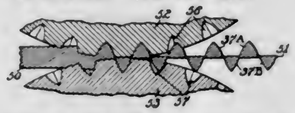


1. In an apparatus of the character described a device for crimping a continuous sliver of rayon staple fibers comprising, in combination, two delivery rollers having peripheral grooves transversely to the direction of the longitudinal axis, a collecting trough having two tongue-shaped end pieces reaching into said grooves in said delivery rollers, a trap pivotally suspended within said collecting trough, said trap being capable of closing that side of the collecting trough which is not closed by the delivery rollers, a lever affixed to said trap carrying a weight, and a leather-tongue affixed to the bottom of said collecting trough and extending towards the undermost of said delivery rollers.

2,156,724
SECONDARY ETHERS OF POLYHYDRIC ALCOHOLS
Theodore W. Evans, Berkeley, and Edwin F. Bullard, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Original application December 12, 1936, Serial No. 115,636. Divided and this application February 11, 1938, Serial No. 190,029
8 Claims. (Cl. 260—615)

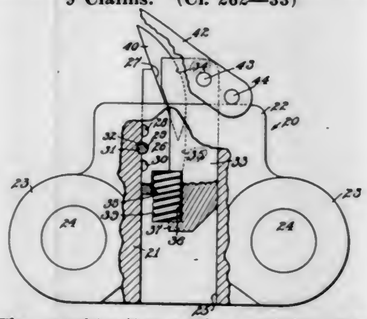
1. An aliphatic trisecondary triether of a trihydric alcohol.

2,156,725
METHOD OF MAKING CUTTER BITS
Frank L. Fulke, Terre Haute, Ind., assignor to Frank Prox Company, Terre Haute, Ind., a corporation of Indiana
Application May 23, 1935, Serial No. 23,017
4 Claims. (Cl. 76—108)



1. The method of making cutter bits which comprises the steps of hot forging a piece of metal to form a series of identical projections from one face of said piece, said projections being spaced from each other, and to form a series of identical projections from the opposite face of said piece, the units of said second series being respectively positioned between the units of said first series, punching the units of one of said series out of said piece, and thereafter punching the units of the other of said series out of said piece.

2,156,726
MINING MACHINE AND ELEMENTS THEREOF
Frank L. Fulke, Terre Haute, Ind., assignor to Frank Prox Company, Terre Haute, Ind., a corporation of Indiana
Application May 27, 1935, Serial No. 23,592
9 Claims. (Cl. 262—33)



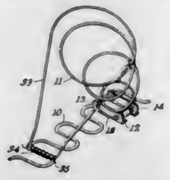
3. The combination with a mining machine chain link, of a cutter bit and means carried by said link for holding said bit, said means comprising a jaw member formed to provide a seat having a pair of converging walls meeting in a curved line lying in a plane between said walls, said seat snugly receiving said bit, a wedge member associated with said jaw and adapted to engage a surface of said bit, and means for shifting one of said members relative to the other to clamp said bit between said wedge member and said seat.

2,156,727
BLUE PIGMENT COLORS AND A PROCESS OF PREPARING THEM
Erich Korinth, Frankfort-on-the-Main-Hochst, and Georg Meder, Munster, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application August 31, 1934, Serial No. 742,346. In Germany September 13, 1933
7 Claims. (Cl. 134—58)

1. The process of producing blue manganate pigment colors which comprises heating to a temperature of between about 400° C. and about 850° C. an intimate mixture of barium sulfate and a manganese compound in the presence of a basic substance and of air and purifying the product thus obtained with a solution containing sulfurous acid.

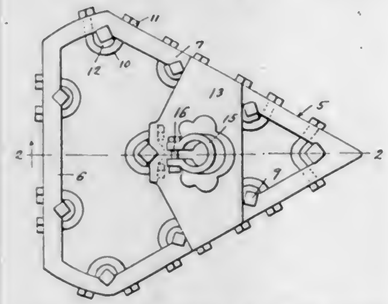
2,156,728
SPRING STRUCTURE
Abraham Krakauer, Brooklyn, N. Y., assignor to Kay Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York
Application April 9, 1937, Serial No. 135,857
19 Claims. (Cl. 155—179)

2. In a spring installation, an arched sinuous spring of wave form having a plurality of transverse bends therein integrally joined by substantially straight bend-connecting portions, a coil spring on one face of the sinuous spring and overhanging one of said bends and transmitting pressure put thereon to the sinuous spring, and preformed means connecting the end coil of the coil spring to a selected bend of the sinuous spring, said means comprising a sheet metal clip



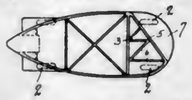
having a flat part in contact with the other face of the sinuous spring and having a perforation therein through which the coil spring is screwed to confine the sinuous spring between part of the coil spring and said flat part of the clip.

2,156,729
CULTIVATOR DRAG
Gus C. Krause, Lake Benton, Minn.
Application June 25, 1938, Serial No. 215,888
1 Claim. (Cl. 97—8)



A cultivator comprising a substantially triangular shaped frame including a cross member and converging side members integral therewith and integrally connected with each other, said side and cross members being constructed of channel material with the channels opening inwardly of the frame, said cross and side members having notches and apertures and the notches having angularly related faces, teeth including shanks having angularly related faces received in said notches, clamps extending through the apertures and having nuts threaded thereon and passing about the shanks of the teeth, saddles carried by the clamps and having angularly related faces to coact with the angularly related faces of the notches and the angularly related faces of the shanks in securing the teeth against movement on the frame, a plate secured on the angularly related faces, a tooth having a shank provided with angularly related faces engaging the angularly related faces of the last-named notch, a clamp carried by said plate and including a saddle having angularly related faces to engage the shank of the last-named tooth, a split sleeve formed on said plate for attaching the frame onto a cultivator, a tooth including a shank having anside members and having a notch provided with gularly related faces engaging the side members where the latter join with each other, and a substantially V-shaped clamp connecting the side members and including a saddle having angularly related faces to engage the angularly related faces of the shank of the last-named tooth.

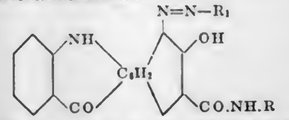
2,156,730
VEHICLE FRAME
William Kuner, Vandalia, Ohio, assignor of one-half to Everett P. Larsh, Vandalia, Ohio
Application September 7, 1937, Serial No. 162,619
8 Claims. (Cl. 293—55)



7. The combination with a vehicle of an inclined bumper carried thereby including rearwardly extending arms engageable with the vehicle chassis and an impact bar supported by the arms and extending in transverse relation from one side to the other of the vehicle and exerting camming action on an encountered obstacle under force of impact to laterally divert the path of travel of the vehicle into by-pass relation with the obstacle.

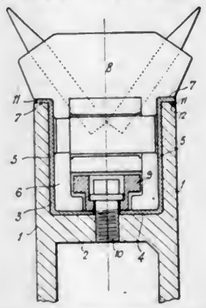
2,156,731
AZO DYESTUFF INSOLUBLE IN WATER AND FIBER DYED THEREWITH
Max Lange, Frankfort-on-the-Main, and Theodor Jacobs, Wiesbaden, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 4, 1937, Serial No. 129,103. In Germany March 4, 1936
8 Claims. (Cl. 260—155)

1. The water-insoluble azo dyestuffs of the following general formula:



wherein R stands for a member of the group consisting of phenyl, methoxy-phenyl, methyl-methoxy-phenyl and naphthyl and R_1 for a member of the group consisting of phenyl, substituted phenyl, naphthyl and anthraquinonyl, yielding, when produced on the fiber, in general green, olive and brown shades of good fastness properties, particularly of good fastness to light.

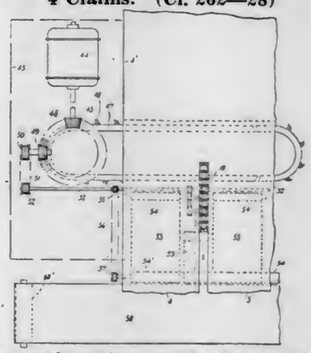
2,156,732
ENDLESS CHAIN CUTTING MACHINE FOR USE IN MINING COAL AND OTHER MINERALS
Oswald Floyd Lewis, near Sheffield, England, assignor of one-half to Newton, Chambers & Company Limited, near Sheffield, England, a corporation of Great Britain
Application March 7, 1938, Serial No. 194,455
In Great Britain March 30, 1937
7 Claims. (Cl. 262—33)



1. In a chain coal-cutting or like machine, a

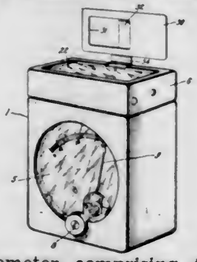
jib for carrying the cutter chain, a guide channel for the chain in said jib, said channel being wider and deeper than necessary to receive the chain, and lining means covering the entire bottom and sides of said channel to bring it to the required dimensions to fit the chain and said lining means being welded to the edges of the jib.

2,156,733
MINING MACHINE
Oswald Floyd Lewis, near Sheffield, England, assignor of one-half to Newton, Chambers & Company Limited, near Sheffield, England, a corporation of Great Britain
Application March 7, 1938, Serial No. 194,456
In Great Britain June 24, 1937
4 Claims. (Cl. 262—28)



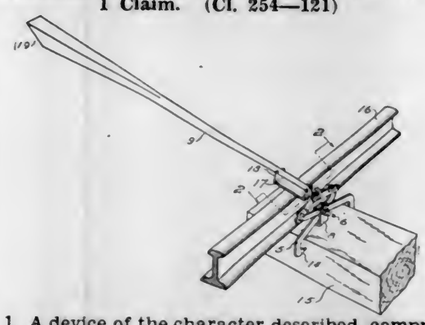
1. In a coal-cutting or like machine having a cutter chain and driving means therefor, a sprocket engaging and driving said chain, a gear driving said sprocket, and cutters projecting at the periphery of said gear to cut a clearance for said gear in the mineral being mined.

2,156,734
PHOTOMETER
Francis K. McCune, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application July 14, 1936, Serial No. 90,557
2 Claims. (Cl. 88—23)



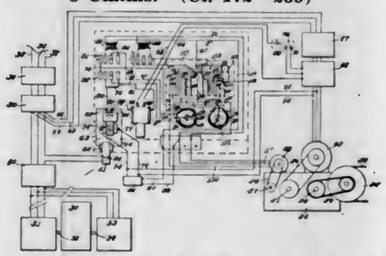
1. A photometer comprising two casings, a photo-electric cell of flat rectangular configuration in one of said casings, and an electrical measuring instrument of flat rectangular configuration in the other casing, said cell and instrument being electrically connected together, an opaque member of rectangular configuration hinged to the casing which contains the cell, said member covering the light-sensitive surface and having a variable opening to expose variable areas of said surface to light, said member being adapted to move on the hinge toward and away from the light-sensitive surface whereby different areas of said surface from said variable areas are exposed to light, and means including a hinge whereby one of the casings and the contained photo-electric cell are adapted to move about the other casing.

2,156,735
TIE ELEVATING TONGS
Clyde F. Packer, Marysville, Kans.
Application August 23, 1937, Serial No. 160,518
1 Claim. (Cl. 254—121)



1. A device of the character described, comprising, a pair of crossed arms having upper and lower ends, said lower ends fashioned with tie penetrating sections, a pair of links having upper and lower ends, said lower ends of said links adjustably pivoted to the upper ends of said arms, a pivot pin connecting said arms together between the upper and lower ends of the latter, a yoke subjacent said pin and pivotally connected to said arms by said pin, a lever pivoted to the upper ends of said links and connecting the latter together, a fulcrum member on said lever adapted to engage a rail adjacent said links, said pin fashioned with a section extending beyond said arm and adapted to engage said tie and coact with the latter and said yoke to move the lower ends of said arms apart to facilitate attachment and detachment of said tie penetrating sections with said tie when pressure is applied to said arms by said lever.

2,156,736
MOTOR CONTROL SYSTEM
William R. Perry, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application May 20, 1936, Serial No. 80,653
8 Claims. (Cl. 172—239)



3. In combination, a machine to be fed, an electric motor connected to drive said machine, an energizing circuit for said motor, means for feeding material to said machine, a variable speed transmission connected to drive said feeding means, and including an element shiftable in opposite directions to vary oppositely the output speed of said transmission, and automatic means for shifting said element including a reversible electric motor, a source of constant-voltage current, a source of current of a voltage variable

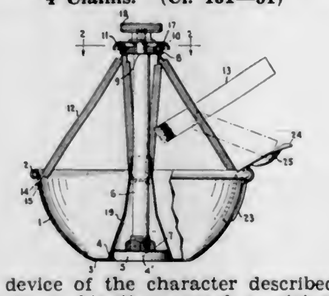
in response to current-demands of said first-mentioned motor, and switch means shiftable in response to opposite differentials between said voltages to energize said reversible motor oppositely, and a relay-controlled switch connected in said first-named energizing circuit and operable to open said circuit upon excessive overload thereof.

2,156,737
PROCESS OF PREPARING OCTADECADIENE ACID
Remmet Priester, Deventer, Netherlands, assignor to Naamlooze Vennootschap Noury & Van Der Lande's Exploitatiemaatschappij, Deventer, Netherlands, a company of the Netherlands
No Drawing. Application May 9, 1936, Serial No. 78,922
17 Claims. (Cl. 260—413)

1. The process of preparing 9,11-octadecadiene 1-acid, which comprises subjecting ricinoleic acid to a temperature of 290–315° C.

6. A process of making 9,11-octadecadiene 1-acid which comprises heating ricinoleic acid to a temperature of about 250° C. to not over 260° C., until it has an acid number not exceeding 50 and heating said product to a temperature above 270° C., but not over about 315° C., while under an absolute pressure of not over 30 mm., to distill off 9,11-octadecadiene 1-acid, substantially free from ricinoleic acid.

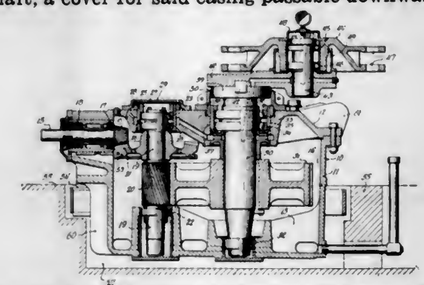
2,156,738
CIGARETTE ASHTRAY AND HOLDER
Herbert Paul Ryan, Suffern, N. Y.
Application July 13, 1937, Serial No. 153,390
4 Claims. (Cl. 131—51)



2. A device of the character described, comprising, in combination, an ash receiving receptacle having a recess in the bottom portion thereof, a weighted member mounted within said recess, a shaft extending vertically from said receptacle and having one end attached thereto above the weighted member, a collar supported on the opposite end of said shaft and having a plurality of perforations, a plurality of pairs of resilient members each having one end thereof attached to said collar and the other end thereof connected to said receptacle, and a guard member supported on said receptacle adjacent the place of connection of one of said resilient members.

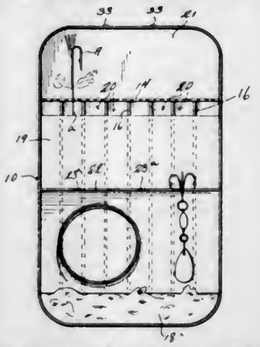
2,156,739
GEARED POWER UNIT
Walter P. Schmitter, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application November 23, 1936, Serial No. 112,306
8 Claims. (Cl. 74—420)

1. In a driving unit, the combination of a bottom casing, a vertical crank shaft within said casing, speed reducing gearing including a gear upon said shaft, a bearing for the upper end of said shaft, a cover for said casing passable downward-



ly around said bearing and releasably secured to said casing, and means coacting with said shaft and said cover to suspend said shaft from said cover.

2,156,740
FLY-BOOK CASE
George D. Schweigert, Denver, Colo.
Application June 22, 1937, Serial No. 149,731
11 Claims. (Cl. 43—32)



1. A flybook comprising a case having a body divided by partitions into a plurality of relatively long longitudinally extending compartments adapted to contain leaders, the compartments terminating short of one end of the case, and a relatively large compartment at this end of the case into which the longitudinal compartments open and adapted to contain the flies associated with said leaders, the case at its opposite end from the large compartment being formed with a compartment opening into all of the longitudinal compartments and containing a moisture retaining element.

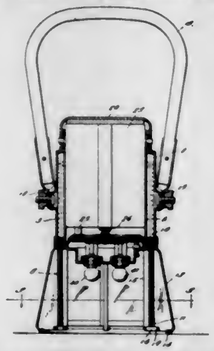
2,156,741
ADJUSTABLE STABILIZER CONTROL FOR TOY AIRPLANES
Harvey A. Sellers, Jr., Decatur, Ill.
Application March 15, 1938, Serial No. 196,082
1 Claim. (Cl. 46—76)



A toy airplane or glider having a fuselage frame-work formed of assembled pieces, a supporting wing, a stabilizer therefor comprising a hinged plane member provided with a forwardly

projecting portion, and a pliable member secured to the frame-work and interposed within the arc of movement of said forwardly projecting portion and adapted to have frictional engagement with said forwardly projecting portion of said hinged plane member to adjust the latter and hold the plane member in set position.

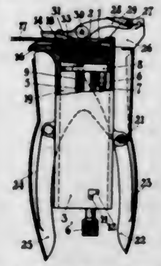
2,156,742
SIGNAL LANTERN
Rolla A. Shellabarger, Decatur, Ill., assignor to Helen C. Marshall, St. Louis County, Mo.
Application September 2, 1937, Serial No. 162,206
1 Claim. (Cl. 240—10.63)



A lantern comprising a cylindrical case having one end open and disposed lowermost and provided with an annular shade chamber opening through the lower end of the case, said chamber tapering towards the upper end of the case, means for mounting an electric illuminating means in the case, an annular colored shade slidable in the chamber and adapted to frictionally engage with walls of the chamber when moved fully therein, depending legs on the case and arranged in diverging relation, an annular member connecting the lower ends of the legs and providing a rest, depending guide members on the case inwardly of the legs and spaced therefrom to coact therewith in guiding the shade when moved outwardly of the chamber, and stop fingers pivoted on the guide member and detachably connected with the legs to limit the movement of the shade outwardly of the chamber.

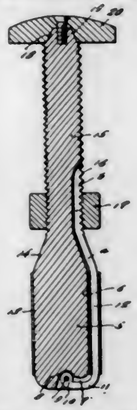
2,156,743
PAPER CLIP APPLYING TOOL
Hans Skrebba, Lahr, in Baden, Germany, assignor to Skrebba Buromaschinenfabrik K.-G., Freiburg, in Breisgau, Germany
Application September 1, 1938, Serial No. 228,030
In Germany September 6, 1937
11 Claims. (Cl. 120—8)

1. Pliers for applying metal clips to superposed sheets of paper, for the purpose of assembling the sheets, comprising in combination a magazine in which is located a cartridge of superposed clips, a feed mechanism in said magazine for causing the clips to be discharged one by one from the magazine through an upper opening in this magazine, means at the upper end of the magazine for holding in position one of the lugs or limbs of the clip thus ejected, an open slot above the magazine for the introduction of a pile of sheets to be assembled, this slot being exactly on a level with the ejected clip, two arms of pliers pivotally mounted on the magazine, one of these arms being acted upon by a weak spring which when starting the operation brings two terminal lugs under the sheets of paper so as to raise them and to grip them between these lugs and the upper edge of the said slot, the other arm of the pliers moving towards the sheets a pivoted arm located above the magazine and of which a lower terminal pin is normally in engagement, from underneath, with the limb or lug of the clip



which is not held, this arm having a rising path followed by a straight line path in such a manner that its pin firstly raises the lug or limb of the clip, the other limb being held, then this arm moves horizontally towards the sheets of paper, the clip which has thus been opened so as to bring it into engagement with the sheets, one limb of the clip engaging with the sheets above and the other below.

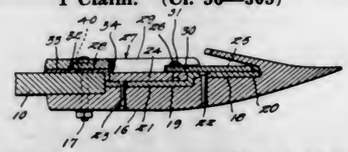
2,156,744
FITTING CLEANER
Henry J. Smith, Great Neck, N. Y.
Application December 6, 1938, Serial No. 244,260
1 Claim. (Cl. 51—187)



A tool of the character described comprising an elongated body having a longitudinally extending slot therein, one end of the body being formed with a pocket, a channel extending from the pocket and communicating with the slot, an L-shaped arm having its lower portion disposed into the pocket, a pin extending across the pocket and through the lower end of the L-shaped arm, the horizontal portion of the arm being adapted to be disposed in the channel while the vertical portion is disposed in the slot, the upper portion of the arm provided with serrations at its outer side, said elongated body being provided with threads at its portion adjacent the serrations of the arm and with which the serrations are matchable, a nut feedable on the threaded portion of the body and upper portion of the arm,

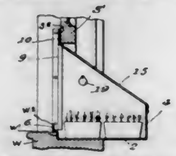
and a strip of abrasive material adapted to be disposed around the body and across the said slot, and holding means on the body for holding the arm disposed into the slot and against the said strip.

2,156,745
SICKLE BAR ASSEMBLY
Vereau L. Stathem, Riverdale, Calif.
Application May 15, 1937, Serial No. 142,906
1 Claim. (Cl. 56—305)



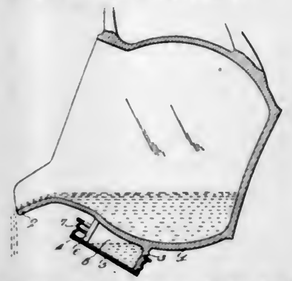
A sickle bar assembly comprising a supporting bar, a plurality of guard fingers, the rear ends of which abut against the under surface of the supporting bar, said guard fingers having stepped upper faces, stationary blades disposed on the stepped upper faces of the guard fingers and provided with downwardly offset shank members, a slide bar mounted in the channel formed by said shank members and the forward edge of said supporting bar but spaced from the latter, blades carried by said slide bar, a plurality of longitudinally spaced U-shaped pressure members secured to the supporting bar and the parallel arms thereof projecting forwardly over the slide bar to hold the latter in contact with the stationary blades and the shank members thereof, a wear member substantially L-shaped in cross section interposed between the pressure members and the supporting bar and extending downard into the space between the supporting bar and the slide bar, and bolts extending thru the guard fingers, the supporting bar, the pressure members and the said interposed wear member to hold said parts securely together, the wear member being formed with slots whereby it may be adjusted to take up the wear on the slide bar.

2,156,746
ADJUSTABLE WINDOW CONSERVATORY
Julius Steinmetz, Winthrop, Mass., assignor of one-half to Max Hoffman, Dorchester, Mass.
Application April 9, 1938, Serial No. 201,134
4 Claims. (Cl. 47—40)



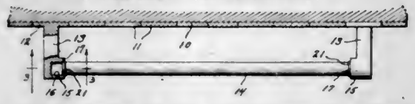
1. In a window conservatory to extend transversely of a window and to rest upon the sill thereof, a bottom structure comprising a pair of interfitting members slidably adjustable longitudinally relative to each other to vary the length of said bottom structure, thus to adapt same to fit window frames of different widths, said members being open at their inner sides, tops and inner ends and each member including a bottom wall, an outer side wall and an outer end wall, a top structure covering said bottom structure, said top structure comprising a pair of interfitting paned panels slidably adjustable longitudinally relative to each other to collectively correspond in length to the length of said bottom structure, and a weather excluding upwardly directed flange along the inner side of each panel to extend upwardly across the inner face of the bottom cross member of a window sash when the conservatory is operatively positioned in a window frame and the sash is lowered.

2,156,747
DRIP CATCHER FOR CONTAINERS
Irving E. Walker, Cranston, R. I.
Application June 8, 1938, Serial No. 212,546
2 Claims. (Cl. 65—31)



1. A drip catcher for a container and comprising a substantially semi-cylindrical cup member secured to the body of the container with its open portion uppermost to provide an inlet, said member having an open outer end and being exteriorly threaded, a cap threadedly secured to said member for closing the outer end thereof and a skirt included in the cap and a portion of the skirt overlying the major portion of the inlet.

2,156,748
DEVICE FOR SUPPORTING BARS AND THE LIKE
Walter T. Walker, deceased, late of Vineland, N. J., by Catherine Humphrey Walker, executrix, Hinsdale, Ill., assignor to Kimble Glass Company, Vineland, N. J., a corporation of Illinois
Application December 24, 1936, Serial No. 117,667
5 Claims. (Cl. 211—123)

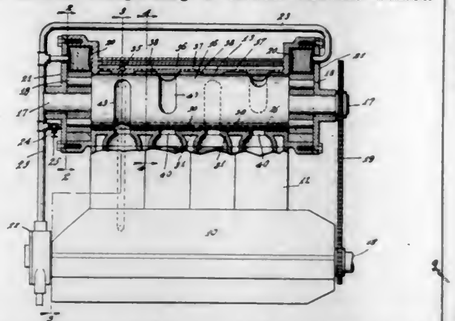


1. In a device of the character described, a pair of brackets fixedly mounted in spaced relation to each other, each bracket being provided with an opening, a bar having its ends located in said openings, and members embracing said bar adjacent the ends thereof, said members being fixed against movement longitudinally of the bar and each engageable with an exterior portion of one of the brackets so as to prevent longitudinal movement of the bar.

2,156,749
ROTARY VALVE ENGINE
Erwin G. Baker, Indianapolis, Ind.
Application April 4, 1936, Serial No. 72,715
4 Claims. (Cl. 123—190)

1. In an internal combustion engine, a cylinder, a rotary valve, a cylinder-head provided with a bore for the reception of said valve and with a cylinder port providing communication between said bore and the cylinder, and means responsive to fluid pressure for forcing said valve into con-

tact with the wall of said bore adjacent said port, said means comprising a closed flexible-walled



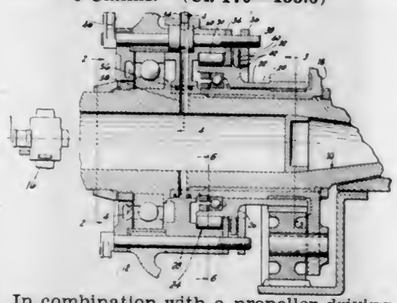
liquid container, and means for supplying liquid under pressure to said container.

2,156,750

RELEASABLE PROPELLER DRIVE

Frank W. Caldwell, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application August 8, 1936, Serial No. 94,990
9 Claims. (Cl. 170—135.6)



1. In combination with a propeller driving engine, a hydraulically actuated controllable pitch propeller driven thereby and a planetary reduction gearing having a normally fixed sun gear between said engine and said propeller, one-way clutch means operatively associated with said sun gear to restrain said sun gear against rotation in one direction whereby said engine may drive said propeller and said propeller may overrun said engine in the same direction of rotation, manually actuatable clutch means operatively associated with said sun gear and the relatively fixed structure of said engine to normally restrain said sun gear against rotation in either direction to provide a two-way driving connection between said engine and said propeller, and means associated with said friction clutch for adjusting said controllable pitch propeller to its high pitch condition whenever said friction clutch is released to provide a one-way driving connection between said engine and said propeller.

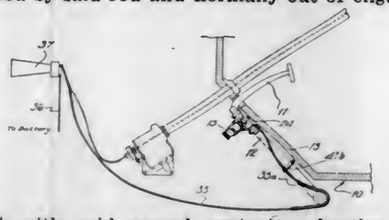
2,156,751

EMERGENCY AUTOMOBILE HORN SOUNDER

Martin M. Collins, Danbury, Conn.

Application September 6, 1934, Serial No. 742,877
7 Claims. (Cl. 200—52)

1. In combination with a motor vehicle having a foot operated brake pedal, an inertia operated electric switch mounted upon the shank of said brake pedal, said switch including a casing, a pair of spaced contacts within said casing, a rod slidably mounted in one end of said casing, an inertia operated member loosely mounted in said casing between the inner end of said rod and the adjacent end of said casing, a bridge contact carried by said rod and normally out of engage-



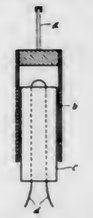
ment with said spaced contacts, whereby the force produced only by the quick initial actuation of said brake pedal will cause said inertia operated member to forcibly strike the inner end of said rod and move said bridge contact into contacting engagement with said pair of fixed contacts, and tension means acting upon said rod to regulate the sliding movement thereof.

2,156,752

HOT CATHODE DISCHARGE TUBE

Herbert Daene, Berlin-Friedenau, Germany, assignor to Allgemeine Elektricitats Gesellschaft, Berlin, Germany, a corporation of Germany

Application August 8, 1932, Serial No. 627,894
In Germany August 20, 1931
2 Claims. (Cl. 250—27.5)



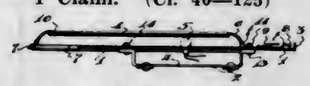
1. In an electron tube, a heater element, a sleeve surrounding the heater element and adapted to become heated thereby, a pin-like member attached to one end of the sleeve so as to become heated from the sleeve, and an electron emitting material supported only upon the end portion of the pin-like member remote from the sleeve member.

2,156,753

NONREMOVABLE ILLUMINATED LICENSE PLATE FOR MOTOR VEHICLES

Frank E. Dunnam and Robert H. Schmidt, Fort Worth, Tex., assignors of one-third to R. L. Dewees, Tarrant County, Tex.

Application May 27, 1935, Serial No. 23,734
1 Claim. (Cl. 40—125)



In a license plate for motor vehicles, the combination of a rectangular supporting plate, a rectangular frame having an opening in the face thereof, slots in three edges of the said rectangular frame for slidable engagement with three edges of the said supporting plate, a transparent indicia bearing plate covering the said opening, a tension spring mounted on the first named

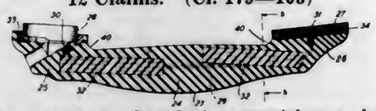
plate for engagement with the inner side of the said frame, and a spring guard positioned over the said spring.

2,156,754

TELEPHONE HAND-SET

William A. Evans, Ridgewood, N. J., and Walter W. Werring, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 11, 1935, Serial No. 30,834
12 Claims. (Cl. 179—103)



1. A telephone handset comprising a handle portion of a body of insulating material having a reenforcing insert of insulating material.

2,156,755

COATED FIBROUS SHEET

Erich Gebauer-Fuelnegg, deceased, late of Evanston, Ill., by Marie Gebauer-Fuelnegg, administratrix, Evanston, Ill., and Eugene W. Moffett, Chicago, Ill., assignors, by mesne assignments, to Marbo Patents, Inc., a corporation of Delaware

No Drawing. Application July 31, 1937, Serial No. 156,750
4 Claims. (Cl. 91—68)

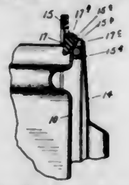
1. A thin, flexible article of manufacture comprising a thin, flexible sheet of vegetable parchment having a coating thereon of a composition comprising a rubber hydrochloride and a resin selected from the group consisting of chlorinated diphenyls, polycumarones, rosin, copal, phenol-aldehyde resins, ester gums and dammar gum.

2,156,756

HOOK FOR RECEPTACLE COVERS

Andrew H. Gerhardt, Chicago, Ill., assignor to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois

Application May 28, 1937, Serial No. 145,187
4 Claims. (Cl. 220—85)



4. A hook mounted on a cover for supporting it in a substantially upright position, said hook comprising a solid block of resilient material having a surface formed to engage a supporting shoulder and having one end projecting through and anchored in an aperture in the cover.

2,156,757

DENTAL CASTING ALLOY

Cornell Joel Grossman, Millburn, N. J.

No Drawing. Original application July 6, 1938, Serial No. 217,721. Divided and this application March 21, 1939, Serial No. 263,189
3 Claims. (Cl. 75—171)

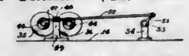
1. A dental casting alloy adapted to be repeatedly re-melted and cast into substantially sound cast dentures, said alloy comprising chromium 5–30%, cobalt 10–50%, at least one of the group of metals tungsten and molybdenum in amounts ranging from 1–4% and 2–8% respectively, boron 1–10%, the balance of the alloy consisting of nickel.

2,156,758

INKING DEVICE

Heinrich E. Haase, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Original application December 7, 1936, Serial No. 114,689. Divided and this application July 8, 1937, Serial No. 152,641
1 Claim. (Cl. 101—363)



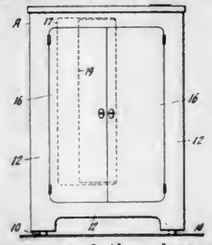
In a printing device including an ink applying roller, means for intermittently applying ink to the ink applying roller comprising an overhead ink reservoir having a bottom opening therein, a freely rotatable feed roller rotatably mounted in said opening, means including an arm pivotally mounting the ink reservoir for movement from and toward the ink applying roller and cam means engageable with the arm, said cam means being operable to permit movement intermittently of the feed roller into positive periodical rotatable contact with the ink applying roller to deposit ink thereon and to positively remove the feed rollers from the ink applying roller following the deposit of the ink thereon.

2,156,759

CABINET DOMESTIC APPLIANCE

John T. Hume, Chicago, Ill., and Colby Van Westrum, Houston, Tex., assignors to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois

Application September 10, 1936, Serial No. 100,104
25 Claims. (Cl. 38—1)



1. In a structure of the class described, the combination with a cabinet; of an ironer unit arranged to occupy a vertical position within the cabinet and a horizontal operating position exteriorly of said cabinet; means associated with said cabinet and ironer unit for supporting the ironer unit in either of its positions and for turning the ironer unit in its movement from one position to the other; power-transmitting means carried by said last named means for actuating the ironer unit; and a motor fixedly mounted within the cabinet and operatively connected to said power-transmitting means for actuating the latter.

2,156,760

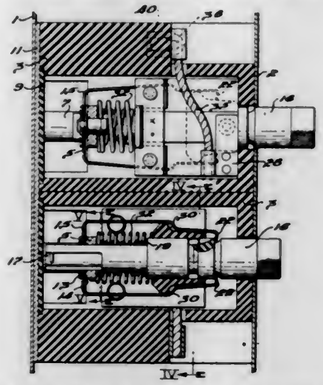
CIRCUIT BREAKER

John G. Jackson and Wallace T. Allen, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan

Application October 31, 1935, Serial No. 47,524
10 Claims. (Cl. 200—116)

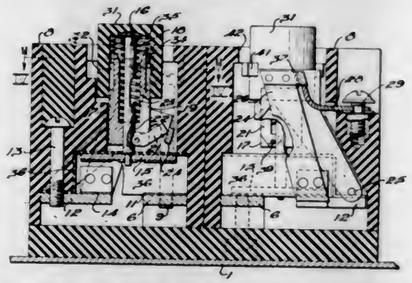
1. Electric circuit breaker apparatus comprising a plurality of aligned, spaced circuit breaker

mechanisms including relatively movable contacts and means for automatically separating said contacts in response to overload, a common, elongated bus bar for said mechanisms having



one contact of each mechanism conductively supported thereon in positions spaced along its length, and a sealable enclosure for said mechanisms and bus bar preventing access thereto.

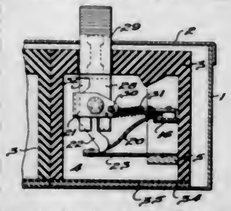
2,156,761
CIRCUIT BREAKER
John G. Jackson and Wallace T. Allen, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application October 31, 1935, Serial No. 47,525
19 Claims. (Cl. 200—116)



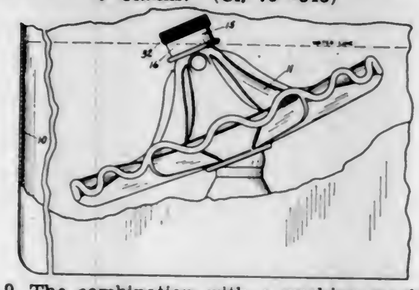
1. Electric circuit breaker apparatus comprising an insulating base, a conductor mounted on said base, a plurality of cup-shaped insulating members mounted over said conductor and cooperating with said base to form sealable enclosures, a circuit breaker mechanism within each enclosure and an operating member for each mechanism projecting through the enclosures.

2,156,762
CIRCUIT BREAKER
John G. Jackson and Reinhold Mueller, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application October 31, 1935, Serial No. 47,526
16 Claims. (Cl. 200—116)

1. An electric circuit breaker comprising a plurality of individual mechanisms including separable contacts and means for automatically separating said contacts in response to overload, said means including a bimetallic latch, a common bus for said mechanisms, one end of said latches being rigidly mounted on said bus in conducting relation thereto, and means connecting the other end of each of said latches to a contact of its respective mechanism.

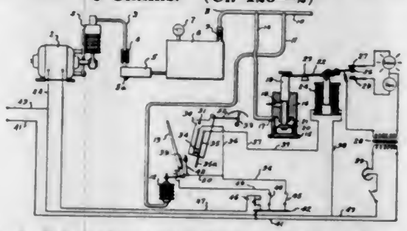


2,156,763
TEMPERATURE INDICATING DEVICE FOR WASHING MACHINES
David A. Lundy, Riverside, Ill., assignor to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application February 17, 1937, Serial No. 126,173
9 Claims. (Cl. 73—343)



9. The combination with a washing machine having a tub adapted to contain washing fluid and clothes to be washed; a movable impeller member in the tub, a head having a chamber therein mounted upon the upper end of the impeller member, and a temperature indicating means enclosed in said chamber for indicating the approximate temperature ranges of the washing fluid, said head including a transparent portion through which indications of the indicating means are readable.

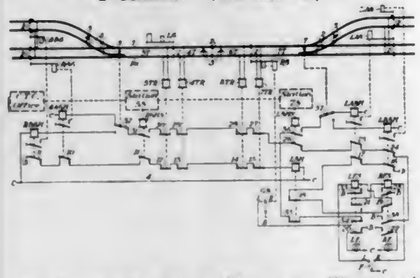
2,156,764
DIAGNOSTIC AND THERAPEUTIC APPARATUS
George Lyford, Cincinnati, Ohio
Application June 11, 1937, Serial No. 147,751
6 Claims. (Cl. 128—2)



1. A diagnostic and therapeutic apparatus for the purposes described, comprising means for producing pressure, means for storing pressure, means for applying said pressure gradually to a patient, and means for automatically discontinuing the pressure on the patient upon the relief of an obstruction to said pressure within the patient.

6. A method of treating pelvic pathology involving stricture of the Fallopian tubes in the female, which includes the steps of subjecting said tubes to a gradually increasing pressure, and causing the attainment of a predetermined maximum pressure, or the opening of one or both of the tubes, to automatically discontinue the pressure on the tubes.

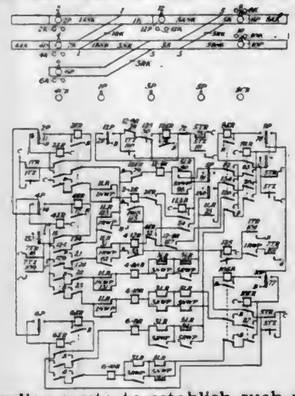
2,156,765
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ronald A. McCann, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 18, 1936, Serial No. 91,256
4 Claims. (Cl. 246—3)



1. In a centralized traffic controlling system for railroads, a single track stretch, two signals including one at each end of the stretch for governing the movement of traffic in opposite directions into the stretch, a remotely controlled relay at each end of the stretch, a pair of directional relays including one for each direction, a manually controlled pickup circuit for each directional relay closed only when said stretch is unoccupied, a stick circuit for each directional relay including its own front contact and a back contact of the other directional relay, and control circuits for said signals controlled in accordance with traffic conditions in said stretch, each including a front contact of the remote controlled relay at the same end of the stretch and a front contact of the directional relay for the corresponding direction.

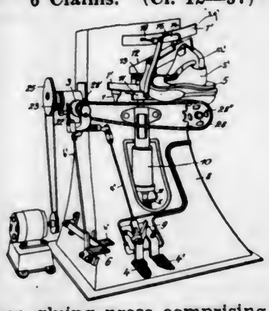
2,156,766
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ronald A. McCann, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 17, 1938, Serial No. 196,435
27 Claims. (Cl. 246—134)

1. In an interlocking control system, a track layout including a plurality of track sections interconnected by track switches to form different traffic routes, signals for governing traffic movements over said routes, a route relay for each different route through the track layout, a pair of stick relays for each route end including an entrance relay for one end and an exit relay for the other end of each route, a control relay for each track switch, a track relay for each track section, a manually controllable pickup circuit for each said stick relay, a stick circuit for each entrance relay controlled by a front contact of the track relay of the adjacent section of the corresponding route and by a back contact of the exit relay for the same end of the route, a stick circuit for each exit relay including a front contact of the entrance relay for the opposite end of the corresponding route and also including the winding of the route relay for such route, means controlled by each route relay when energized for operating the control relays for all of the track switches included in the



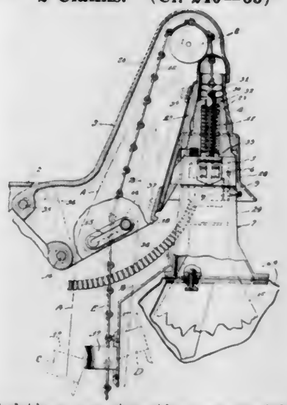
corresponding route to establish such route, and means controlled by each entrance stick relay and the route relay controlled thereby for clearing the signal governing traffic movements over such route.

2,156,767
SHOEMAKING MACHINE
Otto Michalk, Dresden, Germany; Martha Johanna Elisabeth Michalk, nee Voigt, Dresden, and Hans Joachim Michalk, Chemnitz, Germany, heirs of Paul Otto Michalk, deceased
Application March 19, 1936, Serial No. 69,639
In Germany March 27, 1935
6 Claims. (Cl. 12—37)



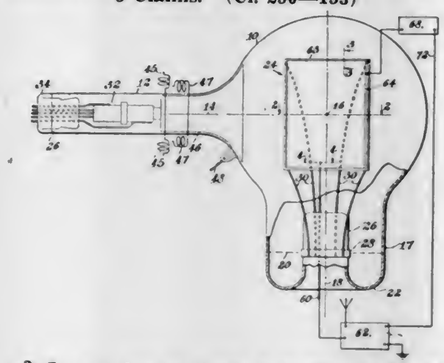
1. A shoe gluing press comprising a frame, a rotatable wheel carried by said frame, a plurality of circumferentially spaced apart press members carried by said wheel, each press member including a fixed clamping member, a movable clamping member, a rockable pressure lever carried by said fixed clamping member and having one end thereof secured to said movable clamping member, means engaging the lever intermediate the ends thereof for rockably supporting the lever on said fixed clamping member, a ratchet carried by said lever, a pawl engageable with said ratchet, means for swingably supporting said pawl from said fixed clamping member, a spring constantly holding said pawl and the supporting means therefor in operative position, means arranged on said frame engageable with said lever for moving said movable clamping member to clamping position, and means also arranged on said frame disposed laterally of said latter means for releasing said pawl.

2,156,768
LIGHTING CONSTRUCTION
George F. Niemann, Chicago, Ill., assignor to Benjamin Electric Mfg. Company, Chicago, Ill., a corporation of Illinois
Application February 24, 1936, Serial No. 65,347
2 Claims. (Cl. 240—65)



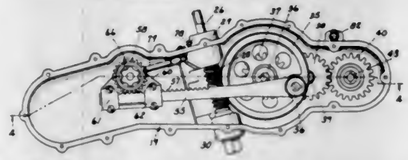
1. A lighting construction comprising a support, a bracket pivotally secured to said support to swing about a substantially horizontal axis, said bracket being provided with a downwardly-opening plug-receiving socket having electrical contacts, and a pulley mounted on said bracket above said socket, a lighting fixture having contacts for engagement with said first contacts and comprising a lamp socket, a reflector, and a plug for engaging said socket, a flexible pull member secured to said plug and extending over said pulley and thence downwardly between said fixture and said horizontal axis for drawing the plug into the socket, and guide means for said flexible pull member carried by said bracket below said pulley comprising a pulley mounted on said bracket and having space on each side thereof adjacent its periphery whereby the flexible pull member may be placed on either side of said pulley.

2,156,769
CATHODE RAY DEVICE
Gregory N. Ogloblinsky, deceased, late of Collingswood, N. J., by Vladimir K. Zworykin, administrator, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1935, Serial No. 8,667
5 Claims. (Cl. 250—153)



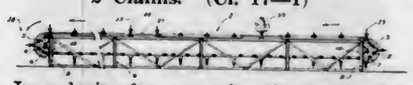
3. In an electron tube, a screen for an electron device comprising two sheets of insulating material held together, one of said sheets being substantially thicker than the other, the inside surface of the thinner sheet being provided with a layer of conductive material, the outside surface of the thinner sheet being provided with photosensitive elements spaced and insulated from each other.

2,156,770
LUBRICATION SYSTEM FOR DRIVE MECHANISM
Floyd L. Rocke, Bloomington, Ill., assignor to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application February 26, 1937, Serial No. 127,829
2 Claims. (Cl. 184—6)



1. The combination of a housing having a bottom formed with two portions disposed at different horizontal levels, the lower portion serving as a reservoir for a body of lubricant, driving mechanism mounted in said housing, including a worm and worm gear speed reducer, said worm being provided with stub shafts at opposite ends journaled in said housing, the inner wall of said housing adjacent one of said shafts being formed to provide a chamber surrounding the stub shaft and into which one end of said worm projects, means for rotating the worm for feeding the lubricant into the chamber, and a conduit connected at one end into said chamber while its opposite end extends above the level of the lubricant in said reservoir and is disposed adjacent another part of said driving mechanism for supplying lubricant thereto.

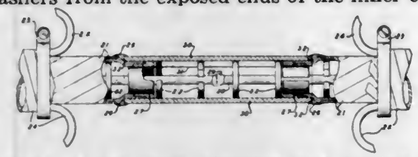
2,156,771
HOG-HEAD CONVEYER
Bernard J. Sadoff, Buenos Aires, Argentina, assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application May 10, 1937, Serial No. 141,854
2 Claims. (Cl. 17—1)



2. In a device for conveying the heads of animal carcasses, a pivot carrier, a roller loosely mounted on the carrier, a support above the roller, a head carrying pin extending through the support and roller and mounted in the carrier, the said support and carrier constituting side bearings for said roller, a conveying means and a guide means associated with said conveying means and said pivot carrier for causing said pin to be shifted laterally in opposite directions successively.

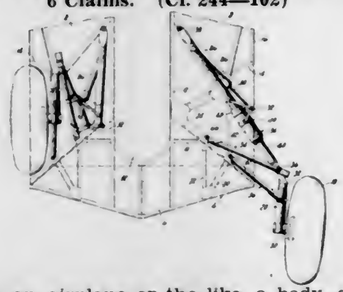
2,156,772
METHOD OF SPLICING A CABLE
George A. Seeley, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 25, 1936, Serial No. 70,795
1 Claim. (Cl. 174—21)

A method of splicing two ends of cable having a coaxial conductor pair with washers between the conductor pair and a sheath thereover which comprises the steps of stripping back the sheath on each of the said ends, cutting back the ends of the outer conductors of the pairs to be joined, necking down the cut back ends, stripping the washers from the exposed ends of the inner con-



ductors of the pairs, abutting and joining the ends of the inner conductors of the pairs, replacing the removed washers, forming an auxiliary sheet of metal into a tube enclosing the necked down ends of the two outer conductors, and joining the tube to the two outer conductors.

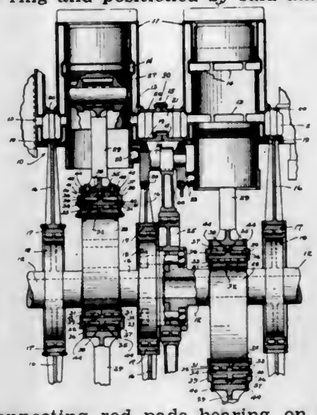
2,156,773
RETRACTABLE LANDING GEAR
Igor I. Sikorsky, Trumbull, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 14, 1936, Serial No. 79,643
6 Claims. (Cl. 244—102)



1. In an airplane or the like, a body, an undercarriage having a jointed strut, an offset hinge on the joint of the strut to permit a folding movement thereof, a wheel carrying axle pivotally connected to the lower end of said strut, a recess in said body, brace members pivotally connected to spaced points on said axle and to said body adapted to guide said wheel into said recess, means independent of said hinge connecting the two parts of said jointed strut; and means acting upon said connecting means for retracting said landing gear, into said recess, the relative length of said strut portions and the positions of the pivot points of said strut and braced members being such that breaking of the hinge joint and retracting said landing gear will reverse the position of the portion of said strut between said hinge joints and said axle.

2,156,774
ENGINE
Edward T. Vincent, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application April 12, 1935, Serial No. 15,978
1 Claim. (Cl. 74—580)

A radial engine crank assembly including a crankshaft having a crank portion, a plurality of connecting rods one for each engine cylinder and each provided with a slipper type pad at the inner end of the rod, means operatively connecting said connecting rods with said crankshaft crank portion including a floating ring encircling said crank portion and provided with an outer annular rib, anti-friction devices intermediate said crank portion and said floating ring, anti-friction devices supported on the outer surface of said ring and positioned by said annular rib,



said connecting rod pads bearing on said last mentioned anti-friction devices, and retaining rings secured to said floating ring for restraining said last mentioned anti-friction devices and said connecting rod pads from lateral displacement.

2,156,775
FOUNTAIN PEN IDENTIFYING DEVICE
Edward Zimmer, Newark, N. J., assignor to David Kahn, Inc., North Bergen, N. J., a corporation of New Jersey
Application November 27, 1936, Serial No. 112,947
4 Claims. (Cl. 40—140)

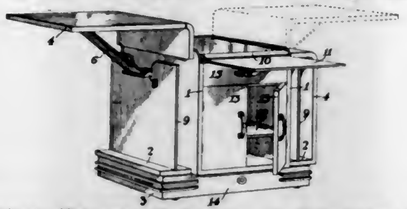


4. The combination with an article having a groove, a base plate secured to the article and having a slot with one edge overlying and disposed between the sides of said groove, and a legend bearing plate fitted in said slot and having an offset tongue snugly inserted between the bottom of said groove and the portion of said base plate overlying the groove.

2,156,776
WRITING CABINET
Edmund C. Drover, Wausau, Wis.
Application October 6, 1937, Serial No. 167,594
1 Claim. (Cl. 312—164)

A cabinet or the like comprising a central body, a base for said body extending from one side thereof, a leaf arranged at one side of the body and including an elongated side piece and a short right angularly extending top piece, means hingedly securing the outer edge to the top piece

to the side of the body adjacent to the upper surface of the body and above the part of the base which extends beyond the body whereby when the leaf is in lowered position the elongated side piece will be disposed in spaced parallel relation to one side of the body with its lower edge resting



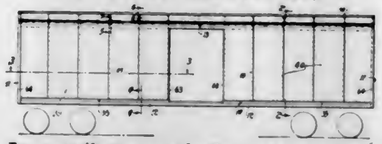
against the extended part of the base, and whereby when the leaf is in a raised position the elongated side piece will be disposed in parallel relation to the top of the body but in a plane above the top of the body, and means for detachably holding the leaf in a raised position.

2,156,777
SAFETY TREAD
Otho C. Duryea, Waterbury, Conn.
Application July 11, 1936, Serial No. 90,162
4 Claims. (Cl. 94—5)



1. A safety tread comprising a plate-like member having a plurality of drainage openings therethrough and a plurality of relatively sharp edged projections extending from at least one side of said plate-like member, each adjacent a portion only of certain of said openings, said side of said plate-like member being formed to provide inclined grooves that open into one side of certain of said openings, the plate-like member being flat beneath said grooves.

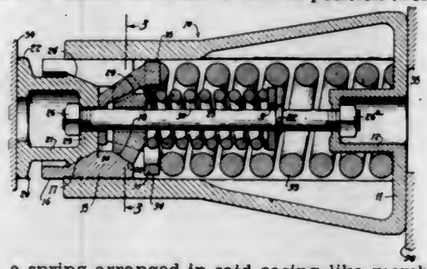
2,156,778
CLOSED TOP CAR BODY
Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, New York, N. Y., a corporation of Delaware
Application October 14, 1936. Serial No. 105,488
10 Claims. (Cl. 105—409)



1. In a railway car body, means providing a metallic body side sill including a vertical part and a horizontal part, a riser plate having its outer face arranged in the plane of the outer face of the vertical part of the sill and having its bottom margin bent inwardly so that its bottom edge engages upon the horizontal part of the sill in a plane spaced inwardly from the said face of said vertical part so as to define a groove, a line of weld in said groove to secure the riser plate to the sill member, and a metallic sheathing having a bottom margin overlapping the top margin of the riser plate and secured thereto.

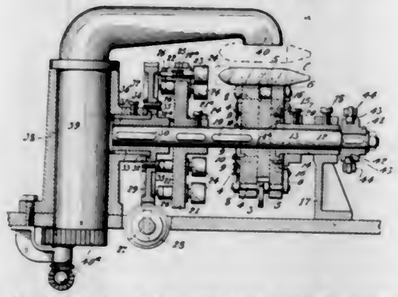
2,156,779
CUSHIONING DEVICE FOR RAILROAD CARS
Otho C. Duryea, Waterbury, Conn.
Application June 3, 1937, Serial No. 146,187
13 Claims. (Cl. 267—9)

1. In a cushioning device for railroad cars, the combination of means providing a casing-like member open at one end, means providing a pressure receiving member associated with the open end of the casing-like member and relatively movable in an axial direction toward and away from the other end of said casing-like member, means providing a friction mechanism between said pressure receiving member and said open end of the casing-like member, means directly engaged with both said casing member and said pressure receiving member for limiting the relative movement of said members away from each other to define the relative normal position there-



of, a spring arranged in said casing-like member and engaged at one end against the other end of the casing, a pressure transmitting member between said pressure receiving member and said spring and through which said spring cooperates with said friction mechanism in offering resistance to the relative movement of one of said members from its normal position to a second position under the action of a load imposed upon one of said members, said spring upon release of load operating directly through said pressure transmitting member upon the moved member to return the same to its normal position.

2,156,780
APPARATUS FOR FORMING CIGAR TIPS
Rudolf Otto Friedrich Ebert, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinenfabrik J. C. Mueller & Co., Dresden, Germany
Application April 28, 1937, Serial No. 139,477
In Germany July 4, 1936
9 Claims. (Cl. 131—39)



5. An apparatus for heading cigars, comprising a centrally disposed shaft, means for rotating the shaft, means for axially moving the shaft, a drum on said shaft rotatable therewith but not axially movable thereby, a plurality of means for holding cigars on said drums, means for supplying cigars to the drum, means for removing cigars from said drum, cam means for holding cigars on the drum and releasing cigars from the drum, means for pressing the tips of the cigars while on the drum during the rotation of the drum, means for removing said last named

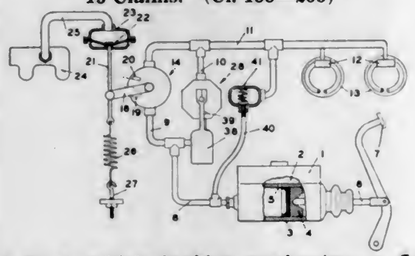
means from the cigars during the time when the cigars are being supplied and removed from the drum, the means for pressing the tips of the cigars acting intermittently upon the cigars, and drive means for actuating the reciprocatory pressing means and for rotating the drum.

2,156,781
MATCH PACKAGE
Henry L. Freeman, Chicago, Ill.
Application October 14, 1936, Serial No. 105,536
4 Claims. (Cl. 206—29)



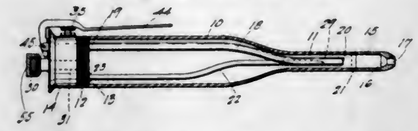
1. In a match package, the combination of a comb of matches including a plurality of splints removably mounted on a connecting portion, an inner cover for said comb comprising a single strip of material folded around the connecting portion thereof and having cover sections extending upwardly from the fold to overlie the heads of the matches, an outer cover for said comb and inner cover comprising a single strip of material folded around the heads of said matches and having cover sections extending downwardly from the fold, the ends of said outer cover sections overlying said connecting portion of said comb and the parts of said inner cover adjacent said connecting portion, means for pivotally securing said connecting portion and said inner cover between the end of said outer cover and a portion of said inner cover extending beyond the confines of said outer cover.

2,156,782
BRAKE CONTROL MECHANISM
Walter R. Freeman, University City, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application March 6, 1937, Serial No. 129,371
Renewed September 8, 1938
15 Claims. (Cl. 188—265)



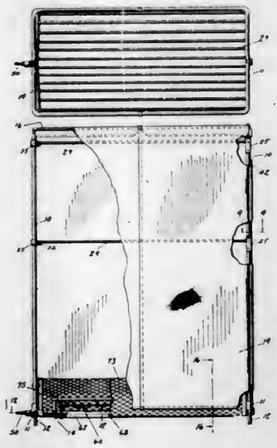
1. In a vehicle braking mechanism, a fluid-actuated brake unit, a source of fluid pressure connected to the brake unit, said connecting means embodying two passages each of which is capable of conveying fluid to the brake unit, a valve in each of said passages for preventing return flow of fluid therethrough, power-operated means for controlling one of said valves, and gravity-actuated means for controlling the other of said valves.

2,156,783
SPRAY GUN
Preston W. Hovey and Charles L. Thompson, Oakland, Calif.
Application December 17, 1937, Serial No. 180,358
10 Claims. (Cl. 299—140)



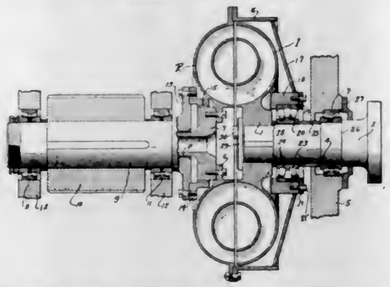
7. A mixing and atomizing tip for spray guns comprising a first tube terminating in a mixing and atomizing portion; a second tube of smaller diameter and imbedded into the mixing and atomizing portion of the first tube, forming a crescent shaped passage between the inner wall of the first tube and outer wall of the second tube and terminating in a beveled end in spaced relation to the end within the mixing and atomizing portion of the first tube, to increase the length of wipe or draw on fluid emerging from the second tube by fluid forced through the crescent shaped passage.

2,156,784
CLOTHES DRIER
Joseph W. Jensen, Chicago, Ill., assignor to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application June 23, 1937, Serial No. 149,827
13 Claims. (Cl. 34—26)



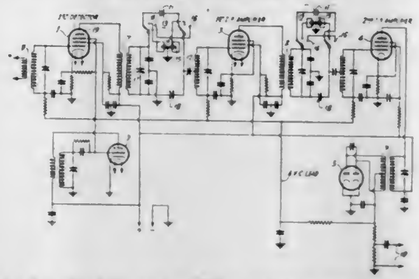
1. In a clothes drier, in combination, an upright frame structure formed to provide a relatively large opening at its upper end, a heating element carried by the frame adjacent the floor, means carried on the frame above the heating element for supporting articles to be de-hydrated, flexible sheet material supported at its upper edge on the upper portion of the frame and normally suspended in vertical direction forming a lateral wall for enclosing the article suspending means, the lower edge of said flexible sheet terminating above the floor to provide air-draft from all directions, and a reticulated body surrounding the heating element in spaced-apart relation and dimensioned to be engaged by the lower portion of said flexible sheet of material to support it out of contact with the heating element.

2,156,785
HYDRAULIC CLUTCH ASSEMBLY
Austin Kuhns, Buffalo, N. Y., assignor to Farrel-Birmingham Company, Incorporated, Buffalo, N. Y., a corporation of Connecticut
Application February 26, 1938, Serial No. 192,735
2 Claims. (Cl. 60—54)



1. In a power transmission assembly of the class described, a hydraulic clutch structure comprising opposed impeller and runner elements, a drive shaft secured to one of said elements, a bearing frame forming part of the other element and surrounding said shaft, and a self-aligning thrust bearing within said bearing frame comprising an outer race seated in said frame and an inner race surrounding said shaft and anti-friction members between said races, said bearing functioning to absorb the thrust created by the hydraulic clutch when in operation and to permit relative angular shift of the axes of said elements, said inner race being of larger diameter than said shaft whereby to provide clearance so that the axes of said elements need not necessarily be in axial alinement.

2,156,786
VARIABLE BAND-PASS FILTER CIRCUITS
James J. Lamb, West Hartford, Conn., assignor to Radio Corporation of America, a corporation of Delaware
Application July 9, 1937, Serial No. 152,728
4 Claims. (Cl. 178—44)



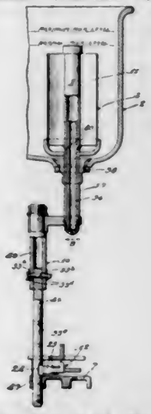
1. An electric wave filter system comprising a plurality of selectively operable band-pass circuits one of said circuits including a quartz piezo-electric device, another of said circuits including a mechanically resonant element in association with input and output piezo-electric elements of Rochelle salt, means including a variable impedance effectively in series with a selected one of said circuits for varying the frequency band width of said filter system, and means in shunt with said selected one of said circuits for applying thereto a phase displaced voltage whereby undesired signal frequencies are suppressed.

2,156,787
ELECTRIC LIGHT MOUNTING
Louis Lander, St. Louis, Mo., assignor to North American Electric Lamp Company, St. Louis, Mo., a corporation of Missouri
Application October 25, 1937, Serial No. 170,723
5 Claims. (Cl. 240—37)



1. In an electric light mounting, the combination with a pseudo burner base adapted for engagement with a lamp stand and having means for supporting a chimney, of a socket mounted on said base, a lamp bulb in said socket having its upper portion flattened, and a dome surrounding the socket and bulb, said dome having a slotted top through which the margin only of said flattened portion projects to simulate the flame of a flat wick.

2,156,788
LIQUID MEASURING AND FILLING APPARATUS
Olaf Larsen, Oak Park, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a corporation of Illinois
Application November 8, 1937, Serial No. 173,320
4 Claims. (Cl. 226—97)



2. A liquid measuring and filling apparatus comprising a liquid reservoir having an opening in its under side, a sleeve slidable in said opening, a measuring cup in said reservoir open at its top, mounted on said sleeve and movable therewith from a filling position in which its upper edge is below the liquid level in the reservoir to a discharge position in which its upper edge is above said liquid level, a discharge tube fitting inside said sleeve and fixed with respect to said reservoir, said sleeve having a passage affording communication between said measuring cup and discharge tube when the measuring cup is in discharge position and closed when the measuring cup is in filling position, means for presenting a container into filling position with respect to said discharge tube, power means for raising said sleeve to move the measuring cup to discharge position, transmission means between said power means and sleeve, and means for connecting and disconnecting the said transmission between the power means and sleeve controlled by the presence or absence of a container on said presenting means.

2,156,789
WEED KILLER
Edmund C. Missbach, Oakland, Calif., assignor to Wheeler, Reynolds and Stauffer, a corporation of California
No Drawing. Application May 19, 1937, Serial No. 143,517
8 Claims. (Cl. 167—45)

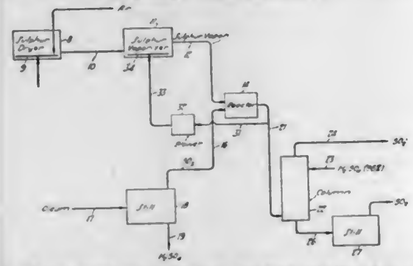
1. A soil fumigant and weed killer consisting of carbon bisulfide containing 10% or less of a dichlor benzene.

2,156,790
WETTABLE SULPHUR COMPOSITION
Edmund C. Missbach, Oakland, Calif., assignor to San Francisco Sulphur Company, a corporation of California
No Drawing. Application June 1, 1937, Serial No. 145,805
6 Claims. (Cl. 167—20)

1. A method of manufacturing a sulphur for use in an aqueous spray comprising mixing a dry but water soluble wetting agent with a dry solid, inert finely divided filler material until said agent is substantially uniformly distributed throughout said dry filler material, and mixing sufficient of said dry mixture with dry, finely divided sulphur to incorporate into said sulphur about 1% of said wetting agent.

3. As a material for use in an aqueous spray substantially free flowing dry powdered sulphur containing about 1% of a dry non-hygroscopic finely divided wetting agent carried on about an equal volume of an inert finely divided dry solid filler acting as a carrier for said agent.

2,156,791
PROCESS FOR PRODUCTION OF SULPHUR DIOXIDE
Albert C. Mohr, Berkeley, Calif., assignor to Stauffer Chemical Company, a corporation of California
Application July 6, 1937, Serial No. 152,082
2 Claims. (Cl. 23—177)



1. A process of forming substantially dry pure SO_2 which comprises reacting sulphur vapor, at a temperature above the boiling point of sulphur, with gaseous undiluted sulphur trioxide, with heat supplied by said reaction, to form a gaseous mixture of SO_2 and SO_3 and removing SO_3 from the mixture.

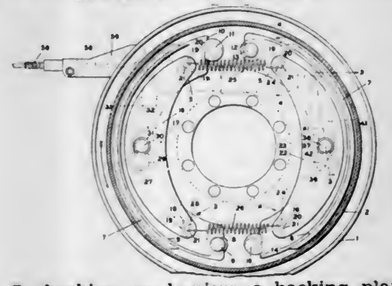
2,156,792
PREPARATION OF DERIVATIVES OF N-PHENYL-ARYLAMINES
Arthur M. Neal and George C. Strouse, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 25, 1936, Serial No. 92,604
18 Claims. (Cl. 260—571)

1. In a process of preparing hydroxy and amino substituted N-phenyl-arylamines, the steps which comprise mixing substantially theoretical proportions of a dihydroxy substituted hydrocarbon of the benzene series and a primary aromatic amine in which the aromatic nucleus is a member of the group consisting of aromatic radicals of the benzene and naphthalene series, and condensing them in the presence of a small amount, about 0.5% to about 3.5% based on the total amount of amine and hydroxy compound, of zinc chloride, and in the absence of an aqueous solvent at temperatures of about 170 to about 280° C.

2,156,793
PREPARATION OF DERIVATIVES OF N-PHENYL-ARYLAMINES
Arthur M. Neal, Wilmington, Del., and George C. Strouse, East Aurora, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application July 25, 1936, Serial No. 92,604. Divided and this application January 15, 1938, Serial No. 185,154
19 Claims. (Cl. 260—571)

1. In a process of preparing hydroxy and amino substituted N-phenyl-arylamines, the steps which comprise mixing substantially theoretical proportions of a dihydroxy substituted hydrocarbon of the benzene series and a primary aromatic amine in which the aromatic nucleus is a member of the group consisting of aromatic radicals of the benzene and naphthalene series, and condensing them in the presence of about 0.5% to about 3.5%, based on the total amount of amine and hydroxy compound, of aluminum chloride, and in the absence of an aqueous solvent at temperatures of about 170 to about 280° C.

2,156,794
BRAKING MECHANISM
Steve Schnell, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application December 16, 1936, Serial No. 116,048
12 Claims. (Cl. 188—78)



1. In braking mechanism, a backing plate, a brake drum, two continuous shoes positioned in

end-to-end relation and adapted to cooperate with the drum, means carried by the backing plate adjacent each end of each shoe for anchoring said ends depending upon the direction of rotation of the drum, an actuating member for each brake shoe, each member extending between and engaging the ends only of its shoe for moving said ends into engagement with the drum, and fluid pressure-operated means comprising a fluid motor exterior to the backing plate and having a movable element connected to each actuating member for simultaneously applying pressure to each of said actuating members.

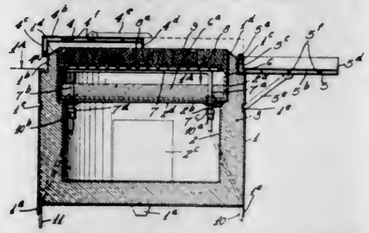
2,156,795

DETACHABLE REFRIGERATED CUTTING BLOCK APPARATUS

Beauford B. Smith, San Diego, Calif.

Application June 14, 1937, Serial No. 148,122

12 Claims. (Cl. 62—11)



1. In a detachable refrigeration cutting block apparatus, a unitary insulated box member open at its upper end, an encased refrigerating coil, cutting surface block support, and blocks, readily detachably supported in the upper end thereof.

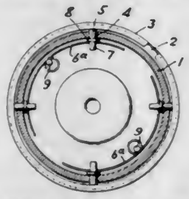
2,156,796

METALLIC PACKING FOR PISTONS

William Smiley Adams, Philadelphia, Pa.

Application December 29, 1937, Serial No. 182,176

2 Claims. (Cl. 309—43)



1. A hollow piston having a crank pin element and having a split packing ring and groove and provided with an expander mechanism comprising plungers arranged and extending through the piston wall and working on the same packing ring, floating arcuate bow springs acting on the plungers in pairs and constituting separate elements from the plungers and disposed inside the piston and supported in proximity with its periphery and remote from the center of its head, the support for the springs consisting of posts disposed diametrically opposite the crank pin element and mounted in the piston head and around which the springs are loosely coiled, and the portions of each spring adjacent to and on each side of a post arranged to operate respectively on one of the plungers, and means for maintaining the springs in sliding contact with the inner ends of the plungers, and the surfaces of said expander mechanism being directly exposed inside the piston to lubricating oil.

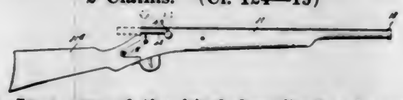
2,156,797

AIR GUN

James P. Appleby, Anoka, Minn., assignor to Federal Cartridge Corporation, Anoka, Minn., a corporation of Minnesota

Application March 15, 1937, Serial No. 130,922

2 Claims. (Cl. 124—15)



1. In a gun of the kind described, a barrel, a forwardly pressed projectile-ejecting plunger working in said barrel, means for holding said plunger retracted and for releasing the same, and means for retracting said plunger comprising a rack secured on said barrel, a second rack slidable in said barrel, a hand-piece for retracting said slidable rack, and gear mechanism meshing with said two racks and arranged to travel longitudinally of said barrel, and a retracting link having its rear end journaled on the hub of said gear mechanism and its front end detachably engageable with said ejecting plunger to retract the same, said link, hand-piece, gear mechanism and sliding rack being freely movable to forward positions, while said plunger is latched in a retracted position.

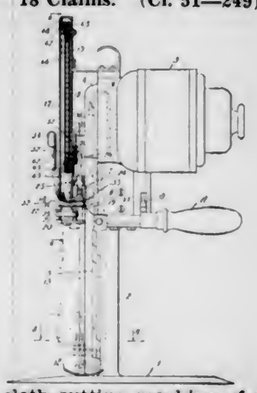
2,156,798

CLOTH-CUTTING MACHINE

William Bangser, New York, N. Y., assignor to H. Maimin Company, Incorporated, a corporation of New York

Application April 16, 1938, Serial No. 202,430

18 Claims. (Cl. 51—249)



1. In a cloth-cutting machine of the reciprocating knife type having a guard, the combination of stones for sharpening the knife mounted, when not in use, beyond the guard, means for rotating the stones, means for moving the stones past the guard while the latter is in operative position and into grinding engagement with the knife, means for traversing the stones along the length of the knife and back, and means for moving the stones past the guard while the latter is still in operative position and into their original position at the end of the grinding cycle.

2,156,799

FIREPLACE CLOSURE

Rome Robert Benedict, Chattanooga, Tenn., assignor of one-half to Andrew J. Corley, Jr., Chattanooga, Tenn.

Application September 4, 1936, Serial No. 99,435

5 Claims. (Cl. 126—140)

1. A combination of the character described

comprising a fire place having an opening, a frame seated in said opening, doors hingedly secured to said frame on either side thereof, said doors being comprised of screen or wire mesh



covered with grill work, a strip secured to the free end of one of said doors and engaging the other when in closed position, and means engaging said strip for preventing said doors from swinging open.

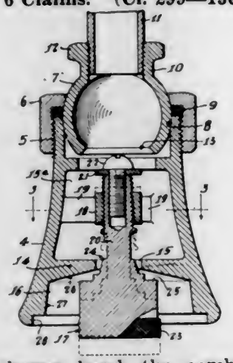
2,156,800

SHOWER HEAD

Ernest H. Bucknell and Ralph E. Bletcher, Los Angeles, Calif.

Application October 14, 1936, Serial No. 105,543

6 Claims. (Cl. 299—130)



6. In a shower head, the combination of a plug member and a body, the body member having a restricted throat, and means securing the plug member to the body member in relatively adjustable relation with respect to said throat, said plug member having a stepped external deflecting surface, said deflecting surface including portions disposed substantially normal to the direction of flow through said restricted throat, the body member having an annular skirt section housing a portion of the plug member, said skirt section providing deflecting surfaces against which the water deflected from the plug member impinges, said skirt surfaces cooperating with said stepped deflecting surface to break the flow of water into individual fine drops and to retard the velocity thereof.

2,156,801

METHOD OF AND MECHANISM FOR SEALING CAPPED CONTAINERS

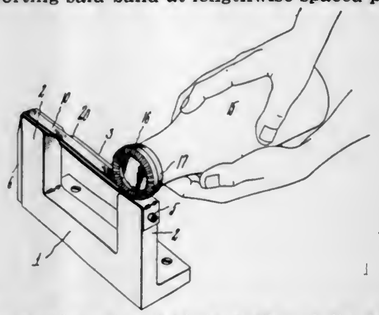
Kempton Clark, Little Compton, R. I., assignor to American Seal-Kap Corporation of Delaware, Long Island City, N. Y., a corporation of Delaware

Application December 18, 1936, Serial No. 116,507

5 Claims. (Cl. 216—33)

3. The method of sealing a capped container, which comprises wrapping said container in overlapping relation to its cap in a tensioned strip of stretchable sealing tape while continuously and progressively applying pressure against the outer face of said strip where it is being applied.

4. Apparatus for sealing capped containers, which comprises a stretchable band, means for supporting said band at lengthwise spaced points



with freedom to yield laterally of its length between said points, and means for engaging a stretchable sealing tape spaced from one end and overlying said band.

2,156,802

METHOD OF MAKING LEAD ALLOYS

Hugh S. Cooper, Shaker Heights, Ohio, assignor to Cooper Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application March 7, 1934, Serial No. 714,440

2 Claims. (Cl. 75—22)



1. The method of making a sintered metallic composition consisting of lead and other metal in which the lead is uniformly distributed which comprises reducing by hydrogen at a temperature less than the vaporization point of lead a uniform mixture consisting of lead oxide and the oxide of a metal reducible by hydrogen at a temperature below the vaporization point of lead, compressing the reduced composition to a desired shape, and subsequently sintering the compressed composition at approximately 500°.

2,156,803

LUBRICANT

Hugh S. Cooper, Shaker Heights, and Vivian R. Damerell, Cleveland, Ohio, assignors to Cooper Products, Inc., Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 3, 1934, Serial No. 723,794

2 Claims. (Cl. 87—9)

1. A lubricant comprising a lubricating oil or grease and a minor percentage of synthetic molybdenum sulphide substantially free from abrasive material.

2,156,804

MECHANISM FOR CUTTING AND APPLYING GLUE TO SHEET MATERIAL

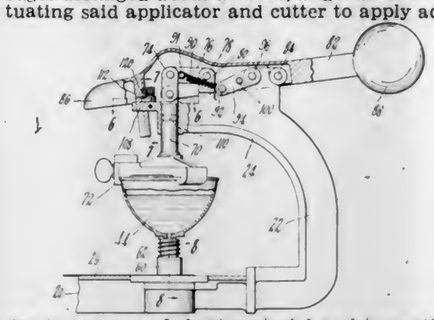
William C. Dorsch, Jamaica, N. Y., assignor to American Seal-Kap Corporation of Delaware, Long Island City, N. Y., a corporation of Delaware

Application November 27, 1936, Serial No. 112,965

10 Claims. (Cl. 91—14)

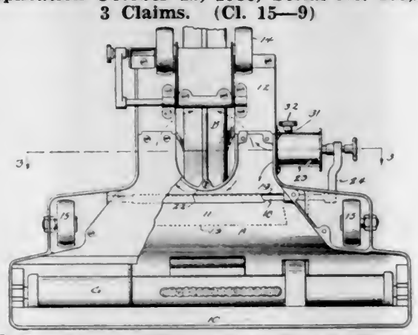
1. A machine comprising an adhesive applicator, a sheet material cutter having spaced cutting

edges arranged about an axis, and means for actuating said applicator and cutter to apply adhe-



sive to an area of sheet material and to partially cut around and sever said area from the remainder of the sheet material.

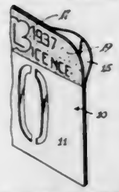
2,156,805
VACUUM CLEANER
Dewey M. Dow, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application October 12, 1936, Serial No. 105,257
3 Claims. (Cl. 15—9)



2. In a suction cleaner including a floor tool having a carpet engaging inlet mouth and auxiliary inlet, both adapted to receive suction from a fan carried by said floor tool, the combination, a valve mounted in said tool and adjustable to selectively direct suction to said inlet mouth or said auxiliary inlet, said auxiliary inlet including a tubular extension, an arm secured to said valve whereby said valve is adjusted, means carried by said arm and adapted to cover said auxiliary inlet when said valve is adjusted to direct suction to said inlet mouth, said means having a depressed central region adapted to be received in said auxiliary inlet, resilient means acting directly between said means and said arm urging said means into engagement with said auxiliary inlet, and said depressed central region serving to maintain said arm in fixed position when said valve is adjusted to admit suction to said inlet mouth.

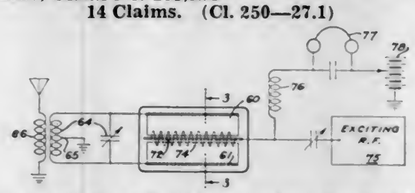
2,156,806
VEHICLE IDENTIFICATION AND SIGNALING DEVICE
Roger H. Ducey, Belmont, Mass.
Application June 25, 1937, Serial No. 150,228
1 Claim. (Cl. 40—133)

A license plate made of paper which is made opaque by means of paint or otherwise, there being license numbers cut through said plate, the means which renders the plate opaque being omitted from another region of the plate, and a mark being there, integrally embodied in the



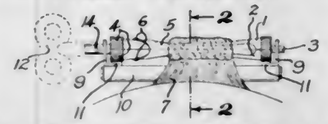
structure of the paper, visible by translucence, and constituting an authenticating mark.

2,156,807
DETECTOR
Philo T. Farnsworth, Springfield Township, Montgomery County, Pa., assignor to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware
Original application March 12, 1935, Serial No. 10,604. Divided and this application April 26, 1937, Serial No. 138,924
14 Claims. (Cl. 250—27.1)



1. A signal detector comprising an envelope containing a pair of opposed surfaces capable of emitting secondary electrons upon impact, and an anode positioned between said surfaces and energized to a positive potential, means for collecting a radio signal from space, means for applying a voltage derived from said signal to said surfaces as the sole a.-c. energization thereof, and means for utilizing current flowing in the anode circuit.

2,156,808
MEANS FOR TENSIONING HAIR
Roland W. Flinn, Oakland, Calif.
Application July 10, 1937, Serial No. 152,987
1 Claim. (Cl. 132—33)

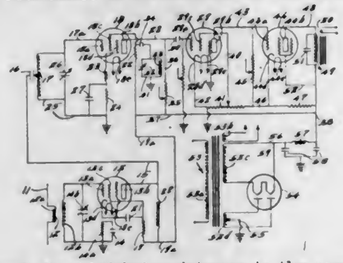


A hair waving bobbin comprising a pair of segments cooperating to form a mandrel member of substantially circular cross-section upon which hair may be wound, each of said sections having a central channel therein of elliptical contour, and a longitudinal cam member fitting in said channel and of such a cross-section as to force said segments apart when rotated, said cam being restrained from longitudinal movement.

2,156,809
RADIO RECEIVING SYSTEM
Stanley T. Fredrickson, Minneapolis, Minn.
Application March 4, 1937, Serial No. 128,940
3 Claims. (Cl. 250—2)

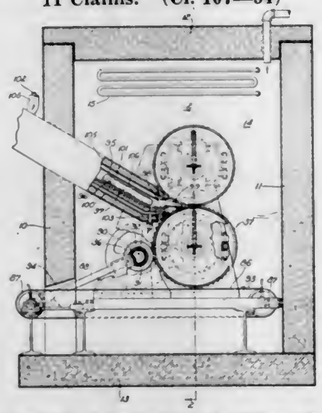
1. An amplifying system for a radio receiving set having in combination a vacuum tube for

amplifying a detected signal, said tube having plate, cathode, grid and screen grid electrodes, a second vacuum tube, a conductor connecting the plate of said first mentioned vacuum tube to the grid of said second tube, an adjustable resistance, one end of which is connected to said conductor and the other end of which is connected to the cathode of said second tube, a potential dividing resistance device having one end connected to the cathode of said first mentioned tube and its other end connected to the last mentioned end of said adjustable resistance and thus to the cathode of said second tube, an adjustable arm for said device connected to the screen grid of said first mentioned tube, a third resistance, a source of plate supply potential to which one end of said third resistance is connected, means connecting



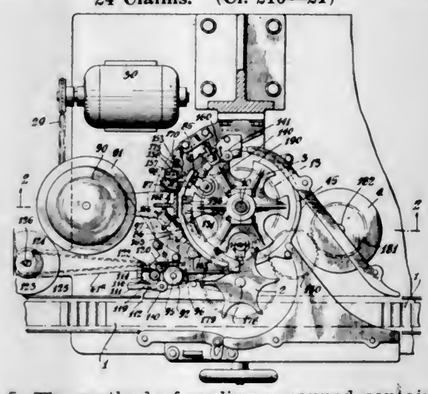
said end of said third resistance to the screen grid of said second tube, a signal transmitting device to which said last mentioned end is connected, a conductor connecting the other end of said signal transmitting device to the plate of said second tube and a conductor connecting the other end of said third resistance to the cathode of said second tube and to the last mentioned end of said adjustable resistance and also to said last mentioned end of said potential dividing resistance device, said adjustable resistance acting to block space current through said second tube when no signal is being received in said first mentioned tube but whereby a flow of current is permitted through said third resistance and through said adjustable resistance and between the plate and cathode of said first mentioned tube.

2,156,810
METHOD OF FORMING STICKS OR RIBBONS OF CHEWING GUM OR THE LIKE
Frank A. Garbutt, Los Angeles, Calif.
Application December 28, 1936, Serial No. 117,932
11 Claims. (Cl. 107—54)



1. A method of producing a ribbon of chewing gum which comprises: heating said gum to a plastic condition; forcing a portion of the plastic mass so produced between forming means to give it the desired shape; and maintaining the temperature of the surface of said forming means at a sufficiently low temperature to prevent the gum from adhering to said forming means without the application of sugar or other powdered material to the surface of the mass or to the forming means.

2,156,811
METHOD AND APPARATUS FOR SEALING CAPPED CONTAINERS
Carl W. Goodwin, Plainfield, N. J., and Ransom J. Daniels, Whitestone, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application October 2, 1937, Serial No. 166,986
24 Claims. (Cl. 216—21)



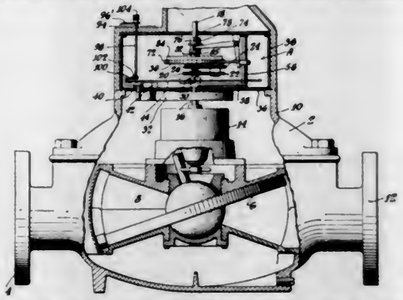
5. The method of sealing a capped container which comprises holding an end portion of a stretchable sealing strip in overlapping relationship to the cap and container, rotating the container to stretch the strip and wrap the same therearound and, prior to the completion of the wrapping movement, advancing a second rotating container into contact with the strip, securing the strip thereto and severing the strip between said containers.

14. In a machine of the class described, means continuously advancing a rotating container, means securing a flexible strip material thereto comprising a clamp rotatable with said container, a plurality of spaced pressure means positioned to successively engage the tape as the container is advanced for pressing the same against said container, means releasing the clamping means after the ends of the strip have been brought substantially into overlapping relationship.

2,156,812
TEMPERATURE COMPENSATOR FOR METER DRIVEN REGISTERS
Charles S. Hazard, New York, N. Y., assignor to Neptune Meter Company, a corporation of New Jersey
Application December 1, 1936, Serial No. 113,549
7 Claims. (Cl. 73—233)

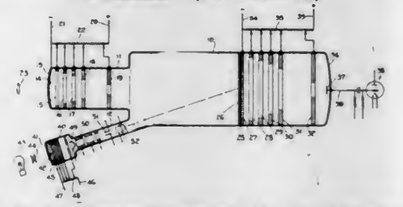
1. In a liquid measuring device, the combination of a meter, a register and means operatively connecting said meter and said register for automatically causing the latter to indicate liquid volumes at a predetermined temperature, comprising a shaft actuated in response to operation of said meter, a shaft connected to said register, planetary gearing connecting said shafts, said

gearing allowing a direct drive between said shafts when unrestrained, and varying the relative speeds of rotation of said shafts when restrained, means actuated by the first mentioned



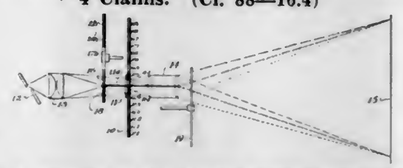
shaft for intermittently restraining the planetary gearing and temperature responsive means controlling the restraining means to vary the intermittent restraint on the planetary gearing.

2,156,813
ELECTRONIC CAMERA
Robert J. Kautz, Brooklyn, N. Y.
Application August 26, 1936, Serial No. 97,920
4 Claims. (Cl. 178—7.2)



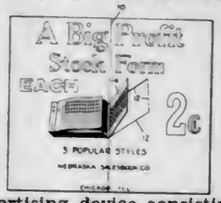
1. In an electronic camera the combination of photo-electric elements spaced apart from each other, a collecting plate, a willemite screen, said photo-electric elements, said willemite screen and said collecting plate having a common axis, means for affecting one of said photo-electric elements, electrostatic lenses associated with said photo-electric element for focusing the electrons emitted from the said one photo-electric element and directing said electrons unto the other said photo-electric element, and electrostatic lenses associated with said other photo-electric elements for focusing said electrons unto said willemite screen.

2,156,814
METHOD OF PROJECTING MOTION PICTURES IN NATURAL COLOR
Robert T. Killman and Thomas A. Killman, Nashville, Tenn.
Application December 21, 1936, Serial No. 116,899
4 Claims. (Cl. 88—16.4)



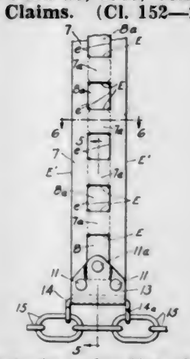
1. A method of exhibiting motion pictures in natural colors comprising simultaneously projecting, from a film bearing a succession of pairs of color separation images, two images constituting a pair upon a screen in superposition, each image being projected by light of substantially the same color as that by which it was photographed, and then projecting one image of that pair together with one image of another pair by means of light of a selected third color.

2,156,815
ADVERTISING FOLDER
Marvin B. Levy, Lincoln, Nebr.
Application July 15, 1938, Serial No. 219,372
2 Claims. (Cl. 40—125)



2. An advertising device consisting of a sheet having a fold or hinge on the median line thereof, an illustration of an article of commerce on the upper surface of said sheet and extending across said hinge, said sheet being cut on a line partially surrounding said illustration to form a flap which is hinged to said sheet on a line in alignment with the sheet fold and being gummed on the under surface therefor within the cut outline whereby said sheet may be secured to a letter or the like in a manner such that both surfaces of said sheet and the covered portion of the letter may be exposed to the reader of the letter by turning the leaves of said sheet.

2,156,816
RESILIENT CROSS STRAPS FOR TIRE CHAINS
William J. Lutey, Seattle, Wash.
Application June 28, 1938, Serial No. 216,240
6 Claims. (Cl. 152—221)

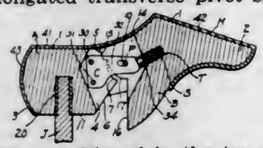


1. In a cross strap for tire chains, the combination of a strip of resilient material having a plurality of transverse slots, and another strip of resilient material woven through the successive slots of said first named strip.

2,156,817
LAST
Ernest E. Ouellette, Manchester, N. H.
Application April 22, 1938, Serial No. 203,502
6 Claims. (Cl. 12—136)

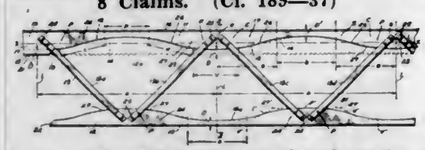
1. The combination in a shoe last comprising a heel section and a toe section pivoted together,

there being a stop and a spring to hold the sections firmly in working position and there being a space between the front face of the heel section and the back face of the toe section to permit movement to and from each other when the last is not in working position; of a connecting plate fixed to the heel section and extending into the toe section and having a bearing surface at its end, the connecting plate having a single straight elongated transverse pivot slot; with a



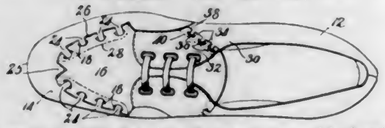
holding spring positioned in the toe section and so bearing against the end of the connecting plate as to resiliently hold the sections in working position; and a pivot pin fixed in the toe section and passing through the pivot slot in the connecting plate, the adjoining parts of the heel and toe sections being so shaped that the sections can be moved towards each other along the axis of the slot after the toe section has been started to move on the pivot pin away from the working position.

2,156,818
FABRICATED TRUSS
Franklin N. Ropp, Los Angeles, Calif., assignor to Soule Steel Company, Los Angeles, Calif., a corporation of California
Application September 15, 1936, Serial No. 100,881
8 Claims. (Cl. 189—37)



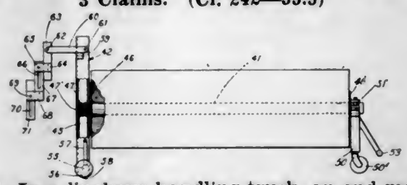
1. In a fabricated truss of the character described, the combination of: an upper chord member; a lower chord member in spaced relation thereto, said chord members being complementary in form as by the cutting of a plate along a wavy or undulating line extending longitudinally thereof so as to form alternate enlarged portions and narrow portions on said chord members while retaining substantially all of the original metal of said web in said chord members, said lower chord member being disposed with its enlarged portions staggered with respect to the enlarged portions of the upper chord member; and diagonal struts connecting the enlarged portions of the upper chord member with the wide portions of the lower chord member.

2,156,819
SHOE UPPER
Rocco Frank Rossi, Cambridge, Mass., assignor to A. R. Hyde and Sons Co., Cambridge, Mass., a corporation of Massachusetts
Application June 7, 1937, Serial No. 146,779
1 Claim. (Cl. 36—45)



A shoe upper having a vamp provided with a plurality of inwardly extending tabs, a member provided with a plurality of openings through which the tabs are threaded, means securing the member to the vamp, and means securing the free ends of the tabs to the vamp and to the member.

2,156,820
LINOLEUM HANDLING APPARATUS
Clay Salyers, Los Angeles, Calif.
Application June 2, 1936, Serial No. 83,049
3 Claims. (Cl. 242—55.5)

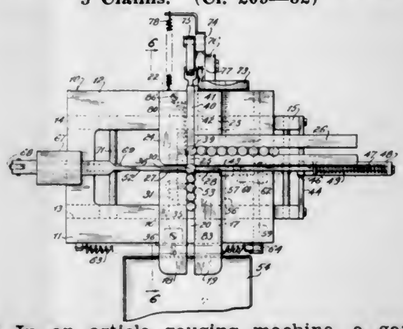


1. In a linoleum handling truck, an end member, an axle having one end secured to said end member, said axle being adapted to extend through a roll of linoleum, a collar on the other end of said axle, a foot member engaging said other end of the axle, said end member having a pair of spaced arms thereon, said arms being pivotally mounted on pivots disposed above said axle, a stop member disposed between the axle and the pivots and in the path of movement of the arms to limit the downward movement of each of said arms, and a counterweight mounted on said arms.

2,156,821
DERIVATIVES OF α-HYDROXYNAPHTHOIC ACID
Wilhelm Schneider, Dessau, Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York
No Drawing. Application August 26, 1937, Serial No. 161,057. In Germany September 12, 1936
11 Claims. (Cl. 260—559)

11. An acid amide of α-hydroxynaphthoic acid in which the amide group is linked to a substantive radical.

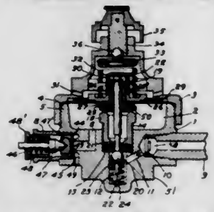
2,156,822
SORTING MACHINE
Alexander M. Smith, Kent, Ohio, assignor to The Lamson & Sessions Company, Cleveland, Ohio, a corporation of Ohio
Application October 20, 1936, Serial No. 106,606
5 Claims. (Cl. 209—82)



3. In an article gauging machine, a gauge, means providing a passage leading to said gauge, means providing substantially aligned supply and discharge passages connecting with the first passage from opposite sides thereof, a reciprocable

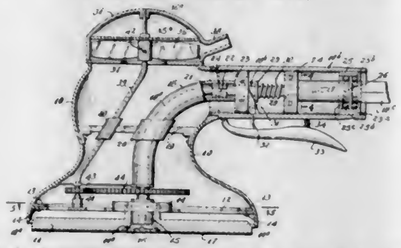
member operable in the first passage to advance articles from the passage intersection to the gauge, a second member reciprocable in said first passage for returning unsatisfactory articles from the gauge to said intersection, a magazine connecting with said supply passage at a point offset from said intersection, and a member reciprocable in said supply passage for moving individual articles from the magazine to the intersection and for displacing returned articles from the intersection into said discharge passage, said passages and members all being in substantially the same horizontal plane.

2,156,823
GAS PRESSURE REGULATOR
Ludwig W. Stettner, Oakland, Calif., assignor to Victor Equipment Co., San Francisco, Calif., a corporation of Delaware
Application May 21, 1937, Serial No. 143,981
1 Claim. (Cl. 50—23)



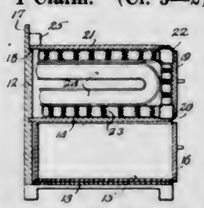
In a gas pressure regulator of the character described having a high pressure inlet, a low pressure chamber closed on one side by a flexible disk diaphragm and a valve controlling a passageway from said inlet to said low pressure chamber, a tubular hub secured centrally through said diaphragm, a tubular member screwed from the low pressure chamber into the passageway from the bottom of said chamber providing a seat for said valve between it and said chamber, a stem extending from said valve through said tubular member and through said diaphragm and hub, means detachably securing said stem at the outer end of said hub consisting of a U-shaped lock washer engaging a groove across the stem and seated against the outer end of the hub, and means sealing the stem against the leakage of gas consisting of a cap screwed to the outer end of the hub covering said stem and lock washer.

2,156,824
FLOOR POLISHING AND SANDING DEVICE
John D. Toro and Max Forschein, Brooklyn, N. Y.
Application August 13, 1938, Serial No. 224,726
8 Claims. (Cl. 51—170)



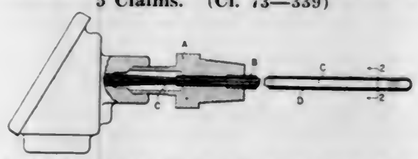
6. A floor polishing and sanding device, comprising a hollow casing having a circular opening in its bottom and a tubular handle at one side, a sand paper holding disc rotatively supported across said circular opening, a flexible transmission system extending through said tubular handle and having its inner end connected with said disc to rotate the same and having its outer end adapted to be connected with a source of rotative power, a suction fan mounted in the top of said casing above said disc and having its intake connected with the interior of said casing and having an external discharge for connecting with a dust collecting system, and a drive for said fan connected with the transmission system, a wall transversely mounted across said casing and spaced in slightly from the open end thereof and having passages for air through which the refuse from the sandpapering operation may pass, and a shutter for controlling the passage of air through said passages.

2,156,825
CONVERTIBLE DRESSER
Olav Thorsen, Brooklyn, N. Y.
Application May 14, 1938, Serial No. 207,950
1 Claim. (Cl. 5—2)



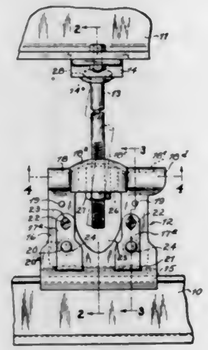
A convertible dresser of the class described, comprising side and back members, a horizontal partition connecting the side members and providing upper and lower compartments, a drawer disposed in the lower compartment, a front section for the upper compartment, hinged to said partition and adapted to be swung outwardly to a position in the plane of the partition, a top section hinged to said front section and adapted to be swung inwardly to form a closed upper compartment for holding a folded spring and mattress, and outwardly to a position in the plane of the partition and top section, thereby to serve as a bed frame, the back member projecting upwardly above the side members and having a ledge disposed below the tops of the side members for supporting the top section flatwise on top of the dresser and between said side members, and legs hinged to the corners of the top section for supporting the same in the plane of said partition when the sections are swung outwardly to bed-supporting position, the legs being foldable inwardly onto the exposed surface of the top section and against the upwardly projecting back member when the sections are in closed position.

2,156,826
THERMOMETRIC MEANS
Roy Ullman, Roslyn, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 28, 1936, Serial No. 76,763
5 Claims. (Cl. 73—339)



1. A thermometric device comprising a thermometer bulb, a bulb surrounding casing formed with a bulb receiving chamber of an internal cross section appreciably larger than the bulb cross section, and an insert interposed between the bulb and casing consisting of a piece of metal bent to form integrally connected portions in the form of segments of approximately concentric hollow cylinders, the outer portion bearing against the inner wall of the casing and the inner portion bearing against the bulb.

2,156,827
MONORAIL SUPPORT AND COUPLING
William G. Wehr, Wickliffe, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application July 15, 1935, Serial No. 31,354
9 Claims. (Cl. 104—111)



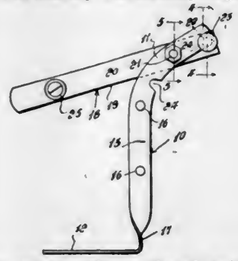
1. In a rail support of the character described, a clamp having at the bottom a pair of jaws and at the top a housing with a rounded upper portion, a supporting member extending through the housing and having an abutment with a rounded top portion engaging the rounded portion of the housing to permit relative swinging movement between the clamp and the supporting member.

2,156,828
FRICTION BODIES
Karl Wolf, Ludwigshafen-on-the-Rhine, and Hans Scheuermann, Oggersheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application January 25, 1938, Serial No. 186,812. In Germany February 3, 1937
7 Claims. (Cl. 106—7.5)

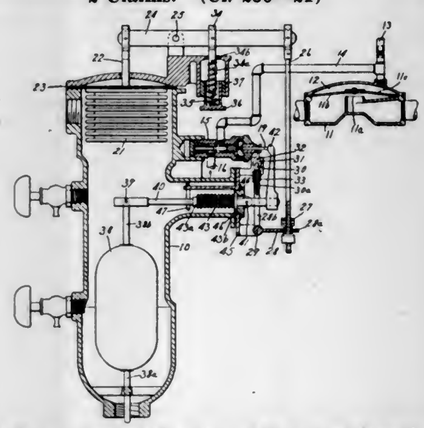
1. Friction bodies, the binding agent of which comprises hardened resinous condensation products of polyhydric alcohols, polybasic acids and natural resin acids.

2,156,829
ATTACHMENT FOR TYPEWRITERS
Lester G. Alcorn, West Union, Iowa
Application June 16, 1938, Serial No. 214,100
5 Claims. (Cl. 120—28)

1. A device of the class described comprising spaced connected uprights having forwardly extending portions forming supporting feet, said uprights being bent rearwardly at their upper ends, and a platform pivotally mounted adjacent its rear end on said uprights intermediate of their curved portions, said platform being provided with outwardly extending lugs adjacent its rear end to engage the ends of said uprights to retain the platform in an inclined position.



2,156,830
FURNACE CONTROL MECHANISM
Christian S. Andersen, Warren, Pa., assignor to Pennsylvania Furnace & Iron Co., Warren, Pa., a corporation of Pennsylvania
Application September 10, 1937, Serial No. 163,167
2 Claims. (Cl. 236—21)

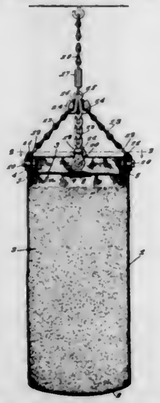


1. In control mechanism of the class described for a boiler having a water level responsive device and having a steam pressure responsive device, the combination of a member for controlling fuel input to said boiler, two actuators for said control member including a sleeve surrounding a rod, said rod being reciprocable relative to said sleeve to actuate said control member independently of sleeve motion, and operative connections between one of said devices and said rod and between the other of said devices and said sleeve.

2,156,831
STRIKING BAG
Jim Andre, Detroit, Mich.
Application April 4, 1936, Serial No. 72,795
1 Claim. (Cl. 272—77)

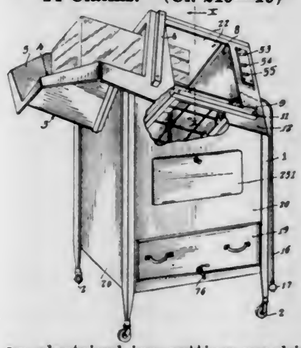
A striking bag comprising a hollow cylindrical body made from heavy flexible material and having a closed bottom, weighty material such as sand within the body, a closure for the upper end of the body and being integral therewith, said material at the juncture of the body and closure being disposed within the body for normally arranging the closure accordingly and secured to the body about the circumference thereof to provide a hem, said closure being slit laterally from the center thereof to its outer edge to provide access means to the interior of the body, a hem

about the inner portion of the slit, a draw string in the latter hem for drawing the closure taut and the access means closed, a flat metallic ring



in the first hem, bolt and nut connections for fixing the ring therein, and suspending means for the bag and connected to the bolts.

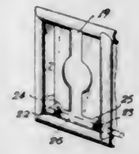
2,156,832
ICE CUTTING APPARATUS
Clarence W. Ayers, Los Angeles, Calif.
Application April 20, 1936, Serial No. 75,275
Renewed January 28, 1939
14 Claims. (Cl. 219—19)



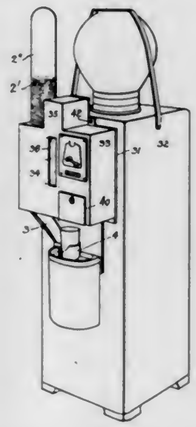
8. In an electrical ice-cutting machine, an inclined chute for supporting and guiding a cake of ice movable therealong, a first electrically heated grid positioned above and approximately perpendicular to said chute in the path of a cake of ice in said chute, said grid being spaced substantially ahead of the lower end of said chute whereby ice is completely supported by said chute after passing through said first grid, a second electrically heated grid beyond the lower end of and approximately in the plane of one wall of said chute in the path of a cake of ice leaving said chute, and removable stop means positioned in said chute in the path of ice therein a substantial distance below said first grid for supporting ice after complete passage thereof through said first grid.

2,156,833
ORNAMENT RETAINING CONSTRUCTION
Ralph C. Bangs, Providence, R. I., assignor to Leo K. Stupell
Application March 7, 1935, Serial No. 9,757
7 Claims. (Cl. 40—140)

1. In combination, a base having a recess, one side wall of said recess having an opening, an ornament having a projecting part insertable in said opening, and spring means anchored in the opposite recess wall of said base yieldable to permit insertion of said ornament into said recess and locking said ornament against removal after insertion, by urging said projecting part into said opening.

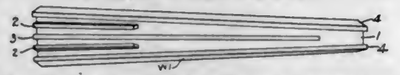


2,156,834
ATTACHMENT ASSEMBLY FOR LIQUID COOLERS
Roy Berry, Olney, Ill.
Application August 30, 1938, Serial No. 227,585
2 Claims. (Cl. 225—21)



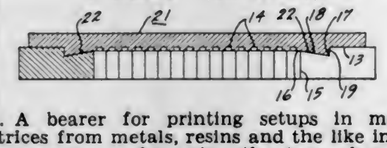
1. An attachment assembly for liquid coolers having a reservoir provided with a discharge pipe, comprising a housing having a permanent front cover and a rear removable cover constituting a vertical plate attachable to the face of the cooler, a cup dispenser located within and forwardly of said housing at one side thereof and spaced from said rear cover by an interval and having a control lever projecting rearwardly thereof within said interval, a liquid dispenser having a rotary valve the casing of which is adapted for connection with said discharge pipe, said valve having a shaft provided with a crank arm, an operating shaft having two crank arms one of which has a rod connecting the same with said control lever and working within said interval and the other of which has a rod connecting the same with said crank arm of the valve shaft, said operating shaft having bearings within said housing at the other side thereof from the cup dispenser and being located forwardly of said rear cover in transverse alignment with said cup dispenser and said liquid dispenser, said rear cover having an opening through which said liquid dispenser is adapted to pass within the housing.

2,156,835
SEPARATING MEMBER FOR JORDAN ENGINES
Archer Le Roy Bolton, North Andover, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application April 16, 1935, Serial No. 16,617
1 Claim. (Cl. 92—27)



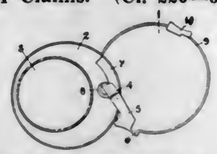
A bodily transportable all metal separator for a Jordan engine having spaced paper stock treating members, which separator includes a low part of substantially uniform level and high parts along the edges and away from the edges of such size and shape as to cooperate with the paper stock treating members.

2,156,836
PROCESS FOR MATRIX FORMING AND BEARER FOR THE SAME
Clarence E. Boutwell, Birmingham, Ala.
Application October 26, 1936, Serial No. 107,606
3 Claims. (Cl. 41—25)



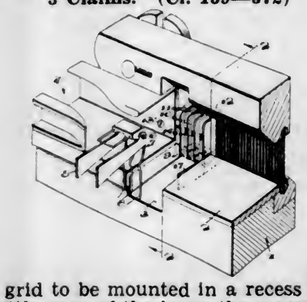
1. A bearer for printing setups in making matrices from metals, resins and the like involving pressures endangering the type characters comprising a plurality of similar side pieces and similar corner pieces adapted to be placed end to end around a printing setup and form a continuous bearer therefor, each of said bearer pieces having a vertical inner wall adapted to bear against the side of the printing setup and being shoulder high to the printing surface thereof, an upper surface sloping downwardly from the vertical inner wall and intersected by a vertical side wall to form a groove having a capacity sufficient to accommodate laterally displaced matrix material, and a flat outer, upper surface equal in height to the printing surface to impede further flow of matrix material.

2,156,837
CLOSURE ELEMENT FOR CANISTERS AND LIKE VESSELS
Thomas Henry Bradbury, Birmingham, England, assignor to Phillips Telescopic Tops Limited, London, England, a British company
Application May 17, 1937, Serial No. 143,191
In Great Britain May 23, 1936
4 Claims. (Cl. 220—38)



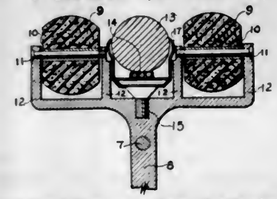
1. A combined closure element and valve for, or for use upon, a liquid or like container, which comprises two sheet metal elements one element having an aperture therein and the other element comprising a disc pivotally mounted upon the said first element at a point adjacent to the periphery of the aperture and the disc so as to be movable in the plane of the disc about the said pivot into a position to cover the said aperture, and to be thereafter movable in the plane of the disc about the axis thereof, and relatively to the said first element through which the pivot extends in an arcuate slot disposed adjacent to and concentric with the aperture therein, the disc being provided at the periphery thereof with elements arranged to engage with inclined projections upon the said first element, to effect a liquid-tight engagement between the effective boundary of the aperture and the said disc.

2,156,838
FILLING DETECTING MECHANISM FOR LOOMS
Bennie S. Brown and William O. Wood, Greenwood, S. C.
Application January 13, 1938, Serial No. 184,878
3 Claims. (Cl. 139—372)



3. A grid to be mounted in a recess formed in the shuttle-race of the loom, the recess having a side wall having a corner, and a substantially horizontal finger arranged within the recess and near the lower end of the grid and extending forwardly beyond the grid, that portion of the finger next to the grid being arranged in substantial contacting relation with said side wall of the recess adjacent to said corner, the finger extending rearwardly beyond the corner, the finger serving to prevent the filling which may fall from the grid being cut on said corner.

2,156,839
APPLICATOR FOR VIBRATORY MASSAGERS
Oscar T. Buffalow, Chattanooga, Tenn.
Application November 16, 1936, Serial No. 111,069
8 Claims. (Cl. 128—49)

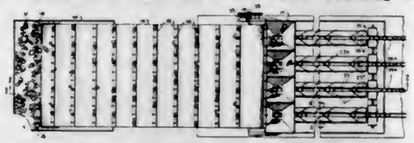


1. A combination of the character described comprising a vibratory arm, a socketed ball applicator on said arm, and rollers associated with said applicator for travel over the body, the axis of rotation of said rollers being in the plane of vibration of said arm for cooperation with said ball applicator in the massaging operation.

2,156,840
APPARATUS FOR WASHING ROOT VEGETABLES
Ford C. Davis, Hartville, Ohio
Application November 27, 1937, Serial No. 176,834
4 Claims. (Cl. 146—194)

1. Apparatus for washing vegetables, comprising a pair of spaced rolls, means for rotating the

same inwardly of the upper bight thereof, the surfaces of said rolls being substantially equally spaced at both ends thereof, means for supplying a quantity of root vegetables into said upper bight at one end of the rolls, means for feeding the vegetables from said end of the rolls toward the other end thereof, said rolls causing said



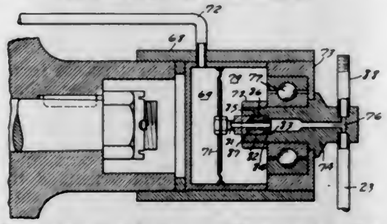
vegetables to assume inverted positions by engaging and moving the tops thereof down between the rolls without substantially crushing or tearing the tops, said rolls being spaced so as to retain roots of a desired size thereon, and means for spraying the vegetables on said rolls from above the rolls.

2,156,841

TIRE PRESSURE CONTROLLING APPARATUS

Walter H. Davis, Alexander City, Ala.

Application April 9, 1938, Serial No. 201,153
11 Claims. (Cl. 152—416)



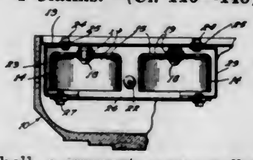
1. In apparatus for controlling and indicating pressure in the tires of motor vehicles, a hub cap on each wheel of the motor vehicle and enclosing a pressure chamber, a flexible diaphragm comprising one transverse wall of the pressure chamber, a hollow axially extending stem carried centrally by the diaphragm and communicating with the chamber, means defining an axially extending non-rotating passage into which the stem fits, cooperating seat members on the stem and in the passage, a compressor on the vehicle, means to connect the compressor to the passage, and means to connect the pressure chamber to its associated tire.

2,156,842

BELL

George R. Eaton, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois

Application September 18, 1937, Serial No. 164,462
4 Claims. (Cl. 116—148)



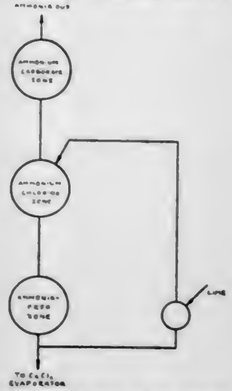
1. In a bell, a support, a generally cup-shaped gong, a tapper mounted for engagement therewith, means for actuating said tapper, dished resonators, one on each side of said gong, the concave sides of said resonators facing said gong and each other, said resonators extending from the support substantially parallel to the profile of and beyond the gong and inward to lap the periphery of the latter, and so enclosing the gong as to reflect back toward said gong substantially all sound waves received by said resonators which are not emitted by the resonators themselves in harmonized or concentrated sound, and means for mounting said gong and resonator on said support.

2,156,843

PROCESS FOR INTRODUCING LIME INTO STILLS FOR THE RECOVERY OF AMMONIA

John C. Garrels and Howard Roderick, Grosse Ile, Mich., assignors to Michigan Alkali Company, Wyandotte, Mich., a corporation of Michigan

Application August 6, 1935, Serial No. 34,942
1 Claim. (Cl. 202—57)



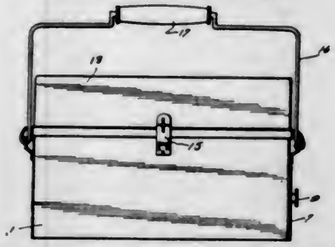
In ammonia distillation, the steps of distilling ammonia from ammoniacal liquor to which lime has been added to remove fixed and free ammonia therefrom, diverting a portion of the final waste liquor from which such free and fixed ammonia has been so removed, adding dry lime as the ammonia freeing agent to such diverted waste liquor and then returning the latter to the ammonia distillation zone for reacting with the incoming ammoniacal liquor, thereby avoiding water dilution of residual products from the distillation.

2,156,844

LUNCH CONTAINER

Sidney F. Gautier, New Orleans, La.

Application March 7, 1938, Serial No. 194,507
1 Claim. (Cl. 220—20)



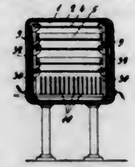
A lunch container of the class described comprising a box open at its top, a horizontal partition fixed in the box at an intermediate point providing a compartment in the lower portion of said box, said compartment being open at one end, a closure for the open end of the compartment comprising a plate engageable with the box and resilient flanges projecting inwardly from said plate and frictionally engageable with the top and bottom of the compartment, a plurality of vertical partitions in the upper portion of the box providing a series of comparatively small compartments above the horizontal partition, a cover for the second named compartments hingedly mounted on the box, a second cover, formed to provide a compartment, hingedly mounted on the box and, when in closed position, resting on the first named cover for securing said first named cover in closed position, the first named cover constituting the bottom of the third named compartment when the covers are in closed position, and means for releasably securing the second named cover in closed position on the box.

2,156,845

METHOD OF AND APPARATUS FOR DRYING SUBSTANCES IN VACUO

Johan Georg Wilhelm Gentele, Stockholm, Sweden

Application March 22, 1938, Serial No. 197,485
In Austria March 27, 1937
1 Claim. (Cl. 34—30)



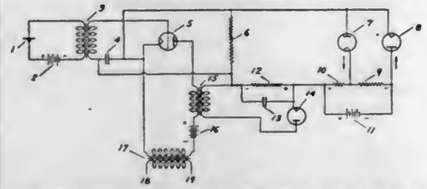
Apparatus for drying substances in vacuo which are liable to change under the action of heat, comprising a casing enclosing an evaporating chamber, means for creating a vacuum in said chamber, metal supports for the products to be dried in said chamber, said supports being made black or dull on at least the lower side so as to get a high intensity of radiation, radiant heating elements in said chamber placed on both sides of each support and at a distance from the same, means for insulating the said supports from heat conducting parts of the apparatus, and means for cooling the vapour generated from said products.

2,156,846

RADIO TRANSMISSION

James L. Getaz, Maryville, Tenn.

Application May 27, 1936, Serial No. 82,024
22 Claims. (Cl. 250—6)



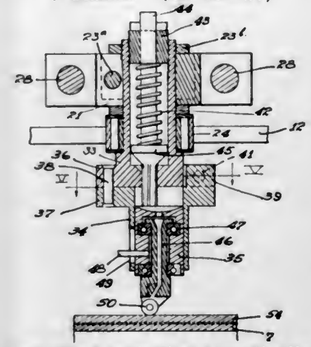
1. In a system for transmitting signals, a transmitter circuit, a circuit for amplifying said signals coupled to said transmitter circuit, two sources of constant voltage of different intensity, means for comparing the voltage produced in said amplifying circuit with said constant voltages, means for amplifying said signals at a constant rate of amplification if said voltage produced in said amplifying circuit is between said constant voltages, and automatic means for reducing said rate of amplification if the voltage produced in said amplifying circuit is greater than said constant voltage of greater intensity, and for increasing said rate of amplification if the voltage produced in said amplifying circuit is less than said constant voltage of less intensity.

2,156,847

GLASS CUTTING APPARATUS

James Gregory, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application November 4, 1937, Serial No. 172,705
Renewed March 14, 1939
7 Claims. (Cl. 33—27)



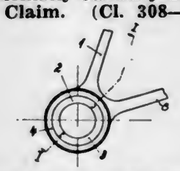
1. In a machine including a vertically movable table for carrying the glass sheet to be cut, an arm mounted for horizontal movement over the table and a horizontal cam in fixed position above the table, a cutter head pivotally supported on the arm and guided on the cam, a cutter carrier mounted for vertical movement in the head, a cutting tool carried by the end of the carrier, a container for cutting fluid on the arm provided with a conduit discharging to the head, a communication through the head and carrier for conducting the cutting fluid to the cutting tool, an upwardly opening valve in said communication and spring means yieldingly closing the valve and pressing the carrier downward when the table is in its lower position but adapted to be opened by the carrier when the table is raised and the carrier is moved upward by the glass sheet on the table.

2,156,848

BEARING BLOCK OR PEDESTAL FOR MARINE VESSELS

Andreas Groote, Dortmund, Germany

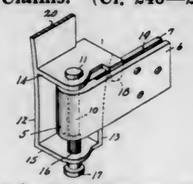
Application November 3, 1936, Serial No. 109,056
In Germany January 11, 1936
1 Claim. (Cl. 308—22)



Bearing block, to be used on marine vessels, of forged steel with arms forged thereon, characterized in that it is composed of two parts each provided with one arm, the joint of these parts

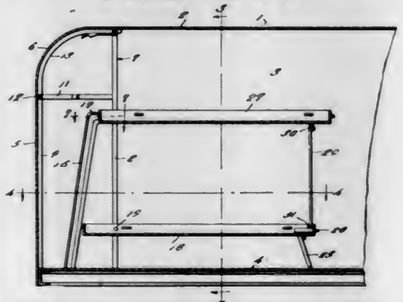
being situated in a plane extending through the axis of the hub of the bearing block, the two parts being united by rings shrunk on the ends of the hubs.

2,156,849
BRACKET FOR SUPPORTING A DIRECTION INDICATOR OR THE LIKE
Peter P. Gutierrez, Watsonville, Calif.
Application April 28, 1937, Serial No. 139,524
5 Claims. (Cl. 248—226)



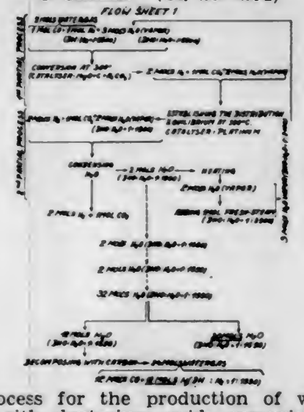
1. A bracket for securing an object to a hinge projecting from a support, comprising a pair of vertical plates arranged at a right angle to one another, a pair of horizontal plates supported in the angle in spaced relation to one another so as to straddle the hinge, means for clamping the horizontal plates to the hinge and an upright member projecting from one of the vertical plates and having means for supporting the object in the upper end thereof, the vertical plates connecting the horizontal plates together and one of the vertical plates being shaped and positioned to lie against the hinge support to prevent the bracket from swinging in one direction about the hinge.

2,156,850
TRAILER BED
Harry W. Hafer, Winnett, Mont.
Application May 25, 1938, Serial No. 210,053
3 Claims. (Cl. 5—9)



1. The combination with a trailer body having a floor, sides and top, respectively, of a folding bed comprising a pair of laterally spaced frames secured to said floor in upstanding position to extend parallel with the sides of said body, a rectangular box-like deck pivoted adjacent one end thereof to said frames to swing therebetween into vertical and horizontal positions, respectively, a pair of folding legs pivotally mounted on said deck adjacent the other end thereof to be extended from said deck and support said other end on said floor, a pair of elongated channeled guides secured to said floor in upstanding position alongside said frames, respectively, a second deck similar to the first-mentioned deck having a pair of rollers mounted upon opposite sides of the same adjacent one end thereof and rolling in said guides whereby said second deck may be manipulated in said guides into horizontal position over said first-mentioned deck, or swung and lowered in said guides into upright position behind said first-mentioned deck, and means to support said second deck in horizontal position including lateral extensions on said guides for receiving said rollers, and legs on said second deck manipulative to seat the same on the first-mentioned deck.

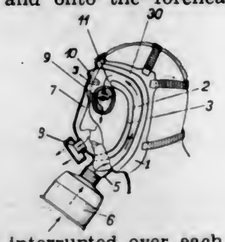
2,156,851
PRODUCTION OF HEAVY WATER
Fritz Hansgirg, Konan, Korea
Application November 10, 1936, Serial No. 110,193
In Austria December 23, 1935
5 Claims. (Cl. 23—204)



4. Process for the production of water enriched with deuterium oxide comprising catalytically converting a mixture comprising carbon monoxide and hydrogen with water vapor in excess over the stoichiometrically required amount in a first partial process to produce a convert gas comprising carbon dioxide, hydrogen and deuterium, contacting the hydrogen and deuterium in the converted gas in the presence of a catalyser with water in a second partial process to establish the equilibria between hydrogen, deuterium, water and deuterium oxide thus enriching the said water with deuterium oxide, introducing at least part of the water thus enriched with deuterium oxide into the said first partial process so as to obtain a convert gas enriched with deuterium, contacting the thus produced convert gas with water in the presence of a catalyser in the said second partial process to establish the equilibria between hydrogen, deuterium, water and deuterium oxide, repeating the cycle of the said steps and removing and collecting the water enriched with deuterium oxide.

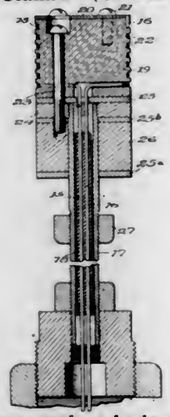
2,156,852
GAS MASK
Václav Horák, Prague, Czechoslovakia
Application October 26, 1936, Serial No. 107,658
In Czechoslovakia December 24, 1935
2 Claims. (Cl. 128—141)

1. A gasmask, comprising in combination, eye pieces, a body of elastic material, such as rubber carrying said eye pieces and having a narrow edge portion adapted to bear against the face of the wearer on both cheeks over the forehead and under the chin, an inhalation socket formed at the chin portion of said body, two ribs formed on the inner side of said body substantially parallel with the edge of the body said ribs adapted to bear against the cheeks, chin and forehead and support said body on the face of the wearer to form an enclosed space over the eyes, nose and mouth portions and to form with the face an annular passage leading from said socket along each cheek and onto the forehead where the



inner rib is interrupted over each eye piece to establish communication between said passage and said space, an exhalation valve leading from said space opposite the mouth of the wearer, and a filter fitted in said inhalation socket.

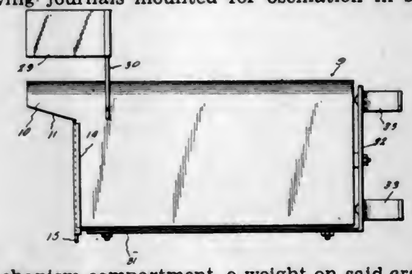
2,156,853
THERMOCOUPLE
Frank E. Huggins, Jr., Buffalo, N. Y., assignor to Sowers Manufacturing Co., Buffalo, N. Y., a corporation of New York
Application March 17, 1938, Serial No. 196,561
9 Claims. (Cl. 136—4)



1. In a thermocouple, a body of insulating material adapted to project into the interior of a processing chamber, and thermocouple conductors arranged circumferentially of said body between the ends thereof with the ends of said conductors associated in a thermo-electric junction at the inner end of said body, the length of said conductors carried by that portion of said body disposed within the chamber exceeding the distance said body extends into said chamber whereby dissipation of heat units exchanged between said conductors and the wall of said chamber to material within said chamber will be facilitated.

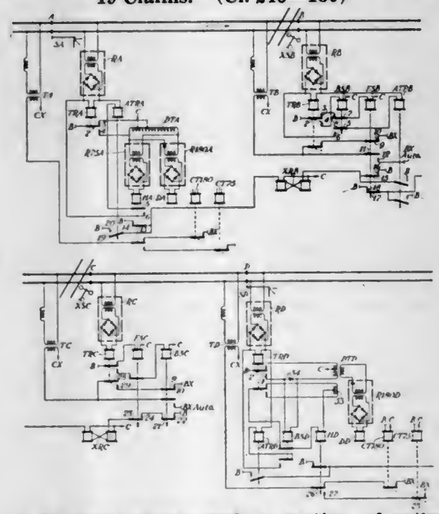
2,156,854
MAIL BOX
James L. Hurst, Spirit Lake, Iowa, assignor of one-half to B. E. Grottum, Jackson, Minn.
Application March 22, 1937, Serial No. 132,438
2 Claims. (Cl. 232—35)

1. In a structure of the class described, a hollow mail box provided in its upper portion with a partitioning and divider plate coacting with the top of the box in defining a mechanism compartment, said box being open at its outer end, a depending hingedly mounted plate constituting a closing door for said outer end, the upper end of said plate being hingedly suspended from the box and being provided with a laterally directed flange, a counter weight carried by said flange, a signalling flag unit comprising a crank shaft having journals mounted for oscillation in said



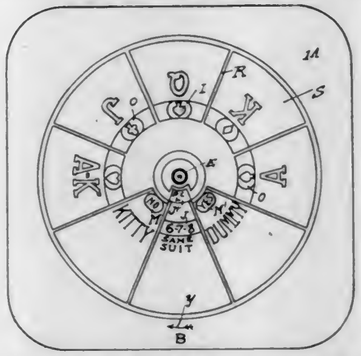
mechanism compartment, a weight on said crank shaft, said weight being normally disposed in the path of swing of the weighted flange when said door is lifted to open position, one end of said crank shaft being formed into a flag supporting arm, and a signalling flag on said arm.

2,156,855
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ralph R. Kemmerer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 15, 1938, Serial No. 230,084
19 Claims. (Cl. 246—130)



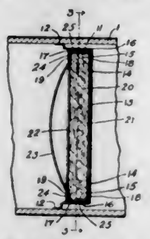
1. In combination with a section of railway track, means for at times supplying coded current and for at other times supplying uncoded current to the rails of said section, a code following track relay receiving energy from the rails of said section, an auxiliary track relay incapable of following impulses of said coded current but responsive to said uncoded current, means controlled by said code following track relay effective at said other times for connecting said auxiliary relay to receive energy from the track thus causing said auxiliary track relay to respond to said uncoded current, and traffic controlling apparatus governed by said auxiliary track relay.

2,156,856
CARD GAME INDICATOR
Herbert E. Kinnee, Detroit, Mich.
Application April 28, 1937, Serial No. 139,440
2 Claims. (Cl. 273—148)



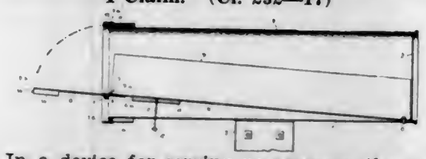
1. A card game indicator comprising a board, a cover sheet for said board having a circular area divided by radial lines to provide a plurality of segmental spaces, certain of said spaces having therein indicia representing certain cards of suits of a deck of cards, said cover sheet having openings therein each located in a segmental space in radial alinement with the indicia in the space, and a dial rotatably mounted between the board and the cover sheet under said circular area concentric thereto, said dial having thereon pip-markings of suits of a deck of cards, said markings being spaced from each other along a circular path concentric to the dial in position to be displayed through the openings of the cover sheet, said cover sheet having other openings disposed out of annular alinement with the first openings, and said dial bearing indicia disposed in position to be displayed through the last mentioned openings of the cover sheet.

2,156,857
VACUUM CLEANER FILTER
Henry A. Kroenlein, East Cleveland, Ohio, assignor to Progress Vacuum Corporation, Cleveland, Ohio, a corporation of Ohio
Application August 3, 1936, Serial No. 94,031
3 Claims. (Cl. 183—51)



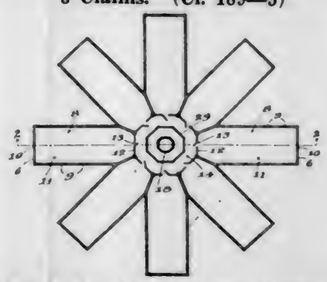
3. A bacteria filter for a vacuum cleaner comprising a cylindrical casing member, a pair of flanged, cylindrical, retaining members telescopically fitted over said casing member and in endwise abutment with each other, said retaining members having inwardly-extending flanges, a relatively fine, loosely packed, fibrous filtration medium located within said first-named casing member, and screen members positioned adjacent the inner faces of said flanges for retaining said filtration medium within its casing member.

2,156,858
DEVICE FOR SERVING SUBSCRIBERS WITH NEWSPAPERS
Rankin D. Landis, Culpeper, Va.
Application August 26, 1937, Serial No. 161,121
1 Claim. (Cl. 232—17)



In a device for serving newspapers, the combination of a tubular member, closed at one end and open at the other end; a pintle pin horizontally disposed transversely of said member at its open end, and below the horizontal diameter off said member; a sleeve loosely embracing said pin; a door mounted on said sleeve; a tray pivotally mounted adjacent the closed end of said member and extending to the open end; a rod attached to said tray and passing through the bottom of said member; and a finger on the inner face of said door, the door and tray being so related that when the tray is raised by means of the rod it engages the finger, unbalancing the door to cause it to fall open, and when the tray is depressed by imposition of a weight thereupon, its end engages the door to overbalance the weight of the door and close it.

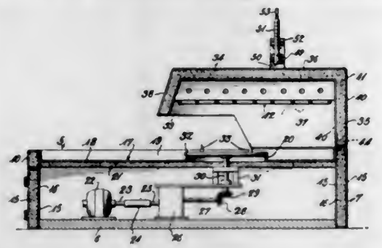
2,156,859
JAIL OR THE LIKE
John H. Lowe, Albany, Ga.
Application December 31, 1935, Serial No. 56,990
3 Claims. (Cl. 189—5)



1. A jail or the like comprising a central shaft section from which radiate a multiplicity of rooms, grilled walls forming the boundary of the central shaft section and the inner ends of said rooms, a guard cage positioned in the central portion of the central shaft section and spaced from said walls to permit a guard occupying the cage to observe the entire interior of any of said rooms through said grilled walls, said cage being provided with a turntable floor, and means for rotating said floor.

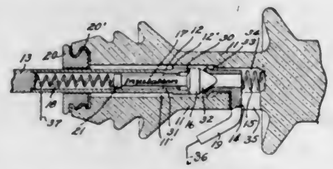
2,156,860
ELECTRIC BROILER
Ernest C. Lucas and Anastasios T. Pappas, Columbus, Ohio
Application September 13, 1937, Serial No. 163,684
4 Claims. (Cl. 53—5)

3. In an electric broiler of the type described, a supporting base, a heating element, an open bottomed hood one end of which is pivotally connected to said base, a bracket of substantially inverted U-shape attached to said base and overlying said hood, and adjustable means connecting said hood to said bracket whereby adjustment of



said means will effect pivotal adjustment of said hood with respect to said base.

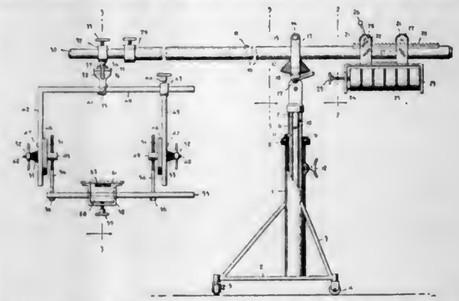
2,156,861
ELECTRICAL CIRCUIT BREAKER
Olav Maseng, Detroit, Mich.
Original application October 22, 1934, Serial No. 749,330, now Patent No. 2,080,178, dated May 11, 1937. Divided and this application April 26, 1937, Serial No. 138,913
8 Claims. (Cl. 200—148)



1. In an electrical circuit breaker, an insulating housing having an air filled chamber, a pair of main contact members in said chamber forming the terminals of a circuit to be interrupted, an intermediate contact member movably supported in the chamber between the two main contact members, means for moving one of the main contact members from engagement with the intermediate contact member to thereby produce an arc and thereby provide gas under pressure within the housing, the other of the said main contact members mounted to permit movement by pressure of the arc gases generated within the housing and having a passageway to atmosphere normally closed by the intermediate contact member and opened by pressure developed by said arc produced gases whereby the gases under pressure are discharged to atmosphere between the co-acting surfaces of the intermediate and apertured contact member to thereby quench the arc therebetween.

2,156,862
MOUNT FOR CINEMA CAMERAS, ETC.
Adolfo Best Maugard, Mexico, D. F., Mexico
Application March 18, 1936, Serial No. 69,569
In Mexico March 20, 1935
6 Claims. (Cl. 248—123)

1. In a mount for cinema cameras, the combination of a base; a post on said base; a balance beam pivoted on said post; a frame rotatable on a vertical axis on said beam and having two depending rods; a disc mounted on each rod; a rotatable shaft passed loosely through each disc and having a head; a disc non-rotatably mounted on each shaft and contacting the disc through which its shaft passes; tensioning means carried by said shafts to adjust the frictional contact of each pair of discs; and a camera supporting table

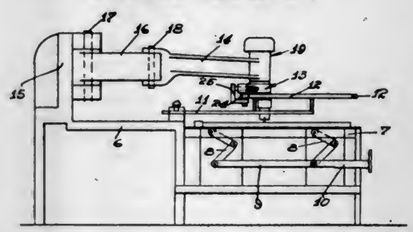


slidably and rotatably suspended from said shaft heads.

2,156,863
CONTINUOUS COUNTERCURRENT HYDROLYSIS OF FAT
Victor Mills, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
Application May 16, 1935, Serial No. 21,845
18 Claims. (Cl. 260—415)

1. A continuous process for hydrolyzing fat which comprises establishing an upwardly flowing column of fat, heated to at least 350° F., in a suitable chamber under sufficient pressure to maintain water at said temperature in the liquid state, and causing water at said temperature to percolate downwardly in comminuted form through said rising column of fat, the heat stored in the said fat and water before contacting each other being sufficient to cause the subsequent hydrolysis, continuously removing hydrolyzed fat from the top of the chamber and continuously removing water with glycerin from the bottom of the chamber, the total proportion of water to fat being sufficient to provide an excess of unreacted and undissolved liquid water equal to at least the weight of glycerin to be liberated, the period of contact of fat with water being at least 30 minutes, and the rate of flow of the fat being below that which will entrain the water and inhibit its fall by gravity therethrough.

2,156,864
GLASS CUTTING APPARATUS
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application November 4, 1937, Serial No. 172,743
Renewed March 14, 1939
6 Claims. (Cl. 33—27)



1. In a machine including a table for carrying a glass sheet to be cut, a support mounted above the table for movement horizontally thereover and a guide above the table for governing the

movement of the support, a vertical barrel swivelled in the support, a clamping member in which the barrel is mounted for rotary adjustment carrying roller means engaging said guide, and a cutter tool swivelled on a vertical axis at the lower end of the barrel with such axis off center with respect to the center line of the barrel.

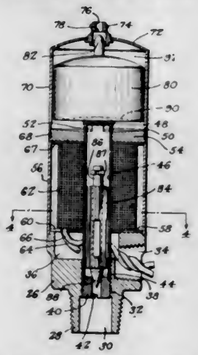
2,156,865

VALVE FOR HEATING SYSTEMS

Joseph A. Parks, Jr., Milton, Mass., assignor, by mesne assignments, to Anderson Products, Incorporated, a corporation of Massachusetts

Application February 12, 1936, Serial No. 63,628

12 Claims. (Cl. 277—49)



1. A device of the type described for use in a steam heating system comprising a single unit including two valves in series and connected by a fluid-tight conduit, one of said valves operated electrically and the other of said valves operated by a float positioned in said conduit, said float operative under the influence of rising temperature of the fluid in said conduit.

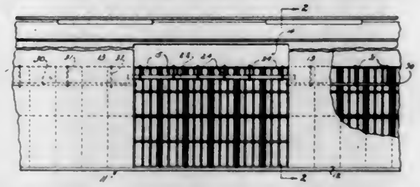
2,156,866

DOORWAY GUARD AND SIDE SLACK BRACING FOR CRATE-LOADED CARS

Harold C. Pierce, Anaheim, Calif.

Application April 21, 1937, Serial No. 138,195

5 Claims. (Cl. 105—367)



1. For use in combination with a box car or the like having a side wall with an opening therein and containing a row of boxes facing said side wall and opening in close proximity thereto; an elongated rigid member extending along the outside of said row and having its ends positioned between the outer faces of said boxes and the car wall at opposite sides of said opening and extending across said opening, and means on said member releasably attaching the member to boxes in said row so that said member holds the boxes against lateral shifting movement into said opening, there being one of said members associated with at least the top tier in the case of more than one tier of boxes.

2,156,867

EQUIPMENT PERTAINING TO SKIS

Jacob Refsland, Brooklyn, N. Y.

Application February 7, 1938, Serial No. 189,029

5 Claims. (Cl. 280—11.37)



1. A device of the class described, comprising adjustable means for securing a pair of skis together, adjustable means for spacing said skis apart at their center, and adjustable means for spacing said skis apart at their front, said latter means comprising a pair of plate members, another plate member bent upon itself and having one end thereof pivotally secured to one of the former two plate members, and the other end thereof formed with a hook adapted to engage a correspondingly hooked portion formed upon the inner end of the other one of the two plate members, adjustable lugs arranged within the bend of the plate member bent upon itself, and levers pivotally secured to said first two plate members and adapted to adjustably space the latter apart, substantially as and for the purpose set forth.

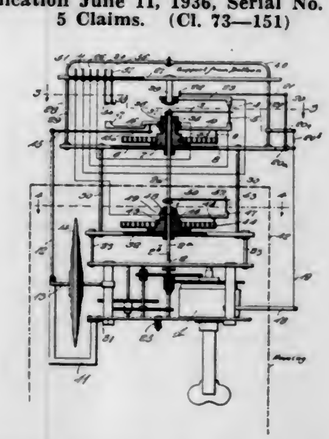
2,156,868

CONTROL DEVICE FOR A RADIOMETEOROGRAPH SIGNAL TRANSMITTER

William H. Reynolds, Silver Spring, Md., assignor to American Instrument Company, Silver Spring, Md., a copartnership composed of William H. Reynolds and Leopold Freedman

Application June 11, 1936, Serial No. 84,775

5 Claims. (Cl. 73—151)



3. Control apparatus for a signal transmitter adapted to be carried by a free balloon which comprises a housing, a frame structure partly within and partly without said housing, a driving mechanism mounted on said frame structure within said housing and having a rotatable shaft extending through said frame structure and a wall of said housing, a contact member carried by said shaft exteriorly of said housing, fixed contacts and a plurality of movable coacting contacts engageable by said contact member upon rotation of said shaft, and separate means mechanically connected with said movable coacting contacts for controlling the position thereof with respect to said fixed contacts in accordance with different meterological conditions exteriorly of said housing.

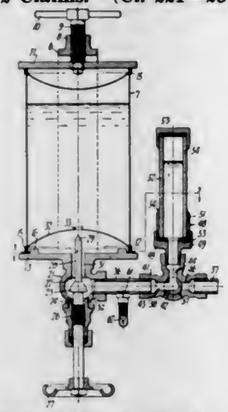
2,156,869

APPARATUS FOR DISPENSING METHYL BROMIDE

Paul H. Richert, Fresno, Calif., assignor, by mesne assignments, to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application December 17, 1937, Serial No. 180,470

2 Claims. (Cl. 221—23)



1. A dispensing device of the character described comprising a closed frame having an aperture therein to admit and receive a container, means at one end of said frame for engaging said container and forcing said container toward the opposite end of said frame, a gasket between said container and said opposite end, a valve carried by said opposite end and including a valve seat, and a valve stem carrying an end projecting beyond said seat and puncturing a container to form its own aperture in said cointainer when said container is positioned in said frame and when said valve is on its seat, said stem moving out of said container upon opening of said valve and moving into said aperture in said container upon closing of said valve.

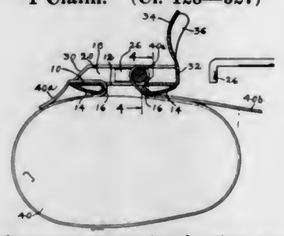
2,156,870

BUCKLE

Arthur E. Rineer and Henry G. Dybvig, Dayton, Ohio, assignors, by mesne assignments, to Dayton Laboratories Corporation, Dayton, Ohio, a corporation of Ohio

Application January 17, 1938, Serial No. 185,355

1 Claim. (Cl. 128—327)



In a sphygmomanometer having an arm band for supporting the inflation bladder, a buckle for holding the arm band on the arm, said buckle including a sheet metal base portion having a substantially rectangular opening, one end of the arm band being fixedly attached to one side of the base portion, the opposite sides of the base portion merging into a handle extending normal to the plane of the base, said handle including a hand grip portion, the ends of the base portion extending upwardly and inwardly to form a pair of parallel channels and a transversely disposed slidably mounted rod extending over the opening in the base portion, the ends of said rod being seated in said channels, the free end of the arm band extending through the opening over the rod down through the opening when in position for use on the arm, the arm band being releasable by gripping the handle and rotating the buckle, permitting the rod to shift relative to the base portion to cause the free end of the arm band to be released.

2,156,871

RUBBER PRODUCT

Henry J. Rittenhouse, Philadelphia, Pa., assignor of one-half to Frederic H. Barth, Philadelphia, Pa.

Application October 30, 1936, Serial No. 108,369

1 Claim. (Cl. 154—46)



As an article of manufacture, a homogeneous body comprising a backing and an operative gripping surface of granular formation comprising a mass of closely related, soft rubber granules of such formation as to provide a multiplicity of facets of varying heights and shapes, with relatively sharp and elongated edges between the facets of at least a large proportion of the granules, the said granules extending heterogeneously in a multitude of angular dispositions with respect to each other to thereby cause the facets of some of the granules to extend over and between the facets of other of the granules and to dispose the sharp edges between the facets of the several granules at a large number of varying angles, the backing and the granules being integrally composed of a web of soft rubber, the edges between the facets of the granules being sharp enough to grippingly engage objects contacted thereby but soft enough to prevent injury to the said objects.

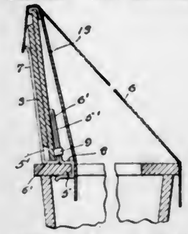
2,156,872

CASKET-TOP HOLDER

Jacob W. Roberts, Memphis, Tenn.

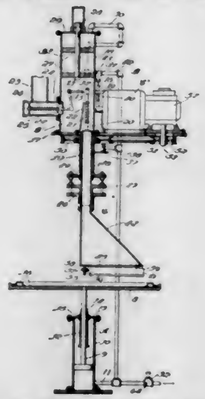
Application February 11, 1937, Serial No. 125,314

1 Claim. (Cl. 27—18)



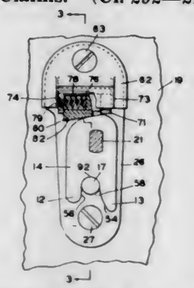
A clamp for casket lids of that type separate from the casket comprising a flat resilient strip bent on itself to provide a substantially U-shaped clamp including resilient arms to grip a casket lid and a bight portion to rest on a flange of a casket, one of said arms being bent on itself to shorten said arm over the other arm, a clip applied to the shorter arm to hold the portions thereof against each other, and a substantially U-shaped resilient clip to engage with the flange of the casket and secured on the short arm adjacent the bight portion.

2,156,873
MEASURING AND TROWELING MACHINE
Oliver R. Scheurer, Kankakee, Ill., assignor to J. W. Mortell Company, a corporation of Illinois
Application December 27, 1937, Serial No. 181,982
15 Claims. (Cl. 18—5)



1. A device of the character set forth, comprising: a hollow shaft provided at one end with a troweling-blade; measuring means for extruding a regulated amount of viscous material through said shaft during each operation of the device to a position adjacent to said blade; and means for rotating said blade to distribute and trowel said material.

2,156,874
DOOR HOLDING AND DOOR CONTROL MECHANISM
Rudolph I. Schonitzer, Shaker Heights, Ohio
Application September 14, 1938, Serial No. 229,800
14 Claims. (Cl. 292—216)



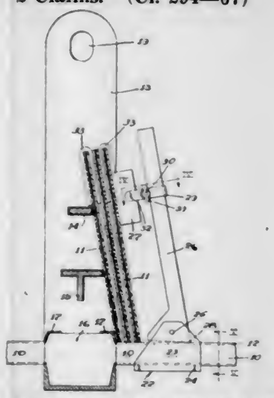
2. In combination with a hinged door structure and a door frame structure therefor, door holding and door control mechanism comprising two cooperatively related door control means for the control of said door structure, one of such door control means being adapted to be pivotally associated with a part of one of said structures and the other of such door control means being adapted to be so associated with a part of the other of said structures that such last mentioned door control means is substantially immovable in the general direction of the hinge axis of the door structure when said door structure is in closed position, one of said two door control means having spaced arm portions which are disposed on opposite sides of the other of said door control means when the door structure is in closed position, and door holding means adapted to be so associated with the structure part with which such "immovable" door control means is associated that such door holding means is substantially immovable in the general direction of the hinge axis of the door structure when said door structure is in closed position, said door holding means and said "immovable" door control means being spaced apart and said pivoted door control means being wedged therebetween when said door structure is in closed position, with the result that when said door structure is in closed position its aforesaid part is substantially immovable in the general direction of the hinge axis of said door structure.

2,156,875
BILLFOLD
Irving Schwartz, Newton, Mass., assignor to Knight Leather Products, Inc., Boston, Mass., a corporation of Massachusetts
Application August 5, 1937, Serial No. 157,535
1 Claim. (Cl. 150—39)



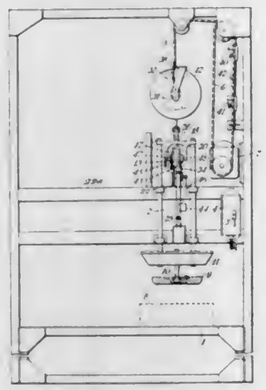
A bill fold or the like article which comprises juxtaposed pieces of sheet material secured along adjacent edges to provide a pocket, one of said pieces of sheet material having a partially cut-out area defining a hinged flap, a sheet of transparent material secured about the margins surrounding said cut-out area to provide a window for said pocket, said flap having a piece of transparent sheet material secured to its marginal portions to provide a second pocket pivotally connected to the first pocket.

2,156,876
SAFETY-GLASS RACK
R. D. Russell Scull, Festus, Mo., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application October 9, 1937, Serial No. 168,263
Renewed March 14, 1939
2 Claims. (Cl. 294—67)



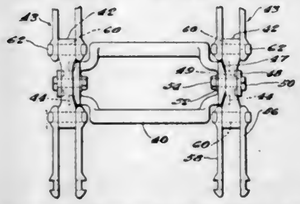
1. In combination in a glass rack, a skeleton base including parallel bars of rectangular cross section for supporting the lower edges of a pack of glass plates, upright supporting means carried by the base and lying thereabove for engaging the side face of one of the plates of the stack for maintaining the stack in upright position inclined somewhat from the perpendicular, a shoe slidably mounted on one of the bars and comprising a pair of parallel side plates, a pivot pin between the plates above the bar, and a pair of spaced releasable tie members securing the plates together beneath the bar, and a clamping arm on said pivot pin provided with means on its upper portion for engaging the plates of the stack on the side thereof remote from the supporting means and provided at its lower end to the rear of said pivot with a toe portion positioned to engage the top of the bar and clamp the shoe against movement on the application of pressure to the upper portion of the arm tending to move it away from the pack.

2,156,877
COMPRESSION TESTING APPARATUS
Edward Simpson, Erdington, Birmingham, Arthur James Stubbs, Sheldon, Birmingham, and Thomas Norcross, Erdington, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application September 28, 1937, Serial No. 166,056
In Great Britain August 28, 1936
11 Claims. (Cl. 265—12)



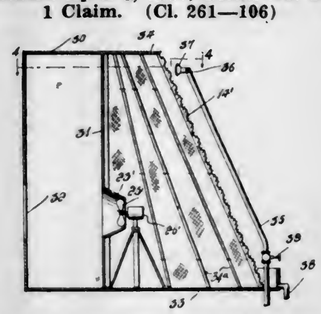
1. A compression measuring apparatus which comprises a test piece support, a weighting mass, means for lowering said mass onto said test piece to compress the latter, means for measuring the weight of said mass supported by said test piece as said mass is lowered, control means for marking the weight supported by said mass when compressed to a predetermined proportion of its thickness which comprises a movable member carried by and movable with said mass lowering means, means to lower said movable member relative to said mass lowering means and at a rate proportional to the lowering of the latter, means actuated by the measuring means at a datum supported weight to actuate said movable member lowering means, and means to fix the weight indication when said movable member has reached a limit of movement equal to the thickness of the test piece under said initial datum weight.

2,156,878
CONVEYER
Alfred De Los Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application January 7, 1937, Serial No. 119,441
8 Claims. (Cl. 198—168)



1. A conveying element comprising two spaced apart conveyer chains, each chain comprising a plurality of pivoted members, a plurality of open members extended transversely between said chains, and means for detachably connecting said open members to alternate opposed pairs of pivoted members including bolts extending through said chains and open members and nuts cooperating with the bolts, said open members having portions thereof disposed in alignment with the pivotal points of adjacent pivoted members.

2,156,879
AIR COOLER AND CONDITIONER
Richard C. Slater, Galesburg, Ill.
Application April 5, 1937, Serial No. 135,131
1 Claim. (Cl. 261—106)

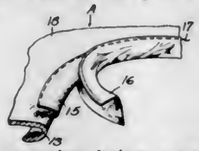


A device of the class described having a casing provided with a discharge opening, said casing having a rear wall provided with a discharge opening, a semi-circular rearward extension on the casing adjacent the base thereof forming a pan, a rearward extension on the top wall of the casing, a web of porous material disposed angularly about the entire periphery of said extensions, spaced supporting means for the web extending between said extensions, means to supply water to the web adjacent the top thereof, a drain for the pan, and a fan operable to draw air through the web and discharge it through said openings.

2,156,880
APPAREL PROTECTOR AND INDICATOR
Ira I. Slomon, Long Island City, N. Y.
Application December 2, 1937, Serial No. 177,784
10 Claims. (Cl. 116—114)

8. In combination, a piece of wearing apparel, a portion of which normally contacts the skin, a skin sensitive indicator member adapted to be attached to said portion of the apparel that contacts the skin and adapted to contact the

skin of the wearer and be subjected to the characteristics of the body to detect when the article of apparel has been worn a predetermined time,



said indicator member being a part in addition to the functional parts of the apparel to which it is attached.

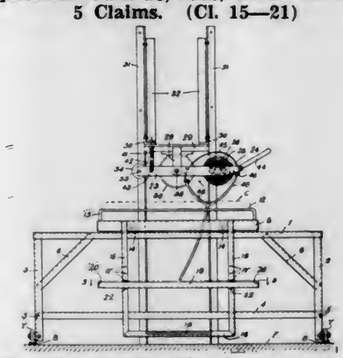
2,156,881

CUSHION SCRUBBING MACHINE

Victor C. Snyder, Cleveland, Ohio, assignor to The French Renovating Company, Cleveland, Ohio, a corporation of Ohio

Application June 16, 1938, Serial No. 214,066

5 Claims. (Cl. 15—21)



1. In a cleaning machine for car seat cushions and the like, the combination with a horizontally arranged rotary brush, said brush being movable in a vertical direction, of a frame movable transversely and longitudinally relatively to said brush, said frame comprising a horizontal section adapted to receive and support a cushion flatwise with its upper face in a plane suitable for engagement by said brush and a vertical section adapted to receive and support such cushion edgewise with the upper edge thereof in approximately the same plane as its upper face is thus supported by said horizontal section.

2. In a machine of the character described, a substantially fixed horizontal support, a brush frame pivotally suspended from said support, said brush frame including spaced parallel bars with a rotary brush mounted therebetween at one end of said frame, an upwardly concave shield carried between said bars and disposed over said rotary brush and forming a splash plate for matter thrown thereagainst by said brush, said plate having at a lower side edge a trough-like portion and flexible conduit means connected to said portion for conducting away such matter.

2,156,882

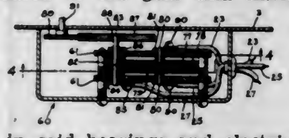
CIRCUIT CLOSER

Walter A. Specht, Minneapolis, Minn.

Original application May 16, 1935, Serial No. 21,828. Divided and this application December 16, 1935, Serial No. 54,723

2 Claims. (Cl. 200—6)

1. A circuit closer comprising a pair of spaced parallel frame members of insulating material, a gear of non-conductive material mounted between said frame members, bearings of conductive material secured in said frame members and having means whereby a pair of electric wires may be connected thereto, segmental conductor plates secured to the gear and having pivots



mounted in said bearings and electrically connecting the segments to said bearings, and a pinion adapted to be connected to a source of electric energy, said pinion meshing with said gear and alternately engaging the conductor plates whereby said conductor plates are alternately energized to control current flow through said wires.

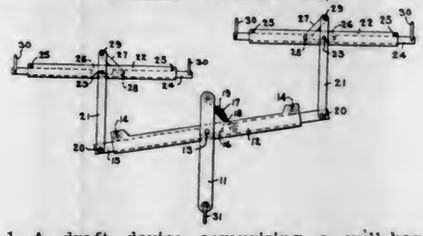
2,156,883

DOUBLETREE

Clarence Steffen, Cold Spring, Ky.

Application March 22, 1937, Serial No. 132,334

3 Claims. (Cl. 278—20)



1. A draft device comprising a pull-bar, a cross-bar pivoted to said pull-bar, a tree slidable endwise on said cross-bar and a link connecting the pull-bar to said tree for causing said slidable tree to move outward from said pivot on the side of the cross-bar which is moved in advance of said pivot.

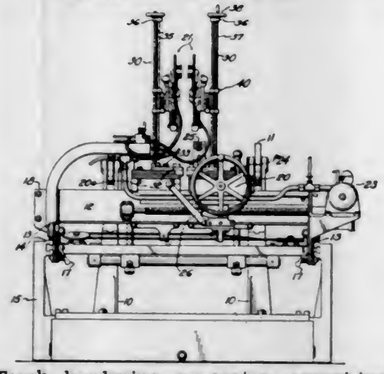
2,156,884

APPARATUS FOR HARDENING METALLIC BODIES BY THE LOCAL APPLICATION OF HEAT

William E. Sykes, Buffalo, N. Y.

Application February 27, 1937, Serial No. 128,238

15 Claims. (Cl. 266—4)



1. Torch hardening apparatus comprising a standard, a slide member, means connecting the slide member to the standard, a torch carriage

mounted for lineal movement along said slide member, a semi-cylindrical socket formed in said carriage, a torch having a cylindrical body portion rotatably mounted in the socket, and a flexible band secured to the carriage and disposed about the protruding portion of the body portion to retain it in said socket.

2,156,885

MULTISHUTTLE BOX

Richard Greenleaf Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application October 1, 1936, Serial No. 103,543

7 Claims. (Cl. 139—184)



1. In a shuttle box for looms, a top plate of sheet metal to form the upper part of the box, a guide tongue projecting from the top plate, a bottom plate of sheet metal similar to the top plate, a guide tongue projecting therefrom, a floor plate resting on the bottom plate and formed of wear resisting composition material, a tongue formed on the floor plate, a spacing block located between the floor plate and the top plate, a guide tongue on the block, and means passing through the plates and block to hold the tongues in alignment and the plates adjacent the block against the latter.

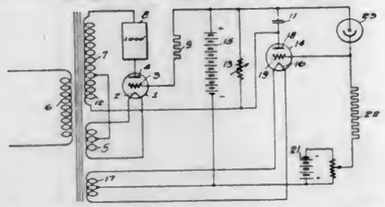
2,156,886

ELECTRIC DISCHARGE APPARATUS

Edwin H. Vedder, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 27, 1937, Serial No. 171,398

12 Claims. (Cl. 250—41.5)



1. In combination, a source of alternating current, a gaseous electrical discharge tube having principal electrodes supplied with current by said source and also having a control-electrode, means to vary the voltage of said control-electrode comprising a direct current source and an electric discharge tube having a control-electrode, a photoelectric cell illuminated by light impulses which are of duration brief compared with the period of said alternating current, connected to control the potential of the last-mentioned control-electrode, a capacitor provided with an adjustable leakage path connected to be charged by current from the last-mentioned electrical discharge tube, and bias means in series with said capacitor between the first-mentioned control electrode and the principal electrode circuit of the first-mentioned discharge tube, said bias means being of such value as to render the first-mentioned discharge tube non-conductive when said capacitor is uncharged.

2,156,887

DYESTUFFS OF THE ANTHRAQUINONE SERIES

Claus Weinand, Leverkusen I. G. Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 15, 1936, Serial No. 100,874. In Germany September 21, 1935

3 Claims. (Cl. 260—374)

1. The product of the reaction of 2 mols of a 1-amino-4-halogenanthraquinone-2-sulfonic acid and 1 mol of a p,p'-diaminodiphenylmethane in which both hydrogen atoms of the methanecarbon atom are substituted by a radical selected from the group consisting of alkyl and alkylene, said alkylene radicals being joined to form a six-membered ring.

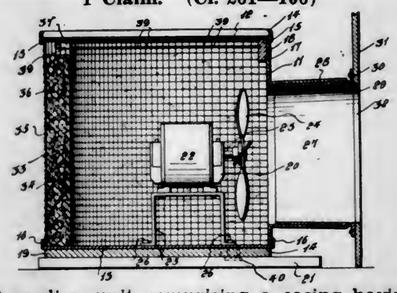
2,156,888

COOLING APPARATUS

Lou J. Wester, Indio, Calif.

Application May 19, 1938, Serial No. 208,926

1 Claim. (Cl. 261—106)



A cooling unit comprising a casing having a semi-circular top and bottom provided with upset marginal flanges forming pans, a front wall provided with an outlet, a fan mounted in said casing behind said outlet, a semi-circular filter wall disposed between said top and bottom and extending from one end to the other of said front wall, said fan being axially disposed relatively to the filter wall, and an arcuately shaped perforated pipe extending around the upper part of said filter wall and connected at its ends to said top, said top being adapted to contain a supply of water and having openings communicating with the ends of said pipe for supplying water, through said perforations, to the filter wall, and said bottom forming a pan to catch and retain the unused water.

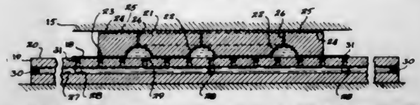
2,156,889

APPARATUS FOR DEFORMING SHEET MATERIAL

Wallace K. Wiley, Buffalo, N. Y., assignor, by mesne assignments, to Lawrence V. Whistler, Kenmore, N. Y.

Application April 20, 1937, Serial No. 138,008

5 Claims. (Cl. 113—44)



1. Apparatus for embossing a sheet including a platen, a die having a forming cavity, said sheet being arranged between said platen and die, a press having co-operating members for causing said platen and die to engage opposite sides of said sheet around the area within which

the embossment is to be formed, means for providing a clearance between the marginal edges of the back of said die and the associated press member so as to enable the marginal portions of the face of said die to yield slightly when said press members exert the necessary pressure upon it, said platen having an opening in the face which is located opposite said cavity, a duct formed in said platen which communicates with said opening and means for introducing a fluid medium into said duct under a pressure which will cause it to discharge through said opening to force into said cavity the portion of said sheet which is located opposite it.

2,156,890

TREATMENT OF FEATHERS AND SIMILAR STUFFING MATERIAL IN PILLOWS, CUSHIONS, AND THE LIKE

Theodor Würinger, Vienna, Austria

Application October 4, 1934, Serial No. 746,922
In Austria October 23, 1933
7 Claims. (Cl. 19—72)



1. An apparatus for loosening and removing dust from filling material such as feathers within an envelope such as a pillow or cover comprising a long double nozzle adapted to be inserted into the envelope having at least one gaseous medium outlet opening and at least one constricted gaseous medium intake opening in proximity to said outlet opening, a blowing device connected with said double nozzle whereby the gaseous medium emanating from the outlet opening loosens the filling material and the gaseous medium withdrawn through said intake opening carries along therewith the dust which is whirled up, without the necessity for the gaseous medium to pass through a large layer of the filling material, and a control element in the nozzle for withdrawing the gaseous medium.

2,156,891

PREPARATION FOR MEDICINAL USE

Bernard L. Wyatt and Harry E. Thompson, Tucson, Ariz., assignors, by mesne assignments, to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application May 24, 1937, Serial No. 144,544
12 Claims. (Cl. 167—58)

1. A preparation for medicinal use for the treatment of arthritis and fibrositis comprising a bile pigment and one of the class consisting of bile acids and salts of bile acids.

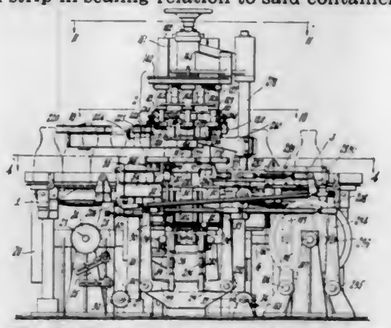
2,156,892

METHOD OF AND MACHINE FOR SEALING CAPPED CONTAINERS

Samuel B. Field, Holbrook, and Edward T. Walter, Quincy, Mass., assignors to American Seal-Kap Corporation of Delaware, Long Island City, N. Y., a corporation of Delaware

Application November 14, 1936, Serial No. 110,804
31 Claims. (Cl. 216—29)

23. The method of sealing a capped container, which comprises saturating a sealing strip which shrinks on drying, drying the saturated strip to a predetermined amount short of dryness, and then promptly winding and securing said partially dried strip in sealing relation to said container.



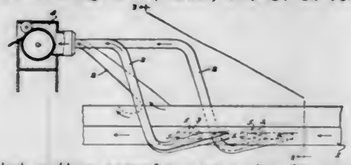
24. The method of applying a flexible strip to a receptacle, comprising bringing the strip into contact with the side of the receptacle in the presence of an adhesive, pressing the strip thus contacting with the receptacle to the receptacle, moving the receptacle bodily in one direction to feed the strip longitudinally, holding the strip at a point remote from the receptacle, cutting the strip at a point rearwardly of the holding point, and then turning the receptacle upon its axis to wind the cut strip thereon.

2,156,893

COTTON SAMPLER APPARATUS

George E. Gaus, Washington, D. C., and Gerald N. Franks, Leland, Miss., assignors to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office

Application October 7, 1938, Serial No. 233,773
3 Claims. (Cl. 19—156)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Lint cotton sampler apparatus in combination with a lint flue connecting a cotton gin with a cotton condenser, comprising a plurality of conveyor ducts tapped into said flue in helical spaced relation, bat-forming means subjoined to said ducts, and baffle means disposed in said flue in proximity to said ducts for diverting into said ducts portions of air-borne lint cotton passing through said flue without substantially obstructing the general flow stream thereof.

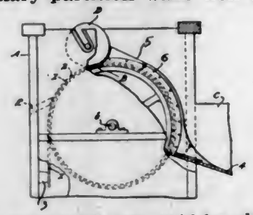
2,156,894

COTTON SAMPLER FOR COTTON CONDENSERS

George E. Gaus, Washington, D. C., and Victor L. Stedronsky, Leland, Miss., assignors to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office

Application October 7, 1938, Serial No. 233,774
3 Claims. (Cl. 19—156)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a cotton condenser having a screen condenser cylinder, a compression roller co-acting therewith, and an intake flue transition; means for producing a sample bat of lint cotton, said means comprising parallel imperforate bands secured concentrically about the condenser cylinder, stationary partition walls non-collective of



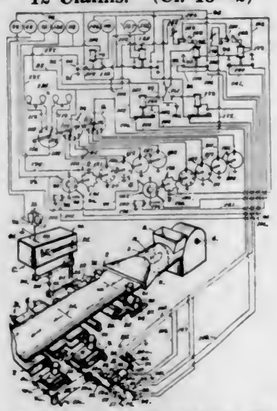
lint cotton supported over said bands on the intake side of the condenser between said compression roller and the floor of the inlet flue transition, there being a small clearance between said walls and said bands, and flexible sealing members attached to the sides of said walls extending outwardly and slidably contacting said bands.

2,156,895

WEIGHT CONTROL SYSTEM

Edmond Godat, Los Angeles, Calif.

Application February 12, 1938, Serial No. 190,281
12 Claims. (Cl. 18—2)



1. In a weight control system, the combination with an electrically operated weight adjusting device, of weighing means, a weight indicator, and electrical means for automatically controlling said device and said indicator responsive to operation of said weighing means, and including photo-electric cells, circuits controlled thereby, a source of light, an electrically operated light director movable for casting a beam of light onto said indicator and said photocells so that said beam will be visible on said indicator when directed away from said photocells, and invisible on said indicator when directed onto one of the photo-cells.

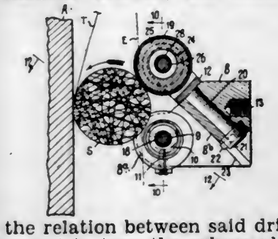
2,156,896

METHOD AND APPARATUS FOR WINDING BALLS

Frank Honig, Pawtucket, R. I.

Application May 12, 1936, Serial No. 79,252
13 Claims. (Cl. 242—3)

1. The method of changing the pattern of winding filament on spherical cores, which comprises, supporting said sphere in a pocket, driving said sphere through a single point to turn it about its geometric center while simultaneously winding filament thereon, and simultaneously



changing the relation between said driving point and the support to turn the sphere also about a center other than said geometric center.

2,156,897

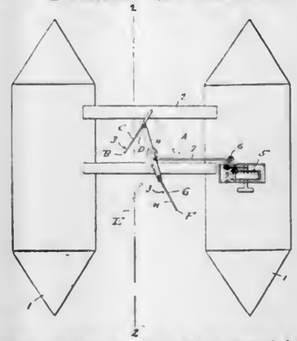
WITHDRAWN

2,156,898

PROPULSION MEANS

Don C. Lo Giudice, Ansonia, Conn.

Application December 13, 1937, Serial No. 179,568
1 Claim. (Cl. 115—28)



In combination, a pair of buoyant bodies, pairs of vertically spaced, transverse bars for connecting said bodies in spaced parallelism, a pair of longitudinally aligned blades mounted for oscillation in a horizontal plane between the pairs of bars, a lever pivotally connected, at an intermediate point, to one of the upper bars and pivotally and slidably connected at its ends to the blades, and means for actuating the lever, said lever constituting means for connecting the blades together for oscillation in unison but in opposite directions relative to each other.

2,156,899

HOSE CONSTRUCTION

Robert C. Pierce, Niles, Mich., assignor to National Standard Company, Niles, Mich., a corporation of Michigan

Application December 27, 1937, Serial No. 181,890
2 Claims. (Cl. 154—8)



1. In hose manufacture, the step of first pre-

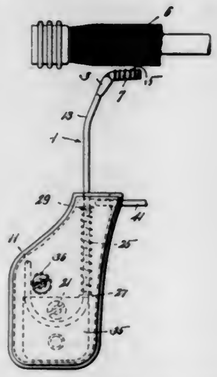
forming a wire reinforcement to give it a permanent set of substantially the same degree of spiral curvature as the reinforcement will assume in the completed hose and then incorporating the same with the wall of the hose.

2,156,900

FILLING FEELER FOR LOOMS

Edwin W. Barrett, Barrington, and Percy Hargreaves, Warren, R. I., assignors to Warren Textile and Machinery Supply Co., Warren, R. I., a corporation of Rhode Island

Application February 1, 1937, Serial No. 123,368
8 Claims. (Cl. 139—282)



1. A filling-feeler device for looms having, in combination, a feeler base, a side-slipping feeler member mounted to slide and swing directly on such base and having a filling-engaging rearward end and its other end bent reversely to form a hook at the frontward end, a flat surface on the base on which the portion of the feeler member at and adjacent the hook rests and slides, a second flat surface on the base overlying the portion of the feeler member just described, an abutment interposed between these two surfaces occupying the bend of the hook, a spring surrounding the feeler member between the hook and the filling-engaging end, supported by edges of the said flat surfaces and urging the feeler member rearward.

2,156,901

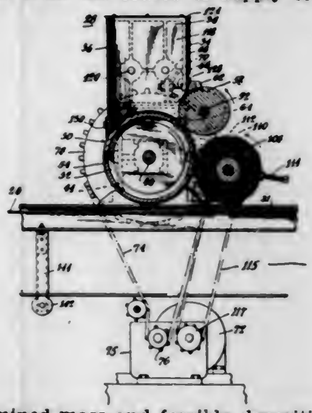
METHOD AND APPARATUS FOR FEEDING AND DISTRIBUTING SLUDGY MATERIALS

Thomas Brady, Bloomfield, N. J., assignor to Bakelite Building Products Co., Inc., New York, N. Y., a corporation of Delaware

Application December 9, 1936, Serial No. 114,909
22 Claims. (Cl. 91—44)

3. Apparatus for applying sludgy material to a surface comprising a fountain for storing a quantity of said material, means for continuously withdrawing predetermined quantities of sludge including a withdrawing roll, a resilient gate roll in close proximity to the withdrawing roll and impeller means out of contact with said surface for removing the material from the withdrawing roll and applying it to said surface.

18. The method of feeding and applying a sludgy material to a surface, which comprises providing a source of supply of sludgy material, feeding and moving a portion of said material from said supply to a point adjacent said surface, trowelling the moving material while removing it from the source of supply to feed a



predetermined mass and forcibly depositing said mass over said surface.

2,156,902

ELECTRIC SWITCH

Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana

Application September 9, 1935, Serial No. 39,743
9 Claims. (Cl. 200—64)



1. A high capacity switch mechanism comprising a pair of frame plates spaced apart and supported on a pair of flat metal terminal plates, a multi-leaf stationary contact member mounted on each terminal plate and having a portion extending inwardly to lie between said frame plates, a bridging contact member rotatably mounted between the contacts, and an insulating member corresponding substantially with the shape of a terminal plate removably mounted on the inside surface of each terminal plate adjacent the point of contact between the bridging contact member and stationary contact to insulate each metal terminal plate at the inside thereof.

2,156,903

MANUFACTURE OF GEL-TYPE METALLIC OXIDE CATALYSTS

Robert F. Ruthruff, Nutley, N. J., assignor to Process Management Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application December 22, 1937, Serial No. 181,060
7 Claims. (Cl. 23—233)

1. In the preparation of catalysts of the metallic oxide gel type by reaction of a metallic salt and a hydroxide reagent in aqueous solution to precipitate the hydroxide of the metal as a gelatinous mass, the steps comprising mixing with an aqueous solution of the metallic salt an aqueous solution of an hydroxide capable of substantial ionization in the resulting solution by progressive addition of the latter to the metallic salt solution, regulating the concentrations of said solutions to produce a resulting solution in which the concentration of unreacted metallic salt is sufficient to effect rapid peptization of the metallic hydroxide product, continuing the said addition rapidly with agitation of the resulting solution until the unreacted metallic salt present in the resulting solution is insufficient to peptize additional hydroxide reaction product, discontinuing addition of said hydroxide to the resulting solution, adding to said resulting solution in an amount at least equivalent to the excess acid thereof a base which is not substantially ionized in said solution, heating the resulting solution to increase the ionization therein of said last added base and effect precipitation of said metallic hydroxide product as a gelatinous mass, regulating the concentration of said solution prior to said precipitation therein whereby the concentration of soluble salts in said solution is insufficient to effect their substantial adsorption by said precipitate, separating the precipitate thus obtained from said solution, and drying said separated precipitate to produce therefrom a vitreous metallic oxide catalyst.

2,156,904

MANUFACTURE OF GEL-TYPE METALLIC OXIDE CATALYSTS

Robert F. Ruthruff, Nutley, N. J., assignor to Process Management Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application December 21, 1937, Serial No. 180,941
4 Claims. (Cl. 23—233)

1. In the preparation of catalysts of the metallic oxide gel type by the reaction of a metallic salt and a readily soluble hydroxide in aqueous solution to precipitate the hydroxide of the metal as a gelatinous mass, the steps comprising rapidly mixing aqueous solutions of the metallic salt and the hydroxide reagent by progressive addition of the latter to the metallic salt solution, regulating the concentrations of said solutions to produce a resulting solution in which the concentration of unreacted metallic salt is sufficient to effect rapid peptization of the metallic hydroxide reaction product, continuing the said addition rapidly with agitation of the mixture until the unreacted metallic salt is insufficient to peptize additional metallic hydroxide reaction product, thereafter regulating the concentrations of the hydroxide reagent and the resulting solution whereby on continued addition of the said reagent the resulting precipitate is brought down in a diluted solution in which the concentration of soluble salts is insufficient to effect the substantial adsorption thereof by said precipitate, continuing said addition after said last-mentioned regulation slowly with agitation to effect precipitation of the metallic hydroxide as a gelatinous mass, separating said precipitate from said solution, and drying the precipitate to form a vitreous metallic oxide catalyst.

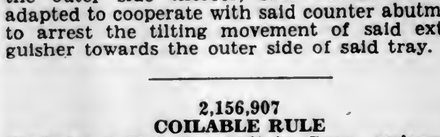
2,156,905

COILABLE MEASURING RULE

Austin L. Stowell and Frederick A. Volz, New Britain, Conn., assignors to The Stanley Works, New Britain, Conn., a corporation of Connecticut

Application February 13, 1937, Serial No. 125,531
7 Claims. (Cl. 33—138)

7. A coilable rule for taking inside and outside measurements, comprising a two-part flexible measuring strip having a concavo-convex cross section and an inherent tendency to assume a rectilinear state, a casing for said strip, said strip including a body portion and an extension therefor, said strip being slidably mounted on the body portion, cooperating means carried by said strip and body portion for positioning said extension in forwardly projecting alignment with the body portion, and cooperating means carried by said



casing and extension member for positioning the extension in rearwardly projecting alignment with said body portion, said extension member and body portion being provided with a scale thereon in such cooperating relationship that a direct reading is obtained in either of the two extension positions.

2,156,906

ASHTRAY WITH EXTINGUISHER FOR CIGARETTES OR CIGARS

Franjo Vajda, Sl. Brod, Yugoslavia, assignor to Dr. Josip Abramovic, Brod n/S., Yugoslavia

Application May 1, 1936, Serial No. 77,415
In Yugoslavia January 10, 1936
1 Claim. (Cl. 131—51)



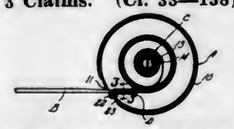
An ash-tray comprising in combination a tray with a vertical peripheral wall, two parallel upwardly projecting rods formed on the upper side of said wall, a tubular extinguisher closed at its lower end and arranged between said rods, horizontal pintles formed by two coaxial pins projecting horizontally outwards from diametrically opposite points of said tubular extinguisher in the upper half of its length, said pins being journalled in bores in said rods and adapted to oscillatably support said extinguisher on said arms, a step-shaped abutment formed by a cut-away portion on the bottom of said extinguisher directed towards the middle of the tray, and a counter abutment formed on the upper side of said wall between said rods by a groove extending partly across the upper side of said wall from the outer side thereof, said abutment being adapted to cooperate with said counter abutment to arrest the tilting movement of said extinguisher towards the outer side of said tray.

2,156,907

COILABLE RULE

Frederick A. Volz, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut

Application February 12, 1937, Serial No. 125,357
3 Claims. (Cl. 33—138)



1. In a coilable measuring device of the character described, a resilient measuring tape having a transverse curvature and an inherent tendency to assume a rectilinear state, a casing having a peripheral wall provided with an entrance

slot through which said tape is moved, a winding spring within the casing and secured to the inner end of said tape for aiding the measuring tape into a coil, and a clip adjacent to said entrance slot and comprising a generally flattened sleeve having a passageway through which the tape projects, said passageway being of lesser depth than is the sagitta of the arc formed by the tape itself.

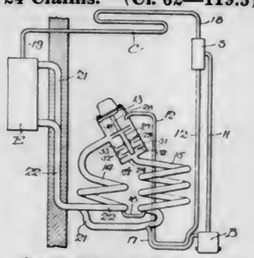
2,156,908

ABSORBER FOR REFRIGERATING SYSTEMS

Earl Babcock, Evanston, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application June 3, 1935, Serial No. 24,625

24 Claims. (Cl. 62—119.5)



1. In an absorption refrigerating system, an absorber having a plurality of parts, means for supplying absorption liquid to said absorber, rotating means for dividing the absorption liquid into a plurality of streams, and means for conveying the streams into different parts of said absorber.

9. The method of operating an absorber device in an absorption refrigeration system of the type employing a refrigerant, an absorption fluid and a pressure equalizing medium comprising subdividing weak absorption fluid into two main bodies, passing a rich mixture of refrigerant and pressure equalizing medium in gaseous phase in counterflow over one of said bodies of absorption fluid, then passing the resultant lean mixture of gases over the other body of absorption fluid whereby the mixture is stripped of additional refrigerant, and then uniting said two bodies of absorption fluid.

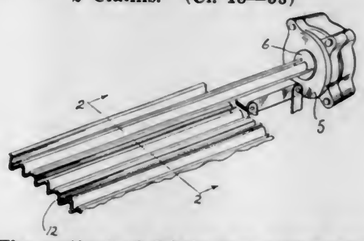
2,156,909

METHOD OF HANDLING STRIPS OF EXTRUDED MATERIAL

Lester C. Boyer, Toledo, Ohio

Application July 31, 1937, Serial No. 156,702

2 Claims. (Cl. 18—53)



1. The method of fabricating rubber strips of comparatively thin wall formation having in cross-section a plurality of angularly disposed portions which includes, extruding the strips to substantially the finished conformation, supporting each portion of the strip against sagging throughout its length, and curing the strip while they remain so supported and with the top surface thereof exposed and unconfined.

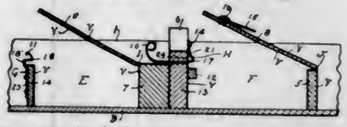
2,156,910

MUSICAL INSTRUMENT CARRYING CASE

Morris Brooks, Newark, N. J.

Application April 16, 1936, Serial No. 74,671

5 Claims. (Cl. 206—14)



1. In a musical instrument case comprising an accessory receptacle including a hinged cover and having an instrument rest, said rest including a top part, the cover being below said part, and there being one end of the cover removably supported on the rest; a latch mounted on said part, said latch having a resilient catch portion disposed in the path of said end, and a manipulable portion extending from the first portion whereby the latter may be manually sprung out of catching position.

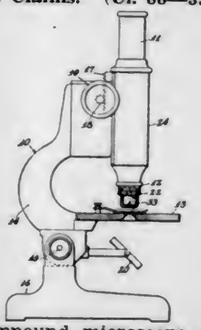
2,156,911

MICROSCOPE

Leo H. Brown, New York, N. Y.,

Refiled for abandoned application Serial No. 43,765, October 5, 1935. This application November 6, 1937, Serial No. 173,109

2 Claims. (Cl. 88—39)



2. In a compound microscope, an eye-piece-supporting and objective-supporting tube, an adjustable eye piece at one end of the tube, a first member removably attached to the other end of the tube and having an opening therein, a hollow member attached to the first member and having a mirror chamber therein, said hollow member having an opening therein at its end remote from the first member, the combined lengths of the first and hollow members being less than the length of the tube, a first mirror supported within the chamber adjacent the first member and facing the opening in the hollow member, a second mirror in the chamber adjacent the outer end of the hollow member and facing the opening of the first member and also facing the reflecting surface of the first mirror, at least one of said mirrors having a concave reflecting surface, a microscope frame including a stand, a stage carried by the frame below the supporting tube and cooperating means on the frame and the supporting tube for adjusting the outer end of the hollow member to a position closely adjacent the stage.

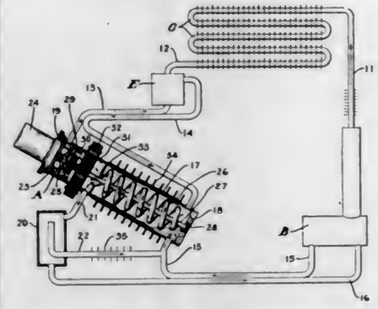
2,156,912

ABSORBER FOR REFRIGERATING SYSTEMS

Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 27, 1935, Serial No. 23,628

25 Claims. (Cl. 62—119.5)



11. That method of producing refrigeration which includes applying heat to rich absorbent liquid to liberate a refrigerant gas, allowing the refrigerant to evaporate into a pressure equalizing medium after liquifying the same, said method being characterized by the fact that a stream of the resulting gaseous mixture is divided into a plurality of smaller streams, circulating one of said streams in contact with lean absorbent fluid over an extended path, passing another of said streams into intimate contact with but in counter-flow to another body of absorbent fluid, and thereafter returning the enriched absorbent to the heating zone and the pressure equalizing medium to the evaporating zone.

12. An absorber adapted for use in an absorption refrigerating system, comprising a closed vessel disposed in other than a vertical position and having means thereon for air cooling the same, a shaft extending longitudinally within said vessel, hermetically sealed means for rotating said shaft, a plurality of plates having openings therein and arranged to extend transversely across said vessel in spaced relation and a plurality of rotors fixed to said shaft in spaced relation so as to alternate with said plates, means for causing absorption liquid to flow over the plates and rotors in said vessel, by gravity, in sequence, first over a portion of one of said plates and then in contact with one of said rotors to be splashed around the inner wall of the vessel thereby the arrangement being such that pools are formed on portions of said plates, and means for circulating an inert gas laden with a refrigerant gas through said vessel in a direction opposite to the flow of absorption liquid therethrough, the arrangement being such that the liquid and gases are brought into intimate contact as the result of rotation of said rotors and the splashing action resulting therefrom while causing the rapid dissipation of the heat of absorption to said air cooling means as the result of the splashing of the liquid around the inner wall of the vessel.

2,156,913

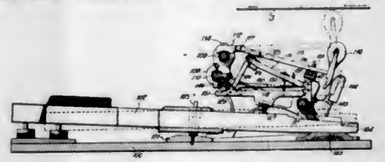
PIANO ACTION

William S. Finholm, Forest Hills, N. Y.

Application January 24, 1936, Serial No. 60,553

4 Claims. (Cl. 84—239)

1. In a piano action, a repetition mechanism including a fly lever and a balancing lever, means for pivotally mounting said fly lever and said balancing lever independently of each other, a fly pivotally mounted on the fly lever, said fly having a free upper end for engagement beneath the balancing lever, a resilient member



carried by the under side of the balancing lever and having engagement with the fly, means for adjusting the tension of said resilient member, and means for preventing increase in tension upon said resilient member during an operation of the repetition mechanism.

2,156,914

STAINLESS STEEL

Albert L. Kaye and Robert S. Williams, Belmont, and John Wulff, Cambridge, Mass., assignors to Chemical Foundation, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 17, 1936, Serial No. 91,096

5 Claims. (Cl. 75—128)

1. The method of increasing the resistance of the 18 chromium-8 nickel type of stainless steel to pit corrosion in saline media which consists of forming on the exposed surface of the steel a continuous self-healing film of a silver compound originating from silver which is intra-granularly included in the steel.

2,156,915

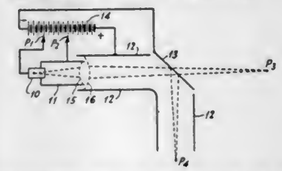
ARRANGEMENT FOR REFLECTING OF CATHODE RAYS

Max Knoll, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application March 14, 1936, Serial No. 68,970

In Germany March 16, 1935

15 Claims. (Cl. 250—159)



12. An electron mirror comprising a tubular electrode having an aperture therein and its ends lying in mutually perpendicular planes, and a plane electrode concentric and in a parallel plane with the aperture.

2,156,916

FLASHLIGHT

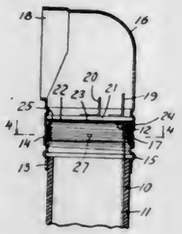
Walter R. Kopp, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware

Application April 10, 1936, Serial No. 73,657

3 Claims. (Cl. 240—10.67)

1. A hand lamp comprising a casing, a head secured to one end of the casing and rotatable relative thereto, and abutment means adjustable in said casing lengthwise thereof and adapted to

abut a part fixed to the head for adjustably and positively limiting the rotational movement of



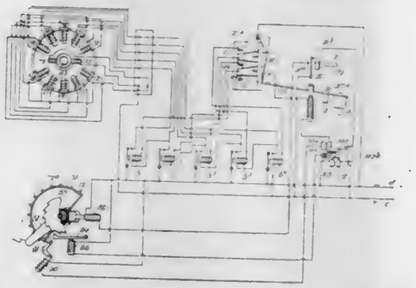
said head in one direction to determine the angular position thereof relative to the casing.

2,156,917

MEASURING AND DISTRIBUTING MACHINE

Frank G. Leavenworth, Oak Park, Ill., assignor, by mesne assignments, to Packers Machinery Company, Chicago, Ill., a corporation

Application March 6, 1936, Serial No. 67,466
25 Claims. (Cl. 209—75)



2. In apparatus of the character described, the combination of a trough, means for feeding an intestine through the trough, means for measuring the diameter of the intestine, comprising variable electrical resistance means, means for moving the resistance means transversely of the intestine, means controlled by the diameter of the intestine for varying the electrical resistance and a series of switches controlled by said resistance means, and distributing means for the intestine according to its diameter, controlled by the series of switches.

2,156,918

STABILIZED SOLUTIONS OF METAL-ORGANIC COMPOUNDS AND METHOD OF MAKING THE SAME

Willard E. Lyons, Chicago, Ill., assignor to Leo Corporation, Chicago, Ill., a corporation of Illinois

No Drawing. Application May 7, 1937, Serial No. 141,255
12 Claims. (Cl. 44—9)

1. The method of stabilizing a solution of a metal beta diketone in gasoline in the presence of a water phase, which comprises incorporating a gasoline insoluble, but water soluble substance into said water phase to furnish hydrogen ions in an amount sufficient to inhibit the hydrolysis and hydration of said metal beta diketone compound.

2,156,919

SULPHUR OILS

Henry F. Merriam, West Orange, N. J., and George W. Cupit, Jr., Massapequa Park, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application June 30, 1936, Serial No. 88,120
8 Claims. (Cl. 260—139)

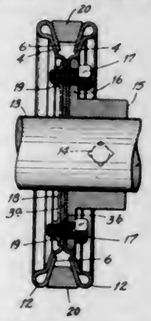
1. The method for making sulphurized oil which comprises heating sulphur and a terpene oil at temperature sufficiently high to effect incorporation of sulphur with the oil but at temperature not substantially in excess of 250° C., distilling the resultant oil mass at temperature less than that at which substantial decomposition of the oil mass takes place, and recovering the oil residue, said distillation operation being continued for a time interval until such a sufficient amount of substance comprising unreacted and feebly combined oil has been removed that substantially no sulphur separates out of said oil residue on standing.

2,156,920

PRESSED STEEL PULLEY AND METHOD OF PRODUCING SAME

Orville Mitchell, Dallas, Tex.

Application June 20, 1936, Serial No. 86,295
4 Claims. (Cl. 29—159)



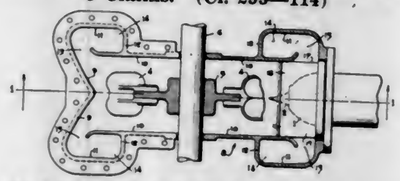
1. A pressed metal pulley comprising two circular metal blanks having flat central portions secured together and diverging circumferential portions bent upon themselves to provide smooth, round rims and inwardly extending members forming a groove having straight, converging sides and walls of double thickness.

2,156,921

IMPULSE TURBINE

Lewis Ferry Moody, Princeton, N. J.

Application July 15, 1936, Serial No. 90,625
6 Claims. (Cl. 253—114)



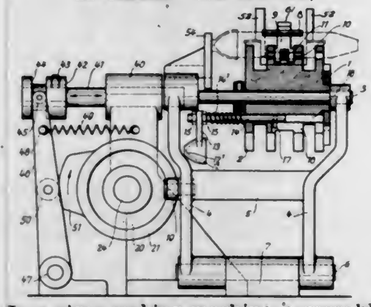
1. In a Pelton impulse turbine having a runner with buckets of the central splitter type, a housing having a substantial portion formed as part of a surface of revolution generated by two inclined lines receding from the central plane of the runner to points beyond its sides while at the same time receding from the runner axis to form a V-shaped circular surface located radially outside of the runner periphery and around a substantial portion thereof, and means for preventing water discharged along said V-shaped surface from reentering the portion of the housing in which the runner is located.

2,156,922

CIGAR MAKING MACHINE

Constantin Friedrich Röber, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Mueller & Co., Dresden, Germany

Application June 13, 1936, Serial No. 85,138
In Germany June 15, 1935
11 Claims. (Cl. 131—39)



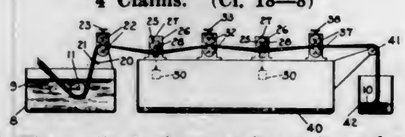
2. In a cigar making machine, a movable carrier, means for delivering a cigar from the machine to the carrier, releasable clamping means for holding the cigar on the carrier, means carried by said delivering means for moving said clamping means to released position to receive a cigar, a cup-shaped member movable with the carrier and engageable with an end of the cigar to hold the wrapper against unwinding, yieldable means constantly urging said cup-shaped member to inoperative position, slidable means engageable with said cup-shaped member to move said cup-shaped member to operative position, a stationary member engageable with said cup-shaped member upon movement of the carrier to maintain the cup-shaped member in operative position, means for moving the carrier, and means active upon movement of the carrier in one direction for moving said clamping means to released position.

2,156,923

METHOD AND APPARATUS FOR THE PRODUCTION OF CELLULOSIC STRUCTURES

René Picard, Paris, France, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 17, 1935, Serial No. 31,891
In France August 4, 1934
4 Claims. (Cl. 18—8)



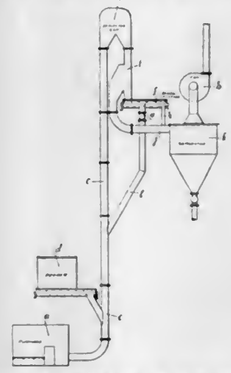
4. The method of processing a large bundle of regenerated cellulose continuous filaments which comprises the steps of drawing the said bundle from a coagulating liquid, gripping, positively forwarding, wringing and compressing said bundle of filaments substantially simultaneously, firmly gripping and positively forwarding said bundle of filaments at a point spaced from the first point of gripping and positively forwarding, continuously imparting a substantially constant and uniform stretch thereto between said points of gripping and forwarding, releasing the tension from said bundle, again firmly gripping and positively forwarding said bundle of filaments at two spaced points in a continuous manner, imparting a further constant and uniform stretch thereto between said last named points of gripping and forwarding, and subjecting said bundle of filaments to liquid treatment during at least one of said stretching steps.

2,156,924

PNEUMATIC CIRCULATION DRIER

Ernst Schneider, Uerdingen-on-the-Rhine, Germany, assignor to Buttner-Werke Aktiengesellschaft, Uerdingen, (Niederrhein) Germany

Application December 31, 1935, Serial No. 56,907
In Germany January 2, 1935
7 Claims. (Cl. 34—34)



1. A drying apparatus of the pneumatic type comprising in combination, a hot air or gas generator, a material classifier, a pipe line connecting said material classifier with said hot air or gas generator, means for effecting a circulation of hot air or gases through said pipe line, means for introducing material to be dried into said pipe line, means intermediate of the ends of said pipe line for extracting a portion of the material from the bulk of material in the pipe line, means for presenting a portion of said material extracted to the material classifier, and means for returning the remainder of the material to the pipe line.

2,156,925

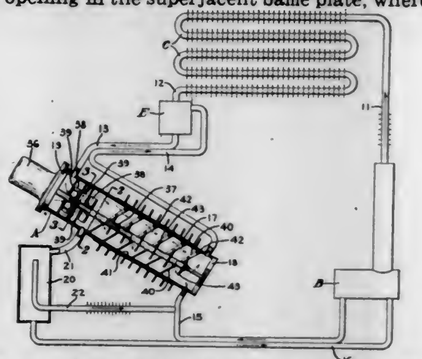
ABSORBER FOR REFRIGERATING SYSTEMS

Arnold D. Siedle, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application February 10, 1936, Serial No. 63,190
11 Claims. (Cl. 261—92)

1. An absorber adapted for use in a continuous absorption refrigerating system, said absorber including a closed inclined vessel, baffle plates in said vessel disposed in spaced relation and adapted to maintain a number of pools of liquid therein, said baffle plates having openings therein and power driven means disposed within said vessel and including a number of rotary members adjacent said baffle plates and disposed at acute angles thereto, the assembly being such that each rotary member dips into a pool formed by

the subjacent baffle plate and extends through the opening in the superjacent baffle plate, where-



by a portion of the spray created from each pool is thrown through the opening in a higher baffle.

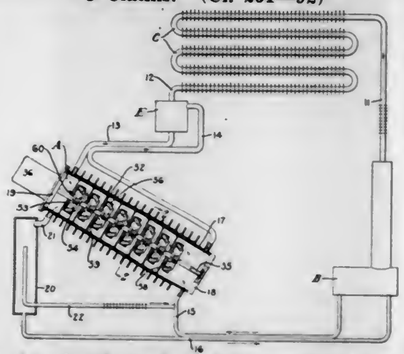
2,156,926

ABSORBER FOR REFRIGERATING SYSTEMS

Arnold D. Siedle, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application February 10, 1936, Serial No. 63,191

8 Claims. (Cl. 261—92)



1. An absorber adapted for use in a continuous absorption refrigerating system, said absorber consisting of a closed vessel having a number of baffle plates therein arranged in spaced relation, and power driven means sealed therein for circulating absorption liquid therethrough and for bringing gas and liquid therein into intimate contact, said power driven means including motive means and a number of spaced elements mounted for rotation in planes disposed in parallel to the planes in which the baffles are located said baffles having offset means for catching liquid thrown by said elements from a liquid level maintained by one baffle plate to a higher level maintained by another baffle plate, whereby liquid is caused to flow upwardly through said absorber.

2,156,927

ZEIN COMPOSITION

Oswald Sturken, Closter, N. J., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 23, 1935, Serial No. 41,766. Renewed December 8, 1937

3 Claims. (Cl. 134—23.8)

1. An adhesive comprising a 20–35% solution of zein in aqueous alcohol containing from 2–50% of formaldehyde, based on the weight of the zein.

2,156,928

PROCESS FOR THE PRODUCTION OF ZEIN

Lloyd C. Swallen, Pekin, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 8, 1935, Serial No. 20,404. Renewed January 6, 1938

7 Claims. (Cl. 260—123)

1. Process for obtaining zein in a dry solid state from a solution of zein in a water soluble organic solvent that can be removed from zein by washing which comprises mixing water with the solution and thereby diluting the solvent in said solution and agitating the mixture until the zein precipitates and assumes a non-sticky doughy consistency, separating this doughy mass from the supernatant liquid, forming said mass into bodies of suitable thickness for water penetration, soaking said bodies in water whereby the residual solvents are removed, separating the resulting aqueous solution of residual solvents and finally drying said bodies at temperatures low enough to prevent fusing the zein during drying.

2,156,929

ZEIN FILAMENTS

Lloyd C. Swallen, Terre Haute, Ind., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 3, 1935, Serial No. 38,977

2 Claims. (Cl. 18—54)

1. Process for the production of zein filaments which comprises: extruding a solution of zein through a filament forming orifice into an aqueous coagulating medium containing formaldehyde; withdrawing the filament and heating the same to evaporate water and promote reaction between the formaldehyde and zein.

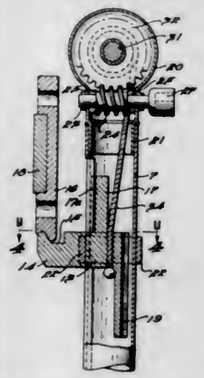
2,156,930

JACK

Eugene Wallace, Castleton, Kans.

Application July 27, 1936, Serial No. 92,740

2 Claims. (Cl. 254—150)



1. In a jack, a sheet metal support column having a vertically extending slot therein, a lifting lug mounted for movement within said column and having a portion projecting through said slot, inturned substantially parallel flanges formed on said column at the marginal edges of said slot, said lifting lug having recesses therein adapted to receive said flanges.

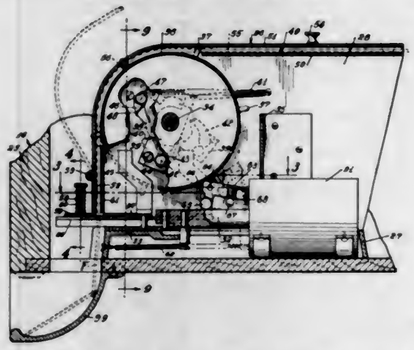
2,156,931

SEVERING AND DISPENSING APPARATUS

Harry E. Williams, Chicago, Ill., assignor to Rock-Ola Manufacturing Corp., Chicago, Ill., a corporation of Delaware

Application June 25, 1936, Serial No. 87,228

10 Claims. (Cl. 164—49)



10. Mechanism for severing successive portions of a web and dispensing the same comprising a switch provided with a movable circuit closing arm and cooperating contacts, a plurality of selectably operable circuit closure members each when closed being electrically connected with certain of said contacts, a web severing device, a device for feeding a web thereto for severance of successive portions therefrom, electrically actuated means controlled by said switch for operating said severing and dispensing devices in synchronous relation a predetermined number of times in accordance with the circuit connections of said contacts with said selectably operable closure members, timing mechanism for operating said arm to and from circuit closing relation with respect to said contacts for effecting the intermittent action of said operating means, and a manually operable device adapted to energize said timing mechanism.

2,156,932

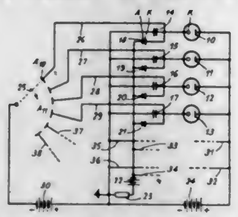
SIGNALING SYSTEM

Rudolf Urtel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application May 20, 1936, Serial No. 80,691

In Germany April 1, 1935

9 Claims. (Cl. 178—7.1)



1. The method of signaling, which comprises cyclically storing energy from a source of potential, limiting the value of the stored energy to a predetermined value of potential, maintaining the value of stored energy constant for a time period, said time period being an inverse function of the amount of energy stored, and discharging the stored energy at a rate determined by the intensity of light energy.

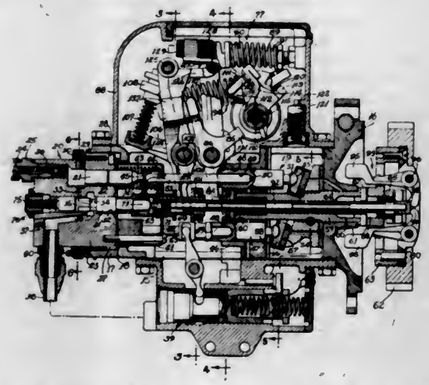
2,156,933

METERING PUMP

Carroll R. Alden, Detroit, Mich., assignor to Ex-Cell-O Corporation, a corporation of Michigan

Application February 5, 1937, Serial No. 124,220

26 Claims. (Cl. 123—140)



1. A pump mechanism comprising, in combination, a pump having a rotary metering valve axially adjustable to vary the quantity of pump delivery, a plurality of parallel reciprocatory pump units annularly arranged about said valve, spring means tending to urge said valve in a direction to increase said quantity, and drive means for operating said units in timed sequence and for rotating said valve in predetermined phase relation to said units, a stop element for limiting the position of said valve under the influence of said spring means, means for automatically adjusting said stop element in response to changes in the operating speed of said pump, and means for automatically limiting the maximum permissible adjustment of said valve in said direction independently of said last mentioned means.

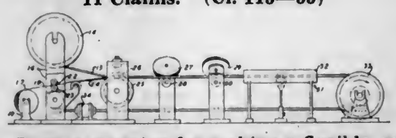
2,156,934

APPARATUS FOR MANUFACTURING ELECTRIC CABLES

Elliott P. Barrett, Pittsburgh, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Original application June 23, 1932, Serial No. 618,861, now Patent No. 2,121,942, dated June 28, 1938. Divided and this application October 9, 1936, Serial No. 104,810

11 Claims. (Cl. 113—33)



1. In an apparatus for making a flexible, watertight and electrically shielded electric cable, supply means for a metal tape, supply means for a central cable portion containing a conductor, a pair of corrugating rollers for corrugating the tape transversely without appreciable elongation, means for forming the tape around the central cable portion and longitudinally thereof, means for securing the edges of the tape together to form a continuous and water-proof sheath, take-up means for the sheathed cable, and means for driving the corrugating rollers and the take-up means.

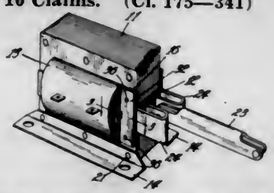
2,156,935
YARN AND FABRIC CONSTRUCTION
René Bouvet, Hazleton, Pa., and John Haesler, Teaneck, N. J., assignors to Duplan Silk Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 6, 1938, Serial No. 183,626
10 Claims. (Cl. 57—140)

1. A yarn construction comprising three intertwisted strands of a synthetic filament or rayon yarn of substantially different twist, one of said strands being initially twisted between about 0 and 15 turns, another being twisted between about 15 and 35 turns and the third being twisted between about 35 to 75 turns and the united twisting being between 5 and 25 turns.

2,156,936
PREPARATION OF HEXENE FROM DIVINYLACETYLENE
William Stansfield Calcott, Woodstown, N. J., Albert S. Carter, Wilmington, Del., and Frederick B. Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 22, 1937, Serial No. 154,998
3 Claims. (Cl. 260—683)

1. The process of preparing n-hexene-3 which comprises reacting under nonoxidizing conditions, divinylacetylene with an excess of hydrogen in the presence of a catalytic amount of active nickel at a temperature between 35° and 85° C. until the reaction practically ceases and separating n-hexene-3 from the reaction mass.

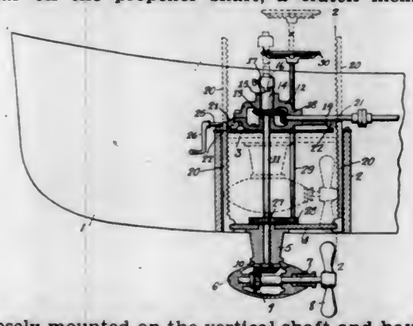
2,156,937
SOLENOID
Dean W. Davis, Chicago, Ill.
Application May 16, 1938, Serial No. 208,253
10 Claims. (Cl. 175—341)



9. A solenoid including in combination, a movable plunger unit having a laminated magnetic core and including coupling means therewith, a magnetic laminated frame for said plunger unit having an opening at one side for movement of the plunger therethrough and being completely closed at the opposite side so that no portion of the plunger extends through said magnetic laminated frame at such opposite side, said plunger unit having a recessed limiting-way therein shorter in length than the length of said core and lying wholly within the confines of the magnetic frame when the plunger is in operated position, means secured to said magnetic frame and extending across the opening therein out of the path of movement of said plunger unit having a portion thereof extending into said opening to ride in said limiting-way to limit the movement of said plunger unit.

2,156,938
MOTORBOAT
Wilbert A. Edwards, Reedville, Va.
Application August 4, 1938, Serial No. 223,065
3 Claims. (Cl. 115—35)

1. The combination with a boat having a well therein with an opening in the bottom thereof, a cover on the top of said well, a base movable up and down in said well, a propeller gear housing suspended from said base, a shaft projecting into said propeller housing, a propeller on the outer end of said shaft, a bevel-gear on the inner end of said shaft, a gear housing on the top of said well cover, a vertical shaft projecting through the housing on the top of said well cover and into the propeller gear housing, a bevel-gear on the lower end of said vertical shaft in mesh with the bevel-gear on the propeller shaft, a clutch member



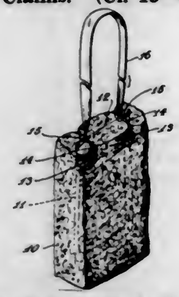
loosely mounted on the vertical shaft and having its lower end projecting into the housing on the well cover and provided with a bevel-gear thereon, a clutch member rigidly mounted on said vertical shaft and adapted to cooperate with the loosely mounted clutch member to revolve said vertical shaft, and an engine shaft projecting into the housing on the well cover and a bevel-gear on the inner end of said engine shaft in mesh with the bevel-gear on the inner end of the loosely mounted clutch member.

2,156,939
PACKER
Richard E. Fulkerson, Coffeyville, Kans., assignor to The Exner-Dodge Packer Company, Coffeyville, Kans., a corporation of Kansas
Application March 29, 1937, Serial No. 133,611
7 Claims. (Cl. 166—12)



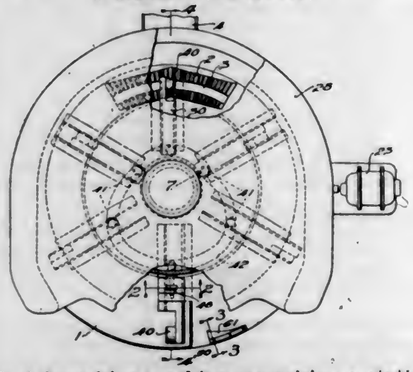
1. A packer including an upper tubular member, a slip carrier on the upper tubular member, slips on said slip carrier, a slip expanding head on the upper tubular member, means selectively connecting the upper tubular member with the slip carrier to prevent relative movement of the slip carrier with said tubular member, a lower tubular member having bayonet slots, a packing element sleeved on the lower tubular member and having one end anchoringly engaged with said lower tubular member, a setting ring connected with the other end of the packing element and having lug engaging portions, a tubing slidable through said tubular members, a collar on the tubing having lugs extending through the bayonet slots and into engagement with said lug engaging portions for latchingly connecting the tubing with said lower tubular member to normally prevent relative movement therewith, said tubing being rotatable in said members to release the slip carrier and said setting ring to effect setting of the slips and expansion of the packing element incidental to relative longitudinal movement of the tubing in said tubular members, and means on the slip carrier for preventing relative movement thereof incidental to movement of the tubing during setting of the slips and expansion of the packing element.

2,156,940
SOAP HOLDER
Charlotte Graham, New York, N. Y.
Application May 26, 1937, Serial No. 144,802
3 Claims. (Cl. 15—122)



2. In a receptacle, as set forth in claim 1, telescoping guide means provided for said handle-forming means in the receptacle material for preventing injury to the latter by said handle-forming means.

2,156,941
ROTARY BROACHING MACHINE
William A. Hart, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan
Application January 13, 1936, Serial No. 58,852
3 Claims. (Cl. 90—33)

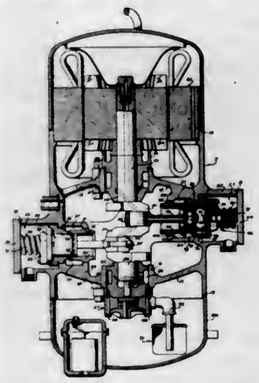


1. A broaching machine comprising a stationary base frame work, a broach rigidly mounted on said frame work, a vertically disposed shaft disposed substantially centrally of said frame work, a work carrying head secured to said shaft, radial slots disposed in said head, means in said slot adapted to engage an element to be operated upon and position the same with respect to said broach, and means for varying the vertical position of said shaft and work table to control the position of said work with respect to said broach.

2,156,942
EXPLOSIVE
George B. Hatch, Pittsburgh, Pa., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Delaware
No Drawing. Application March 4, 1937, Serial No. 128,984
12 Claims. (Cl. 52—2)

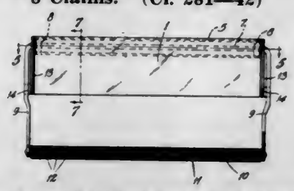
1. A primer comprising an active ingredient which is unstable in the presence of alkali and ground glass of substantially neutral reaction.

2,156,943
COMPRESSOR-UNLOADER STRUCTURE
Henry C. Heller, Collingdale, Pa., assignor to Baldwin-Southwark Corporation, a corporation of Delaware
Original application July 28, 1934, Serial No. 737,426. Divided and this application April 28, 1937, Serial No. 139,432
3 Claims. (Cl. 230—30)



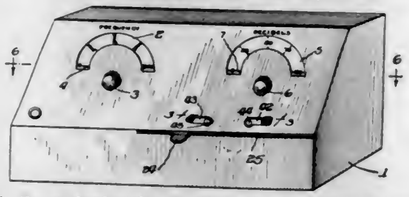
1. A motor-compressor unit of the crankshaft and piston-cylinder type, comprising a cast compressor frame having a wall extending axially of the crankshaft and encircling the same, bearing supporting means extending radially inwardly from said wall and having a bearing in which said crankshaft is journalled, a substantially radial cylinder in said wall, a recess in said wall extending from said cylinder to the outer surface of the wall, a piston insertable in said cylinder through said recess, an unloader valve operable by said piston and located outwardly of the outer end of said piston, a passage communicating with said valve to bypass the high pressure side of the compressor to the interior of said compressor frame a pressure responsive oil circulating pump for supplying fluid pressure to said bearing, and a passage in said bearing supporting means connecting said bearing with said unloader whereby pump fluid is transmitted from said bearing to the unloader to close the same automatically when the pump pressure reaches a predetermined value.

2,156,944
COMBINED LEAF HOLDER AND BOOKMARK
Otto L. Hermann, St. Louis, Mo., assignor to Buxton & Skinner Printing & Stationery Company, St. Louis, Mo.
Application January 26, 1938, Serial No. 186,973
8 Claims. (Cl. 281—42)



8. A combined leaf holder and bookmark comprising a body portion provided with a rectangular opening extending through the same from top to bottom for slidably receiving the cover of a book and provided at the top of its rear side with a housing and with end members affording stops, a bail having a cross-bar extending through and pivotally mounted in the ends of said housing and provided with downwardly-extending, parallel arms normally resting against said stops, a coil spring surrounding said cross-bar and secured at one end thereto and at its other end to the housing, and a roller mounted at the outer ends of said arms, for extending across the inside of the cover and to be yieldingly held in engagement with the same by said bail.

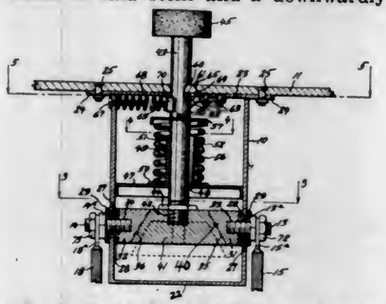
2,156,945
AUDIOMETER
Walter H. Huth and Joseph R. Cubert, Chicago, Ill., assignors to Aurex Corporation, Chicago, Ill., a corporation of Illinois
Application June 24, 1937, Serial No. 150,084
33 Claims. (Cl. 179—1)



1. In a device for testing the hearing, a manual frequency control dial, a manual decibel volume control dial, with an indicator for each dial, and devices operated by the frequency control dial for also controlling the decibel volume, without disturbing any desired adjustment of the decibel dial, in a manner compensating for any change in the frequency, operative thereby to maintain the indicated volume fixed for any given adjustment of said volume control dial, regardless of any change or different adjustment of the frequency control dial, so that only a single scale is necessary for the decibel dial.

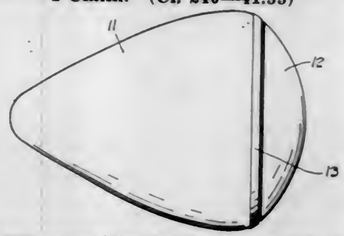
2,156,946
SAFETY SWITCH
Donald Lester Closson and Bruce H. Closson, Benton Harbor, Mich.
Application February 15, 1938, Serial No. 190,588
2 Claims. (Cl. 200—169)

1. In a safety switch, a casing having a vertically moving stem therein carrying at its lower end a contact element, a supporting partition and a tubular guide sleeve mounted thereon through which said stem extends for vertical movement therethrough, said guide sleeve having a rear vertical wall normally engaging said stem, side walls spaced apart a distance equal to the width of said stem and a downwardly and



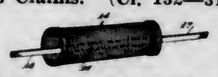
inwardly inclined front wall spaced from the adjacent side of said stem whereby the opening at the top of said guide sleeve is larger than the one at the bottom, said stem being adapted for a forward tilting movement in said guide sleeve.

2,156,947
AUTOMOBILE-TYPE LAMP
Roy W. Johnson, Wyoming, Ohio, assignor to The International Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application October 30, 1936, Serial No. 108,440
1 Claim. (Cl. 240—41.55)



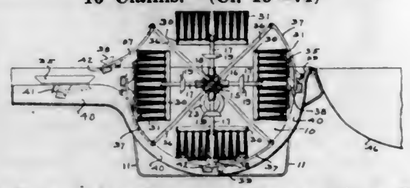
A lamp comprising a pigment-finished metal body having a distortable open end, a metal-finished band covering the body surface in a zone adjacent to the open end and cooperatively distortable therewith, the edge of the band being turned inwardly and embracing the edge of the body opening, a lens closing the body opening, and a flange extending from the periphery of the lens, of greater diameter than the lens and the opening therefor, and adapted to be brought to engage the inwardly turned portion of the band upon being passed through said opening when said body and band are distorted.

2,156,948
APPARATUS FOR CURLING HAIR
Stephen F. Kayn, New York, and Daniel D. Whyte, Brooklyn, N. Y.
Application October 26, 1937, Serial No. 171,005
3 Claims. (Cl. 132—31)



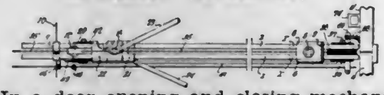
1. In a curl forming apparatus, a mandrel and a resilient sleeve mounted on the mandrel, means on said mandrel for clamping to the mandrel, the sleeve and free ends of hair to be wound on the sleeve flexible hair fastening means mounted interiorly of the sleeve, extending through the open ends thereof and having its free ends bendable in parallelism with said sleeve for locking the hair wound on the sleeve, said mandrel and clamping means being removable from said sleeve and said sleeve being self-supporting.

2,156,949
DISHWASHING MACHINE
John H. Klinger, Indianapolis, Ind.
Application December 4, 1936, Serial No. 114,142
16 Claims. (Cl. 15—74)



1. In a dishwashing machine, a tub, a dish rubbing member located in the tub, means located in the tub comprising a swinging arm and a vacuum cup carried by the arm for gripping and holding a dish in juxtaposition with said dish rubbing member, means comprising a rotatable arm to which the swinging arm is hinged for shifting said dish gripping means relative to said tub, means for shifting the rubbing member in fixed relation to the gripping means, a spindle carrying the dish rubbing member, a cone gear on the spindle and a rotating cone gear intermittently rotating the spindle cone gear by movement of the spindle past the rotating cone gear.

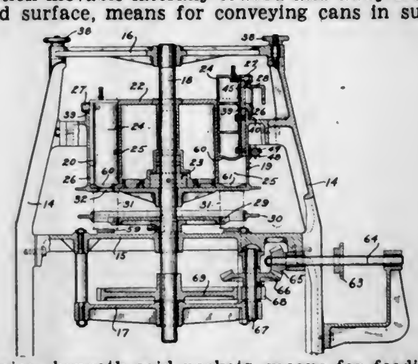
2,156,950
DOOR OPERATING MECHANISM
Fred Lichtfeldt, Wauwatosa, Wis.
Application July 12, 1937, Serial No. 153,094
18 Claims. (Cl. 268—35)



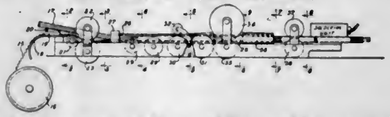
1. In a door opening and closing mechanism, a pair of doors, guiding means, a main carriage carried on said guiding means and operatively connected to said doors to open and close said doors as said carriage moves back and forth along said guiding means, an auxiliary carriage movable simultaneously with said main carriage, power means for moving said main carriage in one direction to open said doors, power means moving said auxiliary carriage in the reverse direction with a greater force than said first power means to close said doors, means normally connecting said main carriage and said auxiliary carriage, and means for detaching said main carriage from said auxiliary carriage.

2,156,951
CAN FILLING MACHINE
Henry Mondloch, Cedarburg, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a corporation of Wisconsin
Application September 28, 1937, Serial No. 166,136
9 Claims. (Cl. 226—97)

1. In a can filling machine, a fixed casing having a bore and a plane upper end surface, a member rotatable within said bore and having a series of measuring pockets therein, a plunger reciprocable in each of said pockets to introduce and discharge measured batches of material, a cam track cooperable with said surface to reciprocate said plungers, said cam track having a gate section movable laterally toward and away from said surface, means for conveying cans in succession, beneath said pockets, means for feeding cans to said conveying means, and a lever operable by the cans passing through said feeding means, said lever being cooperable with said movable cam section to move the latter away from said surface when no can engages the lever.



2,156,952
METHOD OF AND APPARATUS FOR MAKING CABLE
William Morsing, Irvington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 12, 1936, Serial No. 115,566
12 Claims. (Cl. 113—33)



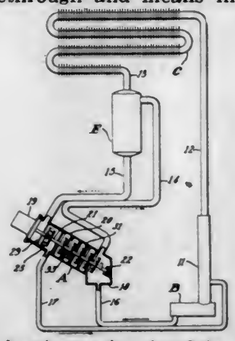
1. An apparatus for making cable comprising a core and a sheath thereon consisting of a transversely corrugated metal tape folded longitudinally about the core, the said apparatus comprising means to bend the transversely corrugated metal tape longitudinally into an arcuate form, means to bend the edge portions of the tape transversely while in that form, means to remove the longitudinal curvature, and means to fold the edge curled tape into a tube about a core.

2. A method of making cable comprising a core and a sheath thereon consisting of a transversely corrugated metal tape folded transversely about the core, the said method comprising the steps of first bending the transversely corrugated tape longitudinally into an arcuate form and while in that form bending the edge portions of the tape transversely, removing the curvature longitudinally of the tape, and folding the edge curved tape into a tube about a core.

2,156,953
ABSORPTION REFRIGERATING SYSTEM
Rudolph S. Nelson, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 18, 1935, Serial No. 45,528
30 Claims. (Cl. 62—119.5)

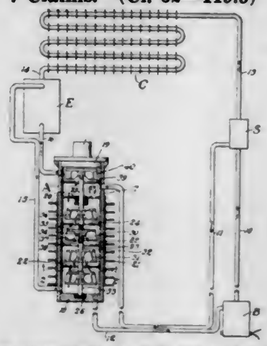
2. An absorber adapted for use in an absorption refrigerating system in which an inert gas

is employed as a pressure equalizing medium, said absorber consisting of a closed vessel, means in said vessel for conveying absorption liquid upwardly therethrough and means in said vessel



for causing inert gas to circulate downwardly therethrough, the arrangement being such that the gas and liquid are brought into intimate contact as a result of the upward movement of liquid against the downward movement of gas.

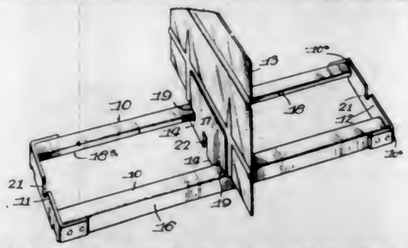
2,156,954
REFRIGERATION
Rudolph S. Nelson, Larchmont, N. Y., and Curtis C. Coons, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 26, 1937, Serial No. 155,786
7 Claims. (Cl. 62—119.5)



1. An absorber adapted for use in an absorption refrigerating system comprising a closed vessel, means for causing absorption liquid to flow through said vessel, gas conduits connected to said vessel and a double shrouded centrifugal fan within said vessel for causing gas to flow therethrough and for splashing the absorption liquid over the inner wall of said vessel to bring the gas and liquid into intimate contact and for aiding in the transfer of heat to the exterior of said vessel.

2,156,955
FILING DEVICE FOR USE IN VERTICAL FILING SYSTEMS
John H. Page, Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application February 5, 1937, Serial No. 124,245
6 Claims. (Cl. 129—16)

4. A filing device for insertion in a standard file drawer having a central depression extending lengthwise thereof, said filing device comprising a frame of the length and width of said central depression and including parallel rails, a plurality of partition plates mounted to slide on said rails, means locking each partition plate to said rails, but permitting limited rocking movement thereon, coil springs connected to the front end of

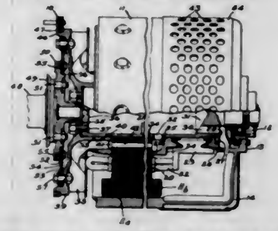


said frame, and said partition plates being severally connected to said springs in spaced relation with the partition plate farthest removed from the front end of said frame connected to the rear ends of said springs.

2,156,956
SYNTHETIC RUBBERLIKE COMPOSITIONS
Maynard C. Agens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application April 30, 1937, Serial No. 139,944
5 Claims. (Cl. 260—36)

1. A composition comprising a polyvinyl halide and an ester of acetylated ricinoleic acid.

2,156,957
POWER UNIT
John C. Aydelott, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application April 9, 1937, Serial No. 135,930
4 Claims. (Cl. 290—1)

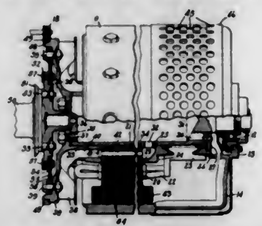


1. A power unit including a prime mover having a drive shaft, a generator provided with a stationary member secured at one end to said prime mover and a rotatable member, an armature head for said rotatable member, means including a flexible coupling for providing a driving connection between said prime mover drive shaft and said armature head and for supporting one end of said rotatable member, and means including a bearing for supporting the other end of said rotatable member on said generator stationary member.

2,156,958
DYNAMO-ELECTRIC MACHINE
John C. Aydelott, Erie, Pa., assignor to General Electric Company, a corporation of New York
Original application April 9, 1937, Serial No. 135,930. Divided and this application December 31, 1937, Serial No. 182,761
3 Claims. (Cl. 171—252)

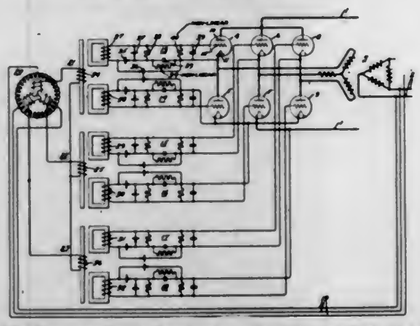
1. A dynamo-electric machine having a rotatable member, an annular member arranged to provide an armature head for said rotatable member, a radially extending fan formed on said

annular member, means including said annular member for supporting the end of said rotatable member adjacent said annular member and



for providing a driving connection with said dynamo-electric machine through said fan, and other means for supporting the other end of said rotatable member.

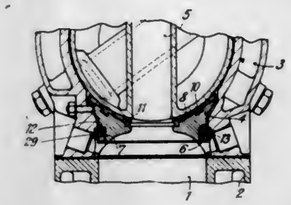
2,156,959
ELECTRIC VALVE CIRCUITS
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 3, 1936, Serial No. 88,826
15 Claims. (Cl. 175—363)



10. In combination, an electric valve means having a control member, two sources of alternating potentials, the potentials of said sources being substantially 180 electrical degrees out of phase, a control circuit connected to one of said sources for energizing said control member comprising a capacitance connected in said control circuit in series relation with said control member and arranged to be charged during positive half cycles of potential of said one of said sources for impressing on said control member a negative biasing potential, and means for maintaining said negative biasing potential within a predetermined range of values comprising a resistance having a non-linear impedance-current characteristic connected across said capacitance and a unidirectional conducting device associated with the other of said sources for charging said capacitance during positive half cycles of potential of said other of said sources.

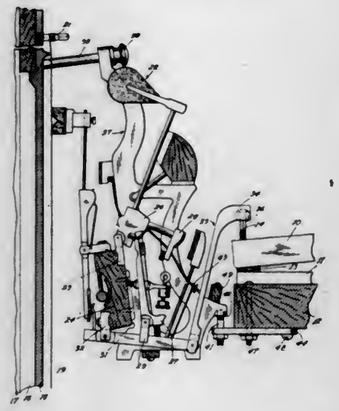
2,156,960
SEAL FOR ROTARY VALVES OF INTERNAL COMBUSTION ENGINES
Alfred Baer, Berlin-Schmargendorf, Germany
Application April 16, 1938, Serial No. 202,544
In Germany November 2, 1935
6 Claims. (Cl. 123—190)

1. In a seal for rotary valves of internal combustion engines, a cylinder, a rotary valve allotted to the cylinder, a divided sealing member arranged intermediate the valve and the cylinder, a pair of bearing strips in the sealing member which engage the valve, a frame between the



bearing strips, and a body in the sealing member which faces the cylinder and supports the strips and the frame; the bearing strips, the frame, and the body being arranged with clearances at their points of connection.

2,156,961
PIANO ACTION
William G. Betz, Bronx, N. Y.
Application July 28, 1936, Serial No. 93,040
8 Claims. (Cl. 84—240)

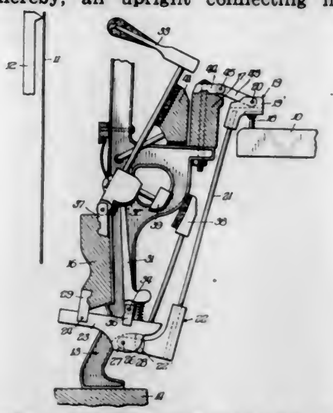


1. In an upright piano including the usual keyboard and key bed therefor, and an upright sounding board on the back of said piano, an action for said piano, and means for mounting said action, said means including a mounting bolt extending forwardly from the sounding board, a mounting plate supported on said key bed, extending rearwardly therefrom, and a bracket for said action supported from said mounting bolt and said mounting plate.

2,156,962
PIANO ACTION
William G. Betz, Bronx, N. Y.
Application April 24, 1937, Serial No. 138,823
12 Claims. (Cl. 84—240)

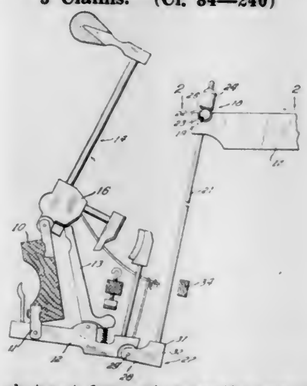
1. A piano action for each key of a piano, said action including a pivoted whip, a fly pivoted therefrom, a hammer adapted to be actuated by movement of the fly, and means for transmitting the motion of a piano key to the hammer including a three-member abstract having a head

member with a portion rearwardly of the rear end of the key and with a rigid forward extension thereon overhanging the key for direct attack thereby, an upright connecting member



rearwardly of the rear end of the key and extending downwardly from the head member to a pivot member supporting said connecting number and having a rigid rearward extension for pivotal connection to said whip.

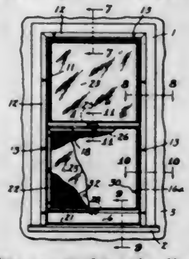
2,156,963
PIANO ACTION
William G. Betz, La Porte, Ind.
Original application July 28, 1936, Serial No. 93,040. Divided and this application December 21, 1938, Serial No. 247,067
3 Claims. (Cl. 84—240)



1. An abstract for a piano action comprising a head, a rigid substantially L-shaped pivot member including a pivot portion and a mounting portion with the latter extending upwardly from one end of the pivot portion and having a cavity therein for receiving a connecting member, a connecting member secured in the cavity and extending from the mounting portion of said pivot member to said head and secured in the latter to connect said head and said pivot member together into a single unit.

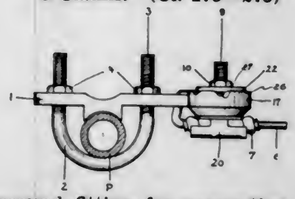
2,156,964
INSULATING SASH
Oscar H. Biddle, Solon, Ohio
Application August 19, 1936, Serial No. 96,716
6 Claims. (Cl. 20—55)

1. An insulating sash, comprising a sheet metal sash frame, a sheet metal outwardly extending attaching portion of said sash frame, a T-portion forming a part of said sash frame, a panel making sliding engagement with said sash frame, a panel frame forming a part of said panel, an L-shaped stop strip spaced from said T-portion and forming a panel receiving groove therebetween, a hand lever mounted on said panel frame for inter-engaging said panel frame with said panel and adjusting the elevation of said panel



in said sash frame, and an inclined face portion forming a part of said hand lever for gripping said stop strip in increasing frictional compression and securing said panel at a desired elevation and said sash frame, sash frame attaching portion, panel, panel frame, stop strip, hand lever, and hand lever inclined face portion, together forming a wind and storm barrier of adjustable effectiveness.

2,156,965
GROUND FITTING
Stephen W. Borden, Summit, N. J.
Application September 13, 1937, Serial No. 163,607
3 Claims. (Cl. 173—273)



1. A ground fitting for connecting a ground wire and its protective covering to a water pipe which includes a body member provided with means for attaching the pipe thereto and with means for attaching the covering thereto said latter means including a bolt having a transverse opening for the reception of the covering and a nut on the bolt and positioned on the opposite side of the body for drawing the covering against the body and means on the fitting for attaching the wire thereto.

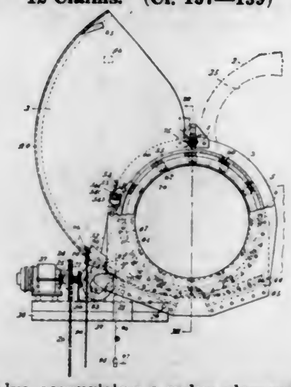
2,156,966
BELT HOOK HOLDER AND METHOD OF MOUNTING HOOKS THEREON
Albright Bray, River Forest, Ill., assignor to Armstrong-Bray & Co., Chicago, Ill., a corporation of Illinois
Application November 16, 1936, Serial No. 111,042
8 Claims. (Cl. 1—56)



1. A belt lacing hook holder and hook assembly comprising, in combination, an elongated strip of flexible material having longitudinally

folded side walls, a plurality of closely spaced parallel upright hooks having prongs projecting inwardly through said walls, a plurality of projections on the free longitudinal edge of one of said walls extending between the arms of said hooks, and a coating of paraffin covering said hooks and the adjacent portions of said walls.

2,156,967
VALVE
Edgar E. Brosius, Pittsburgh, Pa.
Application July 23, 1937, Serial No. 155,242
12 Claims. (Cl. 137—139)



1. A valve comprising a valve element adapted to be moved to open and closed positions, stops for arresting the movement of the valve element at the completions of its opening and closing movements, sealing means adapted to be applied to the valve element in both its open and closed positions and to be released from the valve element during its opening and closing movements, means for operating the valve element and its sealing means comprising a differential and means for driving the differential, the differential having two driven elements each of which may be driven by the differential when the other element is locked against movement, connections between the first driven element and the valve element for moving the valve element to open and closed positions, and connections between the second driven element and the sealing means for applying the sealing means to and releasing it from the valve element, the parts being so constructed and arranged that, when the valve is in either normal open or closed position and the differential is driven, the sealing means is first released from the valve element by the movement of the second driven element, then the valve element which is thus released is moved to its other position by the first driven element until its movement is arrested by one of its stops, whereupon the sealing means is again applied to the valve element by the second driven element.

7. A valve comprising a valve plate, a seat supporting frame at one side of the plate having a slot therein, a valve seat in the slot movable toward and away from the plate, spring means for exerting pressure against said seat to urge it toward the valve plate, and means for applying and relieving the pressure on said spring means.

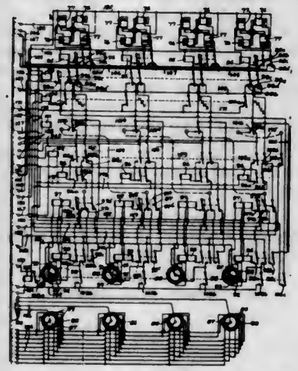
2,156,968
METER FOR HEAT CONSUMPTION
Oscar Constantin Brun, Copenhagen, Denmark
Application July 23, 1936, Serial No. 92,257
In Denmark January 3, 1934
12 Claims. (Cl. 73—193)

1. A meter for heat consumption of the vaporiser type, comprising an open glass container adapted to contain a measuring liquid which will evaporate on heating, the capillary grooves in the inner surface of which glass container, result-



ing from its production, have been removed from portions of the container walls other than those portions connected to adjacent portions by fusing; and a scale for readily reading the level of the said measuring liquid.

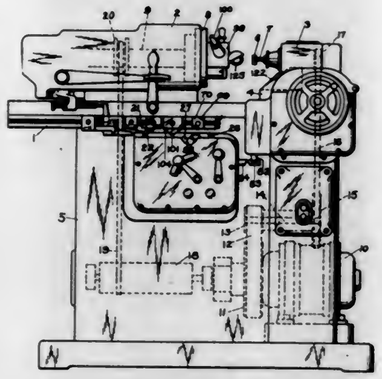
2,156,969
TABULATING MACHINE
James W. Bryce, Bloomfield, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 25, 1933, Serial No. 695,091
16 Claims. (Cl. 235—61.8)



1. In an accounting machine controlled by perforated cards, a rotatable accumulating element responsive to alternately established magnetic fields which are angularly related, means for separately establishing a pair of magnetic fields across said element and angularly disposed with respect to each other, record sensing means and means controlled thereby for causing said first named means to establish said fields in alternate succession whereby said element will be advanced by increments.

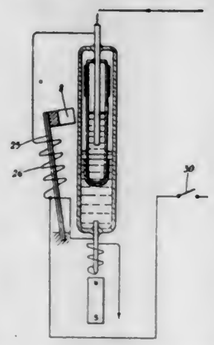
14. In a machine of the class described, an accumulating unit comprising a rotor responsive to alternately established magnetic fields and a pair of electromagnets, means for alternately energizing said electromagnets to cause said rotor to advance one step for each energization, a circuit normally effective to maintain one of said magnets constantly energized to hold the rotor in position, a key and means controlled by said key for breaking said circuit and for causing said alternately energizing means to become effective.

2,156,970
GRINDING MACHINE
Alfred P. Burns, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application July 3, 1937, Serial No. 151,885
18 Claims. (Cl. 51—95)



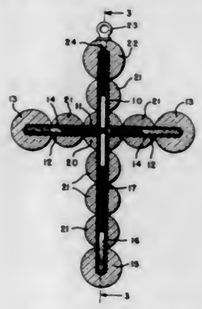
1. In a grinding machine, a grinding member, a work-supporting member, a reciprocatory table on which one of said members is mounted for procuring a relative movement therebetween, reversing means for said table, control means for procuring a change in the grinding operation, actuating means for said control means automatically operative at a predetermined point in the grinding operation and independently of the position of the table, and cooperating means between said actuating means and said reversing means for procuring actuation of said control means by said actuating means only at one end of the table movement.

2,156,971
MERCURY SWITCH
Alfredo Cianchi, London, England
Application May 24, 1938, Serial No. 209,843
In Great Britain April 2, 1937
13 Claims. (Cl. 200—87)



1. An electric switch comprising a vessel, at least one movable part enclosed in said vessel, electrodes passing into said vessel and sealed in its wall, at least one of said electrodes being of magnetic material, means for acting magnetically on said part to move it to operate the switch, means for magnetising said last-mentioned electrode, said electrode being so disposed that said part moves to within range of the magnetised electrode so as to be retained by its magnetic attraction to hold said switch in one condition, and means for de-magnetising said electrode so as to release said part.

2,156,972
JEWELRY
Andrew R. Coté, Brooklyn, N. Y.
Application September 3, 1938, Serial No. 228,303
5 Claims. (Cl. 63—20)



1. A piece of jewelry having a rigid mounting and a plurality of intermediate bead-like jewels strung thereon, in combination with terminal bead-like jewel means at each end of said mounting in alignment therewith for holding said intermediate jewels against longitudinal movement along said mounting, said jewel means comprising means engaging said mounting for securing the same at the end thereof.

2,156,973
EXTENSION DEVICE
Willard A. Davis, Edgewood, R. I., assignor, by mesne assignments, to Gemex Company, a corporation of New Jersey
Application January 30, 1935, Serial No. 4,099
8 Claims. (Cl. 24—71)

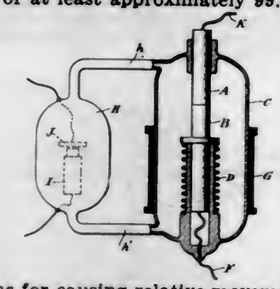


1. In an extension device, a member, a second member slidably connected thereto, cooperating length adjusting elements on said members, a third member hingedly connected to one of said other members and adapted to fold in contracted relation thereto, cooperating snap elements on said third member and one of said other members for releasably retaining said third member in contracted relation thereto, and manually movable means for releasing said snap elements and simultaneously moving one of said cooperating length adjusting elements to disengage the same.

2,156,974
METHOD OF AND APPARATUS FOR NON-ARCING CIRCUIT INTERRUPTION
Gilbert E. Doan, Bethlehem, Pa.
Application June 12, 1935, Serial No. 26,128
8 Claims. (Cl. 200—144)

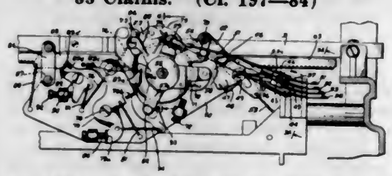
1. A substantially non-arcing circuit breaker comprising a pair of iron electrodes, means for

maintaining said electrodes in an atmosphere of argon of at least approximately 99.3% purity,



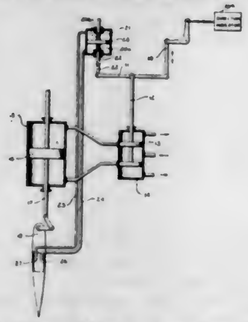
and means for causing relative movement of said electrodes to bring them into and out of contact.

2,156,975
TYPEWRITING MACHINE
Ronald D. Dodge, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 8, 1937, Serial No. 135,639
33 Claims. (Cl. 197—84)



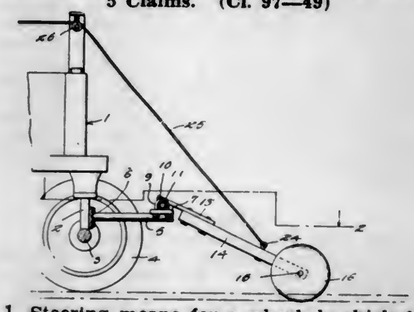
7. In feed mechanism for typewriters, a feed ratchet, a feed pawl engageable with said ratchet, means to variably move the pawl in one direction and presettable means controlled by the first-named means for variably selectively controlling the extent of the restoring movement of the pawl.

2,156,976
CONTROL APPARATUS FOR VEHICLES
Eduard Fischel, Berlin-Charlottenburg, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application December 7, 1937, Serial No. 178,592
In Germany November 21, 1936
2 Claims. (Cl. 244—75)



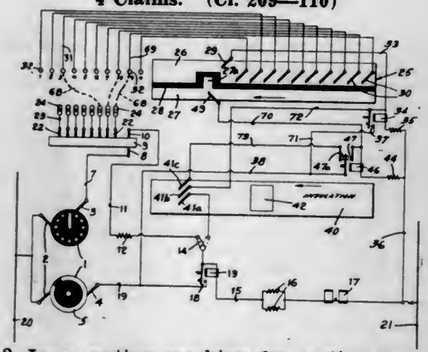
2. In apparatus of the class described, direction indicating means, a main control surface, a servo-motor for said surface, an auxiliary control surface associated with said main surface, resilient means for retaining said auxiliary surface in a predetermined position relative to said main surface, and means for controlling said servo-motor in accordance with the displacement of said auxiliary surface from said predetermined position.

2,156,977
AUTOMATIC STEERING MEANS FOR TRACTORS
Guy D. From, David City, Nebr.
Application March 27, 1937, Serial No. 133,430
5 Claims. (Cl. 97—49)



1. Steering means for a wheeled vehicle having a vertical steering post, comprising a rigid bar secured at one end to the post to extend therefrom forwardly with respect to the vehicle, a plate secured across the forward end of said bar, a sleeve secured to said plate and disposed transversely of the bar, a hinge axle oscillatably mounted in said sleeve, a bar secured at one end to said hinge axle, and a ground furrow engaging wheel rotatably secured to the other end of said bar said axle permitting vertical oscillation of the bar.

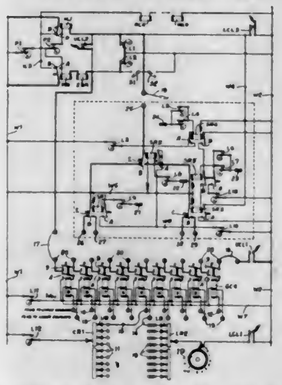
2,156,978
SORTING MACHINE
Ioyno Ghertzmann, Saint Mande, France, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 30, 1936, Serial No. 118,204
In France January 30, 1936
4 Claims. (Cl. 209—110)



2. In a sorting machine for sorting records having indicia thereon, analyzing means including a plurality of brushes, a multiple column selector device comprising a plurality of commutators each having a plurality of brushes, one of said commutators being formed with a plurality of conductor rings and another of said commutators having a single conducting segment, manipulative means for selectively connecting any of the plurality of brushes of said

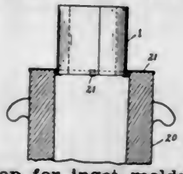
analyzing means to any of the plurality of brushes of first-named commutator to make a setting for sorting out records having certain indicia, a sorting mechanism, a plurality of circuits inter-connecting said sorting mechanism and said second-named commutator with said first-named commutator, and means included in said plurality of circuits comprising a plurality of selector relays, one of which is operated under control of one of the conductor rings on the first-named commutator in conjunction with the connected brushes of the first-named commutator and another of which is operated under conjoint control of said connected brushes and another conductor ring, whereby it is determined if the plurality of brushes and the single conducting segment of the second-named commutator shall be rendered effective to control the sorting mechanism to sort out records having indicia corresponding with the setting of said manipulative means.

2,156,979
RECORD CONTROLLED MACHINE
Alvin E. Gray, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 9, 1934, Serial No. 724,679
2 Claims. (Cl. 235—61.7)



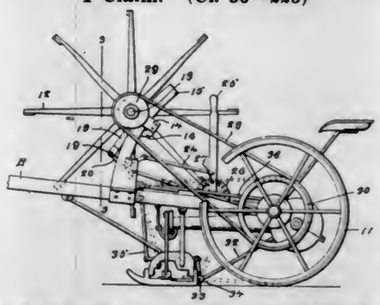
1. In a machine of the class described, means for concurrently sensing group classification designations in a plurality of columns of a pair of record cards, a series of settable group control elements, one for each of said plurality of columns, means controlled by said sensing means for effecting a setting of each element whose related column contains the same designation on both cards, a machine operation controlling member, means normally connecting said member with said series of elements for control thereby in accordance with their composite setting, further sensing means, acting concurrently with said first named sensing means, for sensing a further column of one of said pair of cards for further classification designations, means controlled thereby, upon sensing a predetermined designation for disconnecting said normal connecting means and effecting connection between said member and a series of said elements comprising a lesser number of elements, whereby said member will be controlled in accordance with the composite setting of said lesser number and further means controlled by said further sensing means upon sensing a different predetermined classification designation for disconnecting said normal connecting means, preventing connection of said lesser number of elements and effecting connection between said member and a series of said elements comprising a still lesser number of elements whereby said member will be controlled in accordance with the composite setting of said still lesser number.

2,156,980
HOT TOP
Holmes B. Groninger, Port Royal, Pa.
Application April 23, 1938, Serial No. 203,906
2 Claims. (Cl. 22—147)



1. A hot top for ingot molds consisting in a rigid tubular body of coiled fibrous sheet material that in service endures the stresses of the poured-in mass of molten metal, that affords heat insulation during solidification of the metal, and that is readily removable from the solidfied ingot.

2,156,981
MOWING MACHINE ATTACHMENT
Elzy Henderson Gunter, Wagener, S. C.
Application July 14, 1937, Serial No. 153,637
1 Claim. (Cl. 56—225)

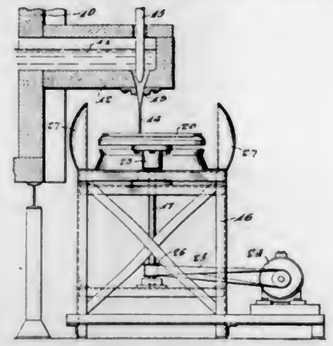


An attachment for a mowing machine comprising a bat reel having a turning arbor, a stationary support, a pair of arcuate shaped arms rising from said support with the curvature thereof corresponding to an arc struck using an axle of the machine as a center thereof, runners adjustably fitted on said arms and carrying the arbor offset relative to said arms, yokes on the runners, a throw lever, connections including bell cranks and linkage between the throw lever and said yokes for the simultaneous shifting of the runners on the said arcuate shaped arms, and an actuating belt operating the reel.

2,156,982
METHOD FOR SPINNING GLASS
Charles G. Harford, Wollaston, Mass., and Earl Stafford, Philadelphia, Pa., assignors to Arthur D. Little, Inc., a corporation of Massachusetts
Application March 9, 1934, Serial No. 714,776
Renewed May 12, 1938
9 Claims. (Cl. 83—91)

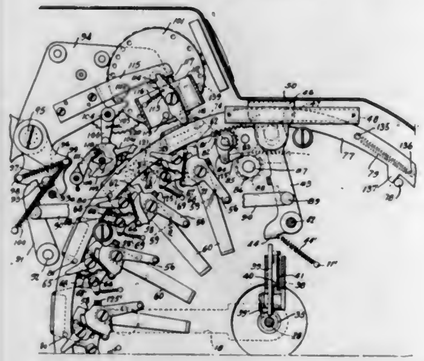
1. The method which comprises continually projecting from a supply body of molten material, an integral stream of said material in viscous

condition, contacting said stream at a point remote from the supply body with a surface rotating at a high velocity about an axis, and continuously attenuating said stream to a fine filament



after contact with said surface and throwing it continuously from said surface by the force applied thereto through contact with said surface, while maintaining the continuity of said supply body, stream and filament.

2,156,983
TIME RECORDER
Laurence S. Harrison, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 12, 1935, Serial No. 54,036
10 Claims. (Cl. 234—46)



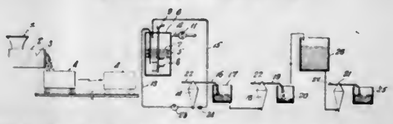
1. A printing device including a printing head normally in inoperative condition, a plurality of individual spaced apart platens over which a single sheet is disposed for receiving printed data, a shutter normally covering a portion of said sheet, means for moving a selected platen adjacent said shutter, means for moving said shutter relative to said sheet to expose to view a selected portion of the sheet disposed on said selected platen, means controlled by said last named means for placing the printing head in condition to effect printing and means for automatically operating the printing head upon moving the platen over which said selected portion of said sheet is disposed from the aforesaid position adjacent the shutter to a position adjacent the printing head.

2,156,984
FOLDING UMBRELLA
Hans Haupt, Berlin, Germany
Application October 2, 1937, Serial No. 166,915
In Germany October 5, 1936
15 Claims. (Cl. 135—26)



1. A folding umbrella comprising telescoping stick and rib members, main braces connected with said rib members, a main runner slidable on said stick members and having said main braces jointed thereto, an auxiliary runner slidable on said stick, subsidiary braces connected respectively with said main braces and said auxiliary runner, and a braking device located in position for exerting braking action on said auxiliary runner substantially at the beginning of the movement of the frame composed of said rib members, braces and runners from the closed position into the open position.

2,156,985
METHOD OF TREATING FISH LIVERS
Herbert Hempel, Essex, Mass., assignor to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass., a corporation of Massachusetts
Application March 11, 1937, Serial No. 130,321
15 Claims. (Cl. 87—6)

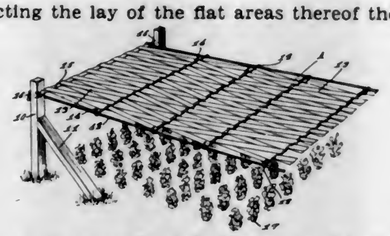


1. Method of treating fish livers, for the separation and recovery of oil therefrom, comprising the steps of subjecting the same to the action of an aqueous alkaline buffer solution, characterized by impressing and maintaining thereon a pH value from 8.5 to 12.5, to effect dissolution of the solid substance of the livers, substantially without saponifying the oil content, and thereafter separating the liberated oil from the aqueous fraction.

2,156,986
HORTICULTURE SHADING DEVICE
Hans H. A. Heuer, Rochester, Mich.
Application August 2, 1937, Serial No. 157,060
3 Claims. (Cl. 47—28)

1. A device of the character described comprising a roof formed with a plurality of spaced transversely disposed rods, and flat strips of freely flexible material wrapped about and extended between the rods in a zigzag fashion for

effecting the lay of the flat areas thereof there-



between in approximately the same plane with each other.

2,156,987

WRAPPER FOR FOODSTUFFS

Thomas Morley Hill, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 29, 1932, Serial No. 635,402
10 Claims. (Cl. 91—68)

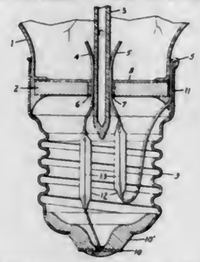
1. As a wrapper for foodstuffs which contain aluminum-corroding ingredients, aluminum foil provided with a coating rendering said aluminum foil resistant to said aluminum-corroding ingredients in the foodstuffs, said coating consisting principally of a polymerized vinyl ester and containing a plasticizer.

2,156,988

ELECTRIC LAMP AND SIMILAR DEVICE

Hans Jancke, Berlin, and Martin Reger, Berlin-Charlottenburg, Germany, assignors to General Electric Company, a corporation of New York

Application February 4, 1938, Serial No. 188,744
In Germany February 9, 1937
3 Claims. (Cl. 176—38)



1. In an electric device, an envelope having an electric energy translation element sealed therein, a sealing member united to the end of said envelope and hermetically sealing the same, and current supply leads extending through said sealing member and connected to said energy translation element, said sealing member comprising a porous sintered body of a ceramic material provided with a layer of a readily fusible glass over its entire internal surface, said layer of glass hermetically sealing said porous body and forming a hermetic seal between the said envelope and the sealing member.

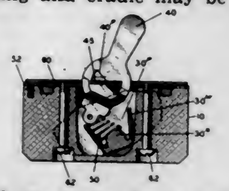
2,156,989

ELECTRIC TUMBLER SWITCH

George A. Johnson, Trumbull, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut

Application February 3, 1936, Serial No. 62,175
13 Claims. (Cl. 200—67)

4. In a snap switch, an insulating casing, fixed contacts adjacent a side wall of said casing, a one-piece insulating cradle having trunnions supported in the side walls of said casing, a resilient bridging contact mounted on said cradle, said cradle having a side wall parallel to and spaced narrowly from the side wall of said casing, said side wall of the cradle being recessed for the accommodation of the ends of said bridging contact while said bridging contact is engaged with said fixed contacts, whereby the adjacent faces of said casing and cradle may be more closely



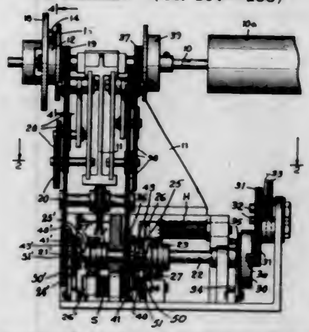
spaced and may exercise a substantial arc quenching effect, in combination with mechanism for moving said bridging contact with a snap action, and an apertured hand lever for operating said snap mechanism, a bar passing through said aperture, a plate and means to secure said plate on said casing with the ends of said bar between the plate and the casing whereby said bar forms a fixed pivot for said lever.

2,156,990

PAPER SPACING MECHANISM FOR PRINTING MACHINES

Harold Hall Keen, Letchworth, England, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 4, 1935, Serial No. 43,537
In Great Britain October 30, 1934
5 Claims. (Cl. 197—133)



1. In a record card controlled machine, a sheet feeding mechanism, a cyclically operated head-spacing driving mechanism for operating said sheet feeding mechanism to a constant extent in a single cycle, a clutch for engaging said sheet feeding mechanism with said driving mechanism, a card analyzing mechanism and electromagnetic means controlled by said card analyzing mechanism for causing said clutch to engage said sheet feeding mechanism with said driving mechanism for a single cycle whereby said sheet feeding mechanism will be operated to a constant extent.

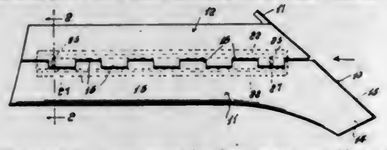
2,156,991

ADJUSTABLE PLOWSHARE

Philip B. Kremer, Huntingtown, Md.

Application November 17, 1937, Serial No. 175,119
7 Claims. (Cl. 97—125)

1. A device of the class described comprising a plowshare formed of sections pivotally connected lengthwise, and means to adjust the lower



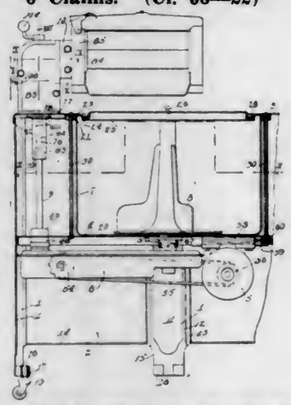
part thereof to compensate for wear on the plow point.

2,156,992

WASHING MACHINE

Leland G. Knapp, Chicago, Ill.

Application October 7, 1935, Serial No. 43,836
6 Claims. (Cl. 68—22)



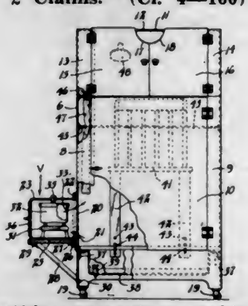
2. In a washing machine, cabinet side walls, means supporting said side walls, a horizontal supporting means extending across said walls and connected thereto, a sheet metal tub seated on said supporting means and having an outwardly extending margin at the top thereof, a sheet metal cover for said cabinet connected to the outwardly extending margin of the tub, and a series of spaced means extending upwardly within said side walls and outside of said tub for supporting said cover and the margin of the tub, said series of spaced means being mounted on and carried by said supporting means at annularly spaced points.

2,156,993

VAPOR BATH CABINET

Henry W. Knoche, St. Paul, Minn.

Application June 16, 1937, Serial No. 148,432
2 Claims. (Cl. 4—160)



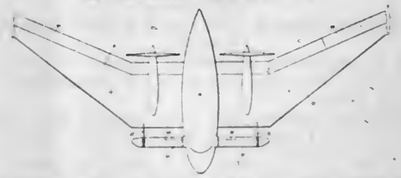
1. In a bathing apparatus, a cabinet having a side wall, said wall having a pair of spaced apertures positioned one over the other, a vaporizing and heating chamber secured to the outer side of said wall over said apertures and having communication therewith, the lower aperture in said side wall being adjacent and communicating with the lower portion of said vaporizing and heating chamber, and the upper side wall aperture lying adjacent and communicating with the upper portion of said chamber, and heating and vaporizing means in said chamber.

2,156,994

AIRCRAFT

Gustav Victor Lachmann, Canons Park, England, assignor to Handley Page Limited, Cricklewood, Middlesex, England

Application June 13, 1938, Serial No. 213,510
In Great Britain July 2, 1937
10 Claims. (Cl. 244—75)



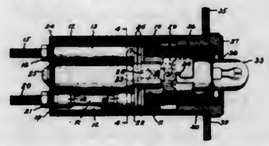
1. In a tailless aircraft, the combination with a longitudinally stable main wing of an auxiliary aerofoil located in front of said wing and pivoted at a point in front of its means aerodynamic centre so as to be freely movable relatively to the main wing under the influence of the airflow about an axis extending parallel to its span, a trimmer tab attached to the auxiliary aerofoil, and means operable by the pilot of the aircraft for adjusting the setting of the trimmer tab relatively to the auxiliary aerofoil.

2,156,995

RECEPTACLE FOR SWITCHBOARD INDICATING LAMPS

Isaac R. Latta, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York

Application March 5, 1938, Serial No. 194,183
8 Claims. (Cl. 177—329)



1. In a lamp receptacle, a housing having a chamber extending axially thereof, said chamber being provided with opposed recesses at one end thereof, a lamp socket having contact elements disposed in said chamber, a terminal stud in one of said recesses connected to one of said contacts, a resistor element in the other of said recesses connected to the other of said contacts, and means to mount said housing on a panel, said means being provided with an opening in alignment with said chamber whereby a lamp may be inserted through said opening into engagement with said socket.

2,156,996

DETERGENT AND WETTING COMPOSITIONS

Wilfred S. Martin, Norwood, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

No Drawing. Application June 13, 1935, Serial No. 26,519
13 Claims. (Cl. 87—5)

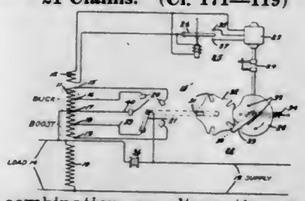
1. A wetting, sudsing and detergent agent com-

prising a mixture of a water soluble alkyl sulfate having eight to eighteen carbon atoms in the alkyl radical and a water-soluble salt of a true sulfonic acid corresponding to the general formula

$$R—CO—X—R_1—SO_2—OH$$

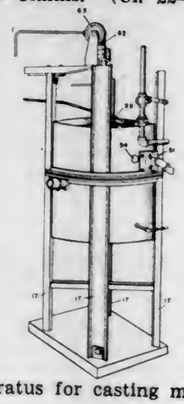
in which R denotes an aliphatic radical having eight to eighteen carbon atoms, and —X—R_1— denotes an oxyalkylene or an amino alkylene radical, the ratio of true sulfonate to alkyl sulfate being not greater than three to two but such that water solutions of said mixture are characterized by sudsing and detergent power greater than that predictable from the corresponding characteristics of the respective ingredients.

2,156,997
TRANSFORMER VOLTAGE REGULATING SYSTEM
Orin P. McCarty, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 20, 1936, Serial No. 69,789
21 Claims. (Cl. 171—119)



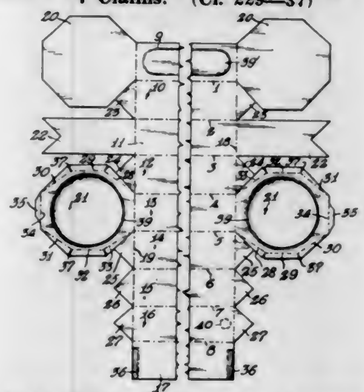
1. In combination, an alternating current circuit, a transformer including a winding having taps, a ratio changing switch having a transformer side connected to said taps and having a circuit side connected directly to said circuit independently of any part of said winding, and a load current bypass connected between the electrical midpoint of said winding and the circuit side of said switch, said bypass being connected and proportioned to carry the full load current of said winding during a positional change of said switch.

2,156,998
APPARATUS FOR FORMING COMPOSITE METAL ARTICLES
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application October 18, 1937, Serial No. 169,733
5 Claims. (Cl. 22—58)



1. In apparatus for casting metals, the combination with a mold having a cavity, of a crucible containing the metal adapted to be poured and having a valve controlled discharge port in the bottom wall thereof, a chamber positioned below the crucible and having an opening through the top wall closed by the bottom wall of the crucible, said chamber also having an opening in the bottom wall thereof, and a platform for supporting the mold movable from a position beneath the chamber to a position within said opening.

2,156,999
CARTON
James William McNeil, Tampa, Fla.
Application January 8, 1937, Serial No. 119,538
7 Claims. (Cl. 229—37)

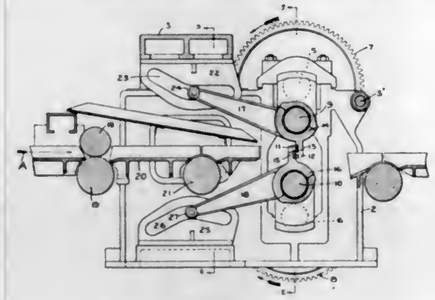


6. In a polygonal carton, a body portion forming a plurality of side panels, a polygonal flap attached to a side panel and forming an inner end closure, said flap being of a size somewhat larger than the cross-section of the carton and having notches cut in lateral corners to permit bending of the material of the flap as the closure is forced into the end of the carton and to cause the central portion of the flap to assume an inwardly arched position to hold the margins under tension in contact with the inner surface of the side panels, intermediate closure flaps formed upon the ends of the side panels of the carton and bent over the margins of the inner flap, and an outer closure flap formed upon the end of a side panel and adhesively secured upon the outer surfaces of the intermediate closure flaps.

2,157,000
SHEARING MECHANISM
Myles Morgan and John W. Sheperdson, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application October 14, 1937, Serial No. 168,963
14 Claims. (Cl. 164—43)

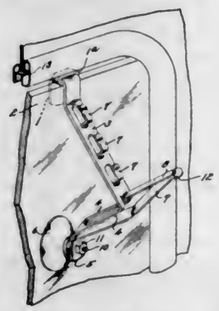
14. In mechanism of the class described for the shearing of moving stock, the combination with a pair of crank-carried blades adapted to be brought periodically into opposition by the rotation of their carrying cranks with one blade advanced beyond the other in the direction of stock travel, of a supporting member for each blade having a pivotal mounting on the associated crank and having a projection in fixed angular relation to the blade surface, and a fixed guiding means to constrain a part of each projection to a generally reciprocatory path, a portion of each said path being in a circular arc having a radius

substantially equal to that of the associated crank and so related to the crank motion as to effect a parallel motion of the associated member, the path associated with said advanced blade being shaped to produce, as the blades complete their



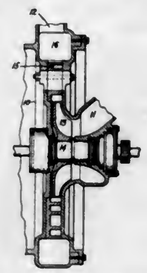
cutting opposition, a recession of the constrained part of the associated projection from the center of the circular arc portion of said path, thereby to accelerate said advanced blade in the direction of stock movement.

2,157,001
CLOTHES HANGER FOR AUTOMOBILES
Charles E. Morley, Detroit, Mich.
Application October 6, 1938, Serial No. 233,527
3 Claims. (Cl. 248—206)



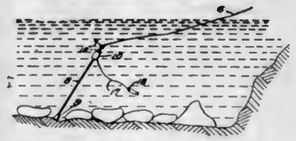
1. A hanger for use in an automobile having a movable glass window and a frame element therefor, comprising a strip of flat sheet metal bent at one end to form a hook element for engaging over the upper edge of the glass, a cushioning member positioned about the bottom of the hook element and engaging the glass edge on one side and the frame on the other when the glass is moved toward closed position, a body extending outwardly and downwardly at an angle to the glass and having a portion bent at substantially a right angle to the said body and extending toward the glass, and a terminal end portion substantially parallel with the glass surface a vacuum cup attached to the said last named portion, and a spring clip having a terminal portion secured to the last named portion of the body by the means provided for securing the cup thereto, said last named portion of the body having a hook element struck up therefrom and bent to substantially parallel relation with the said terminal portion and with which the terminal portion of the spring clip engages under spring tension.

2,157,002
DIFFUSER FOR CENTRIFUGAL COMPRESSORS
Sanford A. Moss, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application May 7, 1938, Serial No. 206,610
5 Claims. (Cl. 230—132)



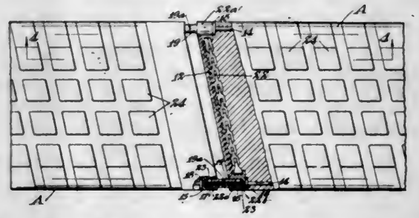
1. A diffuser for use in a centrifugal compressor to convert velocity energy of an impelled medium into pressure energy, such diffuser comprising a plurality of vanes non-uniformly spaced circumferentially and forming groups of different passages, the ratio of the sum of the passage inlet heights and the sum of the passage inlet arcs being substantially a constant for each group.

2,157,003
FISHING APPARATUS
Henry B. Mussina, Williamsport, Pa.
Application April 29, 1938, Serial No. 205,098
10 Claims. (Cl. 43—27)



1. Fishing apparatus comprising a line, a rod connected at one end to said line and having a weight at its other end, a float slidably mounted on said rod, a hook connected to said float, and a stop on said rod to limit the upward movement of the float on said rod.

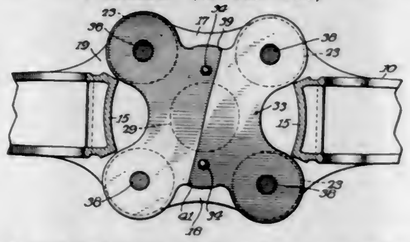
2,157,004
DETACHABLE TIRE TREAD
George R. Nelson, Sr., Almelund, Minn.
Application January 21, 1938, Serial No. 186,120
6 Claims. (Cl. 152—189)



1. A detachable tire tread, comprising a plurality of sections composed chiefly of rubber and adapted to overlie the tread surface of a tire casing, means interconnecting the ends of said sections, the ends of said sections being beaded,

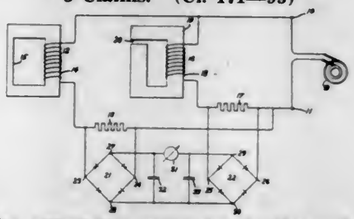
cross chains embedded in said beaded ends and means for anchoring the ends of said cross chains at the edges of said sections.

2,157,005
SHIM PLATE
Erik Gustaf Nylander, Chicago, Ill., assignor to Holland Company, a corporation of Illinois
Application May 3, 1937, Serial No. 140,445
7 Claims. (Cl. 105—197)



1. A metallic sectional shim for use on railway trucks comprising a plurality of seating sections, means on each section for interlocking said sections together, and means for connecting each section, against displacement, to both the conventional bolster and spring plate of a railway truck.

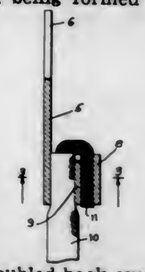
2,157,006
CURRENT AND VOLTAGE RESPONSIVE APPARATUS
Werner Oesinghaus, Berlin-Treptow, Germany, assignor to General Electric Company, a corporation of New York
Application December 18, 1937, Serial No. 180,667
In Germany January 7, 1937
3 Claims. (Cl. 171—95)



3. An apparatus responsive to the voltage of alternating current electrical circuits comprising a pair of terminals, a non-linear impedance connected in a circuit to said terminals, a linear impedance connected in a parallel circuit to said terminals, means for producing rectified voltages proportional to the currents in said circuits, and means responsive to difference in magnitude of said rectified voltages.

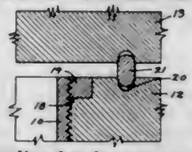
2,157,007
CONDUCTOR TERMINAL
Maximilian Offner, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 12, 1935, Serial No. 30,951
4 Claims. (Cl. 173—269)

1. In combination, a conductor and connector therefor, said connector comprising a body portion and means extending therefrom for connection with electrical apparatus, the said body portion comprising a single pair of wings of unequal length and diametrically opposite each other, the conductor being disposed longitudinally along the body portion of the connector, the shorter wing being formed around the conductor and in engagement therewith the end of the conductor being doubled back over the said shorter wing, the longer wing being formed about the end of



the conductor doubled back over the said shorter wing thereby engaging and holding the end of the conductor firmly in contact with the shorter wing.

2,157,008
PIPE COUPLING
Frank M. Owen, Oklahoma City, Okla.
Application June 7, 1937, Serial No. 146,753
2 Claims. (Cl. 285—154)



1. A pipe coupling having an interiorly threaded portion, a pipe threaded therein, a tubular portion forming a continuation of said threaded portion and adapted to surround said pipe in spaced relation thereto, a packing within the tubular portion and around the pipe beyond the threads thereof, means for compressing said packing into sealing engagement with the pipe, and a ring of soft metal carried by the coupling, said ring adapted to be exposed to fluid pressure from the pipe and to be deformed by said pressure into sealing engagement with the threads of the pipe adjacent its end.

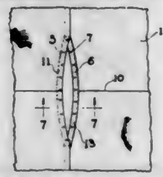
2,157,009
PHENYLMERCURIC ALIPHATIC HYDROXY CARBOXYLATES AND METHOD OF MAKING SAME
Ralph P. Perkins, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 31, 1933, Serial No. 683,017
12 Claims. (Cl. 260—13)

1. The method of making a phenylmercuric salt of a hydroxy-aliphatic polycarboxylic acid which comprises heating a phenylmercuric base with an aliphatic hydroxy-polycarboxylic acid to a reacting temperature in the presence of a substantially inert liquid.

2,157,010
PHENYLMERCURIC GLYCOLLATE AND A PROCESS OF MAKING IT
Ralph P. Perkins, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Original application July 31, 1933, Serial No. 683,017. Divided and this application January 31, 1936, Serial No. 61,751
5 Claims. (Cl. 260—434)

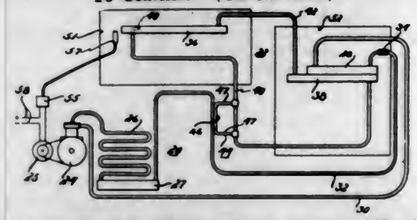
4. Phenylmercuric glycollate.

2,157,011
SNAP FASTENER TAPE
Paul A. Perry, Cleveland, Ohio
Application June 16, 1938, Serial No. 214,038
3 Claims. (Cl. 2—265)



1. The method of attaching to a curved placket opening a curved strip of snap fastener tape having a row of snap fastener elements secured thereto in spaced relation, which consists in first stitching the concave edge of the curved strip of tape along one edge of said opening, then folding over said curved strip of tape and the attached edge of the placket opening which is stitched thereto and then stitching the opposite edge of the strip of tape to the underlying material whereby to prevent excess fullness in the material adjacent the edge of the placket opening.

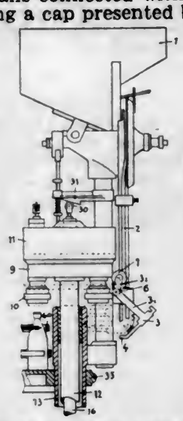
2,157,012
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application December 29, 1932, Serial No. 649,341
Renewed July 2, 1936
16 Claims. (Cl. 62—125)



1. A secondary refrigerating system of the type having substantially the same pressure throughout and in which refrigerant is evaporated and condensed simultaneously comprising in combination, an evaporator, a condenser below the evaporator, a conduit connecting the outlet of the evaporator with the inlet of the condenser, a conduit connecting the outlet of the condenser with the inlet of the evaporator, and a pump associated with the second mentioned conduit for lifting liquid refrigerant from the condenser to the evaporator.

2,157,013
BOTTLE SEALING APPARATUS
Erwin Pommer, Vienna, Austria
Application March 5, 1937, Serial No. 129,161
In Austria March 7, 1936
12 Claims. (Cl. 226—84)

1. A machine for sealing bottles, comprising a hopper adapted to be filled with bottle tear-off caps, a guiding chute connected with said hopper, a feeding lever having a portion receiving a cap falling from said hopper and through said chute, a revolving head, a plurality of sealing heads carried by said revolving head, means connected with said feeding lever for swinging the same in the direction of one of said sealing heads, means connected with said revolving head for intermittently rotating the same and for interrupting this rotation, means connected with said sealing heads for receiving a cap presented by said feed-

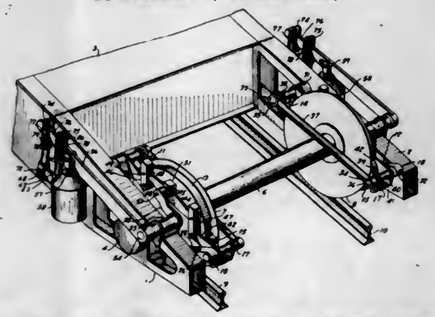


ing lever to one of said sealing heads, and means connected with said revolving head for actuating the same to cause another one of said sealing heads to engage a bottle fed into position underneath said revolving head and to seal said bottle.

2,157,014
TERTIARY AMYL ORTHO-CRESOL
George W. Raiziss and Le Roy W. Clemence, Philadelphia, Pa., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
No Drawing. Original application June 22, 1934, Serial No. 731,898. Divided and this application February 17, 1937, Serial No. 126,200
1 Claim. (Cl. 260—624)

A germicidal agent having high germicidal value combined with low toxicity in the presence of blood serum consisting of substantially pure tertiary-amyl-ortho-cresol, said agent having a boiling point of about 135°–137° C. at 10 mm. pressure and being completely soluble in dilute alkali.

2,157,015
BRAKE MECHANISM
Willard G. Ransom, Homewood, Kans.
Application February 14, 1938, Serial No. 190,439
15 Claims. (Cl. 188—181)



1. In combination with a wheel, a brake member frictionally engaging the wheel, means for applying a braking force to the brake member, and means constantly reacting on the brake applying means and dependent upon the coefficient

of friction for causing an increase of the direct pressure of the brake member against the wheel as the coefficient of friction decreases and for causing a decrease of the direct pressure of the brake member against the wheel as the coefficient of friction increases.

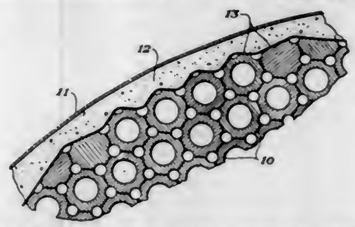
2,157,016
WINDOW LATCH
Samuel C. Reynaud, St. Clair Shores, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application January 11, 1937, Serial No. 120,057
2 Claims. (Cl. 292—203)



1. In a window construction having a frame and having a ventilator supported in the frame with one side edge hingedly connected to the adjacent side edge of the frame, means for latching the ventilator in its closed position in the window frame including a latch member pivotally supported on the swinging edge of the ventilator adjacent one end of said edge and having a portion engageable with a shoulder on the frame to secure the ventilator to said frame, an actuating member pivotally connected to the swinging edge of the ventilator adjacent the opposite end of the same, a connecting bar between the members having one end connected to the latch member at a point offset inwardly from the pivotal connection of the latch member with the frame and having the opposite end pivotally connected to the actuating member at a point offset in an outward direction from the pivotal connection of said actuating member with the frame, means on the actuating member and frame cooperating with each other when the ventilator is moved to its closed position to slide the connecting bar in a direction to swing the latch member into engagement with the shoulder on the frame, and additional means on the actuating member adapted to abut a flat surface on the window frame in the closed position of the ventilator to maintain the latch member in engagement with said shoulder.

2,157,017
BLAST FURNACE STOVE
Owen R. Rice, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application August 17, 1938, Serial No. 225,380
3 Claims. (Cl. 263—19)

1. In a blast furnace stove, in combination, a checker construction, a shell wall encircling said checker construction, and a molded insulating wall in contact with the interior surface of said

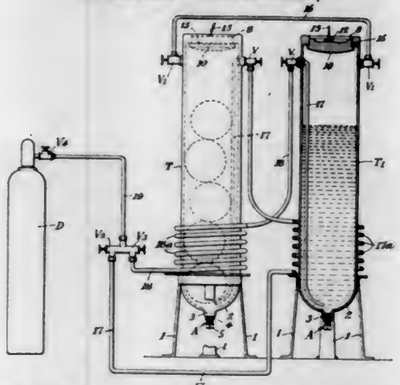


shell wall but spaced peripherally from said checker construction.

2,157,018
PRODUCTION OF PLASTIC COMPOSITIONS
Albert George Rodwell, London, England, assignor to Sydney Harrison Colton, London, England
No Drawing. Application October 5, 1937, Serial No. 167,471. In Great Britain September 3, 1936
2 Claims. (Cl. 106—23)

1. In the production of a plastic composition, the method which comprises mixing 15 parts by weight of white cement with approximately 5 parts of water, rendering the resultant mixture homogeneous, incorporating in said mixture approximately 5 pounds of concentrated rubber latex containing vulcanizing ingredients and before setting of the mixture adding fibrous filler material, and permitting the resultant admixture to set.

2,157,019
SYSTEM FOR CHARGING CARBON DIOXIDE
Harry B. Rudd, Flushing, N. Y.
Application June 27, 1933, Serial No. 677,792
Renewed October 30, 1935
14 Claims. (Cl. 62—91.5)



11. A method for charging a container with liquid carbon dioxide, which comprises passing liquid carbon dioxide at high pressure from one converter into heat exchange relationship with solid carbon dioxide contained in another freshly filled converter, and then into said container.

2,157,020
DETACHABLE SUPPORT
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application July 23, 1937, Serial No. 155,173
5 Claims. (Cl. 211—123)

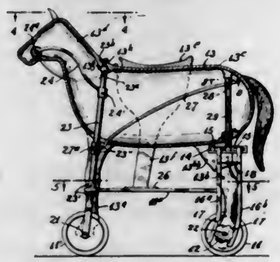
1. A support for detachable engagement with

the depending skirt of a fixture for bathrooms and the like comprising a pair of brackets, a bar secured to and between said brackets for supporting a washcloth or the like, each of said brackets comprising a front plate at least a portion of which is adapted to engage the outer face



of the depending skirt of the fixture, a rear plate extending adjacent to and having a sharp projecting portion thereof adapted to frictionally engage the inner face of said depending skirt, and a flexible connection between the front and rear plates adapted to extend below said depending skirt.

2,157,021
MECHANICAL TOY
Herman Schmarion, New York, N. Y.
Application February 15, 1937, Serial No. 125,734
3 Claims. (Cl. 74—135)

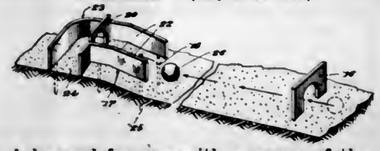


1. In a device of the class described, a body, a reciprocative member pivotally supported on said body, a drive axle rotatively mounted on said body, a track mounted on said member to move towards and away from said axle as said member reciprocates, a ratchet wheel securely mounted on said axle, a pair of parallel arms movably mounted on said track so as to remain parallel to each other, ratchet teeth formed on said arms and engageable with opposite sides of said ratchet wheel to cause it to turn in one direction, said arms having their bottom ends curved with the concaved sides directed towards the pivot point of said member, and means for maintaining said arms in their parallel position with relation to each other at all times.

2,157,022
SUPERFATTED SOAP
Walther Schrauth, Berlin-Dahlem, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application April 10, 1934, Serial No. 719,855. In Germany April 15, 1933
6 Claims. (Cl. 87—5)

2. A toilet soap having incorporated therein a super-fatting agent consisting of an ether of glycerin and alcohol of the kind obtained from the natural fats and waxes and having at least 8 carbon atoms in the molecule.

2,157,023
GAME
Charles D. Shannon, Florence, Northampton, Mass.
Application October 16, 1936, Serial No. 106,029
2 Claims. (Cl. 273—32)



1. A hazard for use with a game of the character described comprising inner and outer side walls having depending anchoring means for mounting the walls upon a playing surface in transverse spaced relation to each other and together with the playing surface define a runway having an entrance end and a discharge end, the forward end portions of said walls extending at a downward incline towards their ends, said walls being bent laterally intermediate their ends to provide laterally extending rear end portions and an arch for extending transversely between the side walls at right angles to the entrance at approximately the intersecting of the front and rear end portions.

2,157,024
GAUGE LINE WIPER
Glen Smith, Clarkwood, Tex.
Application May 28, 1937, Serial No. 145,225
2 Claims. (Cl. 15—210)

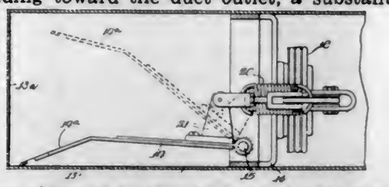


1. A line wiper comprising a bracket one end of which is formed into a hook, the other end of said bracket being provided with a curved surface, a wiper pad on said curved surface, a U-shaped line guide having its arms pivotally mounted eccentric to the axis of said curved surface on said other end of said bracket, a wiper pad mounted in the guide and movable with the guide under the influence of the friction of the line, as it moves in one direction, to carry the line into cooperating relation with the pad on the bracket.

2,157,025
VELOCITY CONTROL DAMPER
Morton O. Snediker, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill.
Application August 7, 1937, Serial No. 157,951
5 Claims. (Cl. 98—37)

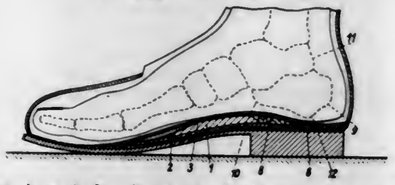
3. In combination, means providing a duct ar-

ranged to enter a room adjacent to the ceiling thereof, a damper in the duct near its point of discharge into the room, the damper blade being mounted on a horizontal transverse pivot located at the bottom of the duct and with its free end extending toward the duct outlet, a substantial



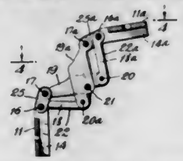
portion of the end of the blade being deflected to lie at a less abrupt angle to the upper wall of the duct than the remainder of the blade when the damper is in partly closed position and a gradually-acting thermostat for positioning the damper.

2,157,026
INSERT FOR BOOTS AND SHOES
Hans Sochor, Zurich-Hongg, Switzerland
Application July 6, 1937, Serial No. 152,118
In Switzerland July 11, 1936
1 Claim. (Cl. 36—71)



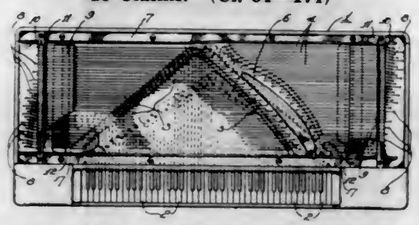
An insert for boots and shoes comprising a support underlying the foot and composed of an outer and inner layer, a resilient prop or pad located between the outer and inner layers and extending forwardly from the lowermost point of the heel-bone, said pad being of a length sufficient only to underlie the forward portion of the heel-bone which slants upwardly from the lowest point of the heel-bone, said prop or pad having a wedge-shaped section with the sharp edge of the wedge beneath the lowermost point of the heel-bone for purposes described.

2,157,027
CONCEALED HINGE
Joseph Soss, Roselle, N. J.
Application November 9, 1937, Serial No. 173,598
8 Claims. (Cl. 16—148)



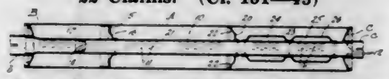
1. A hinge comprising butt members, links pivotally coupled to each butt member and to each other for hingedly coupling said butt members, hood members mounted upon and secured to at least one of the links of each butt member forming cover plates concealing substantially all of said link members at the sides thereof adjacent the butt members, each of said hood members including curved portions partially encircling and concealing the pivoted couplings between the respective links, and adjacent ends of said hood members being straight and arranged in juxtaposition when the hinge is in closed position forming a shield around said pivotal couplings.

2,157,028
PIANO ACTION
Ralph W. E. Sperry, De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, De Kalb, Ill., a corporation of Ohio
Application September 29, 1937, Serial No. 166,377
18 Claims. (Cl. 84—174)



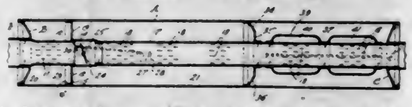
1. A piano having a set of manual keys, a horizontal string frame with all the strings extending substantially parallel to the key manual and perpendicular to the individual keys thereof, said strings being arranged in two groups disposed end to end, hammer actions each disposed substantially in the vertical plane of the string to which it pertains, said actions being arranged in two groups respectively adjacent the opposite ends of the string frame, and means operatively connecting each key with one of said hammer actions.

2,157,029
MUFFLER
Gail C. Starkweather and Lucien L. Haas, Youngstown, Ohio, assignors to Buffalo Pressed Steel Company, Inc., Youngstown, Ohio
Application November 8, 1937, Serial No. 173,340
22 Claims. (Cl. 181—45)



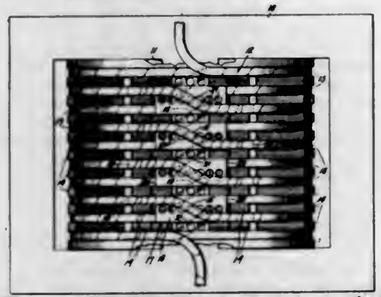
1. A muffler having a plurality of shells arranged one within another and forming a plurality of passages for gases, valve means located in one of said passages for controlling the flow of gases through the same, and means for moving said valve means toward opening position when the interior of said muffler becomes heated by said gases.

2,157,030
EXHAUST MUFFLING MEANS
Gail C. Starkweather and Lucien L. Haas, Youngstown, Ohio, assignors to Buffalo Pressed Steel Company, Inc., Buffalo, N. Y.
Application July 6, 1938, Serial No. 217,703
19 Claims. (Cl. 181—45)



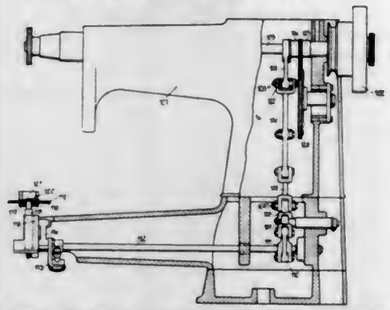
1. Means for muffling the exhaust of an internal combustion engine, including means forming a main gas passage of relatively low resistance to the flow of exhaust gases, valve means arranged in said duct, means forming a second gas passage of higher resistance to the flow of said gases than said main passage and having greater silencing effect upon the exhaust and connecting with said main passage in advance of said valve, and means responsive to the temperature of gases passing through said muffling means for urging said valve into a position to obstruct the passage of gases through said main passage when said muffling means are relatively cool and into an open position when said muffling means are hot.

2,157,031
ELECTRICAL WINDING
Howard O. Stephens, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 1, 1938, Serial No. 193,321
4 Claims. (Cl. 175—362)



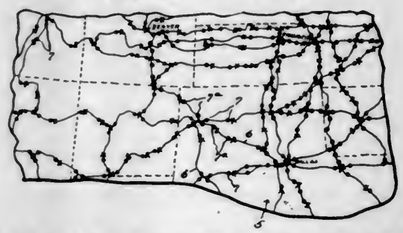
2. The combination in an electrical winding, of two spaced disk coils, radial spacing strips between said coils, a cross-over connection between said coils, and an insulating sheet between said cross-over connection and adjacent coil turns, the insulating sheet having transverse edges engaging said spacing strips to prevent displacement of the sheet.

2,157,032
SEWING MACHINE
Oskar Strobel, Munich, Germany
Application March 25, 1937, Serial No. 132,929
In Germany December 3, 1935
9 Claims. (Cl. 112—176)



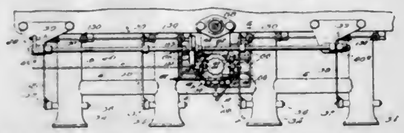
1. A blind-stitch sewing machine comprising a node forming element for forming a bight in the material to be sewn, driving means connected with said element and adapted to impart a reciprocating motion to said element, said driving means comprising a link-lever, a control lever linked to a point of said link-lever which point is intermediary the two ends of said link-lever and which forms a fulcrum about which said link-lever swings, operating means connected with said control lever for imparting a substantially reciprocating motion to said control lever, adjusting means connected with said operating means for changing the stroke of the reciprocating motion of said control lever and thereby changing the position of said fulcrum and the stroke of the reciprocating motion of said node forming element.

2,157,033
ROAD MAP
William R. Thomas, Rapid City, S. Dak.
Application August 18, 1937, Serial No. 159,767
2 Claims. (Cl. 35—40)



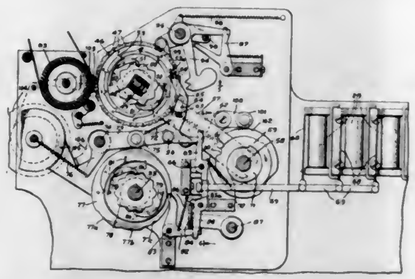
1. A road map comprising a sheet having applied thereon a map of a selected area including markings designating cities and towns and line markings indicating roads connecting said cities and towns, said sheet having weakened portions providing removable parts intersected by the line markings and located adjacent the markings designating the cities and towns, whereby a person after traveling over a selected road and on reaching a city or town may punch out the removable part adjacent said city or town to clearly indicate at a glance thereafter the route traversed by observing the openings made in the sheet by the parts removed therefrom.

2,157,034
FUEL SUPPLY SYSTEM FOR INTERNAL COMBUSTION ENGINES
Percival S. Tice, Chicago, Ill.
Application August 3, 1934, Serial No. 738,276
50 Claims. (Cl. 123—139)



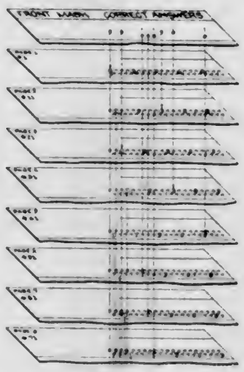
1. In a fuel supply system for internal combustion engines, means providing an air intake passage leading to the several engine cylinders, an air intake valve between said passage and each cylinder, a throttle valve in said passage, a fuel pump for each cylinder for delivering equal measured amounts of fuel to each cylinder, a pump operating device adjustably controlled by the pressure in said passage for varying the fuel feed capacity of all said pumps to similar extent as the intake air pressure is varied, and mechanism operative at different engine loads for controlling the normal adjustment of said pump operating device by the intake air pressure for varying the fuel feed capacity of said pumps disproportionately to the variation in intake air pressure to provide a richer mixture upon predetermined reductions in intake air pressure than would otherwise be supplied under the normal control of said pump operating device by the then existent intake air pressure.

2,157,035
PRINTING MECHANISM
Torkel Edwin Torkelson, Baldwin, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 5, 1936, Serial No. 99,561
15 Claims. (Cl. 101—93)



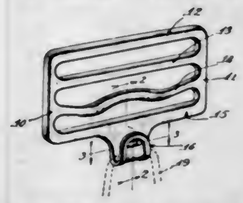
1. In a printing machine, a printing wheel having a plurality of type about its periphery, a supporting shaft for said wheel, means for mounting said wheel on said shaft for movement of the wheel transversely to the axis of the shaft, means for effecting rotary displacement of said wheel about said shaft to select a type for printing and means for moving said wheel upon said shaft transversely to its axis of rotation to effect printing from the selected type.

2,157,036
RECORD BOOK AND SCORING DEVICE
Torkel Edwin Torkelson, Baldwin, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 18, 1936, Serial No. 111,338
2 Claims. (Cl. 35—48)



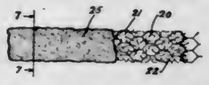
1. A stack of superposed sheets, each having, on the obverse and reverse faces, a plurality of separated, fully confined and completely bounded indicia spots, each sheet also having completely confined exposing spots circumscribed on all sides by opaque portions of the sheet, said indicia spots being differently located on the different sheets, and the indicia spots of either the obverse or reverse face of any sheet being alined with exposing spots of each of the overlying sheets to be viewed through the uppermost sheet.

2,157,037
BUCKLE
Harry P. Troendly, Chicago, Ill., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application April 22, 1937, Serial No. 138,319
3 Claims. (Cl. 24—73)



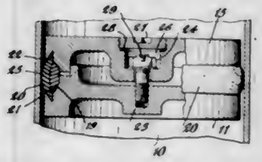
1. In a loop slide buckle comprising an embossed frame having spaced sides and having a third side connecting said spaced sides formed with a depending portion turned back upon itself in a spaced relation to form a hook, said hook being reenforced by having the embossing thereof flattened against the main body portion and having a contracted neck portion adjacent the open end of the hook to prevent accidental displacement of a member to be supported thereby.

2,157,038
SPACER AND SEAL FOR BUILDING CONSTRUCTION
Gerard A. Unverferth, Dayton, Ohio
Application December 6, 1937, Serial No. 178,200
7 Claims. (Cl. 72—106)



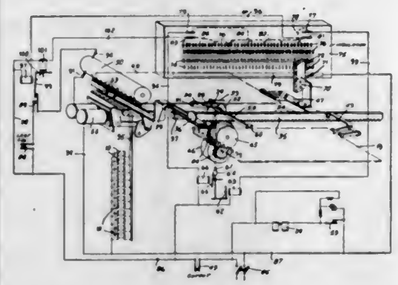
1. A spacer and seal for cementing building blocks together, comprising a flexible and compressible core; a bail about said core for confining it; and a covering of plastic and adhesive material about said bail and core, adapted to adhere to the core and bail and adapted sealingly to engage contacting surfaces of building blocks.

2,157,039
PISTON CONSTRUCTION
Adrian C. Van Hooydonk, Buffalo, N. Y., assignor to John E. Smith's Sons Company, Buffalo, N. Y., a corporation of New York
Application April 28, 1938, Serial No. 204,791
4 Claims. (Cl. 309—4)



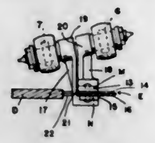
1. A piston of the character described, comprising upper and lower sections having mating inner and outer concentric grooves in the adjoining portions of their peripheries, the end seats of the outer groove converging outwardly and the companion seats of the inner groove converging inwardly, and compressible packing members disposed in concentric abutting relation in said grooves and engaging the respective end seats thereof.

2,157,040
PUNCHING MACHINE
Edward J. Von Pein and Paul J. Schlessiger, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 20, 1937, Serial No. 154,594
2 Claims. (Cl. 164—115)



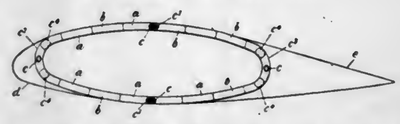
1. In apparatus for punching cards to record data successively in different card fields, punches, duplicating means to control the punching in accordance with a pattern, means for moving said card step by step to successive positions, means comprising a single selectively settable device positionable to cause suppression of duplicating operations in any desired position of the card and all succeeding positions and means comprising a further single selectively settable device positionable to reenable the suppressed duplicating operations in any desired later position of the card and succeeding positions.

2,157,041
MOWING MACHINE STRUCTURE
Robert W. Wagner, Detroit, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application January 3, 1938, Serial No. 183,175
3 Claims. (Cl. 56—297)



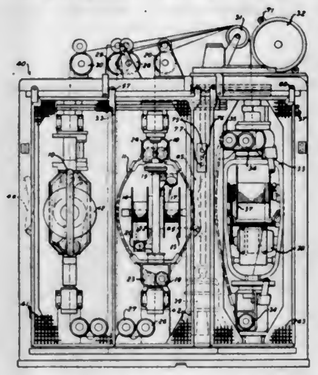
1. In a mowing machine, a cutter mechanism comprising two reciprocating cutter bars arranged in superposed relation, each cutter bar having an elongated bar and a series of blades fixed thereto, said elongated bars being spaced vertically apart and substantially parallel, the blades being upon the opposed faces of said elongated bars and projecting laterally therefrom, a common supporting bar for said cutter bars disposed in rear and substantially parallel to said cutter bars, and actuating means for said cutter bars including brackets fixed to said elongated bars and having bosses arranged side by side above said superposed cutter bars for attachment to pitman rods, one of said brackets being upon the upper face of the uppermost elongated bar, and the other bracket having a portion secured to the underside of the lowermost elongated bar and having a portion movable in a slot in said supporting bar.

2,157,042
WING, FUSELAGE, OR OTHER AIRCRAFT BODY
Barnes Neville Wallis, Weybridge, England, assignor, by mesne assignments, to Vickers-Armstrongs Limited, London, England
Application April 13, 1938, Serial No. 201,811
In Great Britain April 21, 1937
4 Claims. (Cl. 244—123)



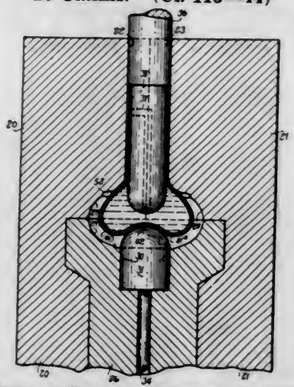
4. An aerofoil including an oval spar composed of continuous intersecting oppositely pitched geodetic bracing members extending unbrokenly in both directions for more than one complete pitch turn, said geodetic members being passed at their intersections by halving each member oppositely, said geodetic members formed with holes aligned from end to end of the spar and a longitudinal stiffening member extending through said holes from end to end of said spar and rigidly connected to the said bracing members where it passes through said holes, and a nose forming fairing secured at one edge and a trailing edge forming fairing secured to the opposite edge of said spar, said fairings merging into the sides of said spar and together therewith forming an aerofoil section.

2,157,043
INTERLOCKING CONTROL SYSTEM
Daniel V. Waters, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 1, 1937, Serial No. 161,979
8 Claims. (Cl. 192—135)



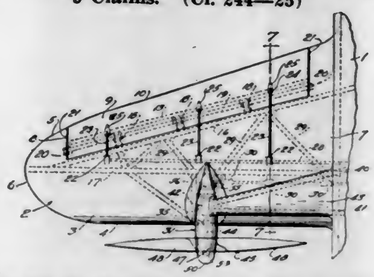
1. The combination with an apparatus having a moving part and an electric motor to drive the apparatus, of safety means comprising a housing to enclose the apparatus, a movable door in the housing, a safety switch within the housing and actuable by the door to close only when the door is closed, locking means for the door within the housing and actuable by a solenoid to lock the door, a control switch within the housing and actuable by a solenoid to supply current to the motor, and an operating switch, the operating switch, the solenoid of the control switch, the solenoid for the locking means, and the safety switch being all in series with a source of electric current.

2,157,044
PROCESS FOR PRODUCING KNOBS OR THE LIKE
Frans B. Wendel, Long Island City, N. Y.
Application February 24, 1937, Serial No. 127,458
10 Claims. (Cl. 113—44)



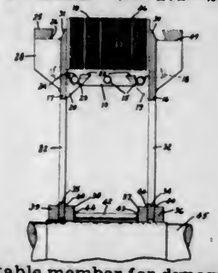
1. A process for producing a hollow bulbous object comprising: applying expanding-force to a metal blank of tubular form at a closed end thereof and submitting a portion thereof to constraining-action constraining the said portion from expanding during the said application of expanding-force, to partially form a bulbous-contour to which stretching-strains of the metal are then substantially confined, and to form an offset thereto comprised of the constrained portion; and subsequently reshaping the said constrained portion to complete the said bulbous-contour; whereby in forming a bulbous enlargement stretching-strains are isolated in portions thereof and rupture loss is substantially eliminated.

2,157,045
AIRSHIP
William Wiese, Cleveland, Ohio
Application December 20, 1937, Serial No. 180,866
5 Claims. (Cl. 244—25)



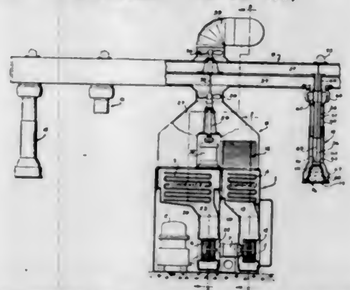
1. In an air ship, a wing, a stream-lined housing disposed transversely of, projecting forwardly from and merging into the top of the wing, said housing including front and rear walls and a partition correlating with said walls to form the housing with a bearing chamber and an oil chamber, said partition and front wall being formed with aligned bearings, a propeller shaft mounted in said bearings and extended outwardly from said front wall, driving means for said shaft arranged in said oil chamber, a propeller including a hub fixed on the shaft and abutting and flush with said front wall, means carried by the shaft and coacting with said driving means for securing the hub against said front wall, an enclosure connected to the hub for the said means carried by the shaft, and a fixed suspended bearing arranged in said bearing chamber for said shaft.

2,157,046
DYNAMO-ELECTRIC MACHINE
Alexander P. Wood, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 11, 1937, Serial No. 179,319
4 Claims. (Cl. 171—252)



1. A rotatable member for dynamo-electric machines having a laminated core, inwardly extending anchor portions formed on the inner periphery of said laminated core, clamping elements, means for clamping said clamping elements to said inwardly extending anchor portions of said core, a supporting structure, and means for securing said clamping elements to said supporting structure.

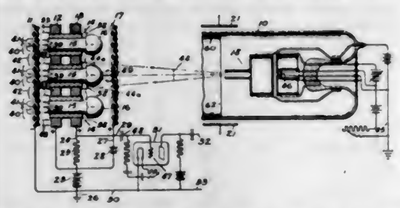
2,157,047
COMBINED AIR CONDITIONING UNIT AND HAIR DRIER
Joseph R. Zwickl, Philadelphia, Pa., assignor to Baldwin-Southwark Corporation, a corporation of Delaware
Application October 28, 1937, Serial No. 171,521
5 Claims. (Cl. 34—26)



1. In combination, an air conditioning apparatus disposed within a room and having a compressor, condenser and evaporator, a hair drying hood, means for circulating air over said condenser and into said hood, and means for circulating room air over said evaporator and back into the room.

2,157,048
TELEVISION SYSTEM
Vladimir K. Zworykin, Collingswood, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 17, 1930, Serial No. 468,610
Renewed January 30, 1937
13 Claims. (Cl. 178—7.2)

11. In a television system, means to produce an electrical current image of a light image, means to convert the electrical current image into an

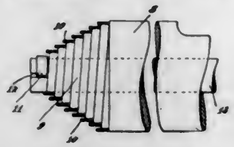


electrostatic charge image, and means for scanning the electrostatic charge image to produce signalling impulses.

2,157,049
PROCESS OF TREATING CAST POLYMERIC RESIN SHEETS
Willard F. Bartoe, Hulmeville, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application April 15, 1937, Serial No. 137,024
5 Claims. (Cl. 18—48)

1. In the process of forming a sheet of polymeric resin wherein a material containing a single $CH_2=C<$ group is polymerized in a mold under conditions which produce surface strains that tend to form minute cracks on the surface of the sheet, the improvement which consists in subjecting the sheet after it is removed from the mold and while it retains the shape imparted to it in the mold to a heat treatment sufficient to release the surface strains but insufficient to destroy its sheet form, said heat treatment being carried out before the appearance of the minute cracks.

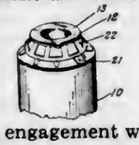
2,157,050
IGNITER COIL MANUFACTURE
Henry W. Bilger and Karl T. Kessel, Meriden, Conn., assignors to The Cuno Engineering Corporation, Meriden, Conn., a corporation of Connecticut
Application August 20, 1937, Serial No. 160,046
6 Claims. (Cl. 29—155.5)



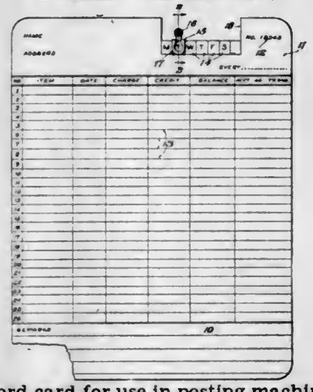
1. The method of making an igniter coil which comprises winding a flat ribbon into a helicospiral form with each convolution partially overlapping the preceding convolution in an axial direction and spaced radially therefrom and then pressing and thereby permanently setting all convolutions in a substantially common plane.

2,157,051
ELECTRIC LAMP
Clarence Birdseye, Gloucester, Mass., assignor to Birdseye Electric Company, a corporation of Delaware
Application March 25, 1937, Serial No. 133,014
11 Claims. (Cl. 176—32)

1. An electric lamp having a bulb provided with surface irregularities in its neck, a metal base having irregularities on its inner surface and cemented to the neck of the bulb, and a clip embedded in the cement within the base and maintained thereby in engagement with both the neck and the base.

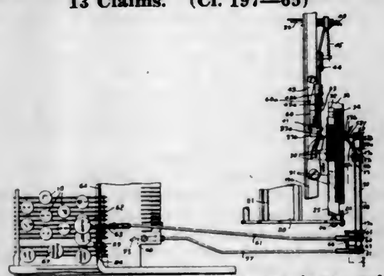


2,157,052
RECORD CARD
Louis N. Brown, Memphis, Tenn.
Application June 24, 1937, Serial No. 150,188
1 Claim. (Cl. 129—16.7)



A record card for use in posting machines comprising a substantially rectangular printed form, one side only of the upper edge of said card being formed with an elongated recess of a length of less than half the width of the card, the opposite sides of said recess providing spaces of different width for identification indicia and the bottom edge of the recess being provided with other indicia, and a signal clip of identifying color slidably engaging the bottom edge of said recess and slidable over the indicia thereon, said clip having an indicating tab confined wholly within the marginal edges of the card whereby said card may be inserted endwise between guides of a posting machine without removal of the signal clip.

2,157,053
TYPEWRITING MACHINE
Chester W. Crumrine, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 18, 1935, Serial No. 41,021
13 Claims. (Cl. 197—65)



12. In combination with a carriage, column

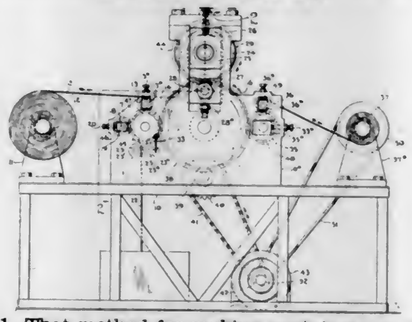
stops, means to set the column stops in an operative position, means to clear said stops, a stop clearing key for controlling the clearing means, power operated carriage return mechanism, and means controlled by said key for initiating operation of the carriage return mechanism when the clearing key is operated.

2,157,054

METHOD AND APPARATUS FOR MAKING PROTECTIVE COVERS OR CONTAINERS

John R. Gammeter, Akron, Ohio, assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application September 1, 1936, Serial No. 99,001
24 Claims. (Cl. 93—8)



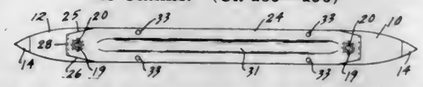
1. That method for making containers or covers of flexible sheet material rendered adhesive by the application of heat which comprises applying superposed layers of said material to a surface and pressing said layers along predetermined lines with a heated blade without heating the material excepting adjacent the blade to sever or partially sever the layers and to apply pressure and heat adjacent the severed edges to cause the superposed layers only to adhere along the margins of the layers at the severed or partially severed edges, whereby the layers of material are later separable to receive an article or material.

2,157,055

SPRING SIDE METAL SHUTTLE

Homer H. Holcombe, Atlanta, Ga., assignor to Textile Equipment, Inc., a corporation of Alabama

Application September 28, 1936, Serial No. 102,903
13 Claims. (Cl. 139—196)



1. A shuttle for looms, comprising an assembly of parts consisting of end members adapted to receive a shuttle tip and an eye or bobbin spring and formed with side seats which increase endwise in vertical displacement from the adjacent upper and lower surfaces of their respective end member, flexible side members, and means to rigidly but demountably connect said sides to said end members with their top and bottom edges conformed to their respective side seats.

2,157,056

WINDSHIELD HEATER

Arthur A. Johnson, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

Application January 29, 1936, Serial No. 61,306
9 Claims. (Cl. 219—19)

9. A windshield heater comprising a frame; a transparent plate carried in said frame; means for mounting said frame with the plate spaced from a windshield; an electrical heating means interposed between said plate and windshield, said heating means including a resistance wire extending over a large surface of the plate through



which vision should be had, said resistance wire being normally so close to the plate as to obstruct easy access thereto for cleaning; and means for moving said heating means from said obstructing means including a pivotally mounted arm and a leaf spring carried thereby, an end of the wire being secured to said leaf spring.

2,157,057

PROCESS OF MAKING WINDOW SHADES

Samuel J. Johnson, Cincinnati, Ohio, assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland

Application August 19, 1936, Serial No. 96,848
1 Claim. (Cl. 91—68)



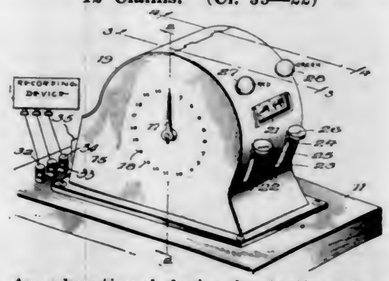
The method of making paper window shades, which comprises, distributing a quantity of coating material upon a continuously passing paper web which does not possess the tendency to curl when it is dry, so as to obtain a plurality of doctored streaks of the coating material in parallel, relatively closely spaced, but heterogeneous relationship, the streaks disposed upon the web being of substantial thickness and collectively providing a corduroy-like surface, and then drying said coating on said web.

2,157,058

EDUCATIONAL DEVICE

Joseph J. Ray, Nashville, Tenn.

Application September 2, 1937, Serial No. 162,200
12 Claims. (Cl. 35—22)



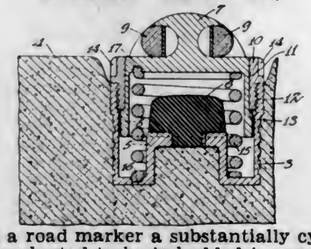
1. An educational device for testing the reaction of a subject to each of a series of displays, comprising a body having thereon a series of displays and a series of elements carried by said body and each associated with one of said displays, and two separate means selectively operable by the subject and each including a member movable in a definite path, said elements being adjustable to alternate positions in each of which it is in the path of movement of one or the other of said members.

2,157,059

ROAD MARKER

Harold J. Rosener, New Ulm, Minn., assignor of four-tenths to Raymond Meidl, one-tenth to Henry H. Flor, and one-tenth to Victor P. Reim, New Ulm, Minn.

Application September 19, 1938, Serial No. 230,654
5 Claims. (Cl. 40—125)



2. In a road marker a substantially cylindrical housing adapted to be imbedded in road surfacing material, a dome shaped head mounted in said housing to normally project above the surface of the road and adapted to be depressed into said housing, a helical spring mounted coaxially within said housing to normally support said head in projecting position and means connecting one end of said spring to said housing and the other end thereof to said head to resiliently restrain said head against rotation relative to said housing.

2,157,060

AUSTENITIC CHROMIUM NICKEL STEEL ALLOYS

Paul Schafmeister, Essen, Germany, assignor, by mesne assignments, to Krupp Nirosta Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Original application July 11, 1931, Serial No. 550,288. Divided and this application August 31, 1938, Serial No. 227,689. In Germany July 21, 1930
6 Claims. (Cl. 75—128)

1. A metal article which, in its normal use, is subjected to active corrosive influences while the metal in at least part of the article is in a condition resulting from heating at ranges within the carbide precipitation range (approximately 500° to 900° C.) without subsequent heating at substantially higher temperatures, said article being resistant to said corrosive influences and composed of a corrosion resisting austenitic steel, the iron of which is substantially all in the gamma form, containing about 12% to 30% chromium, about 7% to 25% nickel, carbon at least .07% but not over 1%, and zirconium in an amount sufficient to combine with substantially all of the carbon, but not in excess of 10%, the balance being substantially all iron.

2,157,061

DRIVING BELT

Ernst Siegling, Hanover, Germany

Application November 16, 1937, Serial No. 174,843
In Germany April 30, 1937
2 Claims. (Cl. 74—232)

1. A belt drive for use with two pulleys arranged at a distance from one another and each provided at its circumference with at least one wedge-shaped annular groove, said driving belt adapted to co-operate with said pulleys and being composed of strips set on edge side by side and connected together, the greater portion of the number of these strips being equal in height and



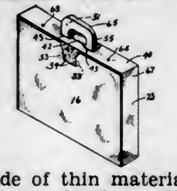
at least one strip having greater height than the remaining strips and having wedge-shaped cross-section in its projecting portion, the driving belt being so arranged that the higher strip is adapted to engage into the annular groove of the pulley.

2,157,062

BOX

Charles A. Stopper, Philadelphia, Pa., assignor to Diamond Paper and Box Company, a copartnership, Philadelphia, Pa.

Application March 31, 1937, Serial No. 133,986
5 Claims. (Cl. 229—33)



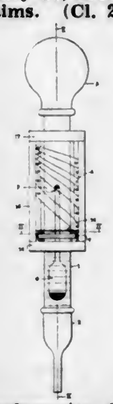
1. A box made of thin material, adapted for carrying clothing and other articles, having a holding portion and a cover portion integral therewith, in hinged relation, said cover portion being slotted and having in combination therewith a handle portion projecting out through the slot in said cover portion, and a member of the same material, integral with said handle portion, extending across said slot to there reinforce said cover portion.

2,157,063

THERMOHYDROMETER

Julian A. Wesseler, Crestwood, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

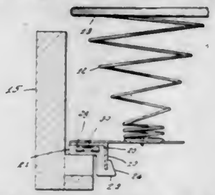
Application January 30, 1937, Serial No. 123,134
8 Claims. (Cl. 265—46)



1. A thermo-hydrometer for reading directly temperature-corrected specific gravities which comprises a receptacle for the liquid, a float positioned in said receptacle and adapted to move freely in said receptacle in a vertical direction, and provided with a visual indicator, temperature indicating means for the liquid having a fixed element and an element movable transversely of the direction of movement of the float, a level indicator for the liquid in the receptacle, and a

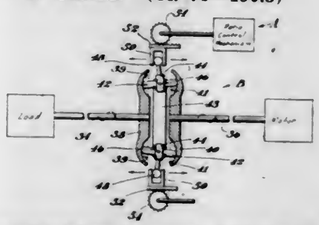
temperature corrected scale, carried by the receptacle, and in a predetermined relation to the said liquid level indicator and to the fixed element of the temperature indicating means, for reading the specific gravity of the liquid at the level of the said liquid level indicator, alignment of the visual float indicator vertically with the movable element of the temperature indicating means and horizontally with the temperature corrected scale giving the desired reading.

2,157,064
BED CONSTRUCTION
William E. Wunderlich, Muncie, Ind., assignor to The Moore Company, Muncie, Ind., a corporation of Indiana
Application August 14, 1936, Serial No. 95,958
2 Claims. (Cl. 5—207)



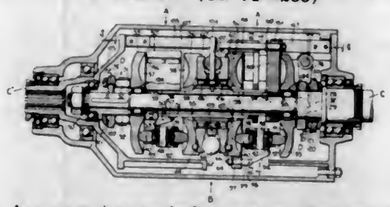
2. In a bed spring having a bottom frame formed of angle iron with a horizontal flange projecting outwardly and a vertical flange projecting downwardly, cushioning means on said bottom frame, said cushioning means comprising an L-shaped member of resilient material lying against the lower face of said horizontal flange and the outer face of said vertical flange, and a clip secured to one of such flange-faces, said member being provided with a longitudinal slot for the reception of said clip, and said clip embodying portions engaging the end faces of said L-shaped member to prevent longitudinal displacement thereof.

2,157,065
VARIABLE SPEED POWER TRANSMISSION CONTROL
Alain Madlé, Bristol, Conn., assignor, by mesne assignments, to Mildred S. Reisman, New York, N. Y.
Application October 25, 1933, Serial No. 695,145
17 Claims. (Cl. 74—190.5)



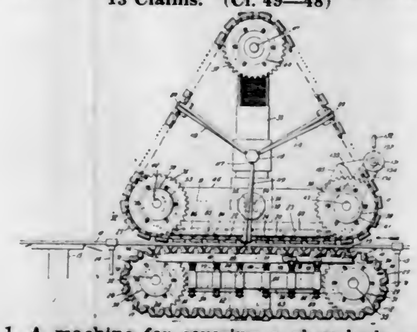
1. In combination, a prime mover for driving a load, a variable speed ratio power transmission intermediate said prime mover and said load, a source of power for said prime mover, means responsive to pressure conditions in the source of power for altering the speed ratio of the power transmission so as to lower it when such pressure drops, and means responsive to the flow of power into the prime mover and adapted to set the speed ratio of the transmission so as to lower it when the flow of power into the prime mover exceeds a predetermined maximum.

2,157,066
POWER TRANSMISSION MECHANISM
Alain Madlé, Bristol, Conn., assignor, by mesne assignments, to Mildred S. Reisman, New York, N. Y.
Application August 23, 1933, Serial No. 686,350
36 Claims. (Cl. 74—285)



1. A power transmission system for transferring power between a pair of torque-transmitting members, said system comprising a plurality of branches along which power may pass between said members, speed-balancing means interposed between said branches and one of said members, whereby the ratio between the speeds transmitted by the various branches will be predetermined, and resilient means in the path of the transmitted power and interposed between said speed-balancing means and the last-mentioned member for modifying the transmitted torques.

2,157,067
APPARATUS FOR DRAWING AND SEVERING GLASS RODS OR TUBING
Carl A. Brown, Chardon, and Frank B. Van Sickle, Lyndhurst, Ohio, assignors to General Electric Company, a corporation of New York
Application June 21, 1934, Serial No. 731,662
13 Claims. (Cl. 49—48)

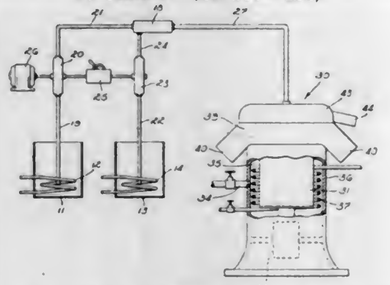


1. A machine for severing a glass body comprising an endless belt adapted to engage and move said glass body, a knife mounted on and movable with said belt and adapted to engage said glass body and means for moving the knife transversely to the path of travel of and across the surface of the body so that said body is scored.

2,157,068
LIGHT STABILIZERS FOR VINYL RESINS
Thomas F. Carruthers, South Charleston, and Charles M. Blair, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application October 16, 1936, Serial No. 105,912
7 Claims. (Cl. 260—86)

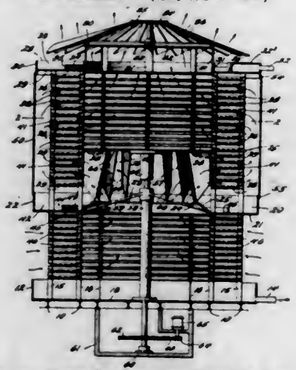
1. A light stable intrinsically colorless or faintly tinted composition comprising a light sensitive vinyl resin conjointly polymerized from at least two polymerizable vinyl compounds, including a vinyl halide, stabilized against the deteriorating and discoloring effects of light by being intimately combined with from about 0.5% to about 10% of a stabilizing agent composed solely of the elements carbon, hydrogen and oxygen and consisting of an aryl ester of an aryl carboxylic acid having a single carbocyclic ring.

2,157,069
PROCESS OF REFINING OIL
Benjamin Clayton, Houston, Tex., assignor to Refining, Inc., Reno, Nev., a corporation of Nevada
Application October 8, 1937, Serial No. 168,000
19 Claims. (Cl. 260—424)



1. A process of refining oils of the glyceride type containing impurities, which process includes the steps of: continuously bringing together and forming a mixture of proportioned streams of said oil and a refining reagent capable of acting upon said impurities to form foots; promptly centrifugally separating said foots from said oil in a zone of centrifugal separation; and subjecting said mixture to an increase in temperature at the zone of centrifugal separation to facilitate centrifugal separation and continuously separating the foots from the oil.

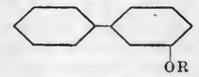
2,157,070
COOLING TOWER
Stewart C. Coey, Glen Ridge, N. J.
Application December 28, 1936, Serial No. 117,996
17 Claims. (Cl. 261—11)



1. In a cooling device for liquids in combination, a tower including baffle means to cause liquid to fall from top to bottom thereof in adjacent concentric curtains interrupted periodically in velocity only to retard the fall and a single air circulating device disposed within the curtains and intermediate the ends thereof to cause the same air to pass through all of the liquid curtains a plurality of times and in alternate directions.

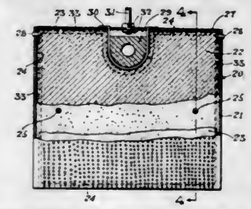
2,157,071
ALKYL ETHERS OF META-PHENYLPHENOL
Gerald H. Coleman and Garnett V. Moore, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 27, 1937, Serial No. 161,282
6 Claims. (Cl. 260—612)

1. An ether having the general formula



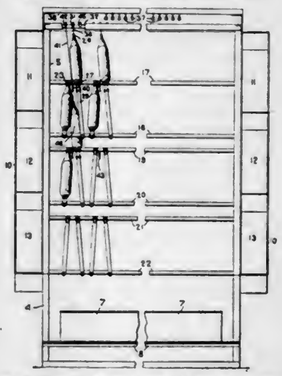
wherein R represents an alkyl radical containing at least 4 carbon atoms.

2,157,072
BATTERY ELECTRODE ELEMENT AND METHOD OF MAKING THE SAME
Albert I. Eddy, Hillside, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application January 29, 1937, Serial No. 122,894
19 Claims. (Cl. 136—117)



19. The method of treating a galvanic cell depolarizing element comprising a body consisting principally of metal oxide as the depolarizing material, which consists in subjecting said body under heat to the action of a dry reducing gas only until such body is provided with a comparatively thin surface layer of metal, and then rapidly cooling the heated surface layer of said body.

2,157,073
CREEL FOR YARN PACKAGES
William W. Edwards, Franklin, N. H., assignor to M. T. Stevens & Sons Company, North Andover, Mass., a corporation of Massachusetts
Application May 26, 1938, Serial No. 210,138
16 Claims. (Cl. 242—131)



1. A creel for yarn packages comprising a frame, a lateral row of yarn guides on the frame,

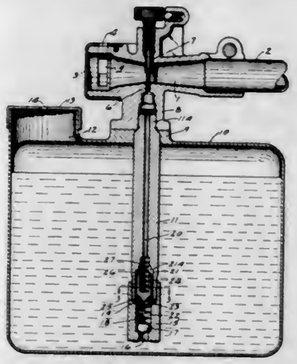
and a plurality of laterally arranged pairs of supports for the yarn packages with the supports of each pair mounted on the frame for movement in rectilinear paths intersecting at a yarn guide to carry the yarn packages endwise between laterally overlapping running positions equidistant from the yarn guide and laterally adjacent supplying positions.

2,157,074

FUEL FEED DEVICE

George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application February 20, 1937, Serial No. 126,947
2 Claims. (Cl. 261—66)



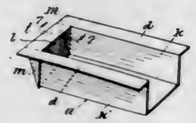
1. In combination with an internal combustion engine, a suction conduit and a fuel storage tank, structure connecting said conduit and said tank including a passage terminating near the bottom of said tank, an inlet check at the bottom of said passage, spaced valve seats above said check, and a plunger valve movable between said seats and proportioned relative to the space therebetween so that when suction is applied to said passage, said plunger valve is drawn upwardly against the upper of said seats restricting the quantity of liquid drawn into said conduit and at the end of the suction pulsation said plunger valve drops to the lower of said seats, said inlet check maintaining a full column of liquid in said passage during dropping of said plunger valve.

2,157,075

VEHICLE BODY

Hans Grade, Bork, Kreis Zauch-Belzig, Germany

Application December 9, 1935, Serial No. 53,558
In Germany December 12, 1934
3 Claims. (Cl. 296—28)



1. A vehicle body comprising a box of channel formation and rectangular in plan, an end wall at one end of the box, a flange of U shape secured at its inner edges to the upper edges of the side walls and the end wall of the box and projecting laterally and outwardly of the side and end walls of the box and means at one end of the box for bracing said U shaped flange.

2,157,076

BRACELET CONSTRUCTION

Emil Haeffner, Newark, N. J., assignor to Gemex Company, Newark, N. J., a corporation of New Jersey

Application April 17, 1935, Serial No. 16,784
8 Claims. (Cl. 24—71)



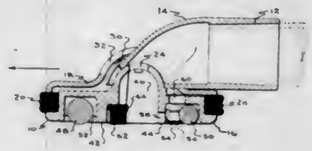
1. An extensible buckle comprising, in combination, a housing link having a top and longitudinal side walls, a sliding link member slidably retained between said walls of said housing link, a movable member substantially as long as said housing link pivotally connected to said housing link substantially adjacent one end thereof and located between said top of said housing link and said sliding link member, one of said members having a plurality of teeth formed thereon, a pawl connected to the other of said members, and a fingerpiece secured to said movable member and located substantially adjacent the end of said housing link opposite the end thereof to which said movable member is pivoted.

2,157,077

VACUUM SWEEPER NOZZLE AND THE LIKE

Henry A. Kroenlein, Jackson, Mich., assignor to The Filtex Corporation, Jackson, Mich., a corporation of Michigan

Application October 6, 1938, Serial No. 233,642
4 Claims. (Cl. 15—155)



1. A vacuum sweeper nozzle for cleaning carpets and other surfaces comprising a main body having a generally flat lower surface supporting the nozzle for sliding movement on the carpet, said lower surface within the borders thereof being recessed to define a suction chamber opening through the plane of said lower surface, an air by-pass defined in said body and opening into said chamber and extending to the atmosphere through which air may flow to materially reduce the degree of suction in said chamber whereby the resistance to movement of the nozzle over the carpet is reduced, an elongated roller supported in said body for rotary and bodily movement normal to its axis of rotation and toward the front of the nozzle as well as toward the rear of the nozzle in substantially the plane of said lower surface, the periphery of said roller projecting into the plane of said lower surface so as to engage with the carpet whereby rotary and bodily movement of said roller is induced through engagement therewith, said roller being supported adjacent said by-pass and shaped to closely fit in said by-pass to close the same in one position when the nozzle is moved in one direction over the carpet, said roller in another position opening said by-pass when the nozzle is moved in an opposite direction over the carpet.

2,157,078

LUBRICATING OILS

Bert H. Lincoln and Gordon D. Byrkit, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application February 15, 1936, Serial No. 64,167
18 Claims. (Cl. 87—9)

1. A lubricating oil comprising in combination a major portion of hydrocarbon oil and a minor portion of a halogenated poly hydroxy cyclic ester.

2,157,079

LUBRICATING OIL

Bert H. Lincoln and Gordon D. Byrkit, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application July 10, 1935, Serial No. 30,733
1 Claim. (Cl. 87—9)

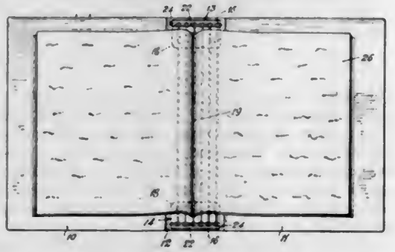
A lubricating composition comprising in combination a major proportion of mineral lubricating oil and a minor proportion of trichlor phenyl stearate.

2,157,080

BINDER

Jacob Mandel, Brooklyn, N. Y., assignor to American Binder Company, New York, N. Y., a corporation of New York

Application May 29, 1937, Serial No. 145,439
2 Claims. (Cl. 129—38)



2. A binder having mounting brackets at the opposite ends of the intermediate portion thereof, a plurality of flat mounting bars adapted to be received at opposite ends in said brackets with their wider sides running normal to said intermediate portion, said bars being provided with shoulders adjacent to their ends, and locking devices movable into position for engagement by said shoulders, and acting to hold the mounted bars against bowing, the ends of the bars being so dimensioned that an end of each bar can be inserted into the corresponding bracket into locking engagement with the locking device or can be disengaged from the locking device while the latter is in its operative position by pivotal movement about said device.

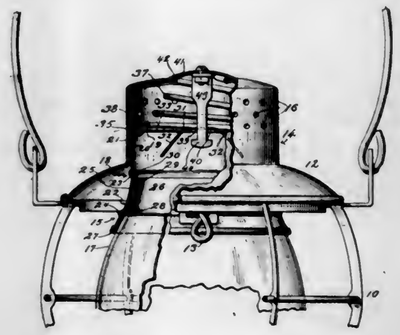
2,157,081

HAND LANTERN

Antonio Menna, Newark, N. J., assignor to Lovell-Dressel Company, Inc., Arlington, N. J., a corporation of Maine

Application March 24, 1936, Serial No. 70,582
2 Claims. (Cl. 240—51)

1. In a hand lantern, a lantern top comprising a cylindrical portion, a globe-receiving member formed as an integral structure having a cylindrical portion provided with a downwardly and outwardly flaring portion at its base, and a circular row of apertures in said flaring portion, a transverse member integral with the top of said globe-receiving member having oppositely-disposed downwardly and outwardly extending wings constituting deflectors, and air passages in said transverse member, an annular spring-receiving socket in said lantern top, spring-engaging loops formed in said top bridging said annular socket, a coil spring having one end disposed in said



socket and retained in position therein by said loops and its other end bearing against the underside of said lantern top, means in said lantern top for detachably securing said globe-receiving member thereto, and a baffle, cooperating with the row of circular apertures in the top of said globe-receiving member, secured along its lower edge to the edge of the flaring portion of the top of said globe-receiving member and its other end free and extending upwardly within the flaring portion thereof in spaced relation thereto and terminating in a horizontal plane above the circular row of apertures in said globe-receiving member.

2,157,082

FELT

Tom Milnes, Lachute Mills, Quebec, Canada, assignor to Ayers Limited, Lachute Mills, Quebec, Canada

Application April 16, 1937, Serial No. 137,309
1 Claim. (Cl. 139—408)

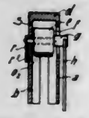


A three-ply asbestos dryer felt in which the weft of each ply is composed of yarns comprising a textile core, an asbestos-fibre envelope completely enclosing said core and an outer binding of textile threads spiralled around the asbestos envelope, said felt being further characterized in that the warp of the upper ply is composed entirely of core-yarns comprising a core of textile fibres enclosed in an asbestos-fibre envelope while the warps of the central and bottom plies consist solely of textile fibres such as cotton.

2,157,083
PREPARATION OF CELLULOSE ETHERS
Floyd C. Peterson, Syracuse, N. Y., and Arthur J. Barry, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application January 29, 1938, Serial No. 187,655
18 Claims. (Cl. 260—231)

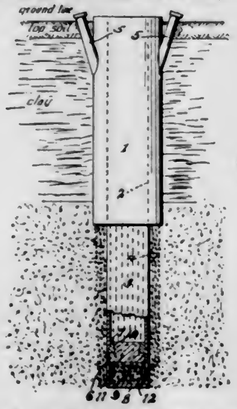
1. The process which comprises reacting substantially anhydrous cellulose with an alkali metal in a medium comprising anhydrous liquid ammonia and a liquid hydrocarbon which is inert to the cellulose and liquid ammonia and substantially inert to the action of the alkali metal.

2,157,084
SLIDING CLASP FASTENER
Fritz Rafael, Frankfort-on-the-Main, Germany, assignor to Julius Bloch, London, England
Application June 23, 1937, Serial No. 149,796
In Germany July 2, 1936
4 Claims. (Cl. 24—205)



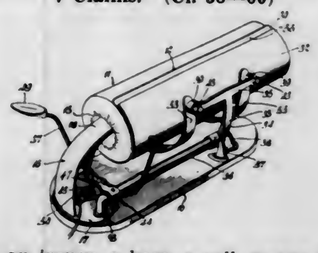
1. A slide for sliding fasteners with a plurality of fastener elements of the class described comprising: a slide body having a front plate and a rear plate, the front plate of said body being provided with an opening of wedge-shape, an actuating wedge for said fastener elements, said actuating wedge being removably and rotatably arranged in said body, said actuating wedge having a cross section conforming with said opening and being adapted to be removed through said opening when it is in a position registering therewith, means adapted to hold said actuating means in its operative position in said body when it is rotated into a position not registering with said opening, and means for rotating and removing said wedge.

2,157,085
WATER WELL
Chester E. Records, Columbus, Ohio
Application June 8, 1938, Serial No. 212,551
6 Claims. (Cl. 166—1)



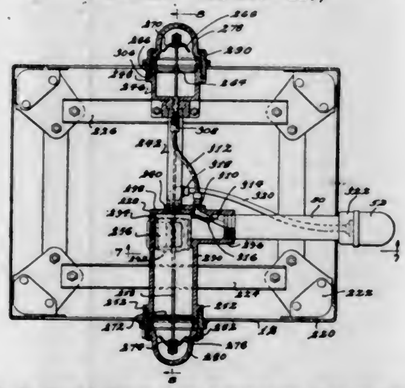
6. A method of cleaning the exterior of the screen of a completed pebbled water well, consisting in removing material from the bottom of the well below the screen to thereby provide an excavation toward which the pebbled wall will gravitate and thereby cause the pebbles of such wall in contact with the screen to exert an abrading action on the surface of the screen for cleaning the same.

2,157,086
IRONER
William Earle Stillwell, Jr., Cincinnati, Ohio, assignor to Empire Ironer, Inc., Cincinnati, Ohio, a corporation of Ohio
Application February 14, 1938, Serial No. 190,370
7 Claims. (Cl. 38—60)



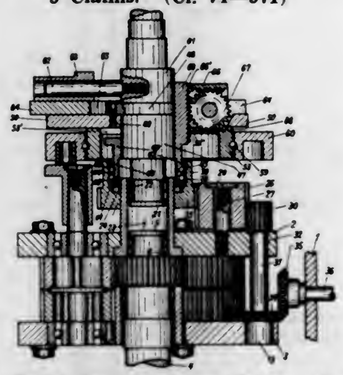
1. In an ironer, a base, a roll, means for supporting said roll for rotation relative to said base, means for driving said roll, an arcuate shoe mounted for movement toward and from the roll, a rock shaft, a lever for rocking said shaft, a resilient T-shaped bracket securing said shoe to said shaft, the lower end of the shank of said T-shaped bracket being operatively connected to the shaft, and means for yieldably attaching the ends of the head of the T-shaped bracket to said shoe.

2,157,087
LIQUID DISPENSING APPARATUS
Robert J. Jauch, Fred W. Sturm, and William M. Griffin, Fort Wayne, Ind.; Willard Shambaugh and Frank J. Travers, both of Fort Wayne, Ind., coexecutors of William M. Griffin, deceased, assignors to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland
Application January 11, 1936, Serial No. 58,770
9 Claims. (Cl. 116—117)



8. In liquid dispensing apparatus, the combination of a casing, discharge means, connected sight gauges mounted on different sides of said casing and protruding therefrom, said gauges including transparent members and associated housing means supported by said casing and connected to said discharge means, movable means disposed in said transparent members and housing means and actuated by liquid passing through said housing means upon discharge from said discharge means, said transparent members being so disposed and protruding that at least one of said transparent members and the movable means therein is visible from substantially any position around said liquid dispensing apparatus.

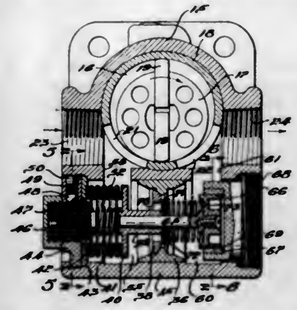
2,157,088
SPEED REGULATING DEVICE
Richard Seidel, Dresden, Germany, assignor to Vasanta Maschinenfabrik A.-G., Dresden, Germany
Original application May 1, 1936, Serial No. 77,387. Divided and this application November 18, 1936, Serial No. 111,498. In Germany May 3, 1935
5 Claims. (Cl. 74—571)



1. A device for regulating the speed of rotating parts by means of a member adjustable as to eccentricity during operation, comprising a driving shaft, a rack axially displaceably arranged outside the driving shaft, a toothed wheel in mesh with the rack, a toothing forming part of the eccentrically adjustable member radially movable relative to the driving shaft, said toothing being in mesh with said toothed wheel, and a toothed member radially movable relative to the driving shaft for compensating the centrifugal forces of the eccentrically adjustable member, the toothing of said member also engaging said toothed wheel.

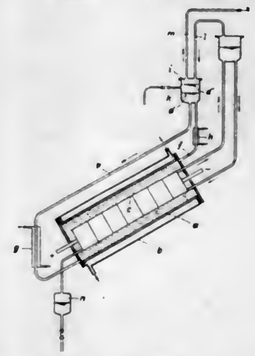
2,157,089
PUMP
Harold A. Storch, Raymond V. Dillon, and Stuart H. Caldwell, Detroit, Mich., assignors, by mesne assignments, to Chandler-Evans Corporation, Detroit, Mich., a corporation of Michigan
Application October 26, 1935, Serial No. 46,856
6 Claims. (Cl. 137—153)

1. A by-pass valve construction for use in connection with a fluid pump, including a housing having inlet and outlet chambers therein, said housing being formed to provide inlet and outlet ports respectively communicating with said inlet and outlet chambers, a valve seat having an opening therein serving to provide communication between said chambers, a disk valve adapted to cooperate with said seat to close said opening, said valve having a stem projecting into each of said chambers, an expansible bellows connected to said valve stem and disposed in one of said chambers and one element of a dash pot connected to said valve stem in the other of said chambers, an aperture through said valve, an



auxiliary valve means for closing said aperture and resilient means confined between said dash pot element and said auxiliary valve means for seating the same in position to close the aperture through said disk valve.

2,157,090
METHOD OF INSULATING ELECTROLYTIC APPARATUS OPERATED UNDER PRESSURE
Hans Niederreither, Munich, Germany
Application March 31, 1937, Serial No. 134,152
In Germany March 30, 1936
1 Claim. (Cl. 204—5)



The method of insulating an aqueous bath electrolytic apparatus operated under condition of pressure, which includes enclosing the said pressure electrolyzer containing an aqueous potash electrolyte in a pressure container spaced apart from the said electrolyzer, filling the said space therebetween with an insulating material consisting of chlorinated diphenyl, the said chlorinated diphenyl being a liquid at the electrolyzing temperature and solid at room temperatures and having higher specific gravity than the said electrolyte, cooling the outer surface of said container by passing a cooling medium through a jacket surrounding said container and thereby cooling said container to such an extent that a solid or viscous layer of the said chlorinated diphenyl is maintained on the inner surface of the said container.

DESIGNS

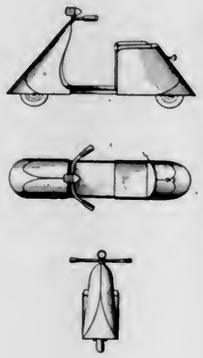
MAY 2, 1939

114,525
DESIGN FOR A COAT
Abraham Alper, New York, N. Y.
Application February 9, 1939, Serial No. 82,887
Term of patent 3½ years



The ornamental design for a coat, substantially as shown and described.

114,526
DESIGN FOR A JUVENILE VEHICLE
Paul S. Beshore, Kearney, Nebr.
Application June 24, 1938, Serial No. 78,043
Term of patent 7 years



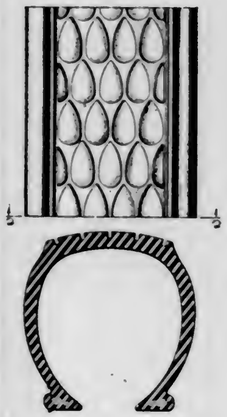
The ornamental design for a juvenile vehicle, substantially as shown.

114,527
DESIGN FOR A CASTER
Cecil W. Boden, Oakland, Calif.
Application July 8, 1938, Serial No. 78,359
Term of patent 7 years



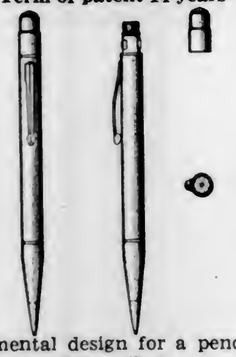
The ornamental design for a caster, substantially as shown.

114,528
DESIGN FOR A TIRE
Richard H. Burgess, San Antonio, Tex.
Application June 11, 1938, Serial No. 77,776
Term of patent 14 years



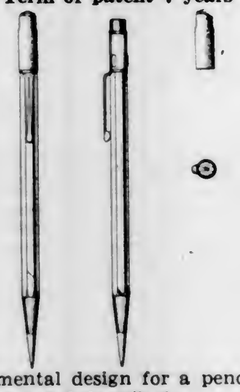
The ornamental design for a tire, as shown.

114,529
DESIGN FOR A PENCIL
Frank C. Dell, Erik Petau, and Glenn W. Tammen, Chicago, Ill., assignors to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1938, Serial No. 74,570
Term of patent 14 years



The ornamental design for a pencil, substantially as shown and described.

114,530
DESIGN FOR A PENCIL
Frank C. Dell, Erik Petau, and Glenn W. Tammen, Chicago, Ill., assignors to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1938, Serial No. 74,571
Term of patent 7 years



The ornamental design for a pencil, substantially as shown and described.

114,531
DESIGN FOR LITHOGRAPHED SHEET METAL FOR METAL CONTAINERS
Everett E. Engstrom, White Plains, N. Y., assignor to McKeesport Tin Plate Corporation, New York, N. Y., a corporation of Delaware
Application March 4, 1939, Serial No. 83,343
Term of patent 7 years



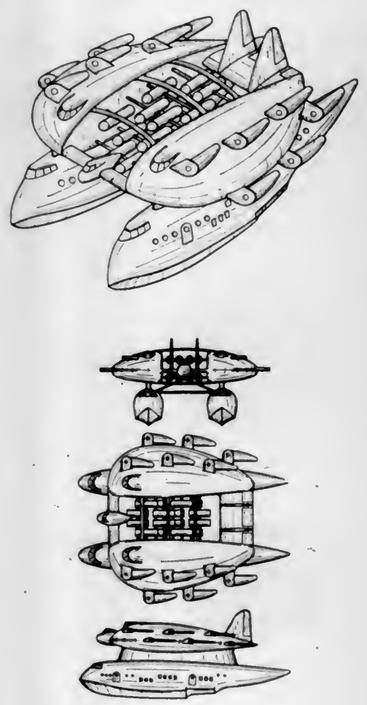
The ornamental design for lithographed sheet metal for metal containers, substantially as shown.

114,532
DESIGN FOR LITHOGRAPHED SHEET METAL FOR METAL CONTAINERS
Everett E. Engstrom, White Plains, N. Y., assignor to McKeesport Tin Plate Corporation, New York, N. Y., a corporation of Delaware
Application March 4, 1939, Serial No. 83,344
Term of patent 7 years



The ornamental design for lithographed sheet metal for metal containers, substantially as shown.

114,533
DESIGN FOR AN AIRSHIP
Justus W. Fry, Renton, Wash.
Application February 11, 1939, Serial No. 82,925
Term of patent 14 years



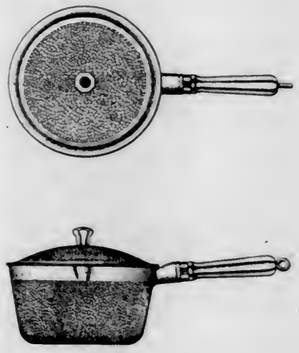
The ornamental design for an airship, as shown.

114,534
DESIGN FOR A GAME BOARD
William A. Fuld, Baltimore, Md.
Application November 1, 1938, Serial No. 80,807
Term of patent 14 years



The ornamental design for a game board, substantially as shown.

114,535
DESIGN FOR A SAUCEPAN OR SIMILAR ARTICLE
Erik G. Grundstrom, Chicago, Ill., assignor to Advance Aluminum Castings Corp., Chicago, Ill., a corporation of Illinois
Application May 6, 1938, Serial No. 77,037
Term of patent 14 years



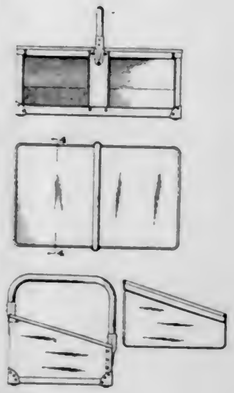
The ornamental design for a saucepan or similar article, substantially as shown.

114,536
DESIGN FOR A COMBINED DISPENSER AND CLOSURE FOR A CONTAINER
Edward Richard Hacmac, Hollywood, Calif., assignor to Na-Mac Products Company, a corporation of California
Application October 8, 1938, Serial No. 80,318
Term of patent 14 years



The ornamental design for a combined dispenser and closure for a container, substantially as shown and described.

114,537
DESIGN FOR A DISPLAY BASKET
Laurence G. Hobbs, Fitchburg, Mass., assignor to United States Travelware Corporation, Fitchburg, Mass., a corporation of Massachusetts
Application October 6, 1938, Serial No. 80,295
Term of patent 14 years



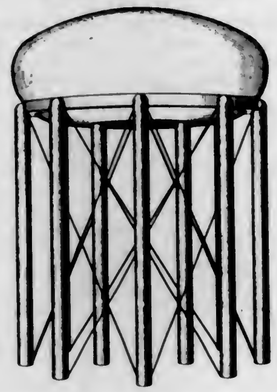
The ornamental design for a display basket, as shown.

114,538
DESIGN FOR A COMBINATION REFRIGERATOR AND COOKING RANGE
Earnest F. G. Hohs, Renfrew, Ontario, Canada
Application September 30, 1937, Serial No. 71,898
Term of patent 7 years



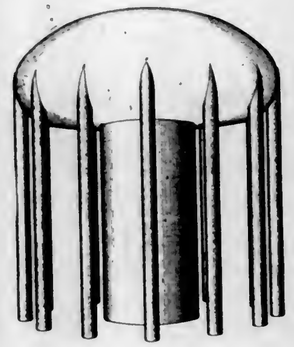
The ornamental design for a combination refrigerator and cooking range, substantially as shown.

114,539
DESIGN FOR AN ELEVATED TANK
George T. Horton, Chicago, Ill.
Application November 17, 1938, Serial No. 81,183
Term of patent 14 years



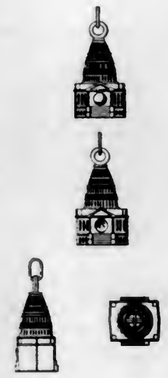
The ornamental design for an elevated tank, as shown.

114,540
DESIGN FOR AN ELEVATED TANK
George T. Horton, Chicago, Ill.
Application November 19, 1938, Serial No. 81,229
Term of patent 14 years



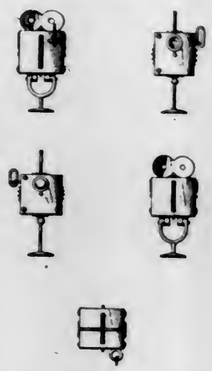
The ornamental design for an elevated tank, as shown.

114,541
DESIGN FOR A CHARM
Walter Lampl, New York, N. Y.
Application August 16, 1938, Serial No. 79,379
Term of patent 14 years



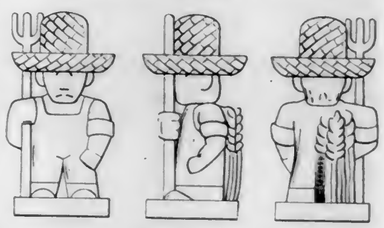
The ornamental design for a charm, as shown.

114,542
DESIGN FOR A CHARM
Walter Lampl, New York, N. Y.
Application August 29, 1938, Serial No. 79,625
Term of patent 14 years



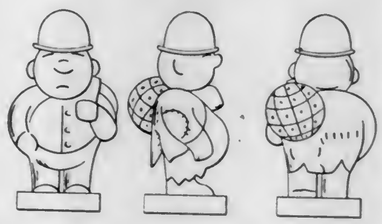
The ornamental design for a charm, as shown.

114,543
DESIGN FOR A GAME PIECE
Bennett Lewis, New York, N. Y.
Application October 29, 1938, Serial No. 80,743
Term of patent 3½ years



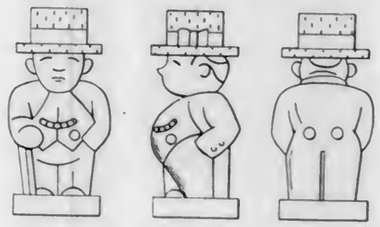
The ornamental design for a game piece, substantially as shown.

114,544
DESIGN FOR A GAME PIECE
Bennett Lewis, New York, N. Y.
Application October 29, 1938, Serial No. 80,744
Term of patent 3½ years



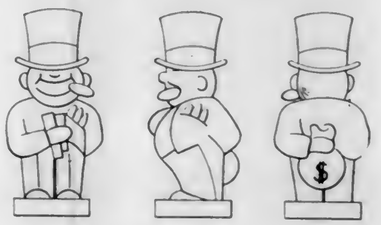
The ornamental design for a game piece, substantially as shown.

114,545
DESIGN FOR A GAME PIECE
Bennett Lewis, New York, N. Y.
Application October 29, 1938, Serial No. 80,745
Term of patent 3½ years



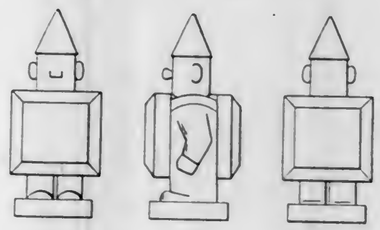
The ornamental design for a game piece, substantially as shown.

114,546
DESIGN FOR A GAME PIECE
Bennett Lewis, New York, N. Y.
Application October 29, 1938, Serial No. 80,746
Term of patent 3½ years



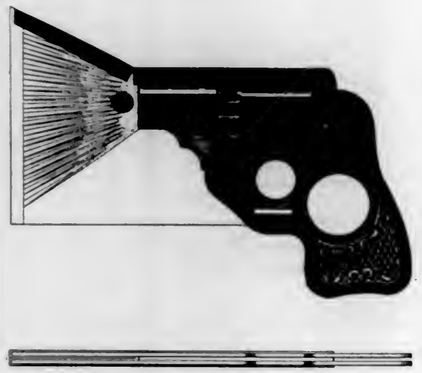
The ornamental design for a game piece, substantially as shown.

114,547
DESIGN FOR A GAME PIECE
Bennett Lewis, New York, N. Y.
Application October 29, 1938, Serial No. 80,747
Term of patent 3½ years



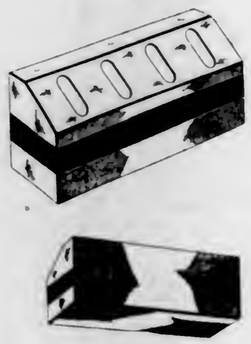
The ornamental design for a game piece, substantially as shown.

114,548
DESIGN FOR A TOY GUN
Albert T. Linney, Lexington, Ky.
Application September 7, 1938, Serial No. 79,765
Term of patent 7 years



The ornamental design for a toy gun, as shown.

114,549
DESIGN FOR A DISTRIBUTION BOX FOR ELECTRIC FENCE INSTALLATIONS
Sidney A. Moore, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 11, 1938, Serial No. 75,073
Term of patent 3½ years



The ornamental design for a distribution box for electric fence installations, as shown.

114,550
DESIGN FOR A COMBINED COFFEE MAKER AND TEAPOT OR SIMILAR ARTICLE
Walter B. Moore, West Lafayette, Ohio
Application January 19, 1939, Serial No. 82,448
Term of patent 7 years



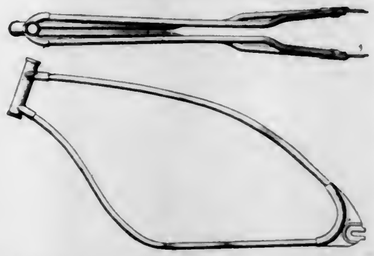
The ornamental design for a combined coffee maker and teapot or similar article, substantially as shown.

114,551
DESIGN FOR A COASTER
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 17, 1938, Serial No. 80,493
Term of patent 7 years



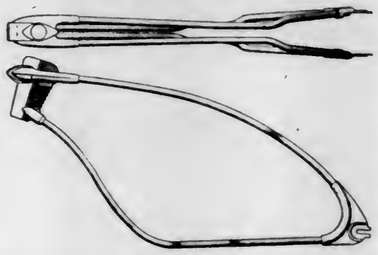
The ornamental design for a coaster, substantially as shown.

114,552
DESIGN FOR A BICYCLE FRAME
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 10, 1938, Serial No. 81,004
Term of patent 7 years



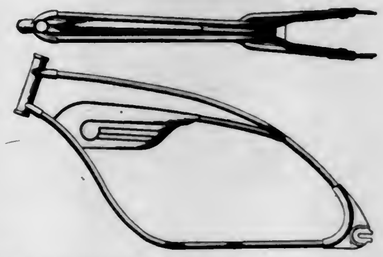
The ornamental design for a bicycle frame, as shown.

114,553
DESIGN FOR A BICYCLE FRAME
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 10, 1938, Serial No. 81,006
Term of patent 7 years



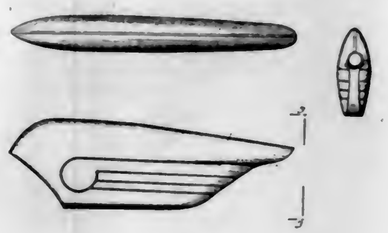
The ornamental design for a bicycle frame, as shown.

114,554
DESIGN FOR A COMBINED BICYCLE FRAME AND CONTAINER
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,202
Term of patent 7 years



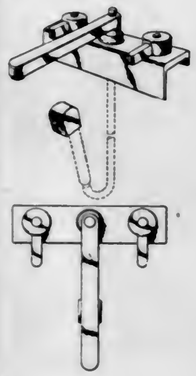
The ornamental design for a combined bicycle frame and container, as shown.

114,555
DESIGN FOR A CONTAINER TO BE MOUNTED ON A BICYCLE
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,203
Term of patent 7 years



The ornamental design for a container to be mounted on a bicycle, as shown.

114,556
DESIGN FOR A COMBINED FAUCET AND SPRAY FIXTURE FOR SINKS
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,213
Term of patent 7 years



The ornamental design for a combined faucet and spray fixture for sinks, as shown.

114,557
DESIGN FOR A BOTTLE
Ferdinand W. Nitardy, Brooklyn, N. Y., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
Application August 17, 1937, Serial No. 71,147
Term of patent 14 years



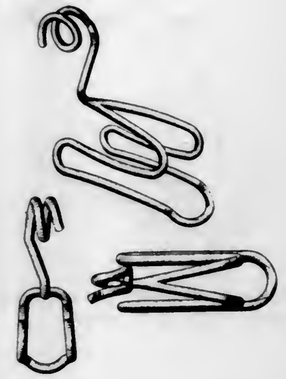
The ornamental design for a bottle, as shown and described.

114,558
DESIGN FOR A COMBINATION COMB HOLDER AND BRUSH
Mary Anna North, New York, N. Y., assignor to Celluloid Corporation, a corporation of New Jersey
Application February 23, 1939, Serial No. 83,157
Term of patent 14 years



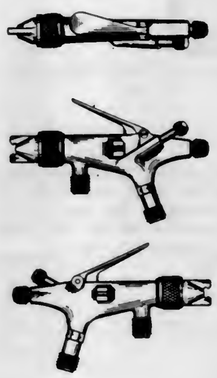
The ornamental design for a combination comb holder and brush, substantially as shown.

114,559
DESIGN FOR A GUIDE FOR AN ELECTRIC IRON CORD
Flora M. Pinska, Oakland, Calif.
Application August 13, 1938, Serial No. 79,302
Term of patent 14 years



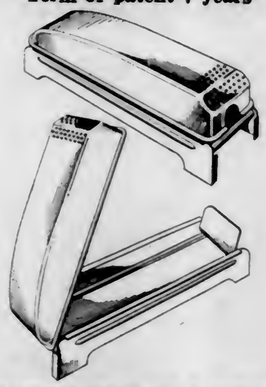
The ornamental design for a guide for an electric iron cord, substantially as shown.

114,560
DESIGN FOR A SPRAY GUN
Harold A. Roselund, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application March 1, 1939, Serial No. 83,279
Term of patent 7 years



The ornamental design for a spray gun, substantially as shown.

114,561
DESIGN FOR A PNEUMATIC PUMP HOUSING
Linus E. Russell, Springfield, Ohio
Application March 21, 1939, Serial No. 83,726
Term of patent 7 years



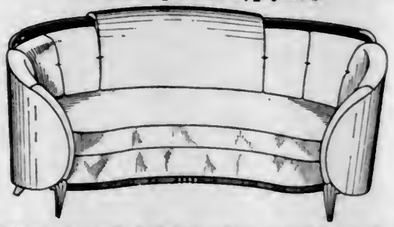
The ornamental design for a pneumatic pump housing, substantially as shown.

114,562
DESIGN FOR A CONDIMENT SHAKER
Frank J. Rusting, Oakland, Calif.
Application July 30, 1938, Serial No. 78,971
Term of patent 14 years



The ornamental design for a condiment shaker, substantially as shown.

114,563
DESIGN FOR A SOFA OR SIMILAR ARTICLE
Charles Stoll, New York, N. Y.
Application February 18, 1939, Serial No. 83,077
Term of patent 3½ years



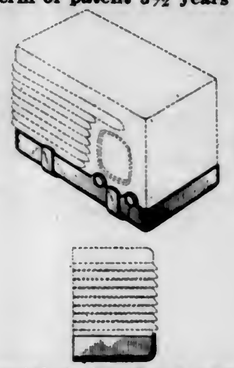
The ornamental design for a sofa or similar article, substantially as shown.

114,564
DESIGN FOR A CURTAIN ROD
Philip B. Stratton, Sturgis, Mich., assignor to Kirsch Company, Sturgis, Mich.
Application January 7, 1939, Serial No. 82,217
Term of patent 14 years



The ornamental design for a curtain rod, substantially as shown.

114,565
DESIGN FOR A RADIO CABINET
Anne Swainson, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application April 18, 1938, Serial No. 76,577
Term of patent 3½ years



The ornamental design for a radio cabinet, substantially as shown and described.

114,566
DESIGN FOR A THERMOPLASTIC TUBE OR SIMILAR ARTICLE
Glenn W. Tammen, Chicago, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application January 31, 1938, Serial No. 74,743
Term of patent 3½ years



The ornamental design for a thermoplastic tube or similar article, as shown and described.

114,567
DESIGN FOR A THERMOPLASTIC TUBE OR SIMILAR ARTICLE
Glenn W. Tammen, Chicago, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application January 31, 1938, Serial No. 74,744
Term of patent 3½ years



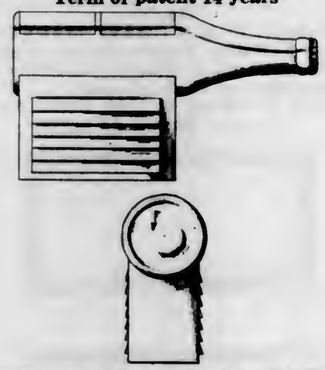
The ornamental design for a thermoplastic tube or similar article, as shown and described.

114,568
DESIGN FOR A TUMBLER
Jean Viatour, Soignies, Belgium, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 10, 1938, Serial No. 79,836
Term of patent 7 years



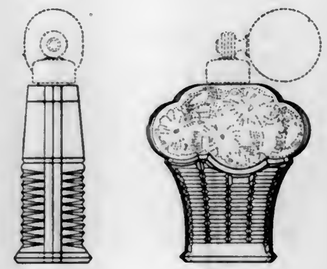
The ornamental design for a tumbler, substantially as shown.

114,569
DESIGN FOR A BOTTLE DISPENSING REFRIGERATOR OR THE LIKE
Boyce Malcolm Vise, Columbia, S. C., assignor of one-half to Samuel R. Coleman, Columbia, S. C.
Application August 31, 1938, Serial No. 79,657
Term of patent 14 years



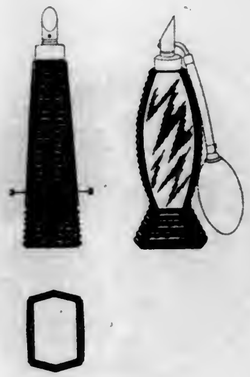
The ornamental design for a bottle dispensing refrigerator or the like, as shown.

114,570
DESIGN FOR A PERFUME ATOMIZER
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application March 9, 1939, Serial No. 83,479
Term of patent 3½ years



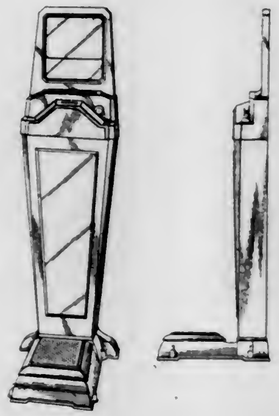
The ornamental design for a perfume atomizer, substantially as shown and described.

114,571
DESIGN FOR AN ATOMIZER
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application March 9, 1939, Serial No. 83,480
Term of patent 3½ years



The ornamental design for an atomizer, substantially as shown and described.

114,572
DESIGN FOR A SCALE
Burns S. Watling, Chicago, Ill., assignor to Watling Scale Company, Chicago, Ill., a corporation of Illinois
Application March 3, 1939, Serial No. 83,310
Term of patent 14 years



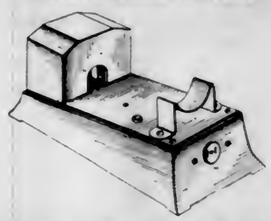
The ornamental design for a scale, substantially as shown.

114,573
DESIGN FOR A PLATE OR SIMILAR ARTICLE
John T. Wigley, Syracuse, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application September 27, 1938, Serial No. 80,117
Term of patent 14 years



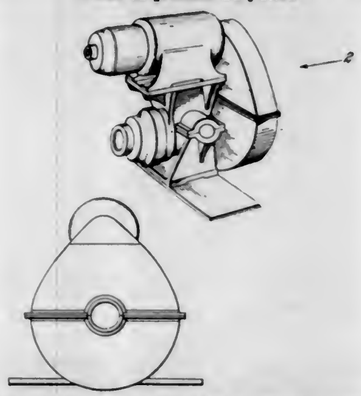
The ornamental design for a plate or similar article, substantially as shown.

114,574
DESIGN FOR A SOLDERING IRON STAND
Leonard P. Young, Chester, Conn.
Application December 12, 1938, Serial No. 81,720
Term of patent 14 years



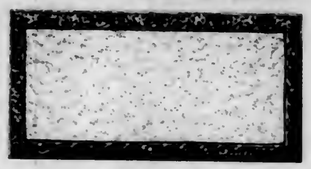
The ornamental design for a soldering iron stand, as shown and described.

114,575
DESIGN FOR A PIVOTAL DRIVE UNIT FOR CONVEYERS OR THE LIKE
Samuel I. Bousman, Denver, Colo., assignor to Colorado Iron Works Company, Denver, Colo., a corporation of Maine
Application July 18, 1938, Serial No. 78,552
Term of patent 14 years



The ornamental design for a pivotal drive unit for conveyers or the like, as shown.

114,576
DESIGN FOR A GRAVE MARKER
Frederick F. Florig, Pittsburgh, Pa., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 7, 1938, Serial No. 80,912
Term of patent 14 years



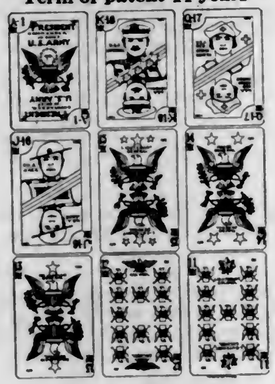
The ornamental design for a grave marker, as shown and described.

114,577
DESIGN FOR AN ELECTRIC CLOCK
Joseph Gottlieb, Jersey City, N. J.
Application November 21, 1938, Serial No. 81,259
Term of patent 7 years



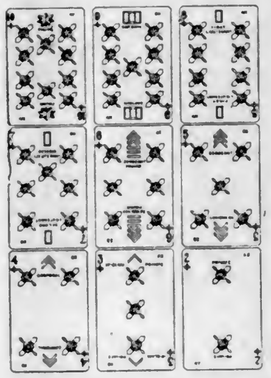
The ornamental design for an electric clock, as shown and described.

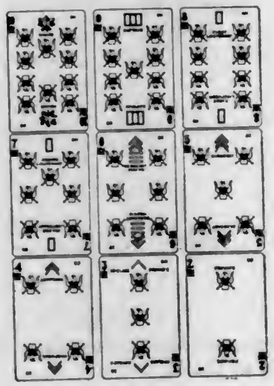
114,578
DESIGN FOR A DECK OF PLAYING CARDS
Otis E. Keene, New York, N. Y.
Application February 17, 1939, Serial No. 83,046
Term of patent 14 years

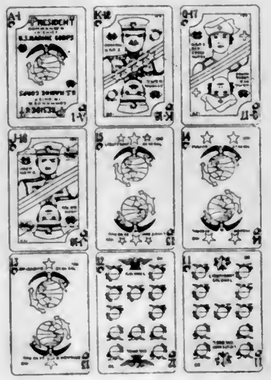


114,578—Continued

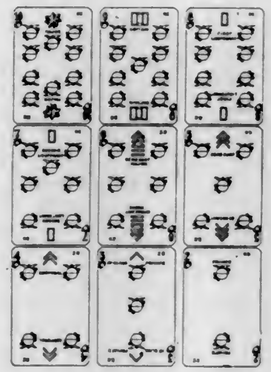


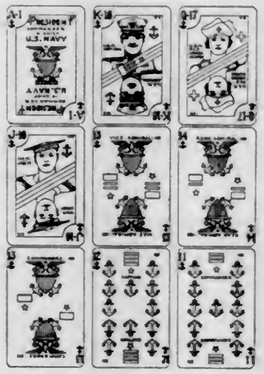


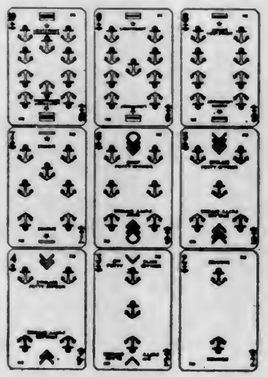




114,578—Continued

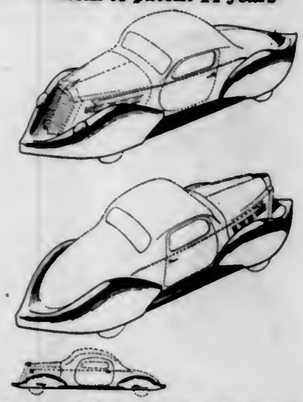






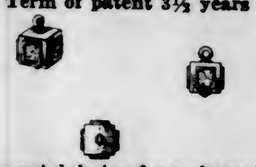
The ornamental design for a deck of playing cards, substantially as shown.

114,579
DESIGN FOR AN AUTOMOTIVE VEHICLE
Thomas Frank King, New Orleans, La.
Application August 4, 1938, Serial No. 79,108
Term of patent 14 years



The ornamental design for an automotive vehicle, as shown and described.

114,580
DESIGN FOR A CHARACTER BEARING HOLDER FOR NECKTIE HOLDERS OR THE LIKE
Lowell W. Shields, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application December 17, 1938, Serial No. 81,852
Term of patent 3½ years



The ornamental design for a character bearing holder for necktie holders or the like, as shown.

114,581
DESIGN FOR A DRESS ENSEMBLE
Clement Andre-Ani, St. Louis, Mo.
Application March 9, 1939, Serial No. 83,464
Term of patent 3½ years



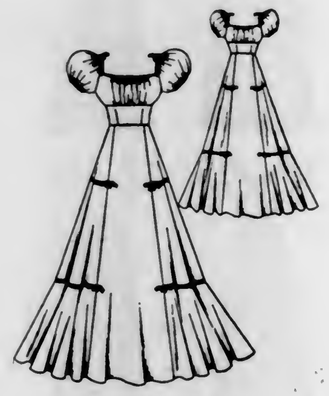
The ornamental design for a dress ensemble, substantially as shown.

114,582
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application March 25, 1939, Serial No. 83,833
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,583
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application March 25, 1939, Serial No. 83,835
Term of patent 3½ years



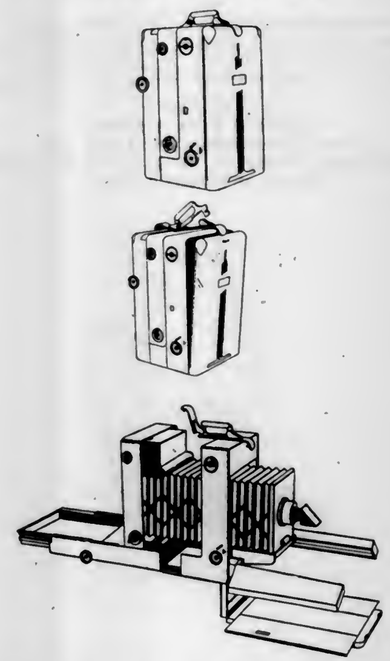
The ornamental design for a dress, substantially as shown.

114,584
DESIGN FOR A DRESS
Rose Feintuck, New York, N. Y.
Application March 25, 1939, Serial No. 83,832
Term of patent 3½ years



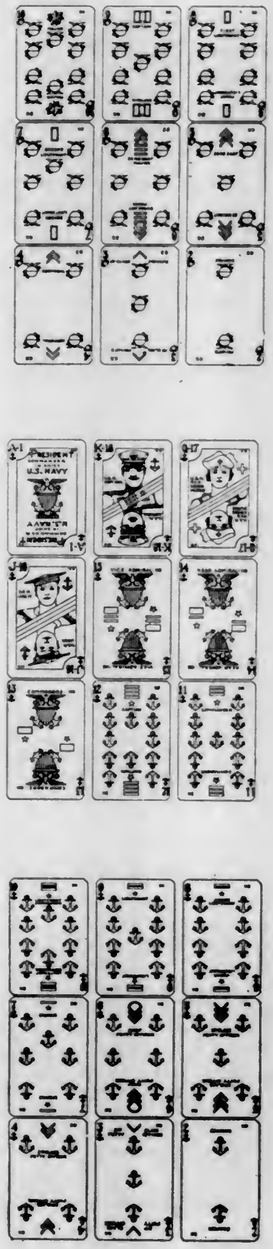
The ornamental design for a dress, substantially as shown.

114,585
DESIGN FOR A PORTABLE PHOTOCOPYING MACHINE
Robert H. Fullerton, St. Paul, Minn., assignor to Fullerton, Incorporated, St. Paul, Minn., a corporation of Minnesota
Application March 13, 1939, Serial No. 83,545
Term of patent 14 years



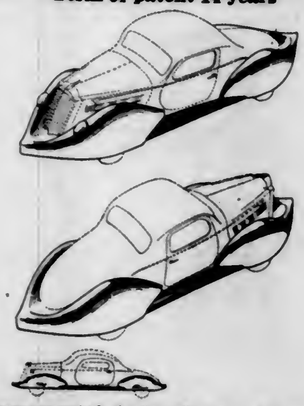
The ornamental design for a portable photocopying machine, as shown.

114,578—Continued



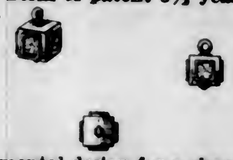
The ornamental design for a deck of playing cards, substantially as shown.

114,579
DESIGN FOR AN AUTOMOTIVE VEHICLE
Thomas Frank King, New Orleans, La.
Application August 4, 1938, Serial No. 79,108
Term of patent 14 years



The ornamental design for an automotive vehicle, as shown and described.

114,580
DESIGN FOR A CHARACTER BEARING HOLDER FOR NECKTIE HOLDERS OR THE LIKE
Lowell W. Shields, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application December 17, 1938, Serial No. 81,852
Term of patent 3½ years



The ornamental design for a character bearing holder for necktie holders or the like, as shown.

114,581
DESIGN FOR A DRESS ENSEMBLE
Clement Andre-Ani, St. Louis, Mo.
Application March 9, 1939, Serial No. 83,464
Term of patent 3½ years



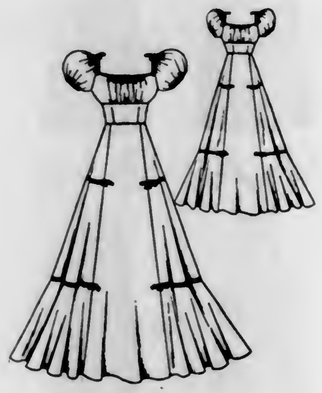
The ornamental design for a dress ensemble, substantially as shown.

114,582
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application March 25, 1939, Serial No. 83,833
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,583
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application March 25, 1939, Serial No. 83,835
Term of patent 3½ years



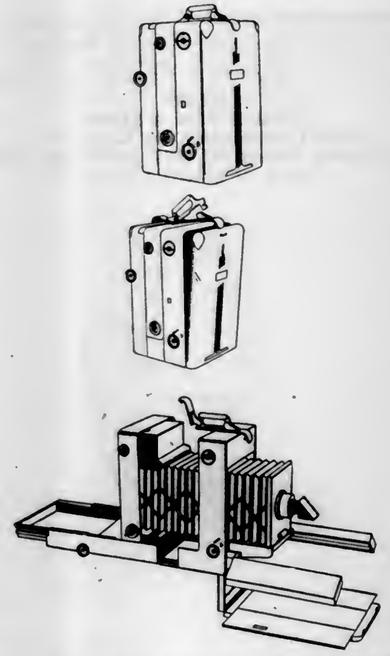
The ornamental design for a dress, substantially as shown.

114,584
DESIGN FOR A DRESS
Rose Feintuck, New York, N. Y.
Application March 25, 1939, Serial No. 83,832
Term of patent 3½ years



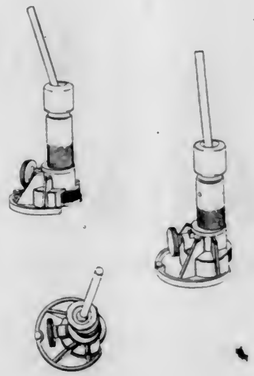
The ornamental design for a dress, substantially as shown.

114,585
DESIGN FOR A PORTABLE PHOTOCOPYING MACHINE
Robert H. Fullerton, St. Paul, Minn., assignor to Fullerton, Incorporated, St. Paul, Minn., a corporation of Minnesota
Application March 13, 1939, Serial No. 83,545
Term of patent 14 years



The ornamental design for a portable photocopying machine, as shown.

114,586
DESIGN FOR A RIDGE CUTTER FOR ENGINE CYLINDERS
Eliot D. Green, San Francisco, Calif.
Application June 7, 1937, Serial No. 69,710
Term of patent 14 years



The ornamental design for a ridge cutter for engine cylinders, substantially as shown.

114,587
DESIGN FOR A SHOE
Rose Gruensfelder, St. Louis, Mo.
Application March 24, 1939, Serial No. 83,804
Term of patent 7 years



The ornamental design for a shoe, as shown and described.

114,588
DESIGN FOR A COMBINED CARRIAGE AND SPACER GUIDE FOR MEAT SLICING MACHINES
Thomas L. Hand, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a corporation of Ohio
Application May 16, 1938, Serial No. 77,203
Term of patent 7 years

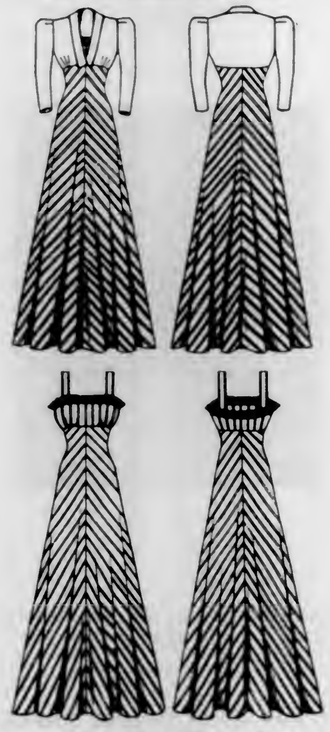
The ornamental design for a combined carriage and spacer guide for meat slicing machines, substantially as shown and described.

114,589
DESIGN FOR A DRESS ENSEMBLE
Leo Jacobson, New York, N. Y.
Application March 25, 1939, Serial No. 83,836
Term of patent 3½ years



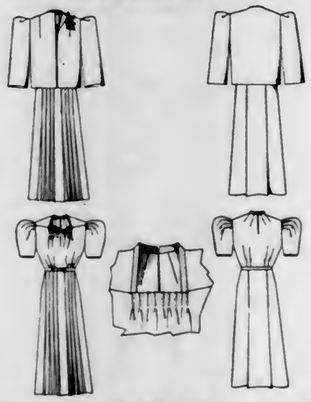
The ornamental design for a dress ensemble, substantially as shown.

114,590
DESIGN FOR A DRESS ENSEMBLE
Leo Jacobson, New York, N. Y.
Application March 25, 1939, Serial No. 83,837
Term of patent 3½ years



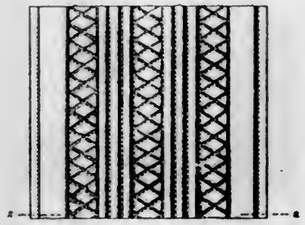
The ornamental design for a dress ensemble, substantially as shown.

114,591
DESIGN FOR A DRESS ENSEMBLE
Louis L. Kashine, New York, N. Y.
Application February 20, 1939, Serial No. 83,096
Term of patent 3½ years



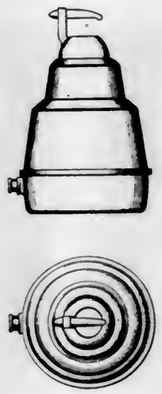
The ornamental design for a dress ensemble, substantially as shown and described.

114,592
DESIGN FOR A TEXTILE FABRIC
Samuel G. Krupka, Bridgeport, Conn., assignor to Ostermoor & Company, Inc., Bridgeport, Conn., a corporation of New York
Application February 3, 1939, Serial No. 82,764
Term of patent 7 years



The ornamental design for textile fabric, substantially as shown.

114,593
DESIGN FOR A SUCTION CLEANER
Ward Leathers, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y.
Application August 5, 1938, Serial No. 79,125
Term of patent 14 years



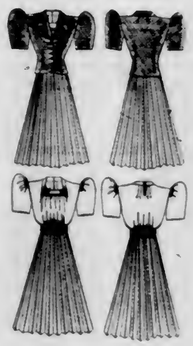
The ornamental design for a suction cleaner, substantially as shown and described.

114,594
DESIGN FOR AN EMBROIDERED TEXTILE FABRIC OR SIMILAR ARTICLE
Morris Leff, Brooklyn, N. Y.
Application March 15, 1939, Serial No. 83,583
Term of patent 3½ years



The ornamental design for an embroidered textile fabric or similar article, substantially as shown.

114,595
DESIGN FOR A DRESS ENSEMBLE
Helen Lentini, New York, N. Y.
Application March 10, 1939, Serial No. 83,486
Term of patent 3½ years



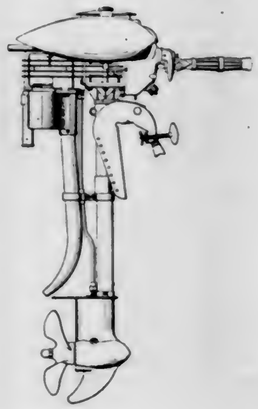
The ornamental design for a dress ensemble, substantially as shown.

114,596
DESIGN FOR A TEXTILE FABRIC
Aaron Levy, New York, N. Y.
Application March 20, 1939, Serial No. 83,694
Term of patent 3½ years

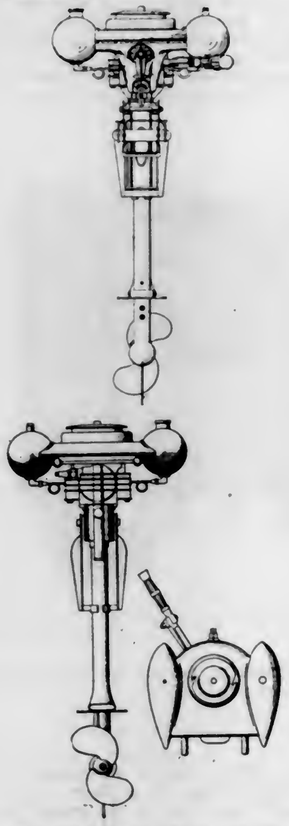


The ornamental design for a textile fabric, substantially as shown and described.

114.597
DESIGN FOR AN OUTBOARD MOTOR FOR BOATS
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application July 30, 1937, Serial No. 70,747
Term of patent 7 years

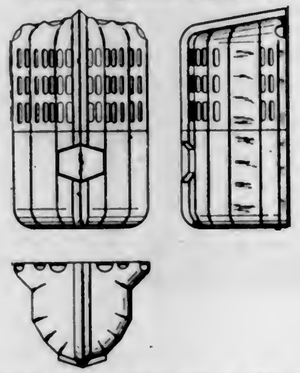


114,597—Continued



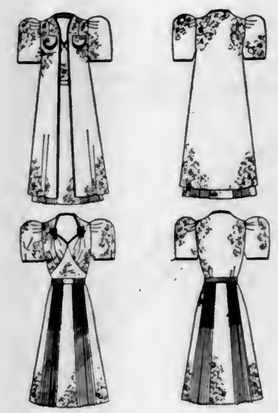
The ornamental design for an outboard motor for boats, substantially as shown.

114,598
DESIGN FOR A DISINFECTOR
Roy A. Myers, St. Paul, Minn.
Application February 27, 1939, Serial No. 83,221
Term of patent 3½ years



The ornamental design for a disinfector, as shown.

114,599
DESIGN FOR A DRESS ENSEMBLE
Harry Presser, New York, N. Y.
Application April 4, 1939, Serial No. 84,022
Term of patent 3½ years



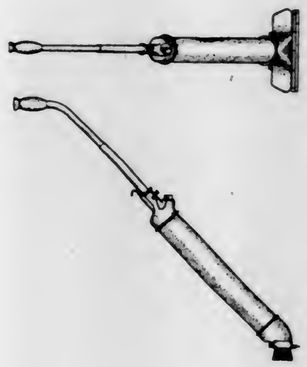
The ornamental design for a dress ensemble, substantially as shown.

114,600
DESIGN FOR A DRESS ENSEMBLE
Harry Presser, New York, N. Y.
Application April 4, 1939, Serial No. 84,023
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

114,601
DESIGN FOR A RUG CLEANING DEVICE OR SIMILAR ARTICLE
Samuel Rosen and Benjamin M. Hulsh, Chicago, Ill.
Application February 27, 1939, Serial No. 83,226
Term of patent 14 years



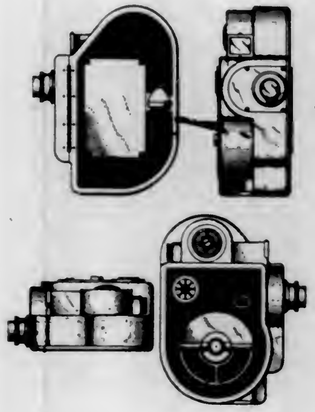
The ornamental design for a rug cleaning device or similar article, as shown.

114,602
DESIGN FOR A WEDDING GOWN
Murray J. Shapiro, New York, N. Y.
Application March 25, 1939, Serial No. 83,840
Term of patent 3½ years



The ornamental design for a wedding gown, substantially as shown.

114,603
DESIGN FOR A MOVING PICTURE CAMERA
Philmore F. Sperry, Chicago, Ill., assignor to Excell Auto Radiator Company, Chicago, Ill., a corporation of Delaware
Application August 26, 1938, Serial No. 79,575
Term of patent 14 years



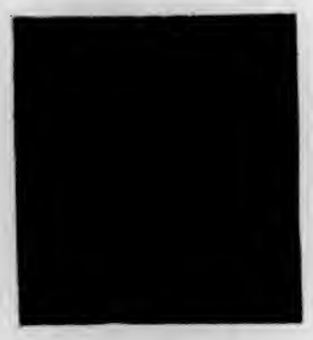
The ornamental design for a moving picture camera, as shown.

114,604
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application March 20, 1939, Serial No. 83,683
Term of patent 3½ years



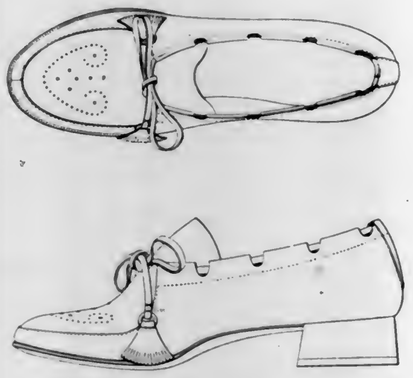
The ornamental design for a dress, substantially as shown.

114,605
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application March 25, 1939, Serial No. 83,829
Term of patent 3½ years



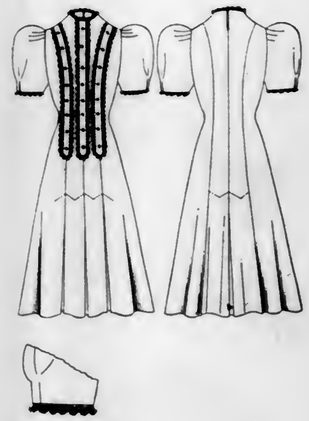
The ornamental design for a textile fabric or similar article, as shown.

114,606
DESIGN FOR A SHOE
Burton L. Wales, Abington, Mass., assignor to The Stetson Shoe Company, Incorporated, Weymouth, Mass., a corporation of Massachusetts
Application December 19, 1938, Serial No. 81,867
Term of patent 3½ years



The ornamental design for a shoe, substantially as shown and described.

114,607
DESIGN FOR A DRESS
Sam Windwer, New York, N. Y.
Application April 6, 1939, Serial No. 84,077
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,608
DESIGN FOR AN OVER-THE-SHOULDER HANDBAG
Louis J. Berman, Brooklyn, N. Y.
Application February 23, 1939, Serial No. 83,161
Term of patent 3½ years



The ornamental design for an over-the-shoulder handbag, substantially as shown and described.

114,609
DESIGN FOR A STOCKING
Samuel I. Burd, Philadelphia, Pa.
Application January 19, 1939, Serial No. 82,441
Term of patent 3½ years



The ornamental design for a stocking, as shown and described.

114,610
DESIGN FOR A DRESS
Robert Caine, New York, N. Y.
Application April 11, 1939, Serial No. 84,204
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,611
DESIGN FOR A COAT
Benjamin Chalk, New York, N. Y.
Application April 11, 1939, Serial No. 84,191
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

114,612
DESIGN FOR A COAT
Benjamin Chalk, New York, N. Y.
Application April 11, 1939, Serial No. 84,194
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

114,613
DESIGN FOR A CLIP OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 6, 1938, Serial No. 77,606
Term of patent 3½ years



The ornamental design for a clip or similar article, as shown.

114,614
DESIGN FOR A HAT
Julia S. Degnon, New York, N. Y.
Application December 2, 1938, Serial No. 81,522
Term of patent 14 years



The ornamental design for a hat, as shown and described.

114,615
DESIGN FOR A TEXTILE FABRIC
Theresa Emmerich, New York, N. Y.
Application March 20, 1939, Serial No. 83,710
Term of patent 7 years



The ornamental design for a textile fabric, substantially as shown.

114,616
DESIGN FOR A DRESS
Herbert M. Harris, New York, N. Y.
Application March 22, 1939, Serial No. 83,741
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,617
DESIGN FOR A TEXTILE FABRIC
Walter Hoegger, New York, N. Y.
Application March 8, 1939, Serial No. 83,410
Term of patent 3½ years



The ornamental design for a textile fabric, as shown.

114,618
DESIGN FOR A TEXTILE FABRIC
Walter Hoegger, New York, N. Y.
Application March 8, 1939, Serial No. 83,411
Term of patent 3½ years



The ornamental design for a textile fabric, as shown.

114,619
DESIGN FOR A TEXTILE FABRIC
Walter Hoegger, New York, N. Y.
Application March 8, 1939, Serial No. 83,412
Term of patent 3½ years



The ornamental design for a textile fabric, as shown.

114,620
DESIGN FOR A TEXTILE FABRIC
Walter Hoegger, New York, N. Y.
Application March 8, 1939, Serial No. 83,413
Term of patent 3½ years



The ornamental design for a textile fabric, as shown.

114,621
DESIGN FOR A TEXTILE FABRIC
Walter Hoegger, New York, N. Y.
Application March 8, 1939, Serial No. 83,414
Term of patent 3½ years



The ornamental design for a textile fabric, as shown.

114,622
DESIGN FOR A TEXTILE FABRIC
Walter Hoegger, New York, N. Y.
Application March 8, 1939, Serial No. 83,415
Term of patent 3½ years



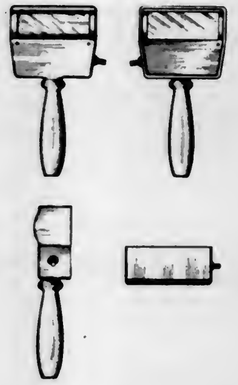
The ornamental design for a textile fabric, as shown.

114,623
DESIGN FOR A COAT OR SIMILAR ARTICLE
Charles Kanowitz, New York, N. Y.
Application April 12, 1939, Serial No. 84,228
Term of patent 3½ years



The ornamental design for a coat or similar article, substantially as shown.

114,624
DESIGN FOR A READING LAMP
Samuel Weldon Rosenthal, New York, N. Y.
Application March 7, 1939, Serial No. 83,400
Term of patent 7 years



The ornamental design for a reading lamp, as shown.

114,625
DESIGN FOR A HAT
Charles Rothenberg, New York, N. Y.
Application March 30, 1939, Serial No. 83,918
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

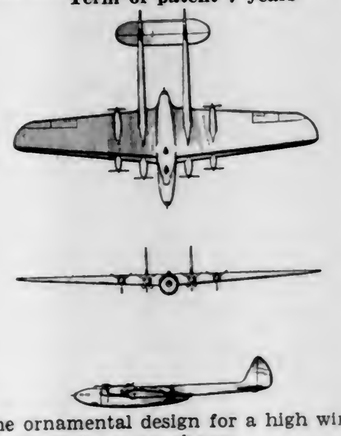
114,626

DESIGN FOR A HIGH WING CANTILEVER MONOPLANE

James G. Taylor, Dayton, Roscoe C. Wilson, Fairfield, and Oscar A. Swanson, Dayton, Ohio, assignors to Government of United States of America, as represented by Secretary of War, and his successors in office

Application July 31, 1935, Serial No. 57,883

Term of patent 7 years



The ornamental design for a high wing cantilever monoplane, as shown.

114,627

DESIGN FOR A DRESS AND SLIP ENSEMBLE

Phyllis Byrnes, New York, N. Y.

Application January 26, 1939, Serial No. 82,607

Term of patent 3½ years



The ornamental design for a dress and slip ensemble, substantially as shown and described.

Patents Nos. 2,157,091 to 2,158,049

THE

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May 9, 1939

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Labels	23—No.	52,945 to No.	52,967, inclusive.
Prints	5—No.	17,378 to No.	17,382, inclusive.
Reissues	4—No.	21,074 to No.	21,077, inclusive.
Patents	959—No.	2,157,091 to No.	2,158,049, inclusive.
Designs	113—No.	114,628 to No.	114,740, inclusive.
Total	1,477		

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,018,258, J. G. Hartley, Method of building up battered rail ends, decided March 2, 1939, claims 4 and 5.

Pat. 2,055,719, R. C. Fisher, Electrical musical instrument, decided February 13, 1939, claims 1, 2, 3, 7, 8, 9, 10, 24, 57, 59, 60, 66, 67, 68, 69, and 79.

Pat. 2,091,212, R. L. McNeil, Bottle and like package, decided April 20, 1939, claim 2.

Pat. 2,094,784, E. W. Bremer, Resistance welding electrode, decided March 28, 1939, claims 1, 2, and 5.

Disclaimer

1,660,536.—*Robert E. Walliser*, Chicago, Ill. MACHINE FOR MAKING AND APPLYING TUFTS AND THE LIKE. Patent dated February 28, 1928. Disclaimer filed April 15, 1939, by the patentee, the assignee, *Lewis G. Blessing*, assenting and concurring.

Hereby disclaims as invalid, claims 15, 16, 17, and 18 of said patent.

NOTICE

Board of Appeals—Decisions—Time for Response

U. S. PATENT OFFICE, *Washington, January 28, 1935.*

There appears to be some confusion among attorneys and applicants as to the time within which action must be taken in applications following a decision of the Board of Appeals.

The decision of the Board of Appeals is "an action" in the application, and, in order to save the application from abandonment, amendment must be filed within six months from the date of that decision unless an appeal has been taken to the Court of Customs and Patent Appeals or review of the decision sought by a bill in equity under section 4915.

The Examiner will not notify the applicant of the decision of the Board of Appeals.

CONWAY P. COE,
Commissioner.

Drawings

RULE 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

RULE 52—EXTRACT

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Applicant's Address

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Condition of Applications Under Examination at Close of Business April 22, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,688; Trade-Mark Division, 1,480. Oldest new case, Sept. 8, 1938; oldest amended, Sept. 12, 1938.)
(The dates given are 1938 except where † indicates 1939)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Nov. 35	Nov. 30	710
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 5	Nov. 1	664
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Mar. 1	†Feb. 23	287
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despetch.	†Jan. 23	†Jan. 6	427
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Jan. 24	†Jan. 24	551
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 12	Oct. 15	1142
5725	7. JARBOE, C. G., Optics; Photography	Dec. 21	Nov. 16	884
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Dec. 7	Aug. 15	891
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 21	Dec. 22	640
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Dec. 30	†Jan. 25	623
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 12	†Jan. 6	455
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Oct. 25	Oct. 12	630
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 12	Nov. 5	682
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Feb. 9	†Feb. 1	439
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 10	Dec. 10	1140
5716	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 7	Nov. 12	774
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 2	Oct. 31	482
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 12	Oct. 19	561
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	†Jan. 6	Dec. 10	440
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	†Jan. 3	Dec. 24	299
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	†Jan. 24	Dec. 30	500
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Dec. 16	Dec. 17	808
7624	23. BUTTNER, W. J., Registers (part)	Oct. 4	Sept. 22	285
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 24	Sept. 30	853
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 7	†Jan. 17	436
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Dec. 22	Dec. 22	614
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 20	Aug. 22	1036
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	†Jan. 5	Dec. 12	465
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Nov. 7	Nov. 8	637
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 7	Nov. 7	878
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	†Jan. 23	†Jan. 23	629
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Dec. 23	Dec. 1	424
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	†Jan. 9	Dec. 31	705
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	†Feb. 15	Dec. 16	301
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Dec. 31	Dec. 20	589
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Nov. 22	Nov. 4	537
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 19	Nov. 15	695
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Nov. 1	Nov. 10	596
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 27	†Jan. 23	505
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 25	Nov. 23	1413
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Nov. 26	Nov. 19	319
5882	42. CUTTING, H. O., Electric Signaling	Oct. 14	Oct. 14	620
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Dec. 5	Dec. 5	472
4087 B	44. HARVEY, L. P., Refrigeration	Nov. 10	Oct. 27	613
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Dec. 16	Dec. 19	622
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Dec. 1	Dec. 1	667
6082	47. LOWE, E. R., Clutches; Brakes	†Jan. 21	†Jan. 10	365
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Feb. 2	†Jan. 21	356
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 1	Sept. 22	993
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Oct. 22	Oct. 25	1192
5628	51. BACKUS, C. D., Radiant Energy (part)	†Jan. 17	†Jan. 17	689
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 9	Dec. 27	799
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	†Jan. 4	†Jan. 7	594
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 25	†Jan. 20	324
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Sept. 8	Sept. 12	831
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Nov. 15	Nov. 15	1100
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 20	Dec. 10	447
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	†Jan. 14	†Jan. 25	347
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	†Jan. 13	†Jan. 18	561
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Dec. 14	Dec. 15	445
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Nov. 9	Nov. 23	530
5621	62. PUGH, E. C., Games; Geometrical Instruments	†Jan. 23	†Jan. 26	415
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Dec. 10	Dec. 9	409
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Dec. 17	Dec. 17	874
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Nov. 7	Nov. 12	589
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†Mar. 18	†Apr. 4	1407
	{Labels and Prints	†Apr. 15	†Apr. 15	73
2605	Designs: H. H. KALUPY	†Mar. 7	†Apr. 1	858

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

KING *v.* YOUNG

No. 4,033. Decided December 27, 1938

[100 F.(2d) 663]

1. INTERFERENCE—CONSTRUCTION OF COUNTS—EXPRESS LIMITATIONS CANNOT BE IGNORED.

"It is elementary that the counts of an interference must be given the broadest construction that their language will reasonably permit, but that express limitations cannot be ignored."

2. SAME—REDUCTION TO PRACTICE—NO AWARD OF DATE EARLIER THAN DATE ALLEGED IN PRELIMINARY STATEMENT.

"While we agree with the Board that reduction to practice is established by appellee as of December, 1932, he may not be awarded a date earlier than the date alleged in his preliminary statement."

3. SAME—CONCURRING DECISIONS NOT DISTURBED UNLESS MANIFESTLY WRONG.

"It is well established that in interference cases concurring decisions of the Patent Office tribunals upon questions of fact will not be disturbed unless they are manifestly wrong."

4. SAME—PRIORITY.

Evidence reviewed and *Held* priority properly awarded the junior party Y upon the record made.

APPEAL from Patent Office. Affirmed.

Mr. Joseph M. King pro se.

Mr. Charles F. Murray (*Mr. Joseph H. Milans* of counsel) for Young.

LENROOT, *J.:*

This is an appeal in an interference proceeding wherein a single count forms the issue. The Examiner of Interferences awarded priority of invention to appellant. The Board of Appeals reversed this decision and awarded priority to appellee. From such decision appellant took this appeal.

The interference arises between an application of appellant filed on October 16, 1933, and an application of appellee filed on May 28, 1934. Appellee being the junior party, the burden was upon him to establish priority of invention by a preponderance of the evidence.

The count in issue reads as follows:

1. In combination, a casing having inlets for hot and cold fluids and an outlet for the mixed fluids, a pressure equalizing piston mounted in said casing and arranged to permit the delivery of a volume of hot and cold fluids in proportion to the relative pressures thereof, a thermostatic member in the outlet passage for the mixed fluids, and a proportioning valve operated by said thermostatic member for delivering a quantity of the respective hot and cold fluids in the proper proportions to maintain a predetermined temperature of the mixed fluids, the position of the equalizing element in the casing being such that the fluids must first pass that element before being intermixed.

As stated by the Examiner of Interferences,

The invention involved relates to a mixing valve for fluids such as may be used in connection with shower baths in which there is combined in a single casing a thermostatic type regulator, which is old and well-known in the art, with a pressure regulator which controls the flow of fluid into the thermostatic regulator in response to the pressure in either the hot or cold line to the end that the mixed fluid at the outlet of the device is maintained at a more uniform temperature than heretofore possible in spite of pressure fluctuations in the supply lines.

The preliminary statement of appellant alleged conception and disclosure to others of the invention on December 31, 1930, and its reduction to practice on March 18, 1931. Appellee in his preliminary statement alleged conception and disclosure to others of the invention on December 15, 1931, and its reduction to practice on January 13, 1933.

Both sides took testimony.

The issue before us involves the construction of a certain element of the count hereinafter discussed, and questions of fact respecting the conception and reduction to practice of the invention by the respective parties.

Before proceeding to a consideration of the questions involved we think it proper to make some observations with respect to appellant. Because of poverty, at no time has he been represented by counsel, and appellant has conducted personally the interference in his behalf. He personally argued the appeal before us. He does not profess to have any familiarity with patent law; in his brief he states that, prior to this proceeding, he had never heard of the term "reduction to practice", and upon oral argument before us stated that he was not aware that his own testimony regarding reduction to practice of the invention required corroboration in order to establish such reduction to practice. Appellant also feels outraged over the decision of the Board of Appeals, due to his ignorance of elementary principles of patent law, which the Board of course followed. The foregoing is not intended as any reflection upon appellant, for we are impressed with his honesty, and his conviction that he is the first inventor of the invention here involved. Had his case been conducted by an attorney familiar with patent law, this appeal probably would not have been before us. It was his misfortune that he was unable to employ counsel.

Because of appellant's unfamiliarity with patent law, his brief before us has been of little assistance, but we have carefully examined the record, giving thereto full weight and to all the testimony and proper inferences therefrom favorable to appellant; but of course we cannot render, nor does appellant ask that we render, a decision in his favor unless the same is warranted by the evidence in the record before us, and in accordance with established principles of law.

With these observations we proceed to a consideration of the merits of the case. We will first review the testimony and decisions of the Patent Office tribunals with respect to appellee's conception and reduction to practice of the invention.

Appellee testified that he was superintendent of the Powers Regulator Company, to whom his application has been assigned; that said company is engaged in the manufacture of temperature and pressure control apparatus, among which are controllers for mixing hot and cold water; that on or

about December 9, 1932, Mr. Powers, president of the Powers Regulator Company, brought him a letter which stated that trouble arose over the operation of certain controllers made by the Powers company and installed at the Pilgrim Hospital in Long Island, the cause of the trouble being pressure fluctuations; that thereupon appellee conceived the invention in issue and caused a device in accordance therewith to be constructed, which device was completed and successfully tested in December, 1932, and that the same was, on January 13, 1933, sent to said hospital.

Two witnesses, employees of the Powers Regulator Company, corroborated the testimony of appellee with respect to building and testing the controller. The device testified to was offered in evidence as Young Exhibit 6, and was before us for inspection.

This Exhibit 6 differs from the controller shown in the drawings of both appellant and appellee in that the cylinder carrying the equalizing piston in Exhibit 6 is installed transversely of the controller body, while in the applications the piston is shown as installed longitudinally or vertically relative to the controller casing; also, it appears from the testimony that the cylinder and equalizing piston of Exhibit 6 were originally made separately, and thereafter a portion of the controller casing was cut out and the cylinder, carrying the pressure equalizing piston, was set into the controller casing transversely and soldered, connecting ports having been made to the valve chamber of the controller body. The portion so set in projected through said opening so that a part of it was within the controller body. Exhibit 6 also contains a removable metal cover or shield extending over a portion of the controller body, apparently for the purpose of improving its appearance.

The testimony on behalf of appellee further shows that, following the manufacture and shipment of Exhibit 6, another controller of almost the same construction was built and shipped to Harrisburg, Pa., on June 16, 1933; that thereafter, after experimenting, the form of the controller was so changed that the pressure equalizing piston and cylinder were placed in the controller body in a vertical position, as shown in the application drawings, and that in the latter part of 1933 fifteen of the controllers of the vertical piston type were manufactured and shipped to Harrisburg.

In view of our conclusion that the building and testing of Exhibit 6 constituted a reduction to practice of the invention, we find it unnecessary to discuss the subsequent building and testing of other controllers embodying the invention.

With respect to this phase of the case the principal question is whether or not said Exhibit 6 responds to the elements of the count in issue.

The Examiner of Interferences held that it did not, and in his decision stated:

> The device, Exhibit 6, upon which Young relies principally for his reduction to practice, does not respond to the terms of the count in issue. The count calls for a casing having inlets for hot and cold fluids and an outlet for the mixed fluids; certainly the sheet metal shell which covers the central portion of the device of Exhibit 6 cannot be considered the casing as the openings therein through which the hot and cold water pipes pass are not inlets therefor in the commonly accepted meaning of this term. The term "inlet" is deemed to mean a passageway into the enclosure which is to retain or confine the fluid and the term is so used in the Young specification wherein the casting 10 is referred to as the casing. The outer shell of Exhibit 6 is not adapted to confine or retain the fluid. The same considerations are applicable to the term "outlet" which means a passage to carry away fluids from an enclosure. Thus it is seen that the casing must be the body into which the hot and cold pipes are threaded.
>
> The next limitation of the count is that the pressure equalizing piston is mounted in said casing. In Exhibit 6 the casing has an opening cut in it and a cylinder carrying the pressure equalizing piston is set in this opening so that it projects partly therein as shown in Exhibit 6a and is soldered in place. The cylinder is not part of the casing but is merely carried by the casing. The piston is in no sense enclosed or encompassed by the casing which carries the water inlets and outlet and hence cannot be considered as being in or mounted in said casing. The language obviously was to define the piston as being within the casting as shown in the application drawing on which the count properly reads. It also properly reads on the structure shown in King's application drawings in which the piston is mounted within the casting.

The Examiner of Interferences further held that appellee was not entitled to a date for conception of the invention prior to July 7, 1933, and that appellee had not established actual reduction to practice of the invention prior to appellant's filing date, October 16, 1933. The Examiner further found that appellant was entitled to the date of July 5, 1933, for conception of the invention, and to his filing date, October 16, 1933, for its constructive reduction to practice. Finding therefore that appellant was the first to conceive and the first to reduce the invention to practice, the Examiner awarded priority of invention to appellant.

The Board of Appeals reversed the decision of the Examiner of Interferences and awarded priority of invention to appellee, holding that Exhibit 6 does respond to the terms of the count and that it was manufactured and successfully tested in December, 1932. In its decision the Board stated:

> The Examiner has held that the device constituting Exhibit 6, upon which Young relies for his reduction to practice, does not respond to the terms of the count in issue. It is his position that the count calls for a casing having inlets for hot and cold fluids and an outlet for the mixed fluids and that the sheet metal shield which covers the central portion of the device of Exhibit 6 cannot be considered the casing as the openings therein through which the hot and cold water pipes pass are not inlets therefor in the commonly accepted meaning of this term.
>
> The Examiner further points out that the count is limited to say that the pressure equalizing piston is mounted in said casing. The Examiner of Interferences points out that in Exhibit 6 the casing has an opening cut in it and a cylinder carrying the pressure equalizing piston is set in this opening so that it projects partly therein, as shown in Exhibit 6a, and is soldered in place. It is considered by the Examiner of Interferences that the cylinder is not part of the casing but is merely carried by the casing, that the piston is in no sense enclosed or encompassed by the casing which carries the water inlets and outlet and hence cannot be considered as being in or mounted in said casing.
>
> We do not agree with the conclusions of the Examiner of Interferences as to the reading of the count on the structure of Exhibit 6. It is believed that, in substance, a cylinder set into the cut-out portion in the casing proper and soldered into position becomes a part of the casing and that the piston is mounted in the casing, according to the requirements of the count. It is not apparent that the sheet metal shield which covers the central portion of the device of Exhibit 6 is depended on by appellant or anyone to constitute the casing of the count nor is it believed necessary that it should be relied on for that purpose.

[1] We are in agreement with the above quoted views of the Board and can add little thereto. It is elementary that the counts of an interference must be given the broadest construction that their language will reasonably permit, but that express limitations cannot be ignored. The count does not require a vertical piston. Whether or not the term "mounted in" should be construed as meaning that the equalizing piston must be wholly within the casing of the controller body, we agree with the Board that when a part of the casing of the controller body was cut out and the cylinder carrying the equalizing piston was projected into said opening, said cylinder became in fact a part of the casing.

[2] The Board, however, accorded appellee a date of reduction to practice as of December, 1932, while the earliest date of reduction to practice alleged in appellee's preliminary statement is January 13, 1933. While we agree with the Board that reduction to practice is established by appellee as of December, 1932, he may not be awarded a date earlier than the date alleged in his preliminary statement. *Mitchell* v. *Morrison et al.*, 17 C. C. P. A. (Patents) 886, 38 F.(2d) 356, 395 O. G. 1139. We therefore hold that appellee is entitled to a date of conception as of December, 1932, and to January 13, 1933, for reduction to practice.

We next come to a consideration of the testimony on behalf of appellant with respect to his conception and reduction to practice of the invention as set forth in the count. It appears that appellant was employed as an engineer in charge of the experimental department of the Henry Ford Trade School at Detroit, Mich., and that while so employed there was assigned to him in 1928 the task of designing a temperature regulating device for rubber mills; that after some progress had been made in that work it was suggested that the principle upon which he was working might be adapted to a shower bath valve. Appellant testified, upon interrogatories propounded by himself, that by December 31, 1930, he had conceived the invention in issue. Appellant described the claimed invention of December 31, 1930, as follows:

> Q. 10. Describe the said original invention. A. The said invention is described correctly and explicitly by the said interference claim, devised and prescribed by the Examiner in an official action dated July 10, 1935, Case 71,126.
>
> The said invention, as disclosed in my application, filed October 16, 1933, Serial No. 693,845, is provided with means to cause the hot water to flow solely in response to the pressure of the cold water. The said original invention was not provided with such means.

Appellant testified that the invention was reduced to practice on March 18, 1931, but he did not testify as to how the device was constructed, other than to state that it conformed to the interference count. He did testify, however, that it was installed "on the students' lavatory" in the Henry Ford Trade School for general use. He did not testify with respect to the result of the test of the device. Appellant, being ignorant of the rules of evidence, may have thought that his preliminary statement was a part of the evidence in the case, and that it was not necessary for him to repeat in his deposition matters contained in his preliminary statement. In his preliminary statement he alleged that the device was built and was, on March 18, 1931, installed in said lavatory and successfully tested. Of course we may not consider as evidence in the case any portion of said preliminary statement. However, we think the testimony of his corroborating witnesses establishes that the device so installed in said lavatory was successfully operated, and if the device corresponded to the count before us, such test constituted a reduction to practice of the invention.

One of the exhibits in the record is No. 27, which appears to be a photostatic copy of Figures 1, 2, and 3 of the drawings of appellant's application.

A witness in behalf of appellant, one Bruno J. Chudy, testified that in 1930 and 1931 he was attending the Henry Ford Trade School and that, until about the middle of March, 1931, he was in appellant's department. He further testified as follows:

> Q. 6. Mr. Chudy, I have a print here (showing Exhibit 27). Did you work at that? Was it anything like that? A. Yes, this is it here (pointing to Exhibit 27).
>
> Q. 7. You say it was like that? What did it consist of? A. As far as I can remember, I know that we did have the coils comprised of two metals that I helped wind for this particular valve and we also had a cylinder that we had difficulty making. We made it out of two pieces, but later on, four or five months after I left the department, Mr. Remington made one out of a one-piece casting, which was quite an achievement and very valuable.
>
> Q. 8. Did this one you worked on have a piston valve like that one (indicating Exhibit 27)? A. Yes.
>
> Q. 9. Was the piston valve exactly like that or can't you remember? A. I can't remember—according to the print, no, although it does resemble this.
>
> Q. 10. What else did the valve have besides that piston and the thermostatic element you spoke of? A. I can't quite remember, but I do recall it had a sort of equalizing valve. As I remember your reading in your statement, at one time it wasn't bored at all.

He further testified that the device was installed in the students' lavatory sink and tested.

Another witness, one Remington, testified that he worked upon the device that was installed on the students' lavatory sink, about March, 1931. He further testified in part as follows:

> Q. 9. This drawing (showing Exhibit 27), was it like that? A. Yes, something like that.
>
> Q. 10. What was different? A. Well, our thermo control was down here at the bottom, underneath instead of at the side, and I believe we had one coil instead of three. I'm not sure, but I believe we did, and it was made out of a solid piece of stock—two separate pieces.
>
> Q. 11. Were they joined together? A. Yes, sir, we joined them together.

Robert Teeple testified that in 1930, 1931, and 1932 he had charge of the drafting room of the Ford Trade School, and that between July 4 and Labor Day in 1931 he made certain drawings for appellant from a blue print which was marked Exhibit 2. He further testified in part as follows:

> Q. 11. Did you ever go down into the experimental department before you did that drawing and see the one we had on the rack there? A. Several times, probably about once a week.
>
> Q. 12. What, if anything, did you see down there? A. I saw a sort of rough-looking valve, made in two pieces, and a couple of pipes sticking out from it.
>
> Q. 13. About what month was that? A. That was about April but you had it on there later; you kept it on there.

One Carl Boehnke testified that during the years 1930, 1931, and 1932 he was an instructor in the Henry Ford Trade School. He further testified in part as follows:

> Q. 4. Did you ever make a drawing of this valve or one something like it (showing Exhibit 27)? A. Similar to it.
>
> Q. 5. When did you make these drawings? A. After we moved from Highland Park.

Q. 6. About how long after you moved? A. Well, as I remember, we were working on those in Highland Park. I remember you were getting ready to move and it was between then——

Q. 7. Was it in 1930? A. We moved in 1930.

Q. 8. Was it in 1930 you made drawings of the valve? A. Yes, sir.

Q. 9. Did you ever see this on the rack? A. Yes, I did.

Q. 10. What did it look like? A. Well, it looked very crude—hand-make affair. Well, it was like two cylinders stuck together with a couple of pipes.

Q. 11. About when was that? A. That was between, as I remember, between Mr. Ebling's death and July.

Q. 12. You say you remember making these drawings from sketches in 1930 (showing Exhibit 27)?

Mr. MURRAY. I shall object to attempting to prove any date previous to December, 1930.

Q. 13. Did you make any drawings of this valve according to the interference claim, such as you see here? Did you do that or had completed it by December 31, 1930? A. Yes, sir.

Q. 14. Then you have seen that working on the rack? A. Yes.

Q. 15. Same invention you drew up, and you know what it was? A. Yes, I am familiar with it.

The witness Geisler testified to the successful operation of the device first built. Upon cross-examination he testified as follows:

Q. 1. Please describe the apparatus about which you have been testifying. Was it two separate units joined by pipes—one housing containing the pressure equalizing valve and the other unit containing the thermostatic and proportioning valve? A. When I first saw the device it was in two parts, but I would like to add that when I last saw it it was welded together. But of course I was criticizing the first because it was too bulky.

The witness Hollis testified that in 1930, 1931, and 1932 he was an instructor in the Henry Ford Trade School in the experimental department. He further testified as follows:

Q. 9. I revealed to you the invention, such as the pressure equalizing valve, the emitting or proportioning outlet valve, and thermostatic element—did I reveal that to you? A. Yes, sir.

Q. 10. About when? A. I would say before December 31, 1930.

Q. 11. Some of the work on the valve was done in your department? A. Yes, sir.

Q. 12. Did you see the valve at work? A. Yes, sir.

Q. 13. Do you remember the first valve, what it looked like? A. Yes, sir.

Q. 14. Describe that. A. It was composed of two pieces, machined, one holding the equalizer which was joined with two pieces of pipe to a larger piece holding the thermo-coil, which governed the proportioning valve.

Q. 15. To which does the water come first? A. To the equalizer.

Q. 16. About when was that that you saw it? A. I saw it before it was completed, before the death of Mr. Ebling, and I saw it after it was completed, soon after his death.

Q. 17. Do I understand you to say that those two pieces were joined together so as to form a casing? A. I always considered it a unit, but this first one was not a casting, it was made of two pieces machined and joined together.

Q. 18. Did you see the second one that we made? A. Yes, sir.

Q. 19. Was that a casting? A. Yes, all in one piece.

Q. 20. You considered the first one a unit? A. Yes, I considered it all one unit.

Q. 21. Are you interested in this concern? A. Yes, sir.

Q. 22. How much interest? A. One per cent interest.

Harry A. Smith testified that in 1930, 1931, and 1932 he was working in the Henry Ford Trade School, and further testified as follows:

Q. 3. Did you do any work on a shower-bath valve while you were there? A. Yes, I had charge of the lathe work. I did about all your lathe work from about May, 1929.

Q. 4. This valve that we were making—what did it consist of? A. The valve itself—I never had much to do with the construction—except to make the parts, all your pistons and small screws and small parts.

Q. 5. You have seen the valve? A. I have seen it on a test on the rack several times. I tried the valve on the rack, watching the pressure gauges, and washed my hands at the rack.

Q. 6. What did this valve consist of? A. It consisted of an equalizing pressure valve, proportioning valve, and thermostatic member in the mixing chamber.

Q. 7. How did the water enter? A. It first entered in the equalizing valve.

Q. 8. Did I reveal this to you and if so, when did I reveal it to you? A. The first time it was revealed to me was along about January, 1931. I had some pistons or parts which I delivered to you. Just after getting them there, you or Mr. Remington asked if I knew what they were, and I said no, and they said it was for a shower-bath and explained it. And I said it would be a good thing for a barber or beauty shop. I had heard different barbers complaining of people being burned by water.

Q. 9. That was January, 1931? A. Yes.

Q. 10. Did you see it at work on the sink? A. I saw it on the sink and also on the testing rack.

Q. 11. It was the same one you have described here? A. Yes.

Q. 12. This same one you saw was not a casting, not the first one? A. No.

Q. 13. How was it made? A. I just said it was pieces welded together.

Q. 14. So that it formed one unit? A. Yes.

Upon cross-examination the witness testified as follows:

Q. 2. Do I understand you made two separate castings? That is, you took a body of metal and bored it out for a cylinder and then you turned a piston to work in that cylinder? A. We made a piston for the job, turned up a piston from a sketch.

Q. 3. Did you join these two cylinders by pipe? A. That was done by Mr. Remington or the man on the bench.

It is apparent from the foregoing that the device successfully operated in March, 1931, consisted originally of two parts joined together by pipes, and we infer that, as installed upon the lavatory sink, the two parts were welded together, the pipes being dispensed with.

It is also clearly apparent that this device did not conform to the count before us. The pressure equalizing valve clearly was not "mounted in" the casing, nor did it form a part of the casing of the device. The valve was attached thereto first by pipes, and later by welding; but, unlike appellee's Exhibit 6, no part of the casing to which the cylinder containing the pressure equalizing valve was attached was cut out, and therefore the original casing was intact, while in Exhibit 6 a portion of the casing was cut away and the portion containing the pressure equalizing valve became a part of the casing, conformably to the count.

It may be that appellant's said device accomplished the same purpose as appellee's Exhibit 6. This we are not called upon to determine, for it is well established that in interference counts express limitations may not be ignored. *Stoeetland* v. *Cole*, 19 C. C. P. A. (Patents) 751, 53 F.(2d) 709, 415 O. G. 4.

Of course, the specific description of the construction of the device by appellant's witnesses overcomes the general statement of appellant that the device conformed to the count before us, for such statement was merely a conclusion upon his part.

We are therefore constrained to agree with the Patent Office tribunals that appellant has not established either conception or reduction to practice of the invention embraced in the count in or prior to March, 1931.

We next come to consider the evidence as to the date to which appellant is entitled for conception and reduction to practice of the invention. Upon this point we have concurring decisions of the Patent Office tribunals that appellant is not entitled to dates for conception or reduction to practice of the invention prior to January 19, 1933, the Examiner holding that appellant was entitled to a date as of July 5, 1933, for conception of the invention, and to his filing date, October 16, 1933, for a constructive reduction to practice, while the Board of Appeals held that in no event could appellant be given a date for conception earlier than January 19, 1933, and reduction to practice as of August 14, 1933, both of which dates are subsequent to the dates awarded by the Board to appellee for conception and reduction to practice of the invention, and subsequent to the date to which, we hold, appellee is entitled for reduction to practice under his preliminary statement.

[3] It is well established that in interference cases concurring decisions of the Patent Office tribunals upon questions of fact will not be disturbed unless they are manifestly wrong. *Beidler* v. *Caps et al.*, 17 C. C. P. A. (Patents) 703, 36 F.(2d) 122, 392 O. G. 241.

The first possible date that could be granted to appellant for conception of the invention conformable to the count is August 28, 1931, when application for patent, Exhibit 3a, was signed by appellant and notarized before a notary public. This application describes a device which seems to conform to the count in issue. The application, however, was never filed in the Patent Office. Appellant testified that a model was made which conformed to said application, and that it was tested on August 28, 1931. Two witnesses for appellant testified that a second model was made out of a one-piece casting, but there is no evidence in the record corroborating appellant's testimony that said second model was tested.

Upon the oral argument before us appellant stated that he did not know that the law required corroboration of his testimony with respect to actual reduction to practice to enable him to succeed. That such is the law is well established. *Janette* v. *Folds et al.*, 17 C. C. P. A. (Patents) 879, 38 F.(2d) 361, 395 O. G. 1136.

It is therefore plain that appellant has not established reduction to practice through the second model made by him.

Appellant further testified that a third model was made by him which conformed to the count, and that it was completed and installed by May, 1933; that the device was made from drawings dated January, 1933, and that it was successfully tested in Detroit in June, 1933, and again in August, 1933. This testimony is corroborated by one of appellant's witnesses. However, this reduction to practice occurred long after appellee had reduced the invention to practice, and as stated, if appellant be given the date of the drawings from which the third model was made, January 19, 1933, this was subsequent to the date of conception and reduction to practice of the invention by appellee.

Furthermore, if appellant be given the date of August 28, 1931, for conception of the invention, a reduction to practice by him in June, 1933, would avail him nothing, for the law required that, if he was the first to conceive the invention, he must have been diligent in reducing it to practice at and immediately before appellee entered the field in December, 1932.

There is no evidence whatever in the record, oral or documentary, of any activity upon the part of appellant in reducing the invention to practice during the year 1932.

[4] It thus appears that appellant cannot rely upon either of models two or three for reduction to practice of the invention, and the Board of Appeals was clearly right in awarding priority of invention to appellee upon the record made.

This opinion is much more extended than would have been necessary had appellant been represented by counsel, for in that event his counsel would not have made many of the contentions urged by appellant, to which we have given careful attention.

Appellant should understand that rules of law are necessary in the conduct of interference proceedings, and in the determination of the issues therein. Our jurisdiction in these proceedings is purely statutory, and we must decide the case upon the record made and certified to this court. This we have done.

For the reasons herein stated, the decision of the Board of Appeals is affirmed.

Affirmed.

State of New York, Appellate Division, Fourth Department

AMBROSE J. MCNAMARA, PLAINTIFF-RESPONDENT

v.

HERBERT S. POWELL AND POWELL MUFFLER CO., INC., SUCCESSOR TO POWELL MUFFLER CO., DEFENDANTS-APPELLANTS

Decided March 15, 1939

EMPLOYER AND EMPLOYEE—FRAUDULENT APPLICATION BY EMPLOYER—RIGHT OF EMPLOYEE TO RECOVER DAMAGES INCLUDING EXPENSES OF LITIGATION.

Where one employed as a salesman for a manufacturer of mufflers invented a muffler outside of his hours of employment and without the use of his employer's tools and materials and disclosed the invention to his employer who agreed to compensate him for mufflers made in accordance with the invention and the employer later, without knowledge or consent of the employee, fraudulently made application for patent in his own name and became involved in an interference with the employee in which priority finally was awarded to the employee and a patent was granted to the latter after proceedings in United States courts, *Held* the employer was not entitled to a shop right in the invention and *Held* that the employer should account to the employee for the profits realized from the sale of such mufflers from the date on which the employer "finally wrongfully appropriated the muffler" invented by the employee to the date on which the patent was issued to the employee, and that the employee "should recover the amount of such profits and also the amount expended or incurred by him in defending his right in the Patent Office, before the Board of Appeals and in the United States courts".

APPEAL by the defendants from an interlocutory judgment of the supreme court, in favor of the

plaintiff, entered in the office of the clerk of the county of Oneida, on the 31st day of August, 1938. Modified and affirmed.

Mr. Ambrose J. McNamara, plaintiff-respondent and attorney in person (*Mr. Ira M.* and *Mr. Donald J. Ball and Mr. Frank Keiper* of counsel).

Messrs. Hoguet, Neary & Campbell (*Mr. Worthington Campbell* and *Mr. Clarence E. Williams* of counsel), attorneys for defendants-appellants.

Before Hon. CHARLES B. SEARS, Presiding Justice, and Hon. HARLEY N. CROSBY, Hon. BENJAMIN B. CUNNINGHAM, Hon. MARSH N. TAYLOR, Associate Justices

CUNNINGHAM, *J.*:

The plaintiff was employed by the defendant Powell, who was engaged in the manufacture of automobile mufflers. The plaintiff in his complaint alleges that he thought of a new design for mufflers and in confidence explained the same to the defendant Powell.

The complaint asks for an injunction, restraining the defendants from manufacturing, using or selling a muffler made as designed by plaintiff, and for damages. The defendants moved to dismiss the complaint upon the grounds, first, that previous judgments had been granted which concluded the plaintiff from maintaining this action; second, that the Federal courts of the United States had exclusive jurisdiction of the subject matter of the action; third, that the cause of action is barred by the statute of limitations; fourth, that the complaint does not state facts sufficient to constitute a cause of action; fifth, that the plaintiff had previously elected to sue upon an alleged contract and may not now maintain an action upon fraud.

The complaint was dismissed at special term upon the ground of the conclusiveness of a former judgment. The order of dismissal was affirmed by the appellate division. The court of appeals reversed the order and denied the motion to dismiss the complaint (*McNamara* v. *Powell*, 273 N. Y. 408). The court of appeals in the opinion delivered by it discussed only the question of the conclusiveness of the former judgment. Still, it did deny the motion to dismiss the complaint. Consequently, it must have decided that the complaint stated facts sufficient to constitute a cause of action and that the other objections to the maintenance of the action were not tenable.

The defendants contend that the design of plaintiff for an improved automobile muffler was not new or novel but was old and had become public property. The plaintiff claims that the decree of the United States court is conclusive against the defendants upon this question.

It appears that on November 28, 1927, the defendant Powell filed an application in the Patent Office for a patent for an improvement in mufflers used to deaden the noise; that the plaintiff filed an application for a patent on the same improvement on January 18, 1928. After the Examiner of Interferences and the Board of Appeals in the Patent Office had awarded priority of invention to McNamara, a bill in equity was filed by Powell under section 4915 R. S. (35 U. S. C. A., sec. 63). In that suit the court had power to grant a patent (35 U. S. C. A., sec. 63) and was required to pass upon the patentability of the device. (*Palmer Pneumatic Tire Co.* v. *Lozier*, 90 Fed. 732; *Hill* v. *Wooster*, 132 U. S. 693; *Allbright-Nell Co.* v. *Autosteam Process Co.*, 70 F.(2d) 959; *International Signal Co.* v. *Vreeland Apparatus Co.*, 278 Fed. 468.) It was decided that McNamara was entitled to a patent and the decree directed that a patent issue to him. (*Powell* v. *McNamara*, 5 F. Supp. 628.) This decree was affirmed by the circuit court of appeals (74 F.(2d) 750). The United States court found that—

"the testimony shows that McNamara was the true, original inventor of the improvement in the muffler at issue herein within the meaning of the statute; that the same was not known or used before his invention or discovery thereof."

The decree of the court ordered, adjudged and decreed that—

"Ambrose J. McNamara is the true, first original and sole inventor of the invention set forth in the claims constituting the issue."

And further that—

"Ambrose J. McNamara is entitled to receive Letters Patent of the United States for his aforesaid invention, as specified in the before recited claims of his application."

Pursuant to this decree a patent was thereafter issued to McNamara.

The decisive test as to whether a judgment in one action is conclusive in a later one as between the same parties is whether the two causes of action have such a measure of identity that a different judgment in the second would destroy or impair rights or interests established by the first. (*Schuylkill Fuel Corp.* v. *Nieberg Realty Corp.*, 250 N. Y. 301, 306; *Hellstern* v. *Hellstern*, 279 N. Y. —, decided December 9, 1938.)

When sworn as a witness in this case Powell admitted that the muffler for which he made application for a patent was substantially the same as that for which a patent was granted to McNamara.

As Powell and McNamara filed applications at about the same time for a similar patent, it was apparent that one derived his idea from the other. (*Adamson* v. *Gilliland*, 242 U. S. 350.) Therefore, in determining the right to priority it was necessary for the United States court to make the following finding:

"That thereafter, and in the month of June or July, 1927, . . . Ambrose J. McNamara, explained to . . . Herbert S. Powell, the idea he had conceived for the improvement of a muffler."

Consequently, the defendant Powell is estopped from claiming that McNamara is not the original inventor of the improvement in the muffler and that his improvement is not patentable, and also from claiming that the idea for the improvement was not revealed by McNamara to Powell.

Plaintiff's idea and design for the improvement of automobile mufflers was revealed by him to defendant Powell in May, 1927, and it was arranged between them that Powell should test the same and that application should be made for a patent and that Powell should manufacture the same and should compensate McNamara for such mufflers manufactured by him. Powell cautioned McNamara not to reveal his idea to anyone.

In July, 1927, Powell began the manufacture of mufflers which embodied the idea for improvement conceived by McNamara.

On November 28, 1927, Powell filed an application for a patent without the knowledge or consent of McNamara. This act vitiated the previous arrangement between the parties and was an appropriation of the rights of McNamara in the improved muffler invented by him. The muffler described in this application was substantially the same in design as that for which McNamara was thereafter granted a patent. Powell and McNamara met in December, 1927, and discussed the matter of this invention. Powell was unwilling to pay McNamara a sum acceptable to the latter, and plaintiff quit his job.

Thereafter, in proceedings in the Patent Office and before the Board of Appeals and in the United States district court and United States circuit court of appeals, Powell claimed that he was the sole and original inventor of the design of muffler invented by McNamara. The courts held that Powell was trying to secure a patent on an improved muffler which had been invented and designed by McNamara.

It thus appears that Powell acquired knowledge of McNamara's idea and design for an improved muffler in confidence and promised to pay McNamara for the mufflers he manufactured and that afterwards he wrongfully appropriated the same to his own use and to the use of the defendant, Powell Manufacturing Co., and that defendants manufactured and sold mufflers embodying the idea and design conceived by McNamara and claimed that McNamara did not have any interest in such mufflers and had not invented the same and wrongfully embroiled the plaintiff in litigation and during the pendency of such litigation continued to manufacture and sell mufflers of the design invented by McNamara and refused to account to McNamara for the profits realized therefrom.

The decree of the United States district court was granted on the 11th day of December, 1933. Thereafter, on the 16th day of December, 1934, the defendant, Powell Muffler Co., Inc., was incorporated and the defendant Powell turned over to it all the business and assets of the company owned by him, known as the Powell Muffler Co. The defendant Powell is president and general manager of such corporation and owns 480 of the 500 shares of stock thereof, 10 of the remainder being held by his wife and the other 10 by his secretary. Of course, Powell by incorporating his business did not secure the right to again litigate questions decided adversely to him by the United States court. Powell will not be permitted to use the corporate cloak as a means to avoid the finality of the former adjudication to which he was a party. (*Conviser* v. *Brownstone & Co.*, 209 App. Div. 584; *Quaid* v. *Ratkowsky*, 183 App. Div. 428, 432, affd. 224 N. Y. 634; *U. S.* v. *Milwaukee Refrigerator Transit Co.*, 142 Fed. 247.)

The defendant corporation must be deemed to have been in privity with Powell and, therefore, the decision of the United States court is binding upon it also. (*Warford Corp.* v. *Bryan Screw Machine Products Co.*, 44 F.(2d) 713.)

The defendants claim that they are entitled to use McNamara's invention by virtue of a shop-right. It appears that McNamara was a salesman for the defendant-corporation and was not employed in the factory; that he conceived the idea of the improvement outside of his hours of employment and did not use the defendants' tools and materials in conceiving and perfecting his invention. Therefore, the defendants are not entitled to a shop-right. (*U. S.* v. *Dubilier Condenser Corp.*, 289 U. S. 178, 188.)

The defendants claim that the plaintiff has not the right to recover expenses of litigation. The defendants are liable for the damages they have caused plaintiff by their wrongdoing. They are "responsible for the natural and proximate consequences" of their misconduct. (*Ehrgott* v. *Mayer*, 96 N. Y. 264, 281, 282.)

The damages which the defendants from their position must have considered likely as the probable result of their fraud may be recovered. (*Smith* v. *Bolles*, 132 U. S. 125.)

In this case the defendants attempted to deprive the plaintiff of his invention and as a part of such scheme an application for a patent thereon was filed by the defendant Powell, and the defendants well knew that such act would probably result in litigation and it may fairly be inferred that the defendants realized that such litigation would be so expensive that the plaintiff might find it difficult to raise the money to carry it on. Under such circumstances, because of their fraud, the defendants should be held responsible for the fees and expenses of litigation incurred by the plaintiff as a result of their fraudulent acts. The cases cited by defendants do not apply to the facts in this case, in which the litigation into which plaintiff was plunged was the direct result of the acts of the defendants and was undoubtedly intended to be the result of such acts.

The plaintiff is entitled to recover the fees and expenses expended and incurred by him in defending his right to the invention and to Letters Patent thereon. (*Cooper* v. *Weissblatt*, 154 Misc. 522; *Nearing* v. *Hathaway*, 128 App. Div. 744; *Muller* v. *Rosenblatts*, 157 App. Div. 513.

The defendants should account to plaintiff for the profits realized from the sale of such mufflers from November 28, 1927, the date on which defendants finally wrongfully appropriated the improved muffler invented by McNamara, to February 23, 1937, the date on which the patent was issued to McNamara, and plaintiff should recover the

amount of such profits and also the amount expended or incurred by him in defending his right to a patent in the Patent Office, before the Board of Appeals and in the United States courts. The judgment should be modified in accordance herewith, and, as modified, affirmed with costs.

Modified and affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,405,633, M. O. Smith, Fuel vaporizer for carburetors, filed Feb. 23, 1939, D. C., E. D. Mich., S. Div., Doc. 669, *The Gasifier Mfg. Co.* v. *Packard Motor Car Co.*

1,467,354, N. C. Christensen, Process of concentrating oxidized ores and minerals, C. C. A., 3d Cir., Doc. 6552, *Southern Phosphate Corp.* v. *Phosphate Recovery Corp.* Patent held not infringed Feb. 14, 1939.

1,470,524, H. B. Burt, Process of making frozen confections; 1,718,997, same, Frozen confections, filed (notice Jan. 13, 1939), D. C., District of Columbia, Doc. 1819, *Good Humor Corp. of America* v. *L. W. High.*

1,475,980, O. Zerk, Lubricating apparatus, C. C. A., 3d Cir., Doc. 6350, *Stewart-Warner Corp.* v. *G. S. Rogers.* Doc. 6351, *Stewart-Warner Corp.* v. *Universal Lubricating Systems, Inc., et al.* Patent held invalid Feb. 9, 1939, in both cases.

1,489,833, G. M. Keller, Method of operating upon printed webs, D. C., W. D. N. Y., Doc. 2180, *G. M. Keller* v. *American Sales Book Co., Inc.* Judgment for defendant Feb. 28, 1939.

1,585,233, J. W. Coast, Jr., Process of continuously distilling and cracking hydrocarbons, D. C., N. D. Ill., E. Div., Doc. 8560, *Empire Refineries, Inc.*, v. *Universal Oil Products Co.* Bill dismissed without prejudice Jan. 26, 1939.

1,589,248, A. H. Sexton, Hair curling and waving device, filed Mar. 4, 1939, D. C., S. D. N. Y., Doc. 2/469, *Girard Trust Co. et al.* v. *Schwartz-Gilbert Co., Inc.*

1,598,991, W. Strauss, Vanity and compact case, suit for declaratory judgment filed Mar. 1, 1939, D. C., S. D. N. Y., Doc. 2/445, *Zeil Products Corp.* v. *Rex Products Corp. et al.*

1,683,341, Foresman & Larrabee, Stoker, filed Feb. 13, 1939, D. C., W. D. Ky. (Louisville), Doc. 44, *Westinghouse Electric & Mfg. Co.* v. *J. G. Hesser.*

1,718,997. (See 1,470,524.)

1,723,603, J. W. Chesney, Process of sterilization and food activation, D. C., N. D. Ill., E. Div., Doc. 14945, *New Discoveries, Inc.*, v. *Cherry Burrell Corp.* Dismissed on motion of plaintiff Feb. 13, 1939.

1,770,368, E. G. Fahlman, Mold, D. C., N. D. Ohio, E. Div., Doc. E 4187, *The Permold Co.* v. *The National Bronze & Aluminum Foundry Co.* Claims 3 and 4 held valid and infringed, injunction Feb. 21, 1939.

1,870,119, G. A. Hughes, Airplane, D. C., Nebr. (Lincoln), Doc. 5, *G. A. Hughes* v. *Boeing Aircraft Co.* Dismissed Feb. 20, 1939.

1,893,025, Gregory & Comings, Electromotor, filed Feb. 18, 1939, D. C., S. D. N. Y., Doc. 2/386, *E. E. Gregory et al.* v. *Royal Typewriter Co., Inc., et al.*

1,916,943, B. E. Beadle, Hair former, D. C., E. D. N. Y., Doc. E 7769, *B. E. Beadle* v. *F. W. Woolworth Co.* Decree for plaintiff Feb. 23, 1939.

1,947,493, Rose & Engle, Coating of machine elements, filed Feb. 16, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 243–C, *Metals Processing Corp. et al.* v. *Metallizing Co. of America et al.*

1,952,230, G. V. Anderson, Automatic profile milling machine, filed Mar. 3, 1939, D. C., E. D. Mich., S. Div., Doc. 758, *The Cincinnati Milling Machine Co.* v. *E. L. Wall et al.*

1,968,008, Chapman & Littleford, Concentration of minerals, C. C. A., 3d Cir., Doc. 6498, *Southern Phosphate Corp.* v. *Phosphate Recovery Corp.* Patent held valid and infringed Feb. 14, 1939.

1,999,669, M. J. Smith, Purse kit, D. C., S. D. N. Y., Doc. E 87/246, *M. J. Smith* v. *Dora May Co., Inc.* Consent decree for plaintiff (notice Feb. 23, 1939).

2,011,484, H. W. Harman, Method for repairing castings, D. C., Ariz. (Phoenix), Doc. 15, *H. W. Harman* v. *J. J. Hughes et al.* Decree for plaintiff, injunction Feb. 21, 1939.

2,052,221, W. J. Dubil, Method of preparing fresh meat, filed Feb. 17, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 247–C, *W. J. Dubil et al.* v. *D. Landau et al.* (*Eastern Tenderized Steak Co.*).

2,062,001, G. C. Grenier, Tobacco pouch, filed Mar. 6 1939, D. C., S. D. N. Y., Doc. 2/475, *G. C. Grenier et al.* v. *Leatherwear Co., Inc., et al.*

2,070,038, H. H. Batt, Producing smoke and fog effects, filed Feb. 28, 1939, D. C., S. D. Calif., C. Div., Doc. RJ–258, *H. H. Batt* v. *United Artist Studio, Ltd., et al.*

2,075,695, A. Bodmer, Parchmentized fabric and process of producing same (declaratory judgment), D. C., S. D. N. Y., Doc. E 86/345, *Aktien-Gesellschaft Cilander* v. *Heberlein Patent Corp.* Dismissed on consent Feb. 24, 1939.

2,095,223, A. O. Samuels, Fan, filed Mar. 1, 1939, D. C., Conn. (New Haven), Doc. 101, *Samson-United Corp.* v. *Casco Products Corp.*

2,107,216, H. L. Rogers, Receptacle and closure therefor, filed Feb. 24, 1939, D. C., S. D. N. Y., Doc. 2/412, *Rogers Imports, Inc., et al.* v. *Excel Merchandise Co., Inc.*

2,114,718, S. J. Levy, Two way intercommunicating loud speaker system for power circuits, filed Feb. 24, 1939, D. C., S. D. N. Y., Doc. 2/422, *International Carrier Call & Television Corp.* v. *R. C. A.*

2,129,491, L. Schilson, Locket, filed Feb. 20, 1939, D. C., R. I., Doc. 15, *J. M. Fisher Co.* v. *Speidel Corp.*

2,133,167, M. Gursky, Couch bed, filed Mar. 6, 1939, D. C., E. D. N. Y., Doc. 245, *M. Gursky* v. *H. Ruchlin et al.*

Re. 19,929, G. Slayter, Method of heat insulating, D. C., Md., Doc. E 2538, *Slayter & Co.* v. *General Insulation, Inc.* Patent held valid and infringed Feb. 10, 1939.

Re. 19,956, T. W. Rieke, Fitting for containers, D. C., N. D. Ill., E. Div., Doc. 15174, *Rieke Metal Products Corp.* v. *Barrel Fitting & Seal Corp. of America.* Dismissed for want of equity (claims 2, 3, 4, 6, 7, 10, and 14 held not infringed, and claims 15 to 18 held invalid) Oct. 22, 1937. Mandate affirming lower court Dec. 23, 1938.

Des. 78,500, R. L. Barton, Combined wash board and laundry tray, D. C., S. D. Calif. (Los Angeles), Doc. 160–C, *R. L. Barton et al.* v. *Wash-Eljer Co. et al.* Consent decree for plaintiffs, holding patent valid and infringed; injunction Mar. 6, 1939.

Des. 87,840, C. R. Kirk, Amusement machine cabinet, D. C., N. D. Ill., E. Div., Doc. 12418, *C. R. Kirk* (*Standard Games*) v. *K. Wilkerson* (*Brunswick Mfg. Co.*). Dismissed on motion of plaintiff Feb. 13, 1939.

Des. 100,163, V. T. Howard, Cravat holder, D. C., S. D. N. Y., Doc. E 83/204, *Swank Products, Inc.*, v. *Brown & Lester, Inc.* Dismissed without prejudice (notice Mar. 6, 1939).

Des. 101,864, H. Felmann, Lady's hand bag, D. C., S. D. N. Y., Doc. E 86/377, *Morris, Mann & Reilly, Inc.*, v. *Strand Leather Goods Co., Inc.* Consent order of discontinuance (notice Mar. 2, 1939).

Des. 105,691, D. C. Cahalane, Toy vacuum sweeper (declaratory judgment), D. C., S. D. N. Y., Doc. E 86/130, *Woodhaven Metal Stamping Co., Inc.*, v. *The Hoge Mfg. Co., Inc.* Consent order of discontinuance (notice Feb. 24, 1939).

Des. 105,849, Dutrow & Mitchell, Combined shredder, slicer and peeler, D. C., S. D. Ohio, W. Div., Doc. E 1065, *M. B. Dutrow et al.* v. *The Bromwell Wire Goods Co.* Dismissed with prejudice Mar. 1, 1939.

Des. 105,982, E. Cutler, Dress, D. C., S. D. N. Y., Doc. E 85/342, *Lee Claire Costumes, Inc.*, v. *J. Annunziata et al.* (*Adeline Modes*). Order dismissing cause for lack of prosecution (notice Feb. 20, 1939).

Des. 106,525, P. Wood, Dress, D. C., S. D. N. Y., Doc. E 87/374, *Debutante Frocks, Inc.*, v. *Adelaar Bros., Inc.* Consent order of discontinuance Feb. 20, 1939.

Des. 106,555, N. Abelson, Dress, D. C., S. D. N. Y., Doc. E 86/99, *B. Ginsburg et al.* v. *Atlas Half-Size Dress Co., Inc.* Dismissed (notice Feb. 21, 1939).

Des. 106,929, D. Rosenthal, Dress, D. C., S. D. N. Y., Doc. E 86/83, *Rosenthal & Kalman Co., Inc.*, v. *Irving Stempel & Co., Inc.* Consent order of discontinuance (notice Mar. 3, 1939).

Des. 106,944, P. Fracchia, Dress, D. C., S. D. N. Y., Doc. E 86/81, *Rosenthal & Kalman Co., Inc.*, v. *Schore-Silverstein, Inc.* Consent order of discontinuance (notice Feb. 24, 1939).

Des. 107,492, R. Schultze, Dress, D. C., S. D. N. Y., Doc. E 86/166, *Schultze-Zuch Co., Inc.*, v. *Columbia Dance Frocks, Inc.* Dismissed (Feb. 17, 1939).

Des. 108,468, G. Verrecchio, Brooch pin, filed Feb. 18, 1939, D. C., S. D. N. Y., Doc. 2/385, *Coro-Gram, Inc.*, v. *A. Brooks et al.*

Des. 112,546, S. Babus, Coat, filed Mar. 3, 1939, D. C., S. D. N. Y., Doc. 2/466, *S. Babus* v. *Versailles Garment, Inc.*

Des. 112,553, L. Hafler, Blouse, filed Feb. 14, 1939, D. C., S. D. N. Y., Doc. 2/357, *S. S. Rice, Jr., et al.* (*Tailor-Maid Blouses*) v. *Mitchell & Weber, Inc.*

Des. 113,481, A. Schwartz, Dress ensemble, filed Feb. 27, 1939, D. C., S. D. N. Y., Doc. 2/429, *Ashley Frocks, Inc.*, v. *Jay Lane Frocks, Inc.*

T. M. 204,307, Renaud et Cie of America, Perfumery, germicides, air purifiers, incense, and insect exterminator, appeal filed Jan. 14, 1939, C. C. A., 1st Cir., Doc. 3425–3426, *Renaud Sales Co., Inc.*, v. *J. H. Davis* (*Renaud, et Cie*).

Changes in Classification

Order No. 3,466, April 18, 1939, directs:

In *class 56, Harvesters* (Division 5), establish the following subclass and definition:

27.5 **Tobacco.**

27.5. Devices used in harvesting tobacco and not elsewhere classified.

Note.—For devices for stringing tobacco upon hangers or unstringing it therefrom, see class 214, MATERIAL OR ARTICLE HANDLING, subclass 5.5.

The patents contained in this subclass have been taken for the most part from class 131, Tobacco, subclass 21, abolished in this order.

In *class 68, Textiles, Fluid Treating Apparatus* (Division 27), change the title and definition of subclass 136 to read:

Machines
Dragging
136 Oscillatory or rotary on vertical axis.

136. Machines of the type set forth in subclass 135 in which the drag is mounted to oscillate or rotate on a vertical axis.

In *class 131, Tobacco* (Division 2), abolish the following subclass:

21 **Tobacco hangers.**

The patents formerly contained in this subclass have been placed for the most part in class 56, Harvesters, subclass 27.5, class 214, Material or Article Handling, subclass 5.5, and class 294, Handling, Hand and Hoist Line Implements, subclass 5.5, all established in this order.

In *class 206, Special Receptacles and Packages* (Division 40), abolish the following subclass with its definition:

Receptacles
Pocket and personal use
Cigars and tobacco
41.6 With humidor.

The patents formerly contained in this subclass have been placed for the most part in class 312, Supports, Cabinet Structures, subclasses 31, 31.1, 31.2, and 31.3, established in this order.

In *class 214, Material or Article Handling* (Division 4), establish the following subclass and definition:

Piling or arranging apparatus
5.5 Tobacco stringers or unstringers.

5.5. Devices for use in stringing tobacco leaves or hands upon sticks, hangers or other handling devices, and/or for unstringing tobacco therefrom.

(1) Note.—For such devices combined with harvesting apparatus, see class 56, HARVESTERS, subclass 27.5.
(2) Note.—For tobacco hanger hoists, see class 254, PUSHING AND PULLING IMPLEMENTS, subclass 140.
(3) Note.—For tobacco sticks and hangers, see class 294, HANDLING, HAND AND HOIST LINE IMPLEMENTS, subclass 5.5.

The patents contained in this subclass have been taken for the most part from class 131, Tobacco, subclass 21, abolished in this order.

In *class 285, Pipe Joints or Couplings* (Division 52), abolish the following subclasses with their definitions:

Swivel
96 Ball or roller bearings,
97 Diagonal joint.

The patents formerly contained in these subclasses have been placed for the most part in class 285, subclasses 96.1 to 97.9, established in this order.

In *class 285, Pipe Joints or Couplings* (Division 52), establish the following subclasses and definitions:

96.1 **Swivel**
96.3 Lateral port to annular sleeve type,
96.5 Cylinder in socket type,
96.6 With plug or access closure
96.7 With hollow central bolt,
96.8 With yoke,
96.9 With center bolt,
97.1 Pipe in socket type
97.3 With ball, ring, or pin detent,
97.5 With flange in socket
97.6 With spring-pressed flange,
97.7 With flange locked axially
97.8 Packed
97.9 Fluid actuated packing.

96.1. Joints wherein pipe sections are so united that one pipe section may turn freely relative to the other.

(1) Note.—Couplings alleged to be swiveled but indistinguishable in structure from couplings frictionally united not intended to swivel, are classified according to their structural features.
(2) Note.—Telescopic, self-accommodating connections comprising a piston, which may incidentally allow swiveling motion, will be found in this class, subclass 162.
(3) Note.—Compare this class, subclasses 9, 90, and 91.

96.3. Joints under subclass 96.1 wherein a lateral port in one pipe section is in communication with an annular opening in a surrounding sleeve.

96.5. Joints under subclass 96.1 wherein a cylinder rotates upon its axis inside a socket and in which a pipe section attached to the cylinder extends through a slot in the socket.

96.6. Joints under subclass 96.1 wherein a plug or other access closure is found. The closure is often to permit assembly of the joint, or to allow the packing of the swiveling parts.

Note.—Compare this class, subclasses 96.5 and 213.

96.7. Joints under subclass 96.6 wherein a hollow bolt extending along the axis of swiveling connects the two swiveling pipe sections.

96.8. Joints under subclass 96.1 wherein an extending yoke or arm upon one pipe section holds the other section in swiveling relationship.

96.9. Joints under subclass 96.1 wherein a bolt which extends along the axis of rotation of the joint holds the two pipe sections in swiveling relationship.

97.1. Joints under subclass 96.1 wherein one pipe section is swivelably received in the other, or in a part fixed to the other.

(1) Note.—Where two pipes abut and a third member, independent of either, holds the two pipe sections together, the patent is classified in this class, subclasses 96.1–96.9.
(2) Note.—Compare this class, subclass 161 and indented subclasses, and the notes.

97.3. Devices under subclass 97.1 wherein a retaining-fastener in the form of a ball, ring, or pin engages a groove in one pipe section to maintain the other pipe section in rotatable engagement.
Note.—Compare this class, subclasses 168–174.

97.5. Joints under subclass 97.1 wherein the pipe section which is received within the other pipe section has a flange thereon.

97.6. Joints under subclass 97.5 wherein a spring member tends to exert a force against the flange to hold it in seated position.

97.7. Joints under subclass 97.5 wherein the flange is held from longitudinal movement in the socket.

97.8. Joints under subclass 97.7 wherein the joint is packed at the flange.

97.9. Joints under subclass 97.8 wherein the packing is actuated to sealing position by fluid pressure, usually by the fluid in the pipe sections.

The patents contained in these subclasses have been taken for the most part from class 285, subclasses 96 and 97, abolished in this order, and from subclasses 1 and 98–213.

In *class 294, Handling, Hand and Hoist-Line Implements* (Division 4), establish the following subclass and definition:

5.5 **Tobacco sticks and hangers.**

5.5. Sticks to which tobacco leaves or stalks may be attached or upon which the leaves or stalks may be strung to facilitate handling.
(1) Note.—Compare with this class, subclass 61.
(2) Note.—For attaching clips per se, see class 24, BUCKLES, BUTTONS, CLASPS, ETC., appropriate subclasses.
(3) Note.—For devices for use in stringing tobacco upon sticks or unstringing tobacco therefrom, see class 214, MATERIAL OR ARTICLE HANDLING, subclass 5.5.

The patents contained in this subclass have been taken for the most part from class 131, Tobacco, subclass 21, abolished in this order.

In *class 312, Supports, Cabinet Structures* (Division 8), abolish the following subclass with its definition:

31 **Gas-permeator type.**

The patents formerly contained in this subclass have been placed for the most part in class 312, subclass 31, reestablished in this order, and in subclasses 31.1, 31.2, and 31.3, established in this order.

In *class 312, Supports, Cabinet Structures* (Division 8), establish the following subclasses and definitions:

31 **With gas or vapor treatment of material**
31.1 Mounted on container closure,
31.2 Externally accessible
31.3 Movably mounted holder.

31. Containers combined with means to treat contained material or articles with a gas or vapor, usually by the operation of a slow diffuser or absorber, where the combination includes more structure of the container than is necessary to mount the treating means or where the particular mode of combination between the treating means and the container is set forth. This subclass does not include similar organizations which, at present, are provided for elsewhere.
(1) Note.—Containers combined with driers are in class 34, DRIERS, when, in addition to the drying function, there are positive means, such as heaters, coolers, blowers, regenerators, material handling, etc., to facilitate the drying function. The driers in this subclass are generally mere hygroscopic materials suitably mounted in the container.
(2) Note.—While class 261, GAS AND LIQUID CONTACT APPARATUS, has many patents claiming containers combined with gas and liquid contact devices, the latter are distinguished from those of this subclass by the presence of positive or dynamic means to promote gas and liquid contact. The devices of this subclass are generally sponges, exposed liquids or other static type devices.
(3) **Search Classes—**
21—PRESERVING, DISINFECTING AND STERILIZING, subclass 83 and appropriate indented subclasses, and subclass 91.
27—UNDERTAKING, subclass 11.
43—FISHING, TRAPPING AND VERMIN DESTROYING, subclass 55.
62—REFRIGERATION, appropriate subclasses.
99—FOODS AND BEVERAGES, subclasses 246 and 269 and indented subclasses.
126—STOVES AND FURNACES, subclass 281.
131—TOBACCO, subclasses 30 and 55, for patents claiming tobacco treating processes or for containers combined with tobacco handling apparatus or dynamic gas treating means.
150—CLOTH, LEATHER AND RUBBER RECEPTACLES, appropriate subclasses.
183—GAS SEPARATION, subclass 4, for absorbents per se or for absorbents combined with holders.
206—SPECIAL RECEPTACLES AND PACKAGES, subclasses 10 and 16.6.
220—METALLIC RECEPTACLES, subclass 87.
223—APPAREL APPARATUS, subclass 86.
299—FLUID SPRINKLING, SPRAYING AND DIFFUSING, subclass 20 and indented subclasses, for slow diffusers per se or for slow diffusers combined with holders.

31.1. Containers under subclass 31 having the treating means mounted on that wall or other part of the container which is ordinarily moved to gain access to the interior thereof for removal of the contents.
Note.—Patents which also claim the treating means incorporated with a wall other than a closure are found in this class, subclass 31.

31.2. Containers under subclass 31 having the treating means located in such a manner that they may be accessible for recharging or replacement without giving access to the container interior for removal of the contents.
Note.—Search this class, subclass 31.1, for treating means which are accessible by manipulation of a container closure.

31.3. Containers under subclass 31.2 having a holder for the treating means mounted on the container for movement to a position permitting recharging or replacement of the treating means.

The patents contained in these subclasses have been taken for the most part from class 131, Tobacco, subclass 30, and from class 206, Special Receptacles and Packages, subclass 41.6, abolished in this order, and class 312, Supports, Cabinet Structures, subclass 31, abolished in this order; also from various subclasses in class 45, Furniture.

In *class 15, Brushing, Scrubbing and General Cleaning* (Division 27), subclass 140, number the existing note (*1*) and add:

(2) Note.—See class 91, COATING, subclass 62.6;

and in subclass 166 number the existing note (*1*) and add:

(2) Note.—See class 91, COATING, subclass 62.6.

In *class 16, Miscellaneous Hardware* (Division 20), in subclass 202 add the following note:

Note.—For cord and rope holders of general application, see class 24, BUCKLES, BUTTONS, CLASPS, ETC., subclass 115 and indented subclasses.

In *class 24, Buckles, Buttons, Clasps, Etc.* (Division 5), subclass 115, in note (4) add:

16—MISCELLANEOUS HARDWARE, subclass 202 and indented subclasses, for devices for anchoring the ends of sash cords;

and in subclass 248, change the period to a comma and add:

or, in certain cases, a single pivoted member carries two sets of jaws or clamping surfaces rigid therewith.

In *class 30, Cutlery* (Division 55), in note (16) of the main class definition cancel "indented subclass" and substitute therefor **23**; in subclass 272 number the existing note (*1*) and add:

(2) Note.—See class 17, BUTCHERING, subclass 23, for power operated cutting tools of the cleaver type peculiar to the butchering art;

and in subclass 308 add:

(3) Note.—Power operated butchers' cleavers of more general use are classified in this class, subclass 272, and those peculiar to the butchering art are in class 17, BUTCHERING, subclass 23.

In *class 59, Chain, Staple and Horseshoe Making* (Division 57), in subclass 84 change note (4) to read:

(4) Note.—See class 174, ELECTRICITY, CONDUCTORS AND INSULATORS, subclasses 184 and 207, for insulator terminals in the form of links or clevises.

In *class 85, Driven, Headed and Screw Threaded Fastenings* (Division 57), subclass 8.5, in the definition after "key," insert *locking ring,*.

In *class 91, Coating* (Division 46), subclass 62.6, number note (2) as (*3*) and add:

(2) Note.—See class 15, BRUSHING, SCRUBBING AND GENERAL CLEANING, subclasses 140 and 166.

In *class 110, Furnaces* (Division 19), subclass 29, add the following notes:

(3) Note.—See class 122, LIQUID HEATERS AND VAPORIZERS, subclass 30, and the notes thereunder, for boilers with fuel magazines.
(4) Note.—See class 126, STOVES AND FURNACES, subclasses 7, 10, 11, 68, 73, and 74, for stoves having magazine fuel feed.

In *class 122, Liquid Heaters and Vaporizers* (Division 46), subclass 30, number the existing note (*1*) and add:

(2) Note.—See class 110, FURNACES, subclass 29 and the notes thereunder for other fuel magazines;

and in subclass 46 in the first note after "92" add *117*.

In *class 126, Stoves and Furnaces* (Division 19), subclass 7, cancel the existing note and substitute:

Note.—See this class, subclass 10 and the notes thereunder, for other magazine feeds;

in subclass 10 cancel the existing note and substitute:

(1) Note.—See this class, subclasses 7, 68, 73, 74, and 124, for other stoves having magazine feed.
(2) Note.—See class 110, FURNACES, subclasses 29 and 30, for magazine fed furnaces;

in subclass 59.5 under "Search classes" add:

47—PLANT HUSBANDRY, subclass 2, for frost preventing means for plants, not otherwise provided for;

in subclass 68, cancel the existing note and substitute:

Note.—See this class, subclass 10 and the notes thereunder, for other magazine feeds;

in subclass 73 cancel note (1) and substitute:

(1) Note.—See this class, subclass 10 and the notes thereunder, for other magazine feeds;

and in subclass 124 number the existing note (2) and add:

(1) Note.—See this class, subclass 10 and the notes thereunder, for other magazine feeds.

In *class 138, Pipes and Tubular Conduits* (Division 52), subclass 49, number notes (3) and (4) as (*4*) and (*5*) and add:

(3) Note.—For flexible transmitters of the Bowden wire type, see class 74, MACHINE ELEMENTS AND MECHANISMS, subclasses 501 and 502.

In *class 140, Wireworking* (Division 14), subclass 111, cancel the reference to class 245, Wire Fabrics and Structure.

In *class 150, Cloth, Leather and Rubber Receptacles* (Division 29), in the main class definition number the existing note (**2**) and add:

(1) Note.—Cloth, leather and rubber receptacles combined with gas or vapor treatment of contained material are in class 312, SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses.

In *class 174, Electricity, Conductors and Insulators* (Division 65), subclass 92, add the following note:

Note.—Compare class 285, PIPE JOINTS OR COUPLINGS, subclasses 99, 100, 194, 195, and 201.5, and class 287, ROD JOINTS OR COUPLINGS, subclass 111;

and in subclass 152 cancel existing note (1) and substitute:

(1) Note.—For insulating bushings limited by structure to use with the end structure of conduits, cables, and conductors, see this class, subclass 74 and indented subclasses, particularly subclass 83, for conduit-end lining thimbles, and see this class, subclasses 154 and 155, for tubular or spool-type insulators mounted in a supporting bracket or holder.

In *class 183, Gas Separation* (Division 32), subclass 4, number the existing note (*1*) and add:

(2) Note.—For getters for electric discharge devices, see class 250, RADIANT ENERGY, subclass 27.5, and appropriate subclasses in class 176, ELECTRIC LAMPS, especially subclasses 2 and 16.
(3) **Search Classes—**
299—FLUID SPRINKLING, SPRAYING AND DIFFUSING, subclass 24, for related structures, and see note (2) thereunder for the line.
312—SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, for containers combined with absorbers, wherein the container is designed to hold material to be dried.

In *class 189, Metallic Building Structures* (Division 33), in subclass 33, cancel the existing notes and substitute:

Note.—The addition of securing or supporting means such as, for example, insulator pins, conductor clamps, etc., does not exclude the combination from this class, but where the conductors and/or insulators are included, or the structure claimed is otherwise limited to use therewith, classification is in class 174, ELECTRICITY, CONDUCTORS AND INSULATORS, particularly subclasses 40 and indented subclasses, and 158 and indented subclasses.

In *class 206, Special Receptacles and Packages* (Division 40), subclass 10, add the following note:

Search Class—
312—SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses;

and in subclass 16.6, number the existing note (*1*) and add:

(2) **Search Class—**
312—SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses.

In *class 211, Supports, Racks* (Division 8), in note (9) of the main class definition cancel "131, Tobacco, subclass 21" and substitute *294, Handling, Hand and Hoist-Line Implements, subclass 5.5*

In *class 215, Bottles and Jars* (Division 58), in the main class definition number the existing note (*2*) and add:

(1) Note.—Bottles and jars combined with gas or vapor treatment of contained material, are in class 312, SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses;

and in subclass 42 add the following note:

Note.—For metallic receptacles having frangible closures, search class 220, METALLIC RECEPTACLES, subclass 27.

In *class 217, Wooden Receptacles* (Division 40), in the main class definition add the following note:

Note.—Wooden receptacles combined with gas or vapor treatment of contained material are in class 312, SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses.

In *class 220, Metallic Receptacles* (Division 40), subclass 24, add the following note:

(6) Note.—For closures combined with gas or vapor treating means, such as slow-diffusers and absorbers, see class 312, SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, and the notes thereunder;

and in subclass 27, add the following note:

(8) Note.—For bottles and jars having frangible closures, search class 215, BOTTLES AND JARS, subclass 42.

In *class 240, Illumination* (Division 30), subclass 2, add under "Search classes":

46—AMUSEMENT DEVICES, TOYS, subclass 203;

in subclass 7.1 number the existing note (*1*) and add:

(2) Note.—See class 46, AMUSEMENT DEVICES, TOYS, subclass 203, for wheeled toys with illuminating means;

and in subclass 71 cancel the reference to class 173, and change the reference to class 191 to read:

191—ELECTRICITY, TRANSMISSION TO VEHICLES, subclasses 12.2, 12.4, 92, and 93.

In *class 245, Wire Fabrics and Structure* (Division 14), in the first sentence of the main class definition insert *fabric* before the word "joints".

In *class 285, Pipe Joints or Couplings* (Division 52), cancel the existing definition and note of subclass 9 and substitute:

9. Joints under subclass 7 wherein pipe sections are so united that some pipe sections may turn freely relative to others.
Note.—Compare this class, subclass 96.1 and indented subclasses;

in subclass 12 add the following note:

Note.—Compare this class, subclasses 201 and 212;

in subclass 90, in the note, preceding "162" add *96.1 and indented subclasses*; in subclass 91, in the note cancel "and", change the period to a comma and add *96.1 and*

indented subclasses; in subclass 99 cancel the existing note and substitute:

(1) Note.—Compare this class, subclasses 194, 195 and 201.5.
(2) Note.—Compare class 174, ELECTRICITY, CONDUCTORS AND INSULATORS, subclass 92, for conduit, cable or conductor joints including longitudinally divided joint casings.
(3) Note.—Compare class 287, ROD JOINTS OR COUPLINGS, subclass 111;

in subclass 102 in note (1) preceding "103" add *96.1*; in subclass 161 in note (1) preceding "133" add *97.1 and indented subclasses*; in subclass 162 in note (2) preceding "124" add *97.1 and indented subclasses, and subclass*; in subclass 184 change the note to read:

Note.—Compare this class, subclasses 18, 96.3, 96.5, and 96.6;

in subclass 194 cancel the existing note and substitute:

(1) Note.—Compare this class, subclasses 99, 100, 129, and 201.5.
(2) Note.—Compare class 174, ELECTRICITY, CONDUCTORS AND INSULATORS, subclass 92, for conduit, cable, or conductor joints including longitudinally divided joint casings.
(3) Note.—Compare class 287, ROD JOINTS OR COUPLINGS, subclass 111;

in subclass 195 cancel the existing note and substitute:

Note.—Compare this class, subclasses 100, 101, and 213;

in subclass 201.5 add the following notes:

(1) Note.—Compare this class, subclasses 99, 100, 194, and 195.
(2) Note.—Compare class 174, ELECTRICITY, CONDUCTORS AND INSULATORS, subclass 92, for conduit, cable, or conductor joints including longitudinally divided joint casings;

and in subclass 213 change note (1) to read:

(1) Note.—Complete the search in this class, subclass 201.5, and compare subclasses 100, 101, and 195;

and add:

(4) Note.—Compare this class, subclass 96.6.

In *class 287, Rod Joints or Couplings* (Division 52), subclass 91, in note (4) change "subclasses 96 and 97" to read *subclass 96.1 and indented subclasses.*

In *class 294, Handling, Hand and Hoist-Line Implements* (Division 4), in note (4) of the main class definition in the reference to class 131 cancel subclass 21; in subclass 19 under "Search classes" cancel the reference to class 131, number the existing note (*1*) and add:

(2) Note.—Compare with this class, subclass 5.5;

and in subclass 61 in note (1) preceding "49" add *5.5.*

In *class 299, Fluid Sprinkling, Spraying and Diffusing* (Division 46), subclass 24, number the existing note (*2*) and add thereunder:

312—SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, for containers combined with slow diffusers, wherein the container is designed to hold material to be treated by the diffused substance;

and add the following note:

(1) Note.—This is the generic subclass for holders for slow-diffusers and absorbents. If the absorbent is claimed specifically, the patent is placed in class 183, GAS SEPARATION, subclass 4.

In *class 312, Supports, Cabinet Structures* (Division 8), in the main class definition number notes (1) and (2) as (*2*) and (*3*) and add:

(1) Note.—This class takes containers or receptacles of all kinds in subclass 31 and indented subclasses.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 9, 1939

[VOL. 502. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 398,266. SUSQUEHANNA COLLIERIES COMPANY, Cleveland, Ohio. Filed Oct. 7, 1937.



The words "Glen Lyon" are disclaimed apart from the mark as shown.
For Anthracite Coal.
Claims use since Sept. 23, 1937.

Ser. No. 414,575. PRUDEN COAL & COKE COMPANY, Knoxville, Tenn. Filed Jan. 6, 1939.



The words "Washed Stoker Pea Coal" are disclaimed apart from the mark.
For Coal.
Claims use since June 27, 1906.

Ser. No. 415,591. GOMSHALL TANNERIES LIMITED, Gomshall, England. Filed Feb. 4, 1939.

VELUTA

For Leather for Use in the Manufacture of Clothing.
Claims use since Jan. 5, 1939.

Ser. No. 416,187. GUTMAN BROS., New York, N. Y. Filed Feb. 18, 1939.



No claim is made to the word "Oak" apart from the mark.
For Leather in the Piece.
Claims use since September, 1938.

Ser. No. 416,644. THE DENVER LEATHER CO., Denver, Colo. Filed Mar. 3, 1939.

ELLA - CINDER

For Leather.
Claims use since Jan. 10, 1938.

CLASS 2

Receptacles

Ser. No. 416,643. CROWN CAN COMPANY, Philadelphia, Pa. Filed Mar. 3, 1939.

FERMAX

For Metal Cans.
Claims use since June 28, 1937.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 412,826. T. NOTON, Oldham, England. Filed Nov. 16, 1938.

'GRIP-O'



Applicant disclaims the word "Grip-O" apart from the mark as shown on the drawing.

For Belt Dressing for Preventing the Slipping of Machine Belting.

Claims use since May 18, 1897.

Ser. No. 415,626. ISAAC C. BAZAN, doing business as Grabo Chemical Company, Grand Rapids, Mich. Filed Feb. 6, 1939.

GRABO

For Liquid Cleaning Agent Particularly Adapted for Cleaning Walls, Windows, Window Shades, Rugs, Interior and Exterior Woodwork, or the Like.

Claims use since January, 1933.

Ser. No. 415,779. INDUSTRIAL SOAP CO., St. Louis, Mo. Filed Feb. 8, 1939.

MEDLEX

For Sweeping Compound, Metal Polish, Toilet Soap, Oil Soap, and Cleanser for Floors, Closets, Wash Bowls, and Sinks.

Claims use since Jan. 25, 1939.

Ser. No. 416,490. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Feb. 27, 1939.

UNION

For Metal Polish.

Claims use since Sept. 1, 1931.

Ser. No. 416,581. PARFUMERIE ROGER ET GALLET, SOCIETE ANONYME, Paris, France. Filed Mar. 1, 1939.

NUIT D'EXTASE

For Toilet Soaps, Soap Pastes, Soap Powders, Soap Creams, and Polishing Materials.

Claims use since August, 1938.

Ser. No. 416,840. CLARENCE M. COBB, Boston, Mass. Filed Mar. 9, 1939.

SPONJOL

For Laundry Detergents Sold in Liquid Form and Dry Cleaning Preparations for Domestic or Industrial Use.

Claims use since Feb. 28, 1939.

Ser. No. 416,841. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Mar. 9, 1930.



Applicant is the owner of registration #113,591 for the trade-mark "Palmolive". The drawing is lined for green. No claim is made to the words "Shave Cream" or to the representation of a carton.

For Shaving Cream.

Claims use since Nov. 20, 1938.

Ser. No. 416,842. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Mar. 9, 1939.



Applicant is the owner of registration #113,591 for the trade-mark "Palmolive". No claim is made to the words "Brushless Shave" or to the representation of a carton. The drawing is lined for green.

For Shaving Cream.

Claims use since Dec. 13, 1938.

Ser. No. 417,036. JOHN J. TRACEY COMPANY, Chicago, Ill. Filed Mar. 13, 1939.

Flaroma

For Toilet Soaps.

Claims use since Oct. 26, 1938.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 403,477. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Feb. 26, 1938.

MELOCOL

For Tanning Agents and Textile Assistants in the Nature of Wetting Agents, Impregnating Agents, Stiffening Agents, Finishing Agents, and Mordants.

Claims use since Nov. 5, 1937.

Ser. No. 403,479. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Feb. 26, 1938.

MELOPAS

For Tanning Agents and Textile Assistants in the Nature of Wetting Agents, Impregnating Agents, Stiffening Agents, Finishing Agents, and Mordants.

Claims use since Nov. 5, 1937.

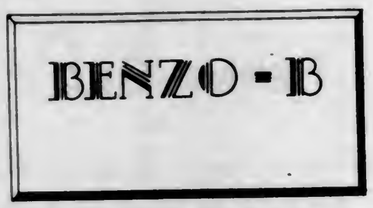
Ser. No. 406,154. SEATTLE DRUG CO., INC., Seattle, Wash. Filed May 9, 1938.



For Antiseptic Skin Lotions.

Claims use since Mar. 25, 1935.

Ser. No. 409,572. ANN HUDSON, New York, N. Y. Filed Aug. 13, 1938.

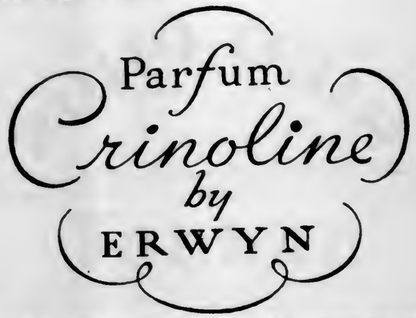


No claim is made to the letter "B" apart from the mark.

For Compound Tonic to Relieve Nervous Condition and Headaches.

Claims use since July 14, 1938.

Ser. No. 409,993. ERWYN PRODUCTS INC., New York, N. Y. Filed Aug. 26, 1938.



The word "Parfum" is disclaimed apart from the mark.

For Perfume, Rouge, Perfumed Bath Salts, Pine Bath Oil, Bath Powder, Liquid Foam Solution for the Bath, Lipstick, Face Powder, Sachet, Eau de Cologne, Cleansing Cream, Liquid Rubbing Solution, Deodorant, and Talcum Powder.

Claims use since July 6, 1938.

Ser. No. 412,256. HARWOODS LABORATORIES LIMITED, Watford, England. Filed Nov. 1, 1938.

SEROCALCIN

For Medicated Tablets for Human Use in the Treatment and Prevention of Colds and Other Respiratory Infections.

Claims use since June 30, 1927.

Ser. No. 413,835. MARCEL LEDUC, New York, N. Y. Filed Dec. 14, 1938.



No claim is made to the word "Baltique" apart from the mark.

For Toilet Water, Eau de Cologne, Suntan Oil, Essence of Perfume, and Deodorant.

Claims use since Dec. 31, 1935.

Ser. No. 414,344. THE GLIDDEN COMPANY, doing business as Southern Pine Chemical Company, Cleveland, Ohio. Filed Dec. 30, 1938.

GUAI-A-PHENE

For Mixture of Phenols Obtained from Resinous Pine Wood Used as an Anti-Oxidant for the Prevention of Gelling, Skinning, and Oxidation in Paint, Paint Enamel, Varnish, Printing Ink, Linoleum, Rubber, Petroleum, and the like.

Claims use since June, 1932.

Ser. No. 415,074. COOPERATIVE G. L. F. SOIL BUILDING SERVICE, INC., New York, and Ithaca, N. Y. Filed Jan. 21, 1939.

SILO-PHOS

For Preservatives for Feeds for Live Stock, Particularly Chemical Preparations Adapted to Keep Hay and Feeds Green in Silos.
Claims use since May 24, 1938.

Ser. No. 415,341. LEIGH CHEMIST, INC., New York, N. Y. Filed Jan. 28, 1939.

KLENSTIK

For Toilet Creams in Solid and Unsolid Form.
Claims use since Jan. 4, 1939.

Ser. No. 415,622. ANTON SALES COMPANY, Philadelphia, Pa. Filed Feb. 6, 1939.

RE-LY

For Laxative Tablets.
Claims use since 1923.

Ser. No. 415,634. CASTILIAN PRODUCTS CORP., Los Angeles, Calif. Filed Feb. 6, 1939.

MŌDAL NAIL MAKUP

The words "Nail Makeup" are disclaimed apart from the mark.
For Nail Polish, Nail Enamel, Cuticle Oil, Nail Polish Remover, and Nail Wax Preservative.
Claims use since Sept. 26, 1938.

Ser. No. 415,849. MORTON CHEMICAL COMPANY, Greensboro, N. C. Filed Feb. 9, 1939.

MORPEL

For Sulphonated Oils, Finishing Oils, Dyeing Oils, Penetrating Oils, Coning Oils, Delustering Agents, Silk Soaking Oils, Silk Degumming Oils, and Wool Oils.
Claims use since Nov. 19, 1934.

Ser. No. 415,850. MORTON CHEMICAL COMPANY, Greensboro, N. C. Filed Feb. 9, 1939.

MORPELTEX

For Series of Organic Specialties Including Softeners and Finishes for Cotton, Wool, Silk, and Rayon Piece Goods, and for Cotton and Rayon Yarns; Dispersing Agents for Dyes and Pigments, Emulsifying Agents (for Oils and Waxes, Etc.), Splash Proofing and Moisture Proofing Agents for Fibres and Fabrics, Scouring and Fulling Agents for Wool, Silk Degumming and Dyeing Assistants, Dye Levelling Agents and Warp Sizes.
Claims use since Mar. 8, 1937.

Ser. No. 415,851. MORTON CHEMICAL COMPANY, Greensboro, N. C. Filed Feb. 9, 1939.

MORPELWET

For Series of Organic Wetting and Penetrating Agents for Fibres and Wetting, Penetrating, and Dispersing Agents for Pigments, Dyes, and Chemicals.
Claims use since Jan. 19, 1938.

Ser. No. 416,001. F. M. SHELDON, doing business as Super-Digester Products Company, Pasadena, Calif. Filed Feb. 13, 1939.

TRY-IT

For Vitamin Mineral Supplement for Dogs and Cats.
Claims use since Jan. 24, 1939.

Ser. No. 416,476. PHARMACAL PRODUCTS, INC., New York, N. Y. Filed Feb. 27, 1939.

UROLIN

For Medicinal Preparation for Oral Use in Alleviation of Pain and Discomfort in Urinary Tract.
Claims use since May 26, 1938.

Ser. No. 416,503. BURTNETT DRUG COMPANY, Wichita, Kans. Filed Feb. 28, 1939.

V.P.S.

For Cough Syrup.
Claims use since August, 1937.

Ser. No. 416,570. JOSEPH S. LUCAS, doing business as Medical Products Company, New Orleans, La. Filed Mar. 1, 1939.

DERMOXIDE

For Cream Lotion.
Claims use since Feb. 1, 1939.

Ser. No. 416,611. LADY ESTHER, LTD., Chicago, Ill. Filed Mar. 2, 1939.

. PERMA-GLO .

For Nail Polish and Lustre.
Claims use since Feb. 23, 1939.

Ser. No. 416,619. SCHERING CORPORATION, Bloomfield, N. J. Filed Mar. 2, 1939.

ANLOTRON

For Medicinal Preparation for Use in Glandular Deficiencies.
Claims use since Feb. 21, 1939.

Ser. No. 416,625. JACOB BENDIX, New York, N. Y. Filed Mar. 1, 1939.

Fru-Fru Finish

The word "Finish" is not claimed apart from the mark.
For Compound Used in the Finishing of Textile Fabrics and Also for Use as a Type of Finish for Textile Fabrics, and for the Processing of Textile Fabrics Before Finishing.
Claims use since Mar. 18, 1937.

Ser. No. 416,646. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Mar. 3, 1939.

KODAK

For Organic Chemicals, Including Acetals, Acid Anhydrides, Alcohols Except Potable Ethyl Alcohol, Aldehydes, Alkaloids, Amides, Amines or Nitrogen Bases, Amino Acids, Azo Compounds, Carbohydrates, Carboxylic Acids, Carboxylic Acid Halides, Dyes, Esters, Ethers, Halogenated Hydrocarbons, Halohydrins, Heterocyclic Compounds, Hydrazines, Hydrocarbons, Ketenes, Ketones, Mercaptans, Metal Alkyls, Naphthols, Nitriles, Nitro and Nitroso Compounds, Orthoesters, Oximes, Phenols, Proteins, Purines, Quaternary Ammonium Compounds, Quinones, Sulfides, Sulfones, Sulfonic Acids, and Sulfonic Acid Halides.
Claims use since May 18, 1938.

Ser. No. 416,662. SUPREME OLIVE OIL CORPORATION, San Fernando, Calif. Filed Mar. 3, 1939.



Benedetto

For Cosmetics—Namely, Nail Polish, Cuticle Remover, Face Cream, Hand Lotion, Face Lotion, Hair Oil, Nail Polish Remover, Sun Tan Lotion, Brilliantine, and Hair Tonic.
Claims use since Feb. 24, 1939.

Ser. No. 416,681. CARTER PRODUCTS, INC., New York, N. Y. Filed Mar. 4, 1939.

AVID

For Lipstick.
Claims use since Feb. 21, 1939.

Ser. No. 416,711. WILLIAM R. WARNER & CO., INC., New York, N. Y. Filed Mar. 4, 1939.

DIGINOVIN

For Stabilized Solution of the Total, Undenatured, Purified Glycosides of Digitalis, U. S. P.
Claims use since Feb. 23, 1939.

Ser. No. 416,744. MARY ELLEN RAGAN, Centerton, Ind. Filed Mar. 6, 1939.

MA-EL-RA-TONE

For Liniment and Herb Compound Used as a Laxative and Stomachic Appetizer.
Claims use since Jan. 1, 1939.

Ser. No. 416,764. DORLAND INTERNATIONAL, INCORPORATED, New York, N. Y. Filed Mar. 7, 1939.

TOGNAC

For Perfumery, Toilet Water, and Astringent.
Claims use since Feb. 27, 1938.

Ser. No. 416,777. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Mar. 7, 1939.

DIOVOCYLIN

For Female Sex Hormone Preparation Indicated in Treating Endocrine Deficiencies.
Claims use since Jan. 27, 1939.

Ser. No. 416,778. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Mar. 7, 1939.

BENOVOCYLIN

For Female Sex Hormone Preparation Indicated in Treating Endocrine Deficiencies.
Claims use since Jan. 27, 1939.

Ser. No. 416,779. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Mar. 7, 1939.

CAPADERM

For Leather Pigment Finishing Colors.
Claims use since June 25, 1932.

Ser. No. 416,890. CLARK-MILLNER CO., Chicago, Ill. Filed Mar. 10, 1939.

Twin Sisters
EYE
PIK-UPS

The word "Eye" is disclaimed apart from the mark.
For Solution Saturated Eye Masks.
Claims use since Feb. 1, 1939.

Ser. No. 416,909. MCCOY'S PRODUCTS, INC., New York, N. Y. Filed Mar. 10, 1939.

OriNase

For Liquid Preparation for Treatment of Asthma and Hay Fever.
Claims use since Mar. 4, 1939.

Ser. No. 416,917. SARAVEL, INC., New York, N. Y. Filed Mar. 10, 1939.

NUANCE

For Toilet Water, Face Powder, Perfume, Talcum Powder, Dusting Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Sachet, Cold Cream, Lotion for the Skin and Hair, Powder and Rouge Compacts.
Claims use since Feb. 28, 1939.

Ser. No. 416,918. SARAVEL, INC., New York, N. Y. Filed Mar. 10, 1939.

SARAVEL

For Toilet Water, Face Powder, Perfume, Talcum Powder, Dusting Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Sachet, Cold Cream, Lotion for the Skin and Hair, Powder and Rouge Compacts.
Claims use since Feb. 28, 1939.

Ser. No. 416,919. SARAVEL, INC., New York, N. Y. Filed Mar. 10, 1939.

SIROCCO

For Toilet Water, Face Powder, Perfume, Talcum Powder, Dusting Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Sachet, Cold Cream, Lotion for the Skin and Hair, Powder and Rouge Compacts.
Claims use since Feb. 28, 1939.

Ser. No. 416,920. SARAVEL, INC., New York, N. Y. Filed Mar. 10, 1939.

TOUCHANT

For Toilet Water, Face Powder, Perfume, Talcum Powder, Dusting Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Sachet, Cold Cream, Lotion for the Skin and Hair, Powder and Rouge Compacts.
Claims use since Feb. 28, 1939.

Ser. No. 416,968. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Mar. 11, 1939.

SEAL-TIP

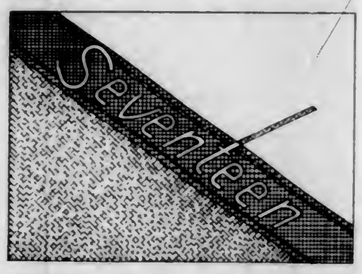
For Adhesive Medicated Shields, Pads, or Plasters for Corns, Callouses, and Bunions.
Claims use since Feb. 27, 1939.

Ser. No. 417,022. MAURICE LEVY, doing business as Malvy, New York, N. Y. Miled Mar. 13, 1939.

Chichi

For Perfume.
Claims use since Feb. 1, 1939.

Ser. No. 417,032. SINCLAIR G. STANLEY, doing business as Stanis, Chicago, Ill. Filed Mar. 13, 1939.



For Laxative Tablets.
Claims use since May 6, 1938.

Ser. No. 417,067. J. S. TYREE, CHEMIST, INC., Washington, D. C. Filed Mar. 14, 1939.

CYSTODYNE

For Liquid Medicinal Preparations for Internal Use in Cases of Chronic Pyelitis, Subacute and Chronic Inflammation of the Kidneys, Catarrh, and Chronic Inflammation and Irritation of the Bladder, Chronic Inflammation of the Urethra, Irritation From Enlargement of the Prostate Gland, Incontinence of Urine in Children Caused by Irritation of the Bladder, as a Preventive of the Formation or Deposition of Uric-Acid in Uric-Acid Gravel and Uric-Acid Calculus, and in All Cases of Dropsy When it is Desired to Increase the Flow of Urine.
Claims use since 1927.

Ser. No. 417,092. LENTHERIC, INCORPORATED, New York, N. Y. Filed Mar. 15, 1939.

JOHN PEEL

John Peel was the famous English Huntsman who died in 1854.
For After Shave Lotion, Eau de Cologne, and Scalp Stimulant.
Claims use since Mar. 8, 1939.

Ser. No. 417,093. LENTHERIC, INCORPORATED, New York, N. Y. Filed Mar. 15, 1939.

Le triangle de fleurs

For Perfumes.
Claims use since Feb. 24, 1939.

Ser. No. 417,109. WHITMIRE RESEARCH CORP., St. Louis, Mo. Filed Mar. 15, 1939.

DIHYDROLIN

For Insecticidal Concentrates.
Claims use since Feb. 15, 1939.

Ser. No. 417,154. IODENT CHEMICAL COMPANY, Detroit, Mich. Filed Mar. 16, 1939.



No claim is made to the words "Liquid Center" apart from the mark.
For Medicated Composition for the Relief of Coughs and Colds and More Particularly Cough Drops.
Claims use since Mar. 9, 1939.

Ser. No. 417,179. THE MILWHITE COMPANY, INC., Houston Tex. Filed Mar. 17, 1939.

DISPERSOID

For Chemical Mud-Thinner.
Claims use since June 17, 1938.

Ser. No. 417,200. BORCHERDT MALT EXTRACT CO., Chicago, Ill. Filed Mar. 18, 1939.

THIAMALT

For Vitamin B Complex Malt Syrup.
Claims use since September, 1938.

Ser. No. 417,260. CARTER PRODUCTS, INC., New York, N. Y. Filed Mar. 20, 1939.

LIVACLEAN

For Laxative Salt and Laxative Pills.
Claims use since Mar. 11, 1939.

Ser. No. 417,353. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 21, 1939.

Betaplexin

For Vitamin B Complex Preparation.
Claims use since Feb. 20, 1939.

Ser. No. 417,414. SUZANNE PERICHON, Paris, France. Filed Mar. 23, 1939.

TOUT DE SUITE

For Perfumes, Toilet Waters, Rouge, Lipstick, Face Cream, Face Powder, Nail Cream, and Skin Cream.
Claims use since Jan. 28, 1938.

Ser. No. 417,714. PEGGY SAGE, INC., New York, N. Y. Filed Mar. 31, 1939.

WICKED WHITE

No claim is made to the word "White" apart from the mark.
For Nail Polish.
Claims use since Mar. 24, 1939.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 416,479. REX PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 27, 1939.

Rex
FIFTH AVENUE

For Cigarette Cases not Made of Precious Metals.
Claims use since Oct. 15, 1937.

Ser. No. 416,961. LONDON HOUSE, LTD., New York, N. Y. Filed Mar. 11, 1939.

His Royal Highness
H. R. H.

For Pipes.
Claims use since 1927.

CLASS 12

Construction Materials

Ser. No. 402,427. LACLEDE STEEL COMPANY, St. Louis, Mo. Filed Jan. 28, 1938.



For Steel Joists and Steel Wire Mesh for Concrete Reinforcement
Claims use since Aug. 12, 1937.

Ser. No. 408,205. PINE HILL LIME & STONE COMPANY, Pine Hill, Ky. Filed July 5, 1938.



Castle Mortar

No claim is made to the word "Mortar" apart from the mark.

For Masonry Cement, Stucco, and a Plastic Cement—i. e., a Product Described in and Produced by the Methods Stated in U. S. Letters Patent Nos. 1,993,924 and 1,912,883, Respectively.

Claims use since January, 1938.

Ser. No. 413,847. VEREINIGTE DEUTSCHE METALLWERKE AKTIENGESELLSCHAFT, Frankfort-on-the-Main-Heddernheim, Germany. Filed Dec. 14, 1938.

Tecuta

For Bituminous Adhesives and Cements, and Luting Materials.

Claims use since 1929.

Ser. No. 415,481. I. F. LAUCKS, INC., Seattle, Wash. Filed Feb. 1, 1939.

WEATHER-TEX

For Plastic Wall Coating Compounds Applied to Surfaces Formed of Materials, as Plywood, Stucco, Brick, and Metal, to Simulate a Plastered Wall Surface.

Claims use since Jan. 23, 1939.

Ser. No. 416,965. NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Mar. 11, 1939.

KARBATE

For Carbon and Graphite Products for Construction Purposes, such as Pipes, Tubes, and Fittings for Conveying Liquids and Gases and for Use as Heat Exchangers in Handling Liquids and Gases.

Claims use since Jan. 25, 1939.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 414,238. THE REFINITE CORPORATION, Omaha, Nebr. Filed Dec. 27, 1938.

NIMBUS

For Water Softening Apparatus Consisting Primarily of a Tank Having Therein a Quantity of Zeolite Crystals which Have the Characteristic of Removing Calcium and Magnesium from Water During an Intimate Contact of Water with said Crystals while the Water is Passing Through said Tank.

Claims use since Dec. 12, 1938.

Ser. No. 414,555. THE COFFELATOR CO., Newark, N. J. Filed Jan. 6, 1939.

Coffelator IT'S IN THE BAG CREOLE WARE

The words "Creole Ware" are disclaimed apart from the mark.

For Coffee Makers.

Claims use since December, 1938.

Ser. No. 415,374. J. C. BRADSHAW, doing business as Oil Tool Manufacturing Co., Houston, Tex. Filed Jan. 30, 1939.



For Bull Plugs, Boiler Nipples, Bushings, Crosses, Choke Nipples, L's, Flange Unions, Nipples, Pipe Caps, Rotary Hose Connections, and T's.

Claims use since Jan. 1, 1932.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 416,236. ACME STEEL COMPANY, Chicago, Ill. Filed Feb. 20, 1939.

Superstrip

For Hot Rolled, Cold Rolled, Galvanized, and Stainless Steel Strip.

Claims use since May 21, 1935.

CLASS 15

Oils and Greases

Ser. No. 405,707. UNITED REFINING CO., Russell, Kans. Filed Apr. 25, 1938.

BRONZE URCO

The word "Bronze" is disclaimed apart from the mark.

For Gasoline, Motor Oils, and Automobile Greases.

Claims use since Apr. 1, 1938.

Ser. No. 416,218. VISCOSITY OIL COMPANY, Chicago, Ill. Filed Feb. 18, 1939.

VISOCO

For Lubricating and Penetrating Oils.

Claims use since January, 1920.

CLASS 16

Paints and Painters' Materials

Ser. No. 415,186. RADIANT FINISH COMPANY, Chicago, Ill. Filed Jan. 24, 1939.



For Varnish-like Finish for Automotive Equipment and the Like.

Claims use since Apr. 2, 1938.

Ser. No. 416,397. AULT & WIBORG CORPORATION, Cincinnati, Ohio, and New York, N. Y. Filed Feb. 25, 1939.

Polymex

For Ready-Mixed Paints, Varnishes, and Paint Enamels.

Claims use since Feb. 7, 1939.

Ser. No. 416,489. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Feb. 27, 1939.

UNION

For Automobile, Furniture, and Floor Polishing Waxes, and Self-Polishing Wax.

Claims use since June 8, 1933.

CLASS 17

Tobacco Products

Ser. No. 416,427. LARUS & BROTHER COMPANY, INC., Richmond, Va. Filed Feb. 25, 1939.

CHEERIO

For Tobacco Products—Namely, Cigarettes, Smoking and Chewing Tobacco.

Claims use since Feb. 17, 1939.

Ser. No. 416,787. RIGGIO TOBACCO CORPORATION, New York, N. Y. Filed Mar. 8, 1939.

REGENT

For Cigarettes.

Claims use since Nov. 4, 1938.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 416,673. ARNOLD, SCHWINN & CO., Chicago, Ill. Filed Mar. 4, 1939.

PIONEER

For Bicycles.

Claims use since Feb. 15, 1939.

Ser. No. 416,674. ARNOLD, SCHWINN & CO., Chicago, Ill. Filed Mar. 4, 1939.



For Bicycles.

Claims use since Feb. 15, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 413,652. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Dec. 9, 1938.

SUN SPOT

For Electric Ranges and Parts Therefor.
Claims use since Nov. 1, 1938.

Ser. No. 413,736. RAYTHEON MANUFACTURING COMPANY, Newton, Mass. Filed Dec. 12, 1938.



For Devices for Controlling or Modifying Electrical Currents, Including Alternating Current Rectifying Systems, Amplifiers, Arc Length Monitors, Automatic Self-Regulating Battery Chargers, Chokes, Induction Heating Current Sources, Neon Sign Controllers, Transformers, Vibratory Feeder Controllers, and Voltage Regulators.
Claims use since November, 1934.

Ser. No. 413,913. SALZ BROTHERS, INC., New York, N. Y. Filed Dec. 16, 1938.

Peter Pan

For Flashlights.
Claims use since Nov. 30, 1937.

Ser. No. 414,131. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill. Filed Dec. 22, 1938.

TRU-TEST

For Spark Plugs, Electric Vacuum Cleaners, Batteries, Electric Motors and Electric Fans, Electric Toasters and Sadirons.
Claims use since July, 1937.

Ser. No. 414,843. SQUARE D COMPANY, Detroit, Mich. Filed Jan. 14, 1939.

SYNCRO-BREAK

The word "Break" is disclaimed apart from the mark.
For Electromagnetically Operated Magnetic Switches.
Claims use since Dec. 23, 1938.

Ser. No. 415,232. THE SPARKS-WITHINGTON COMPANY, Jackson, Mich. Filed Jan. 25, 1939.

Stock-Aide

For Electric Fence Controller Apparatus.
Claims use since Jan. 17, 1939.

Ser. No. 415,406. MANNING, BOWMAN & CO., Meriden, Conn. Filed Jan. 30, 1939.

TWIN-O-MATIC

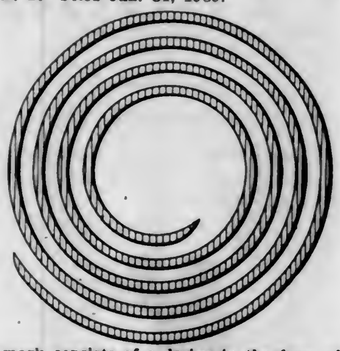
For Electric Waffle Irons.
Claims use since Dec. 6, 1938.

Ser. No. 415,450. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Jan. 31, 1939.

SPIRAKORE

For Stationary Induction Apparatus—Namely, Electric Transformers.
Claims use since December, 1938.

Ser. No. 415,452. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Jan. 31, 1939.



Trade-mark consists of a design in the form of a relatively loose four-turn spiral imprinted in red on a white background, the lines forming the spiral having shading in black on the right-hand sides thereof.
For Electric Transformers and Stationary Induction Apparatus.
Claims use since December, 1938.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 413,873. MCLOUGHLIN BROS., INC., Springfield, Mass. Filed Dec. 15, 1938.

SING-A-SONG PLAYERBOOK

The notation "Playerbook" is disclaimed apart from the mark.
For Combination Song Book and Musical Toy.
Claims use since Aug. 12, 1938.

Ser. No. 416,433. MONSANTO CHEMICAL COMPANY, St. Louis, Mo., and Indian Orchard, Mass. Filed Feb. 25, 1939.

PLAS-TEE

Applicant disclaims the word "Tee" apart from the mark.
For Golf Tees.
Claims use since Feb. 15, 1939.

Ser. No. 416,796. NED DAY, Milwaukee, Wis. Filed Mar. 8, 1939.

Ned Day
GRIP

The notation "Ned Day" is a facsimile of applicant's signature. The word "Grip" is disclaimed apart from the mark.
For Bowling Balls.
Claims use since Mar. 1, 1939.

Ser. No. 417,121. ESSEX RUBBER COMPANY, Trenton, N. J. Filed Mar. 16, 1939.

Mainliner

For Rubber Railroad Ties for Tracks for Toy Trains.
Claims use since Mar. 6, 1939.

Ser. No. 417,313. UNIVERSAL TABLE TENNIS CORPORATION, Boston, Mass. Filed Mar. 20, 1939.



For Table-Tennis Sets or Outfits Consisting of Table-Tennis Balls and Table-Tennis Bats.
Claims use since Mar. 7, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 404,596. THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio. Filed Mar. 29, 1938.

Buckeye

For Ditch Digging Machines, Clay and Sand Digging Machines, Soil Pulverizing Machines, Concrete Breaking Machines, Trench Excavating Machines, Highway Widening Machines.
Claims use since June, 1921.

Ser. No. 404,597. THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio. Filed Mar. 29, 1938.

Buckeye
Clipper

For Shoveling Machines Having a Crane-Supported Shovel.
Claims use since December, 1936.

Ser. No. 411,448. DELTA MANUFACTURING COMPANY, Milwaukee, Wis. Filed Oct. 10, 1938.

UNISAW

For Circular Saws and Saw Tables.
Claims use since Sept. 23, 1938.

Ser. No. 413,035. THE VIKING TOOL & MACHINE CORPORATION, Belleville, N. J. Filed Nov. 18, 1938.

MASTER TAPPER

Applicant disclaims the word "Tapper".
For Machinery, Tools, and Parts Thereof and Particularly on Tapping Machines, Tapping Fixtures, and Tapping Appliances.
Claims use since 1937.

Ser. No. 415,147. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 23, 1939.

S·R

For Razor Blades.
Claims use since May 25, 1937.

Ser. No. 415,324. CHENEY WEEDER COMPANY, Cheney, Wash. Filed Jan. 28, 1939.

TILIVATOR

For Rotary Rod Weeders.
Claims use since Sept. 8, 1937.

Ser. No. 416,221. C. H. GEMMILL, doing business as C. H. Gemmill Company, Chicago, Ill. Filed Feb. 16, 1939.

GEMCO

For Drills, Jigs, Boring Jigs, Form Tools, Dies and Fixtures, Milling Fixtures, Cutters, End Mills, Mill Sets, Counterbores, Reamers, Shank Arbors, and Arbors.
Claims use since Oct. 1, 1937.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 414,611. ROBERT E. CARTER, Chicago, Ill. Filed Jan. 6, 1939.

INSUROGRAPH

For Insurance Policy Vending Machines.
Claims use since May 10, 1937.

Ser. No. 415,799. SERVICE INSTRUMENTS INC., New York, N. Y. Filed Feb. 8, 1939.

Chanalyst

For Radio Testing Units, Radio Testing Instruments, and Radio Measuring Instruments.
Claims use since June 1, 1938.

CLASS 27

Horological Instruments

Ser. No. 414,684. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Jan. 11, 1939.

QUEEN MARIE

The mark was adopted in honor of Queen Marie of Rumania.
For Watches—Namely, Wrist or Strap Watches.
Claims use since Oct. 31, 1926.

Ser. No. 416,559. HERMES, S. A., Paris, France. Filed Mar. 1, 1939.

HERMES

For Clocks and Watches.
Claims use since first part of December, 1936.

Ser. No. 416,730. HELBROS WATCH CO. INC., New York, N. Y. Filed Mar. 6, 1939.

KNIFEDGE

For Watches.
Claims use since Jan. 3, 1939.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 410,439. HARRY C. SCHICK, INC., Newark, N. J. Filed Sept. 10, 1938.

For Necklace Clasps and Snaps and Other Articles of Jewelry, not Including Watches, Made of Platinum, Gold, Rolled and Filled Gold, and Sterling Silver.
Claims use since Mar. 1, 1938.

Ser. No. 416,192. JUVENILE JEWELRY COMPANY, Chicago, Ill. Filed Feb. 18, 1939.

KIDDIE-CULTURE
Birthday Pearls

No claim is made to the words "Culture" and "Pearls" and the design of the string of pearls apart from the mark.
For Baby and Children's Jewelry Consisting of Cultured Pearls and Cultured Pearl Necklaces.
Claims use since Jan. 2, 1937.

Ser. No. 416,525. STREICHER MFG. COMPANY, Newark, N. J. Filed Feb. 28, 1939.

SMCo

For Finger Rings and Finger Ring Findings.
Claims use since Feb. 20, 1922.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 403,991. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Mar. 12, 1938.

Cashmere Bouquet

Applicant is owner of T. M. Reg. Nos. 58,702 and 345,255.
For Powder Puffs.
Claims use since July 1, 1937.

CLASS 31

Filters and Refrigerators

Ser. No. 417,055. ED. FRIEDRICH, INC., San Antonio, Tex. Filed Mar. 14, 1939.

"FRIEDRICH KLEENLINE"

No claim is made to the name "Friedrich" apart from the mark.
For Refrigerators and Refrigerator Cabinets.
Claims use since Feb. 10, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 404,197. LESTER L. FINDLEY, doing business as The-Cab-Ni-Tex Company, Los Angeles, Calif. Filed Mar. 16, 1938.

CAB-NI-TEX

For Syringe Cabinets.
Claims use since Feb. 1, 1938.

Ser. No. 411,755. SCHRENK & COMPANY, Hoboken, N. J. Filed Oct. 18, 1938.

ESCo
Copper Clad

Applicant disclaims the words "Copper Clad" apart from the mark.
For Mirrors.
Claims use since July 1, 1938.

CLASS 33

Glassware

Ser. No. 416,609. KORWOOD INCORPORATED, Chicago, Ill. Filed Mar. 2, 1939.

KORWOOD

For Glass Coffee Makers and Parts Thereof.
Claims use since Feb. 10, 1939.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 399,924. FARRAR & TREFTS, INCORPORATED, Buffalo, N. Y. Filed Nov. 19, 1937.

F & T

For Pressure Tanks and Hot Water and Steam Boilers for Heating and Power Purposes.
Claims use since July 12, 1904.

Ser. No. 405,583. AEROFIN CORPORATION, Syracuse, N. Y. Filed Apr. 22, 1938.

FLEXI TUBE

The word "Tube" and the representation of the goods are disclaimed apart from the mark as shown.
For Heating, Cooling, and Air Conditioning Units Employing Finned Tubing.
Claims use since Jan. 20, 1932.

Ser. No. 408,469. MOORE DRY KILN COMPANY OF OREGON, North Portland, Oreg. Filed July 13, 1938.

CROSS-CIRCULATION
SINCE 1879
MOORE DRY KILNS
FAN SYSTEM

All notations shown on the drawing except "Moore Since 1879" are disclaimed apart from the mark.
For Dry Kilns.
Claims use since Dec. 1, 1936.

Ser. No. 409,841. ROYE W. FRANKS, doing business as Windmaster Draft Control Co., Portland, Oreg. Filed Aug. 22, 1938.

WINDMASTER

For Draft Control Dampers for Furnaces, Heating Plants, Gas Fired Furnaces, Stoker Fired Furnaces, Large Commercial Heating Plants and Furnaces and Wherever the Draft Through a Flue Pipe is to be Controlled.
Claims use since Aug. 22, 1934.

Ser. No. 412,595. WILLIAM A. DARRAH, Chicago, Ill. Filed Nov. 10, 1938.



Applicant disclaims the outline map except when used in connection with the herein referred to trade-mark.

For Industrial Furnaces, Heat Treating Ovens, Dryers, Pickling Baths and Quenches, Ceramic Kilns, Glass Lehrs, Gas Generators, Gas Burners, Oil Burners, and Stokers.

Claims use since Jan. 1, 1928.

Ser. No. 414,128. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill. Filed Dec. 22, 1938.

TRU-TEST

For Gasoline Lanterns, Pilot Cigarette Lighters, Woven Wicks, Acetylene Welding Outfits, Oil Stoves, and Forced Draft Window Ventilators.

Claims use since July, 1937.

Ser. No. 414,729. ESKO MANUFACTURING CORPORATION, Houston, Tex. Filed Jan. 12, 1939.

HEAT BREAKER

The representation of the goods is disclaimed apart from the mark.

For Ventilating Fans.

Claims use since November, 1938.

Ser. No. 417,049. BASTIAN-MORLEY CO., INC., La Porte, Ind. Filed Mar. 14, 1939.

Last-a-Life

For Tank Used in Hot Water Heaters.

Claims use since Dec. 28, 1938.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 410,107. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Aug. 30, 1938.

RAYO-CORD

The word "Cord" is disclaimed apart from the mark shown.

For Tires.

Claims use since July 27, 1938.

Ser. No. 414,875. THE GLOBE OIL & REFINING COMPANY, Wichita, Kans. Filed Jan. 16, 1939.

ROCKET

For Tires and Tubes.

Claims use since Jan. 5, 1939.

Ser. No. 414,876. THE GLOBE OIL & REFINING COMPANY, Wichita, Kans. Filed Jan. 16, 1939.

SUPER-ROCKET

For Tires and Tubes.

Claims use since Jan. 5, 1939.

Ser. No. 417,791. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Filed Apr. 3, 1939.

Manor House

For Garden Hose.

Claims use since Dec. 29, 1938.

CLASS 37

Paper and Stationery

Ser. No. 416,582. REMINGTON RAND INC., Buffalo, N. Y. Filed Mar. 1, 1939.

Secretarial

For Copyholders.

Claims use since July 13, 1934.

Ser. No. 416,725. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Mar. 6, 1939.

MORNAP

For Toilet Paper, Towels, and Napkins.

Claims use since May 11, 1938.

Ser. No. 416,726. GOLDSMITH BROS., New York, N. Y. Filed Mar. 6, 1939.



The word "Fasteners" is disclaimed apart from the mark.

For Fasteners for Papers and Stationery.

Claims use since July 30, 1936.

Ser. No. 416,985. ALDINE PAPER COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 13, 1939.

ALDEX

For Filter or Porous Paper Used in the Manufacture of Tea Bags and Coffee Balls and Similar Articles.

Claims use since Feb. 8, 1939.

CLASS 38

Prints and Publications

Ser. No. 395,339. ESQUIRE-CORONET, INC., Chicago, Ill., assignor to Ken, Inc., Chicago, Ill., a corporation of Delaware. Filed July 17, 1937.

KEN

"THE INSIDER'S WORLD"

For Publication Issued Periodically.

Claims use since May 1, 1937.

Ser. No. 412,168. ROY T. BRAMSON, doing business as The Bramson Publishing Company, Detroit, Mich., assignor to The Bramson Publishing Company, Detroit, Mich. Filed Oct. 29, 1938.

USED CAR MERCHANDISER

For Magazine.

Claims use since July 1, 1937.

Ser. No. 414,071. HARVEY & HOWE, INC., Chicago, Ill. Filed Dec. 21, 1938.



For Publication of Reading Matter of Interest to the Home Economics Profession, Published Monthly.

Claims use since Nov. 1, 1938.

Ser. No. 414,399. GEMLOID CORPORATION, New York, N. Y. Filed Dec. 31, 1938.

Metalite

For Post Cards.

Claims use since Jan. 10, 1937.

Ser. No. 415,056. EVELYN WALKER ROBERT, Washington, D. C. Filed Jan. 20, 1939.

Eve's Rib

For Newspaper Column.

Claims use since Oct. 23, 1938.

Ser. No. 415,529. TOWSON NURSERIES, INC., Towson, Md. Filed Feb. 2, 1939.

The FOUR SEASONS

For Publication Pertaining to the Care of Trees, Plants, Descriptions of Gardens, Which Magazine is Published Periodically.

Claims use since February, 1931.

Ser. No. 415,836. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Feb. 9, 1939.

GANG BUSTERS

For Scripts for a Series of Commercial Radio Broadcasts Sold as a Publication in Trade.

Claims use since Jan. 6, 1936.

Ser. No. 416,766. GO PUBLISHING COMPANY, INC., Washington, D. C. Filed Mar. 7, 1939.

GO

THE MAGAZINE OF WASHINGTON LIFE

The words "The Magazine of Washington Life" are disclaimed apart from the mark.

For Magazine.

Claims use since July 15, 1938.

CLASS 39

Clothing

Ser. No. 399,711. C. CRAWFORD HOLLIDGE, LTD., Boston, Mass. Filed Nov. 13, 1937.



Applicant disclaims "Mode Fashions" apart from the mark.

For Women's, Misses', and Children's Outer Wearing Apparel and Combinations of Garments and Accessories—Namely, Sweaters, Vests, Scarves, Hats, Bathrobes, Bathing Suits, Dressing Gowns, Mufflers, Raincoats, Caps,

Ser. No. 412,595. WILLIAM A. DARRAH, Chicago, Ill. Filed Nov. 10, 1938.



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CLASS 39

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Applicant disclaims "Mode Fashions" apart from the mark.

For Women's, Misses', and Children's Outer Wearing Apparel and Combinations of Garments and Accessories—Namely, Sweaters, Vests, Scarves, Hats, Bathrobes, Bathing Suits, Dressing Gowns, Mufflers, Raincoats, Caps,

Handkerchiefs, Leather Gloves, Fabric Gloves and Combinations Thereof, Outer Belts, Rubber Bathing Caps, Bathing Shoes, Outer Bathing Suit Belts, Straw Sun Hats, Beach Coats, Halters, Kerchiefs, Scarves, Knitted Hose, Knitted Mittens, Knitted Scarves, Knitted Toques, Knitted Hats, Slacks, Slack Suits, Shorts, Culottes, Fur Scarves, Fur Hats, Fur Gloves, Fur Capes, Fur Wraps, Fur Boleros, Fur Jackets and Jacquettes, Negligees, Kimonos, Pajamas, Children's Hats, Children's Play Suits, Children's Bathing Shoes, Children's Housecoats, Children's Pajamas, Corsets, One-Piece Foundation Garments, Panty-Girdles, Stepin-Girdles, Garter Belts, Padded Brassières, Brassières, Bandeaux.
Claims use since Feb. 27, 1936.

Ser. No. 403,521. HARRY RAND, doing business as Rand & Rand, Philadelphia, Pa. Filed Feb. 28, 1938.

Ran-Dee

For Children's Dresses.
Claims use since Feb. 14, 1938.

Ser. No. 406,902. HYMAN BASHKES, doing business as Triangle Shoe Co., New York, N. Y. Filed May 31, 1938.

PHYSICAL ARCH

For Men's, Women's, and Children's Shoes Made of Leather, Rubber, or Fabric or Combinations Thereof.
Claims use since May 17, 1938.

Ser. No. 412,520. MUTUAL ROSENBLOOM CORPORATION, New York, N. Y. Filed Nov. 8, 1938.

Paddock 

For Women's and Misses' Dresses.
Claims use since Sept. 15, 1938.

Ser. No. 412,522. MUTUAL ROSENBLOOM CORPORATION, New York, N. Y. Filed Nov. 8, 1938.

Melanie

For Women's and Misses' Wearing Apparel—Namely, Dresses, Gowns, Coats, Suits, Wraps, Skirts, and Blouses.
Claims use since May 2, 1938.

Ser. No. 412,961. DONNELLY GARMENT SALES COMPANY, Kansas City, Mo. Filed Nov. 19, 1938.

PLATONICS

For Women's and Misses' Suits, Slacks, Shirts, Shorts, Skirts, Coats, and Leisure-Alls or Togs—Namely, Playsuits, with or without Skirts, Overalls, Beach, House, and Bush Coats.
Claims use since Oct. 14, 1938.

Ser. No. 413,200. ROYAL KNITTING MILLS, INC., Chicago, Ill. Filed Nov. 26, 1938.

fluff

For Mittens and Gloves Made of Knitted Fabric.
Claims use since Aug. 25, 1938.

Ser. No. 413,391. COMMONWEALTH SHOE AND LEATHER COMPANY, Whitman, Mass. Filed Dec. 2, 1938.

BOSTONIAN
Zephyrs
ZEPHFLEX PROCESS

The word "Process" is disclaimed apart from the mark.
Applicant is the owner of registered Trade-Mark No. 55,669, effective under 10-year proviso.
For Men's Shoes of Leather, Rubber, Fabric or Combinations Thereof.
Claims use since Aug. 15, 1938.

Ser. No. 413,690. HARRY A. SIMON & BRO., New York, N. Y. Filed Dec. 10, 1938.

Harmor
Sportswear

The term "Sportswear" is disclaimed apart from the mark.
For Men's and Boys' Leather, Cotton, and Wool Gloves and Mittens; Men's and Boys' Knitted and Cloth Bathing Suits and Trunks, Men's and Boys' Knitted and Cloth Polo and Basque Shirts, Men's and Boys' Sweaters (Wool, Part-Wool, Rayon, and Cloth); Men's and Boys' Wool, Part-Wool, and Cotton Mackinaws, Windbreakers, Coats, and Jackets; Men's and Boys' Raincoats, Men's and Boys' Leather and Imitation Leather Jackets and Coats, Men's and Boys' Cotton and Wool Pants, Men's and Boys' Sheep Lined Cloth and Leather Coats, Children's and Infants' Knitted and Cloth Bathing Suits, Children's and Infants' Knitted and Leather Gloves and Mittens, and Hosiery for Men and Children, Including Men's Socks.
Claims use since Nov. 11, 1933.

Ser. No. 413,781. KRIST GUDNASON, doing business as Alice Frock Company, Oakland, Calif. Filed Dec. 13, 1938.

A Lady Alice CREATION

Applicant disclaims the word "Creation" apart from the mark shown.
For the Following Women's Garments—Dresses, Pajamas, Wrap-Around Dresses, Slacks, Overalls, Play Suits, Sun Suits, Culottes, Blouses, Shirts, Skirts, Housecoats, Smocks, Boleros, Jackets, Coats, Slack Suits, Aprons.
Claims use since Jan. 7, 1936.

Ser. No. 414,077. HERBERT GEORGE MYERS, doing business as My-Len Sales Company, Chicago, Ill. Filed Dec. 21, 1938.

My-Len

For Hosiery.
Claims use since Feb. 8, 1938.

Ser. No. 414,601. KITTY KELLY SHOE CORPORATION, New York, N. Y. Filed Jan. 7, 1939.

kitty kelly

For Men's, Women's, and Children's Shoes of Leather, Fabric, Rubber, and Cloth, and Combination of these Materials; Spats, Heels, and Inner and Outer Soles; Uppers, Tongues, Toe Caps, Hosiery, Rubbers, and Overshoes.
Claims use since 1929.

Ser. No. 414,726. JOS. S. COHEN & SONS CO., INC., New York, N. Y. Filed Jan. 12, 1939.

SEA BREEZE Batiste
FOR ALL DAY WEAR
A Winnie Mae FROCK
REG. U. S. PAT. OFF.
Created by JOS. S. COHEN & SONS CO. INC.

The designations "Reg. U. S. Pat. Off.", "For All Day Wear", "Batiste", "Frock", and "Created by" are disclaimed apart from the mark.
For Ladies' and Misses' Frocks and Dresses.
Claims use since March, 1936.

Ser. No. 414,738. INFANTICIPATING DRESS CO., New York, N. Y. Filed Jan. 12, 1939.

Infanticipating

For Ladies' Dresses.
Claims use since Sept. 15, 1938.

Ser. No. 415,307. STERN, MERRITT CO., INC., New York, N. Y. Filed Jan. 27, 1939.

BARALARD

For Neckties.
Claims use since Dec. 15, 1938.

Ser. No. 415,310. STERN, MERRITT CO., INC., New York, N. Y. Filed Jan. 27, 1939.

INDRA

For Neckties.
Claims use since Dec. 15, 1938.

Ser. No. 415,535. MORRIS SOBELMAN, doing business as Perfect Garment Company, Baltimore, Md. Filed Feb. 2, 1939.



No claim is made to the word "Spun" apart from the mark.
For Sports Wear for Women—Namely, Outer Shorts, Slacks, and Playsuits.
Claims use since Jan. 9, 1939.

Ser. No. 415,831. BYER-ROLNICK COMPANY, Dallas, Tex. Filed Feb. 9, 1939.

The GUARDEX

For Hats for Men and Boys.
Claims use since Jan. 12, 1939.

Ser. No. 416,040. H. C. COHN & CO., Rochester, N. Y. Filed Feb. 15, 1939.

VARSITY STRIPES

The word "Stripes" is disclaimed apart from the mark.
For Neckties.
Claims use since May 21, 1936.

Ser. No. 416,045. H. C. COHN & Co., Rochester, N. Y. Filed Feb. 15, 1939.

OCTAVIO TWILLS

The word "Twills" is disclaimed apart from the mark.
For Neckties.
Claims use since May 21, 1936.

Ser. No. 416,075. KATE SMITH, New York, N. Y. Filed Feb. 15, 1939.



Kate Smith

STOUTS

The portrait and signature are those of the applicant. No claim is made to the word "Stouts".
For Ladies' Undergarments—Namely, Slips, Panties, Nightgowns, Pajamas, Chemise and Dance Sets in the Form of Brassière and Panties.
Claims use since Feb. 1, 1939.

Ser. No. 416,090. BALTIMORE TROUSER COMPANY, INC., Baltimore, Md. Filed Feb. 16, 1939.

Woodholme

For Sport Shirts, Slacks, and Trousers for Men and Boys.
Claims use since Dec. 18, 1936.

Ser. No. 416,122. THE SUPERB GLOVE COMPANY, Johnstown, N. Y. Filed Feb. 16, 1939.

Sidewal

For Gloves Made of Leather, Fabric, and Combinations Thereof.
Claims use since October, 1938.

Ser. No. 416,160. SOL L. ROSENBLATT & Co., INC., New York, N. Y. Filed Feb. 17, 1939.

Miss RITZ

For Nightgowns, Slips, Pajamas, Bed Jackets, Step-Ins, Chemises, and Bloomers.
Claims use since January, 1939.

Ser. No. 416,164. SIGMUND STURM, New York, N. Y. Filed Feb. 17, 1939.



For Ladies' Hats and Dresses.
Claims use since Feb. 1, 1939.

Ser. No. 416,384. J. C. PENNEY COMPANY, Wilmington, Del, and New York, N. Y. Filed Feb. 24, 1939.

TOWNCRAFT

For Men's and Boys' Suspenders, Belts Intended for Personal Wear, and Hose Supporters.
Claims use since Nov. 12, 1937.

Ser. No. 416,407. DRESS-WELL NECKWEAR CO., INC., New York, N. Y. Filed Feb. 25, 1939.



For Men's and Boys' Neckties and Mufflers.
Claims use since Oct. 27, 1937.

Ser. No. 416,514. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis Mo. Filed Feb. 28, 1939.

Dianne

For Shoes Made of Leather and Fabric, and Combinations Thereof.
Claims use since Feb. 11, 1939.

Ser. No. 416,701. BEN RUBIN, INC., New York, N. Y. Filed Mar. 4, 1939.

Miss Myrna Jr.

For Ladies' Dresses.
Claims use since Dec. 14, 1938.

Ser. No. 416,748. RUNNYMEDE MILLS, INC., Tarboro, N. C. Filed Mar. 6, 1939.

Runnymede

For Hosiery.
Claims use since June, 1934.

Ser. No. 416,858. LEFMAN BROTHERS COMPANY, Chicago, Ill. Filed Mar. 9, 1939.

THE ' FAIR ' TRAVELER

For Ladies' Hats.
Claims use since Jan. 1, 1939.

Ser. No. 416,875. SHANNON HOSIERY MILLS, INC., Columbus, Ga. Filed Mar. 9, 1939.

SHALEEN

For Hosiery.
Claims use since Feb. 17, 1939.

Ser. No. 417,004. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 13, 1939.

Staccatoes

For Shoes Made of Leather, Fabric, or Combinations Thereof.
Claims use since Oct. 1, 1938.

Ser. No. 417,060. NU-WAY SHOE CO., INC., New York, N. Y. Filed Mar. 14, 1939.

NATURAL CROSS SHOES

The word "Shoes" is disclaimed apart from the mark.
For Women's and Children's Shoes, Made of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since Jan. 27, 1939.

Ser. No. 417,077. BELLE KNITTING CORP., New York, N. Y. Filed Mar. 15, 1939.

Van Arden

For Ladies' and Children's Underwear.
Claims use since Dec. 7, 1938.

Ser. No. 417,112. AVON SOLE COMPANY, Holbrook, Mass. Filed Mar. 16, 1939.

Du-Flex Ropee

For Composition Soles and Heels for Shoes.
Claims use since July 11, 1938.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 415,426. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Jan. 30, 1939.

BABYFAIR

For Art Needlework Package Outfits Containing One or More of the Following Products—Embroidery-Work, Knitting-Work, Crocheting-Work and Similar Fancy Work and Art Needlework, Partly Completed, Stamped, Cut or Otherwise Prepared for Completion by the Customer, Used as or in Connection with Suitable Foundation Materials for Articles of Wearing Apparel for Infants or for Products Used by or for Infants.
Claims use since Dec. 15, 1938.

Ser. No. 416,049. THE A. J. DONAHUE CORPORATION, Milford, Conn. Filed Feb. 15, 1939.

GLAMOUR GIRL

For Non-Electrical Hair Curlers and Hair Wavers, Hair Clips, and Hair Pins.
Claims use since Jan. 30, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 375,748. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 9, 1936.

Nupuf

For Cotton Pile Fabrics in the Piece.
Claims use since Feb. 29, 1936.

Ser. No. 403,019. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y. Filed Feb. 14, 1938. Under 10-year proviso.

"LOOK FOR THE NAME IN THE SELVAGE"



The words "Look for the Name in the Selvage" are disclaimed apart from the mark.
For Piece Goods of Satin, Silk, Artificial Silk, Mixtures of Silk and Artificial Silk, Silk and Wool, and Silk and Cotton.
Claims use since Jan. 1, 1894.

Ser. No. 405,883. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y. Filed Apr. 30, 1938.

GENUINE LORRAINE

Tricolora

The word "Genuine" is disclaimed apart from the mark. Applicant is owner of T. M. Reg. No. 218,398 for the mark "Lorraine" effected under the 10-year proviso.
For Fabrics in the Piece of Cotton, Silk, Wool, Linen, and/or Combinations Thereof, and Worsted in the Piece.
Claims use since February, 1938.

Ser. No. 411,455. ARTHUR S. HEIMAN, INC., New York, N. Y. Filed Oct. 10, 1938.

HYBRAND LAMO PRINTS OF FASHION

All wording except "Lamo" and "Hybrand" is disclaimed apart from the mark.
For Rayon and Acetate Piece Goods.
Claims use since Sept. 14, 1938.

Ser. No. 416,071. MOUAKAD BROS. INC., New York, N. Y. Filed Feb. 15, 1939.

MILLONARIO

For Piece Goods—to Wit, Silk, Wool, Cotton, Rayon, Acetate, and Combinations Thereof.
Claims use since Dec. 5, 1938.

Ser. No. 416,178. COHN-HALL-MARX CO., New York, N. Y. Filed Feb. 18, 1939.

CREPE PETROUSKA

Applicant disclaims the right to the exclusive use of the word "Crepe."
For Cotton, Rayon, Acetate and/or Silk Piece Goods.
Claims use since July 14, 1938.

Ser. No. 416,483. SHIRLEY SILK CO., INC., New York, N. Y. Filed Feb. 27, 1939.

"CRUISAWAY"
A SHIRLEY FABRIC

The words "A Shirley Fabric" are disclaimed apart from the mark as shown on the drawing.
For Silk Textile Fabrics in the Piece.
Claims use since Dec. 1, 1937.

Ser. No. 416,812. NATIONAL INDUSTRIES FOR THE BLIND, New York, N. Y. Filed Mar. 8, 1939.

NATIONAL INDUSTRIES FOR THE BLIND NIB

For Linen Towels, Waffle Mats, Hit and Miss Rugs, and Crib Blankets.
Claims use since Dec. 5, 1938.

Ser. No. 416,832. BEHR-MANNING CORPORATION, Troy, N. Y. Filed Mar. 9, 1939.

NORZON

For Pile Fabrics.
Claims use since Feb. 15, 1939.

Ser. No. 416,833. BEHR-MANNING CORPORATION, Troy, N. Y. Filed Mar. 9, 1939.

EVALUR

For Pile Fabrics.
Claims use since Feb. 15, 1939.

Ser. No. 416,834. BEHR-MANNING CORPORATION, Troy N. Y. Filed Mar. 9, 1939.

ELECTRO COATED

No claim is made to the words "Electro" and "Coated" used alone.
For Pile Fabrics.
Claims use since Feb. 15, 1939.

Ser. No. 416,957. ARTHUR KAHN CO., INC., New York, N. Y. Filed Mar. 11, 1939.

Sierra Cloth

The word "Cloth" is disclaimed apart from the mark.
For Cotton Piece Goods Both With and Without a Water Repellent Finish.
Claims use since June 8, 1938.

Ser. No. 417,081. THE COLUMBIA MILLS, INC., New York, N. Y. Filed Mar. 15, 1939.

LINOLENE

For Window Shade Cloth in the Piece.
Claims use since Jan. 1, 1915.

Ser. No. 417,089. GOODALL WORSTED COMPANY, Sanford, Maine. Filed Mar. 15, 1939.

SUNFROST

For Piece Goods Made from the Following Ingredients and/or Combinations Thereof—Animal Fibers, Such as Mohair, Wool, and Silk; Vegetable Fibers, Such as Cotton and Linens, also Synthetics.
Claims use since Feb. 1, 1939.

CLASS 43

Thread and Yarn

Ser. No. 415,265. SEA ISLAND THREAD MFG. CORP., New York, N. Y. Filed Jan. 26, 1939.

SEA-LASTIC
SEA ISLAND SEWING THREAD
COVERED ELASTIC THREAD
SEA ISLAND THREAD MFG. CORP. NEW YORK

No claim is made to the words "Sea Island Sewing Thread", "Covered Elastic Thread" and "New York" apart from the mark.
For Rubber Covered Thread.
Claims use since May 19, 1938.

Ser. No. 415,707. DRITZ-TRAUM COMPANY, INC., New York, N. Y. Filed Feb. 7, 1939.

HIAWATHA

The mark is the name of a celebrated Mohawk chief and the hero of Longfellow's poem.
For Elastic Thread.
Claims use since July 10, 1938.

Ser. No. 416,263. THE NATIONAL SILK COMPANY, INC., South Coventry, Conn. Filed Feb. 20, 1939.

CREPONNE

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.
Claims use since Jan. 18, 1939.

Ser. No. 416,438. REGENT BRAID AND TRIMMING CO. INC., New York, N. Y. Filed Feb. 25, 1939.



The drawing is lined for red. The word "Yarn" is disclaimed apart from the mark.
For Yarn.
Claims use since January, 1939.

Ser. No. 416,853. FLEISHER YARNS, INC., New York, N. Y. Filed Mar. 9, 1939.

FLEISHER'S

Applicant is the owner of registrations Number 50,388 and Number 282,624 both effected under the 10-year proviso.

For Worsted Yarns, Wool Yarns, Rayon Yarns, Silk Yarns, Cotton Yarns, Yarns Composed of a Mixture of Rayon and Cotton, and Yarns Composed of a Mixture of Worsted and Rayon.

Claims use since 1875 on worsted yarns, since about 1913 on worsted and rayon yarns, since the spring of 1929 on rayon yarns, since May 1930 on wool yarns, and has been used continuously in the business of the applicant since May, 1936 on silk yarns and since December 29, 1938 on cotton yarns and yarns composed of rayon and cotton.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 413,708. MONROE HARRISON, Chicago, Ill. Filed Dec. 12, 1938.

Day Ray Orange

The word "Orange" is disclaimed apart from the mark.

For Fruit Juices and Fruit Concentrates for Beverage Purposes.

Claims use since Dec. 7, 1938.

Ser. No. 413,711. MONROE HARRISON, Chicago, Ill. Filed Dec. 12, 1938.

2-N-1 Cola

The word "Cola" is disclaimed apart from the mark.

For Fruit Juices and Fruit Concentrates for Beverage Purposes.

Claims use since Dec. 7, 1938.

Ser. No. 414,521. J. FRANK & SONS, Philadelphia, Pa. Filed Jan. 5, 1939.

Frank's NECTAR

The word "Nectar" is disclaimed except as shown.

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used in Making the Same.

Claims use since Apr. 10, 1937.

Ser. No. 415,516. LANE & CAMPBELL, Providence, R. I. Filed Feb. 2, 1939.

PHOSA

For Concentrate and Syrup for Making Nonalcoholic Maltless Beverages Sold as Soft Drinks, or as a Mixer.

Claims use since Jan. 23, 1939.

Ser. No. 416,452. BOONE ROCK BOTTLING COMPANY, Spencer, N. C. Filed Feb. 27, 1939.

DANIEL BOONE



The picture is that of Daniel Boone, the pioneer and hunter.

For Maltless, Nonalcoholic, Noncereal Beverages in the Nature of Soft Drinks and Syrups and Extracts for Making the Same.

Claims use since Jan. 1, 1927.

Ser. No. 416,475. ORANGE-CRUSH COMPANY, Chicago, Ill. Filed Feb. 27, 1939.



The portrait is fanciful.

For Nonalcoholic, Noncereal, Maltless Beverages and Compound Concentrates and Sirups for the Manufacture Thereof.

Claims use since Feb. 27, 1937.

Ser. No. 416,620. SILVER SPRINGS WATER COMPANY, Detroit, Mich. Filed Mar. 2, 1939.

MATÉ COLA

The words "Maté" and "Cola" are disclaimed apart from the mark.

For Nonalcoholic, Noncereal, Maltless Beverage, Sold as a Soft Drink and Sirups and Extract for Making the Same.

Claims use since Jan. 28, 1939.

Ser. No. 416,728. HARLINGEN CANNING CO., Harlingen, Tex. Filed Mar. 6, 1939.

BESTEX

For Canned Citrus Juices for Beverage Purposes.

Claims use since Mar. 15, 1937.

Ser. No. 417,247. WUNDER BREWING COMPANY, Oakland, Calif. Filed Mar. 18, 1939.

BINGO

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Sirups for Making the Same.

Claims use since Dec. 1, 1937.

Ser. No. 417,304. SCHUESSLER, HAMILTON COMPANY, St. Louis, Mo. Filed Mar. 20, 1939.

Safety-thirst

For Maltless, Nonalcoholic Beverages Sold as Soft Drinks, and Syrups and Extracts for Making the Same.

Claims use since Mar. 14, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 402,265. LAPP LABORATORIES, INC., Nevada, Iowa. Filed Jan. 24, 1938.

CALF-TONE

The word "Calf" is disclaimed apart from the mark.

For Feed Concentrate for Calves.

Claims use since Oct. 1, 1937.

Ser. No. 405,437. CENTRAL CALIFORNIA PRODUCERS, Oakland, Calif. Filed Apr. 19, 1938.

VITAMIN C ZUND

Said corporation is the owner of trade-mark registration No. 291,824, Feb. 23, 1932, for fresh fruits and fresh vegetables. "Vitamin C" is disclaimed apart from the mark.

For Fruit and Vegetable Juices for Food Purposes.

Claims use since Mar. 26, 1938.

Ser. No. 410,467. HICKORY DAIRY CO., Holly, Mich. Filed Sept. 12, 1938.

LIFE BEGINS WITH MILK

The word "Milk" is disclaimed apart from the mark.

For Butter, Cheese, Milk, and Cream.

Claims use since Aug. 25, 1938.

Ser. No. 410,561. RUSSELL STOVER, doing business as Zephyr Freeze Company, Kansas City, Mo. Filed Sept. 14, 1938.

Zephyr Freeze

For Ice Cream, Ices, Sherbets, and Frozen Milk Confections.

Claims use since June 15, 1937.

Ser. No. 411,375. THE GRAND UNION COMPANY, New York, N. Y. Filed Oct. 7, 1938.

SUPER-ETTE

For Baking Powder, Candy, Canned and Bottled Fruits, Canned Pimientos, Canned Vegetables, Catsup, Chewing Gum, Chocolate, Chocolate Syrup for Food Purposes, Coconnut, Coffee, Condensed and Evaporated Milk, Corn Starch, Crackers, Dessert Powder, Dog Food, Dried Prunes, Flavoring Extracts for Food Purposes, Fruit Juices for Food Purposes, Fruit Preserves, Ginger Bread Mix, Jellies, Macaroni, Mayonnaise, Mustard, Olive Oil, Peanut Butter, Pickle Relish, Pickles, Poultry Feeds, Prepared Flours for Pancakes, Pie Crust and Cakes, Rice, Salad Dressing, Sandwich Spread, Soup, Spaghetti, Sugar, Tea, Tomato Juice, Tomato Paste, Tomato Sauce, and Vinegar.

Claims use since June 6, 1938.

Ser. No. 414,577. G. ROSSANO & BRO. INC., New York, N. Y. Filed Jan. 6, 1939.

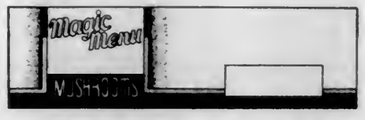


No claim is made to the representation of a label or of tomatoes, or to any words or numbers other than "Gilda" and "G. Rossano & Bro. Inc." apart from the mark as shown. The picture of a girl is fanciful.

For Canned Tomatoes.

Claims use since Jan. 1, 1937.

Ser. No. 415,290. HIGHLAND SALES COMPANY, Denver, Colo. Filed Jan. 27, 1939.



No claim is made to the representation of a label and to the word "Mushrooms" apart from the mark.
For Canned Mushrooms.
Claims use since Dec. 16, 1938.

Ser. No. 415,364. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed Jan. 28, 1939.

PORKEES

For Pork Sausages.
Claims use since Sept. 8, 1932.

Ser. No. 415,385. THE FRITO COMPANY, Dallas, Tex. Filed Jan. 30, 1939.

Fritos

Applicant is the sole owner of Trade-Mark No. 306,005, issued to Daisy D. Doolin, Aug. 29, 1933.
For Corn Chips.
Claims use since Mar. 27, 1932.

Ser. No. 415,448. FINK BAKING CORPORATION, New York, N. Y. Filed Jan. 31, 1939.

PEASANT BREAD

No claim is made to the word "Bread" apart from the mark shown.
For Bread.
Claims use since Nov. 1, 1938.

Ser. No. 415,584. DIPLOMAT PRODUCTS, INC., New York, N. Y. Filed Feb. 4, 1939.

SIL FOO

For Chicken Chow Mein.
Claims use since Oct. 5, 1938.

Ser. No. 415,667. SAFEWAY STORES, INC., doing business as General Food Products Co., Vernon and Oakland, Calif. Filed Feb. 6, 1939.

RED HILL

For Canned Tomatoes.
Claims use since Oct. 6, 1938.

Ser. No. 415,842. THE FRITO COMPANY, Dallas, Tex. Filed Feb. 9, 1939.

Efsees

For Peanut Butter Sandwiches, Butter Flavored, and Peanut Butter Sandwiches, Cheese Flavored.
Claims use since June 28, 1937.

Ser. No. 415,859. THE NUNNALLY COMPANY, Atlanta, Ga. Filed Feb. 9, 1939. Under 10-year proviso.

Nunnally's

Applicant is owner of trade-mark registrations No. 72,383, dated Jan. 19, 1909, and No. 157,727, dated Aug. 15, 1922.
For Candy.
Claims use since 1893.

Ser. No. 415,880. ALBERT EHLERS, INC., Brooklyn, N. Y. Filed Feb. 10, 1939.



No claim is made to the words "Coffee" and "Better Coffee" apart from the mark.
For Coffee.
Claims use since Nov. 4, 1938.

Ser. No. 416,283. SARAH E. CLARK CO., New York, N. Y. Filed Feb. 21, 1939.



The word "Puro" is disclaimed apart from the mark as shown.
For Chile-Con-Carne.
Claims use since Feb. 1, 1939.

Ser. No. 416,539. CLINTON COMPANY, Clinton, Iowa. Filed Mar. 1, 1939.

Clintola

For Salad Oil.
Claims use since Jan. 29, 1938.

Ser. No. 416,626. SOCIEDAD AGRICOLA PARAMONGA, Lima, Peru. Filed Mar. 1, 1939.

CANAVAL

For Granulated Sugar.
Claims use since Jan. 1, 1889.

Ser. No. 416,629. SOCIEDAD AGRICOLA PARAMONGA, Lima, Peru. Filed Mar. 1, 1939.

PARAMONGA

For Granulated Sugar.
Claims use since Aug. 1, 1926.

Ser. No. 416,715. ALEXANDER MARKETING COMPANY, San Benito, Tex. Filed Mar. 6, 1939.



For Fresh Vegetables.
Claims use since March, 1938.

Ser. No. 416,818. SHEDD PRODUCTS COMPANY, Detroit, Mich. Filed Mar. 8, 1939.

PALM-OLA

For Oleomargarine.
Claims use since June 7, 1918.

Ser. No. 416,870. THE RATH PACKING COMPANY, Waterloo, Iowa. Filed Mar. 9, 1939.

PAR-TEE LOAF

The word "Loaf" is disclaimed apart from the mark.
For Meat Loaf.
Claims use since Feb. 23, 1939.

Ser. No. 417,058. CARL ULRIK FOHRMANN KRAG HANSEN, Copenhagen, Denmark. Filed Mar. 14, 1939.

Rocambert

For Cheese.
Claims use since Feb. 5, 1934.

Ser. No. 417,279. GREEN BAY FOOD COMPANY, Green Bay, Wis. Filed Mar. 20, 1939.

Salmold

For Canned Prepared Salad.
Claims use since Sept. 6, 1938.

Ser. No. 417,287. MAGNOLIA CITRUS ASSOCIATION, Porterville, Calif. Filed Mar. 20, 1939.

MANAGER

For Fresh Citrus Fruit.
Claims use since Nov. 12, 1936.

Ser. No. 417,292. METZGERS, INCORPORATED, Greenville, Mich. Filed Mar. 20, 1939.

GOOD LUCK

Applicant is the owner of registration No. 196,904, dated Mar. 31, 1925, and of the trade-mark shown therein.
For Potatoes and Onions.
Claims use since July 21, 1924, on potatoes; since Sept. 3, 1936, on onions.

Ser. No. 417,317. THE ZANOL PRODUCTS CO., Cincinnati, Ohio. Filed Mar. 20, 1939.

YUM-YUM

For Dog Food.
Claims use since Oct. 17, 1938.

Ser. No. 417,336. ARNOLD ADOLPH KAEHLER, doing business as Sturdiwheat Company, Red Wing, Minn. Filed Mar. 21, 1939.

STURDIWHEAT

For Basic Food Product Made from Wheat for Use as a Breakfast Ceral Food and Also for Use in Baking, and in the Preparation of Pancakes and Waffles, and for the Breading of Meat and Fish.
Claims use since Aug. 28, 1938.

CLASS 47

Wines

Ser. No. 417,012. ITALIAN SWISS COLONY, San Francisco, Calif. Filed Mar. 13, 1939.

BEL-AIR

For Wines.
Claims use since Feb. 28, 1939.

Ser. No. 417,013. ITALIAN SWISS COLONY, San Francisco, Calif. Filed Mar. 13, 1939.

WASCO

For Wines.
Claims use since Feb. 28, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 404,490. RENO BREWING COMPANY, INC., Reno, Nev. Filed Mar. 25, 1938.



No claim is made to the expression "It Can't Be Beat" apart from the mark as shown.
For Beer.
Claims use since 1906.

Ser. No. 412,350. MATHIE-RUDER BREWING COMPANY, Wausau, Wis. Filed Nov. 3, 1938.



For Beer.
Claims use since Oct. 10, 1938.

Ser. No. 417,196. AMERICAN BREWING COMPANY, New Orleans, La. Filed Mar. 18, 1939.



For Beer and Ale.
Claims use since Feb. 25, 1939.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 414,584. WHYTE & MACKAY, LIMITED, Glasgow, Scotland. Filed Jan. 6, 1939.



The name "Whyte & Mackay" is a facsimile signature written by Mr. Charles Mackay, a former member of the firm who is now deceased. All spoken symbols with the exception of the facsimile signature and the representation of the outline of a label are disclaimed apart from the complete mark as shown.
For Whisky.
Claims use since Nov. 10, 1938.

Ser. No. 416,936. AJAX LIQUOR COMPANY, INC., Houston, Tex. Filed Mar. 11, 1939.

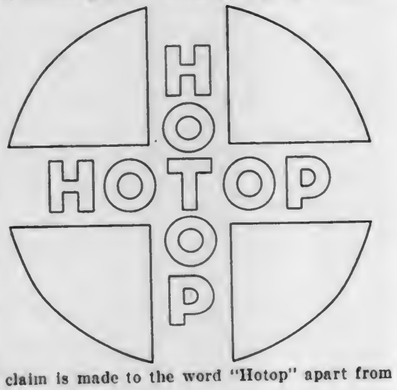
AJAX

For Gin and Whiskey.
Claims use since Apr. 8, 1937.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 403,686. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1938.



No claim is made to the word "Hotop" apart from the mark.
For Covers for Ingot Molds.
Claims use since Apr. 26, 1937.

Ser. No. 413,378. RUTH KAUFMAN, New York, N. Y. Filed Dec. 1, 1938.



For Feather Trees.
Claims use since Oct. 1, 1938.

Ser. No. 413,416. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Dec. 2, 1938.



The wording "Transparent Packaging Material" is disclaimed apart from the mark.
For Plastic Compositions in Powdered Form or in Molded or Cast Form, Also in the Form of Sheets or Films Suited for Transparent Wrapping, Containers, Etc.
Claims use since Oct. 19, 1938.

Ser. No. 416,595. AMERICAN SEAL-KAP CORPORATION OF DELAWARE, Long Island City, N. Y. Filed Mar. 2, 1939.

ASKCO

For Milk Bottle Caps.
Claims use since Feb. 16, 1939.

Ser. No. 416,819. LANDON P. SMITH, INC., Irvington, N. J. Filed Mar. 8, 1939.

Red Devil

For Bill-Boards.
Claims use since Feb. 8, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 9, 1939

367,004. FLAVORINGS FOR FOOD PURPOSES, INCLUDING LEMON, MAPLE, BANANA, ALMOND, ANGEL FOOD, ORANGE, AND VANILLA. EDWARD SOMMERFIELD, Cincinnati, Ohio.
Filed September 16, 1935. Serial No. 369,379. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,005. ELECTRIC VIBRATORS, INFRA RED RAY LAMPS, AND THERAPEUTIC LAMPS. KNAPP-MONARCH COMPANY, doing business as Kwikway Company, St. Louis, Mo.
Filed August 3, 1936. Serial No. 381,768. PUBLISHED FEBRUARY 22, 1938. Class 44.

367,006. COATING EFFECTING POLISHES POSSESSING THE INCIDENTAL PROPERTIES OF A CLEANER FOR FURNITURE, AUTOMOBILE BODIES, AND VARNISHED, LACQUERED, PAINTED, OR ENAMELED SURFACES. LYMAN W. CARR, Fostoria, Ohio.
Filed December 2, 1936. Serial No. 386,203. PUBLISHED MARCH 9, 1937. Class 16.

367,007. CANNED FRUITS. UNITED PACKING CORPORATION, Oakland, Calif.
Filed February 10, 1937. Serial No. 388,735. PUBLISHED APRIL 6, 1937. Class 46.

367,008. NIGHT GOWNS, PAJAMAS, NEGLIGEES, BED JACKETS, SLIPS, PETTICOATS, BRASSIÈRES, PANTIES, BLOOMERS, GIRDLES, GARTER BELTS, CHEMISES, AND CORSELETS. HONOR MAID NEGLIGEE CO., INC., New York, N. Y.
Filed April 17, 1937. Serial No. 391,476. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,009. MEN'S, WOMEN'S, AND CHILDREN'S TOP COATS, OVERCOATS, AND RAINPROOF COATS, SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS THEREOF, ETC. LAMM BROTHERS, INCORPORATED, Baltimore, Md.
Filed May 6, 1937. Serial No. 392,372. PUBLISHED AUGUST 24, 1937. Class 39.

367,010. INDUSTRIAL AND SERVICE GARMENTS—NAMELY, OVERALLS, JUMPERS, UNIFORMS, AND CAPS FOR MEN, WOMEN, AND CHILDREN. LOUIS VINEBERG, doing business as Industrial Garment Co., Los Angeles, Calif.
Filed May 7, 1937. Serial No. 392,460. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,011. FRESH LIMES. EVERETT JOHNSTON, doing business as Subtropical Sales Company, Lucadia, Calif.
Filed June 1, 1937. Serial No. 393,490. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,012. FISH HOOKS AND LURES. EMIL EDWARD DEPPE, doing business as E. E. Deppe, Duluth, Minn.
Filed July 8, 1937. Serial No. 394,981. PUBLISHED JANUARY 24, 1939. Class 22.

367,013. WINES. G. LOEWUS & Co., INC., Newark, N. J.
Filed July 16, 1937. Serial No. 395,305. PUBLISHED NOVEMBER 30, 1937. Class 47.

367,014. AQUARIUM EQUIPMENT SUCH AS THERMOSTATICALLY CONTROLLED ELECTRIC HEATERS. JAMES B. MARIS, doing business as J. B. Maris Co., Bloomfield, N. J.
Filed August 7, 1937. Serial No. 396,150. PUBLISHED JULY 12, 1938. Class 21.

367,015. WOMEN'S UNDERGARMENTS—NAMELY, BRASSIÈRES. MORRIS NEWMAN, New York, N. Y.
Filed September 14, 1937. Serial No. 397,412. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,016. FACE CREAM. JADWIGA REMEDIES, INC., Brooklyn, N. Y.
Filed October 9, 1937. Serial No. 398,316. PUBLISHED AUGUST 16, 1938. Class 6.

367,017. CANNED VEGETABLES, CANDY, MAYONNAISE, GELATIN DESSERTS, TEA, AND CHEESE. ADOLPH GOLDMARK & SONS, CORP., New York, N. Y.
Filed November 2, 1937. Serial No. 399,231. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,018. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, CLEANSING CREAMS, ETC. MAISON JOUBERT, INC., New York, N. Y.
Filed November 2, 1937. Serial No. 399,240. PUBLISHED JANUARY 11, 1938. Class 6.

367,019. PHARMACEUTICAL PREPARATION CONSISTING OF A LAXATIVE AND ALKALINE EFFERVESCENT COMPOUND. LUIS M. CABALLERO, Habana, Cuba.
Filed November 18, 1937. Serial No. 399,881. PUBLISHED FEBRUARY 15, 1938. Class 6.

367,020. PLANES AND HAMMERS. THE CAPEWELL MANUFACTURING COMPANY, Hartford, Conn.
Filed November 23, 1937. Serial No. 400,049. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,021. SUSPENDERS. A. STEIN & COMPANY, Chicago, Ill.
Filed November 29, 1937. Serial No. 400,326. PUBLISHED JANUARY 17, 1939. Class 39.

367,022. RAZOR BLADES. TRIANGLE MECHANICAL LABORATORIES CORP., Brooklyn, N. Y.
Filed December 7, 1937. Serial No. 400,574. PUBLISHED FEBRUARY 8, 1938. Class 23.

367,023. MEN'S AND BOYS' SUITS, TOPCOATS, AND OVERCOATS, AND LADIES' SUITS AND COATS. LINPARK CLOTHING CORP., New York, N. Y.
Filed December 8, 1937. Serial No. 400,603. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,024. NECKTIES. SYLVIA O. PERLIN, doing business as Insignia Tie Company, Cleveland Heights, Ohio.
Filed December 9, 1937. Serial No. 400,662. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,025. HAND OPERATED ELECTRICALLY DRIVEN DRILLS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed December 10, 1937. Serial No. 400,683. PUBLISHED FEBRUARY 28, 1939. Class 21.

367,026. CATALOG AND BOOKLET COVER PAPERS. KIMBERLY-CLARK CORPORATION, Neenah, Wis.
Filed December 13, 1937. Serial No. 400,769. PUBLISHED OCTOBER 4, 1938. Class 37.

367,027. SANDBLAST HELMETS AND ASBESTOS SAFETY CLOTHING—NAMELY, APRONS, SLEEVES, COATS, PANTS, JUMPER SUITS, LEGGINGS, SPATS, HELMETS, AND GLOVES. WAHLERT PRODUCTS CORPORATION, Brooklyn, N. Y.
Filed December 14, 1937. Serial No. 400,860. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,028. MEDICINAL PREPARATION FOR THE TREATMENT OF ASTHMA, BRONCHITIS, HAYFEVER, AND SINUSITIS. ALBERT H. BINASH, doing business as Albert Laboratories, Chicago, Ill.
Filed December 20, 1937. Serial No. 401,047. PUBLISHED OCTOBER 25, 1938. Class 6.

367,029. MAGAZINE PUBLISHED WEEKLY AND AT OTHER INTERVALS. FASHION FEATURES, INC., New York, N. Y.
Filed December 20, 1937. Serial No. 401,053. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,030. RUBBER HEELS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 30, 1937. Serial No. 401,386. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,031. COMBS MADE OF HARD RUBBER. NEW YORK HAMBURGER GUMMI-WAAREN COMPAGNIE, Hamburg, Germany.
Filed December 30, 1937. Serial No. 401,399. PUBLISHED JANUARY 17, 1939. Class 40.

367,032. UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, INCLUDING SLIPS, PAJAMAS; GLOVES MADE OF LEATHER OR FABRIC, OR COMBINATIONS THEREOF; HOSIERY, SWEATERS, AND SPORT SHIRTS AND JACKETS. JULIUS KAYSER & CO., New York, N. Y.
Filed January 3, 1938. Serial No. 401,489. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,033. CATAPLASM, TABLETS AND COMPOUNDS FOR RELIEF OF RHEUMATISM, HEADACHES, HYPERACIDITY, IN AID OF DIGESTION, ETC. GEORGE STARR WHITE, Los Angeles, Calif.
Filed January 3, 1938. Serial No. 401,515. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,034. MASONRY AND PORTLAND CEMENT. GULF PORTLAND CEMENT COMPANY, Houston, Tex.
Filed January 4, 1938. Serial No. 401,530. PUBLISHED FEBRUARY 28, 1939. Class 12.

367,035. RUBBER BELTING FOR MACHINERY. DRAKE SUPPLY CO., Los Angeles, Calif.
Filed January 14, 1938. Serial No. 401,957. PUBLISHED FEBRUARY 28, 1939. Class 35.

367,036. LADIES', MEN'S, CHILDREN'S, AND INFANTS' WEARING APPAREL—NAMELY, COATS, SUITS, SWEATERS, AND LADIES', CHILDREN'S, AND INFANTS' DRESSES, SPORT SKIRTS, GLOVES, STOCKINGS, AND HATS, ALL MADE OF KNITTED FABRICS. PREMIER KNITTING MILLS, INC., New York, N. Y.
Filed January 17, 1938. Serial No. 402,020. PUBLISHED APRIL 19, 1938. Class 39.

367,037. CLOTHING, PARTICULARLY WOMEN'S AND MISSES' DRESSES. THE MAGIC SNAP-ON DRESS CO., INC., New York, N. Y.
Filed January 27, 1938. Serial No. 402,380. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,038. LAUNDRY MACHINE. EASY WASHING MACHINE CORPORATION, Syracuse, N. Y.
Filed February 12, 1938. Serial No. 402,966. PUBLISHED JULY 26, 1938. Class 24.

367,039. EYE WASH. JOHN HAYS HAMMOND, JR., Gloucester, Mass.
Filed March 7, 1938. Serial No. 403,765. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,040. CORSELETS, BRASSIÈRES, AND GIRDLES. EVEN-PUL FOUNDATIONS, New York, N. Y.
Filed March 17, 1938. Serial No. 404,171. PUBLISHED JANUARY 17, 1939. Class 39.

367,041. PUNCH PRESSES. JOHNSON MACHINE & PRESS CORPORATION, Elkhart, Ind.
Filed March 23, 1938. Serial No. 404,409. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,042. MEN'S SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. COMMONWEALTH SHOE AND LEATHER COMPANY, Whitman, Mass.
Filed April 6, 1938. Serial No. 404,938. PUBLISHED JANUARY 10, 1939. Class 39.

367,043. LEATHER SHOES. A. FREEDMAN & SONS INCORPORATED, doing business as John McVey Limited, New Bedford, Mass.
Filed April 12, 1938. Serial No. 405,153. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,044. RUM, WHISKEY, GIN, BRANDY, AND ALCOHOLIC CORDIALS. JOSEPH S. FINCH AND COMPANY, New York, N. Y., and Schenley, Pa.
Filed April 21, 1938. Serial No. 405,553. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,045. EXTRACTS AND FLAVORINGS FOR FOOD FLAVORING PURPOSES. PARAMOUNT LABORATORIES, INCORPORATED, Binghamton, N. Y.
Filed April 22, 1938. Serial No. 405,626. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,046. WRITING PAPER AND ENVELOPES. BELNAP AND THOMPSON, INC., Chicago, Ill.
Filed April 25, 1938. Serial No. 405,681. PUBLISHED FEBRUARY 28, 1939. Class 37.

367,047. HAND CREAM, NIGHT CREAM, COLD CREAM, ASTRINGENT, DEODORANT, CLEANSING CREAM, SKIN LOTION, PINE BATH OIL, JASMINE BATH OIL, FOUNDATION MAKEUP, FOUNDATION CREAM, AND BRILLIANTINE. CURTSY INCORPORATED, Brooklyn, N. Y.
Filed April 27, 1938. Serial No. 405,768. PUBLISHED JUNE 14, 1938. Class 6.

367,048. HEELS AND SOLES COMPOSED OF RUBBER AND/OR LEATHER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed April 27, 1938. Serial No. 405,773. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,049. COSMETICS AND HAIR DRESSING PRODUCTS—NAMELY, AMMONIA, ASTRINGENTS, BRILLIANTINES, MUD PACK CREAMS, ETC. RHODA JOAN WILEY, New York, N. Y.
Filed April 29, 1938. Serial No. 405,797. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,050. RESILIENT BUSHINGS FOR MECHANICAL JOINT BEARINGS AND SHAFTING. U. S. UNIVERSAL JOINTS CO., Detroit, Mich.
Filed May 5, 1938. Serial No. 406,035. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,051. FRESH CITRUS FRUIT. A. F. CALL ESTATE, Corona, Calif., assignor to Call Ranch, a co-partnership composed of Lucy T. Kirkley and Mary Call Quilici.
Filed May 16, 1938. Serial No. 406,370. PUBLISHED JANUARY 17, 1939. Class 46.

367,052. PERFUMES. ELIZABETH ARDEN, INC., New York, N. Y.
Filed May 25, 1938. Serial No. 406,703. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,053. CINNAMON ROLLS. SALLIE K. LIVELY, Amarillo, Tex.
Filed May 31, 1938. Serial No. 406,929. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,054. BLANKETS, TRICOTS, AND BED COVERS. MERKEL & KIENLIN G. M. B. H., Esslingen-Neckar, Germany.
Filed May 31, 1938. Serial No. 406,934. PUBLISHED FEBRUARY 28, 1939. Class 42.

367,055. CHAPEL TENT DRAPES. STERIL MANUFACTURING COMPANY, Omaha, Nebr.
Filed May 31, 1938. Serial No. 406,949. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,056. CANDY. SEE'S CANDY SHOPS, INC., Los Angeles, Calif.
Filed June 1, 1938. Serial No. 406,986. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,057. STERILIZERS FOR STERILIZING GLASSES, SILVERWARE, AND DISHES THROUGH THE USE OF HOT WATER, CLEAR, OR WITH STERILIZING INGREDIENTS IN SOLUTION. THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa.
Filed June 3, 1938. Serial No. 407,064. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,058. DEHYDRATED CEREAL GRASSES USED AS FOODS PER SE OR SOLD FOR USE IN OTHER FOODS. AMERICAN DAIRIES, INCORPORATED, Kansas City, Mo.
Filed June 8, 1938. Serial No. 407,210. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,059. LEATHER GLOVES, MEN'S AND BOYS' OUTER SHIRTS AND UNDERSHIRTS, PYJAMAS, BED JACKETS, BATHROBES; SWIMMING AND BATHING APPAREL—NAMELY, SUITS AND TRUNKS FOR MEN, AND SUITS, TRUNKS, BRASSIÈRES, AND HALTERS FOR WOMEN AND CHILDREN. I. & R. MORLEY LIMITED, London, England.
Filed June 9, 1938. Serial No. 407,273. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,060. PERMANENTLY TACKY ADHESIVE TYPE TAPE HAVING A PAPER BASE AND ADAPTED FOR USE IN SEALING PACKAGES. VAN CLEEF BROS., Chicago, Ill.
Filed June 10, 1938. Serial No. 407,340. PUBLISHED FEBRUARY 28, 1939. Class 37.

367,061. FRESH VEGETABLES. ROYAL A. CUTLER, Spokane, Wash.
Filed June 11, 1938. Serial No. 407,368. PUBLISHED NOVEMBER 29, 1938. Class 46.

367,062. EMULSION PREPARATION TO WHICH VITAMINS A AND D MAY BE ADDED FOR USE AS A GENERAL TONIC. PRESCRIPTION SPECIALTIES COMPANY, San Antonio, Tex.
Filed June 14, 1938. Serial No. 407,468. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,063. LADIES' PAJAMAS. BUDDY MANUFACTURING, INC., New York, N. Y.
Filed June 16, 1938. Serial No. 407,529. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,064. ELECTRICAL HEARING AID DESIGNED FOR DEAFENED PERSONS. GLOBE PHONE MANUFACTURING CORPORATION, New York, N. Y.
Filed June 25, 1938. Serial No. 407,900. PUBLISHED OCTOBER 11, 1938. Class 44.

367,065. CAN OPENERS. CHARLES G. FAWKES, Denver, Colo.
Filed June 28, 1938. Serial No. 407,976. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,066. WEEKLY COMMENTARIES AND ECONOMIC GRAPHS, PUBLICATIONS ON INVESTMENT MANAGEMENT, INVESTMENT COUNSEL, INDUSTRIAL, ECONOMIC, AND ADVISORY, OR OTHER ACTIVITIES. HENRY WHEELER CHASE, New York, N. Y.
Filed June 30, 1938. Serial No. 408,050. PUBLISHED FEBRUARY 28, 1939. Class 38.

367,067. CONCENTRATED FOOD PRODUCT HIGH IN VITAMINS FOR MAKING A MILK BEVERAGE. LARX COMPANY, INCORPORATED, also doing business as The Dietene Company, Minneapolis, Minn.
Filed July 1, 1938. Serial No. 408,111. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,068. BATHING SUITS, SWEATERS, BLOUSES, HATS, SHORTS FOR OUTER WEAR, BATH ROBES, DRESSING ROBES, LOUNGING ROBES, BEACH ROBES, AND HOUSE ROBES, SKIRTS FOR OUTER WEAR, PLAY SUITS, PAJAMAS, AND SNOW SUITS FOR WOMEN, MISSES, AND CHILDREN. LORD & TAYLOR, New York, N. Y.
Filed July 6, 1938. Serial No. 408,247. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,069. MEATS AND MEAT PRODUCTS—NAMELY, SAUSAGE, DRIED SAUSAGE, SMOKED SAUSAGE, NEW ENGLAND STYLE SAUSAGE, ETC. OSCAR MAYER & COMPANY, Chicago, Ill.
Filed July 9, 1938. Serial No. 408,350. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,070. FACE POWDER. KATHLEEN MARY QUINLAN, INC., New York, N. Y.
Filed July 12, 1938. Serial No. 408,437. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,071. CHEMICAL FERTILIZERS. THE CONSOLIDATED MINING & SMELTING COMPANY OF CANADA, LIMITED, Montreal, Quebec, Canada.
Filed July 18, 1938. Serial No. 408,596. PUBLISHED FEBRUARY 28, 1939. Class 10.

367,072. COFFEE AND TEA. THE DAYTON SPICE MILLS CO., Dayton, Ohio.
Filed July 18, 1938. Serial No. 408,599. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,073. CHEMICAL FERTILIZERS. THE CONSOLIDATED MINING & SMELTING COMPANY OF CANADA, LIMITED, Montreal, Quebec, Canada.
Filed July 18, 1938. Serial No. 408,822. PUBLISHED FEBRUARY 28, 1939. Class 10.

367,074. MEN'S WEAR—NAMELY, PAJAMAS, CAPS, BELTS MADE OF FABRIC AND LEATHER, GLOVES MADE OF FABRIC AND LEATHER, ROBES, AND SUITS. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash.
Filed July 23, 1938. Serial No. 408,825. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,075. LACQUERS, PAINTS IN READY MIXED FORM, PAINT ENAMELS, AND VARNISHES. COMMONWEALTH ENGINEERING CORPORATION, Dayton, Ohio.
Filed July 23, 1938. Serial No. 408,832. PUBLISHED DECEMBER 20, 1938. Class 16.

367,076. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT, AND TANGERINES. MARIANA GROVE PACKERS, INC., Fort Myers, Fla.
Filed July 27, 1938. Serial No. 408,959. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,077. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT, AND TANGERINES. MARIANA GROVE PACKERS, INC., Fort Myers, Fla.
Filed July 29, 1938. Serial No. 409,047. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,078. TELLTALE OR INDICATING LUBRICATION FITTINGS. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa.
Filed July 30, 1938. Serial No. 409,098. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,079. INITIALS, ALPHABETICAL LETTERS, AND MONOGRAMS MADE OF FABRIC, COMPOSITION, OR PAPER FOR USE ON ARTICLES OF CLOTHING, HOUSEHOLD LINEN, OR TEXTILES AND HANDBAGS. AUTO-GRAM MANUFACTURING CO., INC., New York, N. Y.
Filed August 1, 1938. Serial No. 409,117. PUBLISHED FEBRUARY 7, 1939. Class 40.

367,080. LADIES' AND MISSES' CLOTHING: HATS, BERETS, COATS, SWEATERS, PLAY SUITS, BLOUSES, BATHING SUITS, NEGLIGEES, ETC. GERALD M. GREENCLAY, Los Angeles, Calif.
Filed August 1, 1938. Serial No. 409,125. PUBLISHED JANUARY 17, 1939. Class 39.

367,081. WOMEN'S SHOES MADE OF LEATHER, FABRIC, COMBINATIONS OF LEATHER AND FABRIC, AND THE LIKE. BOND SHOE CO., INC., New York, N. Y.
Filed August 8, 1938. Serial No. 409,341. PUBLISHED JANUARY 3, 1939. Class 39.

367,082. POULTRY GRIT CONSISTING OF STONE GRANULES. EDWARD J. HUGHES, doing business as Edward J. Hughes Sales Company, Mineola, N. Y.
Filed August 12, 1938. Serial No. 409,525. PUBLISHED FEBRUARY 28, 1939. Class 1.

367,083. MEN'S, WOMEN'S, AND CHILDREN'S WEAR—NAMELY, COATS, SUITS, SWEATERS, JACKETS, BLOUSES, SLACKS, HATS, CAPS, ETC. MAVEST INC., New York, N. Y.
Filed August 15, 1938. Serial No. 409,617. PUBLISHED JANUARY 17, 1939. Class 39.

367,084. LADIES' HATS. THE NOACK-HOYT COMPANY, Danbury, Conn.
Filed August 16, 1938. Serial No. 409,651. PUBLISHED JANUARY 17, 1939. Class 39.

367,085. LINGERIE CONSISTING OF SLIPS, BRASSIÈRES, PANTIES, AND NIGHTGOWNS. DOROTHY ROTH, New York, N. Y.
Filed August 18, 1938. Serial No. 409,747. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,086. COLLOIDAL STABILIZER FOR ICE CREAM. ALGIN CORPORATION OF AMERICA, New York, N. Y.
Filed August 19, 1938. Serial No. 409,756. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,087. NEWSPAPER COLUMN. CHARLES F. DANVER, Pittsburgh, Pa.
Filed August 31, 1938. Serial No. 410,133. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,088. EMULSIFIED OIL TREATMENT FOR THE NAILS. THE REVLON NAIL ENAMEL CORPORATION, New York, N. Y.
Filed September 9, 1938. Serial No. 410,406. PUBLISHED NOVEMBER 15, 1938. Class 6.

367,089. DENTIFRICES. ANNETTE BARREAU, Paris, France.
Filed September 10, 1938. Serial No. 410,424. PUBLISHED FEBRUARY 7, 1939. Class 6.

367,090. CREAMS FOR APPLYING TO FACE, HANDS, AND OTHER PARTS OF THE BODY; LOTIONS FOR APPLYING TO THE FACE, HANDS, AND OTHER PARTS OF THE BODY, ETC. JEROME J. GAUVREAU, doing business as J & G Specialty, Pittsfield, Mass.
Filed September 12, 1938. Serial No. 410,465. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,091. METALLIC ROOFING SHEETS. CARNEGIE-ILLINOIS STEEL CORPORATION, Pittsburgh, Pa.
Filed September 13, 1938. Serial No. 410,499. PUBLISHED FEBRUARY 21, 1939. Class 12.

367,092. METALLIC ROOFING SHEETS. CARNEGIE-ILLINOIS STEEL CORPORATION, Pittsburgh, Pa.
Filed September 13, 1938. Serial No. 410,500. PUBLISHED FEBRUARY 21, 1939. Class 12.

367,093. LADIES' SHOES MADE OF LEATHER, FABRICS, AND COMBINATIONS OF LEATHER AND FABRIC. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed September 15, 1938. Serial No. 410,601. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,094. PRODUCT CONSISTING OF SKIM MILK SOLIDS IN POWDER FORM. GOLDEN STATE COMPANY, LTD., San Francisco, Calif.
Filed September 16, 1938. Serial No. 410,652. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,095. WOMEN'S AND CHILDREN'S WEARING APPAREL — NAMELY, DRESSES, SWEATERS; LINGERIE—NAMELY, SILK UNDERSLIPS, PETTICOATS, DRAWERS, BED JACKETS, NIGHTGOWNS; AND GLOVES OF LEATHER AND FABRIC; SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF; HATS, COATS, BLOUSES, DRESSING ROBES, HOSIERY, HANDKERCHIEFS, HOUSECOATS, AND PAJAMAS. OHRBACH'S INC., New York, N. Y.
Filed September 16, 1938. Serial No. 410,656. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,096. GUT STRINGS FOR TENNIS, BADMINTON, AND SQUASH RACKETS. UNION PRODUCTS CORPORATION, San Francisco, Calif.
Filed September 20, 1938. Serial No. 410,805. PUBLISHED FEBRUARY 28, 1939. Class 22.

367,097. VENETIAN BLINDS. D. N. & E. WALTER & CO., San Francisco, Calif.
Filed September 20, 1938. Serial No. 410,810. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,098. FRESH FRUIT AND VEGETABLES. MARSHALL ANDERSON, Los Angeles, Calif.
Filed September 26, 1938. Serial No. 410,983. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,099. AUTOMOBILE BODY AND FENDER METAL WORKING TOOLS INCLUDING HAMMERS, DING HAMMERS, BALL END HAMMERS, ETC. METALMEN INC., Detroit, Mich.
Filed September 24, 1938. Serial No. 410,963. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,100. SHOES MADE OF LEATHER, RUBBER, OR FABRIC, OR OF COMBINATIONS OF SAID MATERIALS; AND CHILDREN'S COATS, SUITS, DRESSES, CAPS, HATS, SWEATERS, TROUSERS, OUTER SHIRTS, UNDER SHIRTS, NECKTIES, BLOUSES, UNDERWEAR, STOCKINGS, BELTS, AND SCARFS. JULIUS ARBITER, Chicago, Ill.
Filed September 23, 1938. Serial No. 410,893. PUBLISHED JANUARY 17, 1939. Class 39.

367,101. VEGETABLE FOOD PRODUCT CONTAINING SOME MILK SOLIDS FOR HUMAN CONSUMPTION FOR USE IN INFANT AND CHILD FEEDING AND FOR OTHER SPECIAL DIETARY USES. DR. A. WANDER S. A., Bern, Switzerland.
Filed October 3, 1938. Serial No. 411,257. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,102. WOMEN'S HOSIERY AND FABRIC, LEATHER, AND LEATHER AND FABRIC GLOVES. L. BAMBERGER & CO., Newark, N. J.
Filed October 4, 1938. Serial No. 411,265. PUBLISHED JANUARY 3, 1939. Class 39.

367,103. WATERPROOF AND SILK FABRICS FOR USE AS BOWL COVER SETS. LEO PERRY, doing business as Whitewater Garment Company, Whitewater, Wis.
Filed October 6, 1938. Serial No. 411,340. PUBLISHED NOVEMBER 22, 1938. Class 50.

367,104. AXES, HAMMERS, HATCHETS, HANDLES FOR HAND AGRICULTURAL IMPLEMENTS, HAND AGRICULTURAL IMPLEMENTS, ETC. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed October 7, 1938. Serial No. 411,362. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,105. DENTIFRICE. SAMUEL R. FELDMAN, doing business as Feld-Oral Co., New York, N. Y.
Filed October 11, 1938. Serial No. 411,491. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,106. BUTTONS OF A MOLDED PLASTIC MATERIAL OTHER THAN PRECIOUS METALS. ROCHESTER BUTTON COMPANY, Rochester, N. Y.
Filed October 12, 1938. Serial No. 411,546. PUBLISHED FEBRUARY 7, 1939. Class 40.

367,107. PREPARATION FOR CLEANING, WASHING, AND SCOURING UNSPUN WOOL. GENERAL DYESTUFF CORPORATION, New York, N. Y.
Filed October 14, 1938. Serial No. 411,601. PUBLISHED FEBRUARY 28, 1939. Class 4.

367,108. TOILET ARTICLES, NOVELTIES, AND THE LIKE, NOT MADE OR TRIMMED WITH PRECIOUS METAL, COMPRISING COMBS, BARRETTES, HAIRPINS, HAIR CLIPS, ETC. SCHWARTZ-GILBERT CO., INC., New York, N. Y.
Filed October 15, 1938. Serial No. 411,660. PUBLISHED JANUARY 10, 1939. Class 40.

367,109. CHEMICALS FOR TREATING FILMS. VAPORATE COMPANY, INC., New York, N. Y.
Filed October 15, 1938. Serial No. 411,664. PUBLISHED DECEMBER 27, 1938. Class 6.

367,110. PLASTIC COMPOSITION WHICH IS USED IN MAKING FLOORING, DECKING, AND THE LIKE AND MATERIALS THEREFOR, SAID MATERIALS BEING A PASTE COMPRISED OF AN AQUEOUS MIXTURE OF LATEX AND A DRY MATERIAL COMPRISING CEMENT OR A MIXTURE OF CEMENT AND AGGREGATE. CROSSFIELD PRODUCTS CORPORATION, Los Angeles, Calif.
Filed October 17, 1938. Serial No. 411,680. PUBLISHED FEBRUARY 21, 1939. Class 12.

367,111. BAKERS' MATERIALS — NAMELY, CAKE FLAVOR, BREAD IMPROVER, RYE SOUR, RYE FLAVOR, YEAST FOOD, GROUND CARAWAY, AND IMITATION VANILLA FLAVOR. WILLIAM R. HOLTZ, Chicago, Ill.
Filed October 17, 1938. Serial No. 411,692. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,112. SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. DR. A. POSNER SHOES, INC., New York, N. Y.
Filed October 17, 1938. Serial No. 411,708. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,113. SOAP AND OTHER DETERGENT PREPARATIONS. MISENTA PINE PRODUCTS, INC., Buffalo, N. Y.
Filed October 18, 1938. Serial No. 411,749. PUBLISHED FEBRUARY 28, 1939. Class 4.

361,114. PACKAGED COFFEES. BOYD TEA COMPANY, Portland, Oreg.
Filed October 21, 1938. Serial No. 411,852. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,115. PACKAGED SPICES. BOYD TEA COMPANY, Portland, Oreg.
Filed October 21, 1938. Serial No. 411,853. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,116. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATION THEREOF, FOR MEN, WOMEN, AND CHILDREN. MID-STATE SHOE CO., Milwaukee, Wis.
Filed October 21, 1938. Serial No. 411,891. PUBLISHED JANUARY 17, 1939. Class 39.

367,117. LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. ROOSEVELT SHOE SHOP, INC., Jackson Heights, N. Y.
Filed October 21, 1938. Serial No. 411,907. PUBLISHED JANUARY 3, 1939. Class 39.

367,118. WOMEN'S AND MISSES' COATS, SUITS, DRESSES, AND HATS. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed October 22, 1938. Serial No. 411,940. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,119. GIRDLES, PANTIES, STEP-IN CORSETS, AND CORSETS OF THE HOOK-AROUND TYPE. THE H. W. GOSSARD CO., Chicago, Ill.
Filed October 22, 1938. Serial No. 411,953. PUBLISHED JANUARY 3, 1939. Class 39.

367,120. WOMEN'S AND MISSES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. THE G. EDWIN SMITH SHOE COMPANY, Columbus, Ohio.
Filed October 22, 1938. Serial No. 411,973. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,121. MEN'S AND WOMEN'S LEATHER SHOES. IRVING J. HILLMAN, Newark, N. J.
Filed October 24, 1938. Serial No. 411,996. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,122. MEN'S, WOMEN'S, MISSES', AND CHILDREN'S GLOVES AND MITTENS MADE OF LEATHER, FABRIC, OR ANY COMBINATION THEREOF. ARIS GLOVES, INC., New York, N. Y.
Filed October 25, 1938. Serial No. 412,020. PUBLISHED JANUARY 17, 1939. Class 39.

367,123. RAINCOATS, PONCHOS, AND GALOSHES, SNOW SUITS, SHOES MADE OF LEATHER AND RUBBER OR FABRIC, AND PARTICULARLY OF COMBINATIONS OF SAID MATERIALS, AND RUBBERS. DON CARNEY, New York, N. Y.
Filed October 25, 1938. Serial No. 412,023. PUBLISHED JANUARY 3, 1939. Class 39.

367,124. ROUGE COMPACTS, POWDER COMPACTS, FACE POWDER, DUSTING POWDER. COTY, INC., New York, N. Y.
Filed October 27, 1938. Serial No. 412,082. PUBLISHED FEBRUARY 14, 1939. Class 6.

367,125. FORMING DIES. EDWARD A. WEIDENMILLER, doing business as Weidenmiller Company, Chicago, Ill.
Filed November 15, 1938. Serial No. 412,785. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,126. KNITTING PINS AND KNITTING NEEDLES FOR HAND USE. THOMAS CLEMENS USHER, Sulhamstead, England.
Filed October 29, 1938. Serial No. 412,204. PUBLISHED FEBRUARY 7, 1939. Class 40.

367,127. WOMEN'S, MISSES', AND CHILDREN'S HATS. BEST & CO. INC., New York, N. Y.
Filed October 31, 1938. Serial No. 412,212. PUBLISHED JANUARY 3, 1939. Class 39.

367,128. LADIES' AND MISSES' DRESS SHOES AND SLIPPERS MADE OF LEATHER, FABRIC AND WOOD COMBINATION, OR COMBINATIONS THEREOF. EASTERN FOOTWEAR CORP., Dolgeville and New York, N. Y.
Filed October 31, 1938. Serial No. 412,221. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,129. RELATIVELY NARROW ELASTIC WEBBING. THE AMERICAN MILLS COMPANY, New Haven, Conn.
Filed November 1, 1938. Serial No. 412,244. PUBLISHED FEBRUARY 7, 1939. Class 40.

367,130. FERTILIZERS. NITRATE AGENCIES COMPANY, New York, N. Y.
Filed October 29, 1938. Serial No. 412,273. PUBLISHED FEBRUARY 21, 1939. Class 10.

367,131. HAIR NETS. SOLO PRODUCTS CORPORATION, New York, N. Y.
Filed November 2, 1938. Serial No. 412,318. PUBLISHED JANUARY 3, 1939. Class 39.

367,132. GAME CONSISTING OF A GAME BOARD AND MOVABLE PIECES. BENNETT LEWIS, New York, N. Y.
Filed November 3, 1938. Serial No. 412,346. PUBLISHED FEBRUARY 28, 1939. Class 22.

367,133. HOUSEHOLD GLOVES MADE OF SYNTHETIC RUBBER WITH A LIGHT LINING OF NATURAL RUBBER. THE PIONEER RUBBER COMPANY, Willard, Ohio.
Filed November 3, 1938. Serial No. 412,353. PUBLISHED JANUARY 17, 1939. Class 39.

367,134. FERTILIZER. THE BARRETT COMPANY, New York, N. Y.
Filed November 4, 1938. Serial No. 412,367. PUBLISHED FEBRUARY 21, 1939. Class 10.

367,135. BOOKS. MODERN AGE BOOKS, INC., New York, N. Y.
Filed November 4, 1938. Serial No. 412,385. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,136. BOOKS. MODERN AGE BOOKS, INC., New York, N. Y.
Filed November 4, 1938. Serial No. 412,386. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,137. MOCCASINS, SLIPPERS, AND SANDALS OF LEATHER, RUBBER, PAPER, OR FABRIC, OR OF COMBINATIONS OF THESE MATERIALS. NASHUA SLIPPER COMPANY, Lowell, Mass.
Filed November 5, 1938. Serial No. 412,418. PUBLISHED JANUARY 17, 1939. Class 39.

367,138. BRASSIÈRES, CORSETS, GIRDLES, FOUNDATIONS, BANDETTES, GARTER BELTS, BANDEAUX, AND COMBINATIONS OF CORSETS AND BRASSIÈRES. VOGUE MFG. CO., Newark, N. J.
Filed November 8, 1938. Serial No. 412,531. PUBLISHED JANUARY 17, 1939. Class 39.

367,139. MEN'S WEARING APPAREL—NAMELY, DRESS, NEGLIGEE, SPORT, AND WORK SHIRTS; HATS, SHOES OF LEATHER OR FABRIC OR A COMBINATION OF SAID MATERIALS, AND NECKTIES MADE OF SILK OR WOOL OR A COMBINATION OF SAID MATERIALS. MAISON BLANCHE COMPANY, New Orleans, La.
Filed November 8, 1938. Serial No. 412,536. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,140. LADIES' WEARING APPAREL—NAMELY, HATS; SHOES MADE OF RUBBER, LEATHER, OR FABRIC, OR OF A COMBINATION OF SAID MATERIALS; SLIPS, UNDERWEAR, AND NIGHTGOWNS. MAISON BLANCHE COMPANY, New Orleans, La.
Filed November 8, 1938. Serial No. 412,537. PUBLISHED JANUARY 17, 1939. Class 39.

367,141. NECKTIES. BOTANY WORSTED MILLS, Passaic, N. J.
Filed November 9, 1938. Serial No. 412,541. PUBLISHED JANUARY 3, 1939. Class 39.

367,142. VEHICLE HEATERS USING HOT FLUIDS FROM THE ENGINE. THE STUDEBAKER CORPORATION, South Bend, Ind.
Filed November 9, 1938. Serial No. 412,563. PUBLISHED JANUARY 24, 1939. Class 19.

367,143. ASTRINGENTS, ASTRINGENT CERATES, COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, ETC. SHULTON, INC., New York, N. Y.
Filed November 12, 1938. Serial No. 412,669. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,144. COMPOSITION SOLES AND HEELS FOR SHOES. AVON SOLE COMPANY, Holbrook, Mass.
Filed November 14, 1938. Serial No. 412,691. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,145. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,720. PUBLISHED JANUARY 17, 1939. Class 39.

367,146. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,721. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,147. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,722. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,148. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,726. PUBLISHED JANUARY 17, 1939. Class 39.

367,149. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,727. PUBLISHED JANUARY 17, 1939. Class 39.

367,150. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,728. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,151. SHOES MADE OF LEATHER AND WITH RUBBER AND LEATHER SOLES AND HEELS. SACO-MOC SHOE CORPORATION, Portland, Maine.
Filed November 14, 1938. Serial No. 412,732. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,152. MEN'S TOPCOATS AND OVERCOATS. JACOB SIEGEL COMPANY, Philadelphia, Pa.
Filed November 14, 1938. Serial No. 412,734. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,153. WOMEN'S AND MISSES' COATS, SUITS, AND GLOVES MADE OF LEATHER, FABRIC, OR RUBBER. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo.
Filed November 15, 1938. Serial No. 412,773. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,154. LADIES', MISSES', AND GIRLS' HATS. SAM-WAY HAT CO., INC., New York, N. Y.
Filed November 15, 1938. Serial No. 412,780. PUBLISHED JANUARY 17, 1939. Class 39.

367,155. SHOES FOR MEN, WOMEN, AND CHILDREN MADE OF LEATHER, CANVAS, OR FABRICS. DOYLE SHOE COMPANY INC., Brockton, Mass.
Filed November 16, 1938. Serial No. 412,788. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,156. SHOES FOR MEN, WOMEN, AND CHILDREN MADE OF LEATHER, CANVAS, OR FABRICS. DOYLE SHOE COMPANY INC., Brockton, Mass.
Filed November 16, 1938. Serial No. 412,789. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,157. NUTRITIVE CHOCOLATE FLAVORED DRINKS, CHOCOLATE FLAVOR SYRUP AND CHOCOLATE FLAVOR POWDER FOR MAKING CHOCOLATE FLAVORED FOOD DRINKS. JACOB HOUSE & SONS, Buffalo, N. Y.
Filed November 16, 1938. Serial No. 412,812. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,158. WOMEN'S SLIPS. LAROS TEXTILES COMPANY, Bethlehem, Pa.
Filed November 16, 1938. Serial No. 412,818. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,159. HOSIERY. NORTHMONT HOSIERY CORPORATION, Reading, Pa.
Filed November 16, 1938. Serial No. 412,825. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,160. MEN'S SUITS AND OVERCOATS, AND WOMEN'S SUITS AND COATS. A. SAGNER & SONS, INC., Baltimore, Md.
Filed November 16, 1938. Serial No. 412,830. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,161. PUBLICATION ISSUED MONTHLY CARRYING ADVERTISING PRINTS. EYE • CATCHERS, INC., New York, N. Y.
Filed November 17, 1938. Serial No. 412,855. PUBLISHED FEBRUARY 28, 1939. Class 38.

367,162. WOOL FELT HAT BODIES. HENRY POLLAK, INC., New York, N. Y.
Filed November 17, 1938. Serial No. 412,869. PUBLISHED JANUARY 24, 1939. Class 39.

367,163. WATERPROOF CLOTHES — NAMELY, SLICKERS, JACKETS, PANTS, CAPES, BARVELS, APRONS, HATS, AND CAPS. THE H. M. SAWYER & SON CO., East Cambridge, Mass.
Filed November 17, 1938. Serial No. 412,877. PUBLISHED JANUARY 17, 1939. Class 39.

367,164. LADIES' AND MISSES' DRESSES. SAKIN & LINDNER, INC., New York, N. Y.
Filed November 19, 1938. Serial No. 412,889. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,165. GIRDLES AND CORSETS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed November 18, 1938. Serial No. 412,910. PUBLISHED JANUARY 24, 1939. Class 39.

367,166. FABRIC CLEANING AND SPOT REMOVING PREPARATIONS. JOHN JOSEPH BROHMAN, doing business as Nymoc Products Company, Toronto, Ontario, Canada.
Filed November 21, 1938. Serial No. 413,021. PUBLISHED FEBRUARY 28, 1939. Class 4.

367,167. MEN'S NECKTIES AND MUFFLERS. MCCURRACH ORGANIZATION INCORPORATED, New York, N. Y.
Filed November 21, 1938. Serial No. 413,023. PUBLISHED JANUARY 24, 1939. Class 39.

367,168. NASAL UNGUENT OR OINTMENT, HARMLESS, ANTISEPTIC, AND GERMICIDAL IN COMPOSITION. NOSE-IONS COMPANY, New York, N. Y.
Filed November 21, 1938. Serial No. 413,024. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,169. VISCOUS LIQUID OR SEMI-LIQUID CHEMICAL RAW MATERIAL OF UNSATURATED HYDROCARBON NATURE. WILMINGTON CHEMICAL CORPORATION, Wilmington, Del.
Filed November 22, 1938. Serial No. 413,057. PUBLISHED FEBRUARY 28, 1939. Class 1.

367,170. SHOES MADE OF LEATHER, RUBBER, CANVAS, FABRIC, OR COMPOSITION OR COMBINATIONS THEREOF. EBY SHOE CORPORATION, Ephrata, Pa.
Filed November 23, 1938. Serial No. 413,089. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,171. COTTON THREAD AND WOOLEN THREAD. CYNTHIA MILLS, East Boston, Mass.
Filed November 25, 1938. Serial No. 413,113. PUBLISHED FEBRUARY 14, 1939. Class 43.

367,172. COMBS. FOSGOOD CORPORATION, Leominster, Mass.
Filed November 25, 1938. Serial No. 413,122. PUBLISHED JANUARY 24, 1939. Class 40.

367,173. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, PLAY SUITS, AND BATHING SUITS. S. AUGSTEIN & Co., College Point, N. Y.
Filed November 26, 1938. Serial No. 413,175. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,174. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, PLAY SUITS, AND BATHING SUITS. S. AUGSTEIN & Co., College Point, N. Y.
Filed November 26, 1938. Serial No. 413,177. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,175. SUITS, COATS, VESTS, AND PANTS FOR MEN. S. MAKRANSKY & SONS, Philadelphia, Pa.
Filed November 26, 1938. Serial No. 413,189. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,176. SUITS, COATS, VESTS, AND PANTS FOR MEN. S. MAKRANSKY & SONS, Philadelphia, Pa.
Filed November 26, 1938. Serial No. 413,190. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,177. MEN'S AND YOUNG MEN'S SUITS, TOPCOATS, AND OVERCOATS. MAX UDELL SONS & Co., New York, N. Y.
Filed November 26, 1938. Serial No. 413,203. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,178. YARNS. FLEISHER YARNS, INC., New York, N. Y.
Filed November 29, 1938. Serial No. 413,213. PUBLISHED FEBRUARY 7, 1939. Class 43.

367,179. YARNS. FLEISHER YARNS, INC., New York, N. Y.
Filed November 29, 1938. Serial No. 413,214. PUBLISHED FEBRUARY 21, 1939. Class 43.

367,180. NECKTIES. BOTANY WORSTED MILLS, Passaic, N. J.
Filed November 28, 1938. Serial No. 413,217. PUBLISHED JANUARY 24, 1939. Class 39.

367,181. MEN'S AND YOUNG MEN'S OVERCOATS, TOPCOATS, SUITS, AND SPORT SUITS. TRIMOUNT CLOTHING CO. INC., Boston, Mass.
Filed November 28, 1938. Serial No. 413,254. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,182. WOMEN'S, CHILDREN'S, AND MEN'S UNDERWEAR. VANITY FAIR SILK MILLS, Reading, Pa.
Filed November 28, 1938. Serial No. 413,255. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,183. WOMEN'S, CHILDREN'S, AND MEN'S UNDERWEAR. VANITY FAIR SILK MILLS, Reading, Pa.
Filed November 28, 1938. Serial No. 413,256. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,184. CLOTHING FOR MEN AS FOLLOWS: UNDERWEAR OF WOVEN AND TEXTILE FABRICS—NAMELY, SHIRTS, DRAWERS, UNION SUITS, SHORTS, ETC. THE B. V. D. CORPORATION, Baltimore, Md.
Filed November 30, 1938. Serial No. 413,295. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,185. MEDICINES FOR TREATING ATHLETE'S FOOT AND A MEDICINAL PREPARATION FOR TREATING ACID STOMACH, GASTRITIS, PEPTIC ULCERS, AND OTHER SIMILAR COMPLAINTS. JAMES H. COAKLEY, Brockton, Mass.
Filed November 30, 1938. Serial No. 413,297. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,186. COIN BOXES, PARTICULARLY FOR USE ON DOORS OF BUILDINGS. K & K INC., Andover and North Andover, Mass.
Filed November 30, 1938. Serial No. 413,311. PUBLISHED FEBRUARY 28, 1939. Class 25.

367,187. LADIES' COATS AND SUITS. ANITRA, INC., New York, N. Y.
Filed December 1, 1938. Serial No. 413,327. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,188. INFANTS' AND CHILDREN'S DRESSES, INFANTS' AND CHILDREN'S ROMPERS, BIBS, INFANTS' AND CHILDREN'S SLIPS, INFANTS' AND CHILDREN'S GOWNS, BABY BOYS' SUITS, INFANTS' AND CHILDREN'S SUN SUITS. BABYCRAFT IMPORTS CO., New York, N. Y.
Filed December 1, 1938. Serial No. 413,329. PUBLISHED FEBRUARY 7, 1939. Class 39.

367,189. YARNS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed December 1, 1938. Serial No. 413,333. PUBLISHED FEBRUARY 7, 1939. Class 43.

367,190. YARNS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed December 1, 1938. Serial No. 413,334. PUBLISHED FEBRUARY 7, 1939. Class 43.

367,191. WEATHER STRIP. W. J. DENNIS & COMPANY, Chicago, Ill.
Filed December 1, 1938. Serial No. 413,336. PUBLISHED FEBRUARY 14, 1939. Class 12.

367,192. MONTHLY PERIODICAL. LARUS & BROTHER CO., INC., also doing business as Larus & Brother Co., Inc., Radio Station WRVA, Richmond, Va.
Filed December 1, 1938. Serial No. 413,346. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,193. CANDY. SISCO-HAMILTON CO., Chicago, Ill.
Filed December 1, 1938. Serial No. 413,365. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,194. LADIES' AND CHILDREN'S UNDERWEAR, CONSISTING OF BLOOMERS, PANTIES, VESTS, SLIPS, AND COMBINATIONS OF VESTS AND BLOOMERS, AND CHILDREN'S PAJAMAS AND NIGHTGOWNS. BELLE KNITTING CORP., New York, N. Y.
Filed December 2, 1938. Serial No. 413,387. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,195. MEN'S SHOES OF LEATHER, RUBBER, FABRIC OR COMBINATIONS THEREOF. COMMONWEALTH SHOE AND LEATHER COMPANY, Whitman, Mass.
Filed December 2, 1938. Serial No. 413,392. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,196. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF, FOR MEN, WOMEN, AND CHILDREN. JOHN C. MOENCH, doing business as J. C. Moench Shoe Co., Boston, Mass.
Filed December 2, 1938. Serial No. 413,415. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,197. COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS. NEA SERVICE, INC., Cleveland, Ohio.
Filed December 2, 1938. Serial No. 413,417. PUBLISHED FEBRUARY 28, 1939. Class 38.

367,198. WOOD SCRAPERS, WALL SCRAPERS, PUTTY KNIVES, GLASS CUTTERS. LANDON P. SMITH, INC., Irvington, N. J.
Filed December 2, 1938. Serial No. 413,421. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,199. ELECTRICAL SWITCHES FOR OPERATING ELECTRICAL APPARATUS. THE ANSONIA CLOCK COMPANY, INC., New York, N. Y.
Filed December 3, 1938. Serial No. 413,431. PUBLISHED FEBRUARY 28, 1939. Class 21.

367,200. HEADWEAR—NAMELY, MEN'S, BOYS', AND CHILDREN'S HATS, CAPS, AND BERETS OF CLOTH, STRAW, WOOL FELT, AND FUR FELT. FUNK BROS. HAT & CAP COMPANY, St. Louis, Mo.
Filed December 3, 1938. Serial No. 413,443. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,201. BRASSIÈRES, CORSETS, GIRDLES, HOSIERY, AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, AND NECKTIES FOR MEN. IDEAL ASSOCIATED MILLS INCORPORATED, New York, N. Y.
Filed December 3, 1938. Serial No. 413,445. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,202. FOOD PRODUCT WHICH IS A CANDY CONFECTION CONTAINING VITAMINS "B-1" AND "G". PURITY PRODUCTS, INC., Newark, N. J.
Filed December 3, 1938. Serial No. 413,457. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,203. LOCKS. THE AMERICAN HARDWARE CORPORATION, New Britain, Conn.
Filed December 5, 1938. Serial No. 413,466. PUBLISHED FEBRUARY 21, 1939. Class 25.

367,204. LATEX APRONS. INTERNATIONAL LATEX CORPORATION, Dover and Play-Tex Park, Dover, Del.
Filed December 5, 1938. Serial No. 413,481. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,205. ARTIFICIAL INSECTS ADAPTED FOR USE AS HAT, SHOE, OR CLOTHING DECORATIONS, NOVELTY JEWELRY, AND HAIR ORNAMENTS, NOT MADE OF PRECIOUS METAL. OREGON WATERS FLY CO., Portland, Oreg.
Filed December 5, 1938. Serial No. 413,484. PUBLISHED FEBRUARY 14, 1939. Class 40.

367,206. PREFORMED TREATED PAPER DRAPERIES AND WINDOW HANGINGS. PERVEL DISTRIBUTORS, INC., Chicago, Ill.
Filed December 5, 1938. Serial No. 413,485. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,207. MEN'S OUTER SHIRTS. FREDERICK LOESER & Co., INC., Brooklyn, N. Y.
Filed December 6, 1938. Serial No. 413,517. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,208. INSECTICIDES, ANT SPRAYS, ANT POWDERS, DEODORANTS FOR LAVATORY USE, STERILIZING PREPARATIONS, FLORAL SPRAYS, AND INSECTICIDE CRYSTALS. GREAT NORTHERN CHEMICAL CO., San Francisco, Calif.
Filed December 7, 1938. Serial No. 413,551. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,209. MEN'S HOSIERY. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 7, 1938. Serial No. 413,563. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,210. WOMEN'S NIGHTGOWNS AND PAJAMAS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 7, 1938. Serial No. 413,564. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,211. VULCANIZED OIL USED IN RUBBER COMPOUNDING AND IN WIRE INSULATION. THE TYSON CORPORATION, Woodbridge and Newark, N. J.
Filed December 7, 1938. Serial No. 413,571. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,212. HATS FOR MEN. HAT CORPORATION OF AMERICA, Norwalk, Conn.
Filed December 8, 1938. Serial No. 413,581. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,213. COD LIVER OIL FORTIFIED WITH NATURAL VITAMINS. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed December 8, 1938. Serial No. 413,591. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,214. MONTHLY MAGAZINE. TIME, INCORPORATED, New York, N. Y.
Filed December 8, 1938. Serial No. 413,605. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,215. ANTI-FREEZE. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y., a corporation of Delaware.
Filed December 8, 1938. Serial No. 413,609. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,216. CEREAL BEVERAGE, MALTLESS, NONINTOXICATING, FULLY FERMENTED, AND DEALCOHOLIZED. FRANK FEHR BREWING CO., INCORPORATED, Louisville, Ky.
Filed December 9, 1938. Serial No. 413,627. PUBLISHED FEBRUARY 28, 1939. Class 45.

367,217. WOMEN'S LOUNGING ROBES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed December 9, 1938. Serial No. 413,629. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,218. ADVERTISING MATERIAL INCLUDING BREAD WRAPPERS AND BREAD BANDS, WINDOW STREAMERS, DISPLAY SIGNS, POSTERS, AND NOVELTY CAPS SOLD AS SUCH IN TRADE. FREDERIC W. ZIV, INC., Cincinnati, Ohio.
Filed December 9, 1938. Serial No. 413,661. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,219. COTTON YARNS AND YARNS OF ALL TYPES. ABERFOYLE MANUFACTURING CO., Chester, Pa.
Filed December 10, 1938. Serial No. 413,664. PUBLISHED FEBRUARY 14, 1939. Class 43.

367,220. CRACKERS, AND MORE PARTICULARLY GRAHAM CRACKERS AND GRAHAM WAFERS. ASSOCIATED BISCUIT CO., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y.
Filed December 12, 1938. Serial No. 413,696. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,221. PANTIES, FOUNDATION GARMENTS, BATHING SUITS, PLAY SUITS, AND SWIM TRUNKS. HOLLYWOOD SILK MILLS, Los Angeles, Calif.
Filed December 12, 1938. Serial No. 413,712. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,222. BOYS' TROUSERS, MEN'S TROUSERS, MACKINAW JACKETS, JUVENILE OVERALLS, PLAY CLOTHES. KENDALE MFG. CORP., New York, N. Y.
Filed December 12, 1938. Serial No. 413,716. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,223. SAUCE FOR USE ON MEATS, SALADS, AND SEA FOODS. MAY CORRIS FOODS COMPANY, also doing business as May Corris Foods, Rochester, N. Y.
Filed December 12, 1938. Serial No. 413,725. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,224. SHEETS, PILLOW CASES, TABLE CLOTHS, TOWELS, BEDSPREADS, BLANKETS, AND PIECE GOODS MADE OF COTTON, LINEN, OR WOOL, OR OF SAID MATERIALS IN COMBINATION. MAISON BLANCHE COMPANY, New Orleans, La.
Filed December 13, 1938. Serial No. 413,765. PUBLISHED FEBRUARY 28, 1939. Class 42.

367,225. FACE POWDERS, FACE ROUGES, LIPSTICKS, MASCARA, FACE LOTIONS, AND MAKE-UP KITS CONSISTING OF COTTON FACIAL PADS, FACE LOTIONS, LIPSTICKS, MASCARA, FACE POWDER, AND ROUGE. BONNE BELL, INC., Cleveland, Ohio.
Filed December 13, 1938. Serial No. 413,772. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,226. SPUN RAYON IN THE PIECE AND SPUN RAYON MIXTURES. COLD SPRING BLEACHERY, Yardley, Pa.
Filed December 13, 1938. Serial No. 413,775. PUBLISHED FEBRUARY 28, 1939. Class 42.

367,227. FRESH CITRUS FRUITS. H. S. HAZELTINE, doing business as Hazeltine Packing Company, San Fernando, Calif.
Filed December 13, 1938. Serial No. 413,782. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,228. BEER AND ALE. HORLACHER BREWING COMPANY, Allentown, Pa.
Filed December 13, 1938. Serial No. 413,786. PUBLISHED FEBRUARY 28, 1939. Class 48.

367,229. MEDICINE FOR EXTERNAL USE IN THE TREATMENT OF PNEUMONIA. J. H. MILLER, Jenky, W. Va.
Filed December 13, 1938. Serial No. 413,795. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,230. SCALP AND HAIR TONICS, SCALP AND HAIR LUBRICANTS, SCALP AND HAIR OINTMENTS, SCALP AND HAIR SHAMPOOS, AND SCALP AND HAIR PREPARATIONS. QUALITY PRODUCTS CO., INC., New York, N. Y.
Filed December 13, 1938. Serial No. 413,798. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,231. WOMEN'S AND MISSES' LINGERIE—NAMELY, SLIPS, BRASSIÈRES, PANTIES, NIGHTGOWNS, AND PAJAMAS. SUSSBERG & FEINBERG, INC., New York, N. Y.
Filed December 13, 1938. Serial No. 413,806. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,232. SERIES OR SUCCESSION OF INCOMPLETE COMIC DRAWINGS. CHAS. E. RAY, New York, N. Y.
Filed December 15, 1938. Serial No. 413,876. PUBLISHED FEBRUARY 21, 1939. Class 38.

367,233. LADIES' SHOES MADE OF LEATHER AND/OR CLOTH. UNITY-GROSSMAN INC., New York, N. Y.
Filed December 15, 1938. Serial No. 413,885. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,234. LADIES' DRESSES. NAT L. GREEN CO., INC., New York, N. Y.
Filed December 17, 1938. Serial No. 413,943. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,235. HOSIERY. GOLD MEADOW HOSIERY CO., New York, N. Y.
Filed December 19, 1938. Serial No. 413,989. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,236. WOMEN'S, MISSES', AND JUNIORS' COATS AND SUITS. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed December 19, 1938. Serial No. 413,991. PUBLISHED FEBRUARY 14, 1939. Class 39.

367,237. WOMEN'S AND MISSES' COATS AND SUITS MADE FROM HARRIS TWEED. THE LEVENSON COMPANY, Boston, Mass.
Filed December 19, 1938. Serial No. 413,995. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,238. UMBRELLAS AND PARASOLS. MILTON H. SIEGEL, Baltimore, Md.
Filed December 19, 1938. Serial No. 414,009. PUBLISHED FEBRUARY 21, 1939. Class 41.

367,239. MATTRESSES, STUDIO COUCHES, BOX SPRINGS, AND PILLOWS. EAGLE MATTRESS COMPANY INC., Boston, Mass.
Filed December 20, 1938. Serial No. 414,025. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,240. WRITING PAPERS, PARTICULARLY LEDGER, RECORD, BOND, LINEN, ONION SKIN, LOOSE-LEAF, BANK NOTE, BANK PARCHMENT, TYPEWRITER, AND MANUSCRIPT COVER. L. L. BROWN PAPER COMPANY, Adams, Mass.
Filed December 20, 1938. Serial No. 414,022. PUBLISHED FEBRUARY 28, 1939. Class 37.

367,241. TWINES, CORD, AND TINSEL CORDS. THE LEES MANUFACTURING CO., Westport, Conn., and New York, N. Y.
Filed December 20, 1938. Serial No. 414,034. PUBLISHED FEBRUARY 21, 1939. Class 7.

367,242. FISH HOOKS. DRISCOLL-BRUCK CO., LTD., Portland, Oreg.
Filed December 21, 1938. Serial No. 414,059. PUBLISHED FEBRUARY 28, 1939. Class 22.

367,243. ALLOYS OF PRECIOUS, SEMI-PRECIOUS, OR RARE METALS, CONTAINING SOME OR ALL OF THE ELEMENTS, GOLD, SILVER, PLATINUM, PALLADIUM, RUTHENIUM, TUNGSTEN, MOLYBDENUM, AND THE LIKE. FANSTEEL METALLURGICAL CORPORATION, North Chicago, Ill.
Filed December 21, 1938. Serial No. 414,061. PUBLISHED FEBRUARY 28, 1939. Class 14.

367,244. LININGS OF TIN, LEAD, OR THE LIKE, BONDED TO STEEL OR OTHER METALS. FRANCIS R. GLENNER, doing business as Homogeneous Equipment Company, Downingtown, Pa.
Filed December 21, 1938. Serial No. 414,069. PUBLISHED FEBRUARY 28, 1939. Class 14.

367,245. COIN-OPERATED BEVERAGE DISPENSING MACHINES. SPACARB, INC., Jersey City, N. J.
Filed December 20, 1938. Serial No. 414,046. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,246. FACE CREAMS. MARTIN DE BOTELHO, New York, N. Y.
Filed December 21, 1938. Serial No. 414,055. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,247. LADIES' BILLFOLDS AND KEY CASES. P. A. GARDNER, JR., doing business as Prince Gardner, St. Louis, Mo.
Filed December 22, 1938. Serial No. 414,102. PUBLISHED FEBRUARY 28, 1939. Class 3.

367,248. SHOTGUNS, RIFLES, PISTOLS, REVOLVERS, OTHER SMALL ARMS, AND SMALL ARMS AMMUNITION. STOEGER ARMS CORPORATION, New York, N. Y.
Filed December 22, 1938. Serial No. 414,119. PUBLISHED FEBRUARY 28, 1939. Class 9.

367,249. MEN'S, WOMEN'S, AND CHILDREN'S CAPS, HATS, SOCKS, STOCKINGS, GLOVES MADE OF FABRICS, JACKETS, BLOUSES, SWEATERS, DRESSES, SUITS, OUTER SKIRTS, COATS, BATHING SUITS, SLACKS, POLO SHIRTS, PLAY SUITS, AND CAPES. THEBEST MILLS CO., New York, N. Y.
Filed December 22, 1938. Serial No. 414,120. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,250. FLAVOR ACCELERATOR USED IN THE BAKING OF BREAD. CHARLES HERENDEEN & SON, INC., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,112. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,251. PERIODICAL. THOMAS PUBLISHING COMPANY, New York, N. Y.
Filed December 22, 1938. Serial No. 414,121. PUBLISHED FEBRUARY 28, 1939. Class 38.

367,252. WRENCHES, BUTCHER KNIVES, HACK SAWS, COLD CHISELS, EGG BEATERS, LAWN MOWERS, FOOD MIXERS, AND RAZOR BLADES. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,130. PUBLISHED FEBRUARY 28, 1939. Class 23.

367,253. BINOCULARS AND FIELD GLASSES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed December 23, 1938. Serial No. 414,137. PUBLISHED FEBRUARY 28, 1939. Class 26.

367,254. MILLINERY BRAIDS. HENRY POLLAK, INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,203. PUBLISHED FEBRUARY 28, 1939. Class 40.

367,255. FELT HAT BODIES. HENRY POLLAK, INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,205. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,256. WOOL FELT HAT BODIES. HENRY POLLAK, INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,206. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,257. COUGH SYRUP. T. A. SLOCUM CO., New York, N. Y.
Filed December 27, 1938. Serial No. 414,241. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,258. FROZEN CONFECTIONS. SHIVER CAKE CORPORATION OF AMERICA, Alameda, Calif.
Filed December 27, 1938. Serial No. 414,242. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,259. TEXTILE BAGS. FULTON BAG & COTTON MILLS, Atlanta, Ga.
Filed December 28, 1938. Serial No. 414,262. PUBLISHED FEBRUARY 28, 1939. Class 2.

367,260. INSECTICIDES FOR USE AS A PLANT SPRAY. MCCONNON & COMPANY, Winona, Minn.
Filed December 28, 1938. Serial No. 414,267. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,261. INSECTICIDES FOR USE AS A PLANT SPRAY. MCCONNON & COMPANY, Winona, Minn.
Filed December 28, 1938. Serial No. 414,268. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,262. SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF FOR MEN, WOMEN, AND CHILDREN. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed December 28, 1938. Serial No. 414,270. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,263. COFFEE. SAVEMORE MARKETS, INC., Jamaica, N. Y.
Filed December 28, 1938. Serial No. 414,273. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,264. SHEETS OF MINERAL WOOL THERMAL INSULATING MATERIAL. THE THERMINSUL CORPORATION, Kalamazoo, Mich.
Filed December 28, 1938. Serial No. 414,282. PUBLISHED FEBRUARY 28, 1939. Class 12.

367,265. MEDICINAL LOTION, PARTICULARLY FOR A SPECIAL PREPARATION FOR POISON IVY AND POISON OAK. MARION RUSSO, Stamford, Conn.
Filed December 29, 1938. Serial No. 414,311. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,266. CHECKER GAME PLAYED WITH MARBLES. J. PRESSMAN & CO., INC., New York, N. Y.
Filed December 29, 1938. Serial No. 414,328. PUBLISHED FEBRUARY 28, 1939. Class 22.

367,267. RUM. NACIONAL DESTILERIAS CORPORATION, Indianapolis, Ind.
Filed December 30, 1938. Serial No. 414,360. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,268. EAR OIL PREPARATION. PURPOIL LABORATORIES, INC., Baltimore, Md.
Filed December 30, 1938. Serial No. 414,364. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,269. PREPARATION FOR USE IN TREATMENT OF ATHLETE'S FOOT AND KINDRED DISEASES. PURPOIL LABORATORIES, INC., Baltimore, Md.
Filed December 30, 1938. Serial No. 414,363. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,270. WHEAT FLOUR. RUSSELL-MILLER MILLING CO., Minneapolis, Minn.
Filed December 30, 1938. Serial No. 414,369. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,271. RUM, WHISKEY, GIN, BRANDY, AND ALCOHOLIC CORDIALS. SIBONEY DISTILLING CORPORATION, Philadelphia, Pa.
Filed December 30, 1938. Serial No. 414,373. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,272. HAIR TONIC. HATTIE B. THOMAS, Baton Rouge, La.
Filed December 30, 1938. Serial No. 414,378. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,273. MEDICINAL PREPARATION IN SOLUTION FORM FOR THE TREATMENT OF ATHLETE'S FOOT. FRANCIS M. VINCENT, doing business as Hampton Drug Co., Hampton, S. C.
Filed December 30, 1938. Serial No. 414,381. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,274. WOMEN'S AND MISSES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF; HATS, SCARFS, BELTS FOR OUTER WEAR, HANDKERCHIEFS, AND PETTICOATS. BONWIT TELLER, INC., New York, N. Y.
Filed December 31, 1938. Serial No. 414,390. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,275. MEDICINAL PREPARATION CONTAINING NICKEL AND PECTIN, USEFUL, AMONG OTHER THINGS, FOR THE TREATMENT OF CERTAIN TYPES OF DYSENTERY. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed December 31, 1938. Serial No. 414,406. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,276. FLOOR BLOCKS AND TILES OR SECTIONS AND STRIP WOOD FLOOR MATERIAL AND THE LIKE. ALLSPLINE CORPORATION, McGaheysville, Va.
Filed January 3, 1939. Serial No. 414,,425. PUBLISHED FEBRUARY 28, 1939. Class 12.

367,277. LEATHER. AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del.
Filed January 3, 1939. Serial No. 414,426. PUBLISHED FEBRUARY 28, 1939. Class 1.

367,278. FABRIC TREATED WITH NON-SLIPPING MATERIAL FOR USE IN PREVENTING SLIPPING OF RUGS. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed January 3, 1939. Serial No. 414,430. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,279. SYNTHETIC RESINOUS PRODUCTS—NAMELY, SHEET, ROD, AND TUBE FORMS. CONTINENTAL-DIAMOND FIBRE COMPANY, Newark, Del.
Filed January 3, 1939. Serial No. 414,436. PUBLISHED FEBRUARY 28, 1939. Class 1.

367,280. MAGNESIUM PREPARATION FOR MEDICINAL PURPOSES—NAMELY, TO ABSORB HARMFUL AND TOXIC SUBSTANCES FROM THE INTESTINAL TRACT. THE WM. S. MERRELL COMPANY, Cincinnati and Lockland Station, Cincinnati, Ohio.
Filed January 3, 1939. Serial No. 414,459. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,281. WATER REPELLENT COMPOUND. PERMA-DRY PROCESS CORPORATION, New York, N. Y.
Filed January 3, 1939. Serial No. 414,467. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,282. NONALCOHOLIC, MALTLESS, CARBONATED BEVERAGES, SOLD AS SOFT DRINKS, AND SYRUP FOR USE IN MAKING THE SAME. ROMELLE G. REYNOLDS, Ocala, Fla.
Filed January 3, 1939. Serial No. 414,469. PUBLISHED FEBRUARY 28, 1939. Class 45.

367,283. OLIVE OIL. SUPREME OLIVE OIL CORPORATION, San Fernando, Calif.
Filed January 3, 1939. Serial No. 414,474. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,284. MEAT LOAVES. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed January 3, 1939. Serial No. 414,477. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,285. MEAT LOAVES. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed January 3, 1939. Serial No. 414,478. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,286. WAXED PAPER. BERST-FORSTER-DIXFIELD COMPANY, Dixfield, Maine, and New York, N. Y.
Filed January 4, 1939. Serial No. 414,481. PUBLISHED FEBRUARY 28, 1939. Class 37.

367,287. RECONSTRUCTIVE TONIC, RECOMMENDED FOR THE TREATMENT OF SECONDARY ANEMIA. TABLE ROCK LABORATORIES, INC., Greenville, S. C.
Filed January 4, 1939. Serial No. 414,514. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,288. SWEATERS, BATHING SUITS, AND BATHING TRUNKS. S. BLECHMAN & SONS, INC., New York, N. Y.
Filed January 5, 1939. Serial No. 414,518. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,289. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE POWDER, TALCUM POWDER, LIP STICK, AND ROUGE. LOUIS PIERRE GUILLON, Ivry-sur-Seine, France.
Filed January 5, 1939. Serial No. 414,525. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,290. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE POWDER, TALCUM POWDER, LIP STICK, AND ROUGE. LOUIS PIERRE GUILLON, Ivry-sur-Seine, France.
Filed January 5, 1939. Serial No. 414,526. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,291. PENS AND PENCILS. MARK SHASHOIAN, doing business as Novelty Pen and Pencil Company, Cliffside Park, N. J.
Filed January 5, 1939. Serial No. 414,537. PUBLISHED FEBRUARY 28, 1939. Class 37.

367,292. SCOTCH WHISKY. CLUFF & PICKERING, LTD., New York, N. Y.
Filed January 6, 1939. Serial No. 414,554. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,293. TOOTH BRUSHES. PYCOPE INCORPORATED, Jersey City, N. J.
Filed January 6, 1939. Serial No. 414,576. PUBLISHED FEBRUARY 28, 1939. Class 29.

367,294. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y.
Filed January 7, 1939. Serial No. 414,595. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,295. STRAIGHT BOURBON WHISKEY. HIRSCH DISTILLING COMPANY, Kansas City, Mo.
Filed January 7, 1939. Serial No. 414,600. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,296. CARBONATED, NONALCOHOLIC, MALTLESS BEVERAGES AND EXTRACTS AND FLAVORINGS USED IN MAKING THE SAME. IRVING BEVERAGE CO., INC., Chicago, Ill.
Filed January 9, 1939. Serial No. 414,631. PUBLISHED FEBRUARY 28, 1939. Class 45.

367,297. CLEANER FOR REMOVING BLEMISHES, WHITE RINGS, SCRATCHES, AND OTHER STAINS AND SURFACE DEFECTS FROM WOOD SURFACES. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed January 9, 1939. Serial No. 414,633. PUBLISHED FEBRUARY 28, 1939. Class 4.

367,298. LADDERS, PARTICULARLY STEPLADDERS. MOULTON LADDER MANUFACTURING CO., Somerville, Mass.
Filed January 9, 1939. Serial No. 414,638. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,299. LADDERS, PARTICULARLY STEPLADDERS. MOULTON LADDER MANUFACTURING CO., Somerville, Mass.
Filed January 9, 1939. Serial No. 414,639. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,300. MINERAL WOOL INSULATING MATERIAL. THE BARRETT COMPANY, New York, N. Y.
Filed January 10, 1939. Serial No. 414,650. PUBLISHED FEBRUARY 28, 1939. Class 12.

367,301. FINGER WAVING PREPARATION. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed January 10, 1939. Serial No. 414,657. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,302. IRON TONIC AND ASTRINGENT. KIRBY'S MINERAL PRODUCTS, Union, S. C.
Filed January 10, 1939. Serial No. 414,662. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,303. FACE, COVER, AND WALL PLATES FOR ELECTRIC WIRING DEVICES. PASS & SEYMOUR, INC., Syracuse, N. Y.
Filed January 11, 1939. Serial No. 414,707. PUBLISHED FEBRUARY 28, 1939. Class 21.

367,304. GRANULAR MINERAL MATERIAL FOR CHEMICALLY SOFTENING WATER. RESEARCH PRODUCTS CORPORATION, Madison, Wis.
Filed January 11, 1939. Serial No. 414,710. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,305. POCKET MEDICINE KITS. THOMPSON'S LTD., New York, N. Y.
Filed January 11, 1939. Serial No. 414,713. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,306. FEVER MACHINES. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed January 12, 1939. Serial No. 414,732. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,307. CHEMICAL ADJUVANTS FOR THE TREATMENT OF SILAGE. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed January 12, 1939. Serial No. 414,750. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,308. BOARD GAMES PLAYED WITH MOVABLE PIECES. BENJAMIN GOULDIN, New York, N. Y.
Filed January 13, 1939. Serial No. 414,780. PUBLISHED FEBRUARY 28, 1939. Class 22.

367,309. PERFUMES AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed January 13, 1939. Serial No. 414,786. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,310. PERFUMES AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed January 13, 1939. Serial No. 414,785. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,311. TABLE SYRUP. WOFFORD SYRUP CO., INC., Houston, Tex.
Filed January 13, 1939. Serial No. 414,808. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,312. FACE CREAMS, FOUNDATION CREAMS, AND FACE POWDER FOR COSMETICS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed January 14, 1939. Serial No. 414,833. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,313. COSMETIC AND TOILET PREPARATIONS—NAMELY, SKIN CREAMS, CLEANSING CREAMS, TISSUE CREAMS, SKIN OIL, ETC. THE VITA-RAY CORPORATION, Lowell, Mass.
Filed January 14, 1939. Serial No. 414,848. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,314. FACE CREAM, CREAM FOR TREATMENT OF SKIN INFECTION, COLD AND CONGESTION CREAM, CUTICLE CREAM, MASSAGE CREAM, AND NASAL CREAM. BEL-TEX CO., New York, N. Y.
Filed January 16, 1939. Serial No. 414,856. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,315. RUM. MANY, BLANC & CO., INC., Chicago, Ill.
Filed January 16, 1939. Serial No. 414,879. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,316. ELECTROSURGICAL APPARATUS FOR USE IN DESICCATION-FULGURATION TECHNICS. THE BIRTCHER CORPORATION, Los Angeles, Calif.
Filed January 17, 1939. Serial No. 414,911. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,317. MATTRESSES. SUPERIOR FELT & BEDDING CO., Chicago, Ill.
Filed January 17, 1939. Serial No. 414,927. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,318. COMBINATION DESK AND TABLE. HENRY FELDMAN, doing business as Feldman Bros., New York, N. Y.
Filed January 18, 1939. Serial No. 414,947. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,319. COMPLETE REFRIGERATION MACHINES, REFRIGERATION SHOW CASES, PRODUCT COOLERS, PRESSURE WATER COOLERS, MILK COOLERS, AND REFRIGERATED OIL TEST CABINETS. GENERAL REFRIGERATION CORPORATION, South Beloit, Ill.
Filed January 18, 1939. Serial No. 414,948. PUBLISHED FEBRUARY 28, 1939. Class 31.

367,320. CREAM COSMETIC. HYMAN & HYMAN, A CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,951. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,321. CREAM COSMETIC. HYMAN & HYMAN, A CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,952. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,322. CASTING METALS USED IN DENTISTRY. THE WILLIAMS GOLD REFINING COMPANY, INC., Buffalo, N. Y.
Filed January 18, 1939. Serial No. 414,976. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,323. MATTRESSES. ROSE-DERRY COMPANY, Newton, Mass.
Filed January 19, 1939. Serial No. 415,008. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,324. FOLDING CHAIRS. THE TELESCOPE FOLDING FURNITURE COMPANY, Granville, N. Y.
Filed January 19, 1939. Serial No. 415,016. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,325. LIQUID POLISH FOR FINISHING AND COATING FLOORS AND OTHER SURFACES OF WOOD, LINOLEUM, RUBBER, CORK, TILE, ASPHALT, CONCRETE, CEMENT, COMPOSITION, MASTIC, MAGNESITE, TERRAZZO, MARBLE, TRAVERTINE, STONE, SLATE, AND METAL. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed January 18, 1939. Serial No. 415,022. PUBLISHED FEBRUARY 28, 1939. Class 16.

367,326. BOURBON WHISKEY. BELLE MEADE PRODUCTS COMPANY, INCORPORATED, Belle Meade, Va.
Filed January 20, 1939. Serial No. 415,030. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,327. MECHANICAL REFRIGERATORS. MIDWEST MFG. COMPANY, Galesburg, Ill.
Filed January 20, 1939. Serial No. 415,051. PUBLISHED FEBRUARY 28, 1939. Class 31.

367,328. MATTRESSES, PILLOWS, AND BOX SPRINGS. CHARLES P. ROGERS & CO. INC., New York, N. Y.
Filed January 21, 1939. Serial No. 415,090. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,329. RESILIENT VEHICLE TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 24, 1939. Serial No. 415,160. PUBLISHED FEBRUARY 28, 1939. Class 35.

367,330. RESILIENT VEHICLE TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 24, 1939. Serial No. 415,161. PUBLISHED FEBRUARY 28, 1939. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

367,331. (CLASS 39. CLOTHING.) FRIED OSTERMANN CO., Milwaukee, Wis. Filed Mar. 4, 1935. Serial No. 362,123.

TULENGTH CUFFS

For Boys' Coats.
Claims use since Jan. 30, 1935.

367,332. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ROBT. J. ROTHSTEIN, doing business as Rothstein Dental Laboratories, Washington, D. C. Filed Mar. 13, 1936. Serial No. 375,957.

Lyfelyke

For Artificial Teeth, Crowns, and Bridges, and Material Used in the Making Thereof—Namely, a Porcelain.
Claims use since April, 1935.

367,333. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) ATLAS HEATING & VENTILATING CO. LTD., San Francisco, Calif. Filed Apr. 28, 1937. Serial No. 391,945.

FILTERED HEAT

For Hot Air Furnaces and Air Conditioning Units.
Claims use since Mar. 27, 1937.

367,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL G. WILLIAMS, Los Angeles, Calif., assignor to Rudolph J. Freed, Los Angeles, Calif. Filed July 22, 1937. Serial No. 395,549.

BARLEE-KORN

For Bread, Cakes, Cookies, Rolls, Crackers, Doughnuts, and Coffee Cake.
Claims use since Mar. 1, 1935.

367,335. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE NORWOOD COMPANY, Chicago, Ill. Filed Jan. 22, 1938. Serial No. 402,233.

NORWOOD

For Music Stands.
Claims use since Jan. 10, 1938.

367,336. (CLASS 12. CONSTRUCTION MATERIALS.) CALBAR PAINT AND VARNISH COMPANY, Philadelphia, Pa. Filed Jan. 29, 1938. Serial No. 402,468.

MASON-SEAL

For Coating Material in Plastic Form for Brick, Concrete, and Brick Stucco.
Claims use since Nov. 1, 1937.

367,288. SWEATERS, BATHING SUITS, AND BATHING TRUNKS. S. BLECHMAN & SONS, INC., New York, N. Y.
Filed January 5, 1939. Serial No. 414,518. PUBLISHED FEBRUARY 21, 1939. Class 39.

367,289. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE POWDER, TALCUM POWDER, LIP STICK, AND ROUGE. LOUIS PIERRE GUILLON, Ivry-sur-Seine, France.
Filed January 5, 1939. Serial No. 414,525. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,290. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE POWDER, TALCUM POWDER, LIP STICK, AND ROUGE. LOUIS PIERRE GUILLON, Ivry-sur-Seine, France.
Filed January 5, 1939. Serial No. 414,526. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,291. PENS AND PENCILS. MARK SHASHOIAN, doing business as Novelty Pen and Pencil Company, Cliffside Park, N. J.
Filed January 5, 1939. Serial No. 414,537. PUBLISHED FEBRUARY 28, 1939. Class 37.

367,292. SCOTCH WHISKY. CLUFF & PICKERING, LTD., New York, N. Y.
Filed January 6, 1939. Serial No. 414,554. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,293. TOOTH BRUSHES. PYCOPE INCORPORATED, Jersey City, N. J.
Filed January 6, 1939. Serial No. 414,576. PUBLISHED FEBRUARY 28, 1939. Class 29.

367,294. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y.
Filed January 7, 1939. Serial No. 414,595. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,295. STRAIGHT BOURBON WHISKEY. HIRSCH DISTILLING COMPANY, Kansas City, Mo.
Filed January 7, 1939. Serial No. 414,600. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,296. CARBONATED, NONALCOHOLIC, MALTLESS BEVERAGES AND EXTRACTS AND FLAVORINGS USED IN MAKING THE SAME. IRVING BEVERAGE CO., INC., Chicago, Ill.
Filed January 9, 1939. Serial No. 414,631. PUBLISHED FEBRUARY 28, 1939. Class 45.

367,297. CLEANER FOR REMOVING BLEMISHES, WHITE RINGS, SCRATCHES, AND OTHER STAINS AND SURFACE DEFECTS FROM WOOD SURFACES. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed January 9, 1939. Serial No. 414,633. PUBLISHED FEBRUARY 28, 1939. Class 4.

367,298. LADDERS, PARTICULARLY STEPLADDERS. MOULTON LADDER MANUFACTURING CO., Somerville, Mass.
Filed January 9, 1939. Serial No. 414,638. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,299. LADDERS, PARTICULARLY STEPLADDERS. MOULTON LADDER MANUFACTURING CO., Somerville, Mass.
Filed January 9, 1939. Serial No. 414,639. PUBLISHED FEBRUARY 28, 1939. Class 50.

367,300. MINERAL WOOL INSULATING MATERIAL. THE BARRETT COMPANY, New York, N. Y.
Filed January 10, 1939. Serial No. 414,650. PUBLISHED FEBRUARY 28, 1939. Class 12.

367,301. FINGER WAVING PREPARATION. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed January 10, 1939. Serial No. 414,657. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,302. IRON TONIC AND ASTRINGENT. KIRBY'S MINERAL PRODUCTS, Union, S. C.
Filed January 10, 1939. Serial No. 414,662. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,303. FACE, COVER, AND WALL PLATES FOR ELECTRIC WIRING DEVICES. PASS & SEYMOUR, INC., Syracuse, N. Y.
Filed January 11, 1939. Serial No. 414,707. PUBLISHED FEBRUARY 28, 1939. Class 21.

367,304. GRANULAR MINERAL MATERIAL FOR CHEMICALLY SOFTENING WATER. RESEARCH PRODUCTS CORPORATION, Madison, Wis.
Filed January 11, 1939. Serial No. 414,710. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,305. POCKET MEDICINE KITS. THOMPSON'S LTD., New York, N. Y.
Filed January 11, 1939. Serial No. 414,713. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,306. FEVER MACHINES. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed January 12, 1939. Serial No. 414,732. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,307. CHEMICAL ADJUVANTS FOR THE TREATMENT OF SILAGE. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed January 12, 1939. Serial No. 414,750. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,308. BOARD GAMES PLAYED WITH MOVABLE PIECES. BENJAMIN GOULDIN, New York, N. Y.
Filed January 13, 1939. Serial No. 414,780. PUBLISHED FEBRUARY 28, 1939. Class 22.

367,309. PERFUMES AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed January 13, 1939. Serial No. 414,786. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,310. PERFUMES AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed January 13, 1939. Serial No. 414,785. PUBLISHED FEBRUARY 21, 1939. Class 6.

367,311. TABLE SYRUP. WOFFORD SYRUP CO., INC., Houston, Tex.
Filed January 13, 1939. Serial No. 414,808. PUBLISHED FEBRUARY 28, 1939. Class 46.

367,312. FACE CREAMS, FOUNDATION CREAMS, AND FACE POWDER FOR COSMETICS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed January 14, 1939. Serial No. 414,833. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,313. COSMETIC AND TOILET PREPARATIONS—NAMELY, SKIN CREAMS, CLEANSING CREAMS, TISSUE CREAMS, SKIN OIL, ETC. THE VITA-RAY CORPORATION, Lowell, Mass.
Filed January 14, 1939. Serial No. 414,848. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,314. FACE CREAM, CREAM FOR TREATMENT OF SKIN INFECTION, COLD AND CONGESTION CREAM, CUTICLE CREAM, MASSAGE CREAM, AND NASAL CREAM. BEL-TEX CO., New York, N. Y.
Filed January 16, 1939. Serial No. 414,856. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,315. RUM. MANY, BLANC & CO., INC., Chicago, Ill.
Filed January 16, 1939. Serial No. 414,879. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,316. ELECTROSURGICAL APPARATUS FOR USE IN DESICCATION-FULGURATION TECHNICS. THE BIRTCHER CORPORATION, Los Angeles, Calif.
Filed January 17, 1939. Serial No. 414,911. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,317. MATTRESSES. SUPERIOR FELT & BEDDING CO., Chicago, Ill.
Filed January 17, 1939. Serial No. 414,927. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,318. COMBINATION DESK AND TABLE. HENRY FELDMAN, doing business as Feldman Bros., New York, N. Y.
Filed January 18, 1939. Serial No. 414,947. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,319. COMPLETE REFRIGERATION MACHINES, REFRIGERATION SHOW CASES, PRODUCT COOLERS, PRESSURE WATER COOLERS, MILK COOLERS, AND REFRIGERATED OIL TEST CABINETS. GENERAL REFRIGERATION CORPORATION, South Beloit, Ill.
Filed January 18, 1939. Serial No. 414,948. PUBLISHED FEBRUARY 28, 1939. Class 31.

367,320. CREAM COSMETIC. HYMAN & HYMAN, A CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,951. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,321. CREAM COSMETIC. HYMAN & HYMAN, A CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,952. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,322. CASTING METALS USED IN DENTISTRY. THE WILLIAMS GOLD REFINING COMPANY, INC., Buffalo, N. Y.
Filed January 18, 1939. Serial No. 414,976. PUBLISHED FEBRUARY 28, 1939. Class 44.

367,323. MATTRESSES. ROSE-DERRY COMPANY, Newton, Mass.
Filed January 19, 1939. Serial No. 415,008. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,324. FOLDING CHAIRS. THE TELESCOPE FOLDING FURNITURE COMPANY, Granville, N. Y.
Filed January 19, 1939. Serial No. 415,016. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,325. LIQUID POLISH FOR FINISHING AND COATING FLOORS AND OTHER SURFACES OF WOOD, LINOLEUM, RUBBER, CORK, TILE, ASPHALT, CONCRETE, CEMENT, COMPOSITION, MASTIC, MAGNESITE, TERRAZZO, MARBLE, TRAVERTINE, STONE, SLATE, AND METAL. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed January 18, 1939. Serial No. 415,022. PUBLISHED FEBRUARY 28, 1939. Class 16.

367,326. BOURBON WHISKEY. BELLE MEADE PRODUCTS COMPANY, INCORPORATED, Belle Meade, Va.
Filed January 20, 1939. Serial No. 415,030. PUBLISHED FEBRUARY 28, 1939. Class 49.

367,327. MECHANICAL REFRIGERATORS. MIDWEST MFG. COMPANY, Galesburg, Ill.
Filed January 20, 1939. Serial No. 415,051. PUBLISHED FEBRUARY 28, 1939. Class 31.

367,328. MATTRESSES, PILLOWS, AND BOX SPRINGS. CHARLES P. ROGERS & CO. INC., New York, N. Y.
Filed January 21, 1939. Serial No. 415,090. PUBLISHED FEBRUARY 28, 1939. Class 32.

367,329. RESILIENT VEHICLE TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 24, 1939. Serial No. 415,160. PUBLISHED FEBRUARY 28, 1939. Class 35.

367,330. RESILIENT VEHICLE TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 24, 1939. Serial No. 415,161. PUBLISHED FEBRUARY 28, 1939. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

367,331. (CLASS 39. CLOTHING.) FRIED OSTERMANN CO., Milwaukee, Wis. Filed Mar. 4, 1935. Serial No. 362,123.

TULENGTH CUFFS

For Boys' Coats.
Claims use since Jan. 30, 1935.

367,332. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ROBT. J. ROTHSTEIN, doing business as Rothstein Dental Laboratories, Washington, D. C. Filed Mar. 13, 1936. Serial No. 375,957.

Lyfelyke

For Artificial Teeth, Crowns, and Bridges, and Material Used in the Making Thereof—Namely, a Porcelain.
Claims use since April, 1935.

367,333. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) ATLAS HEATING & VENTILATING CO. LTD., San Francisco, Calif. Filed Apr. 28, 1937. Serial No. 391,945.

FILTERED HEAT

For Hot Air Furnaces and Air Conditioning Units.
Claims use since Mar. 27, 1937.

367,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL G. WILLIAMS, Los Angeles, Calif., assignor to Rudolph J. Freed, Los Angeles, Calif. Filed July 22, 1937. Serial No. 395,549.

BARLEE-KORN

For Bread, Cakes, Cookies, Rolls, Crackers, Doughnuts, and Coffee Cake.
Claims use since Mar. 1, 1935.

367,335. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE NORWOOD COMPANY, Chicago, Ill. Filed Jan. 22, 1938. Serial No. 402,233.

NORWOOD

For Music Stands.
Claims use since Jan. 10, 1938.

367,336. (CLASS 12. CONSTRUCTION MATERIALS.) CALBAR PAINT AND VARNISH COMPANY, Philadelphia, Pa. Filed Jan. 29, 1938. Serial No. 402,468.

MASON-SEAL

For Coating Material in Plastic Form for Brick, Concrete, and Brick Stucco.
Claims use since Nov. 1, 1937.

367,337. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) ASSOCIATION OF GAS APPLIANCE AND EQUIPMENT MANUFACTURERS, New York, N. Y. Filed Jan. 31, 1938. Serial No. 402,504.

CERTIFIED PERFORMANCE

For Gas Appliances—Namely, Gas Ranges.
Claims use since Jan. 24, 1938.

367,338. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED STATES RUBBER PRODUCTS, INC., New York, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Filed Feb. 12, 1938. Serial No. 402,993.

TEMPERED RUBBER

For Electrical Wire.
Claims use since Jan. 20, 1938.

367,339. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KNAPP ELECTRIC SHAVER, INC., Long Island City, N. Y., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri. Filed Feb. 21, 1938. Serial No. 403,260.

Kwik-Shave

For Hair Clippers and Electric Shavers.
Claims use since Jan. 25, 1938.

367,340. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KNAPP ELECTRIC SHAVER, INC., Long Island City, N. Y., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri. Filed Feb. 21, 1938. Serial No. 403,261.

KWIKWAY

For Hair Clippers and Electric Shavers.
Claims use since Jan. 25, 1938.

367,341. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KNAPP ELECTRIC SHAVER, INC., Long Island City, N. Y., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri. Filed Feb. 21, 1938. Serial No. 403,263.

VOGUE

For Hair Clippers and Electric Shavers.
Claims use since Jan. 25, 1938.

367,342. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KNAPP ELECTRIC SHAVER, INC., Long Island City, N. Y., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri. Filed Feb. 21, 1938. Serial No. 403,265.

MODERNE

For Hair Clippers and Electric Shavers.
Claims use since Jan. 25, 1938.

367,343. (CLASS 33. GLASSWARE.) GLASS CONTAINER ASSOCIATION OF AMERICA, New York, N. Y. Filed Mar. 31, 1938. Serial No. 404,707.

GLAS-PAK

For Glass Bottles, Glass Jars, Glass Decanters, Glass Flasks, Glass Tumblers, and Drinking Glasses.
Claims use since Mar. 24, 1938.

367,344. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES R. LISTER, New York, N. Y. Filed Apr. 16, 1938. Serial No. 405,361.

PEAU-DE-LAINE

For Textile Fabrics in the Piece—Namely, Wool Fabrics, Woolens, Worsted, Mohair, Cashmere, Cotton, and Combinations Thereof.
Claims use since Mar. 15, 1938.

367,345. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT B. WHEELAN, doing business as Wheelan Studios, New York, N. Y. Filed Apr. 16, 1938. Serial No. 405,427.

ETCHTONE

For Photographs.
Claims use since Mar. 22, 1938.

367,346. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) BLOOMINGDALE BROS., INC., New York, N. Y. Filed Apr. 19, 1938. Serial No. 405,436.

MURRAY BAY

For Whiskey.
Claims use since Mar. 19, 1938.

367,347. (CLASS 27. HOROLOGICAL INSTRUMENTS.) OSTBYE & ANDERSON, Minneapolis, Minn. Filed May 3, 1938. Serial No. 405,967.

HAMLIN

For Wrist Watches and Pocket Watches and Parts Thereof.
Claims use since Mar. 1, 1937.

367,348. (CLASS 17. TOBACCO PRODUCTS.) LONDON HOUSE, LTD., New York, N. Y. Filed July 2, 1938. Serial No. 408,163.

Sasieni

For Cigars and Smoking and Chewing Tobacco.
Claims use since Mar. 28, 1938.

367,349. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CURT J. ROHLAND, Providence, R. I. Filed Aug. 12, 1938. Serial No. 409,539.

ToughHide

For Preservative and Waterproofing Preparation for Leather Goods and the Like.
Claims use since Mar. 8, 1938.

367,350. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KNAPP-MONARCH COMPANY, St. Louis, Mo. Filed Sept. 12, 1938. Serial No. 410,469.

KNAPP Natural Angle SHAVER

For Dry Shavers.
Claims use since March, 1938.

367,351. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SEA-RO PACKING COMPANY INCORPORATED, New York, N. Y. Filed Sept. 26, 1938. Serial No. 411,010.

NEK-SEAL

For Machinery Packing.
Claims use since October, 1936.

367,352. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Nov. 9, 1938. Serial No. 412,567.

Vanderbilt Ave.

For Whiskey.
Claims use since Sept. 15, 1937.

367,353. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) POWDRELL & ALEXANDER, INC., Danielson, Conn. Filed Dec. 9, 1938. Serial No. 413,641.

BONET

For Curtain Materials in the Piece and for Curtains Made Therefrom.
Claims use since Nov. 25, 1937.

367,354. (CLASS 47. WINES.) GARCIA WINE CORP., Long Island City, N. Y. Filed Dec. 24, 1938. Serial No. 414,186.

GARCIA

For Wines.
Claims use since January, 1936.

367,355. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RE-PLATE-O PRODUCTS, Aurora, Ill. Filed Jan. 5, 1939. Serial No. 414,534.

RE-PLATE-O

For Polishing Compound for Metals Having Incidental Plating Properties.
Claims use since Sept. 1, 1927.

367,356. (CLASS 38. PRINTS AND PUBLICATIONS.) KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Feb. 1, 1939. Serial No. 415,479.

INSPECTOR WADE

For Cartoons.
Claims use since May 20, 1935.

367,357. (CLASS 45. BEVERAGES, NONALCOHOLIC.) HARLINGEN CANNING CO., also doing business as Southern Sales Co., Harlingen, Tex. Filed Mar. 6, 1939. Serial No. 416,729.

SILVER VALLEY

For Canned Citrus Juices for Beverage Purposes.
Claims use since Feb. 7, 1938.

TRADE-MARK REGISTRATIONS RENEWED

16,487. **MOUNTAIN.** ICE CREAM FREEZERS. Registered April 9, 1889. THE WHITE MOUNTAIN FREEZER COMPANY. Re-renewed April 9, 1939, to The White Mountain Freezer Company, Inc., Nashua, N. H., a corporation of New Hampshire, successor.

16,529. **ZETA.** PETROLEUM LUBRICATING OIL. Registered April 23, 1889. VACUUM OIL COMPANY. Renewed April 23, 1939, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, assignee.

17,054. **MANHATTAN.** MACHINERY PACKING. Registered September 24, 1889. GREENE, TWEED & CO. Renewed September 24, 1939, to Greene, Tweed & Co., New York, N. Y., a corporation of New York, assignee.

124,949. **HIDEM.** FINISHING WELTS OR BINDING USED IN UPHOLSTERING VEHICLE-BODIES, FURNITURE, ETC. Registered April 1, 1919. THE BACKSTAY MACHINE AND LEATHER CO. Renewed April 1, 1939, to Backstay Welt Company, Union City, Ind., a corporation of Indiana, assignee.

125,134. **LOLA.** TOMATO PASTE. Registered April 15, 1919. EMMOLO BROS., Cloverdale, Calif. Renewed April 15, 1939, to Emmolo Bros., Rutherford, Calif., a firm.

125,230. **ONYX.** VANISHING CREAM, COLD-CREAM, MENTHOL CREAM, AND PEROXID CREAM. Registered April 22, 1919. S. S. KRESGE COMPANY, Detroit, Mich. Renewed April 22, 1939, to Rimmel, Inc., West Orange, N. J., a corporation of New Jersey, assignee.

125,341. **METROPOLITAN.** WHEAT-FLOUR AND RYE-FLOUR. Registered May 13, 1919. HECKER-JONES-JEWELL MILLING COMPANY. Renewed May 13, 1939, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

125,446. **BRITELLA.** CERTAIN NAMED CLOTHING FOR WOMEN. Registered May 20, 1919. WILLIAM HOLLINS & COMPANY, LIMITED, London, England. Renewed May 20, 1939, to William Hollins & Company, Limited, Nottingham, England, a British corporation.

125,447. **SOLUNA.** CERTAIN NAMED CLOTHING FOR WOMEN. Registered May 20, 1919. WILLIAM HOLLINS & COMPANY, LIMITED, London, England. Renewed May 20, 1939, to William Hollins & Company, Limited, Nottingham, England, a British corporation.

125,562. **CHIEF PONTIAC.** WHEAT-FLOUR. Registered May 27, 1919. COMMERCIAL MILLING COMPANY, Detroit, Mich., a corporation of Michigan. Renewed May 27, 1939.

126,443. **SKY LARK.** SELF-RISING FLOUR. Registered August 26, 1919. LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind., a corporation of Indiana. Renewed August 26, 1939.

126,536. **XL.** PUMP AND VALVE LEATHERS, AND WASHERS OF LEATHER AND GASKETS OF LEATHER. Registered September 16, 1919. EXCELSIOR LEATHER WASHER MANUFACTURING CO., Rockford, Ill., a corporation of Illinois. Renewed September 16, 1939.

126,557. **WONDROUS ISLE.** CERTAIN NAMED PIECE GOODS. Registered September 16, 1919. LESHER, WHITMAN & CO., INC., New York, N. Y. Renewed September 16, 1939, to Goodall Worsted Co., Sanford, Maine, a corporation of Maine, successor.

126,591. **PUROX.** WELDING AND CUTTING TORCHES. Registered September 23, 1919. THE BURDETT OXYGEN COMPANY, Denver, Colo. Renewed September 23, 1939, to Oxweld Acetylene Company, New York, N. Y., a corporation of West Virginia, assignee by mesne assignments.

126,603. **LUXOR.** TANNED AND FINISHED CALF AND SIDE LEATHER. Registered September 23, 1919. THE OHIO LEATHER COMPANY, Girard, Ohio, a corporation of Ohio. Renewed September 23, 1939.

126,646. **ARTCRAFT.** WALL-PAPERS. Registered September 30, 1919. BENJAMIN BUCHBINDER. Renewed September 30, 1939, to Artcraft Wallpaper Company, Inc., New York, N. Y., a corporation of New York, assignee.

126,728. **CAPITOL.** APPLE-CIDER VINEGAR. Registered September 30, 1919. NATIONAL FRUIT PRODUCT COMPANY, INC., Alexandria, Va. Renewed September 30, 1939, to National Fruit Product Company, Inc., Washington, D. C., a corporation of Virginia.

126,738. **O K.** FRESH CITRUS FRUITS—NAMELY, LEMONS. Registered September 30, 1919. OXNARD CITRUS ASSN., Hueneme and Oxnard, Calif. Renewed September 30, 1939, to Ontario-Cucamonga Fruit Exchange, doing business as O. K. Fruit Exchange, Upland, Calif., a corporation of California, successor.

126,801. **OPTIMA.** FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, TANGERINES, AND GRAPE-FRUIT. Registered September 30, 1919. VALLEY VIEW RANCH, Ontario, Calif. Renewed September 30, 1939, to Alta Loma Heights Citrus Association, Alta Loma, Calif., a corporation of California, successor.

LABELS

REGISTERED MAY 9, 1939

52,945.—*Title:* CARNIVAL. For Pop Corn. AMERICAN POP CORN COMPANY, Sioux City, Iowa. Published March 15, 1939.

52,946.—*Title:* JOLLY TIME. For Pop Corn. AMERICAN POP CORN COMPANY, Sioux City, Iowa. Published March 15, 1939.

52,947.—*Title:* WAXED LUNCH WRAPS. For Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

52,948.—*Title:* AWFUL FRESH MacFARLANE, THE SCOTCH CANDYMAKER. For Chocolate Creams and Chews. AWFUL FRESH MacFARLANE, Oakland, San Francisco, and Berkeley, Calif. Published January 17, 1939.

52,949.—*Title:* NEVR-DULL, MAGIC WADDING POLISH. For a Wadding Polish for All Metals. THE GEORGE BASCH CO., New York, N. Y. Published December 22, 1938.

52,950.—*Title:* THE SMILE POWDER PUFF. For Powder Puffs. MARGUERITE CHAMBERLIN, doing business as M. L. Chamberlin, St. Louis, Mo. Published March 25, 1939.

52,951.—*Title:* DIRECTIONS. For Facial Oil. GRAITMORE COMPANY, INC., New York, N. Y. Published December 20, 1938.

52,952.—*Title:* GRIFFITH'S SAUSAGE SEASONING. For Sausage Seasoning. THE GRIFFITH LABORATORIES, INC., doing business as The Griffith Laboratories, Chicago, Ill. Published October 19, 1938.

52,953.—*Title:* HUNTER DISTILLED LONDON DRY GIN. For Gin. HUNTER BALTIMORE RYE DISTILLERY, INC., Baltimore, Md. Published April 1, 1939.

52,954.—*Title:* LEVET. For Stockings. BENJ. LEVITT & BROS., New York, N. Y. Published August 4, 1938.

52,955.—*Title:* DR. LOUGHNEY'S "ANTI-SPASTHMA-OYL". For an Oil for Relief of the Symptoms of Asthma, Hay Fever, Bronchitis, Rhinitis, Laryngitis, Pharyngitis, Head Colds, Chest Colds and Pneumonia. A. M. LOUGHNEY, Seattle, Wash. Published December 29, 1938.

52,956.—*Title:* MY-AM-EYE. For Cigars. JOHN B. LUCAS, Tampa, Fla. Published September 24, 1938.

52,957.—*Title:* SIGARI LUPO. For Cigars. LUPO CIGAR COMPANY, New York, N. Y. Published February 15, 1939.

52,958.—*Title:* MARKUS CLEANSEEN. For Cold Cream. CHARLES I. MARKUS, Los Angeles, Calif. Published March 27, 1939.

52,959.—*Title:* BOYD'S. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published March 15, 1939.

52,960.—*Title:* WALTZETTE. For Pumps. FRANK C. MEYER CO. INC., New York, N. Y. Published July 27, 1937.

52,961.—*Title:* HALUTZ. For Cigarettes. NEAR EAST TOBACCO COMPANY, INC., New York, N. Y. Published March 24, 1939.

52,962.—*Title:* OROGOLD. For a Preparation Containing Blended Fresh Orange, Sugar, Certified Color, 1/10 of 1% Sodium Benzoate, Fruit Acid and Flavor for Making a Beverage. THE OROGOLD CO., Dallas, Tex. Published February 23, 1939.

52,963.—*Title:* PARTEE'S ANTI-PILES. For a Liquid Astringent Used to Allay Protruding, Bleeding, and Itching Hemorrhoids (Piles). CHARLES W. PARTEE, doing business as Select Products Company, Memphis, Tenn. Published November 18, 1938.

52,964.—*Title:* WONDER, THE LEATHER WITH THE IRON GRIP. For Round Leather Belting. PENNWELL OIL & BELTING CO., INC., New York, N. Y. Published January 20, 1939.

52,965.—*Title:* CARMEL BRAND KOSHER NATURAL AMERICAN CHEESE. For Cheese. U. S. ALASKA HERRING CO. INC., Chicago, Ill. Published March 21, 1939.

52,966.—*Title:* FRESH WHEAT BREAD. For Bread. WAXIDE PAPER COMPANY, Kansas City, Mo. Published April 12, 1939.

52,967.—*Title:* FULL O' SUN. For Texas Vegetables. JOHN WIESEHAN, doing business as John Wiesehan & Co., McAllen, Tex. Published March 1, 1938.

PRINTS

REGISTERED MAY 9, 1939

17,378.—*Title:* WAT-A-PAD. For Trusses. LEWIS A. FRITSCH, Cincinnati, Ohio. Published April 6, 1939.

17,379.—*Title:* SOUVENIR—GREAT SMOKY MOUNTAINS NAT'L PARK—GENUINE INDIAN ARROWHEAD. For Genuine Indian Arrowheads. JAMES GILL JOHNSON, Nashville, Tenn. Published March 7, 1939.

17,380.—*Title:* MARIN-DELL CREAMLINED. For Milk. MARIN DAIRYMEN'S MILK CO., LTD., San Francisco, Calif. Published February 13, 1939.

17,381.—*Title:* "YANKEE" HANDYMAN SCREW DRIVER WITH THESE ACCESSORIES BORES HOLES COUNTERSINKS FOR HEAD OF SCREW DRIVES SMALL SCREWS. For Screw Drivers. NORTH BRO'S. M'F'G. CO., Philadelphia, Pa. Published February 27, 1939.

17,382.—*Title:* TASTY-PIE SKYWAY LUNCH. For Pie. TASTY BAKING COMPANY, Philadelphia, Pa. Published April 10, 1939.

REISSUES

MAY 9, 1939

21,074

HIGH-FREQUENCY INDUCTANCE

Alfred Crossley and Charles C. Neighbors, Chicago, Ill., assignors to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Original No. 1,978,568, dated October 30, 1934, Serial No. 719,737, April 9, 1934. Application for reissue October 20, 1936, Serial No. 106,584

3 Claims. (Cl. 175—356)



1. A high-frequency inductance device comprising a single pancake winding having an external diameter of approximately one inch and a low-loss open type cylindrical core of compressed comminuted magnetic material disposed within said winding, said winding being mounted concentrically upon said core and spaced therefrom to provide insulation of the order of 0.002 inch; said core being of such nature that the losses which it introduces are materially less in amount than the difference between losses arising in said winding and the larger losses which would arise because of more wire and insulating material in the winding of an inductance of equal value but having no magnetic core, the axial length of said winding being not less than three-eighths and not more than two-thirds of the radial depth of said winding, the length of said core being not less than three-quarters and not more than one and one-half times the diameter of said core, and the radial depth of said winding being not less than four tenths and not more than nine-tenths of the diameter of said core, whereby a higher ratio of desired inductance to undesired dissipative losses and an inductance which may be enclosed in a small shield may be secured than with a comparable inductance of a type having no magnetic core.

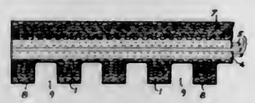
21,075

BELT

Abraham L. Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio

Original No. 2,016,140, dated October 1, 1935, Serial No. 725,397, May 12, 1934, which is a refile of abandoned application Serial No. 550,477, July 13, 1931. Application for reissue September 13, 1937, Serial No. 163,655

14 Claims. (Cl. 74—233)



1. In a belt, independent tension, neutral axis and compression sections of rubber and textile material vulcanized together, said compression section comprising a continuous readily flexed portion immediately adjacent the neutral axis section, and toothed portions mounted on the continuous portion.

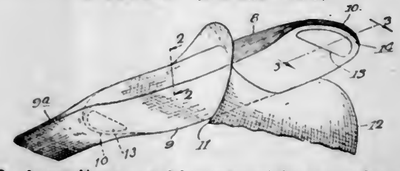
21,076

SANITARY NAPKIN

Edwin E. Glomstead, Menasha, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware

Original No. 1,857,854, dated May 10, 1932, Serial No. 593,360, February 16, 1932. Application for reissue July 6, 1937, Serial No. 152,265

5 Claims. (Cl. 128—290)



3. A sanitary napkin comprising an absorbent pad element which is disintegrable in water and a wrapper of textile material, the pad element having an area in an end portion thereof compacted sufficiently to produce an area of compression permanently reduced in thickness relative to the normal thickness of the pad, one surface of said area being substantially offset relative to the normal surface of the pad and there being an angularly disposed surface portion intervening between and connecting said surface of the compressed area with said normal surface of the pad, said area serving to stiffen such end portion sufficiently to main the same in substantially flat condition when the napkin is applied.

21,077

PECTATE AND METHOD OF MAKING SAME

Clarence Walter Wilson, Norco, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California

No Drawing. Original No. 2,132,065, dated October 4, 1938, Serial No. 75,019, April 17, 1936. Application for reissue January 3, 1939, Serial No. 249,154

19 Claims. (Cl. 260—210)

1. A crude pectated pulp of the nature described characterized by being capable of yielding pectates of the group consisting of pectates of the alkali metals and ammonium; the pectates yielded being fibrous in character and being obtained by dispersing the crude pulp in an aqueous medium, filtering the dispersion, and precipitating the fibrous pectate from the filtrate; the dispersion of the crude pulp being accomplished by boiling up about 100 parts (dry bases) of the crude pectated pulp with about 12 parts of a tribasic phosphate of the group consisting of the alkali metals and ammonium and about 1.2 parts of an hydroxide of the group consisting of the alkali hydroxides and ammonium hydroxide in about 2000 parts of water; the precipitation after filtration being accomplished by adding the filtrate to an approximately equal volume of alcohol.

PATENTS

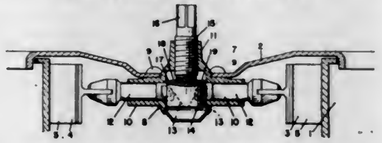
GRANTED MAY 9, 1939

2,157,091

BRAKE MECHANISM

Carl F. Baisch, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application April 20, 1936, Serial No. 75,458
15 Claims. (Cl. 188—79.5)



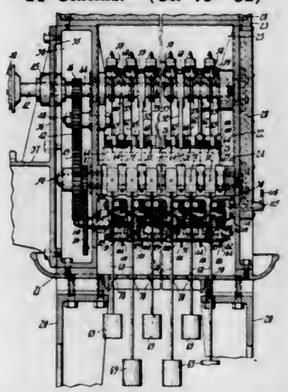
1. In a brake mechanism, the combination with a brake drum and brake friction means engageable with said drum and having ends, of an adjustment anchor device for said friction means, said device comprising a bracket, links guided by said bracket and operatively connected to said ends, a longitudinally adjustable wedge for adjusting said links, said wedge being held from rotation, a rotatable member carried by said bracket for adjusting said wedge longitudinally, and cooperating means upon said wedge and member including a flexible member for indicating predetermined increments of adjustment.

2,157,092

FABRIC TESTING APPARATUS

Raymond W. Allen and Theodore A. Te Grotenhuis, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application June 24, 1936, Serial No. 86,980
14 Claims. (Cl. 73—51)



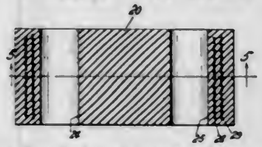
1. In testing apparatus of the character described, the combination of means engaging the respective ends of a cord strand and supporting it in vertical position, the lowermost of said cord-supporting means being of determinate weight so as to impose a determinate, normal, tensile strain on the cord, means periodically engaging said lowermost cord-supporting member to hold it fixedly in position, and means for periodically moving the uppermost cord-engaging member relatively of the lowermost cord-engaging member to subject the cord to sub-normal tensile strain followed by super-normal tensile strain during intervals when the lower cord-engaging member is fixedly held.

2,157,093

METHOD OF MAKING A FLEXIBLE COUPLING

Henry P. Bemis, Newton Center, Mass., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application June 21, 1935, Serial No. 27,752
2 Claims. (Cl. 154—2)



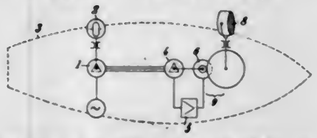
1. The method of making flexible coupling links which comprises removing the stretch from a length of cable cord, winding the said cord about a block of unvulcanized rubber composition in a succession of adjacent convolutions, applying a covering layer of unvulcanized rubber over the said convolutions, and then vulcanizing the assembled structure.

2,157,094

SYSTEM FOR THE ELECTRICAL TRANSFER OF ROTARY MOTION

Konrad Beyerle, Kiel-Neumuhlen, Germany, assignor to Anschütz & Co. G. m. b. H., Kiel-Neumuhlen, Germany

Application July 27, 1938, Serial No. 221,641
In Germany March 20, 1936
8 Claims. (Cl. 172—239)



1. System for the electrical transfer of rotary motion comprising a sender and a receiver both of the rotatable transformer type composed of a stator and a rotor, electrical conduits connecting said sender with said receiver, an electric motor controlled by said receiver and directly connected with the rotor thereof, said sender and said receiver constituting an electrical speed change transmission in which a partial revolution of the sender causes the receiver to perform one complete revolution.

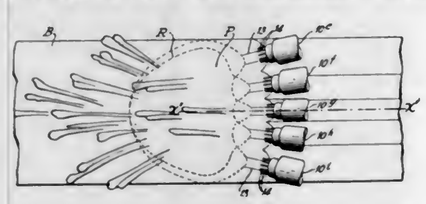
2,157,095

METHOD AND APPARATUS FOR DESURFACING FERROUS METAL BODIES

James Harold Bucknam, Cranford, N. J., assignor to The Linde Air Products Company, New York, N. Y., a corporation of Ohio

Application October 24, 1936, Serial No. 107,373
5 Claims. (Cl. 148—9)

1. The process of thermo-chemically desurfacing a ferrous metal body which comprises impinging a plurality of oxidizing gas streams upon a region extending across a surface of said body when at the oxygen ignition temperature, said streams being applied through nozzles arranged to supply gas in relatively large volumes at acute angle to a plane tangent to the surface being removed in the region of impingement and in the general direction of advance of the desurfacing reaction, inclining said streams mutually toward each other by orientations through angles of from five to twenty degrees about axes substantially perpendicular to said tangent plane, said orientation having a direction and magnitude such as to derive an external component of force supplementing the normal cohesive forces which operate in the surface of the reaction puddle that forms in the region impinged by said oxidizing gas streams to an extent which causes the reaction puddle to move centrally ahead of the reaction zone with little liability to sloughing off at the sides, and imparting relative motion to said plurality of oxidizing gas streams and said metal body.

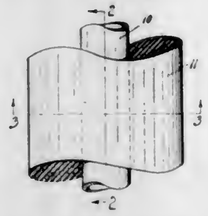


2,157,096

THERMAL INSULATION

Harold W. Greenup, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application February 10, 1936, Serial No. 63,081
6 Claims. (Cl. 91—68)



1. Thermal insulation comprising hard rubber composition having microscopic pores extending throughout said composition and having an apparent approximate density of .14 and containing approximately 88% void space by volume, and an impervious coating on the outer surface of said composition for sealing the ends of said pores.

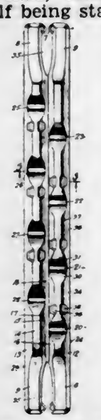
2,157,097

INGOT FOR FEEDING MACHINES

Albert H. Jung, Flushing, N. Y., assignor to United American Metals Corporation, Brooklyn, N. Y., a corporation of New York

Application March 5, 1938, Serial No. 194,022
2 Claims. (Cl. 22—218)

2. A one-piece ingot of the character described provided with a deep longitudinal groove dividing the ingot into two longitudinally arranged halves and with a series of shallower transverse grooves in each half, each of the transverse grooves of one half being staggered intermediate



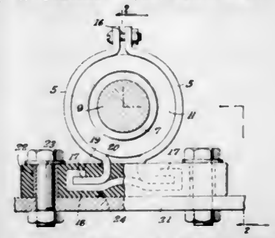
a pair of the transverse grooves of the other half.

2,157,098

BEARING

Howell Potter, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut

Application August 24, 1936, Serial No. 97,527
2 Claims. (Cl. 308—184)



1. In a device of the character indicated, opposed strap members each arcuately formed so as to provide a substantially circular housing, an anti-friction bearing comprising inner and outer bearing rings with interposed anti-friction bearing members, said outer ring being embraced within said arcuately formed portions of said straps, means for adjustably connecting said straps for securing said bearing between said straps, a securing base member connecting the bottoms of said straps, the bottoms of said straps and securing base member being permanently embedded in a block of rubber formed integrally thereabout, bolt holes extending through said block of rubber, spacer bushings in said bolt holes, and bolts extending through said spacer bushings and securing said block of rubber and parts carried thereby to a support.

2,157,099

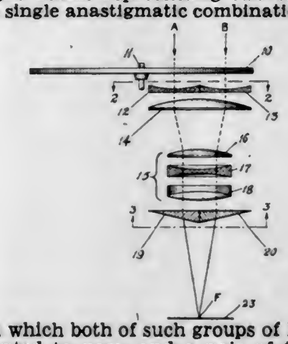
OPTICAL SYSTEM FOR STEREOSCOPIC MOTION PICTURE PRODUCTION AND PROJECTION

Charles G. Rosenhauer, Brooklyn, N. Y., assignor of one-half to Armand E. Lackenbach, New York, N. Y.

Application June 1, 1935, Serial No. 24,466
6 Claims. (Cl. 88—16.6)

1. In an optical system for producing motion pictures exhibiting stereoscopic effects when pro-

jected, the combination of a pair of plano-concave contiguously disposed objective lenses through which are adapted to be passed a plurality of light beams in two groups, each group of such light beams representing two separate eye views, a single anastigmatic combination of lenses



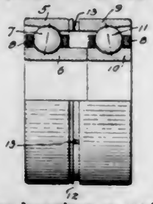
through which both of such groups of light beams are adapted to pass, and a pair of transparent prisms serving to converge said groups of light beams to a common focal point upon a film, thereby exposing the image produced by said beams upon said film at said focal point.

2,157,100
GLAZED CERAMIC INSULATOR AND THE LIKE
Davidge H. Rowland, Baltimore, Md., assignor to Locke Insulator Corporation, a corporation of Maryland
Application December 20, 1938, Serial No. 246,869
5 Claims. (Cl. 174—209)



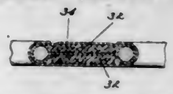
5. An insulator having a body of ceramic material having a low coefficient of expansion and a glaze, the latter being of ceramic insulating material having a coefficient of expansion substantially less than that of the body, said glaze being under compression throughout the normal operating range of temperature of the insulator.

2,157,101
BEARING
John W. Smith, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application May 16, 1936, Serial No. 80,082
3 Claims. (Cl. 308—195)



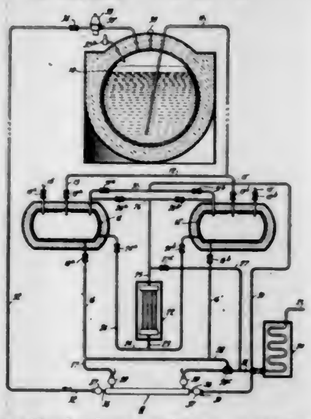
1. In a duplex bearing, a pair of anti-friction bearings, each comprising an outer bearing ring, an inner bearing ring and interposed anti-friction bearing members, said outer rings of said two bearings being in end contact with each other, said inner bearing rings of said two bearings being in end contact with each other and said bearings being proportioned so as to be preloaded when said rings are in end contact with each other as aforesaid, the outer bearing ring of one of said anti-friction bearings projecting substantially beyond its inner bearing ring at the end facing said other bearing.

2,157,102
REINFORCED LAMINATED GASKET
John H. Victor, Wilmette, and Joseph B. Victor, Oak Park, Ill., assignors to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois
Application November 6, 1936, Serial No. 109,500
2 Claims. (Cl. 288—1)



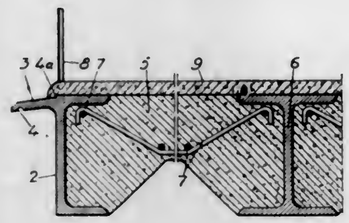
1. A gasket, having openings therethrough and comprising upper and lower layers of metal, two intermediate layers of resilient packing material between said upper and lower layers, a middle metallic layer between the resilient layers, and means extending about and reinforcing the openings, said means comprising flanges on the upper and lower metallic layers and a metallic rod, the flange of the upper metallic layer encircling said rod and the flange of the lower layer encircling the rod and the corresponding portion of the upper layer.

2,157,103
APPARATUS FOR AND METHOD OF OPERATING CASCADE SYSTEMS
George H. Zenner, Kenmore, N. Y., assignor to The Linde Air Products Company, New York, N. Y., a corporation of Ohio
Application June 24, 1936, Serial No. 86,954
15 Claims. (Cl. 62—1)



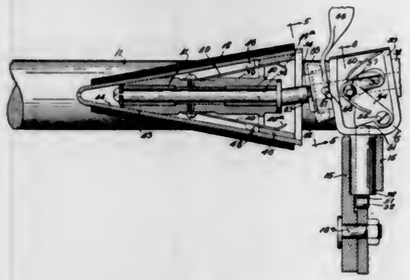
1. The method of operating a cascade system having but one set of transfer vessels that are in parallel, which comprises charging said vessels in turn with desired charges of liquid from a common source of supply, discharging the liquid from said charged vessel to a receiver through a heat exchanging device, and reliquefying gas from another of said vessels by passage in heat exchanging relation through said device to a storage space associated with said supply, which supply is at a pressure materially below the operating pressure of the discharging vessel.

2,157,104
BEAM
Nils Viktor Andersson, Stockholm, Sweden
Application December 1, 1937, Serial No. 177,474
In Sweden December 9, 1936
3 Claims. (Cl. 72—69)



1. In combination with a floor, a beam for supporting the outer edge of said floor, said beam having at least one flange on one side of the web extending under said floor and a single flange on the opposite side and upper portion of said web extending from under the edge of said floor, said single flange forming an angle to the web of less than 90° and serving as a rain-board.

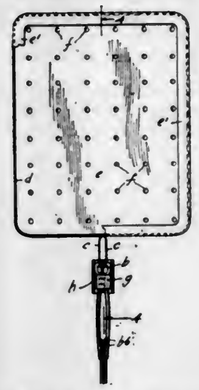
2,157,105
WINDING MACHINE
Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire
Application October 29, 1935, Serial No. 47,247
9 Claims. (Cl. 242—18)



1. A winding machine having therein a rotatable roll on which the winding package rests, a swinging arm, a winding package holder, a connection between said swinging arm and the package holder permitting approximately endwise movement of the package holder bodily toward and away from the swinging arm to shift the package along the roll, and means operated by swinging of the arm for causing said movement.

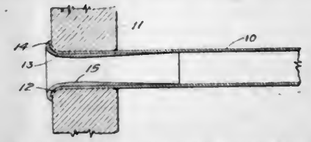
2,157,106
FLY SWATTER
Donald Baker, Portland, Oreg., assignor of one-half to Agnes N. Mumford, Portland, Oreg.
Application March 16, 1936, Serial No. 68,986
3 Claims. (Cl. 43—137)

1. A device of the character described, comprising a head and a handle, the head being



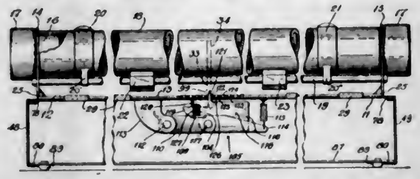
provided with an elastic marginal frame and a rubber facing loosely secured to said frame.

2,157,107
CONDENSER TUBE PROTECTOR
Thomas J. Bay, United States Navy
Application May 9, 1938, Serial No. 206,827
3 Claims. (Cl. 285—54)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Means for protecting from corrosion the end of a tube extending through a header plate comprising a tubular insert of resilient material secured in the inlet end of said tube and sufficiently expansible to closely conform to irregularities in the configuration thereof for absorbing the impact of media entering said tube.

2,157,108
TOY TYPEWRITER
Sidney R. Bell, Stamford, Conn.
Application April 2, 1935, Serial No. 14,216
5 Claims. (Cl. 197—89)



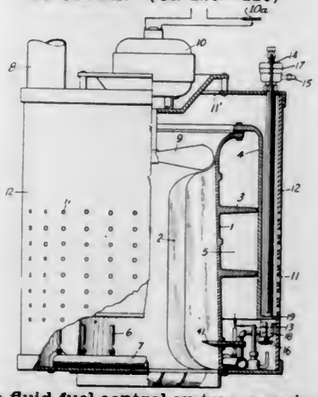
3. In a toy typewriter, a casing, a carriage slidably guided by said casing and having a horizontal plate comprising a row of alined perforations, an escapement member, means for pivotally supporting one end of said escapement member, spring means normally holding another end of said escapement member elevated, and an unbalanced member pivoted to said escapement member and including means adapted to cooperate with one of said perforations to advance said carriage one step laterally.

2,157,109

APPARATUS FOR CONTROLLING FLOW OF FUEL TO A HEATING DEVICE

William D. Bell, Columbus, Ohio, assignor to The Cleveland Heater Company, Cleveland, Ohio

Application May 11, 1934, Serial No. 725,204
Renewed July 20, 1937
13 Claims. (Cl. 126—110)



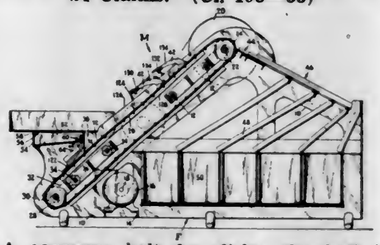
1. In a fluid fuel control system, a main burner, a source of fuel supply for said main burner, a valve for controlling supply of fuel to said main burner, a thermostatic element for actuating said valve, a constantly burning auxiliary burner disposed in position to ignite the main burner when fuel is supplied thereto, means for supplying fuel to said auxiliary burner, said auxiliary burner being located adjacent said thermostatic element and having a jet of flame which normally does not impinge upon said thermostatic element, and means for delivering a jet of air against the jet of flame of said auxiliary burner to bend it so that it will impinge upon said thermostatic element causing it to be heated and to actuate said valve in order to permit fuel to be supplied to said main burner.

2,157,110

DISK CHARGE-FORMING APPARATUS

Alfred C. O. Bock and Jacob J. Ernau, Brooklyn, N. Y.; said Ernau assignor to said Bock

Application March 22, 1933, Serial No. 662,020
24 Claims. (Cl. 198—53)



1. A conveyor belt for disks, the belt being designed for use in a machine to separate a mass of the disks into unit charges, the belt consisting of a plurality of sections connected together at adjacent edges, each section consisting of a flat plate having superposed thereon a member provided with a plurality of cut-outs at each edge of the member, the sections being constructed so that, when laid in edge-to-edge abutting relation, the cut-outs at the abutted edges will define closed recesses upon the plates.

12. Apparatus for conveying disks of various sizes for assorting into groups all of which in a group are of substantially the same size, the apparatus including a conveyor belt for moving the disks to a predetermined elevation, the belt having a plurality of disk-receiving depressions, and a supply hopper cooperating with the conveyor, the supply hopper including a pocket extending downwardly along the conveyor and tapering downwardly to an end portion, the end portion of the tapered pocket being of a dimension such that only a single disk can at any instant be positioned at any point in the portion, each of the depressions having means cooperating with an adjacent wall of the pocket for expelling from the end portion disks not seated within the depressions.

2,157,111

RECHARGEABLE DRY CELL BATTERY

Charles F. Bonilla, New York, N. Y., assignor to Bates Laboratories, Inc., New York, N. Y., a corporation of New York

No Drawing. Application December 7, 1934, Serial No. 756,559
2 Claims. (Cl. 136—102)

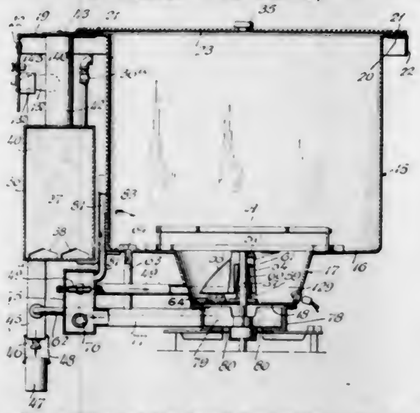
1. A rechangeable dry cell of the character described comprising a zinc container which constitutes one electrode, a carbon rod inserted in said container and constituting the second electrode, a depolarizer composition interposed between the zinc container and the carbon rod and consisting essentially of granular carbon and manganese dioxide, and an electrolyte homogeneously distributed through said composition and consisting essentially of an aqueous mixture of sodium formate, zinc chloride, starch and water.

2,157,112

MACHINE FOR CLEANSING AND TREATING

Douglas E. Bonner, New York, N. Y.

Application September 16, 1931, Serial No. 563,029
6 Claims. (Cl. 141—9)



1. A machine of the kind described comprising a tank having a relatively flat bottom, a sump depending from said bottom and communicating with said tank, a reservoir for liquid, a heating chamber, a connection from said reservoir to said sump passing through said heating chamber whereby liquid is conducted to the sump, heating means in said heating chamber effective on said connection during an operative period for progressively heating the liquid as it flows through said connection before said liquid reaches said sump, impelling means in said sump for throwing the liquid therein upwardly into said tank, means for operating said impelling means, and a hot air connection from said heating chamber to said tank.

2,157,113

PRESERVATION OF FERMENTABLE MATERIALS

Thomas S. Carswell, Glendale, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 20, 1937, Serial No. 143,729
6 Claims. (Cl. 21—2)

1. The method of preventing the growth of micro-organisms in an organic material subject to decomposition thereby, selected from the group consisting of fermentable sugars and starches and caseic proteins, which comprises adding to said material a mixture of a polychlorophenol and an activating agent consisting of a metallic borate.

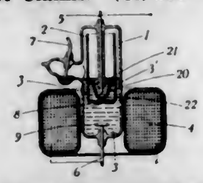
4. A composition of matter embodying an organic material subject to decomposition by micro-organisms selected from the group consisting of fermentable sugars and starches and caseic proteins, and a preservative therefor consisting of a polychlorophenol and an activating substance consisting of a metallic borate.

2,157,114

ELECTRIC SWITCH

Alfredo Cianchi, London, England

Application November 27, 1935, Serial No. 51,962
In Great Britain November 27, 1934
20 Claims. (Cl. 200—97)



1. An electric switch comprising a receptacle containing a conducting liquid and an armature of magnetic material, said armature forming at least part of a vessel receiving part of the conducting liquid, at least two contact members cooperating with the conducting liquid, magnetic means acting on said armature to vary its extent of immersion in said conducting liquid and therefore the level of the conducting liquide to cause said conducting liquid to make or break electrical connection between at least two of said contact members, said vessel having an opening establishing communication between the conducting liquid inside and outside said vessel, and a valve closing said opening at least partially when said armature moves from the position it occupies when the magnetic means is inoperative.

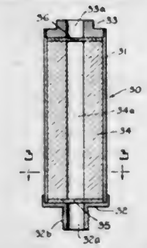
2,157,115

MUFFLER

Edward S. Cornell, Jr., Larchmont, N. Y., assignor to American Radiator Company, New York, N. Y., a corporation of New Jersey

Application August 11, 1937, Serial No. 158,484
4 Claims. (Cl. 181—50)

1. A muffler for silencing the discharge from an air motor or the like comprising, in combination, an outer shell, a cylindrical lining of sound-absorbing material contained within said shell, said cylindrical lining having an axial passage affording continuous and substantially unrestricted flow of discharge gas therethrough, closure means arranged to cap the ends of said shell, said closures being provided with inlet and outlet ports in register with said axial passage, and porous cushion means interposed between



said cylinder and the said top and bottom closures, said cushion means disposed directly in the path of gas flow and arranged to create turbulences in said gas flow during passage thereof through said muffler.

2,157,116

STOCKING AND METHOD FOR PRODUCING SAME

Wallace H. Carothers, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 15, 1937, Serial No. 125,886
14 Claims. (Cl. 66—202)



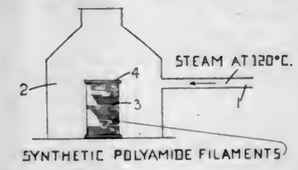
1. A stocking knitted from synthetic polyamide fibers.

2,157,117

STEAM TREATMENT OF POLYAMIDES

John B. Miles, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 15, 1937, Serial No. 125,941
15 Claims. (Cl. 18—54)



1. In a process for manufacturing improved shaped articles from fiber-forming synthetic polyamides, the step which comprises treating the article formed from said polyamides with steam.

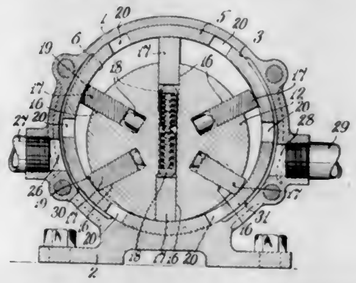
2,157,118
SYNTHETIC FIBERS
Winfield W. Heckert, Ardentown, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 28, 1938, Serial No. 216,408
8 Claims. (Cl. 28—1)

1. A method for improving the properties of synthetic linear condensation polyamides in the form of filaments, fibers, bristles, films, fabrics and the like which comprises treating said polyamides in such form with a setting agent in the presence of a water-soluble sulfite.

2,157,119
METHOD OF MAKING FABRIC
John Blanchard Miles, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 28, 1938, Serial No. 216,409. In Germany February 10, 1938
6 Claims. (Cl. 28—1)

1. The process of fabricating knitted goods containing synthetic linear condensation polyamide fibers which comprises knitting yarns comprising said fibers, pre-boarding the knitted goods, thereafter subjecting the goods to a hot liquid treatment, then re-boarding the goods whereby to impart to the goods a smooth, wrinkle free appearance.

2,157,120
MOTOR
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application January 5, 1938, Serial No. 183,421
10 Claims. (Cl. 121—57)

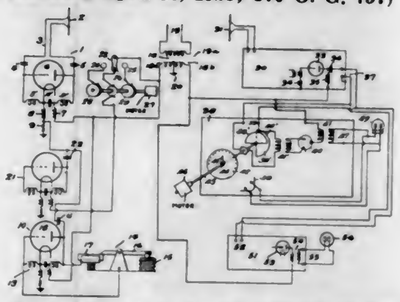


1. In a motor of the character described, the combination of a stationary casing having a bore, heads closing the opposite ends of said bore, a cylindric sleeve arranged concentrically within the bore and journaled in bearings supported within the casing heads for free rotation relative to the casing, a rotor mounted eccentrically within the sleeve and journaled within the casing heads for rotation relative to the casing about an axis parallel to the axis of rotation of said sleeve, radially movable vanes guided on said rotor and arranged to bear throughout their length against the inner smooth cylindric surface of the sleeve, a connection between one of said vanes and said sleeve whereby rotation of the rotor effects rotation of the sleeve, and motive fluid supply and exhaust means for the motor including fluid supply and exhaust passages and ports in said sleeve for connecting the spaces bounded by the inner surface of the sleeve, the outer surface of the rotor and pairs of mutually adjacent vanes, with said supply and exhaust passages.

2,157,121
BEARING ALLOY
Ernest R. Darby, Lawrence A. Barera, and Philip J. Potter, Detroit, Mich., assignors to Federal-Mogul Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application July 23, 1937, Serial No. 155,218
5 Claims. (Cl. 75—166)

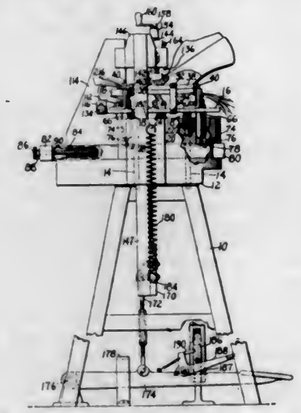
2. A bearing metal alloy consisting of from .75 to 1.50 per cent antimony, from 2.50 to 5 per cent silver, from 17 to 23 per cent cadmium, and from 70.50 to 79.75 per cent lead.

2,157,122
WARNING SYSTEM FOR INDICATING THE PROXIMITY OF AIRCRAFT
Francis W. Dunmore, Washington, D. C., assignor to the Government of the United States, as represented by the Secretary of Commerce
Application May 10, 1937, Serial No. 141,737
10 Claims. (Cl. 250—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



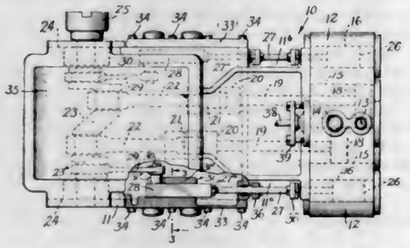
1. On an aircraft a radiant energy transmitter operating on a certain carrier frequency and having a first and second modulating oscillator, said first modulating oscillator operating at a fixed frequency to provide a warning signal, the frequency of said second modulating oscillator being controlled by an altitude indicating means over a band of frequencies not including said fixed frequency for giving altitude indicating signals, receiving means tuned to the same carrier frequency as that of said radiant energy transmitter, and having detecting means with output circuit for deriving the modulation frequencies, an amplifying means for said fixed frequency having input and output circuits and with input circuit connected to the output circuit of said detecting means and output circuit connected to a visual warning indicating means, a second amplifying means for said band of frequencies with input and output circuits, said second amplifying means for said altitude indicating signals having a continuously operated variable tuning means with attached pointer, the input of said second amplifying means being connected to the output of said detecting means and the output energizing an illuminating means for said pointer, electrical cyclic switching means associated with said radiant energy transmitter and its associated modulating oscillators and with said receiving and modulating amplifier means, so that said receiving and amplifying means operate without interference from said radiant energy transmitting means.

2,157,123
SHOE BOTTOM PRESSING MACHINE
Karl Engel, Swampscott, and Charles S. Kinney, Middleton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application October 22, 1937, Serial No. 170,432
17 Claims. (Cl. 12—51)



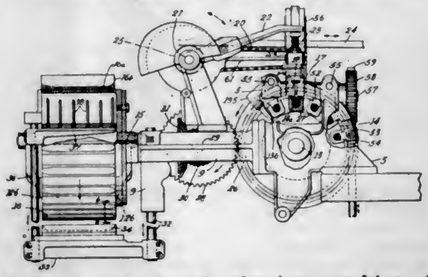
1. In a machine for pressing the bottoms of shoes, a device for applying pressure and heat to the bottom of the lasted forepart of a shoe before an outsole is applied to the shoe, said device comprising different heated shoe pressing members arranged to engage the lasted margin of the upper at the opposite sides of the shoe, means for pressing the shoe upon said device, said pressing device being movable rectilinearly in response to pressure of the shoe thereon, and means operative in response to such movement of the pressing device for imparting to said shoe-pressing members movements inwardly over the bottom of the shoe in wiping engagement with the margin of the upper.

2,157,124
ENGINE FRAME
William Thompson Hanna, Cincinnati, Ohio
Application June 29, 1935, Serial No. 29,075
4 Claims. (Cl. 308—3)



2. A guide for supporting the cross head of a valve mounted for reciprocation in a steam engine comprising, in combination, a flanged U-shaped member extending into the engine frame, said U-shaped member being positioned to slidably receive between its legs the valve cross head, means securing the flanges of said member to the engine frame, and means secured to said engine frame covering the open side of said member and having a bearing portion slidably engaging the valve cross head.

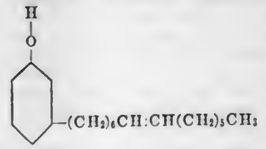
2,157,125
CIGAR BUNCH SHAPING MACHINE
John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application January 11, 1935, Serial No. 1,380
15 Claims. (Cl. 131—9)



4. In a cigar bunch shaping machine, the combination with means providing an endless series of cigar shaped pockets arranged in spaced relation on said means, each having a shaping wall at the head end of the bunch fully closed to a height greater than one-half the thickness of the bunch, of movable complementary shaping elements co-operating with respective pockets to compress the bunch and form a completely closed and fully shaped cigar head, mechanism for trimming the head end of said bunch prior to the compressing and forming operation, and means coacting with the pockets of said series to trim the tuck ends of the bunches therein after said operation.

2,157,126
COMPOSITION OF MATTER AND METHODS AND STEPS OF MAKING AND USING THE SAME
Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application October 25, 1935, Serial No. 46,744
10 Claims. (Cl. 260—46)

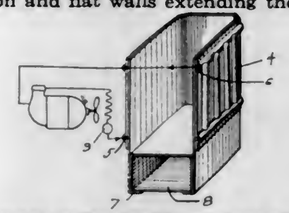
1. The process of producing resins which comprise condensing an aldehyde with a phenolic compound derived from and separated from other phenolic derivatives and constituents of cashew nut shell liquid and having the following structure



2,157,127
EVAPORATOR
Delos P. Heath, Detroit, Mich., assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware
Application January 23, 1931, Serial No. 510,688
14 Claims. (Cl. 62—126)

1. The process of making an evaporator from two sheets of metal, which consists in first stamping the sheets of metal to form embossed portions at predetermined points in each sheet, an embossed portion in one sheet consisting of a substantially half-cylindrical depression adapted to cooperate with the other sheet to form a header

portion, forming laterally, extending parallel embossed portions in one sheet, said embossed portions opening at one end into said header portion and terminating near the opposite edge of said sheet, superimposing said sheets so that the header portion and flat walls extending therefrom of

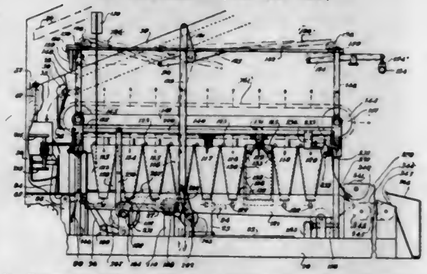


the one sheet register with portions of the other of said sheets, welding the sheets together around the edges and between the embossed portions for structural strength, and then bending the sheets thus secured together to form a plurality of walls of a sharp freezing chamber.

2,157,128

PHOTOGRAPHIC DEVELOPING MACHINE

Samuel Hershberg, Brooklyn, N. Y.
Application June 8, 1935, Serial No. 25,647
Renewed August 3, 1938
11 Claims. (Cl. 95—89)



1. In an automatic machine for finishing and developing sheets of sensitized material; a magazine adapted to stack said sheets horizontally on edge therewithin; the magazine having a friction plate adapted to engage the edges of said sheets and retain said sheets within the magazine; and discharging means associated with the magazine to discharge single sheets in the same order in which said sheets are deposited therein; and a transfer carriage adapted to advance said sheets through the process of development and having a movable endless band with sheet retaining means thereon for grasping said sheets; and mechanism for actuating said discharging means and said sheet retaining means whereby a sheet discharged from said magazine is received by said retaining means.

2,157,129

PROCESS OF PLATING BRIGHT ZINC

Viola Hoffman, Cleveland, Ohio
No Drawing. Application February 25, 1936, Serial No. 65,660
2 Claims. (Cl. 204—18)

1. A method of plating bright zinc upon hollow articles in a barrel comprising impressing a current in the neighborhood of 200-amperes at approximately 6 volts in a zinc cyanide solution containing alkali cyanide, alkali hydroxide and sodium thiosulphate, the sodium thiosulphate being present within the range of about one-sixteenth ($\frac{1}{16}$) ounce per gallon to about three-fourth ($\frac{3}{4}$) ounce per gallon to produce a bright plate.

2,157,130

BIMETALLIC ICE RACK

Martin Hokanson, Duluth, Minn., assignor to Eidco, Inc., Duluth, Minn., a corporation of Minnesota
Application July 6, 1937, Serial No. 152,053
6 Claims. (Cl. 62—46)

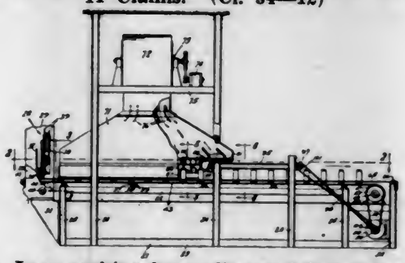


1. An ice rack for refrigerators comprising a sheet metal body portion having relatively long narrow openings therethrough, said openings having parallel upstanding flanges upon opposite sides thereof, a conduit member graduated in depth throughout its entire length installed within each opening and the upper edges of which are turned downwardly for cooperative engagement with said upstanding flanges of the body portion, and other openings intermediate of said first mentioned openings and said upstanding flanges the area of which other openings per unit of rack progressively increase from the front to the back of the rack.

2,157,131

CAN COOLING AND DRYING MACHINE

John M. Hothersall and George C. Reid, Brooklyn, N. Y., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 5, 1937, Serial No. 141,001
11 Claims. (Cl. 34—12)



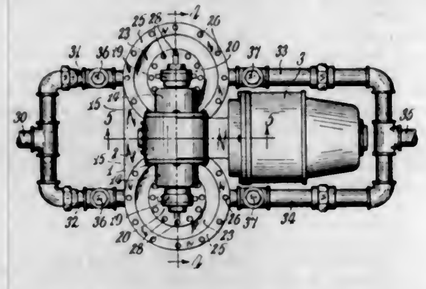
1. In a machine for cooling and drying freshly coated cans, the combination of devices for passing the cans along a predetermined path of travel while maintained in a vertical position, means for creating a current of air and directing the same toward said cans, and means adjacent the path of travel of the moving cans for shielding the upper ends thereof from said air current, said shielding means having an aperture for directing said air current against the sides of the cans for setting and hardening the coating on the can walls.

2,157,132

MINE PUMP

Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 22, 1936, Serial No. 117,177
8 Claims. (Cl. 103—150)

1. A pump comprising, in combination, a base on the bottom of which the pump is adapted to be supported and having a pump chamber formed therein, a motor supported by said base with its bottom disposed above the bottom of said base and having its power shaft horizontally disposed in horizontal planes above said pump chamber, a flexible diaphragm in said chamber for creating a suction in said chamber and for forcing the fluid from said chamber, driving connections between said motor power shaft and said diaphragm for flexing the latter, and inlet and discharge



pipe connections extending along the sides of the base in horizontal planes near the bottom of the motor and in horizontal planes in adjacency to and above the bottom of said base, said pipe connections communicating with said pump chamber and certain of said pipe connections extending along a side and transversely of one end of the motor.

2,157,133

PROCESS OF EXTRACTING PHYSIOLOGICALLY ACTIVE MATERIALS FROM ANIMAL TISSUES

Havard L. Keil, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application June 3, 1936, Serial No. 83,403
6 Claims. (Cl. 167—74)

1. The process of isolating intracellular physiologically active substances from animal tissue containing the same which comprises finely mincing the animal tissue to form a suspension of protein tissue cells in a liquid menstruum composed substantially of the natural tissue juice itself without the addition of substantial quantities of aqueous fluids thereto, changing the hydrogen ion concentration of the mixture of cells and juice to cause the cells to swell and rupture by absorption of the liquid menstruum composed substantially of the tissue juice and without the addition of substantial amounts of water so that the mass assumes a plastic and gelatinous state composed of swollen ruptured protein cell material and a liquid menstruum composed substantially of the tissue juice itself and active substances released from the confines of the cells, and then separating the protein cell material from said liquid menstruum.

2,157,134

LUBRICATING OILS

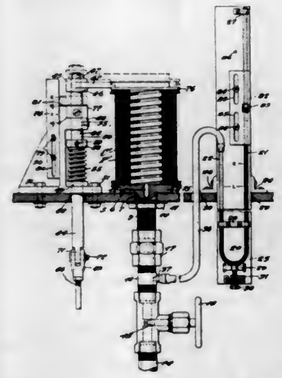
Bert H. Lincoln and Alfred Henriksen, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application June 4, 1932, Serial No. 615,462
9 Claims. (Cl. 87—9)

1. A lubricating oil comprising in combination a mineral oil and a small percentage of a halogenated fatty acid aromatic hydrocarbon halogeniferous condensation product.

2,157,135

APPARATUS FOR TESTING TEXTILE PACKAGES

Royal Little, Providence, and Freeman W. Fraim, Cranston, R. I., assignors to Franklin Rayon Corporation, Providence, R. I., a corporation of Rhode Island
Application September 7, 1935, Serial No. 39,586
2 Claims. (Cl. 73—51)



2. In an apparatus for testing the permeability of a mass of textile material wound on a hollow foraminous core in the form of a package, the combination of a support, a nozzle fixedly mounted on the support, said nozzle having a measuring orifice extending longitudinally throughout its length and an annular flange overlying the support and forming a seat surrounding the orifice, an imperforate closure plate overlying the annular flange on the nozzle in spaced relation thereto to adapt a package to be placed therebetween, means for mounting the imperforate closure plate for movement toward the annular flange on the nozzle to clamp the package therebetween and seal the upper and lower ends thereof, means for forcing a testing medium through the nozzle at a constant rate, and means connected to the nozzle for measuring the pressure of the testing medium caused by the resistance of the textile material in the package to the flow of the medium radially therethrough.

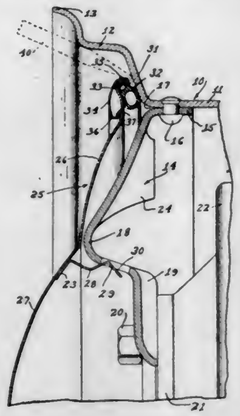
2,157,136

ORNAMENTAL WHEEL DISK

George Albert Lyon, Allenhurst, N. J.
Application December 22, 1934, Serial No. 758,810
3 Claims. (Cl. 301—37)

1. The combination with a wheel including a wheel mounting portion, an axial portion extending generally axially from said mounting portion, and a body portion extending from the outer end of said axial portion said axial portion having a plurality of circumferentially spaced apertures therein, of a circular disk of relatively thin sheet material for disposition over substantially the entire outer side of the wheel and held on the wheel solely by a snap-on engagement with said axial portion, said snap-on engagement being provided for by a plurality of spring elements projecting rearwardly from the rear face of the disk and

concealed by the disk, each of said elements having an end adapted to be cammed over an edge



of an aperture in said axial portion into a disk retaining engagement with such edge.

2,157,137

XYLOSEEN- 1,2 -TRIBENZOATES AND PROCESS FOR PRODUCING THE SAME

Randolph T. Major, Plainfield, N. J., and Elmer W. Cook, New York, N. Y., assignors to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 24, 1936, Serial No. 117,668

11 Claims. (Cl. 260—234)

1. Optical isomers of xyloseen-(1,2)-tribenzoate.

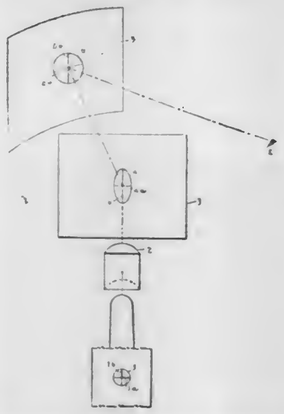
2,157,138

METHOD OF AND APPARATUS FOR PRODUCING STEREOSCOPIC PICTURES

Ciro Fidel Mendez, Mexico, D. F., Mexico

Application July 8, 1936, Serial No. 89,607

2 Claims. (Cl. 88—16.6)



1. The method of producing stereoscopic pictures which comprises photographing objects, laterally increasing the photographic field by vertically distorting the picture to a determined degree; projecting the vertically distorted real picture upon a plane screen; and reflecting the said picture from a concave, cylindrical surface, placed, adjusted and disposed to produce a horizontally distorted virtual image to compensate the distortion of the photographic field, which surface by laterally and uniformly deviating the reflected light rays produces the required degree of horizontal parallax uniformly throughout the whole picture, to provide for observers at different lateral selected places laterally and parallelly displaced images, so that the binocular vision of each observer registers two images which are at the precise and uniform degree of lateral and parallel displacement to be perceived as a single image in any part of which appear the right distances of depth which existed between the objects when originally photographed.

2,157,139

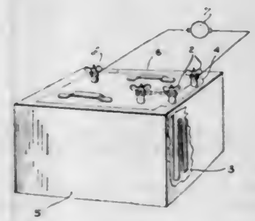
BATTERY CHARGING SYSTEM

Carlos B. Mirick, Washington, D. C.

Application May 22, 1936, Serial No. 81,155

4 Claims. (Cl. 171—314)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A constant potential system for charging storage batteries, comprising in combination a substantially constant source of charging voltage, a storage battery the resistance of which varies with changes in the ambient temperature and which is arranged to be charged by the aforesaid source of voltage, an auxiliary resistance having substantially the same temperature as those elements of the battery upon which its resistance depends and connected in circuit therewith, the product of the auxiliary resistance and its temperature coefficient of resistance being substantially equal and opposite in value to the product of the resistance of the battery and its temperature coefficient of resistance, whereby to compensate for any change in the battery resistance due to a change in the ambient temperature and thus insure the maintenance of a normal and predetermined charging rate.

2,157,140

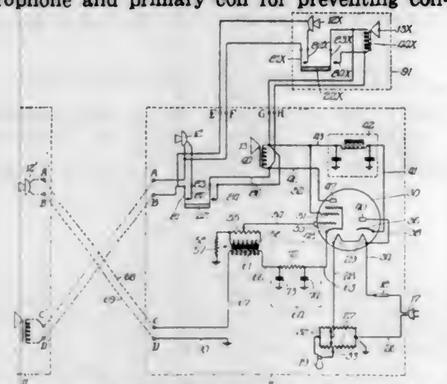
TRANSMITTING AND AMPLIFYING SYSTEM

Louis A. Molin and Theodore Le Baron, Chicago, Ill.

Application September 26, 1936, Serial No. 102,821

14 Claims. (Cl. 179—1)

1. A sound amplifying system including a vacuum tube including cathode, plate, and control grid, a loud speaker having its operating coil connected to said plate, a microphone and a primary coil of a transformer connected in series to said cathode, said control grid being connected to the secondary of said transformer, and filter means between said cathode and said microphone and primary coil for preventing con-



flict between portions of the circuit on opposite sides of said filter means.

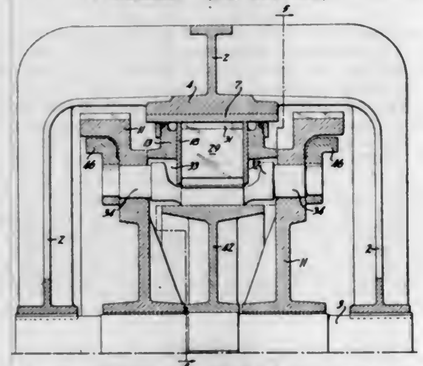
2,157,141

PUMP AND PUMPING SYSTEM

Howard Slater Murray, Los Angeles, Calif., assignor to Uniflow Pump Company, Las Vegas, Nev., a corporation of Nevada

Application February 12, 1936, Serial No. 63,600

7 Claims. (Cl. 103—83)



2. A pump comprising a housing having an annular portion forming the outer peripheral wall of a pumping chamber, a shaft fixed in the housing, a central cam fixed on the shaft, rotor sections journaled on the shaft adjacent each side of the cam, a channel-shaped rotor section carried by said side rotor sections and interposed between the cam and said peripheral wall portion, said channel-shaped rotor section forming the side and inner peripheral walls of the pumping chamber, and a retractable impeller pivotally mounted on the rotor and riding on said cam.

2,157,142

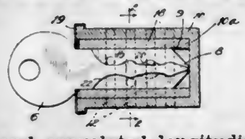
LOCK KEY

Phillip W. Olson, Grand Rapids, Mich., assignor to Automatic Instrument Company, a corporation of Michigan

Application July 9, 1934, Serial No. 734,252

8 Claims. (Cl. 70—406)

1. A key for a lock having a keyway with tumblers slidably mounted on each side of the keyway, the tumblers on one side of the keyway being operable in one direction and the tumblers on the opposite being operable in the other direction, the key having central webs forming the edges thereof for positioning the key in



the lock and convoluted longitudinally extending shoulders formed on each side of each of the webs, the diagonally opposite shoulders being of identical contours so that the key may be inserted either side up.

2,157,143

PROCESS FOR DEHYDRATION OF ACETIC ACID AND OTHER LOWER FATTY ACIDS

Donald F. Othmer, Brooklyn, N. Y., assignor to Tennessee Eastman Corporation, Kingsport, Tenn., a corporation of Virginia

No Drawing. Application November 30, 1934, Serial No. 755,361

15 Claims. (Cl. 260—541)

1. The process for obtaining substantially anhydrous acid from aqueous solutions containing at least one of the lower fatty acids by an extraction treatment with a high boiling point solvent of sufficiently higher boiling point than the acid so that after extraction the acid and any water may be removed from the solvent by distillation which comprises extracting the aqueous lower fatty acid solution with the high boiling point solvent, recovering the extract, subjecting this extract to a distillation treatment to recover a partially concentrated acid of 75 per cent to 95 per cent strength therefrom, subjecting this partially concentrated acid to a rectification treatment to obtain substantially anhydrous acid therefrom, this rectification treatment being conducted, at least in part, by heat supplied in a preceding step of the process.

2,157,144

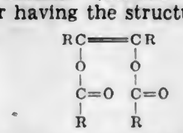
DIESTERS OF UNSATURATED GLYCOLS AND PROCESSES OF PREPARING THE SAME

Anderson W. Ralston and William M. Selby, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application November 22, 1937, Serial No. 175,978

8 Claims. (Cl. 260—410)

1. A diester having the structural formula



wherein the R groups are alkyl radicals having eleven to seventeen carbon atoms.

2,157,145

AIR CONDITIONING APPARATUS

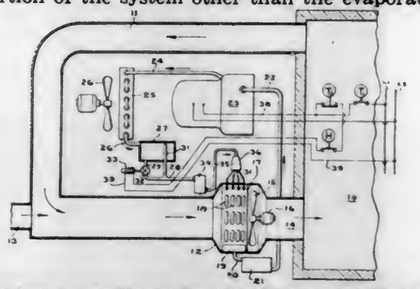
Raymond J. Ridge, Yeadon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 31, 1936, Serial No. 108,541

9 Claims. (Cl. 62—6)

2. In air conditioning apparatus, a refrigerating system comprising an evaporator for cooling

and dehumidifying a stream of air passing thereover, a compressor, a condenser, an expansion device, and means operable independently of said expansion device for selectively retaining in a portion of the system other than the evaporator



a definite quantity of liquid refrigerant such that a portion of the evaporator is deprived of liquid refrigerant, whereby the remaining portion operates at reduced temperature to effect a greater degree of dehumidification of the air passing thereover.

2,157,146
SCALE-RESISTING STEEL ALLOY

Gerhard Riedrich, Krefeld-Forstwald, Germany, assignor to Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany, a corporation of Germany

No Drawing. Application November 7, 1936, Serial No. 109,673. In Germany May 19, 1936

1 Claim. (Cl. 75—123)

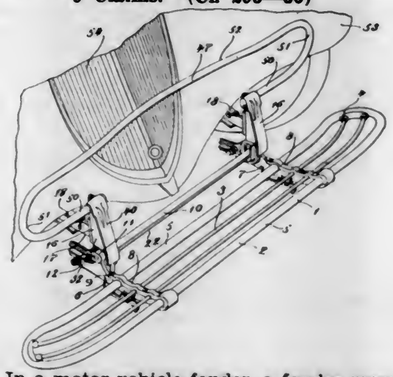
A steel to be exposed to high temperatures in performing metallurgical or other thermal operations, consisting of 0.01% to 0.30% carbon, 15.0% to 30.0% manganese, over 3.0% to 10.0% silicon, the remainder iron and customary traces of impurities, and characterized by elevated scale-resistency.

2,157,147
MOTOR VEHICLE FENDER

August A. Roth, Baltimore, Md.

Application May 24, 1935, Serial No. 23,227

9 Claims. (Cl. 293—36)



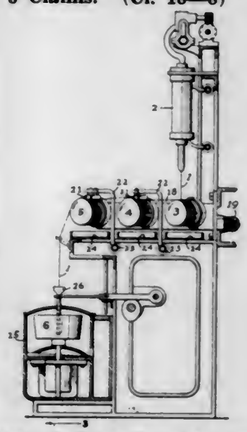
1. In a motor vehicle fender, a fender member adapted to serve as a pickup device and bumper, thrust means secured to said fender member, carrier means on the front of the vehicle having a cam slot with a substantially vertical rear guiding surface near the top, a follower member on said thrust means engaging the cam slot which has a forwardly extending follower seat at the top and the carrier means also having a rearwardly extending slot and the thrust means having a second follower sliding in said slot, and spring means tending to advance the latter follower which is located at the rear of the thrust means.

2,157,148
MANUFACTURE OF CUPRAMMONIUM RAYON

Fred J. Samerdyke, Rocky River, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application October 13, 1936, Serial No. 105,377

5 Claims. (Cl. 18—8)



1. In the manufacture of cuprammonium artificial silk thread, improved flow stretch spinning apparatus of the type conventionally employed comprising a spinning funnel in which the thread is formed, partially solidified and stretched; a self-threading, thread-advancing thread store device disposed below said spinning funnel to the receiving end of which the thread proceeds from said spinning funnel and toward the discharge end of which the thread is positively advanced in a large number of closely spaced, generally helical turns; means for applying a processing liquid to the thread while stored on said thread store device; and moist-thread collecting means to which the thread proceeds from the discharge end of said thread store device.

2,157,149
COPPER BASE ALLOY

Cyril Stanley Smith, Cheshire, and Earl W. Palmer, Waterbury, Conn., assignors to The American Brass Company, Waterbury, Conn., a corporation of Connecticut

No Drawing. Application October 11, 1937, Serial No. 168,422

4 Claims. (Cl. 75—160)

1. A copper base alloy characterized by being workable both hot and cold containing 0.1 to 5 per cent silicon, 0.1 to 5 per cent manganese, 0.005 to 0.25 per cent of an alkali metal from the group consisting of lithium and potassium; and balance copper.

2,157,150
RELIEF OF STRESS CRACKING IN ALUMINUM-MAGNESIUM ALLOYS

Francis P. Somers, Upper Darby, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application July 24, 1934, Serial No. 736,719

20 Claims. (Cl. 148—21.1)

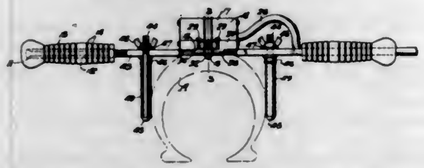
20. A process for improving the resistance to corrosion under stress of aluminum-magnesium alloys containing from 6 to about 14 per cent of magnesium comprising heating the alloy at a temperature above the temperature of solid solubility but below 450° C. and for a time sufficient to place at least a substantial portion of the magnesium in solid solution in the aluminum, and thereafter subjecting the alloy to a further thermal treatment at lower temperatures but in excess of 100° C. to produce a homogeneous precipitation throughout the grains of the dissolved magnesium in excess of the solid solubility at said lower temperature.

2,157,151
TIRE GROOVING TOOL

Edwin H. Stackhouse, West Philadelphia, Pa.

Substitute for applications Serial No. 605,542, April 15, 1932, and Serial No. 746,427, October 1, 1934. This application May 20, 1936, Serial No. 80,841

11 Claims. (Cl. 30—140)



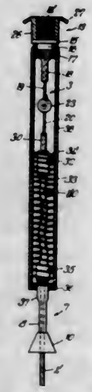
1. A tire grooving tool comprising an elongated bar having its ends provided with handles, a substantially U-shaped cutting blade associated with the intermediate portion of the bar, and an electric heater mounted on the bar in direct contact with the cutting blade, said blade extending through aligned apertures in said bar and heater.

2,157,152
ELECTRICAL FUSE

Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Application October 18, 1937, Serial No. 169,611

18 Claims. (Cl. 200—135)



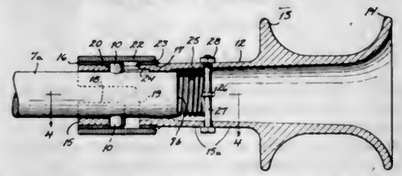
1. In an electric fuse, a fusible current carrying element of predetermined rating comprising a pair of wires of relatively high melting point having portions coupled mechanically by hooked connection, and a body of metal fusible at a relatively low temperature and holding said hooked connection against disconnection by bending a hooked part of the wire, said wires being fusible by large increase of current, and said body of metal being fused by current flow insufficient to melt said wires when continued over a period of time.

2,157,153
NIGGERHEAD

Herman J. Troche, Cleveland, Ohio, assignor to American Coach and Body Company, Cleveland, Ohio, a corporation of Ohio

Application August 14, 1936, Serial No. 96,122

6 Claims. (Cl. 254—150)



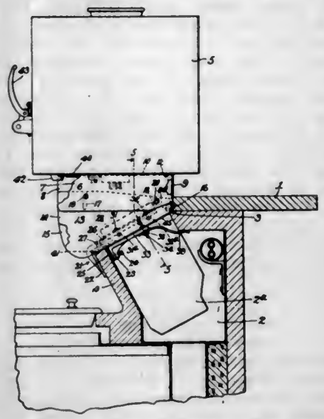
1. A niggerhead having a hollow body adapted to fit over a driving shaft, said body having a slot for engaging a lateral projection on such shaft, which projection is circular in cross-section, the slot having a circumferential portion terminating in a projection receiving recess extending from said portion lengthwise of the body for a distance greater than half the diameter of the projection and arranged in close fitting contact with opposite sides of the projection so as to serve as a two-way, positive driving spline connection between the body and shaft.

2,157,154
SODA FOUNTAIN

Frederick H. Tweed, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application August 19, 1935, Serial No. 36,824

11 Claims. (Cl. 225—28)

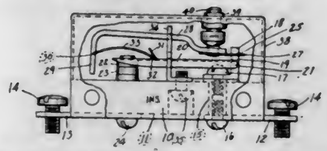


1. A soda fountain comprising a counter, a sirup jar supporting device back of the counter having two members between which the sirup jar is supported, said members having a space between them, and a drink dispenser supported on the sirup jar supporting device above said space so as to leave the counter at the front thereof free for general service.

2,157,155
TREATING ALUMINUM SURFACES
Harold K. Work, Oakmont, and Charles J. Slunder, New Kensington, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 3, 1936, Serial No. 88,828
4 Claims. (Cl. 91—68)

1. As a new article of manufacture, an aluminum object having a self-lubricating surface, consisting of an aluminum base and an adherent lubricating coating comprising finely divided graphite secured to said base by an artificially-produced aluminum oxide coating formed on said base and an alkali silicate.

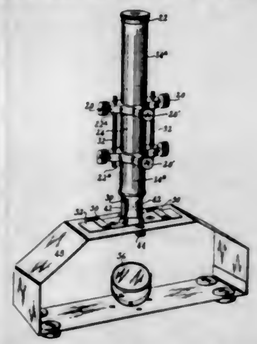
2,157,156
ELECTRICAL SWITCH
Elmer T. Abendroth, Tipton, Ind., assignor to The Oakes Manufacturing Company, Tipton, Ind., a corporation
Application July 8, 1938, Serial No. 218,071
4 Claims. (Cl. 200—67)



1. In a snap switch, a pair of rigid members of unequal length pivotally mounted at adjacent points and extending generally in the same direction from their pivot points, the longer of said members having the end thereof remote from its pivot point curved about and spaced from the corresponding end of the shorter of said members, a compression spring interposed between the curved portion of the longer member and a portion of the shorter member and exerting opposing forces thereon directed along a line passing through the region of said pivot points, a contact point carried by the shorter member, a mating stationary contact point, and stops limiting the pivotal movement of the longer member in both directions and limiting the movement of the shorter member away from said mating contact point, the points of application of the force of said spring being so located that the line of force thereof remains on one side of the pivot of the longer member irrespective of the position of said member between its stops but passes over the pivot point of the shorter member when the longer member is moved from one of its stops to the other, whereby said spring constantly urges the longer member in one direction but alternately urges the shorter member toward and away from the mating contact point as the longer member is moved.

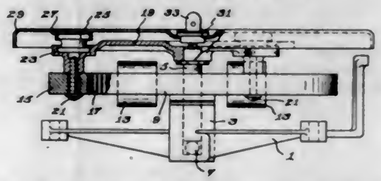
2,157,157
OPTICAL APPARATUS
Edward Norton Anketell, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application January 16, 1936, Serial No. 59,445
1 Claim. (Cl. 35—19)

A support permitting various adjustments of lens tubes and the like for purposes of demonstration, comprising a base having an upwardly spaced rod-holding portion, a pair of mounting rods detachably secured to said base and projecting upwardly therefrom in parallel relation, a pair of coupling members disposed in upwardly spaced relation to each other and held in place on and by said mounting rods, each of said members having a lens tube gripping opening and provided with laterally projecting perforated ears at the periphery spaced apart at 90°, the ears of one member being alined with those of the other, said mounting rods passing through alined ears and adjustably secured therein by set screws, and



another pair of shorter mounting rods located and held in other opposite ears of the coupling members by set screws and adjustably interconnecting said members independently of said first named rods, said coupling members and said mounting rods in conjunction serving to support a lens tube extending through the openings of said members.

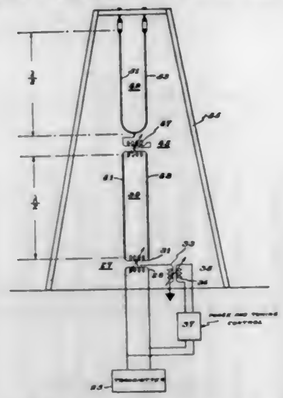
2,157,158
SOUND REPRODUCING APPARATUS
Gregory W. Blessing, Moorestown, and Emile C. Guedon, Audubon, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 5, 1937, Serial No. 172,886
9 Claims. (Cl. 274—9)



1. In a phonograph, the combination of a prime mover, a record supporting turntable, resilient means connecting said turntable with said prime mover, a record centering spindle for said turntable, vibration insulating means between said turntable and said spindle, and vibration insulating means surrounding said spindle, said last named means being adapted to threadedly receive a record to be supported on said turntable.

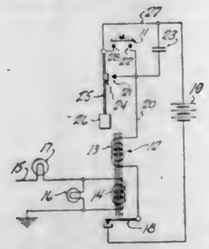
2,157,159
ANTENNA SYSTEM
George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 24, 1937, Serial No. 132,679
5 Claims. (Cl. 250—33)

1. An antenna including in combination a first radiator, a second radiator comprising a two conductor transmission line, means including out of phase currents in the conductors of said second radiator for impressing in phase currents of the same frequency on said first and second radiators, and means for varying the ratio of the currents



impressed on said radiators to thereby vary the angle of radiation from said radiators.

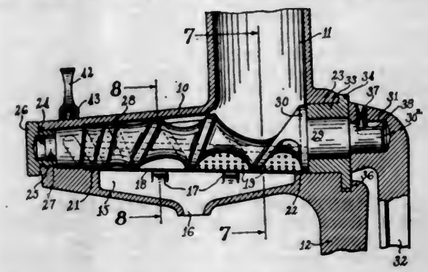
2,157,160
ELECTRIC FENCE CONTROLLER
Foster Buck, Fargo, N. Dak.
Application March 26, 1936, Serial No. 70,990
2 Claims. (Cl. 175—265)



1. Means for energizing an electric fence comprising: a transformer having primary and secondary windings; means for connecting the terminals of the secondary winding with a fence to be energized and the ground; a primary circuit connected with the terminals of the primary winding; a source of E. M. F. connected in said primary circuit; a vibrator for intermittently opening and closing the primary circuit with great rapidity so as to induce an alternating current in the secondary circuit; a pendulum-controlled switch for periodically and slowly opening and closing said primary circuit; and a single electromagnetic means energized from the primary circuit for actuating the vibrator and for keeping the pendulum in motion.

2,157,161
JUICE-EXPRESSING DEVICE
Herman B. Carlson, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut
Application November 27, 1936, Serial No. 112,945
2 Claims. (Cl. 100—48)

1. A juice expressing device having a casing provided with an internal generally horizontally disposed chamber, and a hopper opening downwardly into the chamber, the casing having generally circular bearing portions at its ends, and the lower trough-like portion communicating with the chamber between said bearing portions, a fluted screw rotatably mounted at its ends in the bearing portions of the chamber, a screen supported in the chamber below and in close proximity to the screw, a cap closing the outlet end of



the chamber and having means to receive the end of the screw to provide a bearing thereover, said screw having a solid portion adjacent said cap closely fitting the bearing portion of the chamber, and said chamber having a side outlet opening adjacent the end of the screw with which the fluted portion of the screw communicates.

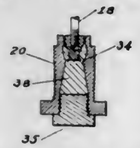
2,157,162
PANEL
Thomas J. Colleran, Flushing, N. Y., assignor to Hunter Sash Company, Inc., Flushing, N. Y., a corporation of New York
Application March 17, 1938, Serial No. 196,323
4 Claims. (Cl. 189—64)



1. A structure adapted for use as an insulating panel, comprising a frame having rigid walls defining an elongated channel having a longitudinal axis, said walls terminating in edges substantially parallel to the axis of the channel, a rigid partition in said channel extending longitudinally thereof and dividing it into smaller elongated channels having longitudinal axes substantially parallel to the above mentioned axis; brackets extending from said partition and toward said walls respectively; sheets of transparent material enclosing a column of gas therebetween and having edges substantially coextensive with and parallel to the axis of said channel, the edges of said sheets being mounted on each of said brackets and between said partition and channel wall adjacent thereto respectively and in spaced relation

to said walls; resilient and demountable means sealing the spaces between the edges of said channel walls and sheets and confining said column of gas between said sheets out of contact with the atmosphere, said confined gas containing a predetermined proportion of moisture; a plurality of ports in said partition providing free gaseous communication between said smaller channels and said confined column of gas; and a dehydrating agent, enclosed in an elongated foraminous envelope having a long and a short axis, being positioned in each of said smaller channels, the long axes of said envelopes being substantially parallel to the axes of said channels.

2,157,163
SAFETY DEVICE FOR BOILERS
Frank L. Cormier, East Braintree, and Harold L. Larson, East Weymouth, Mass.
Application August 18, 1936, Serial No. 96,562
4 Claims. (Cl. 122—504.3)



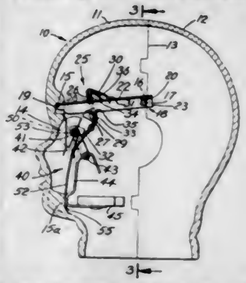
4. In a safety device for a boiler having an outer wall and a crown sheet, a plug adapted to be threaded into the crown sheet and be removable from the furnace side thereof, the plug having an open bore in its forward end, an anchor secured in the bore by soft metal, an operating rod adapted to be placed in longitudinal alignment with the anchor within the boiler and project outwardly of the boiler through said outer wall, and means providing a disengageable threaded connection between the inner end of the rod and the anchor whereby permitting said removal of the plug and the replacement thereof independently of the rod, the outer end of the rod being adapted to cooperate with controlling means outside the boiler.

2,157,164
MANUFACTURE OF ESTERS OF PHOSPHORIC ACID
Arthur John Daly and William Geoffrey Lowe, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 15, 1937, Serial No. 137,042. In Great Britain May 22, 1936
8 Claims. (Cl. 260—461)

1. Process for the manufacture of halogenated alkyl phosphates, which comprises causing a phosphorus oxyhalide to react with an olefine oxide in the presence of aluminum chloride as catalyst.

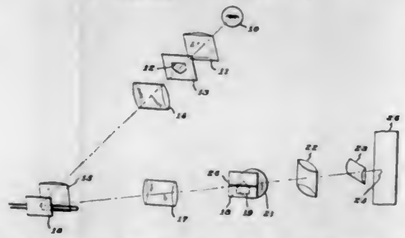
2,157,165
DOLL CONSTRUCTION
Matteo De Cesare, Newark, N. J., and David Cohn, Brooklyn, N. Y., assignors to Eyedoll Corporation, Jersey City, N. J., a corporation of New Jersey
Application March 20, 1935, Serial No. 11,921
13 Claims. (Cl. 46—169)

1. In doll construction, a doll's head having eye sockets, an axle having eyes thereon received within said sockets, a weight fixed to said axle, a spring having a portion thereof freely encircling said axle and another portion thereof freely contacting a portion of the doll's head, and means for pressing an intermediate portion of



said spring for resiliently pressing the eyes into the sockets, said axle being unsupported.

2,157,166
OPTICAL SYSTEM
Glenn L. Dimmick, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1936, Serial No. 118,429
3 Claims. (Cl. 88—24)

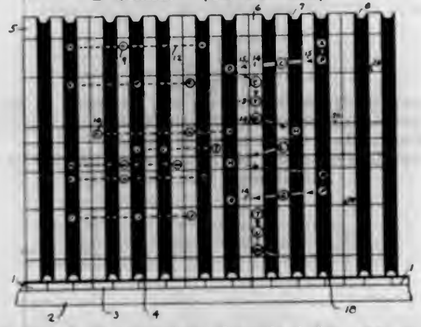


1. An optical system of the class described including in sequence an exciter lamp, a cylindrical lens, a beam defining aperture plate, second and third cylindrical lenses, a galvanometer, a fourth cylindrical lens, a slit plate having a slit therein, a spherical lens and fifth and sixth cylindrical lenses, all arranged along a V-shaped path, the galvanometer being located at the apex of the V, the first and third of said cylindrical lenses having their axes perpendicular to the plane of the V and having the exciter lamp and galvanometer mirror located at their conjugate foci, the second of said cylindrical lenses having its axis in the plane of the V and having the exciter lamp and galvanometer at its conjugate foci in said plane, the fourth of said cylindrical lenses having its axis in the plane of the V and having the said aperture plate and slit plate located at the conjugate foci of the second and fourth lenses perpendicular to said plane and at the conjugate foci of the third of said lenses in said plane, and the fifth and sixth of said lenses having their axes respectively perpendicular to and parallel to said plane and having said slit plate and the final image plane of the optical system at their conjugate foci.

2,157,167
ARTICLES OF CELLULOSE ESTERS
Camille Dreyfus, New York, N. Y.
No Drawing. Application February 17, 1937, Serial No. 126,255
4 Claims. (Cl. 18—57)

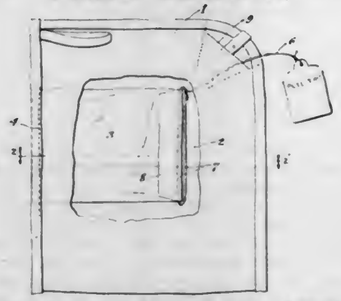
1. An article of manufacture comprising a cellulose acetate having an acetyl value between 60 and 64%, determined as acetic acid, said cellulose acetate being formed by reacetylating a cellulose acetate of lower acetyl value, and more than 35%, based on the weight of the cellulose acetate present, of plasticizer.

2,157,168
VISUAL SONG INTERPRETER
Philip Fine, Baltimore, Md.
Application November 20, 1937, Serial No. 175,580
1 Claim. (Cl. 84—481)



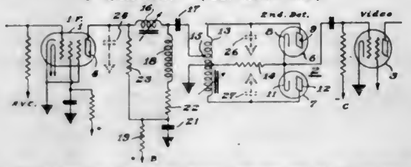
A chart of the class described for use on a piano to designate the keys to be struck in playing a composition, comprising a chart with vertical lines forming spaces to correspond with the keys of the piano, characters, lines marked horizontally across the chart forming various size spacings, said spacings having the characters therein to be played in the respective spacings, broken lines joining the characters intended to be played by one hand and continuous lines joining others of the characters intended to be played by the other hand, and arrows on the chart for indicating the sequence in which the characters are to be played.

2,157,169
HEAT BAG
William H. Foster, Delmar, N. Y.; Ruth Foster administratrix of said William H. Foster, deceased
Application September 27, 1937, Serial No. 166,031
3 Claims. (Cl. 126—204)



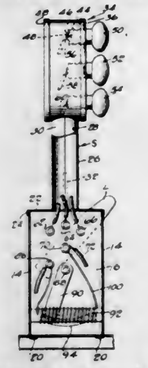
1. A heat bag of the character described including an envelope of canvas or the like having therein a compartment containing one ingredient of a heat productive chemical mixture in granular form, and a bag of paper or the like contained within said envelope, said bag containing another ingredient of such a heat productive mixture in granular form, and said bag being constructed and arranged to be readily frangible by the user to enable said ingredients to be mixed within said envelope.

2,157,170
TELEVISION RECEIVER
Gustave L. Grundmann, Westmont, and Horace Clifford Allen, Marlton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 29, 1938, Serial No. 187,620
7 Claims. (Cl. 250—20)



1. In a superheterodyne receiver, an intermediate frequency amplifier having a plate electrode, a push-pull second detector, said detector having an input circuit which includes an inductance coil, the mid-point of said coil being connected to ground for signal frequencies, a connection from said plate electrode to a point on said coil other than said mid-point, said connection including an inductance coil and a blocking condenser in series, and means for applying an operating voltage to said plate electrode, the circuit including said last mentioned coil, a portion of said first-mentioned coil and the output capacity of said amplifier being tuned to a certain frequency, and the circuit including said first-mentioned coil and the input capacity of said detector being tuned at least approximately to said certain frequency, the coupling between said tuned circuits which is provided by said coil portion being such as to produce a substantially flat topped selectivity curve.

2,157,171
BLOCK SIGNAL FOR TOY RAILROADS
Ralph A. Hathaway, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application June 4, 1936, Serial No. 83,511
14 Claims. (Cl. 246—22)



1. A block signal system for electrically operated toy railroads, comprising a track having an insulated third rail, a section of said third rail being insulated from the remainder of the third rail and forming a control zone, a block signal alongside the track, signal means thereon indicating Clear, Caution, and Danger, respectively, electric wiring connecting the control zone to the signal, a resistor in said signal permanently connected in series between the third rail of the insulated control zone and source of energy,

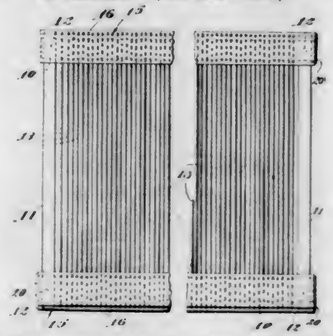
a shiftable selector, switch means moved by said selector for bypassing the resistor when Clear is indicated, and for bypassing a part only of said resistor when Caution is indicated, and an adjustable control member for varying the amount of the resistor that is by-passed when Caution is indicated.

2,157,172
APPARATUS FOR PLAYING A GAME
Rex Boyden Hays, Hove, England, assignor to Tee Up Limited, London, England
Application June 20, 1938, Serial No. 214,659
In Great Britain May 10, 1937
2 Claims. (Cl. 273—87)



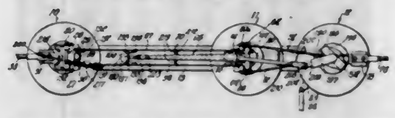
1. In a board game simulating golf in which there is combined with a board or card having a printed plan of part of a golf course a graduated arm adapted to guide a ball simulating piece over the playing surface, the provision with said arm of a slide slidable along the arm and apertured to receive freely the ball simulating member, an end member to which one end of said arm is angularly adjustably connected, and means with said end member whereby the arm can be tilted upwards by pressure on the end member to free the slide from the ball.

2,157,173
LOOM REED
Samuel S. Holland, Methuen, Mass.
Application April 12, 1938, Serial No. 201,585
4 Claims. (Cl. 139—192)



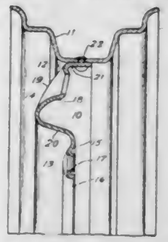
1. An improved reed for looms comprising in combination, a plurality of dents, end bars, half-round strips attached to said bars, the said dents frictionally held between the said strips, a continuous wire anchored in said end bars and continuously and progressively wound around said strips and between said dents and separating said dents, an outer guard casing having a channel provided on one side, said channel being adapted to receive and limit the end motion of said dents, caps located over the ends of said strips and under said casing, said casing, end portion of said strips and caps being soldered together, said casing having an open side engaged over the narrow sides of said dents.

2,157,174
SWITCH
Peder B. Hoye, Maywood, Ill., assignor to Electrical Engineers Equipment Company, Melrose Park, Ill., a corporation of Illinois
Application April 11, 1938, Serial No. 201,285
24 Claims. (Cl. 200—48)



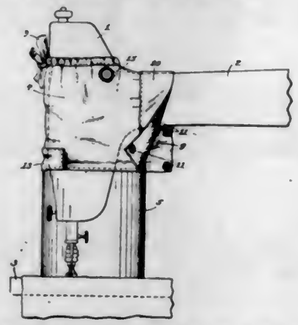
8. In a switch, the combination of a plurality of blades extending alongside one another in generally parallel relationship, switch contacts arranged to receive the ends of said blades, and a rigid load sustaining member disposed between said blades and to which said blades are connected for movement relative to said load sustaining member and to each other.

2,157,175
STAMPED METAL WHEEL
J Harold Hunt, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application August 16, 1934, Serial No. 740,064
4 Claims. (Cl. 301—9)



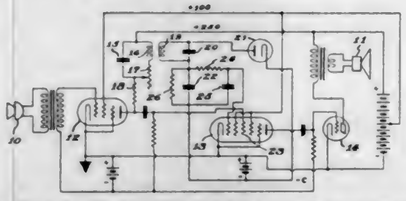
1. A one piece sheet metal wheel body adapted to carry the entire wheel load between the rim and the hub, said wheel body consisting of a single stamping including a radially extending bolting on flange, a generally axially extending annular portion projecting from the periphery of the bolting on flange, a disk portion projecting radially outwardly from said annular portion and having a continuous peripheral flange, said disk portion having an annular series of axially extending depressions with a hole formed in the axially innermost portion of each depression, each of said depressions being of gradually increasing axial depth inwardly throughout the radial extent whereby radially extending ribs are formed between the holes which have an axial extent at the radially inner end at least twice as great as the axial extent at their radially outer end.

2,157,176
DUST TRAP FOR SEWING AND OTHER MACHINES
Helen E. Young, Darien, Conn.
Application October 9, 1937, Serial No. 168,178
4 Claims. (Cl. 112—261)



3. A trap device for confining dust, lint and other particles freed by machines operating upon fabrics and other materials, comprising a casing open at the bottom and shaped to encircle the operating zone of the machine, the casing being formed of transparent material to clearly expose to view the machine operation upon the material, and a flexible support for the casing serving as a top closure for the same, that portion of the support forming the aforesaid closure being collapsible to permit the casing to be telescoped upward at the will of the machine operator to clear and give access to the operating zone without removing the device from the machine.

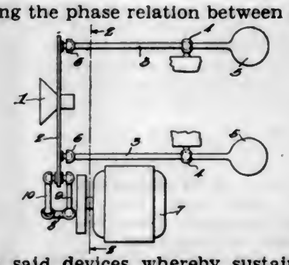
2,157,177
PUBLIC ADDRESS STABILIZING SYSTEM
Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 28, 1936, Serial No. 113,121
9 Claims. (Cl. 179—171)



1. In a system including an amplifier connected between acoustically coupled sound pick-up and reproducing devices, the combination of means for causing maximum amplification at a predetermined frequency, means selectively responsive to current of said frequency, and means responsive to said current for controlling the gain of said amplifier.

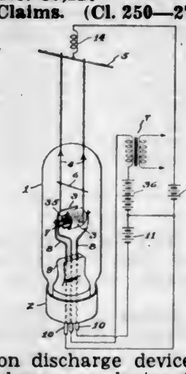
2,157,178
PUBLIC ADDRESS STABILIZING SYSTEM
Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1936, Serial No. 118,441
14 Claims. (Cl. 179—1)

1. The combination of acoustically coupled sound reproducing and pickup devices, an amplifier connected between said devices, and means for varying the phase relation between the sound



waves at said devices whereby sustained feedback between said devices is prevented.

2,157,179
MICROWAVE OSCILLATOR AND DETECTOR
Ernest G. Linder, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Original application July 2, 1934, Serial No. 733,381. Divided and this application May 16, 1936, Serial No. 80,110
15 Claims. (Cl. 250—27.5)



1. An electron discharge device including an evacuated envelope, a conductor disposed within said envelope and terminating in split anode electrodes, said conductor having a cross sectional area of the order of the area of one of said anode surfaces, and a cathode disposed substantially parallel to said anode surfaces.

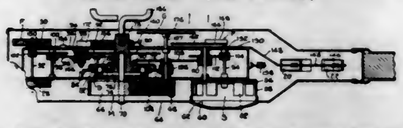
2,157,180
ZINC GROUND ROD
Thomas J. Little, Riverdale, N. Y., assignor to Anaconda Wire & Cable Company, New York, N. Y., a corporation of Delaware
Application October 28, 1937, Serial No. 171,460
3 Claims. (Cl. 204—1)



1. A protective and grounding apparatus for

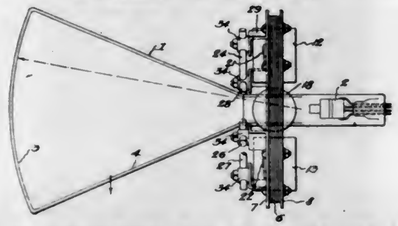
galvanized electric structures which comprises a ground rod of finely divided zinc, a hollow pierced reinforcing element having a surface of metallic zinc enclosing and holding said divided zinc, and a zinc conductor extending from within said finely divided zinc to said galvanized structure.

2,157,181
TOY WEAPON
Raymond Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application October 29, 1936, Serial No. 108,148
25 Claims. (Cl. 46—10)



1. A toy weapon comprising a simulated double barrel gun, a pair of triggers therefor, a first mechanism therein for producing a weapon or alarm simulation, a second mechanism therein for producing a different weapon or alarm simulation, a single motor for driving either of said mechanisms, said pair of triggers being so related to said motor and said mechanisms that one of said mechanisms may be operated on pulling one of said triggers, and the other of said mechanisms may be operated on pulling the other of said triggers.

2,157,182
CATHODE RAY DEFLECTING DEVICE
Ioury G. Maloff, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1935, Serial No. 56,846
3 Claims. (Cl. 250—157)



1. In combination with a cathode ray tube having an electron gun, means including deflecting coils for producing a magnetic deflecting field, and additional means for making said field substantially uniform from point to point in a plane at right angles to the axis of said gun, said additional means comprising a plurality of permanent magnets adjacent said deflecting coils and developing a magnetic field correcting non-uniformity in said deflecting field.

2,157,183
METHOD OF MAKING A PATCH
Thomas W. Mullen, Indianapolis, Ind., assignor to Bowes Seal Fast Corporation, Indianapolis, Ind., a corporation of Indiana
Application September 1, 1937, Serial No. 161,914
9 Claims. (Cl. 154—2)

6. In a method of forming a patch, those steps which consist of disposing a mass of rubber at the central zone only of a plurality of cords, and of applying pressure normally to the rubber and cords to cause the rubber to flow laterally from said zone, which lateral flow sets up a frictional



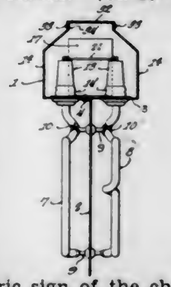
drag along the individual cords tending to stretch them outwardly from their central portions.

2,157,184
SAFETY HEEL
John Neumann, Baltimore, Md.
Application October 25, 1937, Serial No. 170,940
1 Claim. (Cl. 36—35)



In combination with a conventional type of shoe, a heel of resilient material, the breast portion of the heel having both of the corner portions chamfered off symmetrically from a point on the corner lines adjacent the upper extremity thereof and diverging backwardly and downwardly at an angle of approximately sixty degrees to the bottom plane of the heel and at an angle of approximately forty-five degrees with the side and front planes of the heels.

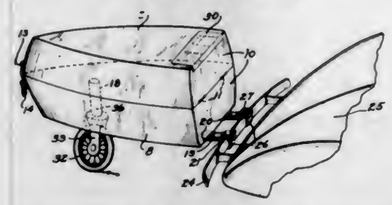
2,157,185
ELECTRIC SIGN
Elmer R. Nickel, Milwaukee, Wis.
Application June 6, 1938, Serial No. 212,062
2 Claims. (Cl. 40—130)



1. An electric sign of the character described comprising, an elongated housing having top, bottom, side and end walls providing a weather proof enclosure for the transformer, wiring and other electrical equipment disposed within the housing for the sign, a panel of a single section secured to and depending from the bottom wall intermediate the side walls, luminescent gas filled discharge tubes on opposite sides of the panel, said tubes being attached to and supported by the panel below the housing and fashioned to provide the message to be displayed by the sign, said tubes having their electrode ends extending into the housing through openings in the portions of the bottom wall on opposite sides of the panel, said top wall having an opening therein extending along the housing for substantially the full length

thereof and of a width to pass the transformer, wiring and other electrical equipment for the sign, a cover plate of substantially the same length as the housing and securable to the top wall over its opening for closing the same, and supporting brackets for the sign at the end walls of the housing to avoid interference with removing or applying the cover plate to the housing.

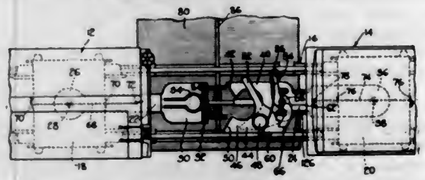
2,157,186
CONVERTIBLE TRAILER-BOAT
Joseph Pinter, Sr., and Joseph Pinter, Jr., Milwaukee, Wis.
Application January 17, 1938, Serial No. 185,299
5 Claims. (Cl. 9—2)



1. A convertible boat and trailer assemblage, comprising, a pair of hingedly connected sections, one of said sections having a carrier wheel detachably vertically journaled therein, and a pivoted latch secured to one of said sections and being cooperable with the other to retain said sections in boat formation, said latch also serving as a direct draw bar when the assemblage is converted into a trailer.

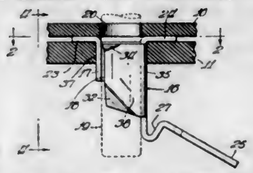
2. A convertible assemblage comprising, two sections adapted to be disposed in longitudinal alinement to form a boat and to be positioned one above the other to provide a trailer compartment, the lower of said compartment sections having therein a well opening through the boat bottom, and a trailer supporting wheel unit comprising a journal member detachably fitted within said well, and a caster wheel journaled within said member and being removable therewith when the assemblage is converted into a boat, said wheel being freely and completely revolvable about the journal axis of said member to accommodate both forward and reverse advancement of the trailer compartment.

2,157,187
REMOTELY CONTROLLABLE AUTOMATIC TRAIN COUPLING SYSTEM
Willis E. Rexford, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application May 26, 1936, Serial No. 81,834
9 Claims. (Cl. 213—212)



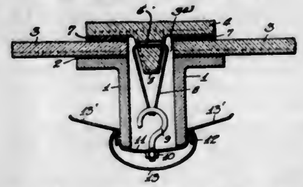
1. A toy automatic uncoupling system for toy trains, comprising cars having couplers, one of said couplers having separable jaws adapted to close about and to interlock with the other coupler, resilient means normally tending to open the jaws, a pivoted latch to hold the jaws in closed position, an elevatable track trip, a feeler on said coupler adapted to engage said track trip when elevated, said feeler being movable forwardly or rearwardly by said track trip, and means interconnecting said feeler and said pivoted latch, said means bearing against one side of said latch at one side of the latch pivot and bearing against the opposite side of said latch at the opposite side of the latch pivot, whereby the latch is moved from locked to unlocked position when the feeler is moved either forwardly or reversely by the track trip.

2,157,188
PRONGED-DEVICE CONNECTOR
Walter W. Robinson, Chicago, Ill.
Application January 2, 1937, Serial No. 118,717
1 Claim. (Cl. 173—328)



In a device of the class described embodying a resilient sheet metal initially flat body having its free ends bent laterally toward each other to form a four-sided socket of somewhat truncated triangular shape in cross-section and adapted to be carried by an insulating laminated mounting. the combination comprising the said structure in which one of the free ends is bent to form two sides of the socket and the other free end forms one side only thereof, holding lug portions at the upper end of said socket bent at right angles to the body, one on the body between the said free ends and the other on the free end which forms two sides of the socket, the said lugs being diametrically oppositely arranged and being adapted to be held between laminations of the mounting, and the lower corner of said free end which forms one side only of the socket being bent slightly inwardly to form an enhanced frictional contact with a prong or the like received in said socket whereby said socket is given a twisting motion when receiving said prong, the free end which forms one side only of the socket being free to be moved somewhat axially with the prong while the other side remains relatively immovable axially by reason of said holding lugs.

2,157,189
ROOFING
Josef Schlösinger, Neusattl, near Elbogen, Czechoslovakia, assignor to Aktiengesellschaft fur Glass industrie vorm. Friedr. Siemens, Neusattl, near Elbogen, Czechoslovakia
Application October 11, 1937, Serial No. 168,325
5 Claims. (Cl. 108—10)



1. In a roof comprising tiles of glass or the like, a pair of spaced supporting members for said tiles, a ledge overlapping the edges of adjoining tiles and covering the interstice between

them, said ledge being formed with a boss projecting downwardly through the interstice between said adjoining tiles, flexible means embracing said supporting members and tension means between said boss and said flexible means for anchoring said ledge in position.

2,157,190

ARTIFICIAL MATERIAL AND METHOD OF MAKING SAME

George W. Seymour, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application November 23, 1934, Serial No. 754,472
2 Claims. (Cl. 260—13)

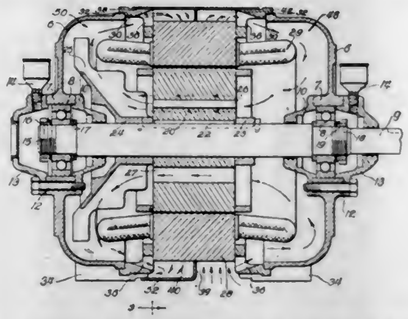
1. A composition of matter comprising cellulose acetate and from 2 to 10%, based on the weight of the cellulose acetate present, of the reaction product of 100 parts by weight of oxidized castor oil and 30 parts by weight of paraformaldehyde.

2,157,191

METHOD OF AND MEANS FOR COOLING MOTORS

John B. Sinnett, Howell, Mich., assignor to Howell Electric Motors Company, Howell, Mich., a corporation of Michigan

Application July 31, 1936, Serial No. 93,535
14 Claims. (Cl. 172—36)



2. A motor having enclosed end plates, a stator frame disposed between said end plates, an annular enclosed duct about said stator frame, a partition dividing said duct into two passageways, means in said stator frame defining openings providing lateral communication between said passageways and the interior of said end plates, a rotor within said frame, said rotor having spaced axially extending openings therein, and means on said rotor for drawing air into one of said passageways, through said openings on one side of said stator frame and said end plate and said rotor openings to the openings on the opposite side of said stator frame and expelling said air through other of said stator openings into the other of said passageways.

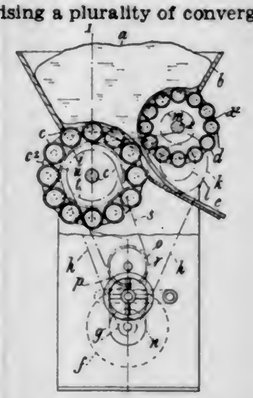
2,157,192

SHEETING OF PLASTIC SUBSTANCES SUCH AS SUGAR CONFECTIONERY

Hermann Thürlings, Viersen, Germany

Application June 16, 1937, Serial No. 148,610
In Germany June 18, 1936
6 Claims. (Cl. 107—12)

1. A machine for rolling or sheeting a mass of plastic sticky material such as sugar confectionery comprising a plurality of convergently travel-



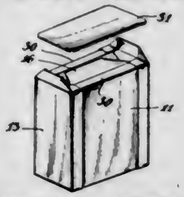
ing rolling or sheeting surfaces consisting of a series of individual rotatable elements or rollers.

2,157,193

PACKAGING

George R. Webber, Palisades, and Thomas Russel Baxter, Plainfield, N. J., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

Application April 13, 1935, Serial No. 16,162
5 Claims. (Cl. 206—46)



3. A package of a relatively dry, non-tacky, mobile mass of divided substance, characterized by the visual and tactual aspects of a metallic container, said package having rigid relatively unbendable end-walls anchored to each other against mutual separation by flexible front, back and edge walls tensionally stressed from end-wall to end-wall, metallic foil covering some of said flexible walls, and flexible sheet material overlying the remaining flexible walls and concealing the edges of said foil, said package having its confined contents solidly compacted under pressure into a substantially unyielding block or mass in compressive engagement between and against the end-walls occupying all of the available space therein so that they are substantially non-shiftable and fully engage all of the package walls and tension the front, back and edge walls between the end-walls.

2,157,194

PACKAGING

George R. Webber, Palisades, Paul W. Fleischer, Weehawken, and George W. von Hofe, Bound Brook, N. J., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

Application April 13, 1935, Serial No. 16,163
5 Claims. (Cl. 206—46)

4. A package of a relatively dry, non-tacky, mobile mass of divided substance, having the visual and tactual aspects of a metal container,

comprising rigid relatively unbendable rectangular end-walls each having a covering of lining material attached to its inner face, side-walls formed of flexible materials comprising adhesively attached sheets of lining material and paper joining said end-walls and tensionally stressed from end-wall to end-wall and having their top and bottom edges respectively overlapping and fastened to the outer faces of said end-walls, metallic foil covering two opposite side-walls and having marginal portions extending partially over the adjacent margins of the



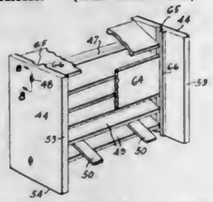
remaining side-walls and end-walls, and a band of sheet material covering the central portions of such remaining side-walls and at least one end-wall with its edges overlapping and concealing the edges of said foil, said package having its confined contents solidly compacted into a substantially unyielding block or mass in compressive engagement between and against the end-walls occupying all of the available space therein so that they fully engage all of the package walls and tension the side-walls between the end-walls.

2,157,195

FURNACE AND COMBUSTION CHAMBER

Frank O. Weeks, Portland, Oreg.

Application March 26, 1937, Serial No. 133,250
1 Claim. (Cl. 110—30)



A grate bar construction for furnaces including plates arranged in pairs, the plates of one pair being formed with downwardly inclined channels extending from one edge of each plate but terminating short of the opposite edge of such plate, the plates of the other pair being formed with upwardly inclined channels opening through similar edges of each plate of the pair and terminating short of the opposite edges of the plates, grate bars cooperating with aligned slots of each pair of plates, the plates being arranged with their non-channeled edges in contact to provide a completely uninterrupted fuel-receiving space between the relatively adjacent edges of the inclined plates, and auxiliary grate bars removably secured to any of the first mentioned grate bars to provide projecting elements beyond that edge of such grate bar defining the fuel space.

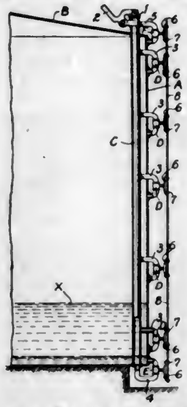
2,157,196

GAUGING APPARATUS FOR LIQUID CONTAINERS

John H. Wiggins, Chicago, Ill.

Application November 5, 1937, Serial No. 172,936
8 Claims. (Cl. 137—18)

1. In a liquid storage apparatus, the combination of a container for holding the liquid, a gauge well located inside of the container and a plurality of passageways arranged at different levels on the exterior of the container, each of



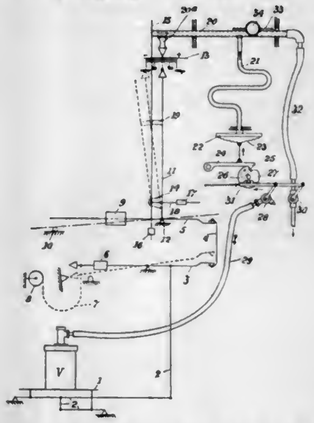
said passageways having a portion that communicates with the interior of the container and a portion that extends through the side wall of the container and communicates with the interior of the well.

2,157,197

APPARATUS FOR MEASURING PREDETERMINED QUANTITIES BY WEIGHING

Adrianus van Duyn, Rotterdam, Netherlands

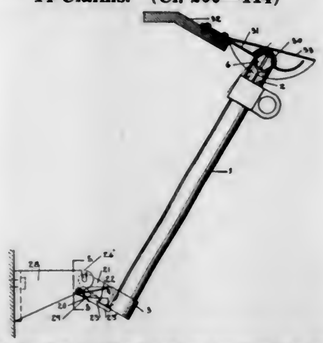
Application September 21, 1937, Serial No. 164,833
In Great Britain September 24, 1936
6 Claims. (Cl. 249—1)



1. In weighing apparatus adapted for measuring predetermined quantities of flowable substance, a source of subnormal fluid pressure, a conduit connected to said source having an end normally open to the atmosphere, substance supply control means adapted to be controlled from said fluid pressure, resilient means for urging the supply control means to a closed position, retaining means adapted to hold the supply control means in the closed position, said retaining means being controlled from said source of pressure, and an obturator on a moving part of the weighing mechanism adapted to close said end open to the atmosphere and thereby to cause the fluid pressure to effect closure of the supply

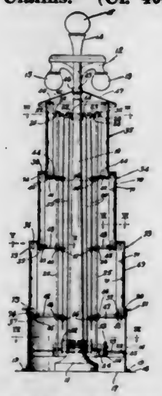
control means when a predetermined weight has been reached, so that the supply of substance is cut off.

2,157,198
FUSE
Oliver B. Curry, El Dorado, Kans., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 11, 1935, Serial No. 30,772
14 Claims. (Cl. 200—114)



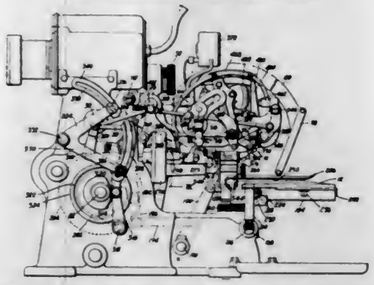
1. In a device of the class described, a fuse tube of insulating material having metal portions in spaced relation, a fuse link mechanism held within the tube and electrically connected at its respective ends to the spaced metal portions, a hinge mechanism connected to one of the metal portions, receivable in a bracket, said hinge mechanism consisting of movable parts normally rigidly held together, means for exerting longitudinal pressure on the tube and means within the tube controllable by the fuse link mechanism for actuating the hinge parts to releasing position to permit the tube to disengage from said means, the hinge mechanism having inherent tendency to restore the parts in rigid position with themselves and with the tube during the disengaging movement of the tube.

2,157,199
ADVERTISING DEVICE
Charles Doering, Chicago, Ill.
Application January 18, 1937, Serial No. 121,159
22 Claims. (Cl. 40—33)



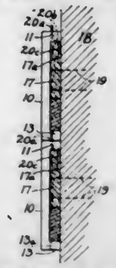
1. In an advertising appliance of the character described comprising a frame, a central standard to support said frame, and a plurality of vertically stepped surface members associated with said frame, said surface members being mounted in predetermined spaced relationship relative to each other.

2,157,200
MARKING MACHINE
Harold Ernest Elliott and Frank Coleman Choice, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 2, 1936, Serial No. 88,680
In Great Britain July 19, 1935
15 Claims. (Cl. 101—96)



1. In a marking machine, a plurality of marking disks mounted for rotative and axial movement, means for selectively rotating said disks to reset them, means for yieldingly holding said disks together against axial movement, and means for relieving the yielding pressure between the disks when one is reset.

2,157,201
TILE AND MEANS FOR SETTING THE SAME
Carl F. Glaser, Chicago, Ill.
Application January 17, 1938, Serial No. 185,274
17 Claims. (Cl. 72—9)



1. The combination of horizontally disposed mounting strips, tiles having upper and lower back lugs above and below said strips respectively for engagement with a wall, and metal clips connecting said strips with the upper lugs of said tiles, said upper and lower lugs having apertures extending vertically therethrough and symmetrically spaced and disposed whereby the upper and lower portions of each of said tiles are interchangeable, and each of said clips having a mid-portion in retaining engagement with one of said strips and having vertical end portions spaced to aline with the upper apertures of each of said tiles and entering the upper apertures of one of said tiles to hold the latter in place on the wall, the upper edges of said mounting strips being spaced an amount substantially equal to the height of said tiles.

2,157,202
DEHYDROGENATION OF HYDROCARBONS
Aristid V. Grosse, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1937, Serial No. 166,581
5 Claims. (Cl. 260—666)

1. A process for dehydrogenating cyclopentane to produce substantial yields of cyclopentadiene which comprises vaporizing said cyclopentane and passing the vapors under dehydrogenating conditions over a granular catalyst comprising essentially a major proportion of activated alumina supporting a minor proportion of oxides of molybdenum.

2,157,203
DEHYDROGENATION OF HYDROCARBONS
Aristid V. Grosse and Julian M. Mavity, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1937, Serial No. 166,580
5 Claims. (Cl. 260—666)

1. A process for dehydrogenating cyclopentane to produce substantial yields of cyclopentadiene which comprises vaporizing said cyclopentane and passing the vapors under dehydrogenating conditions over a granular catalyst comprising essentially a major proportion of activated alumina supporting a minor proportion of chromium sesquioxide.

2,157,204
CONVERSION OF HYDROCARBONS
Aristid V. Grosse and Jacque C. Morrell, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1937, Serial No. 166,584
4 Claims. (Cl. 260—668)

1. A process for the production of aromatic hydrocarbons from aliphatic hydrocarbons of from six to twelve carbon atoms, which comprises dehydrogenating and cyclizing the aliphatic hydrocarbon by subjection to a temperature of the order of 400 to 700° C. for a period of time not exceeding 10 seconds in the presence of a catalyst comprising molybdenum oxide and chromium oxide.

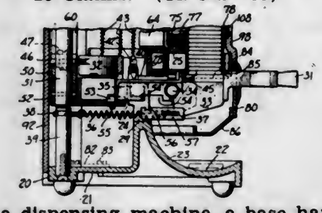
2,157,205
PAINT
William T. Hancock, Long Beach, Calif.
No Drawing. Application December 13, 1937, Serial No. 179,451
5 Claims. (Cl. 134—39)

5. A white paint comprising a resinous vehicle, a white pigment normally subject to permanent discoloration when heated to high temperatures, and finely divided elemental molybdenum suspended in the paint, the molybdenum being less than substantially 5% by weight of the paint and being pulverized to a fineness passing substantially 150 mesh screen.

2,157,206
MANUFACTURE OF DIAZO TYPE MATERIAL
Walker M. Hinman, Winnetka, Ill., assignor to The Frederick Post Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 6, 1937, Serial No. 119,288
2 Claims. (Cl. 95—6)

1. A diazotype print having a commercially white back and face, the face having an additional blue tint not present in the back, the two whites being of such character that there is absence of sharp contrast between the face and the back, the said blue tint in the face serving to avoid a contrast between the face and the back upon aging of the print with the background of the face exposed to light.

2,157,207
DISPENSING MACHINE
Fairfield W. Hoban, New York, N. Y., assignor to Stewart & McGuire, Inc., New York, N. Y., a corporation of New York
Application August 21, 1937, Serial No. 160,224
16 Claims. (Cl. 312—68)

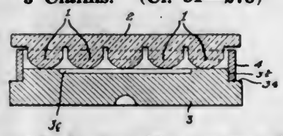


1. In a dispensing machine, a base having an arcuate delivery chute, an axially disposed spring anchorage, a plurality of radially disposed, horizontally reciprocable article ejectors carried in the base above the chute, a plurality of radially extending springs secured to said anchorage and to the ejectors for restoring the ejectors to normal position, and an article storage magazine above each ejector and from which the ejector is adapted to remove an article, the magazines being equidistant from the axis about which the ejectors are disposed.

2,157,208
POLYMERIZATION AND CATALYST THEREFOR
Vladimir Ipatieff and Raymond E. Schaad, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 20, 1937, Serial No. 164,760
5 Claims. (Cl. 196—10)

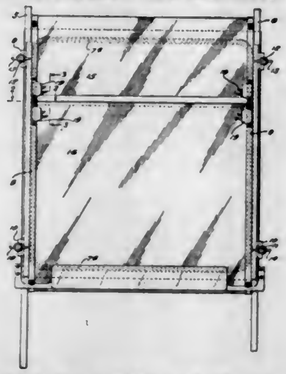
1. A process for the polymerization of olefins which comprises subjecting said olefins under polymerizing conditions of temperature and pressure to contact with a catalyst prepared by mixing tetra-phosphoric acid and a siliceous adsorbent and calcining the resultant mixture.

2,157,209
METHOD OF MAKING LENSES
Richard W. Luce, Westfield, N. J., assignor to Signal Service Corporation, a corporation of Delaware
Application March 22, 1938, Serial No. 197,326
3 Claims. (Cl. 51—278)



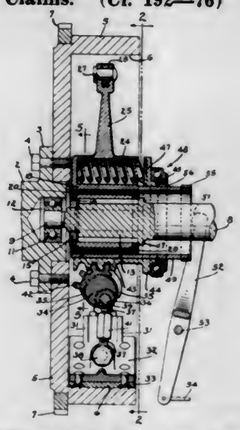
2. The method of making lenses of the type described which method comprises molding several lenses in a gang with the corresponding ends of the several lenses united, setting the lenses in pitch on a grinding block and grinding away the material uniting the lenses to separate the lenses.

2,157,210
PILOT-HOUSE WINDOW
Waldo L. Kraemer, Brooklyn, N. Y., assignor to Kearfott Engineering Co., Inc., a corporation of New York
Application September 30, 1937, Serial No. 166,681
2 Claims. (Cl. 114—177)



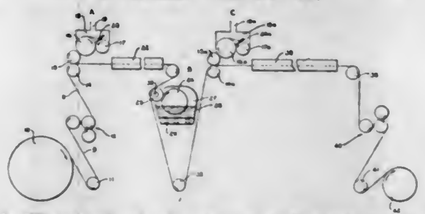
1. A pilot-house window adapted to provide a vision slot for a pilot comprising in combination a window frame having a window opening therethrough, a gasket extending from the frame axially of the window opening and surrounding the window opening, a pair of window-pane guideways mounted on the window frame for movement laterally thereof, one on each side of the window opening through the frame, a pair of window panes slidably mounted in the window-pane guideways, the window panes meeting in the closed position at a point above the center of the window opening and extending beyond the gasket a substantial amount, a weather-tight sealing means carried on the edge of one of the window panes, and means for moving the window-pane guideways laterally of the frame to effect a sealing engagement of the window panes and the gasket.

2,157,211
FRICTION CLUTCH
Harry W. McDonald, Minneapolis, Minn.
Application December 16, 1935, Serial No. 54,686
5 Claims. (Cl. 192—76)



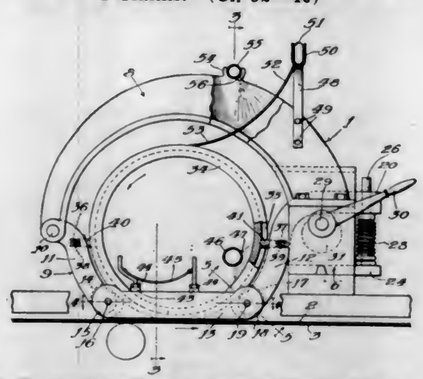
1. In a clutch of the class described, a drive shaft, a friction drum secured thereto, a driven shaft, a member mounted on the driven shaft and adapted for rotation therewith, a plurality of rack bars mounted on said member and adapted for axial movement thereon, friction shoes, guides on said member for supporting the friction shoes and whereby they are adapted for radial movement, eccentrics having teeth on their peripheries engaging the rack bars, and means connecting the eccentrics to the friction shoes, whereby the latter may be moved into or out of driving engagement with the drum when the eccentrics are rotated by axial movement of the rack bars.

2,157,212
IMPERVIOUS SHEET MATERIAL
George Arlington Moore, Louisville, Ky., assignor to Humoco Corporation, Louisville, Ky., a corporation of Delaware
Application October 26, 1937, Serial No. 171,001
8 Claims. (Cl. 91—68)



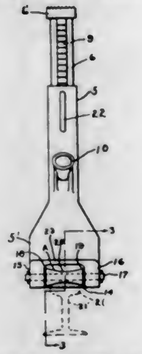
1. The method of coating a fibrous material which comprises applying a film of nitro-cellulose lacquer to the surface thereof, drying said film, casting a wax film thereon, hardening the latter, casting a second film of nitro-cellulose lacquer on said wax film, and drying said second film.

2,157,213
COATING DEVICE FOR WET PAPER
William M. Nash, Chicago, Ill., assignor, by direct and mesne assignments, of one-fourth to Roy A. Nash, New Rochelle, N. Y., one-fourth to Mary Jones, Neenah, Wis., and one-fourth to Marie Duvall Nash, Neenah, Wis.
Application July 2, 1936, Serial No. 88,551
4 Claims. (Cl. 92—40)



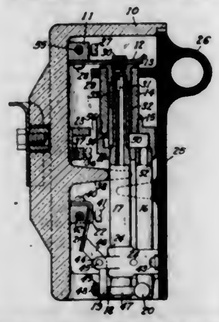
1. In combination with a paper making machine wherein a relatively wet newly formed web is continuously carried forwardly upon a paper forming wire, means for coating a surface of said web comprising, a dandy roll supported above the path of travel of the web, the surface of said roll being in contact with said web, means for discharging coating material onto the surface of said roll whereby the same is deposited by said roll upon the surface of the web, said means comprising a flexible apron positioned above said roll, said apron contacting the roll along a substantially tangential plane adjacent the top of the roll, and means for distributing a mobile coating material upon said apron, and a trough disposed within the roll and coextensive with the length thereof for retrieving coating material which passes through the surface of the roll.

2,157,214
RAILROAD LIFTING JACK
Isamu Okuda, Seattle, Wash.
Application August 9, 1938, Serial No. 223,898
2 Claims. (Cl. 254—1)



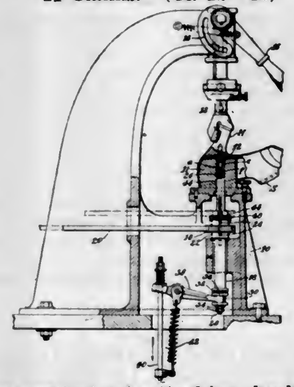
1. A jack for railway use, including a base having a recess at one end located wholly within the outline of the base, and a supporting roller mounted for rotation within such recess, the surface of the roller being concave on an outline conforming to the top of the head of the rail with which the jack is to be used, whereby rolling and guiding of the jack is provided for in jack movement from place to place.

2,157,215
ELECTRIC CUT-OUT
Ralph R. Pittman and Carroll H. Walsh, Pine Bluff, Ark.
Application August 25, 1937, Serial No. 160,864
7 Claims. (Cl. 200—115)



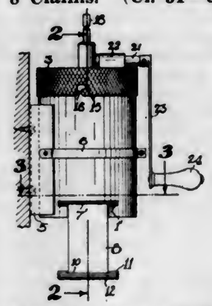
1. A cutout comprising a housing of insulating material, spaced conducting line and load terminals within said housing, a door detachably mounted on said housing, an expulsion fuse tube rigidly secured to said door, said fuse tube spanning said terminals, a hollow tubular insulator of gas evolving material supported on said fuse tube between said terminals, spaced electrodes associated with said tubular insulator, said electrodes being arranged to provide a preferential spark path therebetween within said insulator, vent means for said insulator, said vent means including a gas collecting chamber at the lower end of said insulator and a hollow tube of insulating material in communication therewith extending longitudinally downward along said fuse tube, and means including a resilient line terminal contact mounted on said line terminal for absorbing the recoil due to the downward discharge of gas from either said expulsion fuse tube or said tubular insulator.

2,157,216
METHOD OF AND MEANS FOR INSERTING FASTENINGS
Nedd C. Pollard, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 6, 1937, Serial No. 135,281
11 Claims. (Cl. 12—42)



4. The method of attaching heels to shoes which consists in applying a heel to the heel-seat of a shoe, associating a fastening with a tool, forming an opening in the heel-seat of the shoe and in the heel by the tool in advance of the fastening, and during the formation of the opening inserting the fastening in said opening to secure the heel to the shoe.

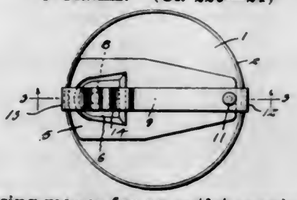
2,157,217
COMBINATION MATERIAL MIXER AND MOLD
George C. Rauch, Salinas, Calif.
Application March 17, 1937, Serial No. 131,463
8 Claims. (Cl. 31—36)



1. In a material mixer, a material container

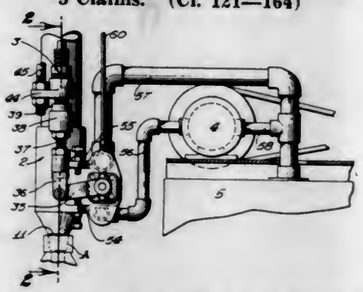
having a discharge opening at one end, a reciprocating member in the container for mixing material, means for reciprocating the member, and a disc mounted between the member and the material for engagement with the latter when it is desired to discharge the material from the container's discharge opening.

2,157,218
CLOSURE DEVICE
Donald M. Ross, Granger, Wash.
Application October 14, 1935, Serial No. 44,931
3 Claims. (Cl. 220—24)



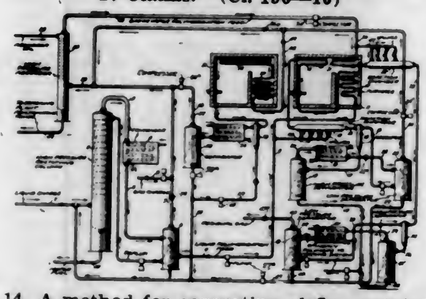
1. Closing means for an outlet opening in a can top, comprising a plate adapted to lie upon the can top with a portion over the opening, a pivot member carried by the plate remote from the opening covering portion thereof, a flat securing strap secured by said pivot to the plate for oscillation across and in contact throughout the major portion of its length with the adjacent surface of the plate, and hook means at each end of the strap adapted to engage opposite points on the edge of the can when the strap is oscillated over and in contact with the plate, said strap having an inherent resiliency and being transversely corrugated to yield longitudinally when the hook means are moved into edge engaging position.

2,157,219
HYDRAULIC PUMPING JACK
Herbert M. Salentine, Los Angeles, Calif.
Application December 27, 1935, Serial No. 56,308
5 Claims. (Cl. 121—164)



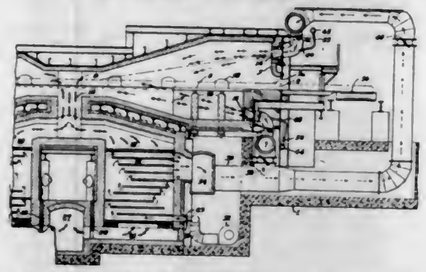
1. In a hydraulic pumping jack having a cylinder and a piston therein, said piston arranged to be raised by hydraulic pressure and to be lowered by the load on said jack; piston speed control means comprising: a plunger of reduced diameter projected downwardly from said piston; a socket in the lower head of said cylinder arranged slidably to receive said plunger; a channel arranged to permit the escape of hydraulic fluid from the lower end of said socket; a second channel arranged to permit the escape of hydraulic fluid from the annular space between said plunger and the wall of said cylinder; a regulating valve interposed in said second channel, and means for introducing hydraulic fluid under pressure into the lower end of said socket to move said piston upwardly at a relatively rapid rate until said plunger emerges from said socket and thereafter at a lower rate.

2,157,220
METHOD OF CONVERTING HYDROCARBONS
Hermann C. Schutt, Mount Vernon, N. Y., assignor, by mesne assignments, to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application March 26, 1934, Serial No. 717,456
17 Claims. (Cl. 196—10)



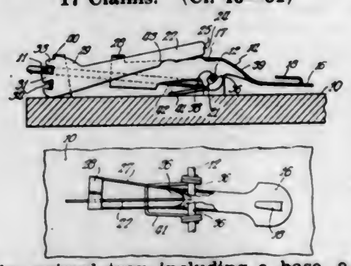
14. A method for converting olefin-containing hydrocarbon gases to gasoline boiling range hydrocarbons which comprises separating said gas into a fraction consisting chiefly of low molecular weight hydrocarbon gases and a fraction consisting chiefly of high molecular weight hydrocarbon gases, subjecting said fractions to different time-temperature conversion conditions favorable to the conversion of the olefinic hydrocarbons contained therein to gasoline boiling range hydrocarbons, and recovering a distillate of gasoline boiling range from the combined reaction products.

2,157,221
CONTINUOUS HEATING FURNACE
Howard F. Spencer, Pittsburgh, and William A. Morton, Mount Lebanon, Pa., assignors to Amco, Incorporated, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 19, 1936, Serial No. 86,146
5 Claims. (Cl. 263—6)



1. A continuous heating furnace comprising, an elongated heating chamber for receiving and discharging materials at opposite ends thereof, having a hearth for supporting materials thereon burners located intermediate the respective ends of the furnace chamber and above and below the hearth of said chamber, a waste gas passage intermediate the burners for exhausting the products of combustion from said chamber, and means for supplying regulable quantities of fuel and air to said burners to produce and maintain controllable temperature zones at and intermediate the ends of said furnace chamber.

2,157,222
ANIMAL TRAP
Herbert A. Stilson, Chicago, and Robert H. Sharp, Marengo, Ill.; said Sharp assignor to said Stilson
Application April 20, 1935, Serial No. 17,412
17 Claims. (Cl. 43—81)



1. An animal trap including a base, a spring actuated jaw pivoted on said base, a trigger for releasably holding said jaw in the set position, and a treadle for releasably retaining said trigger in the jaw holding position; said treadle including an elongated bait receiving portion having at one end a trigger seat arranged to engage the tip end of said trigger, a pair of fulcrum points on opposite sides of said trigger seat for engaging a relatively fixed fulcrum on said base whereby movement of the other end of said bait receiving portion of said treadle toward either side will swing said treadle about one or the other of said fulcrum points and slide said trigger seat out from under said trigger to release said trigger and said jaw, an extension on said treadle forming a guideway for confining said trigger to approximately its proper lateral position, and means for guiding said trigger more closely to its proper lateral position.

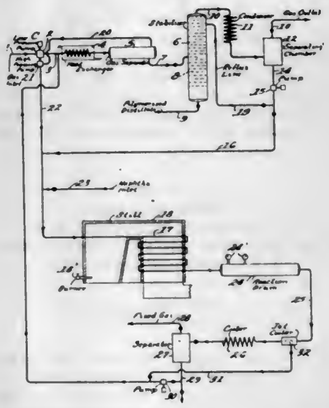
2. An animal trap including a base, a spring actuated jaw, a pivoted trigger for holding said jaw in the set position and operable by said jaw to its holding position, a pivot pin carried by said base, a forwardly extending treadle pivoted on said pivot pin and including a trigger seat slightly spaced above said pin and positioned to engage the rear end of said trigger, and side walls spaced on opposite sides of said seat and each having an elongated aperture therein for engaging said pivot pin; said apertures being shaped with their upper walls sloping downwardly and forwardly to cause said treadle to assume its forwardmost position with the rear ends of said apertures engaging said pivot pin.

12. An animal trap including a base, a spring actuated jaw, a pivoted trigger for holding said jaw in the set position, a pivot pin carried by said base, a forwardly extending treadle pivoted on said pivot pin and including a trigger seat slightly spaced vertically from said pin and positioned to engage the rear end of said trigger, and an extension on said treadle, said trigger and treadle extension having portions coacting along an inclined plane whereby pivoting of the treadle about a vertical axis will cause it to pivot about a horizotal axis in a direction to release the trigger.

2,157,223
METHOD FOR SWEETENING HYDROCARBON OILS
Earl D. Sutton, Newark, Ohio, assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application June 17, 1935, Serial No. 26,957
15 Claims. (Cl. 196—33)

1. A method of sweetening sour hydrocarbon oils containing free sulfur which comprises adding thereto sufficient aqueous doctor reagent to react with the mercaptans present in the oil and adding to the mixture sufficient water-soluble soap which is insoluble in the oil, to cause a rapid break between the oil and reaction products, the sulfur being present in amounts sufficient to initiate the "break".

2,157,224
METHOD FOR PRODUCING MOTOR FUELS
Cary R. Wagner, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application April 21, 1933, Serial No. 667,255
8 Claims. (Cl. 196—9)

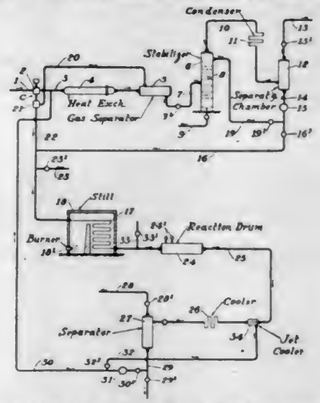


1. In a process of producing motor fuel of high anti-knock rating which comprises mixing gas having an olefin content sufficiently high to react exothermically with rise in temperature and a hydrocarbon oil which reacts endothermically under the conditions to which the mixture is subjected, heating the mixture to a temperature of the order of 850° to 1100° F. under pressures of from 500 to 2000 pounds per square inch, and maintaining the mixture within the reacting temperature range for a period of time sufficient to bring about the desired conversion, the step which consists in proportioning the gas and oil in such quantities that the heat liberated by the reaction of the gas is substantially balanced by the heat absorbed by the reaction of the oil.

2,157,225
METHOD FOR PRODUCING MOTOR FUELS
Cary R. Wagner, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Original application April 21, 1933, Serial No. 667,255. Divided and this application December 4, 1935, Serial No. 52,740
17 Claims. (Cl. 196—10)

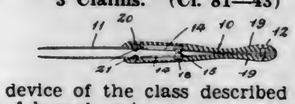
8. In a process for the polymerization of olefinic gases at temperatures of 850° to 1100° F. and under pressures of 500 to 2000 pounds per square inch, the steps of separating liquid products from unreacted gases in at least three stages, the second stage being at a lower pressure than the first stage, separating fixed gases from products in the first stage, eliminating fixed gases from the system, separating gas relatively rich in olefins from at least one stage subsequent to the first

stage and recycling substantially all of said gas directly to the polymerization step, and eliminat-



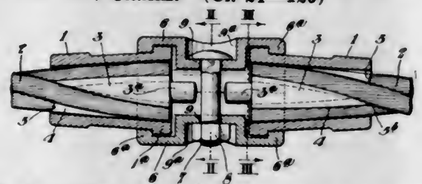
ing the gases low in polymerizable constituents separated in the other stages from the system.

2,157,226
STAMP HOLDER
William Betz, Elizabeth, N. J.
Application February 20, 1937, Serial No. 126,936
3 Claims. (Cl. 81—43)



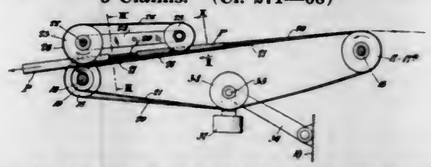
1. A device of the class described comprising a pair of bowed spring arm members arranged in parallel relation and connected at one end, each of said arm members having a longitudinal slot, a headed member positioned in each slot, said members being internally threaded, a threaded stem member engaged with the threads of the headed members and connecting the same, the heads of the member engaging the outer faces of the arm members, said headed members being movable along the slot under action of gravity upon compression of the spring arms, and handle portions on the arm members, said handles having cut away portions for accommodation of the headed members.

2,157,227
ROPE COUPLING
Alan E. Brickman and George A. Gleason, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application March 2, 1938, Serial No. 193,581
7 Claims. (Cl. 24—126)



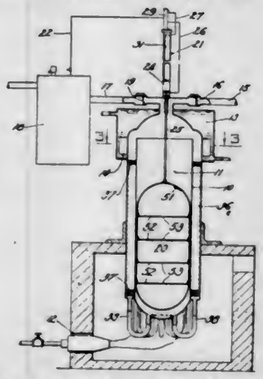
4. A coupling for interfastening the adjacent ends of oppositely extending wire ropes, including two conical sockets for receiving the two rope ends, wedges having rope strand receiving grooves for spreading the rope ends in said sockets, said wedges having the leading edges of their portions between said grooves sharpened to facilitate their initial entry into the rope ends, said sockets providing smooth surfaces for reducing the friction between them and the rope ends to factors below those of the friction between the rope ends and said wedges, whereby the rope ends and wedges tend to be drawn together further into said sockets when the latter are restrained and the ropes are tensioned, a separable connector for application about said sockets to interconnect the same and a transverse fastening for clamping together the parts of said connector about said sockets, the rear ends of said wedges having permanent projections interfering with installation of said element unless said wedges are properly driven into the rope ends, whereby the coupling cannot be completely assembled unless said wedges are properly positioned.

2,157,228
AUTOMATIC CATCHER FOR TIN PLATE
Dario Buccicone and Rudolph A. Fenoglio, Gary, Ind.
Application May 18, 1938, Serial No. 208,692
5 Claims. (Cl. 271—68)



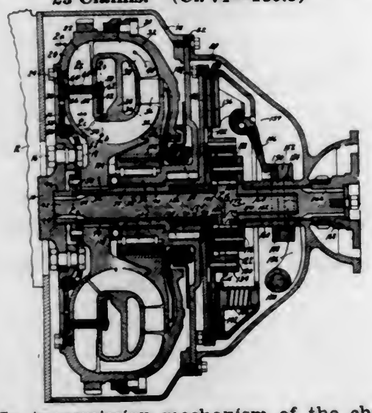
1. An automatic catcher and piling mechanism comprising a plurality of belt-like members trained around spaced pulleys, at least one of which is of a diameter smaller than the others, an intermediate belt-like member trained over spaced pulleys, one of which is juxtaposed to the aforesaid smaller pulley so that as a sheet supported near its side edges by a pair of said members is fed forwardly it will be bowed transverse by the intermediate belt-like member.

2,157,229
APPARATUS FOR COMPRESSING GASES
Vannevar Bush, Belmont, Mass., assignor, by mesne assignments, to Research Corporation, New York, N. Y., a corporation of New York
Application July 17, 1935, Serial No. 31,859
6 Claims. (Cl. 60—59)



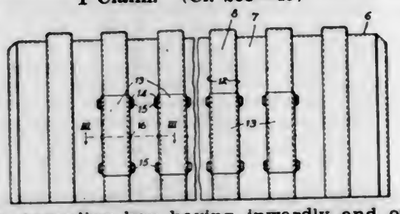
6. Thermal apparatus comprising a chamber having a hot region and a cold region, means for heating the hot region, means for cooling the cold region, and a displacer movable in said chamber to transfer gas between said regions, said displacer having an inwardly opening check valve and being of hollow thin walled construction and being of a strength just adequate to withstand the difference between the maximum pressure and minimum pressure developed in said chamber.

2,157,230
HYDROMECHANICAL POWER TRANSMISSION MECHANISM
Frederick W. Cotterman, Dayton, Ohio, assignor of one-half to Bessie D. Apple, Dayton, Ohio
Application February 26, 1937, Serial No. 127,863
23 Claims. (Cl. 74—189.5)



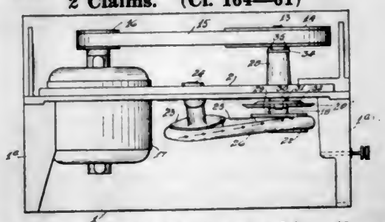
1. In transmission mechanism of the character described, an impeller, a rotor, a gear adapted to be revolved in unison with the impeller, a second gear adapted to be revolved in unison with the rotor, a driven member having gearing in mesh with both said gears, valves for closing the spaces between the impeller blades, and a mechanical connection between said first gear and said valves whereby load on said gear urges said valves to remain closed.

2,157,231
ANNEALING BOX
Kenneth J. Deahl, Pittsburgh, Pa., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 16, 1938, Serial No. 196,202
1 Claim. (Cl. 263—49)



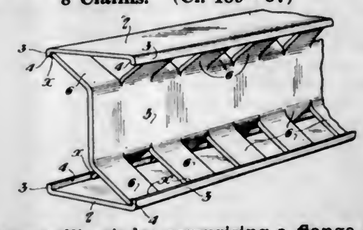
An annealing box having inwardly and outwardly projecting channels formed in the walls thereof and extending vertically, and laterally-spaced and vertically extending protective strips overlying the exposed corners of the outwardly projecting channels at those portions of the channels which are subjected to the greatest heat during an annealing operation, the said strips conforming to the exterior contour of the channels and the webs of the inwardly projecting channels being exposed.

2,157,232
ENVELOPE OPENING MACHINE
Edward J. Dummer and Azel Gay, Rochester, N. Y., assignors to Multipost Co., Rochester, N. Y., a corporation of New York
Original application December 24, 1936, Serial No. 117,486. Divided and this application January 22, 1938, Serial No. 186,357
2 Claims. (Cl. 164—61)



1. In an envelope opening machine, the combination with a bed, a knife arranged laterally thereof and an edge guide for the envelopes associated with the knife to direct the edge of an envelope in the cutting plane thereof, of an endless conveyor belt having a reach thereof extending along and partially above the surface of the bed, said belt being cylindrical in cross section, a mounting for the belt embodying two pulleys, one of which has an axis cocked in two planes relatively to the cutting plane to give the belt a pronounced rotation on its longitudinal axis while travelling between the pulleys and continuously urge an envelope toward the edge guide, and means for driving the pulleys.

2,157,233
METALLIC GIRDER
Robert U. Geib, Jr., Pittsburgh, Pa.
Application December 14, 1938, Serial No. 245,746
8 Claims. (Cl. 189—37)

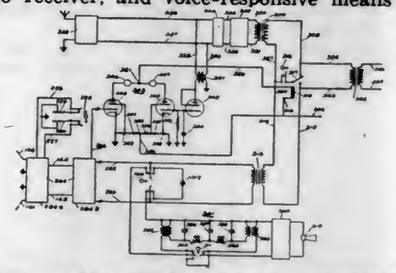


1. A metallic girder comprising a flange member having angularly extending edge portions, and a web member having its major plane at an angle which is substantially normal to the major plane of said flange member, said web member having angularly extending tongues which contact the inner surfaces of the angularly extending edge portions of said flange member.

2,157,234
RADIO TELEPHONE SYSTEM
Donald A. Heisner, Lorain, Ohio, assignor to The Lorain Telephone Company, Lorain, Ohio, a corporation of Ohio
Original application October 14, 1937, Serial No. 168,988. Divided and this application March 21, 1938, Serial No. 197,147
10 Claims. (Cl. 250—6)

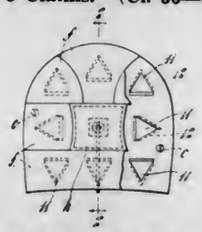
1. In a radio station, a radio receiver, a radio transmitter, a wired telephone circuit, switching means for selectively connecting said wired telephone circuit to said radio receiver and transmitter respectively, means responsive solely to

carrier signals for operating said switching means to connect said wired telephone circuit with said radio receiver, and voice-responsive means for



operating said switching means to connect said wired telephone circuit with said radio transmitter.

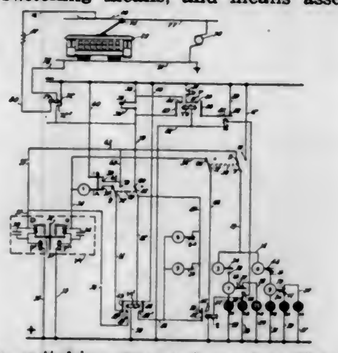
2,157,235
DETACHABLE HEEL AND SOLE FOR FOOTWEAR
Bertram Tom Hewson, North Kensington, London, England
Application June 3, 1938, Serial No. 211,524
In Great Britain January 23, 1936
3 Claims. (Cl. 36—36)



1. A sole or heel for footwear comprising a plate formed integral with or adapted to be attached to the sole or heel of the footwear, said plate being provided with a plurality of independent apertures, at least one for each of the pads which is to be mounted thereon, said apertures being wedge-shaped and of gradually decreasing width towards the outer periphery of the plate and also having undercut side edges adapted to receive correspondingly wedge-shaped and undercut projections on the undersides of a plurality of rubber pads which together, when in position, complete the outline of the surface of the sole or heel, the whole being completed by a removable central pad which holds the outer pads in position and completes the surface of the sole or heel.

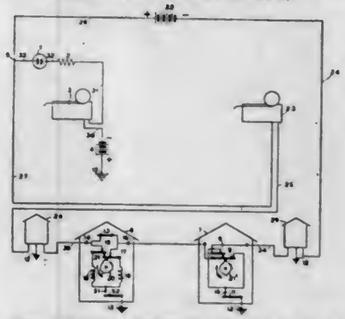
2,157,236
TRAFFIC SIGNALING SYSTEM
Paul P. Horni, Newark, N. J.
Application July 9, 1937, Serial No. 152,772
5 Claims. (Cl. 177—337)

1. An automatic signaling system for highway intersections including signal circuits arranged to provide a Go signal for the main highway and a Stop signal for the side street, and circuits arranged to provide a Stop signal for the main highway and a Go signal for the side street, switching means to alternately energize and deenergize the circuits through a cycle in which all signal circuits which are normally deenergized are energized to indicate Go on the main street and later indicate Go on the side street for at least a predetermined minimum period, and then return the Go indication to the main street, means actuated by traffic to initiate the said cycle of the switching means, and means associated



with the switching means to restore the signal circuits to a normally deenergized condition at the end of a signal cycle.

2,157,237
FIRE ALARM SIGNALING SYSTEM
Paul P. Horni, Newark, N. J.
Application April 19, 1938, Serial No. 202,863
3 Claims. (Cl. 177—367)

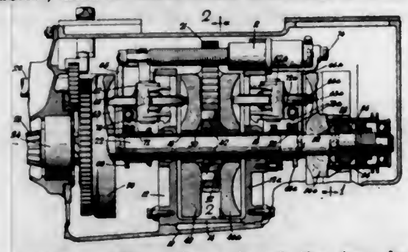


2. In an alarm system having a plurality of signaling stations and a manifestation device connected in a normally closed energized loop circuit, a common return conductor, each signaling station having mechanism to successively open said loop circuit and connect said loop to the common return conductor to transmit an alarm, an auxiliary source of electrical energy and an auxiliary manifestation device in series between said loop circuit and said common return conductor; a gaseous discharge tube in series with said auxiliary source of electrical energy, signaling stations, and loop, whereby small values of leakage current between said loop and said common return conductor are substantially eliminated.

2,157,238
DOUBLE TORIC FRICTION TRANSMISSION
John H. Hunt, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 7, 1934, Serial No. 724,244
6 Claims. (Cl. 74—281)

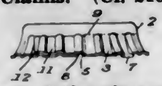
1. A duplex race and roller transmission mechanism consisting of two similar halves arranged to receive the input power and transmit it divided substantially equally between the two halves, a torque loading device adapted to increase the pressure between the contact surfaces

of races and rollers in proportion to torque requirements, said torque loading device arranged to receive the torque of one-half only of the transmission, and a differential mechanism between



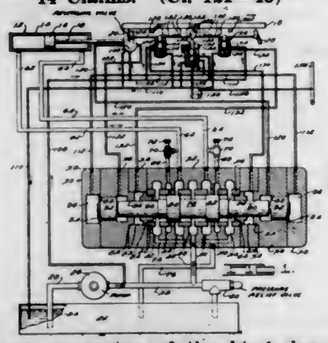
two corresponding elements of the two halves of the transmission mechanism whereby the torque in the two halves is maintained substantially equal.

2,157,239
BOTTLE CAP
George H. Hutaff, Jr., Wilmington, N. C.
Application February 1, 1938, Serial No. 188,170
10 Claims. (Cl. 215—46)



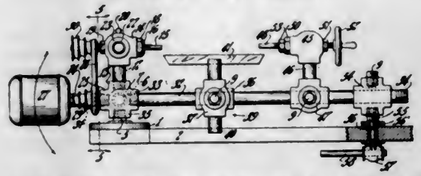
1. A bottle cap of the character described including top and flange portions, the flange having an opening formed in its free edge, and a tear strip extending through the flange opening with a portion extending parallel with the interior of the flange and a portion extending parallel with the exterior thereof.

2,157,240
VALVE STRUCTURE
Adolf Keel, Highland Park, Mich., assignor to Ex-Cell-O Corporation, a corporation of Michigan
Application February 21, 1935, Serial No. 7,546
14 Claims. (Cl. 121—45)



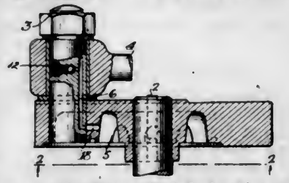
1. In an apparatus of the kind described, a casing having a bore formed axially therethrough, a hydraulically actuated valve adapted to fit and slide in said bore, an opening in line with said bore, a collar in said opening having a limited capability of movement adapted to determine the travel of said valve, a plunger extending through said collar and adapted to reciprocate with reference thereto contacting said valve and adapted to be actuated by fluid pressure, and means for supplying a fluid pressure to said opening around said plunger and back of said collar, and a second fluid actuated plunger of limited movement adapted to dominate movement of the first named plunger and engaging the outer end of the same.

2,157,241
MACHINE TOOL
Axel A. Manning, Springfield, Mass.
Application March 9, 1937, Serial No. 129,884
11 Claims. (Cl. 29—27)



1. In a machine tool construction, a support, a member pivotally secured on said support for movement about a vertical axis, a shaft revolvably secured in said member for movement about a horizontal axis, a block secured on said shaft, a head stock supported on said block, a spindle in said headstock, a second shaft revolvably secured in said block, a motor secured on said second shaft, and operative connecting means between said motor and said spindle.

2,157,242
BALANCE WHEEL AND SELF-OILING WRIST PIN
Joseph H. Meagher, Bessemer, Mich.
Application May 15, 1937, Serial No. 142,893
2 Claims. (Cl. 74—605)

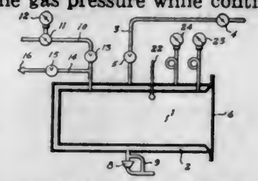


2. An automatically self-lubricating wrist pin mounted on a rotatable element, said rotatable element having a lubricant containing compartment therein, a channel leading through said wrist pin from the lubricating compartment to the bearing surface, said channel having a component extending in the direction of a radius of the rotatable element, whereby lubricant may flow therethrough under the impetus of centrifugal force while said rotatable element is in motion, and an adjustably mounted spring pressed ball valve in said channel component closing the passage through said channel while said rotatable element is at rest, and yieldably opening in proportion to the rate of rotation of the rotatable element while said rotatable element is in motion to permit the passage of the lubricant thereby.

2,157,243
METHOD OF MAKING SOFT SPONGE
Henry R. Minor, Dayton, Ohio, assignor to Industrial Process Corporation, Dayton, Ohio, a corporation of New York
Application April 15, 1937, Serial No. 137,129
13 Claims. (Cl. 18—53)

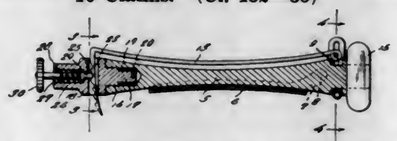
1. In a method of making sponge rubber, the step of (a) subjecting the rubber to a gas pressure at substantially constant room temperature

until impregnated; (*b*) a step of elevating the gas pressure and the temperature; (*c*) the step of decreasing the gas pressure while continuing the



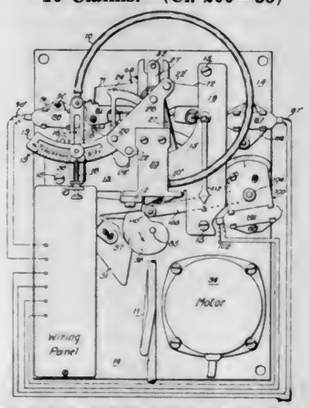
temperature; (*d*) and the step, after a release of sufficient gas to cause the desired sponging, of continuing the temperature to vulcanize the rubber in its sponged condition.

2,157,244
HAIR CURLER
Frank Pisciotta, St. Albans, N. Y.
Application March 30, 1938, Serial No. 199,023
16 Claims. (Cl. 132—33)



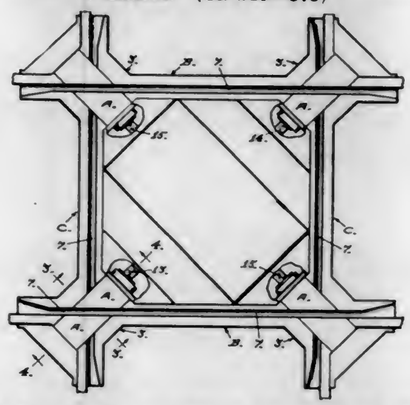
1. A hair curler comprising a mandrel adapted to have a strand of hair wound thereabout, a clamp pivoted at one end of the mandrel and having an inturned free end positioned transversely at one end of the mandrel and catch means releasably engaging the free end of the clamp to secure the clamp in hair engaging position on the mandrel.

2,157,245
MOTOR MODULATOR
Leon S. Reagan, Tulsa, Okla., assignor to Webster Engineering Company, Tulsa, Okla., a corporation of Delaware
Application March 30, 1938, Serial No. 198,981
10 Claims. (Cl. 200—56)



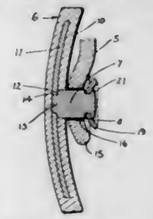
1. In apparatus of the class described, the combination of two switch-operating members, a pendulum whose position with respect to a neutral position is subject to change by a condition to be controlled by the apparatus, a sector plate having an axis of rotation remote from its arc, means for oscillating said plate on said axis and for reciprocating the same, said plate being arranged to actuate one or the other or neither of said members depending on its position in the plane of its swing prior to its being reciprocated, and means under the control of the pendulum for adjusting the position of said plate in said plane.

2,157,246
RAILWAY CROSSING
Luther Sadler, Los Angeles, Calif.
Application May 9, 1938, Serial No. 206,765
7 Claims. (Cl. 246—378)



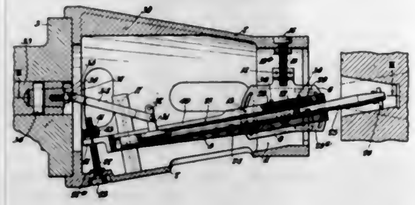
4. In a railway crossing, intersecting rails, members rotatable at the intersections of said rails for closing the intersection gaps, each of said members being substantially cylindrical and provided on certain opposite sides with flat tread portions and on other opposite sides with arcuate bearing portions, and means for supporting each of said members for rotation about a substantially horizontal axis.

2,157,247
OPHTHALMIC MOUNTING
Elmer L. Schumacher, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 23, 1936, Serial No. 107,181
7 Claims. (Cl. 88—49)



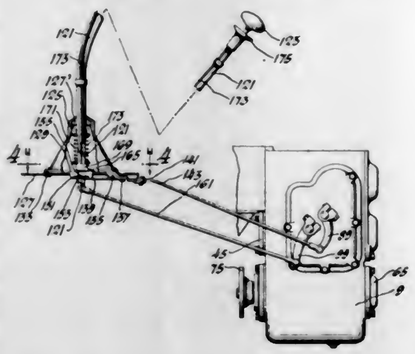
6. In an ophthalmic mounting, a nose bearing pad member, a supporting arm member for said bearing pad member, one of said members having a stud projecting therefrom formed with a shouldered portion at a distance from said member greater than the thickness of the other of said members and with a reduced extension and the other of said members having an opening therein through which the stud is adapted to extend and means secured on said reduced extension in engagement with the shouldered portion for attaching the nose bearing pad member to said supporting arm member.

2,157,248
BORING AND THREADING DEVICE
Axel R. Swanson, Chicago, Ill.
Application March 26, 1938, Serial No. 198,311
9 Claims. (Cl. 82—1)



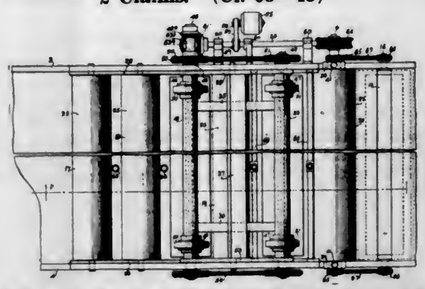
1. A device of the class described comprising a housing, means for attaching said housing to a rotatable spindle of a machine, a cutting tool, means carried by said housing for supporting said tool, and means independent of said housing connecting said tool supporting means to actuating means positioned within said spindle, whereby said tool supporting means may be adjusted laterally and said means positioned within said spindle is adapted to impart a longitudinal feeding movement thereto.

2,157,249
CHANGE-SPEED CONTROL
Perry L. Tenney, Lansing, and Benton Cataline, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 5, 1936, Serial No. 99,560
2 Claims. (Cl. 74—473)



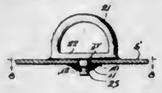
1. For use with transmission mechanism having shiftable members to effect ratio changes, spaced parallel rockshafts extending transversely of and into said transmission mechanism, arms on said rockshafts within said transmission mechanism, connections between said arms and members whereby said arms when rocked move said shiftable members, other and external arms on said rockshafts, a manually operable shift lever, means including a link connected directly to said shift lever and to one of said rockshaft arms, a plate adapted to be reciprocated by said manually operated lever, a link connected to the second of said rockshaft arms and transmitting means between and connected to said last named link and said plate.

2,157,250
CARPET CLEANING MACHINE
John K. Tingle, Connersville, Ind.
Application April 29, 1935, Serial No. 18,720
2 Claims. (Cl. 68—45)



1. In a carpet-cleaning machine, a movable support for the carpet, means for supplying a cleaning solution to the carpet, a pair of vertically reciprocable cleaning members positioned to engage the carpet, and means for moving said cleaning members alternately into engagement with the carpet, each of said cleaning members including a rigid horizontally disposed backing member carrying on the lower surface thereof a sponge rubber pad having spaced downwardly extending projections engageable with the carpet for pressing the cleaning solution in to the carpet, the lower ends of said downwardly extending projections terminating substantially in a horizontal plane.

2,157,251
HANDLE, KNOB, OR LIKE CONSTRUCTION
George A. Tinnerman, Rocky River, Ohio, assignor to Albert H. Tinnerman, Cleveland, Ohio
Application May 20, 1938, Serial No. 209,104
4 Claims. (Cl. 16—110)

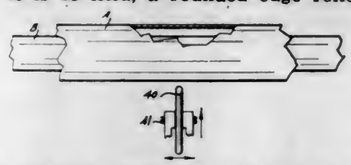


3. Means for mounting a handle, knob or the like onto an apertured supporting member, said handle comprising a one-piece device formed to provide a gripping element including a base attaching portion and integral connecting stud projecting therefrom, said stud comprising a shank having a reduced portion providing a flat face and being receivable in an aperture provided in said supporting member to project onto the reverse side thereof in the applied mounted position of the handle or the like, and means for securing the handle in such applied mounted position, said means comprising a friction lug holding element engaging the projecting portion of said stud at points other than the said flat face reduced portion thereof, said stud being removable upon relative movement disposing said lug holding element of the securing means in the area of said reduced portion.

2,157,252
ROLLING-IN MACHINE
George A. Visser, Floyd E. Deremer, and James T. Sprott, Detroit, Mich., assignors to Oldberg Mfg. Co., Detroit, Mich.
Application March 31, 1937, Serial No. 133,940
12 Claims. (Cl. 153—73)

1. A machine for forming an inwardly projecting bead in a sheet metal tube comprising

means for holding the tube at its ends, with no mandrel therein, and rapidly rotating it axially while it is so held, a rounded edge roller tool,



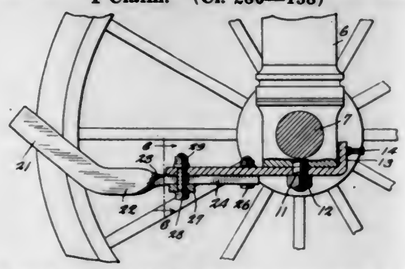
means rotatably mounting said tool on an axis parallel to and adjacent the tube axis, means for moving said tool transversely towards the tube axis.

2,157,253

TRACTOR WHEEL SCRAPER

Harry Gaylord Yetter, Colchester, Ill.

Application February 25, 1938, Serial No. 192,661
1 Claim. (Cl. 280—158)



A scraper for tractor wheels, comprising a wide bracket member, scraping blades secured to the wide bracket member, each scraping blade including a curved blade section and a supporting section, each of said supporting sections of the blades having an elongated opening near the free and thereof, bolts extending through the elongated openings and bracket member adjustably securing the scraping blades to the bracket member, a transverse plate bolted to the bracket member and engaging the supporting sections of the blades, securing the blades on the supporting bracket, and said blade sections adapted to operate adjacent to the tractor wheels for removing foreign matter therefrom.

2,157,254

PROCESS FOR ROASTING MATERIALS RICH IN SULPHUR

Niels Sofus Borch, Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y., a corporation of New Jersey

Application January 4, 1938, Serial No. 183,250
In Great Britain January 8, 1937
6 Claims. (Cl. 75—7)



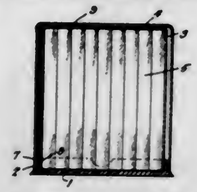
1. In the desulphurization of nickel matte, the steps of introducing into a rotary kiln a mixture of unroasted and roasted nickel matte, causing the matte to flow through the kiln in counterflow to hot gases, and raising the oxygen content of the gases between the inlet and outlet ends of the kiln.

2,157,255

FRICTION SEALING RECEPTACLE

Roy P. Bumpass, Richmond, Va.

Application June 1, 1937, Serial No. 145,905
9 Claims. (Cl. 229—5.5)



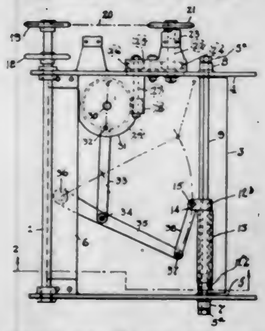
1. Friction-sealing receptacle comprising a rigid bottom member, a body member and an open ended top member, said top member encompassing said body member with the edges of both members lying in operative relation to the bottom member, said top and body members having less rigidity than said bottom member, the latter having a flange of wedge-shaped cross section fitting the space between and slidably engaging the top and body members in the normal closed position of said receptacle, and distorting the edge portions of said top and body members to conform to the shape of and sealingly engage the sides of said flange.

2,157,256

INKING MECHANISM FOR PRINTING PRESSES AND THE LIKE

Joseph Calcaterra, Thornwood, N. Y.

Application September 28, 1937, Serial No. 166,110
7 Claims. (Cl. 101—349)



1. In an inking mechanism for printing presses and the like, the combination of a distributor roller, a redistributor roller in rolling contact therewith, said redistributor roller being less than half the length of said distributor roller, and means for positively and continuously reciprocating said redistributor roller along substantially the entire length of said distributor roller throughout the operation of said press and at least once for four impressions of the press.

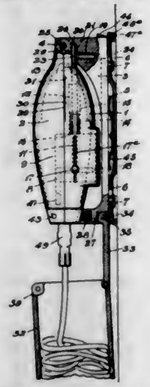
2,157,257

CONTAINER AND CARRYING CASE

Dana S. Crum, Wernersville, Pa.

Application May 12, 1937, Serial No. 142,306
22 Claims. (Cl. 206—16)

1. A container having a closure member cooperating therewith, adapted to be opened and closed, a base member for supporting the container and closure in a plurality of positions with respect to said base, and means operable in one position of the container to hold said closure member closed and in another position to allow



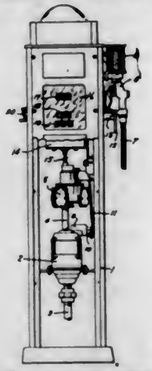
said closure member to open, and cooperative structure on said base adapted to control the operation of said means.

2,157,258

SHUTTER OPERATING MECHANISM FOR REGISTERS OF LIQUID DISPENSING APPARATUS

Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application August 17, 1937, Serial No. 159,517
2 Claims. (Cl. 221—95)



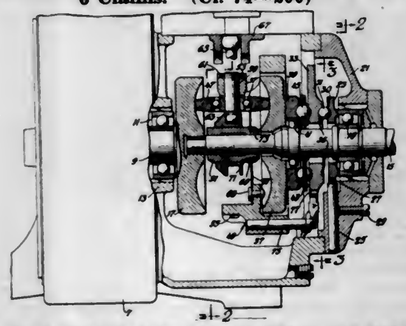
1. In liquid dispensing apparatus of the type having flow establishing means, a meter register operated in accordance with said flow with an indicator for showing the amount of liquid dispensed, and reset mechanism for zeroizing said indicator, the combination therewith of a shutter for said indicator adapted to open and close, means operated by said reset mechanism at the start of a zeroizing operation to close said shutter and at the end of said zeroizing operation to open said shutter, a control member having "on" and "off" positions corresponding to the starting and stopping of said flow, operating connections between said control member and said same shutter comprising cocking mechanism which when released from its cocked position serves to close said shutter and when in uncocked position is inert with respect to closing said shutter, means operated by the control member when moved to "off" position to cock said cocking mechanism, means operated by the control member when moved to "on" position to release said cocked cocking mechanism, and means operated by said resetting mechanism in zeroizing said register to uncock a previously cocked cocking mechanism.

2,157,259

VARIABLE SPEED TRANSMISSION

Thomas C. Delaval-Crow, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 9, 1937, Serial No. 135,905
6 Claims. (Cl. 74—200)



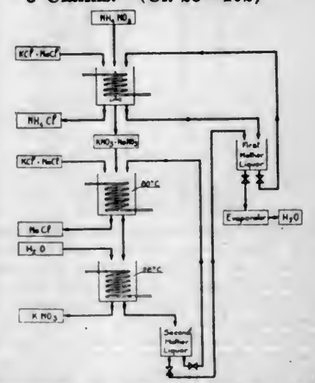
1. In a change speed transmission, coaxial input and output shafts, rollers and races therebetween, a self-aligning support for one of said races, a support for said rollers, a sleeve coaxial with said shafts for centralizing said roller support and axially yielding means between said sleeve and roller support.

2,157,260

PROCESS FOR THE PREPARATION OF POTASSIUM NITRATE

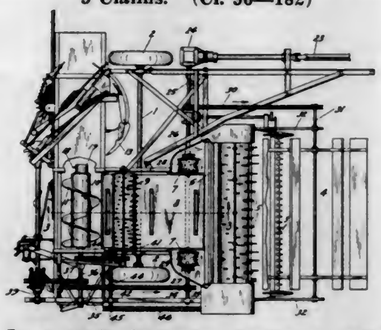
Jean Dessèvre, Louis Durepaire, and Bernard Quanquin, Paris, France

Application May 27, 1937, Serial No. 145,150
In France June 8, 1936
3 Claims. (Cl. 23—102)



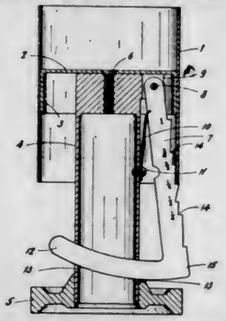
1. A process of manufacturing potassium nitrate, comprising treating ammonium nitrate with a mixture of potassium chloride and sodium chloride in a solution saturated with these salts, separating a mixture of potassium nitrate and sodium nitrate, treating the latter mixture with a mixture of potassium chloride and sodium chloride in a solution saturated with these salts, heating the mass, recovering the sodium chloride precipitated, diluting the remaining solution, cooling the diluted solution, and recovering the crystallized potassium nitrate.

2,157,261
HAYMAKER MECHANISM
George Innes, Davenport, Iowa, assignor to Innes Company, Bettendorf, Iowa, a corporation of Delaware
Application June 21, 1937, Serial No. 149,351
5 Claims. (Cl. 56—182)



1. In a grain harvester having a gathering mechanism for vegetable matter and a conveyor for the gathered vegetable matter; the combination of a slinger for taking the vegetable matter from the gathering mechanisms and throwing it toward the conveyor, and spinners adjacent the two ends of the slinger to receive the vegetable matter from said two ends of the slinger and throw it toward the middle of the conveyor.

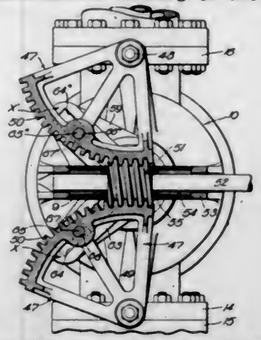
2,157,262
ADJUSTABLE MEASURING CUP
Cecelia S. Jansen, Los Gatos, Calif.
Application August 7, 1937, Serial No. 157,957
8 Claims. (Cl. 73—165)



1. An adjustable measuring cup comprising a cup body having an axially adjustable bottom therein, and a movable latch arm operatively associated with said bottom and having its upper end pivotally secured therebeneath, said arm being provided with a series of stops for selective engagement with the cup body to enable setting of the latter and its bottom in any of a plurality of predetermined positions of adjustment.

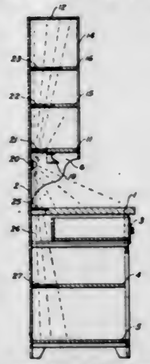
2,157,263
VALVE ACTUATING MECHANISM
Glenn D. Johnson, Compton, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California
Original application December 21, 1936, Serial No. 116,872. Divided and this application August 27, 1937, Serial No. 161,263
9 Claims. (Cl. 137—139)

1. In combination, a pair of members independently rotatable about a common pivotal axis, two levers, one connected with each of said members, a pair of gears carried on spaced pivotal axes, means for simultaneously turning the gears, and operative connections between the gears and levers whereby turning of the gears effects simultaneous turning of the levers.



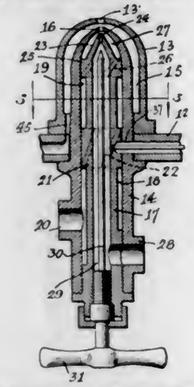
3. In combination, a pair of valve closure members having a common pivotal axis and swingable into engagement with one another to effect a closure, a crank connected with each closure element, an actuating gear, gears arranged at opposite sides of the actuating gear and meshing with the actuating gear, the last named gears having axes of turning spaced from said common axis of the members, a sliding driving connection between one of the cranks and one of the said last named gears, and a sliding driving connection between the other crank and the other last named gear, said sliding driving connections transmitting increasingly heavier turning forces to the cranks and closure members as the members move together to provide a tight closure.

2,157,264
ILLUMINATED STRUCTURE
Samuel B. Kirby, Jr., Louisville, Ky.
Application June 9, 1936, Serial No. 84,327
2 Claims. (Cl. 240—4)



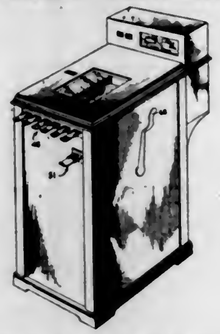
1. A unitary, portable kitchen cabinet having a rear wall integral with the remainder of said cabinet, a work shelf with an open working space thereabove, in front of said wall, a closed cabinet portion spaced vertically below the shelf, means providing access to the closed cabinet from the front, a light positioned in the open working space adjacent the rear thereof, and light pervious means positioned in the shelf adjacent the rear thereof in the path of the light rays whereby the rear portions of the interior of the cabinet may be illuminated by light passing through the light pervious means and may be visible when the front of the cabinet is opened.

2,157,265
OIL BURNER
Paul Pothier and Edmond Vigneault, Trois-Rivieres, Quebec, Canada
Application October 7, 1935, Serial No. 43,940
4 Claims. (Cl. 158—74)



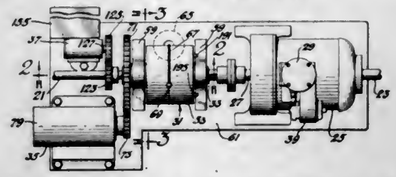
1. In an oil burner, a fuel mixing and spraying nozzle, a double-walled annular oil heating member co-axial with said nozzle, said nozzle discharging a fuel spray through said member, means for supplying fuel to the space between the walls of said member, a valved connection between said space and said nozzle, and open ended combustion chamber members in axial alignment with said first named member and lined with refractory material, said chamber members being positioned to receive the sprayed fuel mixture and spaced endwise for the admission of air therebetween, one of said chamber members having apertures in its wall for additional admission of air.

2,157,266
COMBINATION AMUSEMENT AND ADVERTISING DEVICE
Clement G. Lamica, Newark, N. J., assignor to Harrington E. Drake, Newark, N. J.
Application June 16, 1937, Serial No. 148,604
22 Claims. (Cl. 273—145)



1. In a device of the character described, a plurality of dies bearing indicia, said indicia comprising localized depressions in an otherwise substantially plane surface, manually operated means for imparting movement of a uniform predetermined character to said dies, means operating in conjunction with the aforementioned moving means for receiving and positioning said dies in a predetermined manner, translating means comprising a plurality of pins corresponding in number to the largest total number of indicia exposable upon the surfaces of said dies disposed in one plane and arranged in predetermined design having relation to the arrangement of said indicia on said surfaces, said pins being engageable with the aforementioned localized depressions in said die surfaces, electrical contact establishing and electrical contact-breaking means functioning in conjunction with said pins whereby a plurality of electrical circuits will be altered in a predetermined manner, the total number of circuits so altered being directly proportional to the total number of indicia engaged with the translating means, means cooperating with said translating means for integrating said altered electrical circuits, whereby another electrical circuit is altered in a predetermined manner a plurality of times equal in number to the total number of unintegrated circuits originally altered, and means operated by said integrating circuit for visibly displaying the numerical sum of the indicia engaged with said translating means.

2,157,267
POWER TRANSMISSION CONTROL
Alain Madlé, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 7, 1937, Serial No. 135,360
7 Claims. (Cl. 74—259)

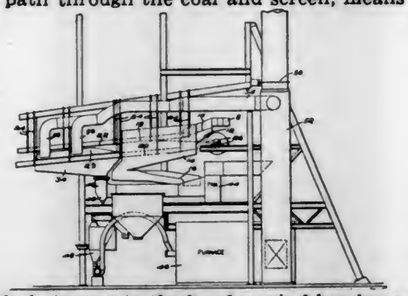


1. In combination, an input shaft, an output shaft, ratio changing mechanism between said shafts, a reaction member also located between said shafts, electrical means actuated by a rotation of said reaction member in response to changes in load on the output shaft to change the ratio afforded by the ratio changing mechanism, said electrical means including a source of energy, a reversing switch and cam operated switches, said switches adapted to be closed by the rotation of said reaction member, a commutator assembly having commutator rings in series with said switches, said commutator rings having contact surfaces of unequal length, a motor influenced by said source of energy and controlled by said switches and commutator rings.

2,157,268
COAL DRIER
William A. Ogg, Cincinnati, Ohio
Application May 13, 1937, Serial No. 142,415
2 Claims. (Cl. 34—38)

1. A mechanism for drying coal comprising an inclined screen having means for vibrating it longitudinally for forwarding a layer of coal along the same with concomitant relative movement of the various pieces or fragments, a hood opposing

the upper surface of the screen and having means for substantially sealing the edges thereof relatively to the screen and its burden whereby exit for gases therefrom is constrained substantially to a path through the coal and screen, means to



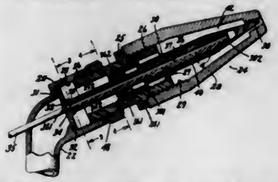
supply hot gases to the hood, a wind box beneath the screen opposite the hood and exhaust means connected to the wind box for creating a downward flow of gases from the hood through the screen and its burden.

2,157,269

TORCH FOR WELDING, CUTTING, AND THE LIKE

Carl R. Richter, Schenectady, N. Y.

Application May 22, 1936, Serial No. 81,169
8 Claims. (Cl. 158—27.4)



1. In a welding torch, a torch pipe, means for admitting gas and oxygen to said torch pipe, a body member supported at the forward end of said torch pipe, a nozzle supported on said body member, said nozzle being provided at its forward end with a conical opening, a welding needle supported on said body member in spaced relation to said nozzle, the forward end of said welding needle being closed, a cutting needle disposed within said welding needle, a passage extending longitudinally of said cutting needle, means for introducing oxygen to said cutting needle, the forward end of said cutting needle being disposed within the closed end of said welding needle, and said welding needle being provided with openings for admitting gases therefrom to the space between said welding needle and said nozzle.

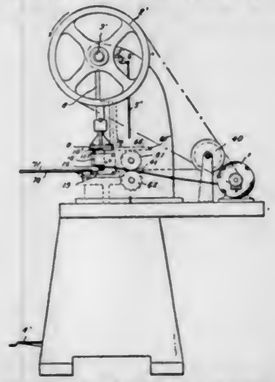
2,157,270

APPARATUS TO MAKE METAL REINFORCED LOOSE-LEAF PAPER SHEETS

Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts

Application April 1, 1937, Serial No. 134,377
13 Claims. (Cl. 93—1)

1. An apparatus for the purpose described including a die plate structure with a top surface divided transversely into two flat work supports at different levels, the difference between the two being only a few thousandths of an inch, guide means to locate a sheet of loose leaf book paper onto the lower work support and with its edge stopped off at the inner transverse edge of that support so as to locate the top surface of the binding margin of the sheet at substantially the same level as the surface of the higher work support, guiding means for a narrow strip of metal thinner than the paper to be pushed so as to slide along the die plate structure in contact with the upper work support and into overlapping relation onto the binding margin of said sheet as the latter is held on the lower work support with the paper edge below the sliding surface to avoid interference in overlapping the very thin materials by relative sliding and contacting movements on the die plate structure while maintaining such materials in flat condition, a hole punch-



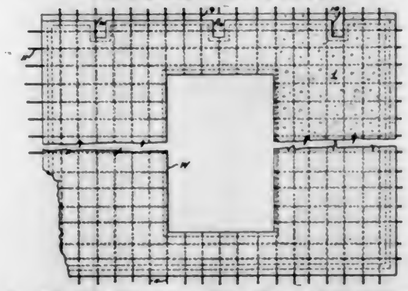
ing tool mounted above the lower work support, another die punching tool located above the upper work support, said second tool having a shape for cutting out a waste piece of metal including a straight line to exactly coincide with the edge line of the paper sheet when positioned as stated above, two separated stripping tools above the die plate structure, one for each punching tool, timed operating means for said punching tools and strippers to cause both strippers to contact the material on both work supports before the punching tools and to stay in contact with said work until the punching tools have left the material in their operation, and cooperating cutting edges in the die plate for said punching tools.

2,157,271

CONCRETE WALL STRUCTURE

Emil E. Schmeller, Chewelah, Wash.

Application July 23, 1937, Serial No. 155,234
2 Claims. (Cl. 72—44)



1. A hollow monolithic wall-section comprising parallel spaced face walls and an intermediate partition, transverse edge-walls having spaced flanges forming extensions of the face-walls and

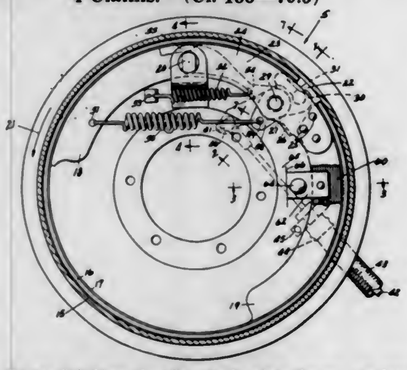
partition, the top edge-wall having a single flange forming an extension of one of the face-walls, and said top edge wall having a number of open front mortises closed at the rear by said last mentioned face wall for the support of joists or rafters.

2,157,272

BRAKE

John Sneed, Grosse Pointe Shores, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio, trustee for Steeldraulic Brake Corporation, a corporation of Michigan

Original application November 18, 1931, Serial No. 575,833. Divided and this application September 4, 1936, Serial No. 99,445
4 Claims. (Cl. 188—79.5)



1. In a friction brake, a brake drum, a backing plate having a struck out portion, a brake shoe, means for moving the shoe into engagement with the drum to apply the brake, braking surfaces carried by the drum and shoe, means normally yieldably holding the shoe away from the drum to maintain the brake in released position, and automatic adjusting means to compensate for wearing away of the braking surfaces, comprising a ratchet toothed portion carried by the shoe, a detent block yieldably cooperatively engaging the ratchet teeth and abutting said struck out portion to limit movement of the shoe away from the drum but not its movement theretoward, the shoe and ratchet section carried thereby being movable relatively to the detent block upon normal application of the brake, through a distance less than the effective distance between successive ratchet teeth whereby upon release of the brake shoe after application thereof it may ordinarily return to its initial position, but upon sufficient wearing away of the braking surface, the shoe carried ratchet section advances a tooth relatively to the detent member, which thereby prevents complete return of the shoe to its initial position upon release thereof.

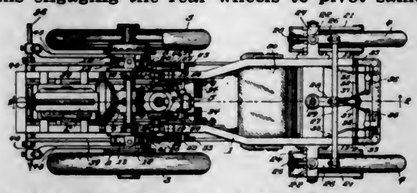
2,157,273

TRACTOR CULTIVATOR

Fred C. Stancil, Altoona, Ala., assignor to Alabama Tractor and Plow Company, Walnut Grove, Ala., a corporation of Alabama

Application July 3, 1936, Serial No. 88,875
1 Claim. (Cl. 280—87.1)

In a tractor, a frame, a pair of front wheels pivotally mounted on the frame, a pair of arms having their one ends connected to their respective front wheels to pivot same, a cross bar pivotally connected to the other ends of said arms, a pair of bell crank levers pivotally mounted on the frame, connecting links connecting the one ends of the bell crank levers to said cross bar, a pair of foot pedals pivotally mounted on the frame, a pair of push rods having their forward ends connected to their respective bell crank levers and their other ends connected to their respective foot pedals, a pair of rear wheels pivotally mounted on the frame, a pair of pivot arms engaging the rear wheels to pivot same, a



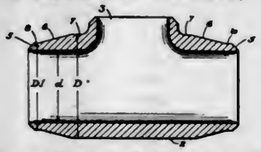
cross bar pivotally connected to the rear wheel pivot arms, a pair of bell crank levers pivotally mounted on the rear end of the frame, connecting links connecting the one ends of the bell crank lever to the rear wheel cross bar, and pull rods having their one ends pivotally connected to their respective rear wheel bell crank levers and their other ends connected to their respective foot pedals.

2,157,274

WELDING T AND METHOD OF MAKING SAME

James Howard Williams, Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a corporation of Delaware

Application April 27, 1937, Serial No. 139,151
2 Claims. (Cl. 29—157)



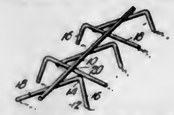
1. A T for welding made from a section of pipe having an extra thick wall for its internal diameter, a nozzle drawn from the wall of said section having a wall thickness corresponding to the standard wall thickness for the internal diameter of said nozzle, a chamfer on the edge of said nozzle for purposes of welding, a chamfer on the edge of each leg of the T for purpose of welding, and a cylindrical surface on each said leg beginning at said chamfer and extending toward said nozzle; the thickness of the T wall at said cylindrical surface corresponding to the standard wall thickness for the internal diameter of the leg.

2,157,275

BAR SUPPORT AND SPACER

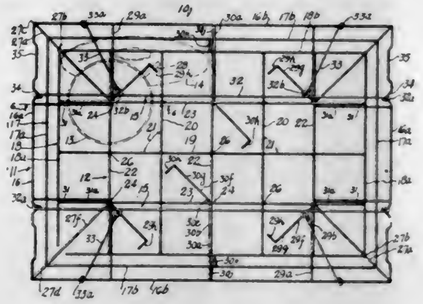
William Powell Awbrey, Kansas City, Mo.

Application August 1, 1938, Serial No. 222,422
5 Claims. (Cl. 72—122)



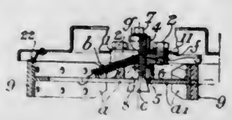
2. A bar support and spacer comprising a longitudinal supporting rod, a series of like bent wire leg members secured at the point of bending to said supporting rod in spaced apart relation, each of said leg members having a relatively short and a long leg so related that all terminate in a common plane with the long legs positioned alternately on opposite sides of said supporting rod.

2,157,276
CUP AND SAUCER BASKET FOR COLLECTIVE DISHWASHING
Catherine Barrie, Cold Spring Harbor, N. Y.
Application November 16, 1937, Serial No. 174,794
4 Claims. (Cl. 141—9)



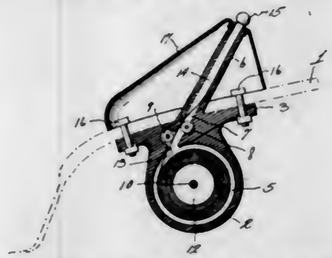
1. A device including foraminous means for the collective washing and storing of cup and saucer elements, comprising a container having a top opening, a frame secured in the container providing upward opening pocket portions for retaining cup elements in spaced relation to each other, said frame being spaced from certain of the container walls to provide a chamber for receiving saucers disposed along generally upright planes, means partitioning said chamber to maintain the saucer elements in spaced relation to each other, the pocket portions having means for receiving and holding the cup handles to prevent rotation of the cup elements, the cup handle holding means being disposed in spaced relation to the saucer chamber, and unitary openable closure means for said pockets and said chamber.

2,157,277
BRAKE
Lucien Bertrand, Paris, France, assignor to Société Anonyme Francaise du Ferodo, Paris, France
Original application January 12, 1937, Serial No. 120,162. Divided and this application November 24, 1937, Serial No. 176,191. In France February 8, 1936
2 Claims. (Cl. 188—79.5)



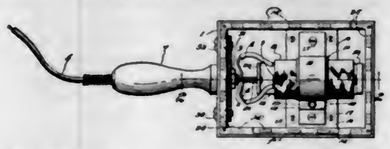
1. In an internal expanding brake, a stationary circular bearing flange, a brake drum concentric to said bearing flange and adapted to rotate relatively to the latter, a pivot-pin with a conical head mounted on said bearing flange and arranged near its circular edge, two opposed semi-circular brake shoes arranged for pivoting about the conical head of said pivot-pin and pressed against this conical head by means of springs, a stationary ring arranged concentric with said conical head, the corresponding ends of said brake shoes being laterally pressed by a spring against said ring, the coefficient of expansion under the action of the heat of said ring being so chosen that the axial displacement of the ends of said brake shoes on said conical head, produced by this expansion, ensures a compensation of the difference of expansion of the brake drum and of the brake shoes.

2,157,278
AUTOMOBILE RADIO AERIAL
Robert B. Blackmore, Casper, Wyo.
Application September 19, 1938, Serial No. 230,542
5 Claims. (Cl. 250—33)



1. An extensive antenna of the character described, comprising a casing, a guide sleeve leading from the interior of the casing, a ribbon-like metal strip wound up within said casing and adapted to be extended therefrom through said guide passage, said ribbon-like strip having the inherent characteristic of naturally rolling transversely when straightened out as it is unwound to assume a tubular form, and means supporting the strip in the casing for extending and retracting the same through said guide.

2,157,279
ELECTROMAGNETIC VIBRATOR
Charlotte Brandenburg, San Antonio, Tex.
Application November 29, 1937, Serial No. 177,020
2 Claims. (Cl. 128—41)

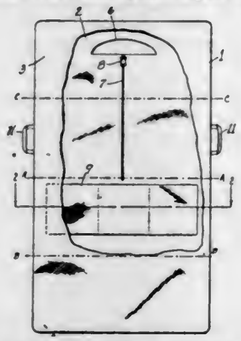


1. An electro-magnetic vibrator comprising a housing with an open face, an armature secured inside the housing, a coil co-operating with the armature for effecting vibration of said armature, a plate lining inside the housing for heat holding and retaining purposes, an adjusting means secured to said armature and extending outside one wall of the housing so that the armature can be moved to and from the coil to control the vibrations of the armature, a perforated plate spaced above the said coil as a protection and to prevent too rapid escape of heat from said coil, and a handle carrying wires for connecting the coil to an external electrical source.

2,157,280
DRESSING BAG
Helen L. Butman, Kalamazoo, Mich.
Application March 23, 1938, Serial No. 197,553
3 Claims. (Cl. 135—5)

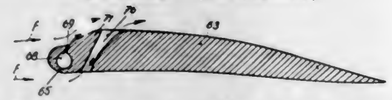
2. In a dressing bag, an elongated tubular member having front and rear walls, a closed top and bottom, and gusseted sides, said member having a single opening only therein adapted to receive the neck of a wearer, a pocket secured

to said bag for receiving articles, and a pair of handles secured to the side edges of said mem-



ber, said handles providing means for carrying the bag.

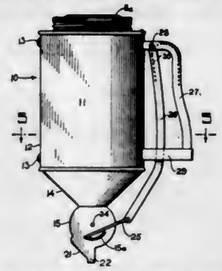
2,157,281
PROPELLING DEVICE
Henri Coanda, Clichy, France, assignor to Société Anonyme d'Etudes des Brevets et Procédés Coanda-Société Coanda, a corporation of France
Original application January 10, 1936, Serial No. 58,471, now Patent No. 2,108,652, dated February 15, 1938. Divided and this application August 13, 1936, Serial No. 95,818. In France January 16, 1935
8 Claims. (Cl. 244—15)



1. In a body member adapted to be propelled in a given forward direction having an elongated hollow leading edge transversely disposed with respect to said direction, and there being two spaced slots running within said leading edge in general parallelism therewith, the combination of features consisting in that the hollow leading edge is adapted interiorly to be fed with a fluid under pressure which issues through the foremost slot and is of rounded exterior section of less size than the general section of the body member but practically tangent with the lower surface thereof, in that said first slot is narrow, unalterable, communicates upwardly in a direction directly transverse to said given forward direction and terminates within the hollow interior of the leading edge, in that the second slot passes entirely through said body member in an upward and unalterably rearwardly inclined manner, and in that the rear lip of the first slot between both slots curves upwardly and rearwardly in rigidly unalterable manner from the opening of said first slot so as to arch rearwardly to at least the full section of said body member.

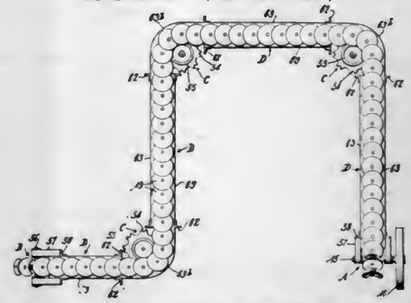
2,157,282
DISPENSER
Francis J. de Javannes, New York, N. Y.
Application January 26, 1938, Serial No. 186,927
1 Claim. (Cl. 221—106)

A portable dispenser for coffee or like granular material, comprising a container for storing said material, a wall of said container being arranged to support said dispenser when not in use, a closed ended substantially cylindrical housing secured to said container at an end thereof and having an opening communicating with said container, a cylindrical measuring drum rotatably mounted within said housing, said drum being in close slidable contact with the inner surfaces thereof, said cylindrical measuring drum having closed end-portions and a peripheral wall provided with an opening, said opening arranged to communicate with said container to afford passage of stored material from said container into said measuring drum, a discharge spout operatively associated with said housing and having an opening communicating therewith, said opening being closed by said peripheral measuring drum wall in any circumstance of communication of said measuring drum wall opening with said container,



handle means secured to said container, and means associated with said handle means and arranged to be grasped concurrently therewith for rotating said measuring drum to effect passage of the contents thereof into said discharge spout, said means comprising a spring biased lever pivotally associated with said handle means and a link pivotally interconnecting an end of said lever and an end wall of said measuring drum, the wall of said housing adjacent said measuring drum end wall having an arcuate slot arranged for the securement of said link to said drum wall, while restricting the degree of rotation of said measuring drum.

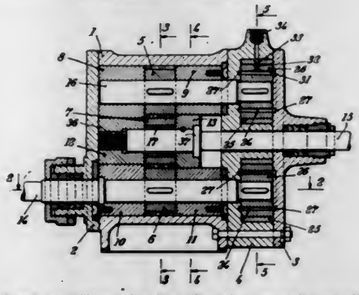
2,157,283
ENDLESS CARRIER OR CONVEYER CHAIN
Ralph S. Dyson, Indianapolis, Ind., assignor to Link-Belt Company, a corporation of Illinois
Application April 12, 1937, Serial No. 136,478
18 Claims. (Cl. 198—182)



1. In an endless conveyer, a chain formed of a plurality of top plate links interconnected by connector links, the pivots at the opposite ends of each link being arranged at right angles to each other, each of said top plate links having a pair of upstanding flanges, a top carrier plate mounted on each pair of flanges, sprockets mounted to rotate about vertical and horizontal axes engageable with the chain to support the latter in both the upper and lower runs thereof and for bending the said runs around corners,

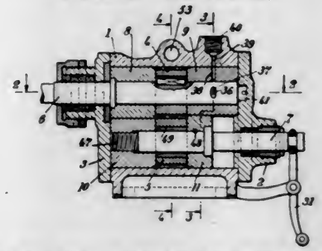
and track members for supporting the upper and lower runs of the chain while traveling between sprockets, said track members for the upper run cooperating with the upstanding flanges of said top plate links for preventing lateral movement of the conveyer.

2,157,284
FUEL FEEDING DEVICE FOR INTERNAL COMBUSTION ENGINES
Fritz Egersdörfer, Berlin, Germany
Original application September 4, 1937, Serial No. 162,430. Divided and this application May 18, 1938, Serial No. 208,617. In Germany September 26, 1932
1 Claim. (Cl. 103—2)



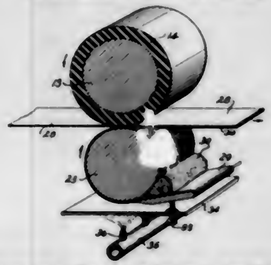
A fuel feeding device for internal combustion engines, comprising a casing, a median gear wheel and outer gear wheels meshing therewith, the corresponding end faces of said outer gear wheels being respectively located substantially in the same planes, said casing being provided at opposite sides of the lines of engagement of the pairs of meshing gear wheels with suction and pressure chambers, driving means for said gear wheels, means for axially shifting said median gear wheel for varying the active length of the teeth of the meshing gear wheels, and fuel distributing members in driving connection with the outer gear wheels and respectively connected with said pressure chambers, said casing being formed with delivery passages located in position for receiving fuel from said distributing members.

2,157,285
FUEL FEEDING DEVICE FOR INTERNAL COMBUSTION ENGINES
Fritz Egersdörfer, Berlin, Germany
Original application September 4, 1937, Serial No. 162,430. Divided and this application May 18, 1938, Serial No. 208,618. In Germany September 26, 1932
1 Claim. (Cl. 103—2)



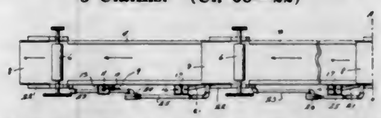
In a fuel feeding device for internal combustion engines, the combination with a casing, a pair of interengaging gear wheels within said casing, said casing being provided at opposite sides of the line of engagement of said gear wheels with suction and pressure chambers and being also provided with delivery passages, driving means for said gear wheels comprising a shaft on which one of said gear wheels is mounted and which is rotatable therewith, and a bushing fitted in said casing and providing a bearing for said shaft, said shaft being substantially equal in diameter at the part carrying the said gear wheel and at the part mounted in said bushing, the part of said shaft mounted in said bushing and the bushing providing a bearing therefor being provided with cooperating distributing passages communicating respectively with said pressure chamber and with said delivery passages.

2,157,286
APPARATUS FOR COATING TEXTILE MATERIAL AND THE LIKE
Charles Emmey, New York, N. Y.
Original application April 13, 1936, Serial No. 74,178. Divided and this application October 13, 1937, Serial No. 168,846
6 Claims. (Cl. 91—48)



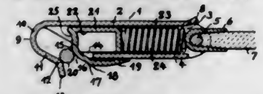
1. Apparatus for applying fusible material onto a receptive surface, comprising a plurality of superposed rotary peripherally contacting cylinders, means for rotating said cylinders counter to each other, opposed adjustable means for retaining the cylinders in relative fixed position, a spreader pivotally mounted on said opposed means contacting the peripheral surface of one of said cylinders for retaining a fusible material thereon and permit formation of a film on said cylinder in its rotation and permit adhesion on to a strip receptive surface intermediate said cylinders in their counter-rotary movement for taking up the spread fusible material on one of said cylinders, and means for heating one of the cylinders and the contacting spreader to permit working of the fusible material.

2,157,287
COUNTERFLOW SYSTEM FOR WOOL SCOURING MACHINES
Frank L. Furbush, Graniteville, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a corporation of Massachusetts
Application December 7, 1937, Serial No. 178,596
5 Claims. (Cl. 68—22)



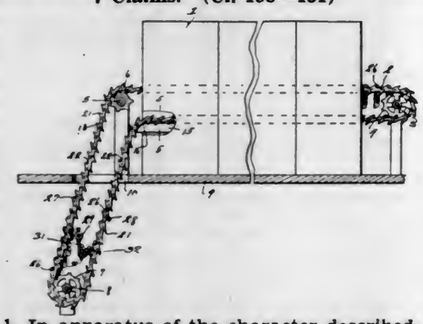
1. A wool scouring machine, including a series of washing bowls, each having a transversely extending screen, means for supplying clean liquid to the last bowl of the series, means for causing the wool to pass from the first bowl of the series to and through the other bowls of the series in succession, and means for taking liquid from below the screen of each bowl and discharging all of the liquid from said bowl successively into the next preceding bowl.

2,157,288
ATTACHING HOOK FOR WATCH WRISTLETS
Eugen Gauss, Pforzheim, Germany
Application May 29, 1937, Serial No. 145,595
2 Claims. (Cl. 24—239)



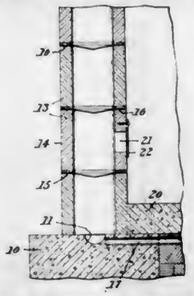
2. An attaching hook for wristlets for watches comprising a housing of rectangular cross-section having top, bottom and side walls, a wide hook extending from one end of the top wall and directed downwardly, rearwardly and then outwardly relative to the top wall of said housing, a closing plate in the mouth of said hook, a resilient closing member mounted in said housing and resiliently bearing against said closing plate, the closing plate having a wall portion partially disposed inwardly of the hook, said hook and partial wall portion, each being obtuse angled in form defining acute angular guideways therebetween to facilitate attachment and separation from a connecting element of a watch wristlet and the closing plate having a notch inwardly at the point of the obtuse angled formation of the hook and closing plate wall portion.

2,157,289
CONVEYER CHAIN
Richard W. Hall, Graniteville, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a corporation of Massachusetts
Application April 28, 1938, Serial No. 204,896
7 Claims. (Cl. 198—131)



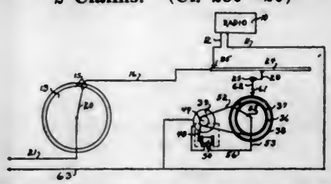
1. In apparatus of the character described, an endless conveyer comprising a pair of spaced parallel endless chains made up of a plurality of pivotally connected links, means forming a part of each of said links adapted to receive the ends of a material carrying pole disposed transversely of the conveyer whereby such pole may be carried in either of two directions upon the upper and lower runs of the conveyer, the said conveyer having a horizontally disposed portion and a downwardly directed terminal portion and the said means operating to maintain the pole transversely of the conveyer when carried either upon the upwardly moving run or the downwardly moving run of the conveyer, and means adjacent the downwardly moving under run of the conveyer for engaging and lifting the pole carried thereby from the said first means.

2,157,290
DRAIN FOR FOUNDATION WALLS
Albert Henderson, Pittsburgh, Pa., assignor to William P. Witherow, Pittsburgh, Pa.
Application February 13, 1939, Serial No. 256,189
6 Claims. (Cl. 72—126)



1. A building construction comprising a footing having a drainage channel formed in the upper surface thereof, a plurality of courses of cored blocks laid on said footing with their voids disposed vertically over said channel and providing continuous drainage passages extending upwardly from the channel through the wall, and a mortar stop laid over one of said courses to prevent mortar droppings falling through said passages from blocking said channel.

2,157,291
RADIO CONTROL DEVICE
Edward L. Lehnus, Plover, Iowa
Application August 10, 1937, Serial No. 158,366
2 Claims. (Cl. 250—20)

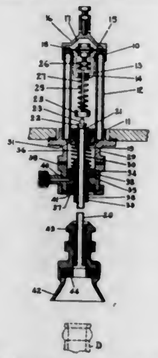


2. In a radio receiver comprising, a tuning means and a power circuit, a plurality of circuits each adapted to tune said receiver to a predetermined frequency, a plurality of time control means for interconnecting each of said latter circuits with each of said first mentioned circuits comprising a plurality of manually controlled members each having a plurality of selectively settable positions; said power circuits being under the control of a plurality of switch members, each of said switch members being operable by one of said manually controlled members when in an off-position to open said power circuit.

2,157,292
BOTTLE FILLING VALVE
Wilfrid Lemire, Montreal, Quebec, Canada, assignor to Charles Gurd and Company, Limited, Montreal, Quebec, Canada
Application December 3, 1937, Serial No. 177,974
In Canada December 3, 1936
7 Claims. (Cl. 226—111)

1. In a bottle filling valve of the type described, a tank for containing liquid under pressure, a

liquid tube in communication with the tank, a liquid valve arranged to engage with the inlet end of said tube for stopping the flow of a liquid under pressure thereto, an operating diaphragm in communication with the tank and a counter-pressure air chamber, an operating stem connecting the diaphragm with the liquid valve whereby pressure in the tank acts through the diaphragm to close the liquid valve, means urging the liquid valve towards the open position, a counter-pressure air inlet, a valve for said inlet, a valve sleeve having an inlet and an outlet opening there-



through, shiftable means arranged to be actuated by a bottle for moving said sleeve and said valve whereby the counter-pressure air may pass from said inlet through said inlet opening in said valve sleeve and into the bottle and into the counter-pressure air chamber whereby the diaphragm is actuated to open the liquid valve, the outlet opening in said sleeve being positioned to allow a portion of the air pressure to pass therethrough from said bottle and the counter-pressure air chamber for closing the liquid valve and gradually releasing the pressure from the liquid after a portion of the liquid has passed through said liquid tube.

2,157,293

FINGER COT

Joseph G. Lenta, Duluth, Minn.

Application July 13, 1938, Serial No. 219,023

1 Claim. (Cl. 2—21)



A finger cot of the character described having a reinforcing bead defining the rear open end of the cot, characterized by having a pair of spaced manipulating tabs extending rearwardly thereof, the lowermost one of which is materially longer than the upper one, and an enlarged gripping member for each tab for convenience in the quick manipulation of the cot.

2,157,294

MERCERIZING LYES AND A PROCESS FOR THEIR MANUFACTURE

Heinrich Lier, Basel, Switzerland, assignor to the firm of Chemical Works formerly Sandoz, Basel, Switzerland

No Drawing. Application January 7, 1937, Serial No. 119,528. In Switzerland January 9, 1936

8 Claims. (Cl. 8—127)

1. The phenol-free alkaline lyes of 18° Bé. and more, possessing good wetting out properties and containing a wetting-capacity increasing agent consisting of such fractions of naphthenic acids that the quotient

$$\frac{\text{acid number of the naphthenic acid fraction}}{\text{content in percent of the alkali in the lye}}$$

is a number between 15–25.

2,157,295

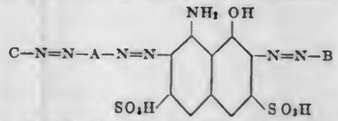
POLYAZO DYESTUFFS AND THEIR MANUFACTURE

Heinrich Lier, Basel, Switzerland, assignor to the firm Chemical Works Formerly Sandoz, Basel, Switzerland

No Drawing. Application March 8, 1938, Serial No. 194,705. In Switzerland March 13, 1937

6 Claims. (Cl. 260—171)

1. Azo dyestuffs of the general formula



wherein A stands for a radical of the benzene series and the diphenyl series, B stands for a radical of the benzene- and naphthalene-series and C represents an acylaminonaphtholsulphonic acid, said dyestuffs dyeing leather level, blue to violet shades of good fastness properties.

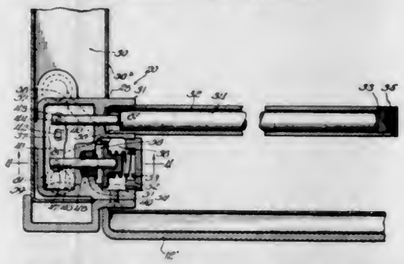
2,157,296

CONTROL DEVICE

Harold A. Mantz, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application July 1, 1931, Serial No. 548,090

5 Claims. (Cl. 236—15)



1. In a temperature control device, a heater burner, a conduit for furnishing fuel to the burner, a valve in the conduit for regulating the flow of fuel to the burner, a valve operating mechanism including a thermostat, means for regulating the effective action of the valve operating mechanism including an eccentrically mounted pivot, and a flexible cable connected to and rotatable by said regulating means for moving said pivot.

2,157,297

INTERNAL COMBUSTION ENGINE

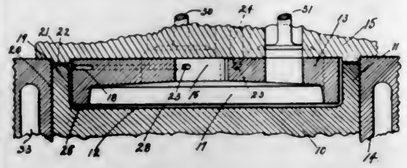
John Peter Megroot, Cleveland, Ohio

Application June 9, 1938, Serial No. 212,739

2 Claims. (Cl. 123—32)

1. In an internal combustion engine the combination of an engine cylinder; a piston reciprocating therein; a peripheral flange projecting beyond the piston head; a cylinder head formed with intake and exhaust ports and an opening

adapted to receive a fuel injection nozzle; a cylindrical insert attached to said cylinder head and provided with an annular flange, a central bore forming an auxiliary chamber, ports and an opening in alignment with said intake and exhaust ports and said fuel-nozzle receiving opening, a plurality of transverse conduits located between said ports and said opening extending from the external periphery of said insert and opening tangentially with respect to the wall of said central bore; said insert projecting into said



cylinder and having an external diameter less than the internal diameter of said peripheral flange, whereby at the top dead center position of said piston said peripheral flange enters the space formed between said annular flange and cylinder wall, forcing the contents of said space into said central bore and forming a clearance between said flanges which is in communication with the combustion chamber defined by the inner surface of said annular flange and the piston head.

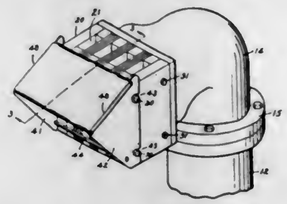
2,157,298

FLAME ARRESTER SAFETY DEVICE

Frans G. D. Muller, Houston, Tex.

Application April 18, 1935, Serial No. 17,003

7 Claims. (Cl. 220—89)



6. A flame arrester having lateral vent openings through which inflammable gases are adapted to be projected laterally outwardly, a fusible cover thereabove and at one side adapted to intercept objects and prevent them from entering said vent openings, said fusible cover being so positioned with respect to said vent openings as to permit relatively free normal operation of the arrester before the cover is fused and a greater freedom of escape of heat from the arrester after the cover is fused.

2,157,299

PACKING DEVICE, STUFFING BOX, AND THE LIKE

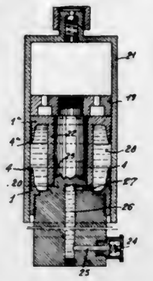
Jean Mercier, Neuilly-sur-Seine, France

Application October 31, 1936, Serial No. 108,523

In Belgium November 5, 1935

13 Claims. (Cl. 309—33)

1. A scraping metal packing comprising a resilient wall portion of elongated, substantially triangular cross-section, and a sealing lip extending from the thinnest and most resilient part of said wall portion and being bent over one surface of the latter at an inclined angle relative to the altitude of said triangle, the free edge of said sealing lip projecting beyond an imaginary plane



extending parallel to said altitude through said adjacent surface at the thick end of said wall portion.

2,157,300

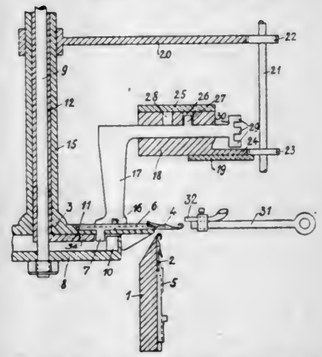
CIRCULAR KNITTING MACHINE

Arthur Neuhauss, Burgstadt, Germany

Application April 9, 1936, Serial No. 73,557

In Germany April 18, 1935

1 Claim. (Cl. 66—24)



A circular knitting machine comprising a cylinder needle circle, a rib disc arranged inside the circle, a guide ring arranged coaxially with the first-mentioned rib disc, rib needles guided and mounted in the rib disc, cylinder needles opposite the rib needles, a plurality of adjusting jacks guided in said guide ring, a cam associated with said guide ring for moving said adjusting jacks, stitch transferring jacks associated both with the rib needles and also with the cylinder needles, a cam having an adjustable tongue adapted to force said adjusting jacks from the inoperative to the operative position, foot members of uniform length arranged on said adjusting jacks and directed radially outwardly, and a pattern device arranged within the range of said foot members adapted to move the adjusting jacks in pattern fashion from the operative to the inoperative position.

2,157,301

CONVEYER FOR GRANULAR MATERIALS

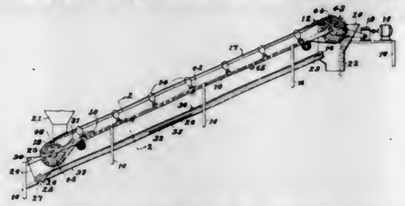
Jacob John Neuman, South Salem, N. Y.

Application November 18, 1937, Serial No. 175,204

10 Claims. (Cl. 198—230)

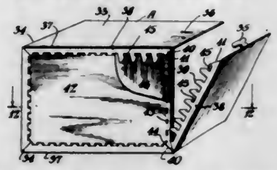
1. In a conveyer, means for collecting material spilling therefrom, and delivering said collec-

tion with the material being conveyed, said means including a spill pan mounted under the conveyer



and extending longitudinally thereof below all parts of said conveyer.

2,157,302
CONTAINER
John Ernest Page, Sydney, New South Wales, Australia, assignor to President and Directors of the Manhattan Company, a corporation of New York, as trustee for the Gibson Patent Containers, Ltd., a corporation of New South Wales, Australia
Original application August 11, 1934, Serial No. 739,408. Divided and this application February 4, 1937, Serial No. 123,965. In Great Britain October 30, 1933
4 Claims. (Cl. 229—23)



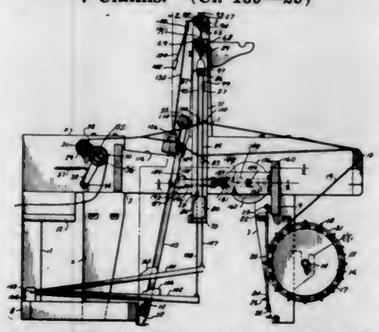
1. A knockdown container of the character described including, a collapsible tubular body member, an end closure for said body member, said end closure having a series of spaced openings therein defining outer and inner sections, said body member having an inturned flange section upon which said end closure is adapted to seat, and a plurality of fingers extending from said inturned section through said spaced openings in said end closure, said fingers being integrally connected to one another through said flange section, and means engaging said fingers to retain the body member and end closure in assembled set-up position.

2,157,303
DRAINING FRYING PAN
William Ralph Penrose and Irving Laird Penrose, Pasadena, Calif.
Application April 24, 1936, Serial No. 76,215
3 Claims. (Cl. 53—5)



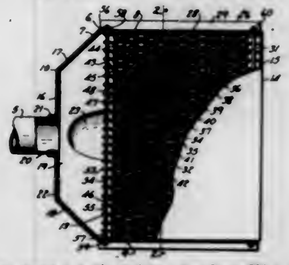
1. A cooker as disclosed including a frying pan, means for mounting said frying pan to be swung into a horizontal position, or into an inclined position for draining the grease from the frying pan, means for heating said frying pan while in a horizontal position or in an inclined position for frying meat in said frying pan, and impaling means for holding the meat in frying position in the frying pan while the frying pan is in an inclined position.

2,157,304
LOOM
Atwood V. Pullins, Kansas City, Mo., assignor of one-half to Charles Hipsh, Kansas City, Mo.
Application December 30, 1937, Serial No. 182,486
7 Claims. (Cl. 139—29)



1. In a loom, a beater, means oscillatably supporting the beater, control means for the beater including a rotary member, inner and outer annular race tracks, means for rigidly supporting the race tracks on the loom, inner and outer sets of rollers on the rotary member engageable with the respective race tracks, and eccentric means connecting the rotary member with the beater.

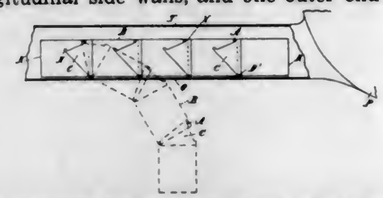
2,157,305
SPRAY EXTRACTOR
Gwynne Raymond, Oklahoma City, Okla.
Application March 6, 1937, Serial No. 129,515
10 Claims. (Cl. 183—75)



1. In a spray extractor, a plurality of rows of fins consisting of strips having partition forming portions and pocket forming wings extending from said partition forming portions, said wings in one row cooperating with the wings in an adjacent row to form tortuous passageways between said partition forming portions, spacers between said rows of fins and having pockets for accommodating said wings, and means connecting the spacers.

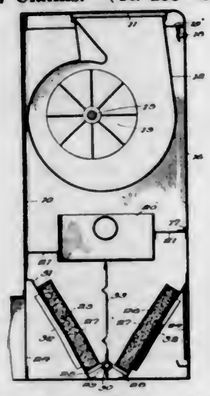
2,157,306
AMMUNITION BOX
Walter Rethel, Brandenburg (Havel), Germany, assignor to Arado Flugzeugwerke Gesellschaft mit beschränkter Haftung, Brandenburg (Havel), Germany, a German company
Application December 6, 1937, Serial No. 178,431
In Germany May 27, 1936
3 Claims. (Cl. 206—3)

3. An ammunition box for holding machine gun cartridge belts in a zigzag pile in the wings of an aircraft, said box being inserted into said wing through a relatively small opening in the surface thereof, and consisting of two end sections and a plurality of intermediate sections, each of said end sections having a bottom, two longitudinal side walls, and one outer end wall,



said intermediate sections having a bottom and two side walls, said members being flexibly connected in end to end relationship by means of hinges whereby to form a complete box having four side walls and a bottom and whereby said box may be fed into said wing through said opening.

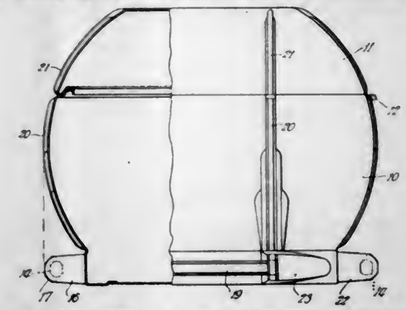
2,157,307
DAMPER AND FILTER ARRANGEMENT FOR AIR CIRCULATING UNITS
Gardner C. Savage, La Crosse, Wis., assignor to The Trane Company, La Crosse, Wis., a corporation of Wisconsin
Application June 27, 1938, Serial No. 216,095
7 Claims. (Cl. 183—39)



3. In a unit for circulating air in an enclosed space, a casing, separate air inlets in said casing for admitting air from the enclosed space and from the outdoors, said casing also having an outlet into the enclosed space, a pair of filter members adjacent the respective air inlets, means for pivoting said filter members upon a common axis, and a damper intermediate said filter members also pivoted upon such common axis, to assume various positions for regulating and controlling the air streams entering through the respective inlets.

2,157,308
CASKET
Harry S. Scholl, Chicago, Ill., assignor to F. H. Hill Company, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 21, 1937, Serial No. 121,606
3 Claims. (Cl. 27—2)

1. A burial casket of the kind described comprising a bottom and side and end walls extending therefrom, the portion of the walls adjacent the bottom providing and defining a mattress containing chamber, the walls at the sides extended both upwardly and outwardly beyond the sides of the said mattress containing chamber to provide a relatively wider body receiving chamber, the merging portions of the walls defining the



chambers providing an inset portion and handles at each side of the casket associated with and disposed adjacent the bottom, said handles underlying the side walls of the body receiving container and substantially confined within the inset portions, whereby the over-all width of the assembly is defined substantially by the walls of the body receiving chamber.

2,157,309
ADJUSTABLE SHELF BRACKET AND SUPPORTING STANDARD
Enoch Swedman and Louis Stifter, St. Paul, Minn., assignors to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application December 15, 1937, Serial No. 179,912
4 Claims. (Cl. 248—243)

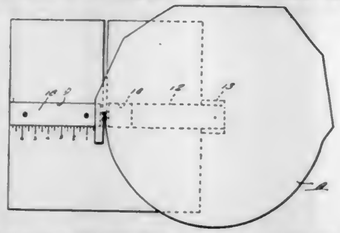


1. A shelf support comprising a standard member having an aperture therein elongated in shape, a bracket member having a shank projecting therefrom, and an elongated head on said shank of a size to fit through said aperture in said standard member, a bearing surface about said aperture against which said head may engage when turned out of registry with said opening, and shoulder means on the standard engaging the edges of said head to limit the rotative movement of said head.

2,157,310
CIRCULAR WORK ATTACHMENT
Jack Willard Ward, Nassawadox, Va.
Application March 15, 1938, Serial No. 196,085
1 Claim. (Cl. 143—171)

A circular work attachment comprising a work table having a band saw slot and provided with oppositely extending dove-tail shaped grooves arranged at opposite sides of said slot and terminating adjacent thereto and opening outwardly through opposite edges of the table, tenon-shaped blocks slidable in grooves towards and from the slot and with their upper surfaces flush with the surface of the table and one of said blocks being of elongated formation with one end projecting beyond an edge of the table, cooperating gradua-

tions on the blocks and on the adjacent edges of said grooves, centering pins carried by said blocks on which work may pivot, and a head on the under side of the projecting end of the elongated block and positioned beyond an edge of the table to act as an abutment by engagement with the table to



limit the sliding movement of said elongated block towards the slot, said centering pin of the elongated-named block being located adjacent the latter-named end of the block to always have a position laterally of one edge of the table during all adjusted positions of said elongated block with respect to the table.

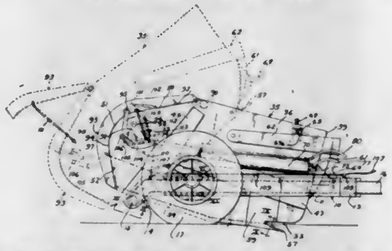
2,157,311

SCRAPER

Jacob S. Walch, Springfield, Ill., assignor to Baker Manufacturing Co., Springfield, Ill., a corporation of Illinois

Application March 13, 1937, Serial No. 130,655

14 Claims. (Cl. 37—133)



1. In a wagon scraper, a main frame including spaced side beams, a bowl pivotally mounted on the frame between the side beams, means for tilting the bowl relative to the frame for dumping material collected therein out of the rear end of the bowl, wheels supporting the side beams from the ground at points forward of the rear end of the bowl, and means for selectively positioning said wheels along the side beams to vary the degree of projection of the rear end of the bowl beyond the wheels to accommodate variable dumping conditions out of the rear end of the bowl.

2,157,312

SWITCHING ARRANGEMENT FOR HIGH FREQUENCY APPARATUS

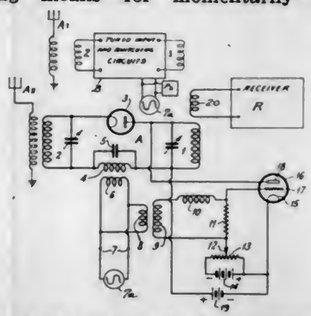
George Maurice Wright, Woodham Ferrers (Bicknacre), England, assignor to Radio Corporation of America, a corporation of Delaware

Application March 19, 1937, Serial No. 131,790

In Great Britain February 3, 1936

7 Claims. (Cl. 250—20)

1. A system of relatively high frequency switching comprising electronic switching means for switching a high frequency circuit of relatively low damping into and out of circuit connection with other apparatus, a circuit including a resistance and an inductive element connected to the control grid of an electron discharge device coupled by a transformer to said electronic switching means for momentarily applying



damping to said high frequency circuit so that the oscillations therein are quenched substantially immediately upon disconnection of said circuit by said switching means from said other apparatus.

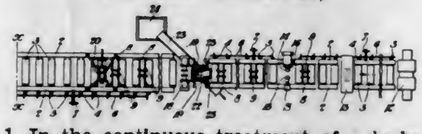
2,157,313

CONDITIONING METAL STOCK WHILE IN TRANSIT

Fred W. Alles, Glassport, and Frank N. Sarber, McKeesport, Pa., assignors to National Tube Company, a corporation of New Jersey

Application July 25, 1936, Serial No. 92,678

6 Claims. (Cl. 29—33)



1. In the continuous treatment of a body of hot metal, the steps which consist in tapering the ends of said hot metal to facilitate its entry into subsequent processing devices, skinning two sides of said shaped metal while hot, turning the shaped and skinned metal to position the unskinned sides of said metal in a line with the original pass line of said metal for skinning, all of said steps being done while said body of metal is in transit on a mill transfer table and prior to reaching a bar-mill.

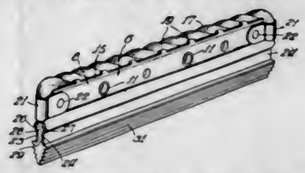
2,157,314

GLASS CLEANER

John W. Anderson, Gary, Ind., assignor to Productive Inventions, Inc., Gary, Ind., a corporation of Indiana

Application November 14, 1936, Serial No. 110,788

5 Claims. (Cl. 15—209)



1. A cleaner comprising an elongated substantially flat handle member having a groove along one of its longitudinal edge portions, an abrading material comprising a plurality of twisted fibers positioned longitudinally in said groove, and means secured to the end portions of the handle member and engaging the end portions of said fibers for securing the abrading material to said member.

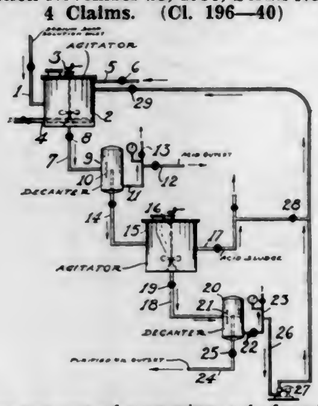
2,157,315

PROCESS OF REMOVING ASH-FORMING CONSTITUENTS FROM A RESIDUAL PETROLEUM OIL

Francis M. Archibald, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 28, 1936, Serial No. 113,103

4 Claims. (Cl. 196—40)



1. The process of removing ash-forming constituents found present in residual petroleum oils containing soaps dissolved therein which were formed in the chemical treatment of said petroleum oils with sulfuric acid followed by a wash with an aqueous solution of an alkali, which comprises contacting the residual oil containing mineral substances in solution and an acid sludge in quantities sufficient so that the separated acid is of about 45% to about 50% concentration, subjecting the mixture to heat and separating the oil and dilute acid.

2,157,316

SLIDING GROOVE LOCK

James H. Arkus, New York, N. Y.

Application January 14, 1938, Serial No. 185,054

2 Claims. (Cl. 292—147)



1. To releasably fasten together two elongated elements, normally in close parallelism with one another, a channel in one element, having a longitudinal slot in a wall thereof, a sliding member in said channel, a first nose, traveling with and secured to said sliding member and projecting therefrom through said slot, an upstanding second nose on the other one of said two elements, said first nose in its travel being adapted to engage said second nose and thereby secure the two elements to one another or to disengage the same and release said elements, a spring device in said sliding member, said spring slidably engaging a wall of said channel to steady the movement of said sliding member and to movably fix it in its various positions, said first nose being a part of said spring.

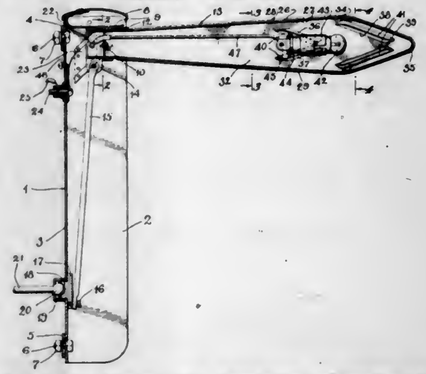
2,157,317

AUTOMOBILE DIRECTION INDICATOR

Raphael Atti, Union City, N. J.

Application April 27, 1935, Serial No. 18,503

2 Claims. (Cl. 116—54)



1. In an automobile direction indicator, the combination of two complemental sheet metal members forming a chambered housing converging into a closed outer extremity and having two opposing walls, there being two pairs of slots in each of said walls converging in the direction of the converging closed extremity formed by said members, louvers inclined to said walls and extending inwardly from the inner edges of one pair of slots, louvers inclined to said walls and extending inwardly from the outer edges of the pair of slots nearest the converging closed extremity formed by said members, and a small electric lamp bulb mounted between the converging ends of the first pair of slots and the diverging ends of the other pair of slots to enable the light rays from the lamp to be intercepted and deflected outwardly by said louvers but otherwise concealed from view substantially to prevent the passage of direct light rays from said lamp bulb to the exterior of said housing, said opposing walls being just sufficient to clear said lamp bulb.

2,157,318

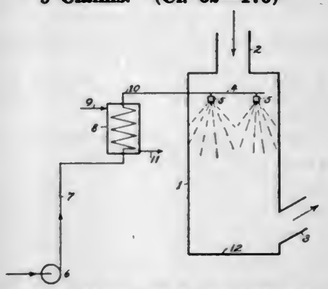
PROCESS OF COOLING GASES

Hans Baehr and Karl Braus, Leuna, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application January 16, 1937, Serial No. 120,911

In Germany January 24, 1936

5 Claims. (Cl. 62—176)



1. A process of cooling a hot gaseous medium by injecting and evaporating a liquid therein comprising injecting the said liquid in a finely distributed state and at a temperature above its boiling temperature corresponding to the pres-

sure of the gaseous medium to be cooled and below the temperature of the said gaseous medium, the quantity of said liquid being so limited that the liquid is completely evaporated.

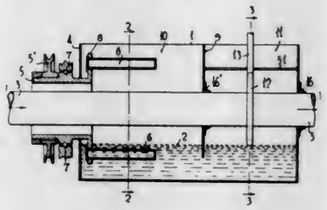
2,157,319

METHOD OF HARDENING STRUCTURES PRODUCED FROM FIBROUS MASSES DERIVED FROM ANIMAL HIDE SUBSTANCES

Oskar Walter Becker, Heidelberg, Germany, assignor to firm of Naturin Gesellschaft mit beschränkter Haftung, Weinheim, Germany

Original application October 23, 1933, Serial No. 694,904. Divided and this application April 22, 1936, Serial No. 75,901. In Germany July 21, 1933

10 Claims. (Cl. 99—176)





1. A method of hardening structures produced from fibrous masses derived from animal hide substances, which consists in subjecting the completed structures to the action of a distillate obtained from cellulose-containing substances for the purpose of hardening such structures.

3. A method of treating structures produced from fibrous masses derived from animal hide substances, which consists in first forming the structures into their final form, purifying a distillate obtained from cellulose-containing substances by the redistillation of the original distillate obtained from said substances, and subjecting said structures to the action of said distillate while maintaining said structures in their final form.

2,157,320

DETERGENT COMPOSITION CONTAINING BUFFERS

Hyym E. Buc, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 9, 1934, Serial No. 752,287

5 Claims. (Cl. 87—5)

3. Improved detergent composition comprising alkali metal salts of sulfuric acid derivatives of cracked paraffin wax distillate olefins having more than 8 carbon atoms per molecule, said salts being water-soluble and including alkyl sulfates subject to hydrolysis with development of acidity, and in admixture with said salts, 1 to 10% of a water-soluble buffer salt capable of maintaining a pH value of between about 7 and 8 in an aqueous solution of the mixture, and which does not cause a precipitate to form.

2,157,321

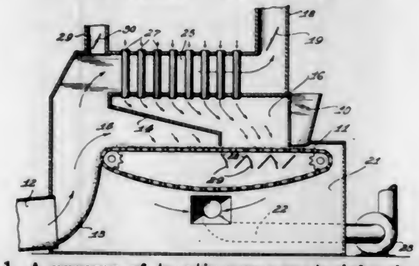
METHOD OF AND APPARATUS FOR TREATING CEMENT RAW MATERIAL AND SIMILAR SUBSTANCES

Hans Bussmeyer, Dessau, Germany

Application December 7, 1937, Serial No. 178,582

In Germany December 9, 1936

13 Claims. (Cl. 263—53)



1. A process of treating raw material prior to the burning thereof in a kiln, which includes the steps of raising the temperature of a gas isolated from the waste gases of the kiln by heat derived from the latter, passing such gas through the material to elevate the temperature of the material, thereafter contacting the waste gases of the kiln with the material to further raise the temperature of the material, and finally discharging the material into the kiln.

2,157,322

MAGNESIUM ALLOY

Fritz Christen, Zurich-Altstetten, Switzerland

No Drawing. Application March 5, 1938, Serial No. 194,221. In Switzerland December 30, 1937

1 Claim. (Cl. 75—142)

As an article of new manufacture for use in the production of magnesium alloys, a pre-alloy of the following composition:

		Percent
(1)	Aluminium	33 –40
(2)	Zinc	23.5–16.5
(3)	Copper	17.5–14.5
(4)	Manganese	3 – 6
(5)	Nickel	1 – 3
(6)	Cobalt	6 – 4
(7)	Chromium	0.5– 0.9
(8)	Molybdenum	0.5– 0.1
(9)	Magnesium (constant)	15

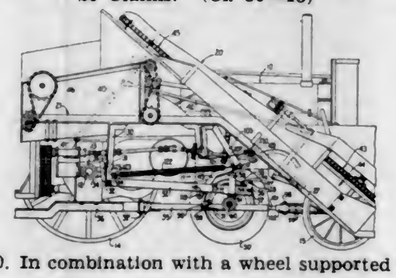
2,157,323

TRACTOR MOUNTED IMPLEMENT

Wilbur J. Coultas, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application December 28, 1937, Serial No. 182,133

20 Claims. (Cl. 56—15)



10. In combination with a wheel supported ve-

hicle frame, an attachment frame fixed thereto and movable coadunatively therewith, a fore and aft extending arm pivotally connected to one of said frames for vertical swinging movement, a wheel supporting member including a laterally extending axle connected to the free end of said arm and swingable about a generally vertical axis relative to said arm, a ground wheel journaled on said axle, a bracing member connected to said wheel supporting member and extending substantially transversely of said vehicle frame, means for swingably connecting said bracing member to one of said frames to accommodate swinging movement of said arm while bracing the later against lateral movement, and yieldable means acting downwardly against said wheel supporting member and reacting upwardly against said attachment frame for determining the weight carried by said wheel.

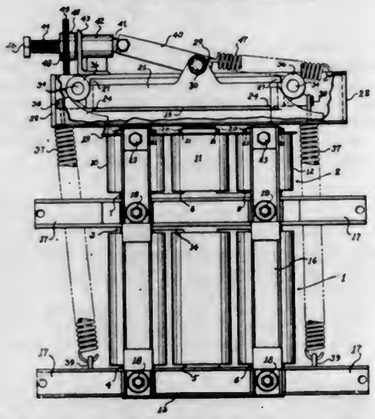
2,157,324

ADJUSTABLE MAGNETIC APPARATUS

Prescott D. Crout, Boston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application October 26, 1934, Serial No. 750,177

7 Claims. (Cl. 171—119)



1. In a magnetic apparatus, a magnetic core, means for setting up a magnetic flux in said core, said magnetic core having a variable air gap between a pole face and a movable magnetic bar, said magnetic bar being supported at four movable points, a supporting surface at each of said points, and additional means for exerting on said magnetic bar a unidirectional force tending to move said bar toward said pole face and to seat said bar firmly against said supporting surfaces, said magnetic bar having sufficient torsional flexibility to enable said magnetic bar to twist and compensate for variations in relative positions of said supporting surfaces, whereby said bar is always maintained firmly seated against said supporting surfaces.

2,157,325

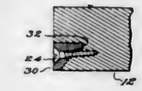
SKI

Lorenzo G. Currier, Winchester, Mass.

Application December 28, 1936, Serial No. 117,790

2 Claims. (Cl. 280—11.13)

1. A ski comprising a wooden body and an edge strip of hard material set into the body of the ski along the outer edge portion of the ski running surface rearwardly from a point adjacent the base of the upturn at the front end of the ski, said strip being generally trapezoidal in section, having a narrow snow-contacting face and a sloping inner side face, the strip adjacent the point of termination at the front end of the ski being formed with decreasing thickness transversely of said sloping inner face, the body of



the ski having a correspondingly shaped recess to receive the strip, the tapered point of the strip being bent at substantially a right angle to the rest of the strip and driven into the body of the ski, and fastening members passing transversely through the strip for securing the same to the ski.

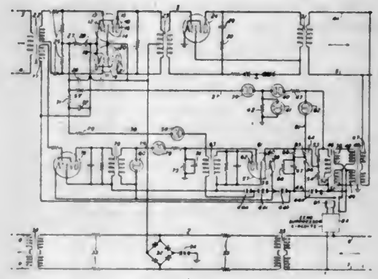
2,157,326

SIGNAL TRANSMISSION SYSTEM

Stephen Doba, Jr., Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 1, 1937, Serial No. 166,723

16 Claims. (178—44)



11. In a signal transmission system, a transmission channel, a gain control device connected to said channel, means comprising a relatively small condenser shunted by a relatively large condenser and a resistance element for governing said device to control the volume range of the signals on said channel, the smaller condenser correcting for brief changes in gain and the larger condenser correcting for prolonged changes in gain, and means controlled according to the energy level of the signals on the transmission channel for impressing a charge of one polarity on said condensers to raise the gain and for impressing a charge of opposite polarity on said condensers to lower the gain so as to control said device and maintain the volume of the signals on the transmission channel constant.

2,157,327

MATRIX MOLDING MACHINE

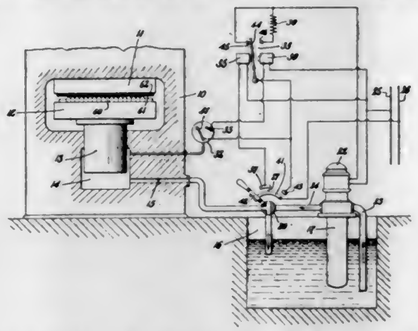
Hobart N. Durham, Manhasset, N. Y., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application March 9, 1936, Serial No. 67,810

4 Claims. (Cl. 60—52)

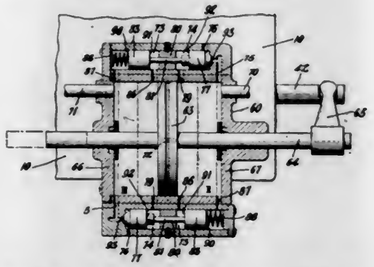
1. A matrix molding press including in combination relatively movable platens, a hydraulic plunger for moving one of the platens, a high-pressure centrifugal pump for supplying liquid to said plunger, means for driving said pump at a plurality of different speeds, a polarized relay for

controlling the driving speed, and means operated by the pump pressure for controlling said



relay to reduce the motor speed and pump pressure after a maximum pressure has been reached.

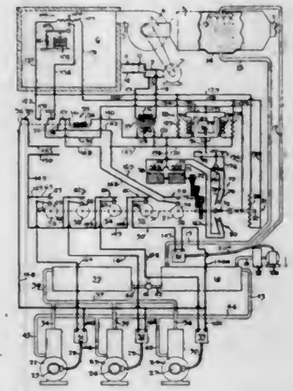
2,157,328
FLUID-PRESSURE-OPERATED GEAR SHIFTER
Hobart N. Durham, Munsey Park, Long Island, N. Y., assignor to Vaco Products, Inc., Jersey City, N. J., a corporation of Delaware
Application June 1, 1936, Serial No. 82,817
5 Claims. (Cl. 121—38)



1. In a fluid pressure operated motor, the combination of a cylinder having a piston movable therein, a valve operated by the difference in pressure between two ends of the cylinder, means normally tending to close said valve when the pressure difference is reduced, and means operated by the piston for momentarily minimizing the difference in pressure to close said valve.

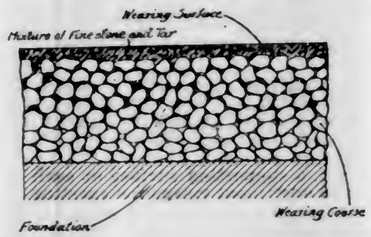
2,157,329
CONTROL SYSTEM
Francis B. Fillo, Webster Groves, Mo., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 12, 1937, Serial No. 125,419
18 Claims. (Cl. 62—4)

1. In an air conditioning system, in combination, an air conditioning chamber through which air is passed, means connecting said conditioning chamber with a space to be conditioned, cooling means in said conditioning chamber for cooling the air as it is passed through the chamber, means for supplying a cooling fluid to said cooling means including a power driven pump, means for chilling the cooling fluid comprising a compression refrigeration system including a plurality of independently driven compressors, a source of power for said pump and said compressors, sequential control means for sequentially placing said pump and said compressors in operation, condition responsive means for controlling said sequential control means, means responsive to a failure of power for placing said condition responsive means out of operation



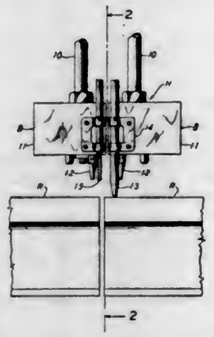
and for causing said sequential control means to be operated to disconnect said source of power from said pump and said compressors, and means actuated when said sequential controller disconnects said pump and said compressors for replacing said condition responsive means in control of said sequential control means.

2,157,330
PAVING PROCESS
Frederick S. Fleckenstein, Syracuse, N. Y., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application November 16, 1935, Serial No. 50,156
3 Claims. (Cl. 94—23)



1. A cold-lay process of building a road pavement which comprises applying a layer of clean, coarse aggregate uncoated with bitumen or a bitumen solvent to a foundation to form a wearing course, rolling the wearing course to compact the same and then applying thereover a layer of aggregate particles in a state of subdivision similar to that of sand, admixed with coal tar of a specific viscosity Engler at 40° C. of from 25 to 65 in amount such that the resultant mixture is sufficiently fluid under pressure to flow into the voids of the underlying coarse aggregate layer, and rolling the second mentioned layer to cause it to firmly bond with the underlying layer to bond the particles of the underlying layer to each other, the fine aggregate and coal tar constituting the wearing surface and binder of the pavement.

2,157,331
BLOWPIPE
Harry S. George, Massapequa, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application December 24, 1936, Serial No. 117,506
10 Claims. (Cl. 158—27.4)



1. A burner comprising a nozzle block adapted to be connected to a source of gaseous fuel a plurality of nozzles connected to said block for producing heating flames and a baffle arranged between and parallel to at least two of said nozzles and capable of removing heat from the region of intense heat adjacent said nozzles and dissipating such heat.

2,157,332
DECOMPOSITION OF SUBSTANCES CONTAINING TUNGSTEN SULPHIDE
Paul Herrmann Gericke, Hans Heinrich v. Baumbach, and Fritz Berndt, Leuna, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application August 13, 1936, Serial No. 95,844. In Germany August 17, 1935
11 Claims. (Cl. 23—22)

1. A process for the decomposition of substances containing tungsten sulphide which comprises roasting the said substances at temperatures above 600° C. and treating the roasted mass for a period of at least two hours at atmospheric pressure with aqueous ammoniacal solutions and for a sufficient period of time to dissolve a major portion of the tungsten oxide.

2,157,333
BAIT HOLDER AND HOOK
John B. Hadaway, Swampscott, Mass.
Application May 10, 1937, Serial No. 141,712
21 Claims. (Cl. 43—40)

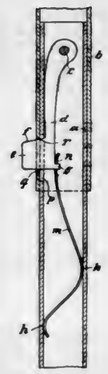


1. A bait holder comprising an impaling member for supporting the bait, and an impaling prong pivoted on the member and held from bodily movement longitudinally thereof, the prong being adapted to be embedded in the bait to secure the same on the member, the prong being shaped to have locking engagement with the member when embedded in the bait.

2,157,334
CELLULOSIC COATING
John R. Haines, Detroit, Mich., assignor to Detroit Macoid Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application December 7, 1936, Serial No. 114,622
2 Claims. (Cl. 134—79)

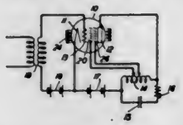
1. A fluid film-forming coating composition capable of air-drying to form a film having the appearance and density of a thermoplastic body and containing a cellulose ester in an amount of approximately 7 to 21.2% by weight and a solvent mixture composed of a suitable cellulose ester solvent having a molecular weight in excess of 80 and sufficient amounts of a relatively more volatile latent solvent to produce a vapor pressure in said solvent mixture of from 12 to 55 mm. of mercury at 25° C., said solvent mixture having balanced rates of evaporation and diffusion, the nature and amounts of said ingredients being such as to be capable of forming a coherent film under conditions of normal atmospheric temperature and pressure, which film has a thickness within the range of approximately .005 to .032 inch and is characterized by its dense substantially imperforate nature, said percentages being by weight of the film-forming components of said composition.

2,157,335
FOLDING UMBRELLA
Hans Haupt, Berlin-Zehlendorf, Germany
Application October 26, 1938, Serial No. 237,080
In Germany October 26, 1937
5 Claims. (Cl. 135—46)



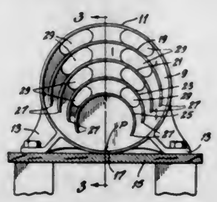
1. In a folding umbrella, a stick comprising a pair of telescoping members, a rigid latch pivotally mounted within one of said members and disposed longitudinally thereof and having a nose adapted with one edge for locking engagement with the other member, said edge being bevelled outwardly and away from a line connecting the point of engagement of said edge and the pivot of said latch, and a spring acting on said latch and tending to hold the same in locking position, the bevel of said locking edge and the force exerted by said spring on said latch being such that under normal longitudinal pressure exerted on said nose by said members the nose is held in locking position and that by additional longitudinal pressure exerted thereon the latch is pressed out of locking position.

2,157,336
ELECTRON DISCHARGE APPARATUS
Raymond A. Heising, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 6, 1937, Serial No. 119,281
15 Claims. (Cl. 179—171)



6. An amplifier comprising an electron discharge device including a cathode, a control electrode and a plurality of anodes, means for impressing a variable potential between said cathode and said control electrode, means for maintaining said control electrode at a negative potential with respect to said cathode, and an output circuit coupled to said anodes and said cathode including an impedance and means for applying constant potentials of substantially equal magnitude to said anodes, said anodes being connected to said impedance at points of different varying potential with respect to said cathode, and said impedance having such value that for a certain magnitude of said variable potential the resultant potential of one of said anodes is negative with respect to said cathode and the variable potential upon another of said anodes approximates the constant potential applied thereto.

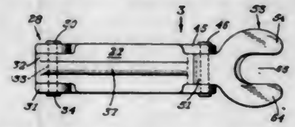
2,157,337
APPARATUS FOR ASSEMBLING STOVEPIPES
Stanley F. Jackes, St. Louis, Mo., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application January 21, 1938, Serial No. 186,105
6 Claims. (Cl. 153—32)



2. An article of manufacture comprising a member having a plurality of holding portions for a plurality of ends of pipes of various diameters to prevent expansion of the latter, each of said plurality of holding portions being adapted to hold all pipes with portions thereof arranged substantially tangent.

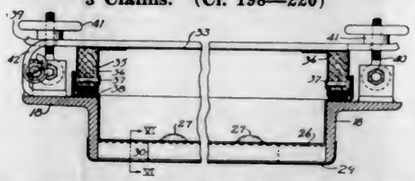
2,157,338
SPINNING ROPE PIPE TONGS
Robert H. Jackson, Orange, Calif.
Application March 10, 1937, Serial No. 130,083
2 Claims. (Cl. 81—66)

1. In spinning rope tongs in which a pair of jaws pivoted together are secured by a latch including a latching tongue having a yoke on its outer end formed of a pair of jaws spaced apart to form an outwardly opening slot and adapted to receive a rope with a knot on the end thereof, the knot being adapted to rest on the face of the latching tongue, the rope being adapted to be unwound from a tool joint or the like and when



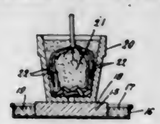
completely unwound, the rope being adapted to slip from the yoke and thereby release the latch.

2,157,339
APPARATUS FOR CONVEYING PARTICULATE MATERIALS
James H. Jeffery and Clayton B. Matt, Toledo, Ohio, assignors to Plaskon Company, Incorporated, Toledo, Ohio, a corporation of Delaware
Application May 28, 1937, Serial No. 145,308
3 Claims. (Cl. 198—220)



1. A conveyor for particulate material in which the particle sizes vary widely comprising, in combination, a substantially horizontal conveying chute having a generally planar conveying surface thickly studded with rounded projections adapted to project through a layer of fine particles and retard the flow of large particles, space for the passage of material being provided at the sides of said projections, and means for vibrating the chute to cause the material to flow along it.

2,157,340
METHOD AND MEANS FOR SUPPORTING POTTED PLANTS
Linus H. Jones, Amherst, Mass., assignor to W. Bartlett Jones, Chicago, Ill.
Application June 24, 1936, Serial No. 86,897
15 Claims. (Cl. 47—38)

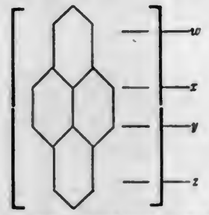


1. A foundation for porous pots for plants comprising a dish-like container for providing a pool of water, and a water-absorbent solid mat supported in said container for presenting a pot-supporting surface above the level of the pool, with its body in said pool, said supported mat being adapted to carry the weight of a potted plant.

2,157,341
VAT DYESTUFFS AND PROCESS OF MAKING SAME
Walter Kern, Sissach, Switzerland, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application July 6, 1937, Serial No. 152,271. In Switzerland July 9, 1936
6 Claims. (Cl. 260—396)

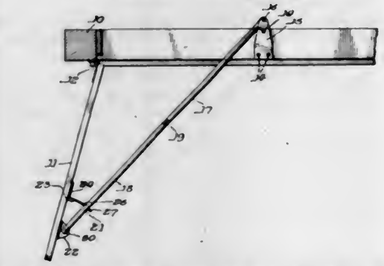
1. Process for the production of vat dyestuffs,

consisting in heating pyrenes of the general formula



wherein w, x, y and z are members of the group consisting of hydrogen, hydroxyl, alkoxy, amino and sulfonic acid, with aqueous sulfuric acid until vat dyestuffs are formed.

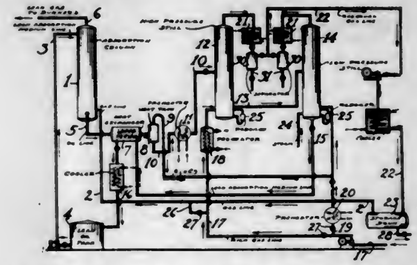
2,157,342
DOOR CHECK
Frank Kukula, Chicago, Ill.
Application June 6, 1938, Serial No. 211,999
4 Claims. (Cl. 292—263)



1. A door check comprising a pair of arms pivotally joined together by one of their ends, one of said arms being pivoted to the door frame, a bar integrally formed with the other of said arms and in an angular relation therewith, said bar being pivotally supported upon the door and being adapted for longitudinal shifting movement thereupon, and a plate mounted upon the door and in a transverse relation with said last named arm for supporting the same as the same makes shifting movement to a folded or unfolded position, said plate being provided with a notch at a point of said plate which coincides with said last named arm when the latter remains in an unfolded position for permitting said last named arm to fall therewithin due to gravity of said arm and to the drag exerted thereupon by said bar for the purpose of engaging said arm with said plate for maintaining said arm in a stationary position when the door remains opened.

2,157,343
ABSORPTION OF GASES
George L. Mateer, Roselle, and Walter H. Rupp, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application September 18, 1936, Serial No. 101,352
3 Claims. (Cl. 196—8)

3. A process for separating hydrocarbons having at least four carbon atoms to the molecule from a gas mixture containing them in addition to C_1 to C_3 hydrocarbons, which comprises passing a portion of the gas mixture into a still maintained under superatmospheric pressure in stripping relation to an absorption medium rich in hydrocarbons having at least four carbon atoms to the molecule, discharging the partially stripped oil into a lower pressure still into which the remainder of the initial gas mixture is introduced in stripping relation to the absorption medium fed thereto, whereby further quantities of hydrocarbons having at least four carbon atoms to the molecule are vaporized, subjecting the overheads from the two stills to partial condensation, feeding the combined uncondensed gas released from the overheads to the bottom of an absorption



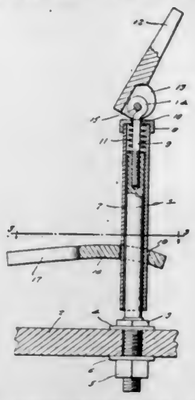
zone, feeding the lean oil from the second still to the top of said absorption zone, recovering fat oil from the bottom of said absorption zone and introducing into the first still, leading off C_1 to C_3 hydrocarbons from the top of said absorption zone and recovering hydrocarbons having at least 4 carbon atoms to the molecule in each cycle by partial condensation of the overhead from each still prior to the passage of said combined overhead to the absorption zone.

2,157,344
FLASHLIGHT TESTING DEVICE
John J. McCoy, St. Paul, and Karl G. Gerdin, Minneapolis, Minn.
Application August 28, 1935, Serial No. 38,196
2 Claims. (Cl. 175—183)



1. A receptacle construction for a flashlight having a cylindrical casing and a lamp socket of much smaller diameter disposed centrally therein comprising a member of insulating material extending partially around said casing and having a surface conforming to and engaging the cylindrical exterior surface thereof, spaced means securing said member to said casing, said member having an outer face with spaced slots extending therefrom into said member and adapted to receive the prongs of a standard electrical plug, a metallic strip disposed in said member and extending through one of said slots and casing to and engaging the side of said lamp socket, said strip being arranged to be engaged by one of said prongs and thus forming a contact for said prong and a connection to said lamp socket, a second metallic strip extending through the other of said slots and engaging said casing, the same forming a contact for the other prong of said plug.

2,157,345
CLAMP
John W. Nelson, Brainerd, Minn.
Application March 16, 1938, Serial No. 196,303
4 Claims. (Cl. 144—290)



1. A clamp comprising a post, means for securing said post to a support, a sleeve slidably mounted on said post, a jaw mounted on said sleeve, a lever mounted for swinging movement on the post, and cams on the pivoted end portion of said lever operatively engaged with the sleeve for actuating said sleeve for engaging the jaw with the work.

2,157,346
LAWN AND GARDEN TOOL
Steve Repasy, Los Angeles, Calif.
Application March 29, 1938, Serial No. 198,662
1 Claim. (Cl. 55—65)



As a new article of manufacture, a one piece lawn and garden tool comprising a strip of metal of uniform width throughout its length, the upper portion of which is bent rearwardly so as to fit conveniently in the hand of the user, said rearwardly bent upper portion being provided with a notch, a thumb-rest struck from the metal in the strip and bent forwardly from the intermediate portion of said strip, the lower portion of which strip gradually decreases in width toward its lower end, there being an inverted U-shaped notch formed at the lower end of the tapered portion of said strip and the side edges of the tapered portion of said strip and the edge of said inverted U-shaped notch being sharpened to form cutting edges and the tapered lower portion of said strip being channel-shape in cross-section.

2,157,347
PRODUCTION OF VINYL ETHERS DERIVED FROM CARBOHYDRATES
Walter Reppe and Otto Hecht, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application August 8, 1936, Serial No. 95,036. In Germany August 24, 1935
5 Claims. (Cl. 260—90)

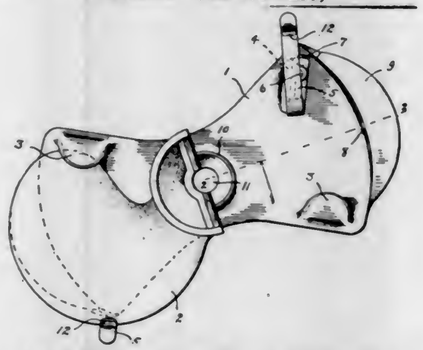
3. The polymerized mixture of the monovinyl ethers of beta-diacetone fructose and diacetone glucose.

2,157,348
PRODUCTION OF ALIPHATIC VINYL ETHERS BY MEANS OF ACETYLENE
Walter Reppe and Otto Hecht, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application September 18, 1937, Serial No. 164,498. In Germany August 24, 1935
5 Claims. (Cl. 260—488)

1. In the production of vinyl ethers from alcohols and acetylene, the step which comprises treating in the liquid phase an aliphatic alcohol with acetylene at temperatures of between 120 and 200° C. in the presence of a salt of an organic acid and a metal selected from the group consisting of zinc and cadmium.

5. Ethylene glycol acetate vinyl ether.

2,157,349
PROPELLER GOVERNOR
Michael William Rosner, St. Paul, Minn.
Application May 9, 1938, Serial No. 206,791
5 Claims. (Cl. 170—159)

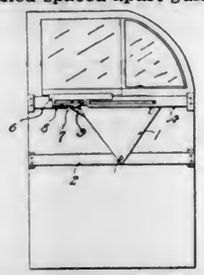


1. A speed governor for screw propellers comprising in combination a plate, means carried by said plate for removable engagement with the edges of the blades of said propeller, a stepped arcuately shaped blade rest extending outwardly from the face of and beyond the periphery of said plate.

2,157,350
AUTOMOBILE DOOR GLASS CONTROL
Leslie C. Ruska, Cicero, Ill.
Application November 25, 1936, Serial No. 112,696
2 Claims. (Cl. 268—126)

1. In combination with a vehicle door having

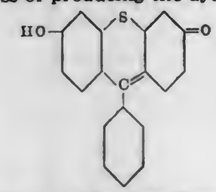
an upper opening and a slidable window panel therein adapted to close said opening, a pair of spaced apart transversely extending guide bars adjacent the lower edge of said opening, said guide bars having opposed slots therein; a transversely extending supporting bar secured below said guide bars; a glass engaging member on the lower edge of the slidable window panel; a pivotal member pivoted adjacent one of its edges on said lower bar and adapted to be pivoted between said first mentioned spaced apart guide bars; a trans-



versely extending pin on said pivotal member, said pivotal member having a downward slot spaced apart from its pivot, said pin being adapted to engage said glass engaging member; a bumper formed integral with said pivotal member and adapted to engage the lower edge of said glass engaging member when said pivotal member is moved to substantial window panel closing position; and handle means extending through said guide bar slots and through said pivotal member slot.

2,157,351
SENSITIZING DYES FOR PHOTOGRAPHIC EMULSIONS
Wilhelm Schneider and Ernst Bauer, Dessau in Anhalt, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York
No Drawing. Application December 26, 1935, Serial No. 56,240. In Germany December 28, 1934
10 Claims. (Cl. 260—328)

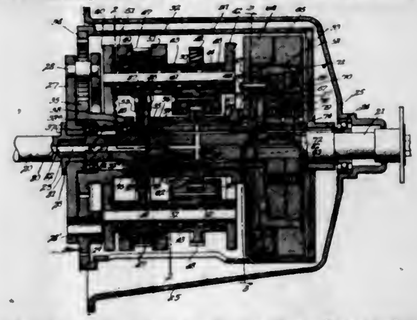
1. A process of producing the dye



which comprises condensing dihydroxydiphenyl sulfide with the equivalent proportion of benzotrichloride with the application of heat.

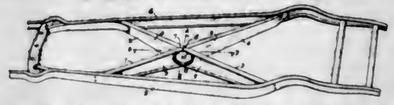
2,157,352
POWER TRANSMISSION MECHANISM
Edward T. Shaw, Pittsfield, Mass., assignor to Shaw Transmission Co., Pittsfield, Mass., a corporation of Massachusetts
Application February 18, 1935, Serial No. 7,120
28 Claims. (Cl. 74—260)

1. Means for transmitting rotary motion, said means including a rotary automatically variable torque speed converter, comprising a plurality of sun gears, duplicate systems of eccentrically-weighted planet pinions engaged with said sun gears respectively, the planet pinions of each system being in equi-phase relation, and lost motion interlocking means connecting the sun gears and limiting their relative movement whereby to



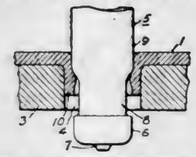
establish within certain limits the phase relation of the systems of planet pinions with respect to each other.

2,157,353
X-BAR FOR AUTOMOBILE FRAMES
Donald W. Sherman, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application October 30, 1936, Serial No. 108,322
4 Claims. (Cl. 280—106)



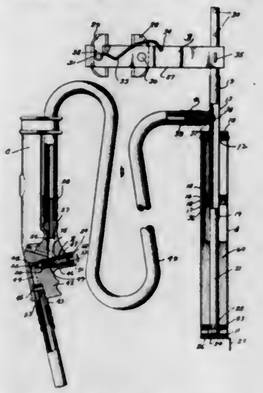
1. In an automobile frame, an X-bar the arms of which have vertical webs and upper and lower horizontal flanges, said flanges having their inner ends cut at an angle and meeting to provide a butt welded joint therebetween forming a single unitary structure, said vertical webs being cut out at their meeting ends to provide a longitudinal opening through the center of said X-bar, and being welded together at their meeting end edges above and below said opening, and the arms of said X-bar being in substantial alignment across the center joint to provide for the transmission of stress from one arm directly to the one diagonally opposite.

2,157,354
EMBOSSING METAL PLATES
Donald W. Sherman, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application February 11, 1938, Serial No. 189,925
3 Claims. (Cl. 29—148)



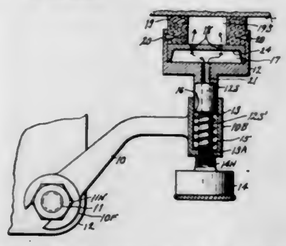
1. The method of producing a tubular embossment of substantial length upon plate metal comprising providing a relatively small hole in the plate stock and applying male and female die members having a clearance less than the thickness of the stock, and extruding the metal ahead of the male die member to prevent excessive stress on the metal at the edge of said hole as the metal is flowed to form the embossment.

2,157,355
PEDAL DEPRESSOR
Jacob L. Shroyer, Oak Park, Ill.
Application June 9, 1937, Serial No. 147,179
12 Claims. (Cl. 74—512)



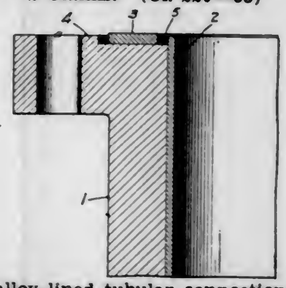
1. In a brake pedal depressor of the type wherein a cylinder and piston rod are relatively moved by a fluid under pressure admitted to the cylinder, characterized by a liquid column in the cylinder which acts against one head of the cylinder responsive to fluid admitted to the cylinder to separate said piston and said one head to depress a pedal, and further characterized by means immersed in the liquid to dampen the action of the liquid column with respect to the relative movements of the cylinder and piston rod.

2,157,356
BACK MOLD WIPER
William H. Sibley, St. Paul, Minn.
Application January 29, 1938, Serial No. 187,693
1 Claim. (Cl. 199—62)



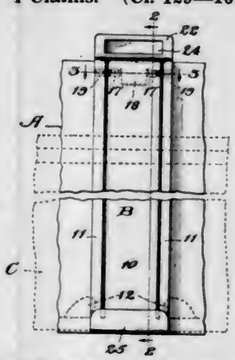
A back mold wiper comprising a bracket removably securable rigidly to a fixed element adjacent to the back face of a mold disk, a horizontally disposed tubular bearing comprising an integral part of said bracket, a mold wiper member reciprocally and slidably mounted in said bearing, said wiper member comprising an enlarged head of cup like form forward of said bearing and opening toward the mold disk, a one-piece mold disc contacting pad retained in the open end of said head and protruding therefrom, spring means pressing said head and pad forwardly, a source of lubricant and means of conducting same under pressure into and through said head, and into the wiper pad, and a flanged spacing washer within the bore of said head to hold the wiper pad in predetermined exposed position and simultaneously provide a lubricant reservoir, a number of apertures arranged in alinement in said washer, said wiper pad provided with transverse passage means registering with said aperture for the purpose set forth.

2,157,357
ALLOY-LINED TUBULAR CONNECTION FOR VESSELS
Stephen Straty, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 15, 1936, Serial No. 79,936
2 Claims. (Cl. 220—63)



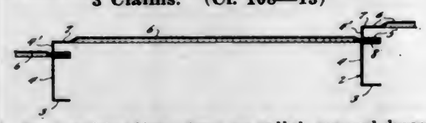
2. An alloy-lined tubular connection comprising a flanged tubular part of a composition tending to corrode in service and having its flanged end recessed at the inner circumference to receive an alloy seat, a continuous tubular alloy lining secured in said part and extending beyond the recessed end of the part a predetermined distance, an alloy ring plate disposed in said recess and welded at its outer circumference to the end of said part, said plate extending beyond the end of said part a predetermined distance to form a seat at the flanged end of the tubular connection for providing a fluid-tight joint and being substantially concentric with said liner and spaced radially therefrom, and alloy weld metal deposited in the radial space thus provided and welding the tubular part, the liner and the ring plate together.

2,157,358
INDEX CARD CARRIER
Frederick L. G. Straubel, Green Bay, Wis., assignor of one-eighth to O. C. Straubel, Green Bay, Wis., and two-eighths to C. W. Straubel, Youngstown, Ohio
Original application September 1, 1936, Serial No. 98,988. Divided and this application June 30, 1937, Serial No. 151,288
4 Claims. (Cl. 129—16.7)



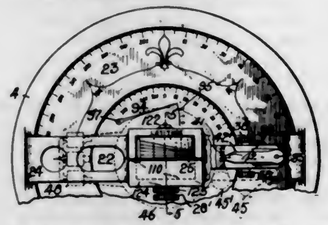
4. A carrier for index cards comprising an elongated strip of sheet material having index card retaining side edge formations with which index cards are slidably engageable, a hook formation at the top of said strip for engagement with the top portion of a panel element to suspend said strip from the panel element, a clip pivoted to said hook formation and having a portion for engagement with the panel element to retain said strip on the panel element, spring means tending constantly to rotate said clip in a direction to cause said panel engageable portion thereof to engage the panel, and a formation on said clip for finger engagement to effect releasing rotation thereof in the opposite direction.

2,157,359
BUILDING CONSTRUCTION
Samuel F. Tapman, Richmond Hill, N. Y.
Application June 19, 1936, Serial No. 86,044
3 Claims. (Cl. 108—13)



1. In combination, two parallel spaced beams of sheet material, each beam having in its face a recess extending back from its face and disposed adjacent the upper edge of the beam, the sheet material of one beam being bent back from the face of the beam at said upper edge thereof in a continuous sheet extending to the other beam and having its edge portion disposed substantially in the plane of the sheet and located in the recess in the face of said other beam to close the space between the beams.

2,157,360
CORRECTION DEVICE FOR GYROCOMPASSES
Norman W. Thompson, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application July 28, 1936, Serial No. 92,951
15 Claims. (Cl. 33—226)



7. In a gyro compass, air pressure means for controlling the meridian seeking torque thereto, and means for maintaining a constant period for different latitudes, including means for varying said pressure in accordance with a function of the latitude.

2,157,361
MOTOR VEHICLE LIGHT
Lester Urge, Youngstown, Ohio
Application April 13, 1936, Serial No. 74,181
2 Claims. (Cl. 240—7.1)

1. In a headlight for a motor vehicle, a tubular casing having an elliptically shaped front opening and inturned edges defining said front opening, the rear of said casing sloping upwardly and rearwardly to conform to the lines of the top of the said motor vehicle, a reflector mounted within the casing, the central portion of said reflector being bent to form a rearwardly extending flange, a bulb mounted on the reflector, an outwardly projecting elliptically shaped convex lens carried by the front opening of said tubular casing, a strap support extending transversely across the tubular casing and having an annular flange mounted thereon, said strap portion and flange

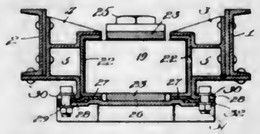


containing an aperture through which passes a wire to furnish current to the said bulb, and a spiral spring mounted on the said flange and interposed between the said support and the reflector and bearing against the centrally located flange on the rear of the reflector for urging the reflector and lens outwardly against the inturned edges of the casing.

2,157,362
PROCESS OF PRODUCING URETHANE SUBSTANCES CONTAINING CARBOXYL OR SULPHONIC ACID GROUPS
Heinrich Ulrich and Paul Koerding, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application November 3, 1936, Serial No. 108,976. In Germany November 8, 1935
14 Claims. (Cl. 260—100)

1. The process of producing urethane substances suitable as assistants in the textile and related industries containing at least one acid group which comprises causing an amino acid containing an acid group selected from the class consisting of carboxylic, sulphonic and sulphuric ester groups containing at least one hydrogen atom connected to a nitrogen atom to react with a chlorocarbonic acid ester of an alcohol selected from the class consisting of resin alcohols and hydrogenated resin alcohols produced by the carboxylic reduction of natural resin acids.

2,157,363
DRAFT RIGGING
Herbert E. Van Dorn, Chicago, Ill., assignor to The Dornvan Corporation, a corporation of Illinois
Application October 31, 1936, Serial No. 108,573
6 Claims. (Cl. 213—51)



1. In a railway car draft apparatus, a spring unit including front and rear followers, cap-like retaining members extending lengthwise of and fitted upon said unit at opposite sides thereof and holding said unit under an initial compression, a supporting structure having abutments against which the front ends of said retainers

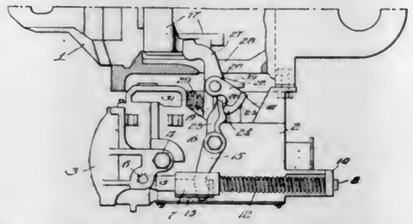
bear and other abutments located at some distance behind said retainers, detachable filling means in the space between the rear ends of the retaining members and the rear abutments, and a draft device means cooperating with said followers.

2,157,364

DOOR OPERATING MEANS FOR ELECTRIC COUPLERS

Herbert E. Van Dorn, Chicago, Ill., assignor to The Dornvan Corporation, a corporation of Illinois

Application July 19, 1937, Serial No. 154,404
9 Claims. (Cl. 173—332)



1. In combination, a car coupler of the type that has a locking dog movable between a locking position and an unlocking position and serving to engage a member on a companion coupler to hold the two couplers together, an electric coupler provided with a door mounted on the under side of the car coupler, and door-operating mechanism mounted on the electric coupler and including a member projecting upwardly into the path of said dog and adapted to be engaged by the same and driven in the direction to cause the door to open when the dog is moved to unlock the car coupler.

2,157,365

PROCESS FOR PRODUCING 1,4-ETHYLENIC GLYCOLS

Thomas H. Vaughn, Niagara Falls, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application November 6, 1936, Serial No. 109,444
17 Claims. (Cl. 260—635)

1. Process for producing a 1,4 ethylenic glycol, which comprises hydrogenating a 1,4 acetylenic glycol in the presence of a nickel catalyst activated with a caustic alkali, thereby converting the acetylenic glycol to the corresponding ethylenic glycol, and completing the said conversion while substantially preventing further hydrogenation of the ethylenic glycol.

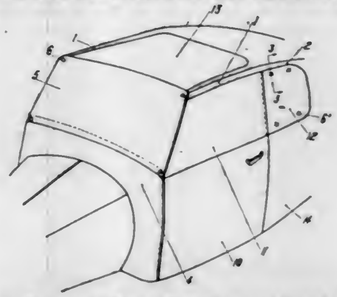
2,157,366

CLOSED BODY FOR AUTOMOTIVE VEHICLES

Joseph Jean Pierre Vigroux, Ivry-sur-Seine, France

Application December 9, 1937, Serial No. 178,852
In France December 10, 1936
5 Claims. (Cl. 296—44)

1. A body for automotive vehicles provided with a frameless windshield attached to the roof and the dash-board and with a plurality of transparent side panel sections substantially supported by the side doors and walls of said vehicle, comprising in combination a set of movable side door windows, and a set of side glass plates adjacent said windows, said windows and plates forming parts of said sections, said plates being resiliently and detachably secured to said roof and said side walls, each of said windows adapted



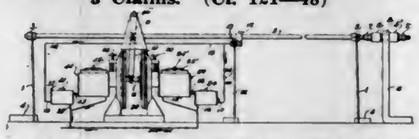
to abut the rear face of said windshield and the front edge of its contiguous plate.

2,157,367

PNEUMATIC VIBRATING MECHANISM

Sterling W. Warner, Somerville, and Lynn B. Case, New Brunswick, N. J., assignors to John Waldron Corporation, New Brunswick, N. J., a corporation of New Jersey

Application March 12, 1936, Serial No. 68,568
3 Claims. (Cl. 121—48)



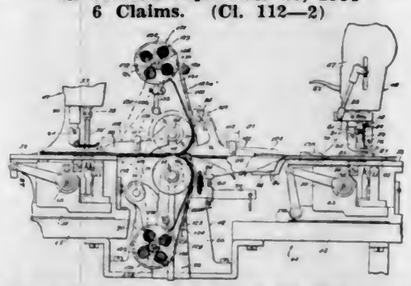
1. A device of the character described comprising a pair of lightweight resilient bars supported at one end, a reciprocatory rod fixed to the free ends of said bars for simultaneous movement therewith, pneumatic means for effecting reciprocation of said rod, suction-producing means connected to said pneumatic means, a vent to atmosphere communicating with said suction-producing means, a third lightweight resilient member supported at one end, a duct fixed to the free end of said member and constituting a vent to atmosphere communicating with said suction-producing means and a plate mounted on said bar to close said vent in one position of said rod.

2,157,368

MACHINE FOR FORMING SEAMS

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application November 10, 1934, Serial No. 752,457
In Canada September 28, 1934
6 Claims. (Cl. 112—2)



1. In one machine for sewing and taping a seam in a single handling the combination of a first sewing mechanism for stitching two superposed plies to form a first seam with seam margins;

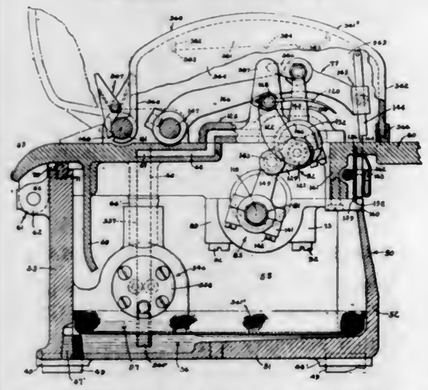
means for spreading and turning the lower ply to substantially the plane of the upper ply, and for moving said seam margins above the main plies; means for guiding a pair of tapes to the top and bottom of the first seam; a second sewing mechanism for sewing the pair of tapes to the plies; channel means for accurately guiding the stitched plies from the first to the second sewing mechanism; and driving mechanism for operating said first and second mechanisms in timed relation.

2,157,369

SEWING MACHINE

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application March 16, 1935, Serial No. 11,488
53 Claims. (Cl. 112—123)



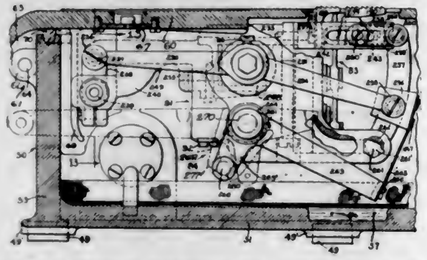
1. In a sewing machine the combination of a main driving mechanism; a sewing mechanism; a needle rocking shaft in said sewing mechanism; a needle carrier fixed to said rocking shaft, for reciprocating the needle in a curved path; a trimming mechanism including a cutter; a pivoted cutter carrier in said trimming mechanism and means connecting said rocking shaft to said movable cutter carrier, located between the pivot for said cutter carrier and said cutter for coordinate operation of said cutter carrier and said needle carrier.

2,157,370

FEEDING MECHANISM FOR SEWING MACHINES

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application June 21, 1935, Serial No. 27,773
21 Claims. (Cl. 112—209)



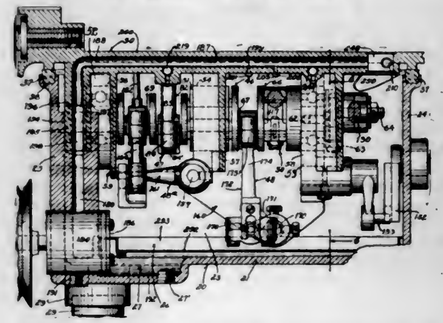
5. In a sewing machine the combination of a frame; a top plate; a suspended bracket on the top plate; a stitch forming mechanism; a presser device; driving means; a feed dog carrier; a primary feed dog secured to said carrier; a secondary feed dog; a link connection between said bracket and carrier; a second link connection between said bracket and the secondary feed dog; an adjustable eccentric; a crank extending from said eccentric to the second link connection; and a shiftable connection between said crank and the second link connection.

2,157,371

LUBRICATING SYSTEM FOR SEWING MACHINES AND PARTS THEREOF

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application November 18, 1935, Serial No. 50,460
10 Claims. (Cl. 112—256)



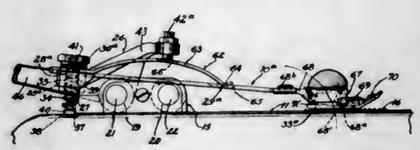
1. In a sewing machine the combination of a main frame forming an oil reservoir; a work plate on said main frame; a pump; main driving mechanism supported by said work plate; ducts integral with said work plate and associated with said pump adapted to direct oil onto the main driving mechanism underlying said work plate; a chamber associated with said ducts; and a member underlying and sealing said chamber and adapted to conduct oil therefrom to parts of the driving mechanism.

2,157,372

PRESSER FOOT DEVICE

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application June 24, 1936, Serial No. 86,922
34 Claims. (Cl. 112—235)



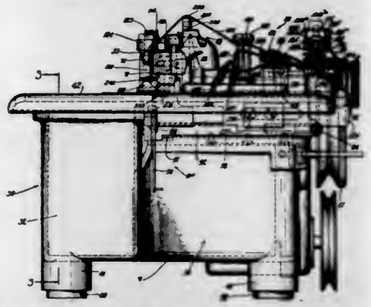
1. A sewing machine presser foot mechanism cooperable with a feed dog, including in combination a pivotally supported carrier; a carrier arm in the form of a spring strip secured to and movable with said carrier and having a free end; a presser foot on said carrier arm; and spring means associated with said pivotally supported carrier to urge the latter and the presser foot toward the feed dog.

2,157,373

THREAD HANDLING DEVICE FOR SEWING MACHINES

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application December 29, 1936, Serial No. 118,061
25 Claims. (Cl. 112—162)



1. In an overedge sewing machine the combination of sewing mechanism including a movable needle, lower looper and an overedge looper; feeding mechanism; means for guiding three threads separately to the needle, lower looper and the overedge looper; only one movable take-up member associated with said last named means for operation on said threads; and driving mechanism for operating said sewing mechanism, feeding mechanism and the one movable take-up member concurrently.

2,157,374

TRUSSED PLATE STRUCTURE

Edward H. Wells, Jr., New York, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application September 28, 1936, Serial No. 102,958
11 Claims. (Cl. 72—116)



10. A trussed plate structure comprising pairs of spaced, rigid sheets arranged side to side, means connecting the sheets within each pair and including portions for anchoring surfacing material, and connections between adjacent pairs of sheets, said connections including means for anchoring surfacing material.

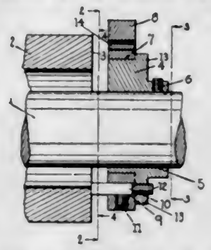
2,157,375

FACING TOOL FOR STUFFING BOXES AND THE LIKE

Christopher Wiessner, Kalamazoo, Mich., assignor to Dumetallic Corporation, Kalamazoo, Mich.

Application August 21, 1937, Serial No. 160,253
12 Claims. (Cl. 82—1)

1. A tool for machining the face of a stuffing box or similar member, comprising a collar adapted to be clampingly engaged in mounted position with a shaft normally extending through said stuffing box, said collar having a land thereon eccentric of said shaft in mounted position, an annular tool holder surrounding and slidably associated with said land, said collar having a peripheral flange adjacent said land acting as a lateral stop for said tool holder, said tool holder having a cutter receiving opening therein and a plurality of threaded keeper openings disposed in an arc circumferentially of the tool holder, said flange having an opening adapted to be brought selectively into alinement with said keeper openings by rotation of the tool holder on said land, a bolt extending through said flange opening for selective engagement with one of said keeper openings, a cutter element in said



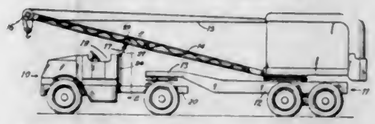
cutter receiving opening, and a set screw for clamping the cutter in place, said cutter being shiftable to different positions radially of the shaft by shifting of the tool holder on the land whereby successive rotations of the shaft cause successive radially stepped and overlapping cuts to be made on the end face of the stuffing box by the cutter.

2,157,376

SEMITRAILER LOAD HANDLING MACHINE MECHANISM

Roy H. Zeilman, Lorain, Ohio, assignor to Thew Shovel Company, Lorain, Ohio, a corporation of Ohio

Application February 3, 1937, Serial No. 123,828
5 Claims. (Cl. 224—29)



5. A guide and support means for a boom during transit comprising an element adapted to be pivotally secured to a truck to rotate about an axis extending transversely of the truck, a saddle for supporting the boom spaced a substantial distance from said axis, means for securing the boom to the saddle, and a bearing intermediate the element and saddle, comprising confronting curved surfaces relatively rotatable whereby the boom may have limited universal rocking movement relative to the element.

2,157,377

ELECTRIC CABLE

George W. Zink, Stratford, Conn., assignor to Phelps Dodge Copper Products Corporation, New York, N. Y., a corporation of Delaware

Application January 21, 1937, Serial No. 121,396
6 Claims. (Cl. 174—24)



1. A portable welding cable comprising a water pervious internally water-cooled conductor of loosely stranded fine copper wires and water-impervious rubber insulation over the conductor.

2,157,378

FREELY FLOWING SUSPENSIONS OF PIGMENTS AND OTHER PARTICLES

Victor R. Abrams, East Orange, N. J., assignor to Sulfo Corporation of America, a corporation of Georgia

No Drawing. Application June 10, 1936, Serial No. 84,589. In Japan October 18, 1935
23 Claims. (Cl. 134—58)

1. A freely flowing pigment suspension for coating purposes comprising an organic liquid vehicle, in which hydrognated castor oil wax is lyophilic and relatively insoluble at room temperature and thereabouts, containing finely divided solvated hydrogenated castor oil wax particles of an an elastic gel nature, and finely divided pigment particles distributed therethrough and suspended by said solvated wax particles, the wax being in amount sufficient to stably suspend said pigment particles without preventing free flow at room temperature and thereabouts.

2,157,379

SUSPENSIONS FOR LUBRICATING AND OTHER PURPOSES

Victor R. Abrams, East Orange, N. J., assignor to Sulfo Corporation of America, a corporation of Georgia

No Drawing. Original application June 10, 1936, Serial No. 84,589. Divided and this application July 19, 1938, Serial No. 220,127
12 Claims. (Cl. 87—9)

1. A freely flowing lubricant especially adapted for use under extreme-pressure and/or high temperature conditions, comprising a mineral oil vehicle gelled with a small amount of hydrogenated castor oil wax, constituting a discontinuous gelatinous mass containing finely divided gel particles and possessing the property of gelcosity, and finely divided sulfur particles of greater than colloidal size distributed therethrough in an amount to function as a lubricating ingredient and be stably suspended therein.

2,157,380

SUSPENSIONS FOR COATING AND OTHER PURPOSES

Victor R. Abrams, East Orange, N. J., assignor to Sulfo Corporation of America, a corporation of Georgia

No Drawing. Original application June 10, 1936, Serial No. 84,589. Divided and this application July 19, 1938, Serial No. 220,128
9 Claims. (Cl. 134—39)

1. A freely flowing pigment suspension for coating purposes comprising an organic liquid alkyl hydroxide, in which hydrogenated castor oil wax is lyophilic and relatively insoluble at temperatures below 40° C., containing finely divided pigment particles of greater than colloidal size and finely divided particles of hydrogenated castor oil wax solvated by the vehicle and present in sufficient amount to stably suspend said pigment particles without preventing free flow.

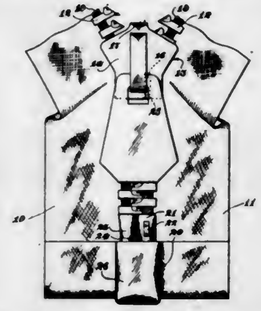
2,157,381

SEPARABLE FASTENER

Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania

Application April 9, 1937, Serial No. 135,986
2 Claims. (Cl. 24—205)

1. In a separable fastener of the class described, a pair of fastener stringers, cooperating series of fastener elements on the edges of said stringers, and a slider movable over the elements for opening and closing the fastener, and a separable end connection for said stringers adjacent the end of said series of elements, said connection comprising a socket member on one stringer and a pin member on the other stringer, said pin member being insertable through the slider into engagement with said socket when the slider is in its limiting position against said socket, and



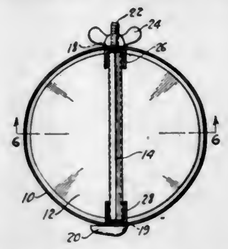
means for retaining said slider in said limiting position which comprises a member of sheet material surrounding said stringer adjacent said socket and which is received in the slider channel when the slider is moved against said socket, said member having embossed projections thereon, and the interior of said slider having recesses into which said projections scoop to maintain the slider in its limited position for easy reinsertion of the pin member.

2,157,382

DAMPER CONSTRUCTION

Joseph F. Coventry, Toledo, Ohio, assignor to Joal Manufacturing Corporation, Toledo, Ohio, a corporation of Ohio

Application March 9, 1938, Serial No. 194,785
11 Claims. (Cl. 126—292)

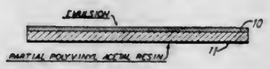


1. In combination, a valve for regulating the flow of fluids through a conduit including an operating shaft having a portion of non-circular configuration and extending transversely of the conduit and having portions projecting outside of the wall thereof; a substantially uniplanar member located within said conduit having a portion conforming with the non-circular configuration of said shaft for positioning the same with respect thereto; an element carried by the operating shaft within the conduit and arranged to rotate with said shaft, said element having a slot to receive a peripheral portion of said member for connecting said member to said shaft; and means coacting with an exteriorly projecting portion of said shaft for locking said valve in position.

2,157,383
LEAD ALLOY
François Cuvelliez, Hoboken, near Antwerp, Belgium, assignor to Société Générale Métallurgique de Hoboken, Hoboken, near Antwerp, Belgium
No Drawing. Application August 2, 1938, Serial No. 222,670. In Great Britain October 15, 1937
1 Claim. (Cl. 75—166)

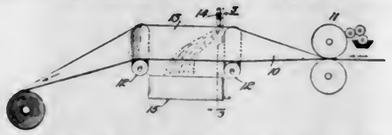
A compact lead alloy, to be used more particularly against corrosion by chemical agents, consisting of from 0.3 to 13% of antimony, from 0.2 to 5% of mercury, and lead for the rest.

2,157,384
PHOTOGRAPHIC FILM BASE
Joseph G. Davidson, Scarsdale, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application November 7, 1936, Serial No. 109,667
13 Claims. (Cl. 95—9)



6. A non-explosive, slow-burning photographic film base having the properties of toughness, clarity and retention of flexibility with age in an unusual degree, said film base comprising a partial polyvinyl acetal resin in which the polyvinyl alcohol has been acetalized from about 33 percent to about 80 percent.

2,157,385
METHOD OF PRINTING
Albert E. Gessler, Ardsley-on-Hudson, and Albert F. Guiteras, New York, N. Y., and Charles F. Clarkson, Philadelphia, Pa., assignors to Interchemical Corporation, a corporation of Ohio
Application July 25, 1935, Serial No. 33,078
23 Claims. (Cl. 101—416)

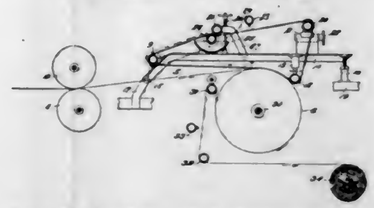


1. The method of setting a printing ink whose vehicle comprises a binder dissolved in a solvent which is stable on the press, which consists in diluting the solvent of the ink on the printed matter with a more volatile non-solvent to precipitate the binder, and removing the greater part of the mixture of solvent and non-solvent from the precipitated binder before evaporation of the non-solvent.

2,157,386
HYDROGENATION OF NITROHYDROXY COMPOUNDS
Kenneth Johnson, Terre Haute, Ind., assignor to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana
No Drawing. Application August 19, 1937, Serial No. 159,869
11 Claims. (Cl. 260—584)

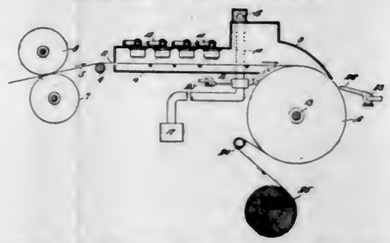
1. In a catalytic process for the direct hydrogenation of aliphatic hydroxynitrohydrocarbons to amino compounds, the improvement which comprises effecting the reaction in the liquid phase at a temperature from about 15° C. to about 165° C.

2,157,387
METHOD OF SETTING COLORING AND COATING COMPOSITIONS
Charles J. MacArthur, Glen Ridge, N. J., assignor to Interchemical Corporation, a corporation of Ohio
Application January 22, 1937, Serial No. 121,832
10 Claims. (Cl. 101—416)



1. A method of setting a printing ink and the like, including a solid component and a solvent therefor, which comprises diluting the ink on the printed material with a fluid which is miscible with said solvent and which is a non-solvent for said solid component, supporting the printed material substantially throughout its entire treated area during the diluting operation and removing substantially all the diluting fluid while the printed material is so supported.

2,157,388
METHOD OF PRINTING AND SETTING A PRINTING INK
Charles J. MacArthur, Glen Ridge, N. J., assignor to Interchemical Corporation, a corporation of Ohio
Application January 22, 1937, Serial No. 121,833
10 Claims. (Cl. 101—416.1)



1. Method of setting a printing ink and the like containing a binder and a solvent, which comprises heating the ink on the printed material to remove solvent therefrom, and applying to the printed material a moistening fluid which is miscible with said solvent and which is a non-solvent for the binder.

2,157,389
SPECTROPHOTOMETRY
Robert Hiram Park, Short Hills, N. J., assignor to The Calco Chemical Company, Inc., Bound Brook, N. J., a corporation of Delaware
Application January 14, 1938, Serial No. 184,917
5 Claims. (Cl. 234—1.5)

5. A differential recording spectrophotometric system comprising monochromating means for passing bands of monochromated light of equal wave length through two photometric systems of the flickering beam type, each system being provided with a rotating photometering element driven by an electric motor actuated from amplified flicker frequency current through a drive

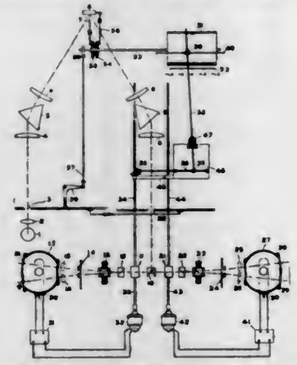
of varying ratio so that the movement of the motor shaft is in proportion to the ratio

$$\frac{A_1-A_2}{1-A_1}$$

where A_1 is the fraction of incident light absorbed by a colored standard and A_2 is the fraction of light absorbed by a colored sample, in the case of the first system and the ratio of

$$\frac{1-A_1}{1-A_0}$$

where A_1 is the fraction of light absorbed by a similar colored standard and A_0 is the fraction of light absorbed by a white standard, in the case of the second system, splines on one of the motor shafts, a bevel gear movable on but keyed to the splined portion of the shaft, a bevel pinion meshing with said gear and driving a threaded shaft at right angles to the splined shaft, said shaft being journaled in a movable frame and con-



taining a movable nut thereon, the second movable shaft being provided with a threaded portion, the frame having an arm journaled on the splined shaft but not keyed thereto and carrying a nut on the threaded portion of the second shaft, a drum for carrying a recording surface having its axis parallel to the threaded shaft driven by beveled gears, said drum having driving connection with the monochromating means so that the rotation of the drum is in proportion to the travel of the bands of monochromated light through the spectrum, a rigidly mounted frame parallel to the surface of the drum and spaced a short distance therefrom, a supporting stylus movable along said frame and engaging the recording surface, a bushing attached to said stylus and capable of rotating thereon about an axis perpendicular to the axis of the drum, a rod journaled in said bushing, a fulcrum on the movable frame, the rod passing through the fulcrum and being attached to the nut on the threaded shaft driven by the beveled gears.

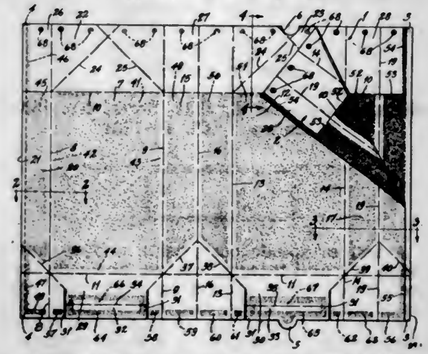
2,157,390
METHOD FOR MAKING CAST IRON
William J. Priestley, New Rochelle, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application January 25, 1937, Serial No. 122,235
9 Claims. (Cl. 75—58)

1. Method of increasing the strength of cast iron which comprises adding to a molten cast iron an unbonded intimate mixture containing 25% to 75% carbon and at least one element selected from the group consisting of silicon and zirconium, the amount of said mixture added being between one and sixteen ounces for each 100 pounds of molten cast iron; and casting the melt.

2,157,391
CATALYTIC REDUCTION OF NITRO COMPOUNDS
Byron M. Vanderbilt, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application August 13, 1937, Serial No. 158,960
15 Claims. (Cl. 260—584)

1. In a process for the catalytic hydrogenation of aliphatic nitro compounds to the corresponding primary aliphatic amine, the improvement which comprises effecting the hydrogenation in the presence of carbon dioxide at temperatures below which the carbonates of the basic nitrogen compounds are unstable.

2,157,392
BAG
Russell J. Williams, St. Louis, Mo., assignor to Bemis Bro. Bag Co., St. Louis, Mo., a corporation of Missouri
Application September 9, 1937, Serial No. 162,989
7 Claims. (Cl. 229—55)

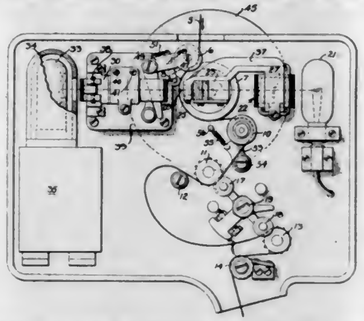


1. A multi-ply bag comprising relatively flexible individual plies, said bag having a rectangular form when expanded, providing a front panel, a back panel and side panels, each ply being continuous around the girth of the bag, areas of stiffening adhesive between the plies substantially through the entire areas of said front, back and side panels, and folded top and bottom closures for said bag, said closures being provided with flexible, and foldable regions in suitable locations for folding the closures to closing positions and being formed from plies which are also continuous with the plies in the girth portion of the bag.

2,157,393
CONSTANT SPEED FILM DRIVE
William A. Black, Montclair, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 14, 1936, Serial No. 90,560
7 Claims. (Cl. 271—2.3)

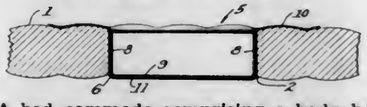
1. A constant speed film drive comprising a continuously rotatable sprocket subject to variations in speed, a drum adapted to be rotated by film passing thereover, a flywheel for stabilizing the movement of said drum, and means inter-

posed in a film loop between said drum and said sprocket, said means comprising a rotatable roller over which said film passes, a bracket for said roller, a spring exerting tension on said bracket and roller substantially normal to the direction of initial displacement of said roller and rapidly



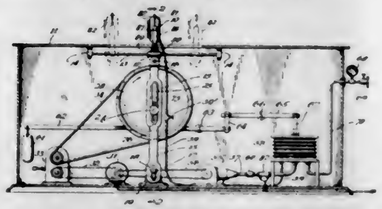
increasing tension to increasing displacement of said roller beyond initial displacement, and a bearing for said bracket providing a substantially constant resistance at all displacements of said roller, said substantially constant resistance being produced by steel and felt contact pressure resistance.

2,157,394
BED COMMODE
Joseph E. Beery, Columbus, Ohio
Application October 16, 1937, Serial No. 169,496
5 Claims. (Cl. 4—112)



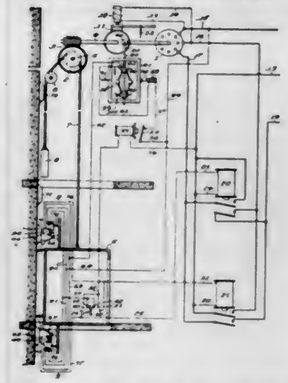
1. A bed commode comprising a body having an open top and integral bottom and side walls, a protective apron projecting from the upper edges of said side walls, said apron being foldable to cover the open top of said body, foldable handle sections provided on the outer sides of opposed side walls of said body, and means for connecting the ends of said sections together.

2,157,395
MECHANICAL MASSAGING APPARATUS
Simon Benson, Chicago, Ill.
Application January 14, 1935, Serial No. 1,694
12 Claims. (Cl. 128—52)



1. A massaging apparatus comprising a pneumatic pressure-applicator, driving mechanism for reciprocating the applicator, means for applying air pressure to the applicator, and means for automatically decreasing the air pressure upon the applicator during one stroke only of each reciprocation thereof.

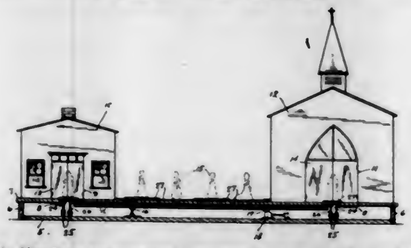
2,157,396
ELEVATOR LEVELING SYSTEM
Joseph H. Borden, Philadelphia, Pa., assignor to Atlantic Elevator Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application December 1, 1937, Serial No. 177,420
15 Claims. (Cl. 187—29)



1. The combination with an elevator car, an electric driving motor therefor and control means for selectively energizing it to move the car, of speed responsive means cooperative with said control means to restrain the motor from exceeding a given speed less than its normal operating speed when said motor after moving the car at such normal speed has been deenergized and subsequently reenergized when the car is within a predetermined zone adjacent the floor and means for so reenergizing the motor when the car is in said zone.

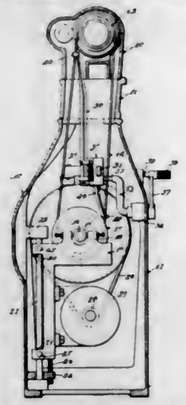
3. In a leveling circuit for an electric elevator, a speed responsive switch comprising centrifugal switch contact control means, means for driving said control means from the elevator motor and means in circuit with the switch contacts for controlling said switch driving means in accordance with the speed of said switch driving means.

2,157,397
DISPLAY APPARATUS
Mary Emily Brink, Grand Island, Nebr.
Application September 26, 1938, Serial No. 231,825
1 Claim. (Cl. 40—126)



A display apparatus comprising a platform having a slot therein, a traveling member mounted under the platform and beneath the said slot, an elongated arrangement of plates on the platform, said plates having their end portions in interlapping relation, connecting means between the traveling member and the plates, display figures mounted on certain of the plates, said plates being constructed and arranged on the platform to conceal the said slot from view.

2,157,398
BELT SHIFTING MECHANISM FOR A LATHE
Thomas E. Brown, Chicago, Ill.
Application November 15, 1937, Serial No. 174,548
4 Claims. (Cl. 74—242.4)



1. A belt shifting mechanism comprising a substantially horizontally extending guide rod disposed between a pair of aligned reversely mounted stepped cone pulleys at an angle to the axes thereof and parallel with an imaginary line drawn through the corners of the steps of one of said pulleys, a carriage slidable longitudinally of said guide rod, a shifting arm pivotally mounted on said carriage and extending in one direction with the end thereof engaging one run of the belt adjacent one of said pulleys, a second shifting arm pivotally mounted on said carriage and extending in the opposite direction with the end thereof engaging the other run of the belt adjacent the other of said pulleys, a forked extension on each of the other ends of said shifting arms on the other sides of the pivotal points thereof, stops on said carriage for engaging one of the forks of each of said shifting arms for limiting the movement thereof in one direction, a compression spring between each of the other forks of said shifting arms and ears extending from said carriage for resisting movement of said shifting arms in the other direction, and means for operating said carriage into its positions of longitudinal movement.

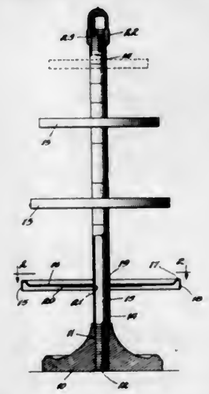
2,157,399
SOCK
Norman Cohn, New Rochelle, N. Y.
Application May 17, 1938, Serial No. 208,363
3 Claims. (Cl. 2—241)

1. A child's tab sock comprising a knitted body portion of relatively fine gauge and including a reinforced toe and heel section and an unreinforced ankle portion adapted to conform to and thus snugly fit about the foot and ankle of the wearer, a welt of double thickness of material knitted to the upper edge of the body portion along a welt line, the front of the sock being slit across the welt and for a distance therefrom downwardly along the body portion above the instep, fastening means of the zipper type having its eyeless fastening elements extending from the welt line downwardly along the slit to its lower end to close at will the portion of the slit below the welt, leaving the welt unfastened at its front side to form an open front tab collar to the top of the sock, said fastening means having a fabric tape extension lining adding stiffness to the free end edges of the welt, the rear portion of said welt provided with an opening into the same between its two layers of material and a Celluloid mem-



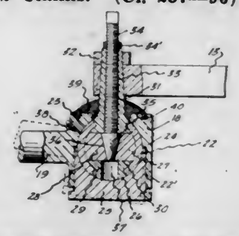
ber insertable into the welt through said opening to maintain the rear portion of the welt in an upright position while in use.

2,157,400
DISPLAY APPARATUS
Morris Cooper, Chicago, Ill.
Application May 1, 1937, Serial No. 140,162
5 Claims. (Cl. 211—128)



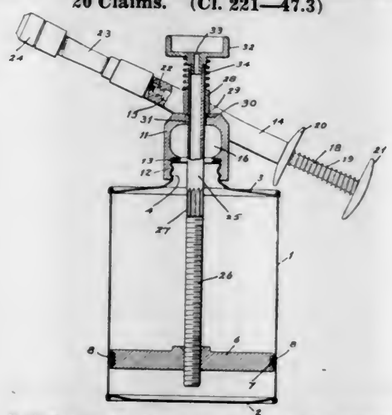
1. A display apparatus comprising a substantial base having an elongated threaded hole therein, a post having its lower end provided with a correspondingly elongated thread engaging with said hole and longitudinally adjustable therein, a plurality of relatively short tubular spreaders fitting over the post, trays having central holes engaging with the post and positioned between said spreaders and held in spaced relation thereby, supporting plates mounted on the post below each of said trays for strengthening the same, and a hollow nut engaging with the upper end of the post which is provided with an elongated threaded portion for receiving the nut, said nut also engaging with the uppermost spreader for fastening the parts together, said nut also providing for longitudinal adjustment of the post whereby additional trays may be inserted or trays removed from between the spreaders and the parts clamped securely together.

2,157,401
UNIVERSAL CONNECTION
Clyde R. Craver, Denison, Tex.
Application December 28, 1936, Serial No. 117,718
2 Claims. (Cl. 287—90)



1. A universal connection including, a body having a spherical socket therein, a ball member mounted to revolve within said socket, said member comprising a spherical supporting element located within the socket, movable sections carried by the element and having their outer surfaces adapted to engage the wall of the socket, and expanding means within the element for moving the sections outwardly when wear between the ball member and socket occurs, whereby engagement of the sections with socket wall is maintained.

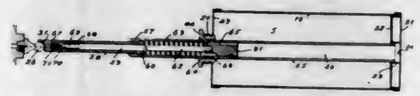
2,157,402
LUBRICATING MEANS
John L. Creveling, near Tucson, Ariz.
Application October 15, 1937, Serial No. 169,223
20 Claims. (Cl. 221—47.3)



1. Lubricating means including a container having end closures, a follower positioned near one of said closures, a removable member associated with another end closure and communicating with the interior of the container, a pump associated with said member in operative communication with the interior of said container, a tubular element passing through said member and engaging the follower and adapted to exert pressure upon the same and to admit air between the follower and the first-named one end closure.

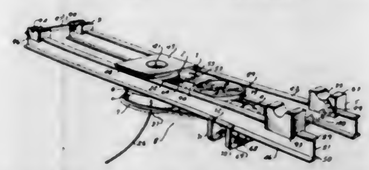
2,157,403
LUBRICATING MEANS
John L. Creveling, near Tucson, Ariz.
Application July 17, 1933, Serial No. 680,892
Renewed March 21, 1938
12 Claims. (Cl. 221—47.4)

1. Lubricating means including a container having non-removable end closures, a follower positioned near one of said closures when the container is filled with lubricant, a high-pressure pump passing through the other end closure and



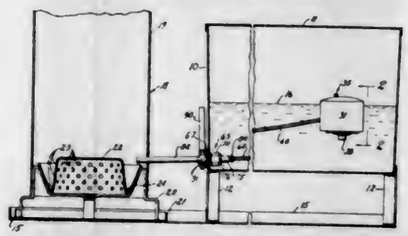
said follower and terminating within said container, and having an inlet for admitting atmospheric air between said follower and the said one of said closures.

2,157,404
TURNTABLE
George A. Dodge, Charles L. Meinholdt, and Herbert H. Mack, Topeka, Kans.; said Dodge and said Meinholdt assignors to said Mack
Application May 17, 1937, Serial No. 142,958
2 Claims. (Cl. 104—44)



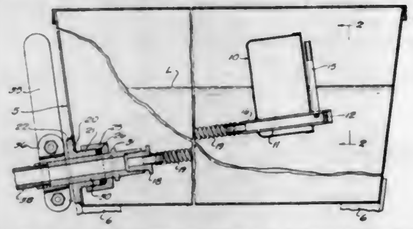
1. A turntable of the character described including a circular rim forming a base and having an annular belt engaging face, a spider fixed to the rim and having a bearing housing rigidly mounted concentrically of said rim, a spindle journalled in the bearing housing, a vehicle supporting frame fixed to the spindle, a motor on said frame, a speed reduction mechanism on the frame and having a driven connection with the motor and a driving pulley arranged with its axis extending parallel with the axis of said circular rim, and a flexible belt operating over said driving pulley and over the belt engaging face of said rim whereby the frame is caused to revolve with the spindle rotating in said bearing housing.

2,157,405
FLUID FLOW CONTROL DEVICE
Elmer E. Frey, Los Angeles, Calif., assignor to Kittle Manufacturing Co., Los Angeles, Calif., a corporation of California
Application January 8, 1938, Serial No. 184,000
15 Claims. (Cl. 137—21)



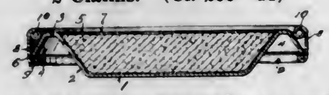
1. In a liquid reservoir having a float member adapted to float upon the liquid in the reservoir, a discharge tube having its inlet end supported by the float, said inlet end being movable with respect to the liquid level in the reservoir by virtue of rotation of the tube.

2,157,406
FLUID FLOW CONTROL DEVICE
Elmer E. Frey, Los Angeles, Calif., assignor to Kittle Manufacturing Co., Los Angeles, Calif., a corporation of California
Application August 1, 1938, Serial No. 222,429
8 Claims. (Cl. 137—21)



1. In a liquid reservoir having a rotatable float member adapted to float on the liquid in the reservoir and a rotatable discharge tube firmly secured adjacent its inlet end to the float, the inlet end of the discharge tube being positioned at a point offset from the axis of the float so that rotation of the discharge tube rotates the float and moves the inlet end of the discharge tube relative to the liquid level in said reservoir, said discharge tube being flexible between its ends.

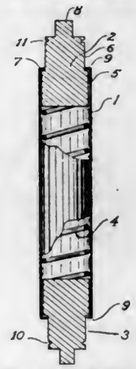
2,157,407
PACKAGE
George S. Frost, Baldwin, N. Y.; Theodora B. Frost executrix of estate of said George S. Frost, deceased
Application February 1, 1935, Serial No. 4,437
2 Claims. (Cl. 206—44)



1. A display and storage package comprising an open top container having an outwardly extending and downwardly inclining resilient annular peripheral flange, a sheet of transparent flexible material spanning the top and flange of the container, and means to clamp said sheet to the container flange comprising an annular continuous member of edgewise stiff sheet material of less diameter than the container flange and having relatively rigid, continuous, annular, spaced and inwardly extending shoulders on the inner side thereof, said member being adapted to be applied to the container flange to clamp the sheet thereto by engaging the annular member upon the container flange and pressing downwardly thereon to constrict and squeeze in the flange and cause one shoulder on the annular member to pass over the edge of the container flange, and said container flange by the resiliency thereof springing over said shoulder and engaging the interior of the annular member between said shoulder and the other shoulder, and said latter shoulder forming a cam surface for permitting the removal of the annular member by pressure applied to said member to constrict and squeeze in the container flange.

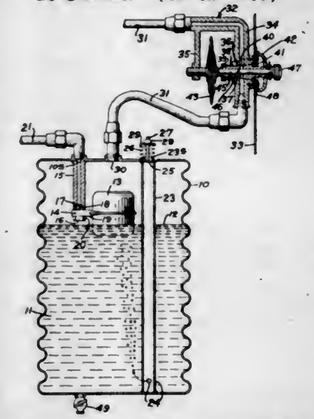
2,157,408
SPRING BAR
Charles B. Greenberg, New York, N. Y.
Application December 4, 1937, Serial No. 178,029
5 Claims. (Cl. 24—265)

1. A spring bar comprising a tube, a trunnion having a wide part carried in the tube, a reduced intermediate portion partly projecting from the tube, and a further reduced outer end portion extending axially from the intermediate portion, said reduced intermediate portion having indentures therein near the outer end portion; and a



spring within the tube and abutting the inner end of the trunnion to urge the trunnion outwardly, said tube having an inturned end to provide a sliding fit with the intermediate portion of the trunnion and to limit the outward movement of the latter.

2,157,409
AIR COOLING DEVICE
Fred A. Helfrecht, Oakland, Calif.
Application October 8, 1937, Serial No. 167,988
16 Claims. (Cl. 62—169)



1. An air cooling device comprising a tank for containing a fluid at a predetermined fluid level, an air inlet means for admitting air into the tank below the predetermined fluid level, a suction means for drawing air from above the fluid level in the tank, a valve for controlling the suction of the air from the tank, and a thermostat for controlling said last mentioned valve.

6. An air cooling device comprising a tank for containing a fluid at a predetermined fluid level, a supply conduit for communicating with a fluid supply and with said tank, a cut-off valve for controlling communication of the supply conduit with the tank, a float operative responsive to the fluid level in the tank for actuating the cut-off valve, an air inlet means including a check valve for admitting air into the tank below the predetermined fluid level, a suction means for

drawing air from above the fluid level in the tank, and a valve for controlling the suction of the air from the tank, said check valve of the air inlet means being operative to maintain the air inlet closed when the cut-off valve of the fluid supply conduit is open, and to open the air inlet means responsive to the suction means when said cut-off valve is closed.

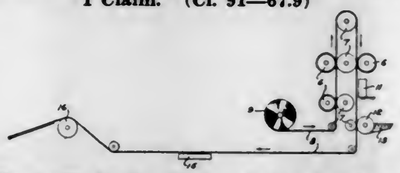
2,157,410

WRAPPER AND SYSTEM OF PRODUCING SAME

M. T. Heller, Chicago, Ill., assignor, by mesne assignments, to Marshall & Ilsley Bank, Milwaukee, Wis., a Wisconsin Bank

Application April 5, 1937, Serial No. 135,036

1 Claim. (Cl. 91—67.9)



The method of continuously producing commodity wrappers from thin inexpensive non-transparent paper at relatively high speed which consists in passing a web of such paper through a printing station to apply with quick drying ink to predetermined spaced portions of said web a colored printed area, partially drying said printed area after the printing operation to dissipate a portion of the solvents of said ink so that the ink is partially but not completely set, and in the same machine and as quickly as possible thereafter coating with a quick drying transparent varnish substantially only the printed area of said web before the ink has completely set to enhance the gloss and lustre of the printed area, and then artificially drying said varnish and ink simultaneously so that the paper web may be immediately subjected to a subsequent operation without sticking.

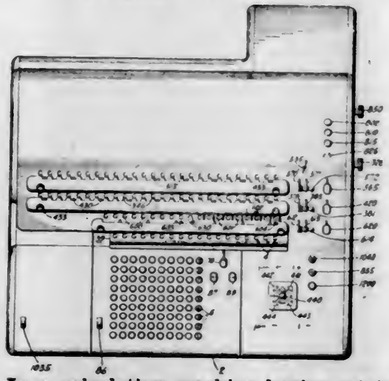
2,157,411

CALCULATING MACHINE

George W. Hopkins, Jr., San Leandro, Calif., assignor to Marchant Calculating Machine Company, a corporation of California

Application May 8, 1931, Serial No. 535,881

19 Claims. (Cl. 235—79)



1. In a calculating machine having relatively displaceable groups of differential elements adapted to represent two factors in a plural order calculation, normally disabled means for comparing the values entered into said groups, manually operable means for enabling said comparing means, means for maintaining said enabling means in operative position throughout a plural order operation, and automatically operable means rendered effective by the displaceable group in the last displaced position thereof for disabling said maintaining means.

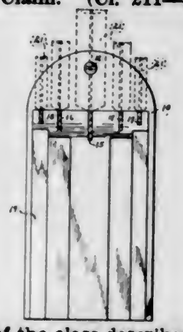
2,157,412

KNIFE HOLDER

Horner H. Hopkins, Des Moines, Iowa

Application November 12, 1937, Serial No. 174,172

1 Claim. (Cl. 211—87)



In a device of the class described, an elongated block member; said block member being of various thicknesses in cross section, a plurality of slot grooves cut in the rear side of said block member and extending the longitudinal length through the block member; said slot grooves being of various depths in proportion to the relative thickness of said block member in cross section, and a back board secured over the rearward side of said block member extending beyond its marginal edges and having a groove cut therein coincidental with one of the grooves cut in said block member.

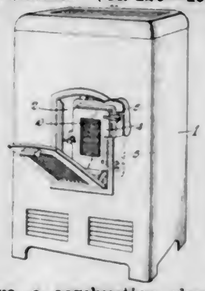
2,157,413

WINDOW FOR STOVES

David J. Howard, Chicago, Ill., assignor to Quaker Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application July 14, 1938, Serial No. 219,114

10 Claims. (Cl. 126—193)



1. In a stove, a combustion chamber and an observation window in the wall thereof, said window including an outer air pervious member and an inner transparent air impervious member, said transparent member terminating short of the bottom of said pervious member, whereby an air admission aperture underlies substantially the entire width of said transparent member, and baffle means for directing the air admitted through said aperture upwardly across the inner surface of the transparent member in the general direction of movement of the heated gases and by-products of combustion within the combustion chamber.

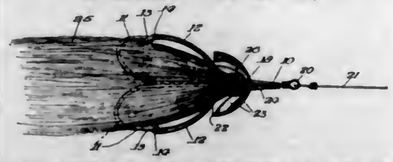
2,157,414

ARTIFICIAL FISHING BAIT

Carl A. Johnson, Chicago, Ill.

Application December 4, 1937, Serial No. 178,042

2 Claims. (Cl. 43—39)



1. An artificial bait embodying a wire rod, a hook provided adjacent one end of the rod, an anchored guard yieldably contacting the hook adjacent the end of the latter, a tail element substantially concealing the hook, a concaved spinner mounted upon said rod for free rotation with respect thereto and extending over the proximate portions of the hook and tail, means for maintaining the spinner against movement in a direction lengthwise of the rod, the body of the spinner being formed into spiral convolutions extending in a direction lengthwise of its axis, and a tubular conical projection of substantial length rigidly connected with and projecting from the outer face of said spinner, said projection loosely encompassing said rod.

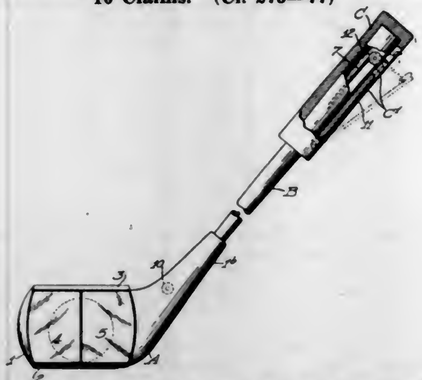
2,157,415

PRACTICE GOLF CLUB

William L. Jones, Los Angeles, Calif.

Application January 11, 1937, Serial No. 119,997

10 Claims. (Cl. 273—77)



1. In a golf club, a head having a ball receiving recess, a resiliently closing retaining means on the head for retaining a ball in the recess, a manually operated lever on the club, and pulley and cable means connecting the lever to the ball retaining means for opening the same against the resiliently closing force of the retaining means when the lever is operated.

2,157,416

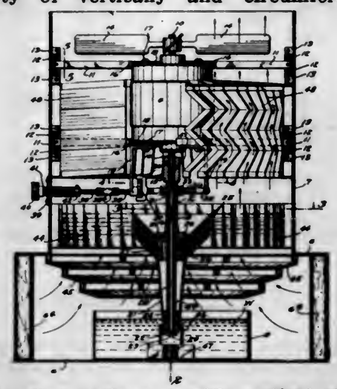
CENTRIFUGAL ATOMIZER

Hans A. Kjos, Minneapolis, Minn.

Application February 21, 1938, Serial No. 191,838

11 Claims. (Cl. 261—91)

1. In a device of the kind described, a rotary tubular elevator provided at its lower end with an intake port and at its upper portion with a plurality of vertically and circumferentially



spaced outlet ports, and with vertical channels extending individually to said outlet ports from points below the respective outlet ports to which they deliver.

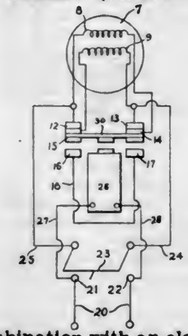
2,157,417

AUTOMATIC CIRCUIT SELECTOR

Richard F. Kneisley, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio

Application August 2, 1937, Serial No. 156,877

2 Claims. (Cl. 172—179)



1. The combination with an electric motor having two windings and adapted for operation on two line voltages, depending on whether the windings are connected in series or parallel, and a supply line for said motor, of an electromagnetically operated two position switch, a motor switch adapted to connect the motor to the line, means for connecting the motor windings to the two position switch for series or parallel operation, depending on the position of said two position switch, means for connecting the windings of the motor to the motor switch through said two position switch, and means for connecting the electromagnet of said two position switch to the line ahead of said motor switch whereby the electromagnetically operated switch connects said windings in parallel for the lower voltage and in series for the higher voltage.

2,157,418

SPRING COVER

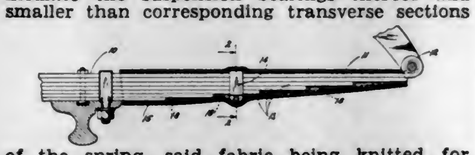
Stephen W. Lippitt, Cleveland, Ohio

Application November 20, 1937, Serial No. 175,655

3 Claims. (Cl. 267—37)

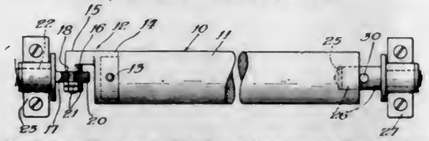
1. A spring cover formed of a sheet of knitted

fabric having rubber calendered thereon, said sheet being folded to form a tube substantially equal in length to the portion of the spring intermediate the suspension bearings thereof and smaller than corresponding transverse sections



of the spring, said fabric being knitted for greater extensibility in one dimension of the sheet than the other and being arranged within the tube with the extensible dimension of the sheet transverse the axis of the spring.

2,157,419
SPINDLE
Alfred Marchev, La Grange, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application December 10, 1937, Serial No. 179,154
3 Claims. (Cl. 242—68)



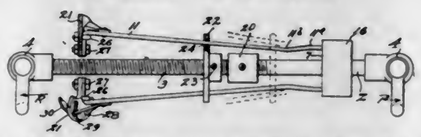
3. A winding spindle for a hectograph machine, comprising in combination a body portion having a socket in concentric position in one end, a cap on the opposite end of said body portion having an arm at one side face extending beyond the end of the body portion, and a pin fixedly mounted on said arm and extending transversely of the spindle diammetrically thereof.

2,157,420
SKI POLE
Joseph McArthur, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a corporation of Michigan
Application September 16, 1938, Serial No. 230,216
6 Claims. (Cl. 280—11.37)



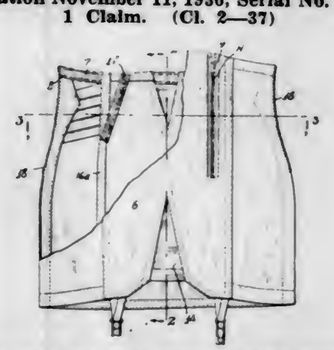
1. In a ski pole, the combination of a shaft and a shoe mounted thereon, the shoe comprising an outer ring and a plurality of flexible thongs having their outer ends secured to the ring, each of the thongs being provided at its center with an opening embracing the shaft, and an anchoring strap having a center aperture embracing the shaft on one side of the associated thongs and having its ends entered through the apertures in certain of the thongs and the ends being provided with apertures through which the shaft is entered on the opposite side of the associated thongs for anchoring the shoe as a whole upon the shaft.

2,157,421
COMPENSATING PIPE OR SEWER CLEANER OR SCRAPER
George I. McFarland, Mesa, Ariz.
Application March 3, 1937, Serial No. 128,777
8 Claims. (Cl. 15—104.18)



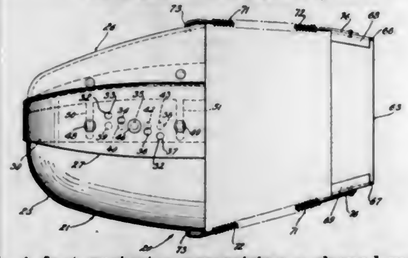
1. A bore scraping tool including a draw bar, an annular gang of scraping blades concentric with the draw bar having respective spring arms and means slidably mounted on the bar and to which the arms are hingedly connected at one end and have laterally tilting motion on their longitudinal axes to provide for radial expansion of the blades to bores of different diameters and for their automatic conformation to circular or oval section bores, and bridle means fixed on the bar and in which the arms are longitudinally slidable and laterally tiltable; the arms converging toward their hinged ends.

2,157,422
CORSET GARMENT
Samuel T. Metz, Jamaica, N. Y., assignor to Treo Company, Inc., Jamaica, N. Y., a corporation of New York
Application November 11, 1936, Serial No. 110,243
1 Claim. (Cl. 2—37)



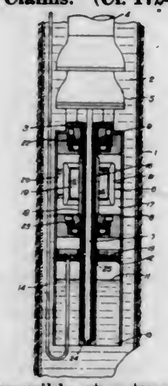
A garment having a panel made of elastic material, said panel having a reinforcing strip at its inner wall, said reinforcing strip being made of substantially non-stretchable material, said reinforcing strip comprising an upper tapered portion and a lower tapered portion, said portions being oppositely tapered so that the widest portion of said reinforcing strip is intermediate the top and bottom thereof, said panel having separated edges which are connected by flexible stitches, said reinforcing strip also having separated edges which correspond to the separated edges of the panel, said reinforcing strip and said separated edges being substantially vertical, vertical rows of reinforcing straps located on opposite sides of said separated edges, said respective rows being inclined to each other and being inclined upwardly relative to said separated edges, the lower ends of said straps being located between the inner surface of said panel and said reinforcing strip, said straps having free portions intermediate their ends, said free portions increasing in length from the junction between said tapered portions.

2,157,423
FOOT PROTECTOR
George A. Moriarty, San Diego, Calif.
Application July 16, 1937, Serial No. 153,963
18 Claims. (Cl. 36—72)



1. A foot protector comprising a shaped metal shell; an abutment on said shell adapted to rest upon the welt of a shoe; a yoke member adapted to be inserted under the instep section of the shoe sole; hooks on said yoke member adapted to overlie the welt; and resilient means connecting said yoke member and said shell for urging the latter member forwardly into wedging engagement with the sole and maintaining the shell in position on a shoe.

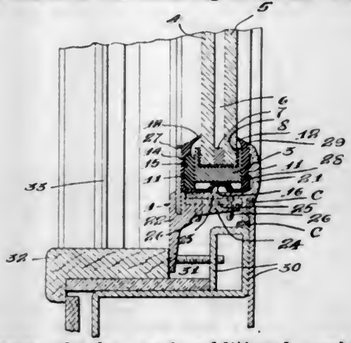
2,157,424
SUBMERSIBLE ELECTRIC MOTOR
Thomas G. Myers, Los Angeles, Calif., and Frank Mason, Chicago, Ill., assignors to U. S. Electrical Motors, Inc., a corporation of California
Original application February 27, 1932, Serial No. 595,590. Divided and this application August 23, 1937, Serial No. 160,482
4 Claims. (Cl. 172—36)



1. In a submersible structure, a housing open at the bottom, a rotatable drive mechanism in said housing, and means for supplementing the gas trapped in said housing, comprising a chemical reagent acting to evolve gas.

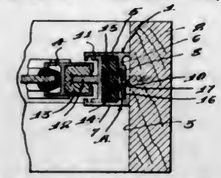
2,157,425
WINDOW CONSTRUCTION
Russell B. Nelson, Onondaga, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application April 24, 1937, Serial No. 138,831
9 Claims. (Cl. 189—64)

1. In a window construction, the combination with a window frame formed with a channel, and a sash frame mounted in the channel and having means for receiving the margins of the glass of the sash, and a resilient cushion strip between one side of the sash frame and the opposing wall of the channel for relieving the sash frame of



transverse shocks, and additional cushioning means, located between the edge of the sash frame and the bottom of the channel, for relieving the sash frame of edgewise shocks.

2,157,426
WINDOW CONSTRUCTION
Russell B. Nelson, Onondaga, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application May 14, 1937, Serial No. 142,656
12 Claims. (Cl. 189—73)

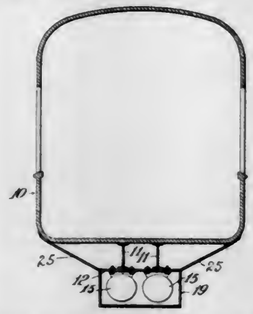


1. In a window construction, the combination of a window frame formed with a channel having a body including one side and the bottom of the channel and a demountable side, a sash in the frame, a member in the channel for coacting with the sash to hold the same, a resilient compressible pad between the bottom of the channel and the opposing face of said member and coacting therewith throughout the length of said member and the channel, the demountable side of the channel having means for interlocking therewith upon movement of the demountable side inwardly into normal position.

2,157,427
METHOD OF MOUNTING UNDERNEATH EQUIPMENT TO RAILROAD CARS
Karl F. Nystrom, Milwaukee, Wis.
Application April 10, 1937, Serial No. 136,081
1 Claim. (Cl. 105—2)

In combination with the center sill members of a standard railroad car, a rigid single piece equipment holding element adapted to be secured centrally to the bottoms of the center sill members of the car underframe and of width less than the width of the car floor, said element being adapted to have all of the car underneath equipment uniformly secured thereto and disposed at opposite sides of and adjacent to the longitudinal center line of the car body so as to locate the weight of said underneath equipment adjacent said longitudinal center line and symmetrically disposed with respect to the lon-

gitudinal center line of the car body and in counterbalancing relation with the weight of the car body, and a closed housing coextensive with



said element and enclosing all of the car underneath equipment, said housing being provided with reduced air deflecting ends.

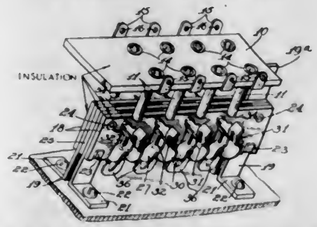
2,157,428

PLUG AND JACK CONSTRUCTION

Theodore J. Obszarny, Chicago, Ill., assignor to Guardian Electric Mfg. Co., Chicago, Ill., a corporation of Illinois

Application June 21, 1937, Serial No. 149,380

6 Claims. (Cl. 173—332)



1. In a structure of the character described, a jack unit including a panel of insulating material, and a plurality of jacks mounted in a bank on said panel with their plug openings extending in a direction substantially parallel to the panel, said jacks being adapted for cooperation with a plurality of plugs arranged in a bank to complete portions of a plurality of different electrical circuits, said jacks each being formed as stampings, including a body mounted flat against the panel, and a pair of spaced-apart, yieldable elongated fingers each being solely connected adjacent its lower end to said body, and the upper ends of said fingers being free and yieldable away from each other, the free ends of said fingers being formed to present a pair of cooperating, oppositely facing, convexly curved surfaces extending in the general direction of the length of said fingers for embracing the surface of a plug extending parallel to said panel.

2,157,429

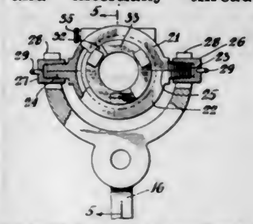
CLUTCH THROW-OUT COLLAR

Edward Padden, St. Albans, N. Y.

Application December 16, 1937, Serial No. 180,060

4 Claims. (Cl. 192—98)

1. A clutch throw-out collar comprising a ring portion and two oppositely disposed trunnion portions thereon, said collar being split into two separable parts, the split extending through said trunnion portions, said trunnion portions being threaded, and internally threaded sleeves



screwed onto said trunnion portions to hold the clutch throw-out collar assembled.

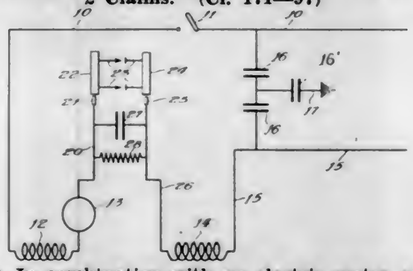
2,157,430

MOTOR CIRCUIT

Victor A. Partz, Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application July 23, 1937, Serial No. 155,255

2 Claims. (Cl. 171—97)



2. In combination with an electric motor and casing a motor circuit having a single pole switch in the line a filter grounded to the motor casing, said filter comprising condensers connected in series across the line on the line side of the switch and a condensers in the ground wire, the voltage across the condensers to the casing being one-half of the line voltage when the switch is open, thus reducing the leakage current, regardless of whether the live or neutral side of the motor circuit is connected to the live side of a source of current supply.

2,157,431

MONOAZO DYES OF THE XANTHONE SERIES AND PROCESS OF MAKING THEM

Pierre Petitcolas, Rouen, France, assignor to Compagnie Nationale de Matières Colorantes et Manufactures de Produits Chimiques du Nord, Réunies, Etablissements Kuhlmann, Paris, France, a corporation of France

No Drawing. Application July 28, 1937, Serial No. 156,177. In France August 4, 1936

4 Claims. (Cl. 260—152)

1. Process for the manufacture of insoluble azodyestuffs consisting in coupling a diazo derivative of amino-xanthone with a member of the group consisting of the phenyl and naphthylamides of the 2.3 hydroxy-naphthoic acid and the diaceto-acetyl-o-tolidine.

2,157,432

COMBINED BOTTLE CLOSURE AND COMB WIPER

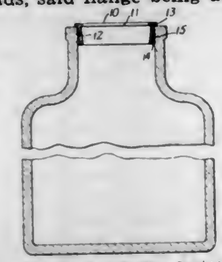
Adolph Pitar, Brooklyn, and Oscar Dahloff, Jamaica, N. Y.

Application August 13, 1937, Serial No. 158,874

3 Claims. (Cl. 132—1)

1. In a combined bottle closure and comb

wiper, a flat flexible resilient member having an elongated slit extending therethrough adapted to receive a comb for the application thereto of the liquid contained in the bottle, and for wiping the excess liquid therefrom when the comb is removed from the slit, and said member having a flexible resilient peripheral flange provided with a pair of outwardly extending spaced peripheral beads, said flange being adapted to en-



gage within the neck of the bottle with one of said beads overlying the rim of the bottle and the other bead engaging against the inside face of the neck thereof for removably securing the said member in covering relation with the mouth of the bottle for sealing the same and for maintaining the lips of the slit in close relation to prevent spillage of the contents of the bottle therethrough.

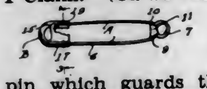
2,157,433

SAFETYPIN

Samuel C. Porter, Ogden, Utah

Application September 16, 1936, Serial No. 100,982

1 Claim. (Cl. 24—156)



A safety pin which guards the penetrating point when not in use comprising a body formed of a back bar, a penetrating point integral therewith being joined together by a reversely wound coil; a spacer clip secured around the inner loop of said coil to space the back bar and point apart against the reverse action of the coil; and a head for said pin including a portion of the head crimped onto the end of the back bar to secure the head to the pin body, and a U-shaped socket into which the penetrating point is to be inserted when being used, said U-shaped socket being substantially parallel to the crimped portion of said head with the legs of the U extended toward the crimped portion with spaced apart parallel shields extending along each side of said U-shaped socket said shields to guard the penetrating point when the pin is not being used, the reverse action of the coil normally holding the point within the protection of one or the other of said shields.

2,157,434

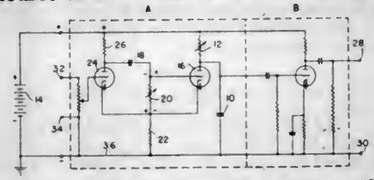
OSCILLATOR CIRCUIT

James L. Potter, Iowa City, Iowa

Application April 17, 1937, Serial No. 137,463

7 Claims. (Cl. 250—36)

1. In a sweep circuit, a condenser, a resistance and a source of unidirectional current connected in series, an electron tube, plate, grid and cathode elements in said tube, said plate and cathode elements being connected in series with said condenser, a resistance connected between said grid and cathode elements, a second electron tube, a plate and cathode in said tube, a capacitive coupling of said grid to said plate of said second electron tube, a resistance between said plate of said second electron tube and one terminal of said source of unidirectional current and a com-



mon resistance in the connection of the cathodes of both said electron tubes to the other terminal of said source of unidirectional current.

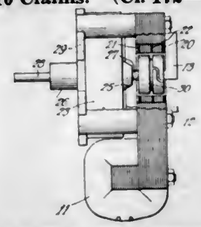
2,157,435

SYNCHRONOUS MOTOR

Alexander C. Reid and Harold J. McCreary, Genoa, Ill., assignors to Leich Electric Co., Genoa, Ill., a corporation of Illinois

Application April 12, 1937, Serial No. 136,388

10 Claims. (Cl. 172—278)



1. A self-starting synchronous motor having a field magnet structure provided with partially shaded pole projections and an alternating current exciting winding for producing a rotating magnetic field, a rotor element, said rotor element comprising a band composed of a metal of high magnetic retentivity, said band being divided by a slot which extends in part circumferentially of the band whereby the portions of the band on the opposite sides of the slot overlap each other, the circumferential extent of overlapping of the band ends being greater than the gap distance between adjacent polar projections.

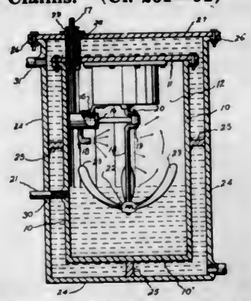
2,157,436

MEANS FOR CONDENSING FLUIDS

Eno F. Renken, Dallas, Tex.

Application May 23, 1936, Serial No. 81,363

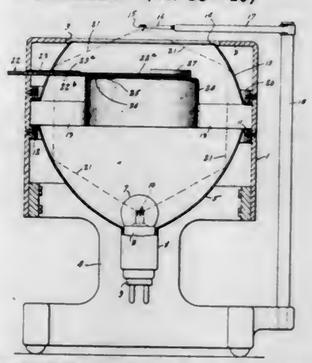
8 Claims. (Cl. 261—91)



1. A condenser for the refrigerating medium of a refrigerating system including, a casing having the motor and compressor of said system located therein, means for maintaining a level of the liquid condensate within the container, and

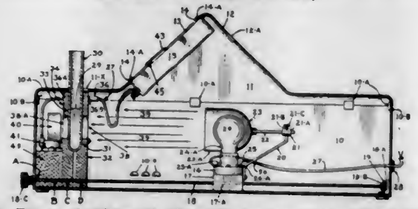
means for releasing the fluid to be condensed from the compressor into the container above the liquid level, and means operated by the motor for spreading the liquid upwardly within the container into contact with the fluid to effect condensation thereof.

2,157,437
DARK FIELD ILLUMINATOR
Robert M. Shipley, Jr., Los Angeles, Calif.
Application January 25, 1938, Serial No. 186,823
3 Claims. (Cl. 88—40)



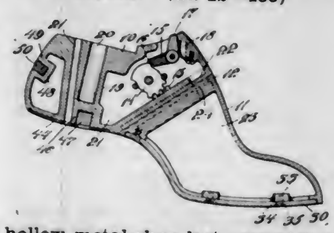
1. A dark field illuminator for examining precious stones, having a primary substantially parabolic reflector and a secondary substantially parabolic reflector, said reflectors being mounted substantially coaxially with their concave sides toward each other, a source of illumination located substantially at the focal point of the primary reflector, the secondary reflector being truncated and of annular form so as to present an opening, and with its focal point located beyond the plane of the opening with respect to the body of the reflector, one of said reflectors having a surface finish operating to partially diffuse the reflected light; and a dark background located on the axes of the reflectors and between the reflectors, against which the stone may be viewed, said reflectors cooperating to reflect the rays from the source of illumination, around the periphery of the background and up through the said opening onto the stone when held at the focal point of the secondary reflector.

2,157,438
DEVICE FOR COUNTING BACTERIA AND THE LIKE
Sherman P. Sparks, Mount Olive, Ill.
Application May 10, 1937, Serial No. 141,731
2 Claims. (Cl. 88—14)



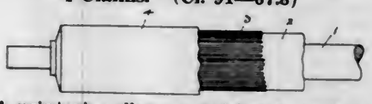
1. In a device of the character described the combination of a housing, a removable cover for said housing, a photoelectric cell mounted at one end of said housing, an opening in said cover, an illumination meter mounted in said cover, said meter being visible through said opening, said meter being also cooperatively connected with said photoelectric cell, an opaque wall comprising two members mounted transversely of said housing adjacent said cell, one of said wall members being fixed and the other movable longitudinally of the housing, said wall members having aligned windows therethrough, and also having aligned grooves in the faces thereof forming a socket, a transparent receptacle inserted in said socket, a light bulb mounted for longitudinal adjustment on the opposite side of said wall from said cell, said cell, windows, receptacle and bulb being in longitudinal alignment with one another, and coil springs having their ends attached to said members to force the movable member toward the fixed member.

2,157,439
SHOE LAST
Joseph H. Stone, Brockton, Mass.
Application May 14, 1937, Serial No. 142,606
2 Claims. (Cl. 12—133)



1. A hollow metal shoe last comprising a hollow metal body portion with an open bottom, an individual sole member into which nails may be driven forming at least a portion of the bottom of the sole of the last and positionable in or removable from the last, a flange on the body portion on which the sole member rests, threaded holes in said flange and headed screws passing through said member and entering said holes to secure the member in position on said flange.

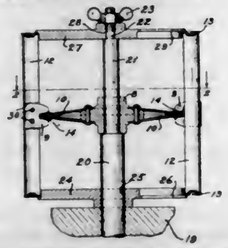
2,157,440
PRINTER'S ROLLER
John Streckfus, Louis Schmidt, and Harry Godwin, Baltimore, Md.
Application September 6, 1938, Serial No. 228,596
4 Claims. (Cl. 91—67.8)



1. A printer's roller comprising a stock, a glue composition surrounding said stock, cords running lengthwise of said glue composition, and a rubber outer surface surrounding said roller and bound to said cords.

2,157,441
BLADED STRUCTURE AND METHOD OF PRODUCING SAME
Frank J. Sullivan, Oshkosh, Wis.
Application August 7, 1937, Serial No. 157,820
7 Claims. (Cl. 29—156.8)

1. The method of producing a bladed structure having an annular series of blades provided with opposite end rings and mounted on a central support, which comprises, initially slotting and supporting the end rings in parallel spaced relation, inserting several circumferentially spaced anchor blades within alined slots of the rings and permanently attaching these blades to the rings, attaching the anchor blades to the periph-



ery of the central support, and finally inserting the remaining blades within other alined slots of the rings and permanently attaching these remaining blades to the rings in substantial contact with the support.

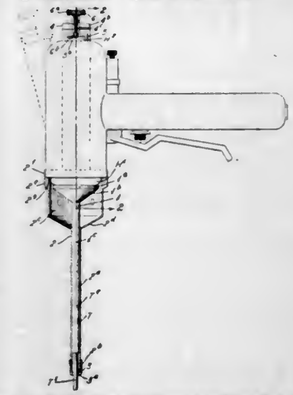
2,157,442
WIRE LINE SWING
Walter C. Trout, Lufkin, Tex., assignor to Lufkin Foundry & Machine Company, Lufkin, Tex., a corporation
Application March 2, 1936, Serial No. 66,575
7 Claims. (Cl. 74—522.5)

1. A horizontal swing for pull lines comprising a frame mounted to swing in a horizontal plane, a trackway thereon, a cable fixed adjacent the center of said trackway and extending beyond the ends thereof, and a pull line connected to each end of said cable whereby as said frame oscillates the pull lines extending therefrom will be guided in straight line movement by said trackway.

2,157,443
TIRE REMOVING TOOL
George Van Zale, Bay City, Mich.
Application March 26, 1937, Serial No. 133,159
5 Claims. (Cl. 157—6)

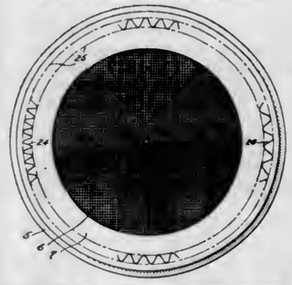
1. A tire tool of the character described comprising a wedge bar adapted to be inserted between the bead of the tire and the edge of a drop center rim, an anti-friction means mounted on said bar and spaced from one end thereof and engaging the bead of the tire, a pull lever, the lower end of the pull lever being curved and terminating in a rim engaging shoe, and flexible means connecting said wedge bar and pull lever.

2,157,444
TOOL HOLDER FOR PNEUMATIC HAMMERS
Charles P. Whitlock, San Diego, Calif.
Application October 13, 1936, Serial No. 105,385
5 Claims. (Cl. 121—32)



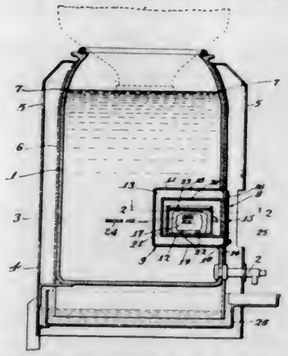
1. In a tool holder for conventional pneumatic hammers a readily removable plunger casing provided with a recess at its upper end adapted to receive and fit the conventional pneumatic hammer around the hammer head at the plunger end and provided with a chamber at the upper end below said recess arranged to receive the hammer head and a reduced hollow stem portion at its lower end, a plunger with a stem portion adapted to reciprocate in the stem portion of said casing and provided with a head adapted to reciprocate in the chamber portion thereof and adapted to engage the head of the hammer, means for securing said casing against the hammer surrounding the hammer head, and a tool holding cap adjustably mounted on the extended end of said casing stem.

2,157,445
METHOD FOR DETERMINING "WOW"
William F. Wichart, Los Angeles, Calif.
Application January 24, 1938, Serial No. 186,678
8 Claims. (Cl. 73—51)



8. A method for determining wow which includes; recording at equal time intervals, a series of angularly spaced marks on a rotating surface under test; and comparing corresponding spacings of such record at different angular positions thereof.

2,157,446
WATER COOLER
Guido J. Wiggenhorn, South Pasadena, Calif.
Application November 10, 1936, Serial No. 110,101
5 Claims. (Cl. 62—91.5)

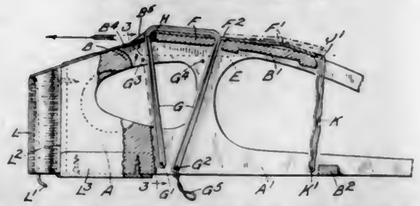


1. A water cooler comprising a water container, a dry ice chamber extending horizontally from the side wall of the water container into the interior and spaced from the bottom thereof, said dry ice chamber being formed with exterior and interior walls forming a closed insulating chamber therebetween, said dry ice chamber having an open end flush with the side wall of the water container, a removable cover therefor, a removable open topped dry ice receptacle within the dry ice chamber, a support of thermal insulated material for the dry ice in the receptacle, a loose thermal insulating sheet to rest on the dry ice in the receptacle, the exterior wall of the dry ice chamber being provided with minute perforations to permit slow circulation of water through the insulation chamber, the interior wall of the dry ice chamber being provided with a perforation permitting water to drop onto the fibrous sheet.

2,157,447
WELDING COMPOSITION
Cliff A. Williams, Dallas, Tex., assignor to Stanley D. Bowles, Dallas, Tex.
No Drawing. Application August 25, 1937, Serial No. 160,887
3 Claims. (Cl. 148—24)

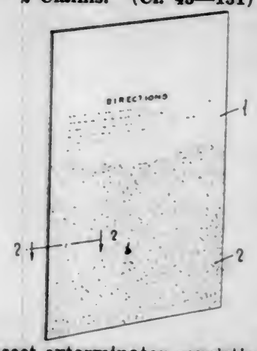
1. A welding composition consisting of a white metal alloy which inherently lacks fusion qualities and bicarbonate of soda admixed therewith in sufficient amounts to impart fusing properties thereto.

2,157,448
MODEL AIRPLANE OR GLIDER
William Edward Back, Oulton Broad, England
Application October 15, 1937, Serial No. 169,293
In Great Britain October 23, 1936
9 Claims. (Cl. 46—76)



1. A toy glider including in combination a longitudinal framework, a longitudinal seating formed on the framework and having a substantial area, a main lifting plane part of which adjacent its leading edge rests on said seating which is formed to maintain the plane at the correct angle of incidence for normal flight, at least one rubber band acting on the main plane in advance of the center of pressure of the plane to hold the plane normally on the seating but to permit the plane to move about a vertical axis should one end strike an obstruction and to move about a part adjacent its leading edge to reduce the angle of incidence of the plane on the occurrence of a lifting force thereon substantially in excess of that exerted during normal flight, and means for anchoring each rubber band to the framework.

2,157,449
INSECT EXTERMINATOR
Max Berg, Tulsa, Okla.
Application July 9, 1938, Serial No. 218,457
2 Claims. (Cl. 43—131)



1. An insect exterminator consisting of a thin, stiff sheet-like member having a large area of the front and back thereof completely coated with a non-tacky composition comprising a colored insecticide having as constituents thereof insect food and yellow phosphorus, the uncoated portion of said member forming a handle to facilitate placement of the exterminator.

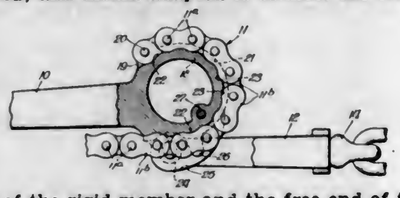
2,157,450
FOUNTAIN PEN ERASER ATTACHMENT
John Cidissen, New York, N. Y.
Application January 25, 1939, Serial No. 252,824
2 Claims. (Cl. 120—38)



1. The combination with a fountain pen cap having the outer end portion reduced and threaded internally and externally, of a cylindrical ink eraser externally threaded and received in the internally threaded portion of the reduced end, said eraser being formed with a pair of diametrically disposed longitudinally extending apertures for the greater portion of its length adapted to receive a tool for unscrewing the eraser for replacement when worn out.

2,157,451
LOAD BINDER
Leo Haubert, Tulsa, Okla.
Application April 9, 1938, Serial No. 201,101
14 Claims. (Cl. 254—78)

2. A load binder comprising, in combination, a lever fixed to a drum; a flexible member connected to and adapted to be wound upon said drum; a rigid member pivotally connected at one end to the drum; said pivotal connection being near the periphery of the drum and being close to the point where the lever and drum are attached; and means adapted to connect the other

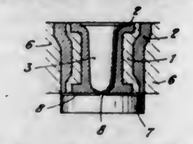


end of the rigid member and the free end of the flexible member with a load-binding element.

2,157,452
EXTREME PRESSURE LUBRICATING COMPOSITIONS
Robert L. Humphreys, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application March 31, 1934, Serial No. 718,433
14 Claims. (Cl. 87—9)

1. A composition of matter comprising an admixture of a lubricating oil and an ester of a thiophosphoric acid.

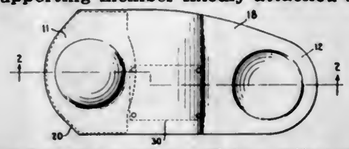
2,157,453
PROCESS FOR THE MANUFACTURE OF BEARINGS
Hans Jaeger, Karlshorst, Berlin, Germany, assignor to Admos Bleibronze Dr. Springorum & Co. Kom.-Ges., Berlin-Oberschoneweide, Germany
Application December 20, 1937, Serial No. 180,882
In Germany January 28, 1937
4 Claims. (Cl. 22—203)



1. Improved method for the lining of steel blanks internally and externally with bearing metal for the production of bearings, comprising the arrangement of a steel blank in a chill mould with a space between the interior of the mould and the exterior of the blank with the axis of the blank vertical and with an under passage from the interior to the exterior of the blank, filling the interior of the blank and the space between the exterior of the blank and the interior of the mould with molten metal poured into the interior of the shell and inserting a mandrel to expel the molten metal superfluous to the internal lining through the passage and upwardly along the external surface of the blank.

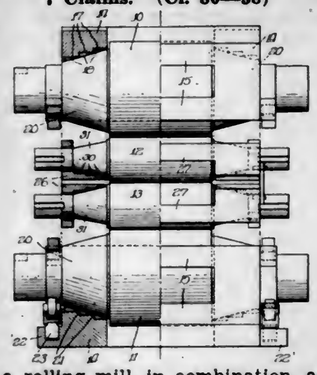
2,157,454
SUPPORTER
James J. Keys, New York, N. Y.
Application February 7, 1938, Serial No. 189,270
3 Claims. (Cl. 36—71)

1. A device of the character described comprising a sheet-like body member substantially conforming in contour to the contour of the sole of a human foot and having portions thereof adapted to being positioned adjacent the tarsal portion and other portions adapted to extend toward the phalanges of said foot, the end of said member nearest the tarsal portion being provided with a depression formed therein, adapted to receive and cooperate with the tarsal portion of the user's foot, the opposite end of said member being provided with relatively stationary resilient padding forming an upwardly protruding surface adapted to assist in the distribution of pressure from the foot of the user over portions of the sole and in relieving fatigue due to excessive pressure upon the ball portion of the foot, an upwardly curved arch supporting member fixedly attached to and



positioned near an intermediate portion of said body member, said supporting member comprising a plate of relatively resilient material curved upwardly near a central portion thereof and attached, near the edges thereof, to said member by fastening means passing therethrough, and means permitting the alteration of the contour of the padded portion of said member whereby to augment and alter the effect of said relatively stationary pad.

2,157,455
BEARING FOR ROLLING MILLS
Charles P. Kimmel, Gary, Ind.
Application July 31, 1936, Serial No. 93,605
7 Claims. (Cl. 80—38)

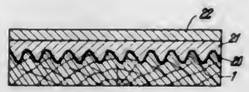


1. In a rolling mill, in combination, a pair of working rolls, said working rolls each having a roll neck of truncated cone shape extending from the ends of the body portion thereof, said roll neck at the junction with the body portion having a diameter almost equal to that of the body portion, journalling means for the working rolls including spaced bearing blocks each providing bearings semi-circular in transverse cross section and having contact with a tapering roll neck of its respective roll, and said bearings being adjustable in a direction parallel to the axis of the rolls.

2,157,456
METHOD OF UNITING SPRAYED METAL TO WOOD
Alfred Koyemann, Hamburg, Germany, assignor, by mesne assignments, to Naamlooze Vennootshap Derde Nederlandsche Patentenmaatschappij (D. N. P. M.) The Hague, Netherlands, a Dutch company
Application February 20, 1936, Serial No. 64,953
In Germany February 23, 1935
3 Claims. (Cl. 91—70.2)

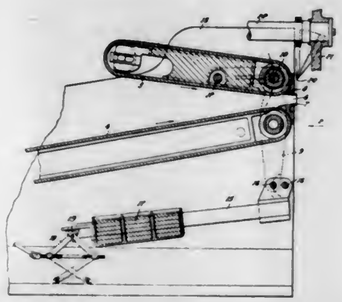
1. A process for the production of a multi-layer protective metal coating on a wooden construc-

tional element which is subject to severe stresses, the exterior layer of said coating being of a hard metal of high melting point, said process comprising first providing the surface of the wood with spaced parallel grooves extending substantially in the direction of the grain and at right angles to the direction of said stresses, the depth of said grooves corresponding to the thickness



of the metal coating, then applying to the resultant grooved surface a thin layer of a heat hardenable organic adhesive material which insulates the wood against the heat of subsequently applied layers, then spraying on said organic layer an intermediate layer of a metal of a melting point substantially lower than that of said hard metal, and finally spraying on said intermediate layer a layer of hard metal of high melting point.

2,157,457
TOBACCO LEAF CUTTING MACHINE
Henry William Langrish, Deptford, London, England, assignor to Molins Machine Company Limited, London, England
Application December 20, 1937, Serial No. 180,861
In Great Britain January 4, 1937
5 Claims. (Cl. 146—110)



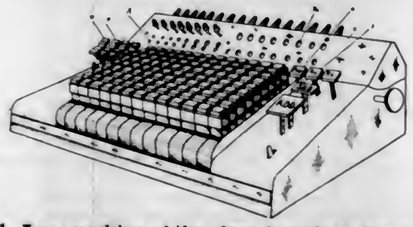
1. In a tobacco leaf cutting machine, the combination with a knife rotatable about a fixed axis of a mouthpiece with which said knife cooperates to effect cutting, said mouthpiece comprising a fixed part and a part adapted to move toward and away from said fixed part in accordance with the thickness of the tobacco mass passing therebetween, a carrier on which said movable mouthpiece part is mounted, guide elements engaging said carrier at points spaced in the direction of the plane of said mouthpiece, and means normally urging said movable mouthpiece part toward said fixed mouthpiece part, said parts being so constructed and arranged that on movement of said carrier said spaced points move with components of movement parallel to the plane of the mouthpiece, one of said points having a component of movement toward the plane of said mouthpiece at a time when the other of said points has a component of movement away from said plane, whereby said movable mouthpiece part moves substantially in the plane of said mouthpiece.

2,157,458
COKE GUIDE EMPLOYED WHEN DISCHARGING COKE FROM HORIZONTAL COKE OVENS
Matthew Hamilton McEwan and William George Buchanan, London, England, assignors to Woodall-Duckham (1920) Limited, London, England, a British company
Application January 17, 1938, Serial No. 185,466
In Great Britain January 25, 1937
3 Claims. (Cl. 214—18)



2. A machine for use in conjunction with horizontal coke-ovens, including a carriage movable along the coke-oven battery, a fixed coke guide comprising parallel vertical side members spaced apart with a floor plate between said side members on the carriage, movable auxiliary guide members hinged about vertical axes at the inner end of said fixed coke guide which auxiliary guide members when turned to the operative position form continuations of the vertical sides of said fixed coke guide extending between the buckstays of the oven battery up to the mouth of the coke-oven, and when turned to the out-of-service position are clear of the coke-ovens, and an apron plate pivoted at the inner end of the floor plate of said fixed coke guide and forming a continuation of said floor plate between said auxiliary guide members when the latter are in the operative position and serving to space apart the lower ends of said auxiliary guide members in such position.

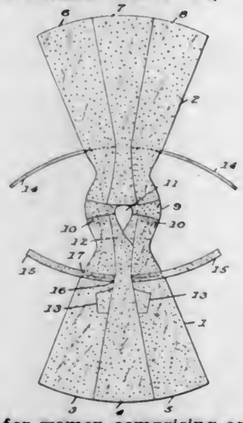
2,157,459
CALCULATING MACHINE
Friedrich Pott, Zella-Mehlis, Germany, assignor to Mercedes Büromaschinen-Werke Aktiengesellschaft, Benshausen, Thuringia, post office Zella-Mehlis, Germany
Application March 24, 1934, Serial No. 717,206
In Germany April 6, 1933
12 Claims. (Cl. 235—63)



1. In a machine of the class described, the combination of a carriage shiftable from a home position to a plurality of spaced operative positions, a totalizer on said carriage, a carriage shifting

mechanism, a resetting mechanism for the totalizer including a power driven member and a member for resetting the totalizer, separate manually operable means for controlling the operation of each mechanism, a connection between the control means for the two mechanisms and operable by the control means for the resetting mechanism to actuate the control means for the carriage shifting mechanism and thereby effect the shifting of the carriage to the home position and means operable only when the carriage has reached its home position to establish a connection between the power driven member and the resetting member to actuate the latter.

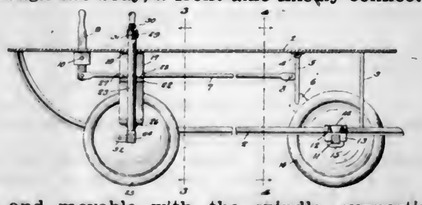
2,157,460
WOMAN'S DRESS
Eugene C. Robertson and Betty Roy Hamman, Decatur, Ill., assignors to Decatur Garment Company, Decatur, Ill.
Application August 17, 1937, Serial No. 159,570
3 Claims. (Cl. 2—74)



1. A dress for women comprising an upwardly tapered front section having opposed concavities in its longitudinal edges adjacent the top end; an upwardly tapered rear section also having opposed concavities in its longitudinal edges adjacent the top end; a four-sided shoulder panel intermediate the front and rear sections and provided with a central notch adjacent the front section, said shoulder panel having its opposite longitudinal edges markedly concaved and its opposite transverse edges convexed, said rear section having a convex upper edge coextensive with and joined to one of the concave edges of the shoulder panel, and said front section having a discontinuous convex upper edge with a notch therein aligned with the notch of the shoulder panel and its adjacent convex edges joined in shirred fashion to the adjacent concave edges of the shoulder panel, the convex edges of the shoulder panel and the adjacent edge continuation of the front and rear sections providing a sleeveless, belled bodice, and the tapered front and rear sections a full, graceful skirt when the dress is in use; and tie means for separately securing the front and rear sections about the waist of a wearer.

2,157,461
COASTER
Raleigh W. Robinson, Galesburg, Ill.
Application June 2, 1938, Serial No. 211,442
5 Claims. (Cl. 280—8)

1. A coaster including a body, runners rigidly connected thereto, a wheel-supported axle detachably connected to and extending under the runner, a frame beneath and detachably connected to the body between the runners, a spindle mounted for rotation in the frame and extending through the body, a front axle fixedly connected



to and movable with the spindle, supporting wheels engaging the axle, and a handle bar detachably mounted on the spindle for holding it against withdrawal from the body.

2,157,462
GRINDING MILL
Bernhard Scherbaum, Munich, Germany, assignor, by mesne assignments, to Alexanderwerk A. Von Der Nahmer Aktiengesellschaft, Remscheid, Germany, a German company
Application November 26, 1935, Serial No. 51,661
In Germany November 29, 1934
8 Claims. (Cl. 83—3)

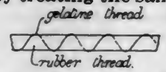


1. In a grinding mill the combination with a stationary disc and a movable disc coaxial with said stationary disc, said discs provided with intermeshing teeth projecting from the adjacent faces of the discs, said teeth being arranged in rings concentric with said discs and being curved along said concentric rings, the circumferential dimensions of the teeth diminishing in the direction from the center towards the periphery of said discs and the number of teeth in certain of the rings increasing in the direction from the center towards the periphery, the inner flanks of the teeth of the innermost row of said movable disc being composed of a face tangentially to a circle about the center of said rotatable disc, and of end faces being rounded, all of said teeth being arranged in rows directed from the center of the discs towards the periphery with lanes of interdental spaces between said rows, adapted to guide the material to be ground positively from the center to the periphery of the disc.

2,157,463
RUBBER PROCESS AND PRODUCT
Thomas Lewis Shepherd, London, England
Application February 15, 1937, Serial No. 125,935
In Great Britain February 19, 1936
8 Claims. (Cl. 18—54)

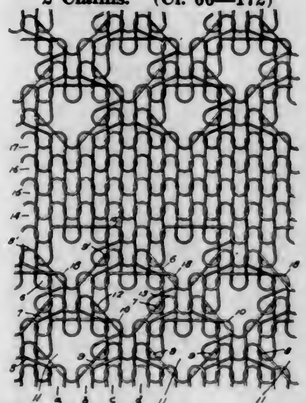
1. A method of rendering rubber thread relatively inextensible consisting in winding a soluble inextensible thread about the rubber thread,

causing the said soluble thread to adhere to the rubber thread by treating the same with a solvent



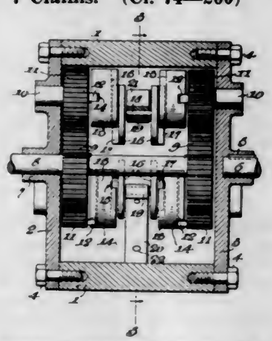
for the soluble thread, and drying the rubber thread thus treated.

2,157,464
ELASTIC STRAIN ABSORBER WITH LACE STITCH
Howard B. Snader, Temple, Pa., assignor to Vanity Fair Silk Mills, Reading, Pa., a corporation of Pennsylvania
Application January 16, 1939, Serial No. 251,220
2 Claims. (Cl. 66—172)



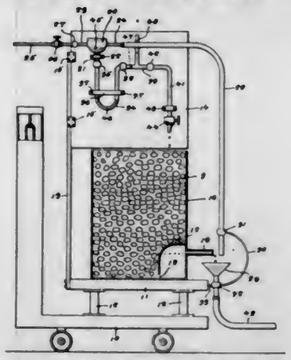
1. Knit hosiery having an integral two-way stretch strain absorbing zone, including a circumferential band of fabric knit from fine gauge rubber yarn, said band of fabric comprising a lattice of intersecting reinforcing ribs extending diagonally, and in opposite directions, with respect to the direction of the courses, and relatively movable about their points of intersection so as to narrow their longitudinally disposed opposite angles when the stocking is longitudinally stretched, thereby compensating by their effective length increase lengthwise of the stocking, for the diminution in elasticity which the ribs suffer incident to their thickness.

2,157,465
POWER TRANSMISSION MECHANISM
Henry A. Smitt, Fort Lewis, Wash.
Application November 29, 1937, Serial No. 177,116
7 Claims. (Cl. 74—260)



1. In a power transmission mechanism, two shafts, one a driving shaft and the other a driven shaft, a sun gear on one shaft and a planet gear carried by the other shaft to mesh with the sun gear, a third shaft paralleling the other shafts, means to mount said third shaft to be carried by said other shaft with the planet gear, an Oldham-coupling between said third shaft and said planet gear, said third shaft being adapted to be moved from said other shaft by centrifugal force, and spring means acting on said third shaft against the centrifugal force.

2,157,466
SALT SOLUTION FEEDING APPARATUS
Clair V. Swearingen, Chattanooga, Tenn.
Application October 6, 1938, Serial No. 233,669
4 Claims. (Cl. 210—36)

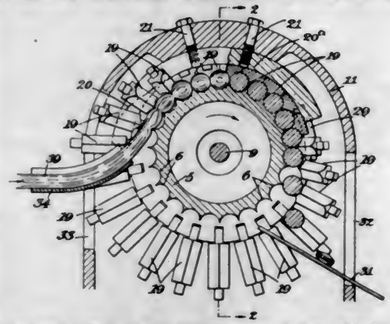


1. A salt solution feeding apparatus comprising a support, a reservoir on the support, means for directing water through the reservoir at a controlled rate of flow, means for collecting and conducting said water to a point of application, a U-tube on the support connected to the bottom of the reservoir for by-passing water from the reservoir, a burette connected to the outlet end of the tube for discharging the water from the tube at a predetermined rate of flow, a salt container on the support below the burette, into which the burette discharges, a baffle extending from one side wall of the container downwardly to nearly the bottom of the container, and an outlet pipe connected to the container near the top of the baffle for discharging salt solution from the container into said collecting and conducting means.

2,157,467
MACHINE FOR MOLDING AND EMBOSSING SWEETS
Hermann Thürlings, Viersen, Germany, assignor to Hansella Albert Henkel K. G., Viersen, Germany
Application March 17, 1938, Serial No. 196,488
In Germany March 20, 1937
6 Claims. (Cl. 107—15)

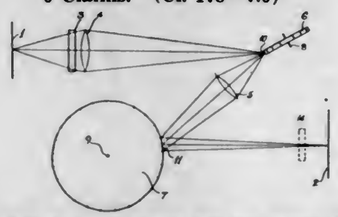
1. A machine for molding sweets in tablet or drop form from a rope of plastic sugar confectionery, comprising an endless train of molds adapted to sever pieces from said rope, means for moving said molds through a circuit, pairs of co-operating embossing elements in each of said molds, means for moving the embossing elements towards one another to mold and emboss the pieces, and means for moving adjacent pairs of embossing elements into embossing positions which are staggered relatively to one another and for retaining said elements in said staggered

positions until the molds are opened to release the tablets whereby adjacent tablets or drops



are severed from one another and are discharged singly from the machine.

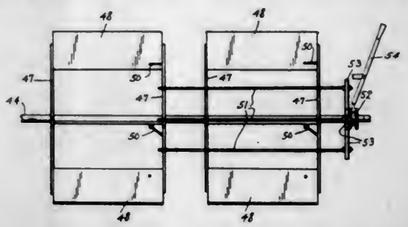
2,157,468
TELEVISION SCANNING SYSTEM
George William Walton, Kensington, London, England
Application April 15, 1936, Serial No. 74,569
In Great Britain April 25, 1935
6 Claims. (Cl. 178—7.6)



6. A television scanning system comprising a high-speed scanning member, a low-speed scanning member, each of said scanning members being mounted for movement angularly about an axis, a light source, an optical system situated between said light source and said high speed scanning member and having different optical powers in two mutually perpendicular directions, said optical system being adapted to form a first line image of the light source substantially on the surface of said high speed scanning member, the longer dimension of the first line image lying in the plane containing the direction of motion of said high-speed scanning member, and a second line image of said light source at a point distant from said high-speed scanning member, the longer dimension of the second line image being at right angles to the longer dimension of the first line image, and a second optical system situated between said high speed scanning member and the surface to be scanned and having different optical power in two mutually perpendicular directions, said second optical system being adapted to form two further line images having their longer dimensions mutually perpendicular on said surface, one of the further line images being an image of said surface of the high-speed scanning member.

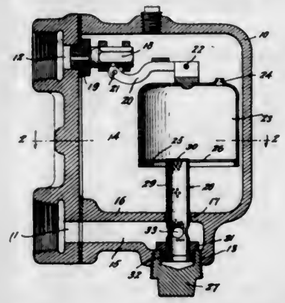
2,157,469
FAN FOR SEPARATORS
Lloyd E. Wright and Robert I. Wright, Albany, Oreg.
Application March 11, 1936, Serial No. 68,326
1 Claim. (Cl. 230—114)

For use in an air separator, a fan mechanism, including a rotary shaft, a pair of spiders fixed on the shaft in laterally spaced relation, each of said spiders comprising a plurality of radial arms, a plurality of fan blades mounted on said spiders in circumferentially spaced relation to the shaft and adjustable about axes parallel with that of the shaft, means to simultaneously adjust said blades during rotation of the shaft and into different set positions including a spider-like member shiftable along the shaft, a plurality of rods fixed to said member to extend laterally therefrom intermediate the blades, respectively, and slidably connected to one spider of said pair, operating connections between said rods and blades



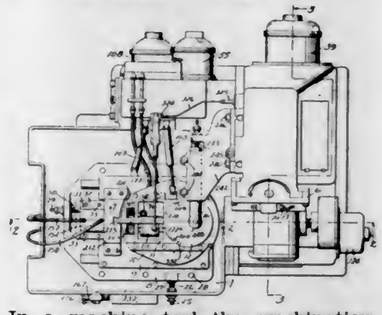
so constructed and arranged that endwise movement of the rods adjusts the blades, the connections between each blade and its corresponding part comprising a substantially U-shaped lever consisting of a base member lying along and journalled on one of the spider arms which support the fan blade, and two lever arms extending substantially at right angles from the ends of the base member, means connecting one of said lever arms to said rod, and a link connecting the other lever arm to said fan blade, and means for shifting the spider-like member including a lever operatively connected to the same.

2,157,470
STEAM TRAP
Thomas Napier Adlam, West Orange, N. J.
Application June 23, 1937, Serial No. 149,860
4 Claims. (Cl. 236—53)



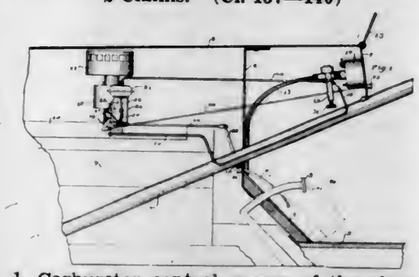
1. In a steam trap, a casing having inlet, outlet and cleanout ports, a removable closure plug for the cleanout port, a strainer having a perforated tubular wall and a perforated upper end wall carried by and protruding upwardly from the closure plug, a valve controlling the casing outlet, a lever for actuating said valve, an inverted bucket swingably carried by the lever and disposed over the upper end of said strainer, and means within the lower open end of said bucket cooperating with the upper end of the strainer to guide and limit the swinging movement of the bucket with reference to the lever.

2,157,471
MACHINE TOOL
Joseph B. Armitage, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application October 30, 1935, Serial No. 47,345
42 Claims. (Cl. 90—13.7)



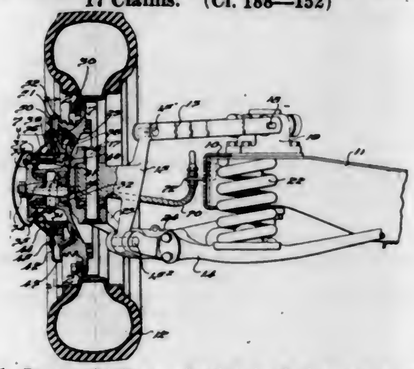
1. In a machine tool the combination with a tool support and a work support, of a pattern member, a follower member contacting said pattern member, and transmission and control mechanism including a first train for effecting relative movement of said follower member and said pattern member, a second train for effecting relative movement of said supports and controlled for direction and extent of support movement in accordance with the aforesaid relative movement of said pattern and follower members, another train for effecting relative movement of said supports, and independent control means for said other train operative to effect a direction and extent of support movement substantially corresponding to the direction and extent of movement that may be effected by said second train.

2,157,472
GOVERNOR FOR AUTOMOTIVE VEHICLES
Joseph Bellis, St. Paul, Minn.
Application May 6, 1935, Serial No. 19,927
2 Claims. (Cl. 137—140)



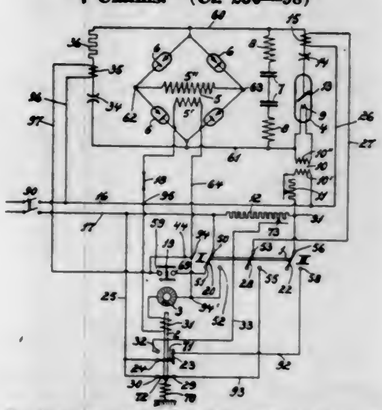
1. Carburetor control means of the class described, including a motor driven governor, fluid pressure actuated control means including a valve chamber, a contained valve element operated by the governor, ports in said valve chamber upon opposite sides of said valve connected to two sources of fluid at different pressures, said valve having a balanced position determined by said governor element at which no excess of either fluid is admitted to said fluid pressure actuated means, a spring element acting on said valve to hold said ports in balanced communication in an inactive position of the governor and to actuate said valve to cause an excess of fluid from one of the ports in the operation of said governor, and a valve passage communicable with atmospheric pressure on each side of the valve, for the purpose set forth.

2,157,473
BRAKE FOR MOTOR VEHICLES
Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application June 12, 1936, Serial No. 84,902
17 Claims. (Cl. 188—152)



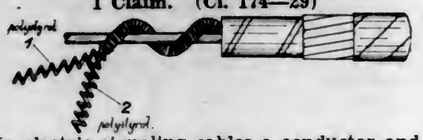
1. In a vehicle, a wheel spindle having a passage therein, a wheel rotatably mounted on said spindle, a brake drum carried with and extending outwardly from the exterior of the wheel, shiftable brake means mounted to engage the inner surface of the drum, an actuator device expansible to apply said brake means against said brake drum surface, hydraulic pressure means connected with the interior of said expansible actuator through the passage in said spindle, and means normally urging said brake drum means out of engaging relation with said brake surface.

2,157,474
METHOD AND INSTALLATION FOR TAKING X-RAY EXPOSURES
Albert Bouwers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application March 15, 1935, Serial No. 11,355
In Germany April 6, 1934
7 Claims. (Cl. 250—98)



1. In the process of taking X-ray exposures, the steps which comprise charging a condenser over a plurality of cycles and through a rectifier from a continuously operating source of current, imparting to the X-ray tube a low internal resistance, discharging said charge condenser through said tube and also passing through said X-ray tube a rectified current supplied from said source, while increasing the internal resistance of the tube to maintain the voltage applied to the tube at a value sufficient for generating effective X-rays during the entire exposure.

2,157,475
AIR SPACE INSULATED SIGNALING CABLE
Alfred Braun, Cologne-Mulheim, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany
Application November 21, 1936, Serial No. 112,157
In Germany November 27, 1935
1 Claim. (Cl. 174—29)



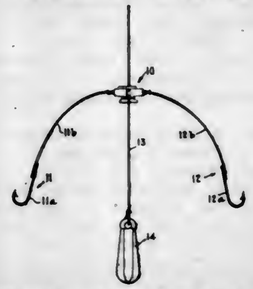
In electric signaling cables a conductor and a self-supporting compound helix forming an air-space insulation around the said conductor, which self-supporting compound helix is wound helically around the said conductor so that its axis runs helically around the conductor and the compound helix consisting of a plurality of thin helical threads of polystyrol forming separate helices coaxially with one another.

2,157,476
DISPENSING CONTAINER
Roman A. Brodesser, Chevy Chase, Md.
Application June 2, 1937, Serial No. 146,069
2 Claims. (Cl. 220—56)



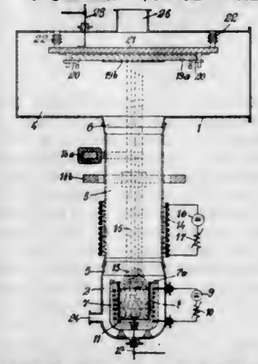
2. A dispensing container comprising a cylindrical tube formed of bendable material, the wall of said tube being provided with parallel elongated slots extending longitudinally of the tube at diametrically-opposed parts thereof and terminating adjacent the opposite ends of the tube, a disk-like follower member having a substantially circular body portion slidably fitted within the tube and having diametrically opposed extensions thereon which extend exteriorly of the tube through said slots, said follower being normally supported by said closure, and a flexible bag member slidably disposed within and lining said tube and having a bottom portion resting upon and attached to the follower member and having a normally open upper end portion extending above the upper end of the tube, the container member being adapted to receive a food product, and the upper end of the container being adapted to be twisted or folded in order to completely enclose the food product within the container.

2,157,477
FISHHOOK CONNECTOR AND SPREADER
Otto Bulow, St. Albans, N. Y.
Application December 20, 1937, Serial No. 180,910
5 Claims. (Cl. 43—28)



1. A new and improved fish hook connector and spreader of the type described, comprising a U-shaped member having a substantially centrally positioned opening formed therein and openings formed in each of the arms thereof, said last named openings being adapted to receive end loop portions of flexible lines carrying fish hooks thereon, an annular shaped member carried on and formed integral with said U-shaped member and positioned adjacent but above the centrally located opening formed therein, and a T-shaped lug carried on and formed integral with said U-shaped member and positioned adjacent but below the centrally located opening formed therein.

2,157,478
METHOD OF COATING ARTICLES BY VAPORIZED COATING MATERIALS
Wilhelm Burkhardt, Berlin-Grunewald, and Rudolf Reinecke, Berlin-Lankwitz, Germany, assignors to Bernhard Berghaus, Berlin-Lankwitz, Germany
Application June 15, 1937, Serial No. 148,384
In Germany June 17, 1936
7 Claims. (Cl. 91—70.1)



1. A method of coating articles by the vaporization of a coating material at sub-atmospheric pressure, consisting in first fusing the coating material and then vaporizing it at sub-atmospheric pressure connected up as a counter-electrode with respect to an accelerating electrode and, simultaneously therewith, charging the par-

ticles of vaporized material and concentrating them in the form of a beam proceeding from the fused material towards the surface to be coated by a magnetic field produced above the fused material independently of the fusing of the material and extending towards the surface to be coated.

2,157,479

LUBRICATING OIL COMPOSITIONS, INHIBITORS THEREFOR, AND METHODS OF MANUFACTURING THE SAME

Troy Lee Cantrell and John Gordon Peters, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 17, 1936, Serial No. 101,339
8 Claims. (Cl. 87—9)

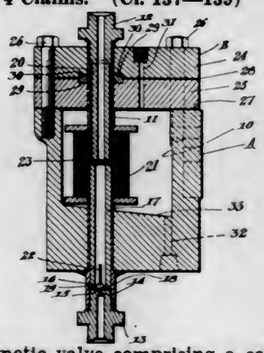
1. A method of preparing an oil-soluble phosphorus compound suitable as an improvement agent for hydrocarbon oils, which comprises reacting an olefin and a phenol in the presence of a catalyst, removing alkali-soluble material, treating at least a portion of the resultant product with phosphorus trichloride, and treating the product thereby obtained with a reagent selected from the class consisting of anhydrous ammonia and oil-soluble amines.

2,157,480

MAGNETIC VALVE

Lorne A. Cole, Brantford, Ontario, Canada, assignor to Waterous Limited, Brantford, Ontario, Canada

Application March 22, 1938, Serial No. 197,534
4 Claims. (Cl. 137—139)



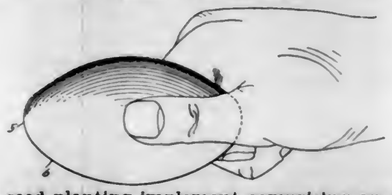
1. A magnetic valve comprising a casing having a fluid passageway therethrough, a tapered valve seat within the passageway, a gravity seating valve member normally positioned on said seat to prevent fluid from passing on through said passageway, a hollow plunger within said passageway having its lower end adjacent to said valve seat, said lower end of the plunger having at least one slot therein to permit the fluid to pass therethrough and having clawlike means to engage and grip a portion of said valve member while permitting another portion of said valve member to project below its lower end and into engagement with said valve seat when the plunger is in its normal position adjacent to said valve seat, the lower end of said plunger being tapered and seating on said tapered valve seat throughout that portion of the area of the latter surrounding the passageway and extending radially outward from the passageway to a substantial degree and electro-magnetic means for raising said plunger to unseat said valve member.

2,157,481

UTILITY TOOL

William R. Cothern, Scottsbluff, Nebr.

Application March 2, 1937, Serial No. 128,676
1 Claim. (Cl. 111—82)



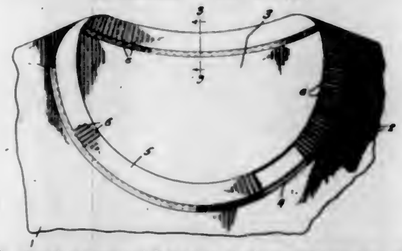
A seed planting implement comprising an oval body portion adapted to conveniently fit within the hand of the user, one end of the body portion being extended outwardly beyond the remaining portion of the edge of the body, the extended end of the body portion being also concaved and pointed whereby seed held in the body portion may be fed over the concaved surface of the body portion into an opening formed by the pointed end of the body portion.

2,157,482

KNIT UNDERGARMENT WITH ELASTIC NECK BAND

James H. Crossingham, Mount Airy, N. C., assignor to Mount Airy Knitting Company, Mount Airy, N. C., a corporation of North Carolina

Application October 13, 1937, Serial No. 168,824
3 Claims. (Cl. 2—90)



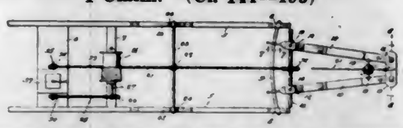
1. Knit garment having a circumferential elastic neck band characterized by the absence of an opening cleft, said neck band comprising a continuous circumferentially disposed collarette formed of folded knit material, the folds of which embrace the adjacent edge of the body material of the garment, a row of double needles elastic stitching uniting said collarette to said body material, and a continuous rubber band extending circumferentially of said neck band and confined within the zone of said stitching.

2,157,483

STUMP SPLITTER

Raymond R. Dunagin, Hattiesburg, Miss.

Application October 6, 1937, Serial No. 167,671
1 Claim. (Cl. 144—193)



In a device for splitting stumps, a support, a curved rod mounted on the support, spaced arms, means for pivotally connecting the outer ends of said arms, said arms having elongated openings

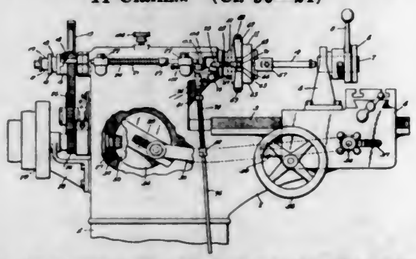
formed at the inner ends thereof adapted to receive the curved rod, slidably supporting the arms, said arms having threaded members, a threaded shaft extending into the threaded members, means for rotating the threaded shaft moving the arms towards and away from each other, and splitting blades on said arms for splitting the stump under treatment.

2,157,484

OIL GROOVING MACHINE

Albert F. Fischer, Philadelphia, Pa., assignor to William F. Fischer, Philadelphia, Pa.

Application July 21, 1937, Serial No. 154,877
11 Claims. (Cl. 90—24)



1. In a machine tool, the combination with a rotary spindle, of a carriage movable in a fixed path axially of said spindle, and means for synchronously actuating said spindle and carriage, a work-retaining chuck mounted on the carriage, and a tool holder carried by the spindle and comprising means operatable while the spindle is rotating for adjusting the position of the tool transversely of the spindle axis.

2,157,485

FOOD PRODUCT AND METHOD OF MAKING IT

John Hood Forkner, Fresno, Calif., assignor to J. C. Forkner, Inc., a corporation of Nevada

No Drawing. Application April 3, 1939, Serial No. 265,796
6 Claims. (Cl. 99—100)

1. A food product comprising a mass of baked dough and a cohesive, hygroscopic, and viscous fig fruit mixture adhering to the dough, said mixture containing fig pulp composed of finely milled figs in which the seeds and stems are pulverized and another fruit having a flavor predominating over the flavor of the fig.

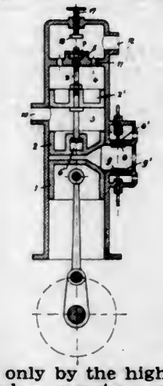
2,157,486

INTERNAL COMBUSTION ENGINE WITH ADJUSTABLE PRESSURE

Robert Geisslinger and Kurt Reinhold Greiner, Vienna, Austria

Application August 30, 1935, Serial No. 38,626
In Austria September 19, 1934
4 Claims. (Cl. 123—78)

1. In an internal combustion engine in combination with the working chamber of the cylinder and the working piston, two movable walls of which at least one closes the said working chamber, means to keep these walls on their side remote from the working chamber of the cylinder under practically constant pressure of a medium of pressure which is opposing the pressure within the said working chamber, said pressures being of a different force, the wall subjected to the lower counter-acting pressure being moved backward by the compression pressure within the cylinder, whereby the compression pressure is being kept constant regardless of the amount of the charge, the other wall being exposed to the higher counter-pressure will be



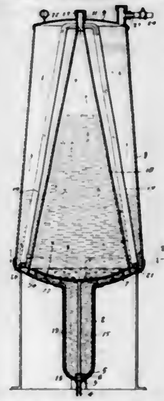
moved backward only by the higher combustion posed to the higher counter-pressure will be pressure, whereby potential energy is stored turned to the working piston.

2,157,487

APPARATUS FOR PRODUCING COMBUSTIBLE GAS

Arthur Holden and William A. Brown, Los Angeles, Calif., assignors to Gasolitor Co., Inc., Los Angeles, Calif., a corporation of California

Application April 17, 1936, Serial No. 74,950
3 Claims. (Cl. 261—122)



1. An apparatus for manufacturing a gas fuel from a low boiling point hydrocarbon oil, comprising an oil containing tank having a depending well of reduced size therebelow, an inlet for air into said well, priming pipes extending from the main tank with outlets for priming oil adjacent the air inlet, and means within said tank for spreading the air in the tank and contacting the same with oil therein.

2,157,488

PECTO PHENOLIC SYNTHETIC RESIN AND METHOD OF MAKING SAME

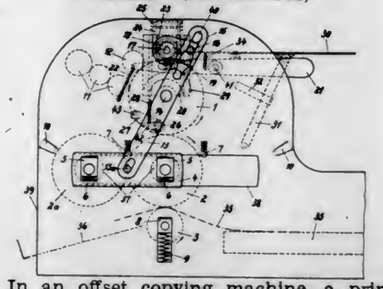
Richard Holzcker, Lake Wales, Fla.

No Drawing. Application October 27, 1936, Serial No. 107,903
2 Claims. (Cl. 260—10)

1. Synthetic resin, resulting from the condensation in a hot aqueous acid solution, of the

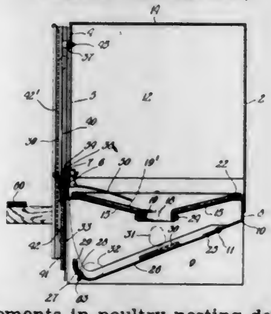
pectous compounds extracted from pectous vegetable wastes in said solution, the condensation having been effected with phenol introduced into said solution.

2,157,489
OFFSET ROTARY COPYING MACHINE
Leo Kluitmann, Dusseldorf, Germany
Application July 21, 1937, Serial No. 154,894
In Germany July 24, 1936
7 Claims. (Cl. 101—144)



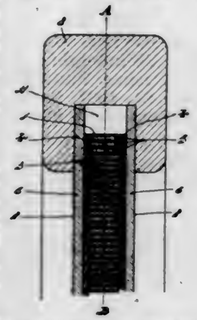
1. In an offset copying machine, a printing cylinder, means for securing a foil on the printing cylinder, an offset cylinder, the combination of means operatively connected to the printing cylinder for moving the offset cylinder into and out of active position with respect to the printing cylinder, with means for cleaning the offset cylinder when it is in inactive position.

2,157,490
POULTRY NEST
Louis Lindenberg, Rapid City, Manitoba, Canada
Application December 11, 1937, Serial No. 179,238
1 Claim. (Cl. 119—47)



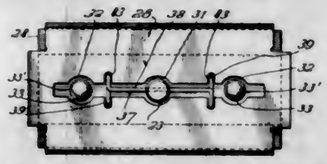
Improvements in poultry nesting devices comprising, in combination, a nest proper provided with an egg depositing aperture therein, a housing, the upper interior portion of said housing being designed for occupation by a sitting hen, the lower portion thereof consisting of an egg receiving compartment, an entrance aperture in alignment with said upper interior portion, a spring actuated vertically slidable door, a trigger extending into said upper interior portion, a mechanism co-acting with said trigger for normally maintaining said door in substantially horizontal alignment with said egg receiving compartment, actuation of said trigger by said hen allowing said door to rise and cover said aperture to imprison said hen, and an inclined plane within said egg receiving compartment down which an egg may roll after delivery through said egg depositing aperture by a hen seated upon said nest proper

2,157,491
DEVICE FOR SCREENING-OFF SECONDARY X-RAYS
Gustav Adolf Lindstedt, Stockholm, Sweden, assignor to Aktiebolaget Linham, Stockholm, Sweden
Application April 24, 1937, Serial No. 138,847
In Sweden April 28, 1936
11 Claims. (Cl. 250—63)



1. A device for screening-off secondary X-rays having a grid comprising strips of lead alternating with layers of moisture absorbing material and a protective cover on either side of said grid, said cover comprising a stiff sheet of a material pervious to X-rays and an intermediate layer of an adhesive, retaining its plastic consistency for a considerable time and permitting some sliding of the grid with relation to the sheet.

2,157,492
RAZOR
Callard Livingston, Chicago, Ill., assignor of one-half to James A. Davis, Highland Park, Ill.
Application April 8, 1935, Serial No. 15,200
17 Claims. (Cl. 30—44)

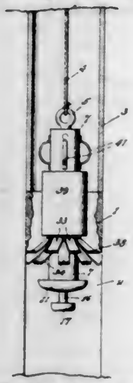


1. A safety razor comprising a blade seat, a blade cover, a blade slidable therebetween in response to the force of cutting resistance in the direction opposite the direction of cutting movement of the blade, and a blade driver mounted between said blade seat and said blade cover and energizable by the sliding of the blade in the first said direction for driving the blade in the opposite direction.

2,157,493
WELL SCRAPER
Melvin Miller and Leon N. Davis, Flushing, Mich.
Application April 29, 1938, Serial No. 205,111
10 Claims. (Cl. 166—18)

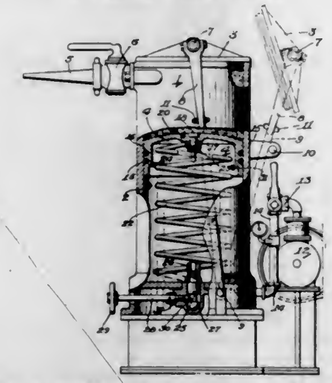
1. A well scraper comprising a body, scraping arms about said body extending longitudinally thereof and normally extending outwardly therefrom for engagement with walls of a well, a member movable into and out of position to retain the scraping arms in a retracted position, guiding means projecting from said body for engaging walls of a well, means for moving said retainer to a releasing position adapted to be actuated by

engagement with the bottom of a well, and releasable means for holding said retainer in its ad-



justed position with the scraping arms in their extended position.

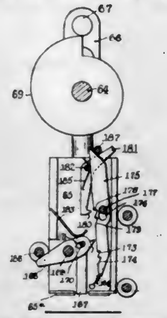
2,157,494
MEAT STUFFER
George R. Napier, East Lansdowne, Pa.
Application October 8, 1936, Serial No. 104,717
8 Claims. (Cl. 17—39)



8. In a stuffing device of the character described including a chamber, an inverted substantially cup-shaped piston arranged to slide within said chamber, coil spring connected to said piston at the pressure side thereof and arranged when contracted to nest upwardly within the piston, a locking element having the other end of said spring connected thereto, and mechanism arranged externally of the pressure end of the chamber operative at will to releasably engage said locking element and anchor the same and the adjacent end of the spring at said end of the chamber.

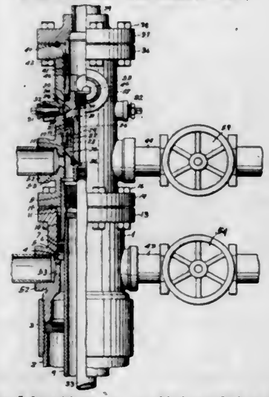
2,157,495
PERMIT MAILING AND STAMPING MACHINE
Robert Severin Nilsson, Le Vesinet, France, assignor to Société Anonyme des Etablissements Cuttat, Rueil-Malmaison, France
Application July 30, 1935, Serial No. 33,883
In France August 4, 1934
2 Claims. (Cl. 101—368)

1. In a permit mailing and stamping machine, a printing element having an impression face, means for raising and releasing said printing element whereby, during its fall, the impression is made, fingers movably mounted on said printing element, means for resiliently holding said fingers



in a position projecting beyond said impression face during the descent of the printing element, and means for locking said fingers in projecting position only during the ascent of said printing element.

2,157,496
COMBINED TUBING HEAD AND BRADEN HEAD
Kirby T. Penick and Arthur J. Penick, Houston, Tex.
Application December 16, 1935, Serial No. 54,685
8 Claims. (Cl. 285—22)

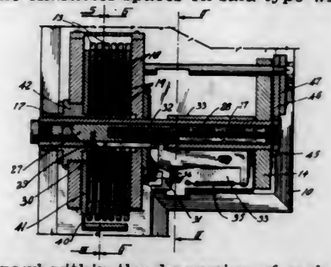


1. In combination, a well head having a seat therein, a tubular hanger in said head outwardly movable means on the hanger whereby the hanger is supported by the seat, a pipe connected to the hanger, a tubing head fitted closely around the upper end of the hanger and incorporated into the well head.

2,157,497
MARKING MACHINE
William S. Petty, Denver, Colo., assignor of two-thirds to Russell Young and William Young, both of Denver, Colo.
Application April 20, 1937, Serial No. 137,961
7 Claims. (Cl. 101—110)

1. In a marking machine: a series of disc-like type wheels having printing characters around their periphery; a hollow shaft serving as a support for said wheels; a key projecting from said shaft; means for moving said key along said shaft to successively engage said wheels; a depression

formed in the side of each wheel; a ratchet wheel secured to each type wheel in said depression, the teeth of said ratchet wheel corresponding in number to the character spaces on said type wheel; a



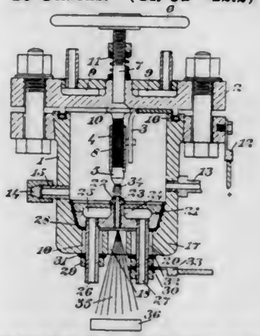
ratchet pawl within the depression of each wheel in engagement with said teeth to stop said wheels at predetermined positions; and means for holding said ratchet pawls stationary as said type wheels rotate.

2,157,498

APPARATUS FOR THE PRODUCTION OF METALLIC COATINGS

Rudolf Reinecke, Berlin-Lankwitz, and Wilhelm Burkhardt, Berlin-Grunewald, Germany, assignors to Bernhard Berghaus, Berlin-Lankwitz, Germany

Application January 25, 1937, Serial No. 122,328
In Germany February 1, 1936
10 Claims. (Cl. 91—12.2)



1. An apparatus for producing metal coatings by the vaporisation of a metal in an electric arc comprising a pressure chamber, two electrodes lying opposite each other within the said chamber between which an electric arc can be formed and electric leads to the said electrodes, the pressure chamber having an opening for the admission of a gaseous pressure means into the chamber, and one of the said electrodes being mounted in the wall of the chamber and being hollow so as to form a passage leading from the interior of the chamber to the outside thereof, the pressure chamber being otherwise closed, whereby a pressure can be maintained therein and the metal vaporised leave the chamber together with the gaseous medium under the action of the latter through the said hollow electrode.

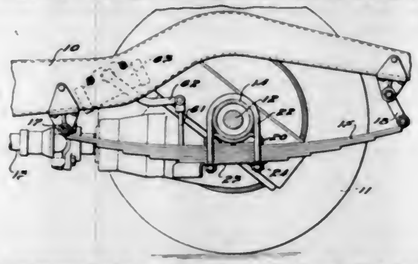
2,157,499

MOTOR VEHICLE

Peter F. Rossmann, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application April 3, 1936, Serial No. 72,546
6 Claims. (Cl. 267—52)

1. In a connecting structure for an axle housing and a spring, a seat member formed of a sheet of metal bent to provide end portions with similar faces aligned to provide a flat base, and



an intermediate portion looped above the base, said looped portion being reversely bent to form a seat.

2,157,500

DERRICK

Myron W. Sarsfield and Clyde L. Conklin, Graham, Tex.

Application January 24, 1935, Serial No. 3,299
3 Claims. (Cl. 189—12)



1. A unitary derrick structure comprising a plurality of tubular sections, said tubular sections each comprising a pair of legs permanently connected by cross bracing members and the legs of one section adapted to be positioned in endwise relation with respect to the legs of an adjacent section, coupling means between the ends of sections, and truss means for the sections comprising a pair of longitudinal truss rods extending along opposite sides of each leg in planes normal to the plane defined by the connected leg members of the sections, means adjacent the connected ends of the sections spacing said rods from the legs, and tie means between the corresponding meeting ends of the truss rods for drawing the sections together

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2,157,501

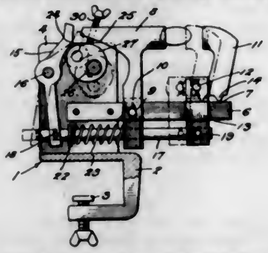
NUTCRACKER

Walter A. Settle, Tulsa, Okla.

Application December 11, 1936, Serial No. 115,410
4 Claims. (Cl. 146—16)

1. Nut cracker comprising a frame including a bar, a hammer pivotally mounted on said bar and an anvil unit including a carriage closely embracing said bar and reciprocable thereupon in a direction toward and away from said hammer,

said anvil unit including also an anvil pivotally mounted on said carriage, offset therefrom in the direction remote from said hammer and having a fulcrum portion normally contacting said bar under the weight of said anvil, said hammer and anvil having coacting nut-cracking faces, said hammer including means engageable with said frame for determining a normal position of repose for said hammer, actuating means for re-



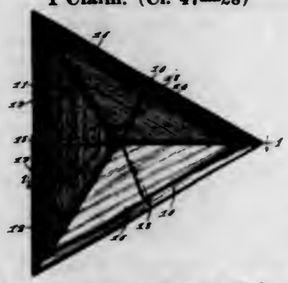
ciprocating said carriage, a spring normally urging said hammer into its position of repose and retracting said anvil unit yieldingly toward said hammer, and means for periodically moving said hammer against the tension of said spring from its position of repose into nut-cracking proximity to said anvil, said anvil fulcrum preventing recession of said anvil in response to the blow of said hammer.

2,157,502

PLANT PROTECTOR

Starkie N. Slade, Sr., Durham, N. C.

Application June 28, 1937, Serial No. 150,853
1 Claim. (Cl. 47—28)



A plant protector comprising a hollow upwardly tapering body formed of transparent sheet material of which one wall is provided with an air inlet at the bottom, the body having an air discharge at the top, and opaque sheets within the body and secured at their edges to certain of the walls thereof, the lower edges of said sheets being unattached to the body and the sheets at these edges being longer than the distance between the points of attachment of sheets with the body, so that the former will fall away from the body to provide dead air pockets in connection with the walls of the body.

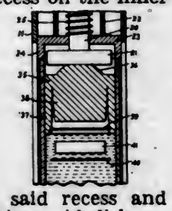
2,157,503

AMPOULE SYRINGE

Arthur E. Smith, Los Angeles, Calif.

Application April 10, 1936, Serial No. 73,654
2 Claims. (Cl. 128—218)

2. An ampoule having a cylindrical wall and having a cork therein, said cork being made of rubber including a body having a protuberance at the outer end, said body having a boss on the face opposite said protuberance and having a skirt spaced from said boss, said skirt having a circumferential recess on the inner wall thereof,



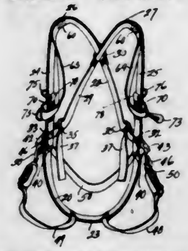
a disk seated in said recess and a medicinal preparation engaging said disk.

2,157,504

PARACHUTE HARNESS

Floyd Smith, Buffalo, N. Y., assignor to Irving Air Chute Co. Inc., Buffalo, N. Y., a corporation

Original application March 31, 1937, Serial No. 134,109. Divided and this application January 7, 1938, Serial No. 183,923
4 Claims. (Cl. 244—151)



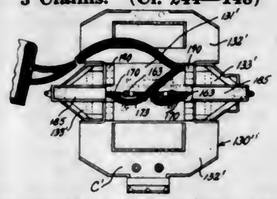
1. Parachute harness comprising a U-shaped supporting sling including a seat portion and riser webs, back strap means connected with the sling, breast straps connected with the riser portions adjacent the shoulder of a wearer and extending freely forwardly in looped relation and each connected with the adjacent side riser portions of the sling adjacent to the normal waist of a wearer, and definitely fixed and located coupling members connected with each of the riser portions of the harness at a location above where the breast straps are connected with said riser portions.

2,157,505

PARACHUTE PACK

Floyd Smith, Buffalo, N. Y., assignor to Irving Air Chute Co. Inc., Buffalo, N. Y., a corporation

Original application March 31, 1937, Serial No. 134,109. Divided and this application March 14, 1938, Serial No. 195,884
3 Claims. (Cl. 244—148)



2. In an emergency parachute pack a container having a plurality of fixed coupling parts thereon, a parachute having shroud lines, means connecting said shroud lines in bunched relation upon said couplings, a separate cable construction connecting said couplings together, and pocketing means on the container for housing

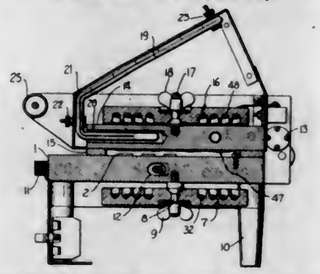
said shroud lines in lengths which run parallel with the cable that connects said coupling parts together.

2,157,506

LIGHT-SENSITIVE CELL MANUFACTURE

Cyril S. Treacy, Scarsdale, N. Y., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application March 6, 1935, Serial No. 9,585
1 Claim. (Cl. 201—63)



The method of simultaneously and similarly depositing selenium on a plurality of individual cells each having a pair of electrodes thereon which comprises heating all of said plurality of cells uniformly to substantially the same temperature, regulating said temperature to maintain said cells within a range of temperature between 140° C. and 145° C., and separately regulating the temperature of said selenium paste to maintain said temperature within a range of between 245° C. and 295° C.

2,157,507

PROCESS FOR PRODUCING MATERIALS FOR REMOVAL OF CERTAIN HALIDE IONS FROM WATER

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

No Drawing. Application November 27, 1935, Serial No. 51,966. Renewed October 25, 1938
4 Claims. (Cl. 23—85)

4. A process for preparing a material suitable for use in the removal of halide ions, with the exception of the chloride ion from water comprising intimately mixing and grinding together measured parts of silicic acid and a reagent selected from the group consisting of $FeCl_3$ and $BaCl_2$ and fusing the mixture and thereafter removing soluble salts from the fused mass.

2,157,508

PROCESS FOR THE RECOVERY OF IODIDES, AS IODINE FROM WATER

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

No Drawing. Application November 27, 1935, Serial No. 51,967. Renewed October 25, 1938
3 Claims. (Cl. 23—217)

3. A step in the process for recovering iodides as iodine from water comprising subjecting the iodide bearing solution to the action of an exchange material having a solubility in water of less than 0.3 gram per liter and prepared by effecting fusion of the reactants of the following equation:

$$2M(Cl)_x + H_2SiO_3 \rightarrow SiO[O—M(Cl_{x-1})]_2 + 2HCl$$

wherein $M(Cl)_x$ represents a metal chloride selected from the group consisting of ferric chloride and barium chloride.

2,157,509

PROCESS FOR THE REMOVAL OF FLUORIDES FROM WATER

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

No Drawing. Application November 27, 1935, Serial No. 51,968. Renewed October 18, 1938
13 Claims. (Cl. 210—23)

1. A process for the removal of fluorides from water comprising passing a fluoride bearing solution through a filter charged with an exchange material having the general formulae:

$$\rightarrow Si—O—M(Cl)_x$$

in which M designates a metal having a valence of two or more and x designates the valence of the metal minus one.

2,157,510

PROCESS FOR EFFECTING ANION EXCHANGE

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

No Drawing. Application May 19, 1937, Serial No. 143,628
4 Claims. (Cl. 23—1)

1. A process for effecting anion exchange in aqueous liquids which comprises reacting the liquid containing anions with a metal silicate salt containing within its molecule, and attached to the silicon atom thereof, one or more —O—M—A groups in which O represents oxygen, M represents a polyvalent metal, and A represents an ionizable anion of a water soluble inorganic acid.

2,157,511

PROCESS FOR EFFECTING ANION EXCHANGE

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

No Drawing. Application May 19, 1937, Serial No. 143,631
4 Claims. (Cl. 23—1)

1. A process for effecting anion exchange in aqueous liquids which comprises reacting the liquid containing anions with a compound containing within its molecule at least one —M—A group and a radical composed of an amphoteric metal atom and at least two oxygen atoms attached thereto, each —M—A group being linked by valence to one of said oxygen atoms, and in which group M represents a polyvalent metal and A represents an ionizable anion of a water soluble inorganic acid.

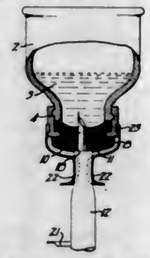
2,157,512

INK CONTAINER AND CLOSURE

William G. Watt, Laramie, Wyo., assignor of one-half to S. G. Parker, Laramie, Wyo.

Application May 13, 1937, Serial No. 142,399
2 Claims. (Cl. 120—68)

1. A closure for an ink bottle comprising a stopper having a slit therein through which the point of a fountain pen may be inserted, said stopper being elastic and of such thickness that the slit surfaces form a sealing contact with the pen point over the major portion of its length, and means for compressing the lower portions



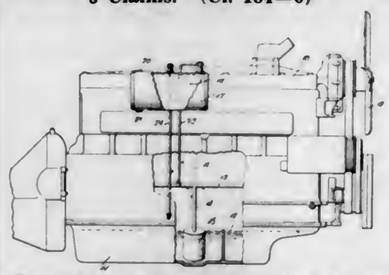
of the stopper to squeeze the lower edges of the slit together and to slightly open the upper edges of the slit.

2,157,513

LUBRICATING SYSTEM FOR INTERNAL COMBUSTION ENGINES

Samuel L. Walden, Atlantic City, N. J., assignor of one-half to Emerson Richards, Atlantic City, N. J.

Application February 7, 1936, Serial No. 62,837
6 Claims. (Cl. 184—6)



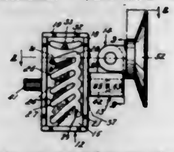
1. In an internal combustion engine having a crank case and a pressure oil distributing passage, the combination of an oil-filled tank, and means for continuously introducing oil from said passage into the tank and for discharging an approximately equal volume of oil from the tank into the crank case, said means comprising a connecting pipe between said distributing passage and the top of said tank and an independent connection between the top of said tank and the crank case.

2,157,514

BRAKE TESTER OR ACCELEROMETER

Jack Van Horn Whipple, Sellersville, Pa., assignor to United States Gauge Company, Sellersville, Pa., a corporation of Pennsylvania

Application November 16, 1935, Serial No. 50,208
10 Claims. (Cl. 264—1)



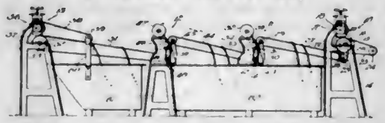
1. A brake tester or accelerometer for a vehicle comprising a frame extending in the direction of movement of said vehicle and provided with a runway consisting of a plurality of inclined sections disposed one above the other, adjacent sections being connected together by a curved passage, and a single ball disposed in said runway for movement therealong in proportion to the change in velocity of said frame.

2,157,515

METHOD OF TREATING ANIMAL CASINGS

Henry J. Wollweber, Chicago, Ill., assignor, by mesne assignments, to Oppenheimer Casing Co., Chicago, Ill., a corporation of Delaware

Application June 17, 1936, Serial No. 85,690
6 Claims. (Cl. 17—43)



1. The continuous method of loosening and removing mucus, fat and the like from an animal casing comprising the steps of successively squeezing, first crushing, second crushing, and again squeezing the casing, the second crushing step substantially affecting those portions of the casing not treated by the first crushing step whereby substantially the full length of the casing is subjected to a crushing action and the casing being substantially free from tensional pull between successive steps.

2,157,516

WASHER

Leonard A. Young, Detroit, Mich.

Application October 18, 1937, Serial No. 169,533
4 Claims. (Cl. 85—50)



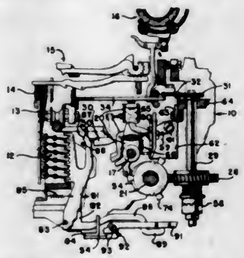
2. A washer formed of an endless wire element conformed to provide a plurality of separate segmental annularly disposed inner reaches having adjacent portions in close angular relation to provide a substantially continuous bolt receiving opening, and a plurality of segmental annularly disposed outer reaches of greater radius and arc than said inner reaches and generally concentric therewith, said inner and outer reaches being integrally connected at their ends, and the outer reaches having adjacent portions in close angular relation to provide a substantially continuous periphery for the washer.

2,157,517

PRINTING TELEGRAPH APPARATUS

Raymond E. Zenner, Brookfield, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

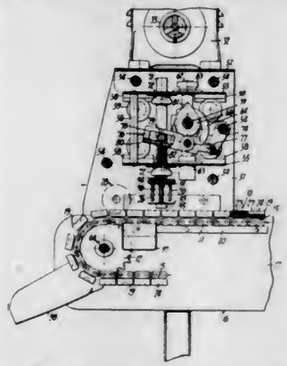
Application July 16, 1937, Serial No. 154,052
17 Claims. (Cl. 178—25)



1. In a telegraph printer, mechanism operable

under certain operating conditions, other mechanism operable under the control of said mechanism, a traveling carriage, means carried on said carriage to control arresting functions, an instrumentality actuated by said means and operable in a predetermined manner to suppress the operation of said other mechanism, and an element actuated by said instrumentality to effect the arrestment of operation of both of said mechanisms when said carriage reaches a predetermined position.

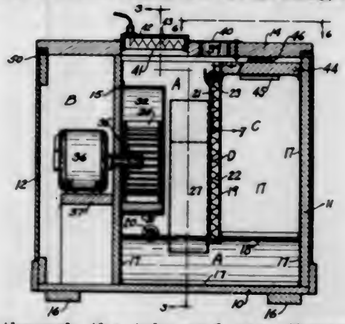
2,157,518
FRUIT PITTER
George W. Ashlock, Jr., Oakland, Calif.
Application January 8, 1938, Serial No. 184,007
4 Claims. (Cl. 146—19)



1. A fruit pitting mechanism comprising a succession of carriers movable at a substantially constant rate of advance over a path including a substantially horizontal portion of substantial length, pitting mechanism mounted over said carriers adjacent an end of said horizontal portion and movable to engage and pit fruit on said carriers; and means for moving said pitting mechanism including a sliding reciprocating head movable back and forth above at least a portion of said horizontal portion over a path parallel to that of said carriers, means for advancing said head in a straight line in the direction of advance of said carriers at the same rate of advance over a portion of said path to maintain said pitting mechanism for a predetermined time interval superimposed over a carrier, and means for lowering said pitting mechanism during said interval to engage and pit fruit on said carrier and for raising said pitting mechanism from engagement with said fruit.

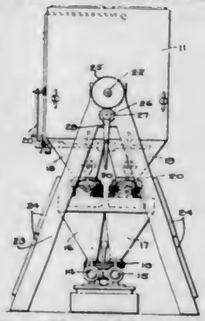
2,157,519
AIR CONDITIONING APPARATUS
Henry F. Beeman, Denver, Colo.
Application March 10, 1938, Serial No. 195,025
8 Claims. (Cl. 261—11)

1. An air cooling and humidifying device, comprising in combination, a housing having a removable cover, a fan having an inlet opening and an outlet, the inlet being in communication with the interior of the housing, the outlet being in communication with the space about the housing, means comprising an electric motor for operating the fan, and an air inlet tube extending downwardly with its air delivery end opening adjacent the bottom of the housing, whereby when there is a quantity of water in the housing it will cover the opening in the tube, wherefore when the fan operates to remove air from the housing, air will



enter through the tube and pass through the water covering the opening therein.

2,157,520
APPARATUS FOR HANDLING FOAM CHEMICALS
George Blair, Berwyn, Pa., assignor to National Foam System, Inc., Philadelphia, Pa., a corporation of Delaware
Application July 21, 1936, Serial No. 91,658
2 Claims. (Cl. 221—120)



1. In a fire extinguishing apparatus for the formation of fire extinguishing foam by the intermixture of water with dry powdered foam-forming materials and comprising hopper means for receiving dry powdered foam-forming materials and directing the same into flowing water for cooperation therewith to produce fire extinguishing foam; in combination a framework disposed to enclose said hopper, a chamber mounted on said framework for rotation about a horizontal axis, said chamber being disposed over said hopper and having a valved discharge outlet in its bottom over said hopper to permit the ready flow of the powdered material into said hopper in case of fire, and means for rotating said chamber about the horizontal axis for the occasional inversion of the chamber to subject the powdered material to any existing vibration to maintain it in a flowable condition.

2,157,521
DEVICE FOR APPLYING A COATING TO FABRIC
Maxwell H. Bloomberg, Brighton, Mass.
Application November 27, 1937, Serial No. 176,868
2 Claims. (Cl. 91—25)

1. A device for applying plaster to a roll bandage comprising a pan including a bottom wall, a pair of side walls and a pair of end walls, said end walls having slots in their lower ends, and said side walls at one end of the pan projecting beyond the adjacent end wall, a transverse member supported by said side wall extensions for supporting a bandage roll, a brush supported in the pan adjacent the other end wall, the plaster being placed in the pan between the brush and the first-mentioned end wall and on that portion of the strip of bandage which passes between the first-mentioned end wall and the brush, said bot-



tom wall having a platform forming extensions at its rear end for forming a rest for a portion of the strip after the same is passed through the pan, a depending flange at the rear end of the bottom wall of the platform, a horizontal foot portion connected with the lower edge of the flange, uprights on said foot portion, a shaft journaled in the uprights for receiving an end of the treated strip, a small receptacle in which the foot portion rests and a leg member depending from the front end of the pan.

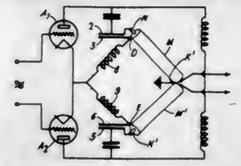
2,157,522
ELECTRIC SIGNAL TRANSMISSION LINE
Alan Dower Blumlein, Ealing, London, England, assignor to Electric & Musical Industries, Ltd., Hayes, Middlesex, England, a corporation of Great Britain
Application January 30, 1937, Serial No. 123,100
In Great Britain February 13, 1936
7 Claims. (Cl. 179—78)



1. In a signal transmission system employing a coaxial cable having a transmitting end and a receiving end terminated in an invariant impedance whose value is substantially equal to the surge impedance of the cable, the method of reducing electrical interference of energy components below a predetermined frequency, which comprises the step of supplying signals to the cable at the transmitting end through an invariant impedance whose value at the predetermined frequency is high compared to the surge impedance of the cable.

2,157,523
COUPLING DEVICE
Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application September 9, 1935, Serial No. 39,806
In Germany August 3, 1934
7 Claims. (Cl. 178—44)

7. A short wave coupling device comprising input and output terminals, a symmetrically arranged pair of electron discharge tubes, a tuned circuit interposed between said input and output terminals having at least two inductive and capacitive elements connected to said electron discharge tubes, means for compensating any undesired inductive component in said tuned circuit, said means comprising two portions of an inner and outer concentrically arranged conductor, both portions of said conductors being of suitable length to form a bridge circuit with said inductive elements, the upper ends of the inner conductors being connected to one electrode of said capacitive elements, the lower ends of said inner conductors being connected to the output terminals, said outer conductors being



connected together and grounded at one end and having their outer portions connected to said inductive elements and the other electrodes of said capacitive elements, the input ends of said conductors being symmetrically coupled to at least two series connected capacitive elements forming said tuned circuit.

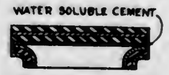
2,157,524
PREPARATION OF CHLORINE MONOXIDE
George H. Cady, Wadsworth, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application February 15, 1938, Serial No. 190,618
16 Claims. (Cl. 23—152)

1. A process of preparing chlorine monoxide which comprises contacting a solid compound of the group consisting of the carbonates and bicarbonates of the alkali metals, with sufficient chlorine and at a temperature sufficiently high to cause evolution of gaseous chlorine monoxide.

2,157,525
PREPARATION OF CHLORINE MONOXIDE
George H. Cady, Wadsworth, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application June 29, 1938, Serial No. 216,475
19 Claims. (Cl. 23—152)

1. A process of preparing chlorine monoxide which comprises contacting a solid alkaline compound of the alkali metals with sufficient chlorine and at a temperature sufficiently high to cause evolution of a substantial quantity of chlorine monoxide.

2,157,526
SEALING SURFACE MEMBER
Newcomb K. Chaney, Cleveland Heights, and Edwin F. Kiefer, Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application July 21, 1934, Serial No. 736,306
9 Claims. (Cl. 251—27)



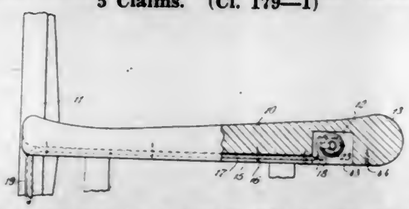
6. A valve repair assembly comprising a washer; and a valve seat repairing means secured to said washer by a water-soluble cement; said means comprising a metallic ring substantially the shape of the valve seat, and resilient means secured to said ring on the side adapted to engage the valve seat.

2,157,527

TELEPHONE JACK BOX FOR CHAIR ARMS

Carole A. Clarke, Chatham, N. J., and Joseph A. Malmuth, Brooklyn, N. Y., assignors to Dictograph Products Company, Inc., New York, N. Y., a corporation of New York

Application April 15, 1937, Serial No. 136,964
5 Claims. (Cl. 179—1)



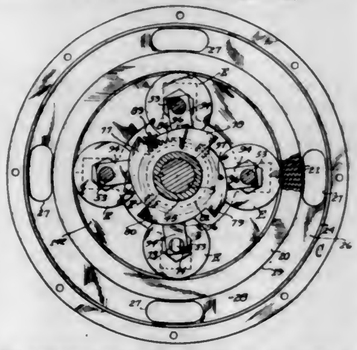
2. In an arm for a theater seat or the like, the combination of an elongated member having a longitudinally extending passageway and an enlarged recess adjacent one end thereof communicating with said passageway, at least one jack mounted in said recess and accessible for insertion of a plug from the exterior of said member, and wires disposed in said passageway electrically connecting the jack to a sound distributing cable.

2,157,528

MACHINE FOR FORMING COMPRESSED FEEDS AND SIMILAR PRODUCTS

Duane Crabtree, Springfield, Oreg., assignor to Western Pellet Machine Corporation, Eugene, Oreg., a corporation of Oregon

Application May 15, 1936, Serial No. 79,933
27 Claims. (Cl. 107—8)



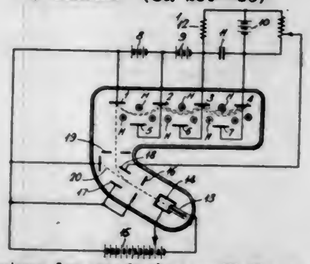
1. In apparatus of the class described, a die supporting block, a stationary ring shaped die member removably secured to the die supporting block, an annular reinforcing ring removably secured to the top of the die member, said ring having an annular projection extending upwardly therefrom, a shaft passing through the die supporting block and rotatably disposed with respect thereto, a double flanged member secured to the shaft and disposed within the area surrounded by the die member, but in spaced relationship with said die member, each flange of said member having a plurality of open ended slots therein, the slots of one coinciding with the slots of the other, a plurality of rollers rotatably retained between pairs of said coinciding open ended slots, a multi-cammed member rotatably disposed about the hub of said double flanged member, a pair of cam arms secured to each of the rollers and adapted to normally ride against the corresponding cam faces of the multi-cammed member, means associated with the upper flange of the double flanged member for actuating the multi-cammed member to thereby simultaneously move said rollers toward or away from the inner face of the die, a plurality of feeder assemblies, one for each roller being associated with said rollers and disposed between the flanges of the double flanged member and adapted to slightly compress and direct toward the die the materials being processed, a scraper element, one for each roller resiliently held against the inner face of the die for scraping the material off of that portion of the die not contacted by the face of the rollers, an annular ring having an annular recess within its underside rotatably positioned upon the annular reinforcing ring so that its recess coincides with the projection of the reinforcing annular ring, a plurality of members securing the recessed annular ring to the upper flange of the double flanged member, and a plurality of knife blades secured to the recessed annular ring and tensioned against the outer face of the die.

2,157,529

RELAXATION OSCILLATOR

Paul Drewell, Berlin Reinickendorf, and Eberhard Steudel, Berlin-Dahlem, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 20, 1937, Serial No. 154,540
In Germany July 24, 1936
6 Claims. (Cl. 250—36)



1. A system for producing oscillations of sawtooth wave form comprising a condenser, a resistance and a source of current connected in a series circuit whereby the condenser is charged linearly by the source of current through the resistance, and means including a secondary electron emissive device for substantially instantaneously discharging said condenser.

2,157,530

PROCESS FOR PRODUCING LOW SUBSTITUTED ALKYL CELLULOSES

Deane C. Ellsworth, deceased, late of Wilmington, Del., by Joseph F. Haskins, administrator, Wilmington, Del., and Frederick C. Hahn, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 22, 1933, Serial No. 681,760. Renewed March 16, 1939
22 Claims. (Cl. 260—231)

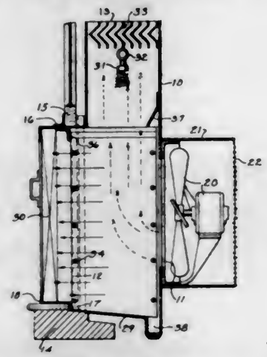
1. The process of preparing low substituted alkyl cellulose soluble in dilute sodium hydroxide solution at about the freezing point but not practically soluble at ordinary temperatures which comprises reacting substantially undegraded alkali cellulose with an alkylating agent, the alkyl group of which contains from one to two carbon atoms under non-oxidizing conditions, at etherifying temperature, not above about 50° C.

2,157,531

COMFORT COOLING UNIT

Ernest F. Fisher, Springfield, Ill.

Application April 30, 1936, Serial No. 77,241
1 Claim. (Cl. 62—139)



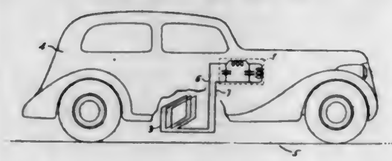
In an apparatus of the class described, in combination, a casing adapted to fit an opening in the wall of a building, a series of substantially vertical plates extending longitudinally of the casing and dividing it into separate air passages, all of said passages having openings at their outer ends, alternate ones of said passages having openings at their inner ends, and the other passages having openings at the top of the casing leading to the outer atmosphere, means for spraying an evaporative liquid into said other passages through the openings at the top of the casing, an outlet at the bottom of the casing for draining off surplus liquid, and means at the outer end of the casing for introducing air from the atmosphere into all of the passages.

2,157,532

ANTENNA SYSTEM FOR VEHICLES

Dudley E. Foster, Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 19, 1936, Serial No. 80,489
3 Claims. (Cl. 250—33)



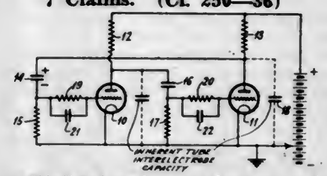
1. In a radio receiving system adapted for use in a vehicle containing a source of spark interference, the combination of a loop antenna located in the vicinity of a metallic portion of said vehicle and remote from the field of said source and a band pass filter including shunt inductance elements connected between said loop and the remaining portion of said receiving system, said loop providing the input shunt inductance of said filter as well as acting as a pickup device for signals.

2,157,533

OSCILLATOR

Max Geiger, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application June 8, 1937, Serial No. 146,986
In Germany June 16, 1936
7 Claims. (Cl. 250—36)



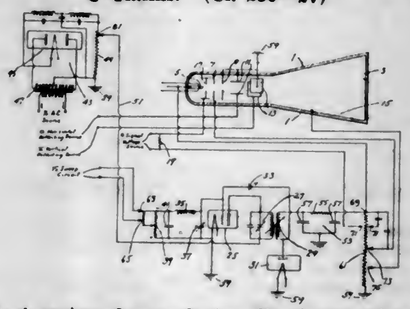
1. A multivibrator for producing rectangular wave form comprising a pair of vacuum tubes each having a cathode, an anode and a control grid, a condenser and a resistance connected in series between the anode and the cathode of each tube, a second resistance, said second resistance being connected between the control grid of one tube and the junction of the series condenser and resistance of the other tube, means connected to each anode and cathode for maintaining said anodes positive with respect to said cathodes, and a resistance in each anode connection.

2,157,534

POWER SUPPLY SYSTEM

Roscoe H. George, Howard J. Heim, and John W. Hammond, West Lafayette, Ind., assignors to Radio Corporation of America, a corporation of Delaware

Application September 30, 1935, Serial No. 42,819
8 Claims. (Cl. 250—27)



4. A system for producing direct current voltages comprising an electron tube having a cathode, a control electrode and an auxiliary electrode, means including said electrodes for producing sustained oscillations, means including said control electrode for deriving a unidirectional undulating voltage, means for producing an alternating current from said first named means, means for rectifying the alternating current so produced, and means for filtering the unidirectional voltage and the rectified voltage.

2,157,535

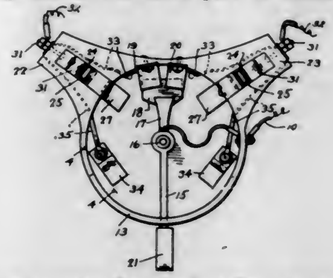
ELECTRICAL SWITCH

Malcolm Lee Goodwin, Culver City, Calif., assignor of fifty-two per cent to Phil Sheoridon Emery, Culver City, Calif.

Application April 1, 1937, Serial No. 134,380
2 Claims. (Cl. 200—3)

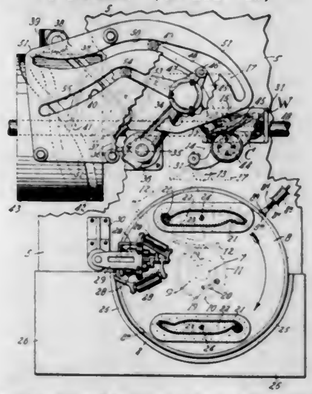
1. A switch of the class described comprising, a casing, a pair of terminal posts carried by the casing, a switch arm pivotally mounted in the

casing intermediate the ends of the arm with one end part of the arm projecting from the casing, a first pair of contacts in the casing and one connected with one post and the other with the opposite post, a second pair of contacts in the casing and one located adjacent but spaced from one of the first mentioned contacts and the other located adjacent but spaced from the other contact of the first-mentioned pairs, a pair of temperature actuated units located in the spaces between the first and second pairs of contacts, a third pair of contacts in the casing bridged by the inner end of the arm when the arm is in a certain position, means for electrically connecting one of the third pair of contacts with



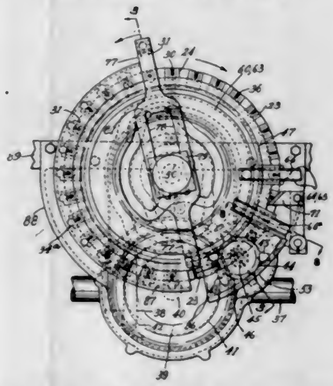
one post, means for electrically connecting the other contact of the third pair with the other post, said arm when in a second position engaging one of the second pair of contacts and when in a third position engaging the other contact of said second pair, a fourth pair of contacts in the casing, each of which is arranged opposite a contact of the second pair, whereby when the arm is engaging a contact of the second pair another part of the arm will be engaging a contact of the fourth pair, means for electrically connecting one contact of the fourth pair to one post, means for electrically connecting the other contact of the fourth pair to the other post, and means for electrically connecting the arm to a source of current.

2,157,536
WRAPPER CUTTING AND DELIVERING MECHANISM
John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application April 23, 1935, Serial No. 17,805
6 Claims. (Cl. 131—49)



1. In a cigar making machine, the combination with means for rolling a wrapper about a cigar bunch, of a leaf supporting suction bed having a wrapper cutting die for receiving a cigar wrapper leaf from an operator with the seam forming side of the wrapper leaf toward the rolling means, means for swinging the suction bed to a position in which the seam forming side of the wrapper is away from the rolling means, a wrapper transfer having an elongated suction plate for taking the wrapper from the die in the latter position and feeding the wrapper therefrom onto the bunch during said rolling operation, and means for guiding the movement of said transfer after the wrapping operation operating to substantially turn said plate end for end between the completion of the rolling operation and the return of the plate to position to take a wrapper from said bed.

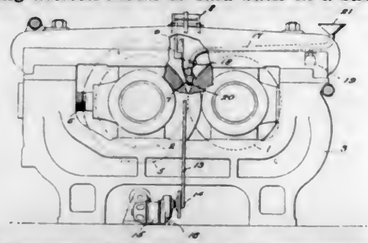
2,157,537
CIGAR BUNCH SHAPING MACHINE
Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application May 16, 1935, Serial No. 21,723
44 Claims. (Cl. 131—9)



2. A cigar bunch shaping machine comprising in combination, an endless travelling conveyor, a series of shaping pockets mounted on said conveyor for movement in an endless path, shaping covers adapted to cooperate with said pockets to close the pockets, and means coacting with said covers and said conveyor to keep closed a plurality of the pockets of said series for shaping bunches therein and while exposing a plurality of open pockets of the same series for loading, said pockets being closed at the head end of the bunch to a height above the bottom of the pocket at least equal to half the thickness of the bunch, a trimmer for trimming surplus material projecting from the head end of said pocket, said coacting means operating to fully close the cover on said bunch subsequent to trimming to fully shape in the same pocket the trimmed end of said bunch.

2,157,538
DISTRIBUTING DEVICE
Clarence W. Hazelett, Greenwich, Conn.
Application April 2, 1937, Serial No. 134,487
6 Claims. (Cl. 22—57.5)

6. In a casting mill for producing solid metal of substantially constant cross-section throughout its length directly from a mass of molten metal having a pair of adjacent and operatively associated rolls, end dams at the ends of said rolls and defining a casting space therewith adapted to hold a bath of molten metal, and means for rotating said rolls to cause the ejection of solidified metal from the bight of the rolls; the improvement which comprises feeding means including a displaceable apertured member for feeding molten metal to said bath in a substan-



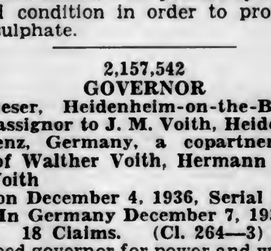
tially horizontal direction and underneath the surface of said bath, and means for reciprocating said member in a direction parallel to the roll axes and imparting to said member low velocities at the ends and high velocities in the middle of said rolls whereby more metal is poured at the ends of said rolls than at the central portions thereof.

2,157,539
HYDRAULIC PRESS
Paul Hollstein, Carlstadt, N. J., assignor to J. M. Lehmann Company, Inc., New York, N. Y., a corporation of New York
Application December 20, 1935, Serial No. 55,342
2 Claims. (Cl. 100—54)

1. In a hydraulic press for liquid cocoa butter or the like, having a pressure head with a substantially flat under surface for the pressing action, a flat layer of filter material arranged substantially parallel with the flat under surface of the pressure head, and transversely movable on said pressure head, and a pot having a bore, the combination therewith of means connected with said filter material for supporting the same, hook-shaped devices connected with said supporting means, and a rim on said pressure head engaged by said hook-shaped devices, to permit an adjusting movement of said layer of filter material in a direction parallel with the under surface of the pressure head, said adjustable layer of filter material being freely movable on the pressure head to enable it to be inserted into the adjacent pot when the pot approaches the pressure head.

2,157,540
CYCLOMETER CLOCK
Nathan George Horwitt, New York, N. Y.
Application May 13, 1936, Serial No. 79,449
Renewed October 3, 1938
16 Claims. (Cl. 58—125)

14. A clock comprising a casing member, a device movably mounted in said casing member having an outer surface adapted to move by the front of the casing member, said device presenting numerals representing hours, said casing member having an opening in its front for exposing a portion of said surface, the motion of said device presenting at said opening its successive hour numerals, and a rotatably mounted member at the front of the casing member having its axis of rotation substantially at right angles to the



direction of motion of said surface at said opening and leaving a substantially unobstructed view of the hour numeral at the opening, one of said members having a ring of minute numerals about said opening, the other of said members having an index for successively indicating the minute numerals as said rotatably mounted member is rotated.

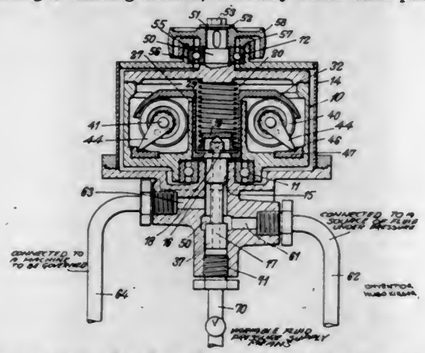
2,157,541
METHOD OF MANUFACTURING A FERTILIZER BY EMPLOYING CALCIUM CYANAMIDE AS THE RAW MATERIAL
Kuro Hosokawa, Suwa-gun, Nagano-ken, Japan, assignor to Takewo Ozawa, Tokyo, Japan
No Drawing. Application March 27, 1937, Serial No. 133,380
1 Claim. (Cl. 71—28)

Method of manufacturing a fertilizer by using calcium cyanamide as the raw material, which consists in suspending calcium cyanamide powder in water to form a solution and passing carbonic acid gas therethrough to precipitate calcium carbonate as a by-product and liberate free cyanamide, separating the calcium carbonate precipitated from the solution, adding an amount of sulphuric acid to the cyanamide solution from which calcium carbonate has thus been precipitated, in such proportion that the molecular ratio of sulphuric acid to cyanamide in amount is 1:4 converting the cyanamide produced to urea by heating and hydrolysing, concentrating the same, and then neutralizing it with said by-product, calcium carbonate to liberate calcium sulphate and thereby causing the nascent calcium sulphate liberated to combine with previously formed urea in heated condition in order to produce urea-calcium-sulphate.

2,157,542
GOVERNOR
Hugo Kieser, Heidenheim-on-the-Brenz, Germany, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Germany, a copartnership composed of Walther Voith, Hermann Voith, and Hans Voith
Application December 4, 1936, Serial No. 114,106
In Germany December 7, 1935
18 Claims. (Cl. 264—3)

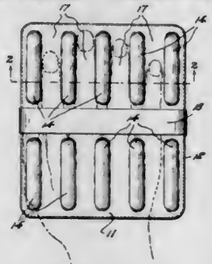
1. A speed governor for power and working machines allowing arbitrary speed adjustment at constant coefficient of speed variation, a rotatable casing, a rotatable support therein, a rotatable flyball member on said support, a rotatable longitudinally moving member having a cam surface directly acted upon by said flyball member, fluid means resisting the movement of said moving cam surface member, means supplying

said fluid under pressure to said casing, and means having differential areas acted upon by the pressure of said fluid in said casing for producing a biasing action, whereby when said parts



are rotated, the flyball member acted upon by centrifugal forces moves the said moving cam surface member longitudinally until equilibrium between the action of the centrifugal forces and the resisting fluid takes place.

2,157,543
WAX CHARGED APPLICATOR PAD
Russell B. Kingman, Orange, N. J.
Application October 2, 1937, Serial No. 167,045
4 Claims. (Cl. 91—54.7)

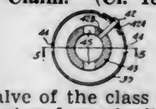


1. A wax charged applicator pad comprising, an applicator body of porous character, a wax material dispersed through the interstices of said body for exudation from the outer face thereof, an external impervious backing member of sheet material secured to said body contiguous to the inner face thereof, said backing member having formed therein a plurality of hollow flexible walled storage elements providing cavities having open sides opposed and contiguous to the inner face of said body, and reserve wax masses contained in the cavities of said storage elements, subject to expression therefrom into and through said applicator body by direct manipulation of the flexible walls of said storage elements.

2,157,544
CELLULOSIC STRUCTURE AND PROCESS FOR PREPARING SAME
Emil Kline, Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 22, 1934, Serial No. 740,891
6 Claims. (Cl. 18—54)

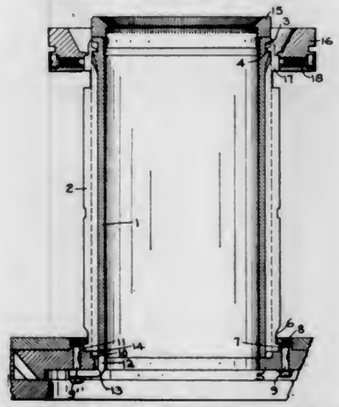
5. A method of manufacturing delustered viscose rayon comprising dissolving in a fugitive hydrocarbon solvent a synthetic resin having an index of refraction substantially different from regenerated cellulose, admixing the resulting solution with viscose to effect dissemination of the resin throughout the viscose, and spinning the viscose into regenerated cellulose filaments containing the resin in finely-divided form lending itself to the production of the desired delustering effect.

2,157,545
GUARD FOR PRIMER VALVES
Harry W. Klosterman, Portland, Oreg.
Application May 17, 1937, Serial No. 143,046
1 Claim. (Cl. 182—12)



A primer valve of the class described having a metering chamber formed within same, a nipple extending downwardly from said metering chamber, a valve for controlling the flow of liquid through said nipple, a wall surrounding said nipple and spaced therefrom, said wall forming a means for connecting the discharge from said nipple to a sanitary system, said wall and nipple having lateral openings therein out of alinement with each other.

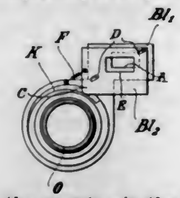
2,157,546
NEEDLE BED
Robert H. Lawson, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application January 14, 1936, Serial No. 59,106
4 Claims. (Cl. 66—115)



1. A needle bed having a support, a cylinder centered within said support and having grooves therein within which strips are inserted to form needle walls, interengaging means between said strips and cylinder and clamping means at the lower ends of strips for securing them to said support, said interengaging means being so constructed that when strips are clamped at their lower ends they will be held within the cylinder and the cylinder will be held in fixed position on said support.

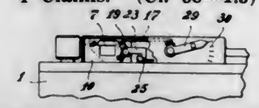
2,157,547
PHOTOGRAPHIC CAMERA
Ludwig Leitz, Wetzlar, Germany, assignor to Ernst Leitz G. m. b. H., Wetzlar, Germany
Application August 3, 1935, Serial No. 34,587
In Germany August 3, 1934
3 Claims. (Cl. 88—1.5)

1. In a photographic camera having an objective and a visual view finder including a lens system and a fixed mask and a movable mask, means for movably supporting the movable mask upon the fixed mask, each of said masks having a rectangular opening of the same size and cooperating means on the objective and the movable mask for automatically displacing the opening in the latter



with respect to the opening in the fixed mask in a downward direction toward the optical axis of the objective when the objective is focused upon close objects whereby to decrease the field of view in the view finder proportionally to a decrease in the angular field of view of the objective when the latter is focused and simultaneously therewith to compensate for parallax.

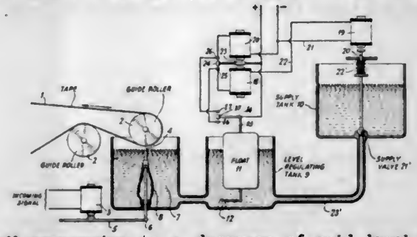
2,157,548
PHOTOGRAPHIC VIEW FINDER
Ludwig Leitz, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany
Application March 17, 1937, Serial No. 131,347
In Germany March 19, 1936
4 Claims. (Cl. 88—1.5)



1. A photographic camera having exchangeable objectives and a built in view finder including two relatively movable mask members and a sliding bar for automatically adjusting the mask members to frame a selected field of view to accord with the exposure field of a selected camera objective, means for additionally adjusting one of said mask members to compensate for parallax and the decrease in the field of view when the camera objective is focused, said additional adjusting means comprising a bell crank pivotally supported on said sliding bar and operatively connected to the camera objective and to the said one mask member for automatically adjusting the same in a downward and inward direction towards the camera objective when the latter is focused.

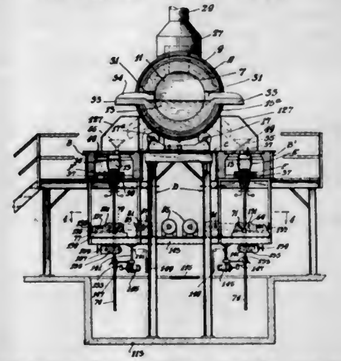
2,157,549
FACSIMILE INK RECORDER
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 26, 1936, Serial No. 87,345
3 Claims. (Cl. 178—96)

1. In a facsimile system, a vertical pen for marking signals on a tape located within striking distance of said pen, a well with marking fluid, said pen having its marking tip normally positioned at the top of the pen slightly above the level of said fluid in said well, a relay for raising and lowering said pen to strike said tape, in accordance with signals applied to said relay, whereby the tip of said pen is constantly moistened by the fluid in said well, said pen displacing the same amount of fluid when in movement as when stationary, whereby the level of said marking fluid remains substantially constant during movement of said pen, and supply means for said



well responsive to a decrease of said level for replenishing said fluid to the desired level.

2,157,550
APPARATUS FOR CASTING METALS
Karl A. Lindner, Rahway, N. J.
Application July 19, 1935, Serial No. 32,212
11 Claims. (Cl. 22—57.2)

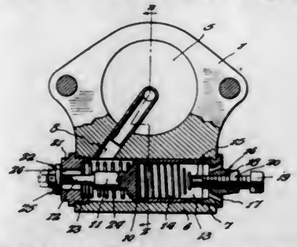


4. Apparatus for casting metals comprising, in combination, a furnace, a plurality of receptacles in the furnace for receiving molten metal from a supply thereof, each of the said receptacles being provided with a die defining a congelation chamber therein wherein molten metal solidifies, means for continuously withdrawing solidified metal from the congelation chamber as solidification of the metal proceeds, and mechanism for rendering any of the said means inoperative while applying a braking force thereto for preventing solidified metal from dropping from the die during the period of inaction of the withdrawing means.

2,157,551
AIR INJECTOR FOR INTERNAL COMBUSTION ENGINES
Albert J. Loebs, Brooklyn, N. Y., assignor to Albert G. Loebs, Jr., Forest Hills, N. Y.
Application June 28, 1933, Serial No. 678,081
6 Claims. (Cl. 137—152.5)

6. A device of the class described including a body portion having an opening, a cylinder having an intake passage at one end, a piston slidable in the cylinder and having a stem and means mounted thereon for closing the intake passage, said cylinder having one end portion communicating with the opening of the body, a spring operating against one end of the piston for normally retaining the closure means in closing relation to the intake passage, said piston being shiftable longitudinally in an opening direction for opening said closure means by the

vacuum created by gas passing through the opening in the body portion, a spring of less strength than the first mentioned spring engaging said piston and opposing movement of the piston by the first spring, and means for regulating tension of the last mentioned spring.

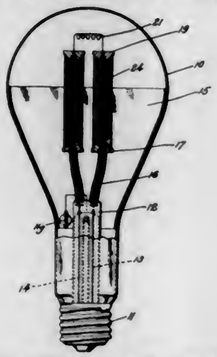


2,157,552

ELECTRON DISCHARGE DEVICE

Michel E. Macksoud, St. Albans, N. Y., assignor to Macksoud Patents, Inc., New York, N. Y., a corporation of New York

Application April 28, 1937, Serial No. 139,418
13 Claims. (Cl. 176—122)



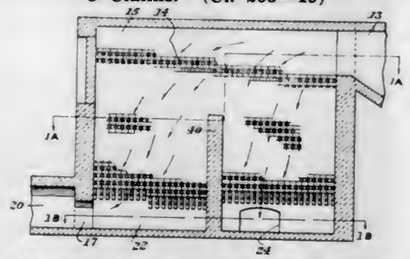
1. In an automatically regulating electron tube containing gas, an electrode unit comprising a heater, a cylindrical cathode surrounding the same, a grid spaced outside the walls of the cathode, and a cylindrical free electrode enclosing said cathode and grid.

2,157,553

REGENERATING STRUCTURE AND METHOD

Edward J. McDonnell, Fox Chapel, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey

Application September 16, 1937, Serial No. 164,134
5 Claims. (Cl. 263—19)



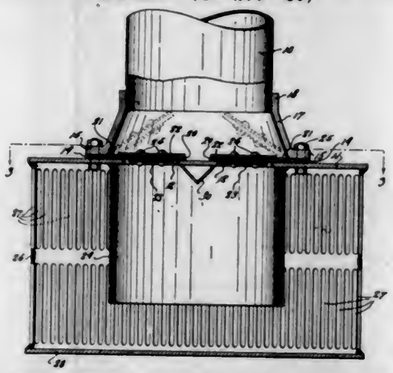
1. A regenerator for furnaces comprising a regenerator chamber containing checkerwork and having an open space over the top of the checkerwork in the chamber, a passage from the furnace opening into said space above the checkerwork, a plurality of passages connected at spaced points with the bottom portion of the regenerator for leading waste gases from the regenerator and for delivering cold gases thereto, and regulating valves for the waste gases and for the cold gases which so proportion the flow of waste and cold gases through said last mentioned passages that the distribution of the flow of the waste gases through the checkerwork approximates that of the cold gases.

2,157,554

FOOT VALVE FOR PUMP SUCTION LINES

William K. McFarlin, East Orange, N. J.

Application January 3, 1938, Serial No. 182,959
5 Claims. (Cl. 277—60)



3. In a foot valve structure for pump suction lines, a valve port plate having a pair of spaced rectangular ports, a housing member above said plate having side walls respectively adjacently parallel to the respective outer sides of said ports and interconnecting walls angular to said walls and respectively outwardly spaced from the respective ends of said ports thereby providing flow clearance passages contiguous to said port ends, the area of said housing member interior intermediate said ports providing an axial flow passage with which said flow clearance passages join, said housing member walls merging into an upwardly projecting neck-portion having means to connect the same with the end of a pump suction line, and a unitary valve flap and gasket means having its gasket portion interposed and secured between the housing member and valve port plate and providing rectangular valve flaps exceeding the areas of and adapted to respectively overlie said ports, the integral connections between said valve flaps and gasket portion providing said valve flaps with long hinging portions coextensive with the widths of said valve flaps and respectively contiguous to the respective housing member side walls which are adjacently parallel to the outer sides of said ports, said unitary valve flap and gasket means being made of elastic sheet material.

2,157,555

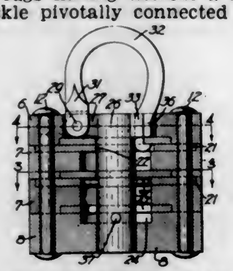
PERMUTATION PADLOCK

Harry L. McInturff, Berkeley, Calif.

Application September 27, 1937, Serial No. 165,790
2 Claims. (Cl. 70—22)

1. A padlock comprising a body having a bore

therein, said body at one end of the bore having recesses therein extending radially from the bore, a bolt slidable axially in said bore having at one end thereof a head comprising radially extending lugs complemental to the recesses of said body, one of said lugs having therein a recess, a U-shaped shackle pivotally connected at one end



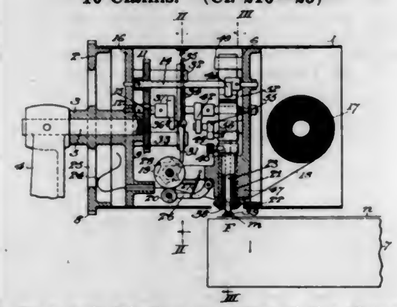
thereof with one of said bolt lugs and having the other end thereof positioned to enter said lug recess, said bolt lugs, upon movement of said bolt axially in said bore, being movable entirely into and out of said body recesses, and means in said body for locking said bolt against movement axially in said bore.

2,157,556

MACHINE FOR LABELING WEBS

Johannes Menschner, Rosswein, Germany

Application November 10, 1937, Serial No. 173,776
In Germany October 16, 1936
10 Claims. (Cl. 216—25)



1. In a web labeling machine of the character described, means adapted to sever a label from a supply of severable labels, means adapted to moisten the label so severed, and means adapted to press the label so severed and moistened against the running web.

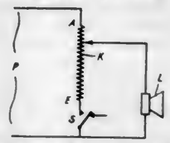
2,157,557

VOLUME CONTROL

Kurt Müller, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application November 17, 1936, Serial No. 111,239
In Germany November 14, 1935
5 Claims. (Cl. 179—1)

1. In signalling circuits, a source of signal energy including a pair of output terminals, a reproducer having a pair of input terminals, a resistance element having one end thereof connected to one of said output terminals, a variable tap on said resistor element, means for connecting one of the input terminals of said reproducer to said variable tap, means for connecting said other output terminal to the other reproducer input terminal, a switch adapted to connect said resistor element across said two output terminals and coupling between said variable tap and switch for operating said switch when said tap



is operated along a predetermined portion of the resistance element.

2,157,558

PREPARATION OF HYPOCHLORITES

Irving E. Muskat, Akron, and George H. Cady, Wadsworth, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application April 14, 1937, Serial No. 136,803
8 Claims. (Cl. 23—86)

7. The process of preparing hypochlorites of the metals of the group consisting of alkali and alkaline earth metals which comprises contacting a mixture of chlorine and chlorine monoxide with a solid hydroxide of said metals capable of reacting therewith in the presence of carbon tetrachloride.

2,157,559

METHOD OF PREPARING HYPOCHLORITES

Irving E. Muskat, Akron, and George H. Cady, Wadsworth, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application April 14, 1937, Serial No. 136,804
11 Claims. (Cl. 23—86)

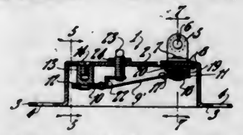
8. A process of preparing the hypochlorite of a metal of the group consisting of the alkali and alkaline earth metals comprising contacting the hydroxide of the desired metal with chlorine monoxide containing substantial amounts of chlorine and at a temperature above approximately 25° C.

2,157,560

THERMALLY-ACTUATED CIRCUIT BREAKER

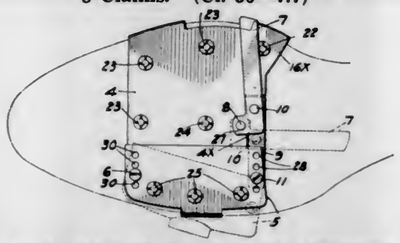
Frank Joseph Neece, Chicopee Falls, Mass.

Application August 9, 1937, Serial No. 158,011
13 Claims. (Cl. 200—138)



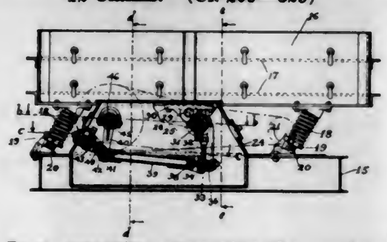
1. A thermally-actuated circuit breaker comprising a casing, a pair of spaced electrical contacts secured in the casing and insulated therefrom, a substantially triangular snap-acting member secured in said casing at a point midway of its base portion, a contact button secured at the apex of said member and insulated therefrom, said contact button normally bridging and connecting said spaced contacts to close an electric circuit, a bi-metallic thermally operable strip superposed over the base portion of said triangular member, whereby distortion of said bi-metallic member will cause said triangular member to snap away from said spaced contacts, and means for adjustably exerting pressure against the triangular member in the direction of distortion, whereby the required operating range of the bi-metallic strip, relative to its effect on the triangular member, may be adjustably varied.

2,157,561
DETACHABLE ANTISLIPPING MEANS
Harry C. Oakland, Chula Vista, Calif.
Application June 4, 1938, Serial No. 211,822
8 Claims. (Cl. 36—7.7)



1. In a device of the character described for attachment to the outsole of a shoe, said attachment comprising an anchor plate and a wing plate, means to pivotally connect said plates together adjacent to their forward edges, an L-shaped lever means to pivotally connect one leg of said L-shaped lever to the rear edge portion of said anchor plate, a link pivotally connecting the opposite limb of said lever with said wing plate, a pair of lipsole engaging hooks projecting laterally from one edge of said anchor plate, a lipsole engaging hook depending from said wing plate in a central staggered relation to the lipsole engaging hooks of said pair, and means to retain said lever in its inswung position wherein it maintains said hooks in a lipsole gripping position.

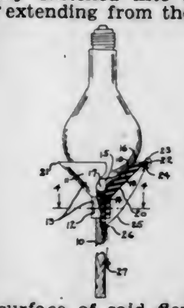
2,157,562
SCREEN APPARATUS
Gustave A. Overstrom, Big Sur, Calif.
Application December 20, 1935, Serial No. 55,352
12 Claims. (Cl. 209—329)



3. In a screening apparatus the combination including a supporting base, a screen box, a screen secured in said box, said base and box being disposed in parallel relation to each other, spring supports for said box interposed between the base and the box, said spring supports being flexible along a line inclined upwardly and in the direction of travel of material over the screen, and a positive differential drive mechanism connected to said screen box to impart a slow upward motion to said screen box in a quarter part of the working cycle of the drive mechanism, a fast upward movement to the box in the next quarter working cycle thereof, a fast recession of the screen box during the next quarter working cycle thereof, and a slow downward movement to the screen box during the last quarter working cycle thereof.

2,157,563
LAMP CHANGER
Ford C. Pethick, Scranton, Pa.
Application January 2, 1937, Serial No. 118,792
6 Claims. (Cl. 294—20)

2. A lamp changer comprising a flexible head having in its upper end a centrally located right circular frustro-conical gripping recess with a smooth inner surface which inner surface acts as the gripping element, said flexible head having in its lower end a centrally located right cylindrical recess, a cylindrical pole the upper end of which is firmly fastened into said cylindrical recess, a cord extending from the upper edge of



the external surface of said flexible head to a point near the bottom of said pole, and a means for attaching said cord to the uppermost outer edge of said flexible head, whereby through the use thereof any sized lamp bulb can be removed from or manipulated into a socket located in an elevated position without the use of a ladder or the like.

2,157,564
EXPANSION BEND
Wilhelm Peuthert, Berlin-Britz, Germany, assignor to Franz Seiffert & Co., Aktiengesellschaft, Berlin-Eberswalde, Germany
Application August 12, 1936, Serial No. 95,512
In Germany August 16, 1935
7 Claims. (Cl. 138—50)

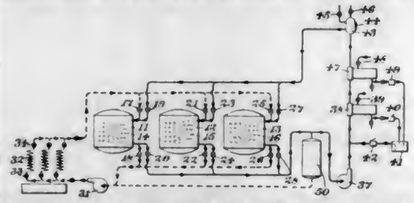


1. An expansion bend for pipe lines, said bend consisting of a curved pipe having a continuous wall, formed by a single piece of sheet metal, forming as well the inner as the outer part of the bend, said parts being of smooth circular cross section each except in the region of the neutral zone of the bend where the latter has longitudinal folds the opposite walls of which are separated by a free space.

2,157,565
TREATMENT OF GASES WITH ADSORBENT SOLIDS
Stuart Pexton, William Kenneth Hutchison, and Falconer Moffat Birks, London, England, assignors to The Gas Light & Coke Company, Westminster, London, England, a British company
Application February 17, 1937, Serial No. 126,290
In Great Britain February 20, 1936
5 Claims. (Cl. 183—4)

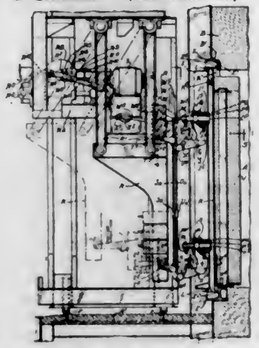
1. Apparatus for alternately cooling and heating vapor- or gas-adsorbing solid by heat transfer from water substantially free from dissolved air or oxygen circulated through pipes embedded in the said solid which comprises at least one chamber containing adsorbent solid, a heat-exchange coil within said adsorption chamber and embedded in said solid, closed heating and cooling circuits external to the adsorption chamber and each including the heat-exchange coil in said adsorption chamber, valved means for connecting

the heat-exchange coil at will with the said external heating or cooling circuit, means for circulating hot and cold water at will through the heat-exchange coil and a single closed storage



vessel for hot and cold water the top portion of which is connected to the heating circuit and the bottom portion of which is connected to the cooling circuit.

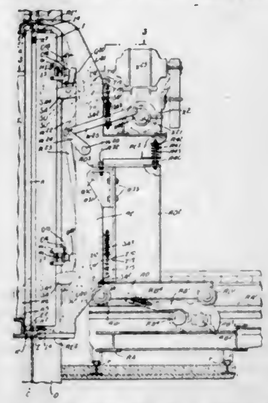
2,157,566
COKE OVEN DOOR MACHINERY
Joel Sanford Potter, Valley Cottage, N. Y., assignor to Louis Wilputte, New Rochelle, N. Y.
Application June 25, 1935, Serial No. 28,264
4 Claims. (Cl. 212—4)



1. A coke oven door machine comprising a support, a door lifting part adapted to engage an upper portion of a door at the outer side of the center of gravity of the door and lift the latter, a door engaging part adapted to engage the lower portion of a door being lifted by the first mentioned part, each of said parts being mounted on and supported by said support for horizontal movement relative thereto in a direction to diminish the distance between the portion of the door engaged by it and said support, resilient means opposing such movement of the first mentioned part, means for subjecting the latter to a door lifting force acting on said part in a direction to move the latter horizontally against the action of said resilient means, and resilient means acting between tho second mentioned part and the support and opposing the said horizontal movement of the second mentioned part with a force great enough to prevent such horizontal movement from being effected by the tendency toward angular movement of the door created when the door is lifted by the first mentioned part.

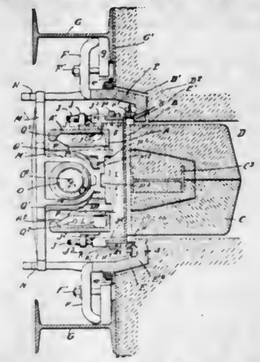
2,157,567
COKE OVEN DOOR AND DOOR MACHINERY
Joel Sanford Potter, West Nyack, N. Y., assignor to Louis Wilputte, New Rochelle, N. Y.
Application June 11, 1936, Serial No. 84,596
Renewed May 27, 1938
27 Claims. (Cl. 202—248)

1. The combination with a coke oven door having an outer portion adapted to be engaged by a door lifting and extracting hook, of a horizontal plunger transverse to the door and extending away from the outer side of the latter, and mounted on the door for axial movement, resilient means tending to move said plunger away



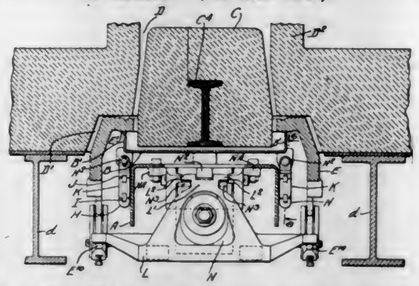
from the door, a locking bar mounted on, and adapted to share in the axial movement of the plunger, and a door machine including a door lifting and extracting hook and a lever adapted to engage said door portion and plunger, respectively, and subject them to opposing forces moving the plunger toward the door.

2,157,568
COKE OVEN DOOR
Joel Sanford Potter, West Nyack, N. Y., assignor to Louis Wilputte, New Rochelle, N. Y.
Application September 28, 1936, Serial No. 102,943
11 Claims. (Cl. 202—248)



6. A self sealing coke oven door comprising a rigid outer section, an inner plug section and an interposed flat flexible sealing plate adapted to extend across a door opening closed by said door and to abut against sealing means surrounding said opening and supported independently of said door and restrained against bending movement over the major portion of its extent only by its own stiffness, and means acting between the marginal portion of said plate and said rigid door section and adjustable to hold said marginal portion in engagement with said sealing surface in the closed position of the door, notwithstanding relative distortion of said door section and sealing surface.

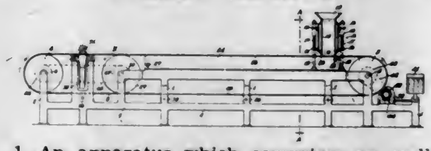
2,157,569
SELF-SEALING COKE OVEN DOOR
Joel Sanford Potter, West Nyack, N. Y., assignor to Louis Wilputte, New Rochelle, N. Y.
Application June 12, 1937, Serial No. 147,878
8 Claims. (Cl. 202—248)



1. A self sealing door comprising in combination a flexible sealing plate member adapted to extend transversely into overlapping relation with a sealing surface at the margin of the doorway closed by the door, a plug section at the inner side of said sealing member and adapted to extend into said doorway, a rigid outer section at the outer side of said sealing member, means connecting said plug section and member to said outer section and through which the latter is adapted to support the plug section and member in door removing and replacing operations, door locking means adapted to releasably hold said outer section against movement away from surface and adjustable connections between said outer section and flexible member through which the outer section is adapted to press the flexible member against said sealing surface, said connections being distributed along the marginal portion of the sealing member and each connection comprising two relatively movable parts respectively engaging said outer section and said sealing member and a wedge acting between said parts and adjustable to vary their relative positions.

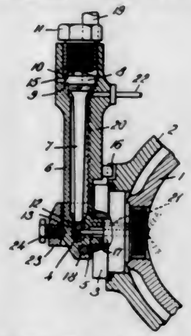
7. In a plug type self-sealing door, the combination with plug and sealing member door sections, of a rigid outer door section comprising a beam-like body portion of rolled steel of channel bar cross section, with its two flanges respectively adjacent, and parallel to the opposite side edges of the door, and cast steel end portions welded to the ends of said body portion, and adapted to engage a door frame in which the plug section of the door extends.

2,157,570
APPARATUS FOR MAKING TABLETS
James Albert Raynolds, Jr., Elmhurst, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine
Application January 19, 1937, Serial No. 121,282
2 Claims. (Cl. 107—8)



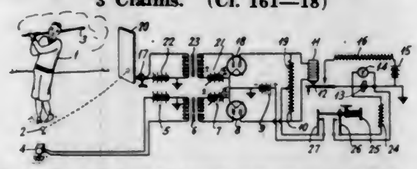
1. An apparatus which comprises an endless belt having molding perforations formed therein, and adapted to receive the composition to be molded, a second endless belt formed of a material having a high coefficient of heat transfer cooperating with the first-named belt and constituting a support to maintain the composition in the perforations, means to chill the second belt, means to separate the two belts, and means to remove the molded products from the perforations in the first belt.

2,157,571
FUEL VALVE FOR INTERNAL COMBUSTION ENGINES
Curt Retschy, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application July 9, 1938, Serial No. 218,320
In Switzerland July 13, 1937
3 Claims. (Cl. 267—1)



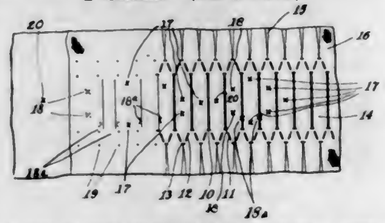
1. In a fuel valve for internal combustion engines of the type having a bar spring one end of which is secured or fixed in a housing and the other end in engagement with a tappet of the valve the axis of which extends crosswise to the axis of the bar spring, the improvement which comprises a shoulder on the fixed end of the bar spring forming a contact surface which is crosswise to the longitudinal axis of the bar spring, said housing having a seat the bearing surface of which is substantially parallel to the axis of the valve tappet, and means for forcing the contact surface of the shoulder into pressed engagement with the seat.

2,157,572
VELOCITY MEASURING DEVICE
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application February 25, 1933, Serial No. 658,654, now Patent No. 2,102,166, dated December 14, 1937. Divided and this application June 8, 1937, Serial No. 147,062
3 Claims. (Cl. 161—18)



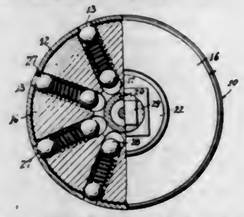
1. A short interval timer comprising a first and second control energy pickup means, a capacitor, a charging circuit for the capacitor including a source of current, a pair of electronic tubes having separate input circuits and a common output circuit, said common output circuit including a relay for connecting the charging circuit to the capacitor, means including a connection between said first pickup means and one of said input circuits for operating said relay means to connect the charging circuit to said capacitor to initiate the charging of said capacitor by said source upon the interception of control energy by the first pickup means, means including a connection between the second pickup means and the other of the input circuits for operating said relay means to terminate the charging of the capacitor upon the interception of control energy by the second pickup means, means for indicating the total charge received by the capacitor and means for discharging the capacitor.

2,157,573
MEANS FOR COMBINING SMOCKING AND NEEDLEWORK DESIGN
Helena S. Sadtler, Erdenheim, Pa.
Application December 22, 1936, Serial No. 117,107
1 Claim. (Cl. 2—278)



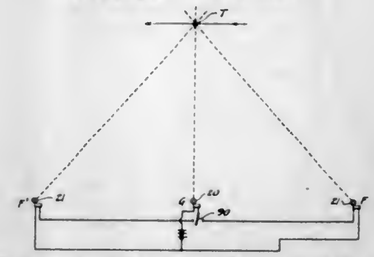
A sheet of material having thereon means to indicate the positions at which stitches are to be taken to produce a box-pleated design, said indicating means being arranged in parallel pairs of rows, the indicating means in each row being spaced apart the same distance as the indicating means in the other rows and equally spaced apart in each row to establish stitching positions to form box-pleats, said sheet of material also including cross stitch indicating means between said parallel pairs of rows, said cross stitch indicating means being positioned on the flat areas of the box-pleats when formed.

2,157,574
TORQUE RELEASE WRENCH
William M. Siesel, Verona, N. J.
Application November 19, 1937, Serial No. 175,361
12 Claims. (Cl. 64—29)



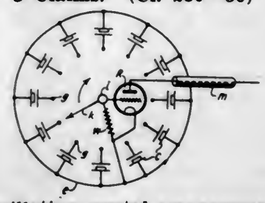
1. A torque overload release device comprising a ring member having a plurality of circumferentially spaced radial holes, a disc member rotatably fitted within said ring having a similar plurality of radial holes, said disc having an axial bore, an arbor upon which said ring and disc are mounted, a conically formed collar slidable axially into said bore, a compression spring in each disc hole, a ball at each end of each said spring, the inner balls bearing on said collar and the outer balls bearing upon the inner surface of said ring and upon the edges of the holes of the ring, said collar, according to its axial position, adjustably positioning the inner balls for initially compressing said springs, and driving attachments rigid with respective members.

2,157,575
FIRE CONTROL FOR MACHINE GUNS
Grayson Schmidt, Fort Kamehameha, Territory of Hawaii, assignor to George B. Finnegan, Jr., Cove Place, Mountain Lakes, N. J.
Application May 15, 1936, Serial No. 79,822
Renewed October 5, 1938
9 Claims. (Cl. 33—66)



9. In a system of gunnery fire control the steps of firing a succession of projectiles from a gun at a moving target, rendering visible at least portions of the trajectories of said projectiles, observing the successive trajectories from a position at the gun, simultaneously observing said trajectories from a flank position, rendering visually distinct to the gun observer a point on each successive trajectory at a predetermined time of flight from the gun, and varying said times of flight to cause said points to correspond with the intersections of said projectiles with the line of sight between the flank observer and the target.

2,157,576
ARRANGEMENT OF OSCILLATION CRYSTALS
Wilhelm Schneider, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 18, 1937, Serial No. 148,970
In Germany May 14, 1936
8 Claims. (Cl. 250—36)

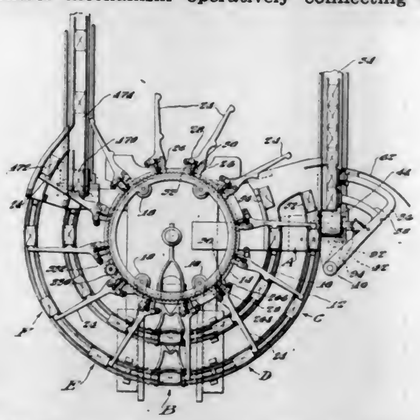


1. An oscillating crystal arrangement comprising a casing having a central opening therein, an electron discharge device located within said central opening, a plurality of piezo-electric crystals within said casing, and means external of said casing for connecting in electrical circuit said electron discharge device and at least one of said crystals.

2,157,577
WEIGHING MACHINE
Arthur C. Schroeder, Syracuse, N. Y., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application November 17, 1934, Serial No. 753,483
4 Claims. (Cl. 249—59)

1. A rotary weighing machine having, in combination, rotary means for moving a plurality of sets of packages in concentric paths of different radii to move a package of each set into

and from weighing position, means for depositing a bulk load in each set of packages while engaged by said moving means, a plurality of scales for performing the weighing operation, control mechanism operatively connecting the



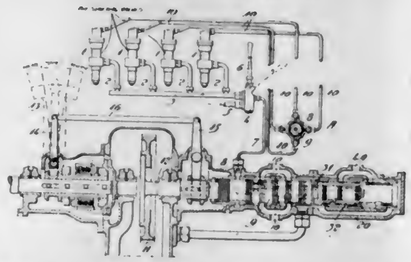
package moving means and scales for preventing the initiation of movement of the packages until after both scales have made their weights, and means for transferring the packages from a single line conveyor into operative engagement with said rotary conveying means.

2,157,578

REVERSIBLE INTERNAL COMBUSTION ENGINE

Edvin Ossian Parcival Thege and John Henry William Julius, Stockholm, Sweden, assignors to Aktiebolaget Atlas Diesel, Sickla, Sweden

Application April 23, 1936, Serial No. 75,912
In Sweden April 27, 1935
7 Claims. (Cl. 60—16)



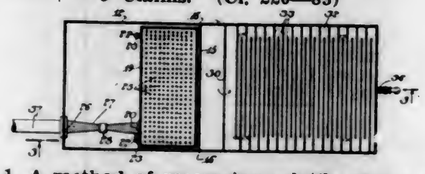
1. A reversible internal combustion engine of the kind in which air is compressed in the engine cylinders including pneumatically actuated relief valves for discharging air compressed in said cylinders, distributing valve means mechanically operated from the engine for automatically supplying compressed air to said relief valves at timed intervals to open the same at the ends of the compression strokes of the respective cylinders, and engine control means including an operating member shiftable to forward and reverse positions, said distributing valve means including mechanism operable to continue to supply compressed air to said relief valves after shifting of said member from one of said positions only so long as the engine continues to rotate in the same direction as that occurring prior to the shifting of said member.

2,157,579

APPARATUS FOR AND METHOD OF RECOVERING GASOLINE AND THE LIKE

George Gordon Urquhart, Cynwyd, Pa.

Original application July 21, 1936, Serial No. 91,648. Divided and this application June 30, 1937, Serial No. 151,114
9 Claims. (Cl. 220—85)



1. A method of recovering volatile vapors ordinarily lost to atmosphere by the breathing action of the tank in which the vapors are formed which consists in utilizing the "breathing out" action of the tank to expel vapor-saturated air, in ebullating said vapor-saturated air through a fluid having an affinity for the vapor content of the air-vapor mixture so as to release the air therefrom and effect the transition of the air-free vapor into liquid state, and in accumulating the liquefied vapor thus obtained during the "breathing-out" period.

2,157,580

PROCESS OF MAKING A REINFORCED BALL

William J. Voit, Los Angeles, and Leith C. Weimer, Southgate, Calif., assignors, by mesne assignments, to W. J. Voit, Los Angeles, Calif.

Application January 7, 1938, Serial No. 183,898
10 Claims. (Cl. 154—19)



1. The method of making an inflatable and deflatable athletic ball, comprising: taking an inflated rubber bladder having an inflating valve permanently secured thereto and winding reinforcing layers of elongated rubberized fibrous material in latitudinal contiguous convolutions upon said bladder; applying material for an outer protective cover to said wound bladder; placing said wound bladder and cover material in a mold having a cavity of a size greater than the volume of said wound bladder and cover material; further inflating said wound bladder to thereby stretch said fibrous material; vulcanizing said wound bladder and cover material together while said fibrous material is in a stretched condition; and deflating and removing the vulcanized, wound and covered bladder from said mold.

2,157,581

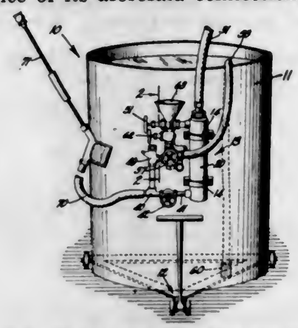
APPARATUS FOR PRODUCING A SPRAY

Freeman Y. Wheeler, Beverly Hills, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif., a corporation of California

Application October 26, 1936, Serial No. 107,549
8 Claims. (Cl. 299—84)

7. In an apparatus for producing a spray the combination of: means for confining and conducting a continuous stream of wet steam to a given point and for releasing said stream of steam from confinement at this point and discharging said stream as a spray at a relatively high velocity; means forming a liquid detergent reservoir; a steam operated water injector; means for

connecting the water inlet of said injector to said detergent reservoir; means for connecting the water outlet of said injector with said first above mentioned means; and means for separating relatively dry steam from said wet steam in said first above mentioned means at a point in advance of its aforesaid connection with the



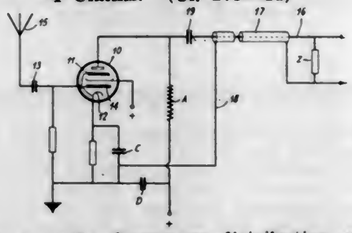
water outlet of said injector, and delivering said dry steam so diverted to the steam inlet of said injector to operate the same to draw liquid detergent from said reservoir and inject the same through the water outlet of said injector into said first above mentioned means.

2,157,582

APERIODIC COUPLING DEVICE

Karl Wilhelm, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application March 20, 1937, Serial No. 132,027
In Germany March 9, 1936
4 Claims. (Cl. 178—44)



2. In a radio frequency distribution system adapted for operation over a wide frequency band and wherein a thermionic relay of relatively high transconductance is provided to act as an aperiodic amplifier, a remote resistive load, means comprising a coaxial cable for connecting said relay device to the load, the inner conductor of the coaxial cable being connected for alternating currents directly to said relay device, said load having an impedance which substantially matches the characteristic impedance of the cable, the characteristic impedance of the cable being of the order of 150 ohms.

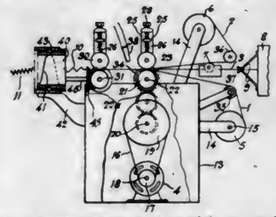
2,157,583

APPARATUS FOR PRODUCING DECORATIVE MATERIAL

Isaac J. Wisoff, Brooklyn, N. Y.

Application May 5, 1936, Serial No. 77,920
13 Claims. (Cl. 41—1)

12. Apparatus of the kind described comprising guiding and feeding means for disposing an elongated member in contact with one face only of a strip of sheet material, means for operating the feeding means to feed the strip and member forward, means for retarding the forward movement of the member so as to gather the strip into transverse bends along its length, means for



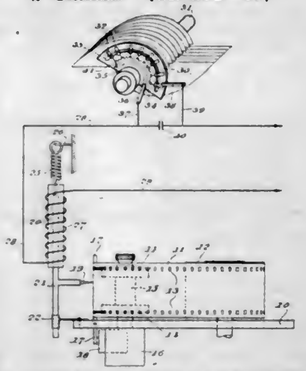
twisting the strip around said member into a spiral, the turns of which have scalloped edges, and means for reversing the twisting means so that the turns of the spiral extend in opposite directions.

2,157,584

RADIO STATION RECORDER

Louis F. Woodruff, Wellesley, Mass.

Application November 7, 1936, Serial No. 109,724
2 Claims. (Cl. 234—69)



2. In a recording device, a recording instrument comprising a longitudinally movable sheet, a marking means movable in a direction transversely of the direction of movement of the sheet, means for moving the marking means, a resistance element, a series of contacts each connected to the resistance element, the value of the resistance being the same between any two connections, means selectively connecting a contact with the means for moving the marking means, said contacts being adjustable to vary the distance therebetween, whereby the marking means will make a record on the sheet at the same transverse positions on the sheet transversely of the direction of movement of the sheet for the same contact irrespective of the adjustment of the contacts and so that the distance between any two successive marks will be substantially constant.

2,157,585

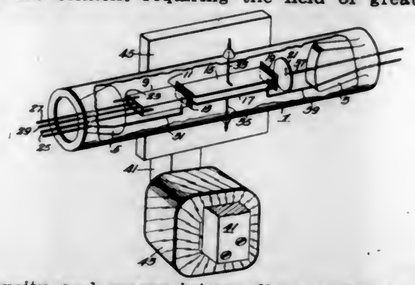
ELECTRIC DISCHARGE DEVICE

Vladimir K. Zworykin, Philadelphia, Pa., and Louis Malter, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application July 25, 1936, Serial No. 92,566
3 Claims. (Cl. 250—175)

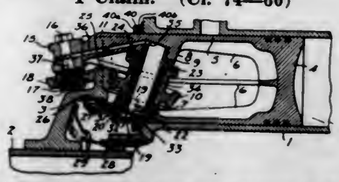
1. The combination with an electric discharge tube having elements the operation of which are

dependent upon the presence of magnetic fields of different intensity, of a magnet adapted to generate a field of an intensity sufficient to actuate the element requiring the field of greater



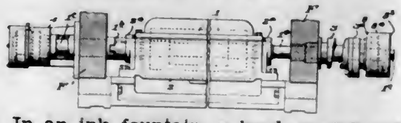
intensity and means intermediate said magnet and the other of said elements for limiting the intensity of said field to a value sufficient to actuate said other of said elements.

2,157,586
WOBBLER ACTUATING PISTON FOR BARREL ENGINES
Heraclio Alfaro, Boston, Mass.
Original application October 16, 1935, Serial No. 45,290. Divided and this application July 30, 1937, Serial No. 156,429
1 Claim. (Cl. 74—60)



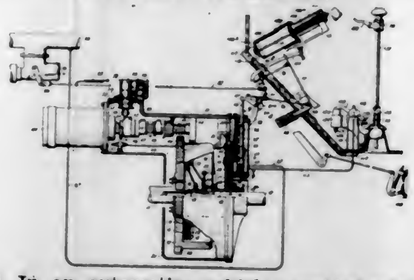
A piston for barrel engines having a skirt provided at the open end thereof with a crosshead extension at one side thereof which has spaced guide engaging bearings, a roller mounted upon the interior of the skirt, a second roller mounted on said extension intermediate said crosshead bearings, an extension on the side of the skirt diametrically opposite the crosshead extension, one of said extensions being detachably connected to the skirt to permit mounting of the roller upon the interior of the skirt.

2,157,587
INK FOUNTAIN
Herbert C. Behrens, Battle Creek, Mich., assignor to The Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan
Application December 6, 1937, Serial No. 178,419
8 Claims. (Cl. 101—364)



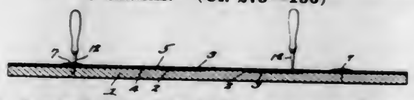
1. In an ink fountain, a bowl, an ink roll, a shaft extending beyond the fountain end, a ratchet fixed on one end of the shaft, a member loosely mounted on the shaft adjacent said ratchet, pawls carried by said member and engaging the ratchet to drive the ink roll, means for driving the member; and a detachable member adapted to be manually engaged with the roll and when so engaged to disengage the pawls and whereby when so engaged the roll can be manually rotated independently of said driving means.

2,157,588
CONTROL SYSTEM FOR MOTOR VEHICLES
Charles A. Brewer, Noroton Heights, Conn., assignor of one-half to Philip J. Kury, Arverne, N. Y.
Application September 17, 1934, Serial No. 744,281
18 Claims. (Cl. 192—.01)



1. In an automotive vehicle provided with a clutch and means for cranking the engine, power means operably connected to the clutch, and means, interconnecting the power means and cranking means, for rendering the power means operable to effect a disengagement of the clutch prior to the operation of the cranking means to crank the engine.

2,157,589
GAME
Jacob T. Bullen and Margaret Bullen, Shreveport, La.; assignors to the said Margaret Bullen
Application May 15, 1937, Serial No. 142,903
7 Claims. (Cl. 273—136)

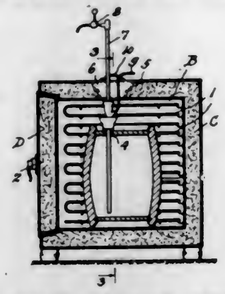


1. A game board including a top area which consists of a material easy to penetrate with a pointed implement and a material which cannot be penetrated by said implement, and a sheet of material covering said top area and resting thereon, said sheet of material concealing the locations of the penetrable material thereunder and being easily penetrated by said implement, there being a geographical area displayed on said sheet.

2,157,590
REFRIGERATING APPARATUS
Don O. Cameron, Garfield Heights, Ohio
Application February 3, 1937, Serial No. 123,919
1 Claim. (Cl. 225—1)

A refrigerating and dispensing unit of the class described, comprising, in combination, a refrigerating chamber having a permanent top wall united to its side walls, a door for access to said chamber, a beverage receptacle emplaced in the chamber, the said receptacle being provided with an opening, a draft tube structure comprising a faucet pipe and pressure supply pipe joined thereto and entering said opening, and the refrigerating chamber having an opening in its top wall through which the draft tube structure passes for cooperation with said beverage receptacle in the refrigerating chamber, a sectional

closure for the opening in the top wall of the refrigerating chamber and relatively small compared to the area of the top wall, and coacting with the draft tube structure to removably hold same in place and to permit of passing the draft tube structure through said opening when the closure is displaced therefrom, the sections of



said closure having matching recesses at adjacent sides snugly receiving and fitting against the faucet pipe and additional matching recesses at said adjacent sides snugly receiving and fitting the pressure supply pipe of the draft tube structure, and handle means for manipulating said closure sections.

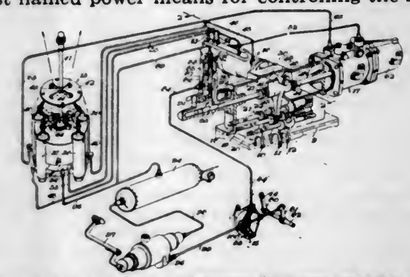
2,157,591
COLLAR
Michael B. Carmody, Shreveport, La.
Application March 31, 1938, Serial No. 199,269
1 Claim. (Cl. 2—137)



A collar comprising inner and outer folds, said inner fold including overlapping end portions having button holes therein for the reception of a collar button, and a tapered tab of bendable material mounted on the lower edge of one of said end portions below the button hole therein and adapted to be bent upwardly and engaged beneath the knot of a necktie, said tab being of a length to extend above the button holes when in operative position, said tapered tab further being of less width, at its free end, than the space between the ends of the outer fold and adapted to support the knot in elevated, outwardly projecting position between said ends of said outer fold.

2,157,592
GEAR SHIFTING MECHANISM
Roger H. Casler, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application November 20, 1935, Serial No. 50,772
22 Claims. (Cl. 74—335)

1. A power-operated control mechanism for a transmission gearing of the type having a combined selector and shifter member movable to select and shiftable to establish a desired gear relation comprising power means for effecting selecting movement of said member, a separate power means for effecting shifting movement of said member a manually-operable member for controlling the flow of energy to said first named power means, valvular means separate from said first named power means for controlling the flow



of energy to said second named power means, and means movable by said first power means for directly operating said valvular means.

2,157,593
DEVICE FOR DRAWING STRIPS THROUGH PERFORATED MATERIALS
John T. Conklin, Binghamton, N. Y., assignor to Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York
Application February 9, 1939, Serial No. 255,511
10 Claims. (Cl. 223—50)



1. A device of the character specified, comprising a fixed hollow needle; a lever pivoted adjacent the needle; a loop member extending through the needle and having one end secured to the lever, the loop of the member normally extending beyond the end of the needle opposite from the lever; and means for swinging the lever to retract the member and close the loop by the adjacent end of the needle.

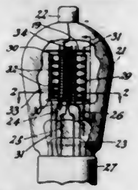
2,157,594
METHOD OF CHROMIZING
Hugh S. Cooper, Cleveland Heights, Ohio, assignor to Cooper Products, Inc., Cleveland, Ohio, a corporation of Ohio
No Drawing. Application January 14, 1937, Serial No. 120,538
3 Claims. (Cl. 91—70.1)

1. The process of chromizing ferrous metals which comprises embedding the article to be chromized in a powdered charge containing ferrous chloride and a source of chromium metal and subsequently heating the same at a temperature of approximately 1150 degrees C. to 1350 degrees C.

2,157,595
THERMIONIC VACUUM TUBE
John F. Cudney, Buffalo, N. Y.
Application February 25, 1937, Serial No. 127,732
5 Claims. (Cl. 250—27.5)

1. A tubular anode for an electron discharge device, said anode being formed of sheet material and being slotted to provide a plurality of substantially parallel bridge formations, the marginal edges of said bridge formations being formed to provide inwardly directed flanges which extend substantially the length of said slots, portions of the wall of said anode connecting said

bridge formations, said wall portions being indented to reduce the spacing between the flanges



of adjacent bridge formations so as to prevent passage therethrough of electrons.

2,157,596
METHOD OF MAKING POROUS METAL ELEMENTS

James H. Davis, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

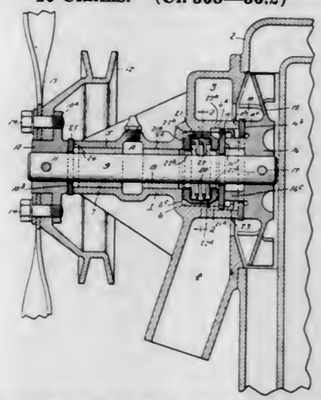
No Drawing. Application June 18, 1936, Serial No. 85,889
6 Claims. (Cl. 75—22)

1. The steps in the method of making a relatively thin sheet of highly porous metal having intercommunicating pores extending entirely through the sheet, comprising: distributing intimately mixed finely divided uncompacted readily alloyable metal powders including at least two constituent metals of different melting points upon a hard smooth mold surface having little or no bonding affinity for said metal powder when sintered thereupon, heating the uncompacted loose layer of metal powders in a reducing atmosphere at a temperature above the melting point of the lowest melting constituent metal and for a short time period as will cause the loose metal particles to alloy together without such melting as to close the voids between the metal particles and thereby form a thin relatively strong highly porous metal sheet, then removing the highly porous metal sheet from the mold surface.

2,157,597
MEANS FOR SEALING SHAFTS

Samuel F. Dupree, Jr., Shaker Heights, Ohio

Application August 27, 1936, Serial No. 98,220
10 Claims. (Cl. 308—36.2)

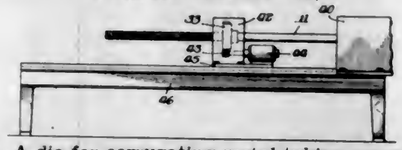


1. The combination, with a body having a bore therethrough, of a shaft mounted in said bore, the said body having a chamber at its inboard end, a rotatable element on the inboard end of said shaft, the rotatable element having an outer annular shoulder, a thrust ring interposed between an annular surface provided on the outboard end of said shoulder and an annular surface on an adjacent portion of the wall of said chamber, the said rotatable element also having an inner annular shoulder projecting into the said chamber, sealing elements within the said chamber and comprising a sealing ring adapted to engage the annular surface of the second shoulder with its inboard face, a second sealing ring having a portion thereof in engagement with the outboard face of the first mentioned sealing ring, a spring operating to press the said portion of the second sealing ring against the first mentioned sealing ring, the said sealing rings surrounding and spaced from the shaft, means within the said chamber for holding the first mentioned sealing ring against rotation, and a thrust ring interposed between an outboard portion of the pump body and a member secured to and rotatable with the outboard portion of said shaft.

2,157,598
APPARATUS AND METHOD FOR CORRUGATING METAL TUBING

James Fentress, Hubbard Woods, Ill., and Albert Dreyer, Lucern, Switzerland, assignors to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois

Application October 30, 1935, Serial No. 47,366
14 Claims. (Cl. 153—71)

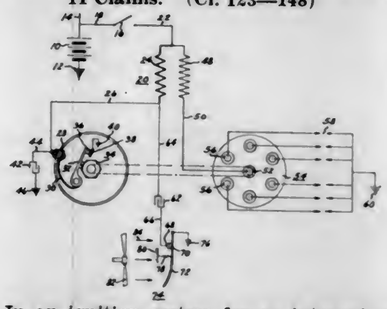


1. A die for corrugating metal tubing comprising a helical metal rib, the trailing portion of said rib with respect to its operation upon the work being of constant pitch and the leading portion thereof being of variable pitch.

2,157,599
CAPACITY CONTROL FOR IGNITION SYSTEMS

John T. Fitzsimmons, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 24, 1937, Serial No. 181,585
11 Claims. (Cl. 123—148)



1. In an ignition system for an internal combustion engine having a cooling fan, and in which the ignition system includes an ignition coil and circuit breaker in circuit with a current source for effecting fuel firing, the combination comprising, a condenser shunting the circuit breaker,

an auxiliary condenser in parallel with the first mentioned condenser, and means responsive to an air blast from the cooling fan for effecting operation of said second condenser.

2,157,600
PROCESS FOR FINISHING LIGHTWEIGHT FABRICS

Florence M. Ford, Wilmington, Del., assignor to Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware

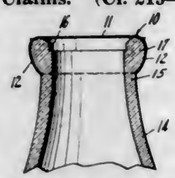
No Drawing. Application November 29, 1935, Serial No. 52,073
3 Claims. (Cl. 8—118)

1. The process of finishing cotton fabric which comprises subjecting the fabric to a cellulose dissolving solution of copper sulphate ammonia and caustic soda in molecular proportions of the copper sulphate and caustic soda, i. e., one mol of copper sulphate to two of caustic soda, the temperature of the solution being about 5° C. to 15° C. or below, removing excess solution to remove dissolved cellulose, setting regenerated cellulose with an acid solution, washing with water, and, while wet, mercerizing the fabric by subjecting it to a caustic soda solution of strength greater than 10 normal, washing to reduce the strength to about 2 normal, neutralizing with acid, washing with water and drying.

2,157,601
MILK BOTTLE CAP

John R. Gammeter, Akron, Ohio, assignor of one-half to Susan G. Gammeter, Akron, Ohio

Application April 2, 1935, Serial No. 14,248
10 Claims. (Cl. 215—41)

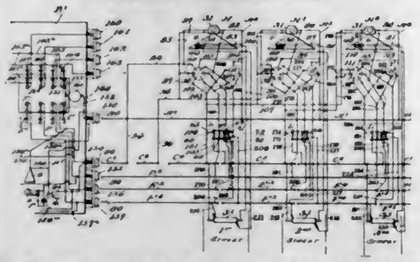


1. A milk bottle cap comprising a pair of substantially flat discs connected at their marginal edges and extending in substantial parallelism, one of said discs having a transverse opening therethrough.

2,157,602
SAFETY CROSSING

Harry R. Gilmore, Steubenville, Ohio

Application August 12, 1937, Serial No. 158,810
9 Claims. (Cl. 246—125)

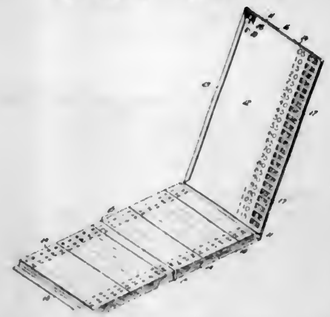


1. In combination, a stretch of railroad track, a train movable thereover provided with a source of electrical energy, a series of highways intersecting and crossing said track at a plurality of separated points therealong, a normally open gate at each of said crossings, electrically operated means to close said gates, electric warning lights and an electrically operated sound broadcaster at each of said crossings, a sound transmitter on said train, electrical conductors extending from each of said warning lights, sound broadcasters and gate operating means to points well in advance of both sides of all of said gates, means carried by said train for electrically connecting said source of electrical energy to said conductors and electrically connecting said sound transmitter to said conductors, said conductors arranged whereby the warning lights and sound broadcasters at all of said crossings are progressively energized as the train reaches points a predetermined distance in advance of said crossings, said conductors further arranged whereby the gate operating means at said crossings are progressively energized to close said gates as the train reaches points a predetermined distance in advance of said crossings, and means to keep the same closed from the time the train reaches a point a predetermined distance in advance of each crossing until the last car of said train has passed over said crossing.

2,157,603
SCRIP COVER

Duncan Earl Graham, Denver, Colo.

Application August 9, 1937, Serial No. 158,102
3 Claims. (Cl. 281—2)



1. A scrip strip cover comprising a cover element adapted to mount and support a scrip strip in folded packet form, a second cover element hinged at one end to and in longitudinal alignment with said first cover element and foldable into superposed registration therewith, a flap hinged to and projecting laterally from a side margin of said second cover element and foldable into superposed registration therewith to provide a slide bearing for an extended portion of a scrip strip, a plurality of windows uniformly spaced in longitudinal alignment along said flap in position to register with and expose value indications of a scrip strip portion received thereunder, and a series of value indications on the exposed surface of said flap associated in uniformly and progressively increasing relation with said windows.

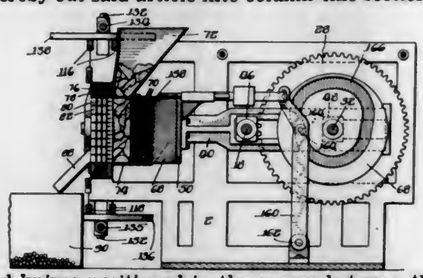
2,157,604
FRUIT AND VEGETABLE DICING APPARATUS

Herbert E. Gray, San Jose, Calif.

Application December 26, 1935, Serial No. 56,210
23 Claims. (Cl. 146—78)

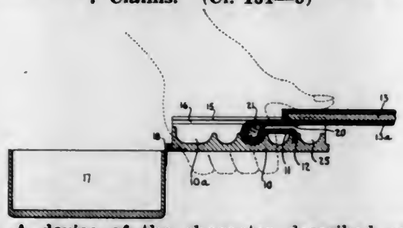
1. A dicer comprising a plurality of rows of fixed cutting blades arranged in spaced parallel relation having the spaces within the fixed cut-

ting blades entirely unobstructed, means to support an article to be cut on one side of said blades, a plunger to force the article to be cut into the unobstructed spaces within the cutting blades to thereby cut said article into column-like sections,



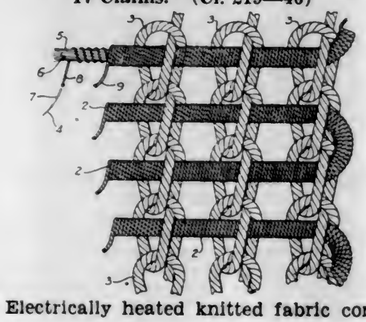
and knives positioned in the spaces between the fixed cutting blades and movable transversely thereacross to cut the column-like sections of the article into cubes without obstructing the subsequent movement of the articles through the fixed cutting blades.

2,157,605
POCKET CIGARETTE MACHINE
Ernest Hansen, Greenwich, Conn.
Application July 6, 1937, Serial No. 152,219
7 Claims. (Cl. 131—5)



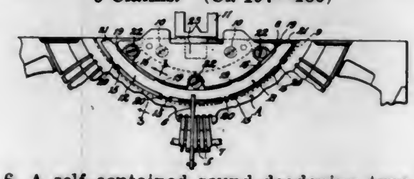
1. A device of the character described comprising a base having an undulated upper surface, a block removably positionable upon said base, an apron of relatively flexible material, one edge of said apron being substantially fixedly attached to said base, the opposite edge of said apron being substantially fixedly attached to said block, and members abutting against said base, said members being channeled near the tops thereof, and means attached to said base for covering the device when not in use.

2,157,606
ELECTRICALLY HEATED FABRIC
Alexander Charles Harris, Letchworth, England
Application July 6, 1937, Serial No. 152,191
In Great Britain July 8, 1936
17 Claims. (Cl. 219—46)



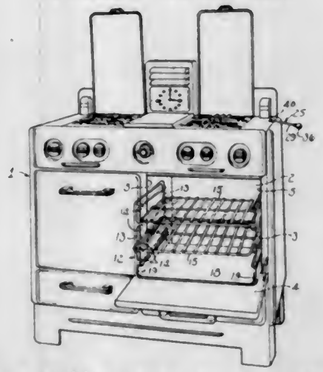
7. Electrically heated knitted fabric comprising warp chains formed by simple chain lapping knitted side by side in parallel and a straight carried weft cord traversed to and fro across the chains and throughout each traverse from side to side of the fabric, said weft cord being held in the loops of each succeeding row of loops of the chain.

2,157,607
TYPEWRITING MACHINE
Henry J. Hart, West Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application January 9, 1936, Serial No. 58,405
6 Claims. (Cl. 197—183)



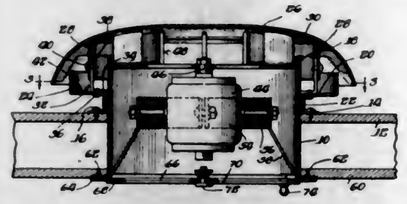
6. A self-contained sound-deadening type bar abutment adapted to be mounted on a type bar segment, said abutment comprising a front striker plate, a rear plate, connecting means extending between said front and rear plates for connecting them and limiting separating movement thereof but permitting movement of the plates relatively toward each other, and a plurality of filler plates interposed between said front and rear plates, the front and rear plates and said connecting means therebetween maintaining said filler plates in assembly with air films therebetween, the entire abutment being attachable as a unit to and removable as a unit from the type-bar segment.

2,157,608
STOVE AND RANGE
Carl H. Hoffstetter and Robert F. Hoffstetter, Erie, Pa.
Application October 19, 1938, Serial No. 235,903
6 Claims. (Cl. 126—339)



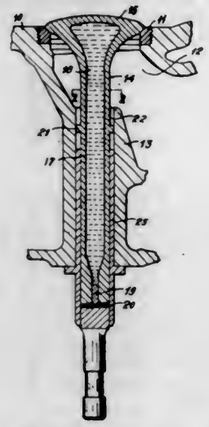
1. In a cooking range, an oven open at its front end, a rack slidably mounted in said oven and having a bottom, means for moving said rack into and out of the oven, said means comprising a hollow shaft rotatably mounted adjacent one side wall of the oven, an arm fixed to said shaft at one end, the other end of said arm extending through said side wall, and being curved to engage said bottom to move said rack into and out of said oven when said rack is appropriately rotated and means for rotating said shaft.

2,157,609
VENTILATOR
Constant C. Hopkins, Woodstock, Ill., assignor of one-half to Percy H. Waller, Chicago, Ill.
Application May 17, 1937, Serial No. 142,974
7 Claims. (Cl. 98—43)



3. In a ventilator, an upwardly extending, central tubular shaft, an annular flange projecting outwardly from the shaft at a point spaced from the upper end thereof, said flange terminating in an upwardly extending annular wall spaced from the shaft, a dome substantially enclosing the upper end of the shaft, said dome having a generally concave lower configuration and having a lower edge extending downwardly about and below the upper edge of said annular wall, and a further wall formed on the lower surface of said dome member and extending downwardly into the space between the shaft and the said annular wall.

2,157,610
VALVE FOR INTERNAL COMBUSTION ENGINES
Robert Jardine, deceased, late of Detroit, Mich., by Louise Smith Jardine, administratrix, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 29, 1937, Serial No. 150,964
2 Claims. (Cl. 123—188)



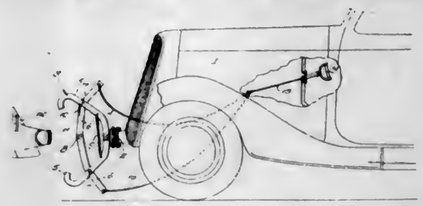
1. In combination, a valve guide having an opening with an enlargement at its upper end, and an exhaust valve having a stem operable in the guide and an annular collar of larger diameter carried by the stem and operable in said enlargement for preventing the deposit of material on the stem and guide, the stem below the collar being slidable in the guide and a portion of said enlargement providing a chamber around the stem below the collar.

2,157,611
SUSPENSION FOR DRAWERS AND ANALOGOUS DEVICES
James R. Jones and Victor A. Gronberg, Jamestown, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y.
Application August 5, 1938, Serial No. 223,294
12 Claims. (Cl. 45—77)



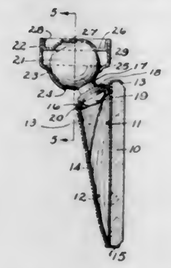
1. A suspension for drawers and analogous devices comprising a stationary guide, a movable guide, and a floating guide movable relatively to said stationary and movable guides, a propeller roller on the floating guide between the ends thereof and having rolling engagement at opposite sides of its axis with said stationary and movable guides respectively, and a second roller movable on said floating guide to and from positions in rear of and in front of said propeller roller and against which said movable guide bears in a direction opposite to the direction of its bearing against said propeller roller, said movable guide being arranged to pass forwardly out of engagement with said propeller roller while still engaging said second roller.

2,157,612
POLICE GRAB
James E. Kirk, Bremen, Ga.
Application January 17, 1938, Serial No. 185,449
2 Claims. (Cl. 294—110)



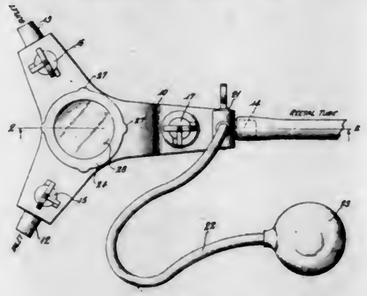
1. A device of the character described, comprising, a pair of grab arms having rear ends pivoted together and adapted to be secured to the front end of a motor vehicle, said arms fashioned with front ends formed with hook-like sections disposed towards each other, a pair of bars having ends pivoted together, a pivot pin connecting each of said bars to one of said arms between the rear and front ends of the latter for maintaining the pivoted ends of said bars between said arms, the pivoted ends of said bars movable to a position laterally of a plane intersecting the axes of said pivot pins and towards said hook-like sections for maintaining said hook-like sections in extended position relative to each other for receiving therebetween the rear bumper of another motor vehicle whereby said bumper engages said pivoted ends of said bars to move the latter to a position on the opposite side of said plane to effect closing of said hook-like sections about said bumper, and a spring connecting said arms together for urging said hook-like sections towards each other.

2,157,613
REAR VIEW MIRROR
William La Hodny, Buffalo, N. Y.
Original application December 4, 1933, Serial No. 700,806, now Patent No. 2,071,883, dated February 23, 1937. Divided and this application November 21, 1936, Serial No. 112,095
8 Claims. (Cl. 287—21)



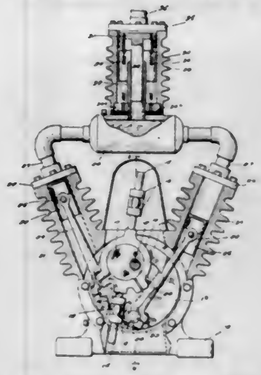
1. In combination in a bracket structure, a post, a ball at one end of the post, a casing open at the top provided with a socket carrying said ball, a support, a clamping plate carried by the casing above the ball and having flanges at right angles to the body of the plate guided by the side wall of the casing and normally projecting above the upper edge of the casing, and screw means extending through the casing and clamping plate and into the support for drawing the casing toward the support and clamping the ball between the socket and clamping plate.

2,157,614
COLONIC IRRIGATOR
Harry Lazarus, New York, N. Y.
Application July 25, 1938, Serial No. 221,176
3 Claims. (Cl. 128—227)



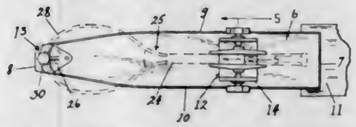
1. A device for use in colonic irrigation comprising an enclosed chamber defined by upper, lower and side walls, valve controlled means to permit flow of irrigating fluid to said chamber, valve controlled means to permit the flow of waste from said chamber, means comprising a channel through a side wall of said chamber to operatively connect the same with a rectal tube at a point remote from said chamber, said channel opening into said chamber at a point substantially above the opening into said chamber of said means to permit flow of irrigating fluid to said chamber, a valve in said channel to control the flow of fluid therethrough, and means to supply air under pressure to said channel at a point intermediate the said valve and the said point remote from said chamber.

2,157,615
COMPRESSION APPARATUS
William Le Claire, Roundup, Mont.
Application January 29, 1938, Serial No. 187,702
3 Claims. (Cl. 230—49)



1. In an air compressor, two compressors and a fluid reservoir, the cylinders of said compressors and the reservoir being in free communication, means for reciprocating the pistons in said cylinders at a differential rate to produce a periodic variation in the fluid pressure in said reservoir, and an auxiliary air compressor operated by flow of fluid from said reservoir, said auxiliary air compressor comprising a piston movable by fluid pressure in one direction and yieldingly urged in the opposite direction.

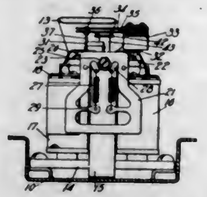
2,157,616
ALIGNING AND RACKET STRINGING DEVICE
Filemon T. Lee and Alexander D. Henry, San Francisco, Calif.
Application July 12, 1933, Serial No. 680,068
Renewed June 13, 1938
10 Claims. (Cl. 273—73)



1. In a device of the class described for holding and aligning a racket to be strung, a base, a chuck mounted on one end of said base and an oval clamp mounted on the opposite end to clamp and center the oval of the racket, a handle centering device cooperating with said chuck, said chuck having laterally adjustable jaws, said jaws being tiltable about their axes of lateral movement while in clamped position whereby the oval clamp may be released and the racket tilted upwardly without disturbing the alignment of the racket handle.

2,157,617
TELEPHONE PAY STATION
George A. Long and William W. Long, Hartford, Conn., assignors, by mesne assignments, to The Gray Manufacturing Company
Application September 17, 1936, Serial No. 101,258
3 Claims. (Cl. 194—16)

2. In a telephone pay station including electrically connected coils with a pivotally mounted armature therefor, the combination with said elements of a pair of contacts electrically connected with said coils to control flow of electric current therethrough, said contacts being spring pressed toward each other and one of said contacts having an opening therethrough, a hub on



one of said contacts projecting through said opening, and a coin operated actuating member positioned to engage said hub to hold said contacts electrically disengaged and movable to permit said contacts to electrically engage one another.

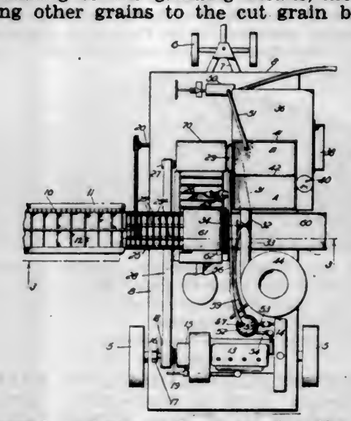
2,157,618
TIE CONSTRUCTION
Isaac Marinsky, Providence, R. I.
Application March 8, 1938, Serial No. 194,572
1 Claim. (Cl. 2—146)



In a tie construction, a tie body having a base portion and two flap portions integral therewith, said flap portions having longitudinal edges adapted to be juxtaposed, and a slide fastener for securing said edges together continuously throughout their length, said slide fastener comprising a securing tape secured to each of said longitudinal edges and positioned within the flap portions to form the lining of the tie when said flaps are closed.

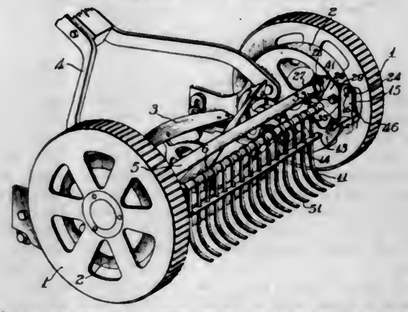
2,157,619
COMBINED HARVESTER AND GRINDER
William H. McElwain, Denver, Colo., assignor of one-fourth to Paul M. Clark and one-fourth to John M. Eckley, both of Denver, Colo.
Application April 17, 1936, Serial No. 74,927
5 Claims. (Cl. 56—1)

1. A machine of the character described for converting standing grain into ground feed, comprising in combination, means for cutting, means for grinding, means for conveying the grain from the cutting to the grinding means, means for adding other grains to the cut grain before it



is ground, and means for conveying the ground grain from the grinder to a storage receptacle.

2,157,620
MOWER ATTACHMENT
William L. McGrath, Malcolm P. Ferguson, and Maurice P. Whitney, Elmira, N. Y., and Daniel L. Wertz, Birmingham, Mich., assignors, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 25, 1936, Serial No. 70,724
6 Claims. (Cl. 56—294)



1. In a lawn mower rake a header bar partly cylindrical in cross section and having a protruding web with longitudinally spaced apertures therein, resilient tines having heads positioned on and conforming to the cylindrical portion of the header bar and extending downwardly through said apertures, and spacing and supporting means for said tines intermediate the ends thereof.

2,157,621
PRINTING CYLINDER
John P. E. Neilson, Quincy, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application March 29, 1938, Serial No. 198,653
5 Claims. (Cl. 101—415.1)

1. A cylinder having a gap, a cylindrical bearing inwardly of the gap, a shaft rotatably mounted in said bearing and receiving a substantially continuous support therefrom throughout its length, one edge of the gap being crenellated, and a bar carried by said shaft to engage the edge of

a flexible sheet for application to said cylinder and having projections corresponding to the crenels and adapted to be retracted therein to provide a clearance in the gap, said bar having



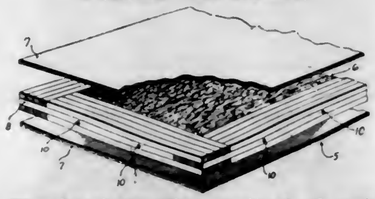
an outer face which, when the shaft is turned in a direction to carry the engaged edge of the sheet away from said edge, moves to a position lying in the surface of the cylinder.

2,157,622

METHOD OF MAKING BUILDING PANELS

Oscar Neesen, Orth-on-the-Danube, Germany, and Friedrich Alfred Siess, Munich, Germany, assignors of one-third to Jack Herly, Milwaukee, Wis., and one-third to Land- und Forstwirtschaft-liche Betriebsgesellschaft m. b. H., Vienna, Austria, a corporation of Austria

Application April 3, 1936, Serial No. 72,572
In Austria April 5, 1930
2 Claims. (Cl. 154—28)



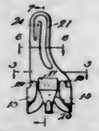
1. The hereindescribed method of making a building panel having a core of sound and heat insulating material and covered on both sides with plywood or the like, which includes surrounding the core with a wooden frame having vent holes therethrough, coating the assembled core and frame with glue on both surfaces, applying the plywood panels to the opposite surfaces of the assembled core and frame, subjecting the assembly to pressure and heat while the vent holes are closed by metal pins to prevent their collapse, which pins extend into the core, releasing the unit from the heat and pressure, and withdrawing the metal pins to allow internal moisture to escape through said vent holes.

2,157,623

NECKTIE HOLDER

Joseph J. Nugent, Pleasantville, N. Y.

Application August 19, 1938, Serial No. 225,821
3 Claims. (Cl. 2—153)



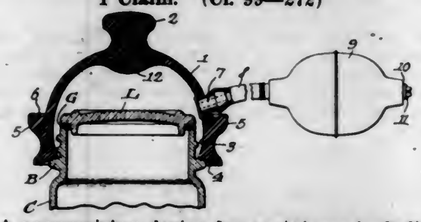
1. A neck tie holder comprising a comparatively wide body provided at the ends with inturned flanges for the reception of the end of a neck tie which is next adjacent the shirt when the neck tie is applied to the collar, said flanges being located at the rear side of the holder and fully open at the upper and lower ends to permit said portion of the neck tie to be slipped longitudinally of the holder between the flanges, means carried by the flanges for clamping said portion of the neck tie to the holder, the upper portion of the holder being extended to provide a tongue having an elongated slit, the upper portion of which slit is reversed upon the body of the tongue to provide a prong, said prong being offset from the plane of the tongue, said prong and tongue being adapted to straddle a cross over portion of the neck tie when the knot is tied and crimp and deform said portion so that said portion cannot shift in either direction.

2,157,624

VACUUMIZING DEVICE FOR CONTAINERS

George J. Overmyer, Tulsa, Okla.

Application April 26, 1937, Serial No. 138,009
1 Claim. (Cl. 99—272)



A vacuumizing device for containers including a collapsible cap of pliable material proportioned to receive the lid and adjacent end of the container to be sealed, said cap having an inwardly extended portion at the center thereof for contact with the center of the lid when the cap is collapsed, said cap having an annular seat at its open end for engagement with a portion of the container, said seat being proportioned to project outwardly from that portion of the container with which it is engaged, and means on the cap at the center thereof for receiving pressure from the palm of the hand of the user, thereby to force the inwardly projecting portion against the lid to hold the lid firmly on its container, the distance between the seat on the cap and the pressure-receiving portion being such that the fingers of the hand exerting pressure on the cap can be utilized for engaging the projecting portion of the seat to strip said seat and the adjacent part of the cap off of the container while pressure is being maintained on the lid, and means for exhausting air from the cap, said means being located at a point removed from the pressure-receiving portion of the cap.

2,157,625

HIGH MELTING POINT PARAFFIN WAXES AND COMPOSITIONS THEREOF

James M. Page, Jr., Casper, Wyo., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application August 5, 1935, Serial No. 34,726
4 Claims. (Cl. 87—19)

4. As a new composition of matter a wax mixture comprising 1% to 5% hard, brittle paraffin wax of crystalline structure having a melting point greater than 170° F. obtained from a petroleum distillate and 95% to 99% paraffin wax having a melting point of about 120 to 133° F.

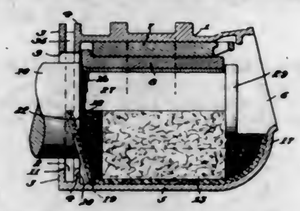
2,157,626

OIL RETAINER

William B. D. Penniman, Baltimore, Md.

Application January 23, 1935, Serial No. 3,098
5 Claims. (Cl. 308—87)

1. An oil retainer for journal boxes comprising a box-shaped member adapted to be placed in a journal box, one wall of the box-shaped member being of flexible material extended to adapt it to contact with the journal, the extended wall having a semi-circular cut out portion enabling the



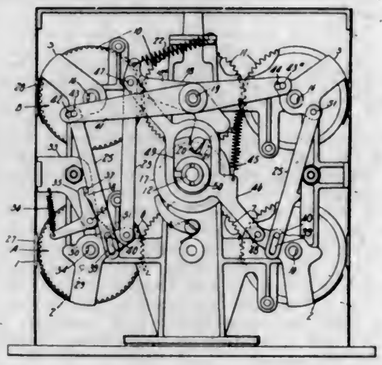
extended wall to contact with the journal over the lower half of the periphery of the journal, and spring means carried on the wall of the container for urging the flexible material into contact with the journal.

2,157,627

PRICE AND QUANTITY INDICATING COUNTER

Byron J. Pepper, Fort Wayne, Ind., assignor, by mesne assignments, to The Wayne Pump Company, a corporation of Maryland

Application June 11, 1936, Serial No. 84,600
13 Claims. (Cl. 235—144)



1. In a counting mechanism, cost and quantity counters having resetting mechanism, shutter mechanism having shutters shrouding said counters during resetting, and mechanism for successively opening said quantity and cost shutters having means for delaying the opening of said cost-counter shutter until after a predetermined operation of said quantity counter.

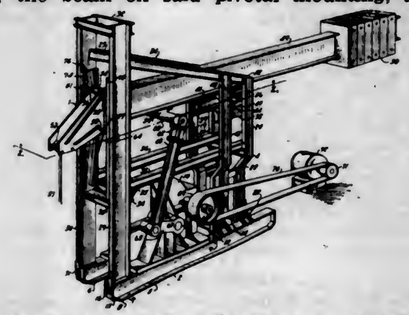
2,157,628

PUMPING RIG

Albert N. Porter, Tulsa, Okla., assignor to J. F. Darby, Tulsa, Okla.

Application January 11, 1937, Serial No. 120,049
2 Claims. (Cl. 74—103)

1. A well pumping apparatus including a support, a Samson post structure carried on the support, a track carried by the Samson post structure, a walking beam, a shifting support on said track, means pivotally mounting the walking beam on the shifting support, a guide support, cam means carried by the guide support adjacent one end of the beam, means on the beam engaging the cam means for shifting the beam relatively to the track incidental to rocking movement of the beam, means for rocking the beam on said pivotal mounting, and



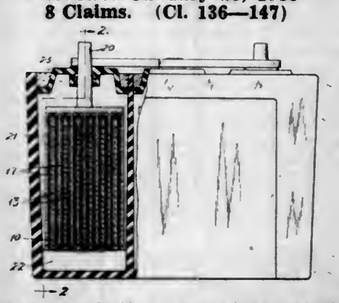
brace means connecting the Samson post structure with the guide support.

2,157,629

STORAGE BATTERY WITH UNIT INSULATION

Samuel W. Rolph, Shaker Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia

Application August 29, 1934, Serial No. 741,957
Renewed January 25, 1938
8 Claims. (Cl. 136—147)



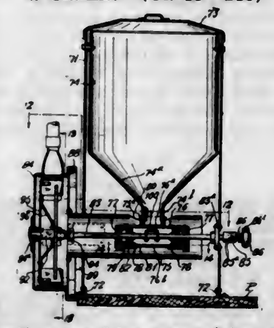
1. In a storage battery comprising positive and negative plates, a unit insulation comprising a longitudinally ribbed strip folded transversely at intervals, the folded portions extending about edges of the plates and the straight portions lying between plates.

2,157,630

DUSTING MACHINE

Ralph R. Root, Lakewood, Ohio

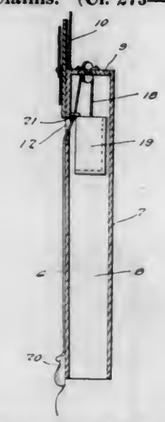
Application May 18, 1935, Serial No. 22,269
2 Claims. (Cl. 43—148)



1. A dusting machine comprising a container

for the dust, a fan housing, a tubular member secured to said fan housing and communicating therewith centrally thereof, dust feeding means arranged within said tubular member and in communication with said container and including a tubular element closed at its opposite ends by means of bearing blocks, a shaft passing through said tubular member into said fan housing and through said tubular element and the bearing blocks closing the ends thereof, means for rotating said shaft, and a fan mounted on said shaft within said housing to rotate therewith said housing being provided with an exit opening.

2,157,631
GAME DEVICE
Reba Burgess Rummel, Grayson, Ky., assignor of one-half to Adelaide Hockley, Grayson, Ky.
Application May 14, 1938, Serial No. 208,023
4 Claims. (Cl. 273—102.1)



4. A game device simulating the nursery rhyme "Dickery Dock" and comprising an imitation clock, an imitation mouse and mechanism connected to the mouse and operable to cause movement of the mouse relative to the clock, said mechanism including a target actuated by the weight of a missile aimed at the clock and trapped by said target.

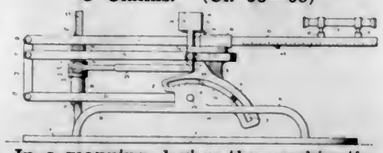
2,157,632
BEVERAGE
Abraham Schapiro, Chicago, Ill.
No Drawing. Application February 2, 1939, Serial No. 254,157
13 Claims. (Cl. 99—156)

1. The method of processing a material of the class consisting of beverages and extracts for use in the preparation of beverages to produce a stabilized product comprising treating the material with a non-toxic monochloracetic acid compound whereby the flavor of the product is improved and the maturity thereof hastened.

2,157,633
BEER AND METHOD OF PREPARING SAME
Abraham Schapiro, Chicago, Ill.
No Drawing. Application February 2, 1939, Serial No. 254,158
9 Claims. (Cl. 99—31)

1. In the method of brewing fermented malt beverages to produce a stabilized product, the step of treating the wort with a small amount of a non-toxic monochloracetic acid compound whereby the flavor of the beverage is improved and the maturity thereof hastened.

2,157,634
MAPPING DEVICE
Gustav Adolf Schulze, Brevard, N. C.
Application June 5, 1936, Serial No. 83,752
3 Claims. (Cl. 33—65)



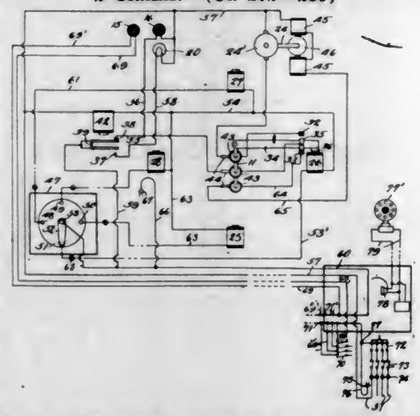
1. In a mapping device, the combination of a base adapted to be mounted on a map sheet; a pedestal rotatably mounted on said base and provided with a gauge; a post slidably mounted on said pedestal, capable of adjustment in a vertical arc described about the center of said base and map sheet, and provided with a pointer coacting with the pedestal gauge; a pair of parallel beams slidably mounted on said post, one of said beams having a gauge; a pair of aligned rods fixed on said post, each rod extending at right angles to one of said beams; a concave reflector pivoted on the end of each rod and provided with an operating lever; a pair of superposed reflectors mounted upon said post; a telescope mounted on said beams, the pivoted reflectors, superposed reflectors and telescope being so designed and related that complementary half-images are reflected by the superposed reflectors from the pivoted reflectors to the telescope; a rod slidable on the beams and having a pointer co-acting with the beam gauge; a fork on said rod; a sleeve journaled in said fork; means adapted to maintain said sleeve at right angles to the plane of the map sheet; a pair of telescoping rods pivoted on said sleeve; a cam pivoted upon each of the aligned rods on a rock shaft, each rock shaft being attached to one of the telescoping rods, and said cams operating the levers of the pivoted reflectors; an indicator rod slidably mounted in the sleeve, coacting with the map sheet, and provided with a gauge; and a pointer on said sleeve co-acting with the rod gauge.

2,157,635
VENTING DEVICE
Clarence W. Shaw, Detroit, Mich., assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 22, 1936, Serial No. 97,438
1 Claim. (Cl. 220—44)



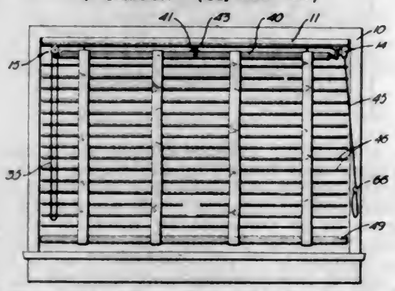
In a closure for fuel tanks or the like, the combination of a cap member having substantially centrally thereof a cup-like portion provided with a transverse bottom wall, a cover member cooperating with said cup-like portion for defining a vent chamber therein, said bottom wall having a vent aperture communicating with said chamber and located substantially on the central axis of the closure, and a metering element having a stem portion disposed in said aperture for materially reducing the area thereof, said element being tiltable and rotatable in said chamber and having laterally extending portions engageable with said cover member for limiting the tilting movement and for preventing withdrawal of the stem portion from said aperture.

2,157,636
MOTOR CONTROL SYSTEM FOR A TRAFFIC SIGNAL
Henry B. Shaw, Fort Smith, Ark.
Application November 25, 1935, Serial No. 51,510
2 Claims. (Cl. 172—239)



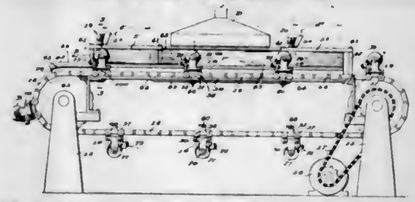
1. A traffic signal comprising a vertical shaft mounted for rotary movement, a motor for operating the shaft, horizontal switch arms mounted on the shaft to rotate therewith, one of said arms being pivotally mounted, switch members on the switch arms, wires providing a circuit between one of the switch members and motor, normally closing the motor circuit operating the motor, an armature on the free end of the pivoted switch arm, magnets disposed under the arms and arranged in a circular path directly below the path of travel of the pivoted arm to attract the armature thereof, wires providing circuits between a source of electricity supply and the magnets, means for completing the circuit to the magnets at intervals attracting the armature and breaking the circuit to the motor periodically stopping the shaft, and means for returning the pivoted switch arm to its normal position completing the circuit to the motor, when the circuits to the magnets are broken.

2,157,637
VENETIAN BLIND OPERATING MECHANISM
William E. Shehan, Los Angeles, Calif.
Application September 18, 1936, Serial No. 101,453
7 Claims. (Cl. 156—17)



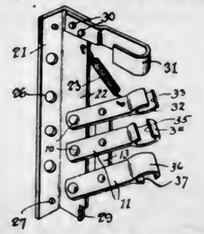
1. In combination with a tilt rail, a pair of tilt rail brackets, one disposed at each end of a tilt rail, an oscillating member carried by each of said brackets, said members rotating around a common fixed axis, driving means for one of said oscillating members, and inter-engaging means between the oscillating members and the tilt rail whereby the tilt rail will be supported with its central axis eccentrically of the common rotating axis of the oscillating members.

2,157,638
STENCILING APPARATUS
Leonard D. Soubier, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application September 30, 1937, Serial No. 166,619
21 Claims. (Cl. 101—115)



17. In an apparatus for applying decorations to circumferentially spaced regions on the cylindrical sides of articles, a plurality of article holding units each including a rotary chuck for supporting an article, means for moving said units successively past a receiving zone and first and second decorating zones, decorating instrumentalities in the vicinity of each decorating zone including a stencil screen with which the articles come into tangential rolling line contact, tractional means operable during the travel of the articles from said receiving zone to the first decorating zone for successively rotating said articles about their respective axes, means for arresting such rotation and thus causing slippage of said tractional means when said articles have attained a predetermined orientation in their respective units, and tractional means operable during travel of the articles from the first decorating zone to the second decorating zone for rotating the articles throughout a predetermined angle.

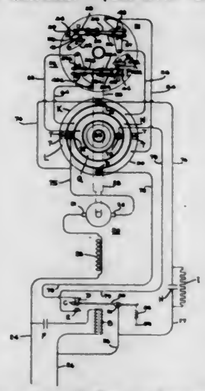
2,157,639
SAFETY HITCH
William F. Staggers, Mannington, W. Va.
Application March 19, 1938, Serial No. 196,976
7 Claims. (Cl. 24—132)



2. In a safety hitch of the type described, the combination of a base, a series of hitch bars pivotally mounted on the base and terminating in slotted loops, the slots of two of the loops being disposed in reverse lateral position from each other, a short bar pivotally attached to and operatively connecting said bars in spaced relation, a spring resiliently securing said bars in a pre-

determined hitching position, a fourth bar affixed to the upper end of the base member and disposed at right angles thereto and terminating in an open loop to permit of operatively engaging the cable in the various loops without decreasing the safety of the hitch.

2,157,640
UNIVERSAL MOTOR SPEED GOVERNOR
Stanley H. Swarthout, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 23, 1938, Serial No. 215,426
3 Claims. (Cl. 171—312)



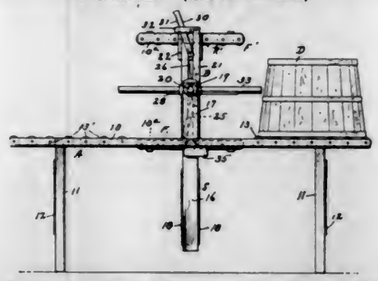
1. A control circuit for universal motors comprising, in combination, two speed responsive circuit breakers driven by the motor, means for automatically selectively connecting one or the other of said circuit breakers in circuit with the motor depending on whether the motor operates on direct current or on alternating current, whereby the motor speed will be regulated when the motor operates on either kind of current, and means for automatically reversing polarity through the contacts of that speed responsive circuit breaker which regulates the speed of the motor when operating on direct current.

2,157,641
DOOR DOVETAIL CONSTRUCTION
George A. Tinnerman, Rocky River, Ohio, assignor to Albert H. Tinnerman, Cleveland, Ohio
Application May 20, 1937, Serial No. 143,786
11 Claims. (Cl. 189—36)



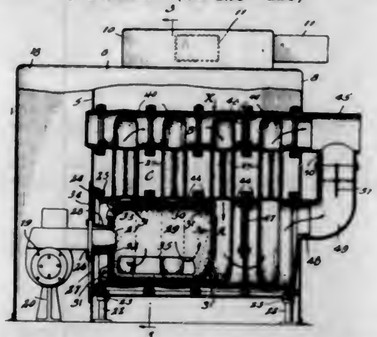
1. An adjustable connection comprising, in combination, a supporting wall having an aperture, a member to be mounted thereon, a retaining element having integral bolt receiving means deformed therefrom, integral keeper means provided on said wall comprising a lug element struck and formed therefrom to project out of the plane thereof, said keeper means being adapted to hold the retaining element in adjustable assembled relation on the wall preparatory to the application of a bolt through the aperture in the wall to engage with the said integral bolt receiving means of the retaining element to mount the said member in adjustable position on the supporting wall.

2,157,642
TURNING TABLE
Arthur E. Vosler, Medina, N. Y., assignor to Niagara Sprayer and Chemical Co., Inc., Middleport, N. Y., a corporation
Application October 19, 1936, Serial No. 106,478
13 Claims. (Cl. 214—130)



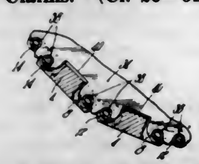
1. A turning device for reversing the position of a basket or the like, comprising a table like support over which the basket may be moved and having an opening in its top, a rotatively supported carrier positioned in register with said opening, said carrier including oppositely disposed relatively adjustable frames normally positioned one above the other to alternately lie in said opening and constructed to clamp a basket or other article between them, means for effecting relative clamping adjustment of said frames, means operated by the pressure of the basket thereagainst for actuating said adjusting means, when the basket is positioned between the adjustable frames, and means by which the carrier may be rotated.

2,157,643
OIL-FIRED FURNACE
John W. Westwick, Galena, Ill.
Application March 16, 1938, Serial No. 196,241
9 Claims. (Cl. 126—116)



1. A warm-air furnace embodying a casing; a furnace body housed in said casing, said body provided with horizontal upper and lower inner passages communicating with each other and adapted to be traversed by products of combustion, said body provided also with outer passages adapted to be traversed by air being heated; and a fire-chamber unit disposed in the lower horizontal inner passage, said unit embodying a hollow shell provided with means solely in its lower portion for egress of products of combustion therefrom into said lower horizontal passage, said shell also provided with other means for discharging ignited fuel thereinto.

2,157,644
TENTER MACHINE
John H. Williams, Jr., Providence, R. I.
Original application May 6, 1938, Serial No. 206,445. Divided and this application September 13, 1938, Serial No. 229,715
2 Claims. (Cl. 26—61)



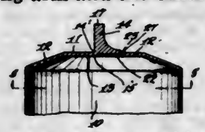
1. A tenter chain and sprocket construction comprising in combination, a plurality of tenter clips having central body portions and spaced upper and lower lugs at opposite sides thereof, a plurality of links each having a pair of upper and lower plates with the opposite ends of said plates disposed between the upper and lower adjacent lugs of adjacent clips, bushings between said plates at opposite ends thereof, pins extending through said lugs, ends of said plates and bushings to connect the links to the clips, and a sprocket having teeth each of which includes a part for entering between the bushings of the links and recesses at the sides thereof for receiving the bushings of the links and recesses between the teeth for loosely receiving the bodies of the clips whereby the bodies of the clips are closely related to the pitch line of the sprocket.

2,157,645
METHOD OF MAKING A PLASTIC COMPOSITION
Manuel R. Ximenez, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
No Drawing. Application March 14, 1936, Serial No. 68,886
1 Claim. (Cl. 106—40)

A method of making molded articles which comprises forming an intimate mixture of diatomaceous earth and cellulose acetate by precipitating the acetate in uncolloided form from a cellulose acetate solution through the use of a precipitating medium in the presence of a suspension of diatomaceous earth and separating the precipitating medium from the mixture, adding said mixture to an aqueous dispersion of a cellulose acetate plasticizer and forming an intimate admixture therewith, filtering the mixture thus formed, and subjecting the resultant product to an elevated temperature, to form a solution of the acetate in the plasticizer and cause intimate association of the said solution and diatomaceous earth.

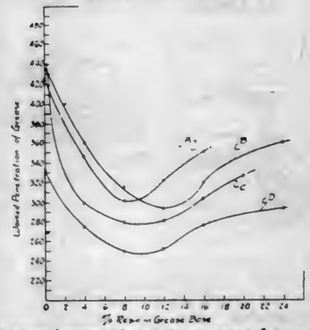
2,157,646
SINGLE USE TUBE
Edwin H. Barker, Moylan, Pa., assignor to A. H. Wirz Inc., Chester, Pa., a corporation of Pennsylvania
Application October 1, 1938, Serial No. 232,814
12 Claims. (Cl. 220—27)

1. A collapsible metallic tube including a shoulder and a lever integral with the shoulder, one lever arm extending away from the shoulder as an operating arm and the other arm, a tearing



arm, forming part of the shoulder and having a wide fulcrum end and a narrow tearing end.

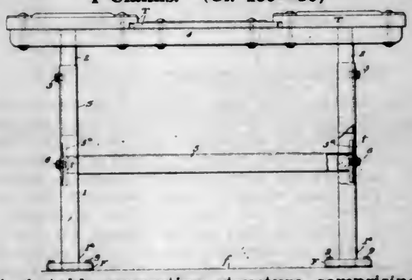
2,157,647
LUBRICATING GREASE
Paul E. Burchfield, Lansdowne, Pa., assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
Application April 1, 1938, Serial No. 199,481
8 Claims. (Cl. 87—9)



1. An aluminum stearate grease base comprising an intimate mixture of aluminum stearate and a natural resin material of acid number not less than 25, the said ingredients being present in approximately the following proportions by weight:

	Parts
Resinous material	2 to 16
Aluminum stearate	98 to 84

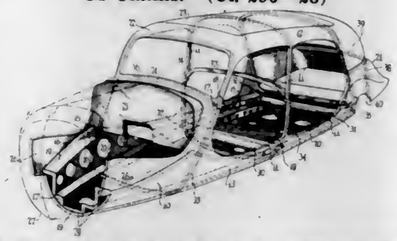
2,157,648
WORK TABLE
Daniel H. Chason, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 25, 1936, Serial No. 76,362
4 Claims. (Cl. 189—36)



4. A table-supporting structure comprising a pair of upright metal leg members, substantially U-shape in horizontal cross-section arranged with their open sides facing each other, a horizontally disposed brace member connecting said legs and comprising a metal bar of substantially inverted U-shape in cross-section, vertically ar-

ranged feet rigidly secured to the opposed walls of the opposite ends of said bar, said feet projecting materially above and below said bar and being adapted to fit within said legs and to engage the intermediate walls thereof at substantial distances above and below said bar, and bolts extending through said feet and leg members substantially in alignment with the longitudinal axis of said brace for rigidly securing said feet within said leg-members.

2,157,649
COMBINED BODY AND CHASSIS CONSTRUCTION
Carolus L. Eksergian, Detroit, Mich., assignor to Edw. G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 31, 1934, Serial No. 728,362
Renewed June 17, 1938
34 Claims. (Cl. 296—28)



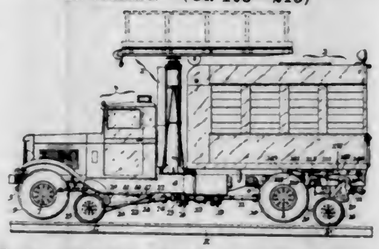
1. In a combined body and chassis construction, body side panels extending continuously at least from the front wheel suspension to the rear wheel suspension, and inner angular cross section side sill elements of similar longitudinal extent forming with the body side panels closed box section combined body and chassis sill structures connected by cross connections and adapted to carry the motor, flooring and seat structures, said sill elements being vertically at least twice as deep in the region of the front posts as their depth some distance rearwardly of said region.

2,157,650
METHOD FOR CONVERTING ROAD-RAIL VEHICLES FROM ONE USE TO THE OTHER
Frederick K. Fildes, Altoona, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 3, 1936, Serial No. 113,974
1 Claim. (Cl. 105—215)



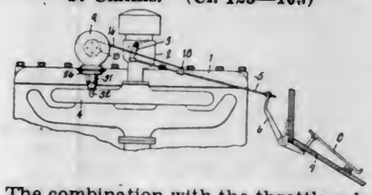
The method of manipulating a convertible road-rail motor vehicle having a body, two pairs of plain highway wheels on the body, two pairs of auxiliary flanged wheels connected to the body with capacity for being raised above or lowered below the plain wheels, means whereby the auxiliary wheels may be secured either in raised or lowered positions, and power means on the vehicle capable of selective use to drive either the plain or the auxiliary wheels, said method comprising placing on a station platform flush with the tops of the rails of a railway track, adjacent each rail, a pair of ramp blocks; then driving the vehicle onto the platform under propulsion of its plain wheels and running the latter up the ramp blocks; then releasing the flanged wheels and allowing them to lower by gravity onto the track rails; then securing the flanged wheels in lowered position; then running the plain wheels off the blocks for support of the vehicle by the flanged wheels; then driving the vehicle on the track to the desired destination under propulsion of the flanged wheels; then placing the ramp blocks as before on a platform flush with the tops of the rails at the destination station and running the plain wheels up the blocks; then unsecuring the flanged wheels; then running the plain wheels off the blocks and at the same time running the flanged wheels up the blocks thereby effecting their elevation to normal raised positions; then securing the flanged wheels in raised position; and finally driving off the platform under propulsion of the plain wheels.

2,157,651
ROAD-RAIL VEHICLE
Frederick K. Fildes, Altoona, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 3, 1936, Serial No. 113,975
14 Claims. (Cl. 105—215)



1. In a road-rail vehicle, a chassis frame and body supported, with interposition of springs by front and rear wheels for highway use; flanged auxiliary front and rear wheels for rail use; articulated suspensions normally disconnected from the springs and permitting lowering of the auxiliary wheels from a normally inactive position to active position to support the load in lieu of the highway wheels; and means whereby the auxiliary wheel suspensions can be connected to the springs for absorption of travel shocks incident to rail use of the vehicle.

2,157,652
THROTTLE CONTROL DEVICE
Henry H. Merriman, Kalamazoo, Mich.
Application July 13, 1938, Serial No. 219,047
17 Claims. (Cl. 123—103)



1. The combination with the throttle valve and intake manifold of an internal combustion engine and a manually operated throttle control member, of a housing having a fixed spindle therein, a brake drum rotatably mounted on said spindle, a pulley rotatable with said drum, a torsion spring connected at its ends to said spindle and brake drum, a tension member connected to said pulley to wind thereon and with said throttle control member for applying rotative movement to the drum in opposition to said torsion spring when the throttle valve is opened, a brake shoe operatively associated with said brake drum, a thrust member operatively associated with said brake shoe, a coiled spring acting on said thrust member to actuate said brake shoe, a diaphragm housing in communication with said intake manifold, and a diaphragm in said housing operatively connected with said thrust member whereby to retract the same under the influence of the vacuum in the manifold.

2,157,653
MANUFACTURE OF ARTICLES FROM STEEL ALLOYS
Friedrich Karl Naumann, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany
No Drawing. Original application March 3, 1934, Serial No. 713,925. Divided and this application September 13, 1937, Serial No. 163,618. In Germany March 20, 1933
6 Claims. (Cl. 75—123)

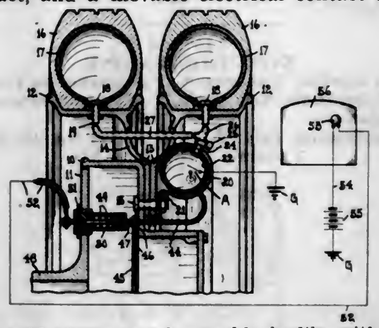
1. Articles which in their normal use are subjected to the attack of hydrogen at high hydrogen partial pressures and high temperatures, said articles being composed of a steel alloy consisting of carbon not over 1%, over 0.3% and not over 5% of one or more elements selected from the group vanadium, columbium, tantalum; the remainder substantially iron with silicon not over about 1.5% and a manganese content within the usual range for low alloy steels.

2,157,654
MANUFACTURE OF ARTICLES FROM STEEL ALLOYS
Friedrich Karl Naumann, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany
No Drawing. Original application March 3, 1934, Serial No. 713,926. Divided and this application September 13, 1937, Serial No. 163,619. In Germany March 20, 1933
8 Claims. (Cl. 75—126)

1. Articles which in their normal use are subjected to the attack of hydrogen at high hydrogen partial pressures and high temperatures, said articles being composed of a steel alloy consisting of carbon not over 1%; up to 30% of material from the group consisting of chromium, molybdenum, tungsten, and vanadium; and an effective amount not over 5% of material from the group consisting of zirconium and thorium; the remainder substantially iron with silicon not over about 1.5% and a manganese content within the usual range for low alloy steels.

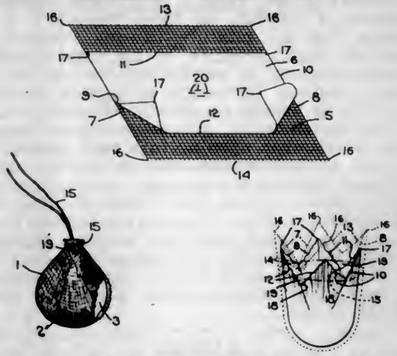
2,157,655
TIRE ALARM
Henry H. Brandert and Luther J. Brandert, Herman, Nebr., assignors of twenty-five per cent to Henry Truhlsen, Herman, Nebr.
Application May 19, 1936, Serial No. 80,631
1 Claim. (Cl. 200—58)

A dual tire structure comprising a pair of pneumatic tires having the usual air inlet valves, an air reservoir in the form of a pneumatic tube having an air inlet valve, a T-coupling having one opening connected to said tube, and a second opening connected to the valve of one of said tires, and a conduit connected to the valve of the other tire and to the third opening of the T-coupling, a plunger having one end in contact with said tube, the opposite end of said plunger being provided with a recess, a guide stud having one end received by the recess in the plunger, a nut adjustably mounted on said stud, a coil spring surrounding the stud and engaging the nut and the recessed end of the plunger, a fixed electrical contact, and a movable electrical contact rigid



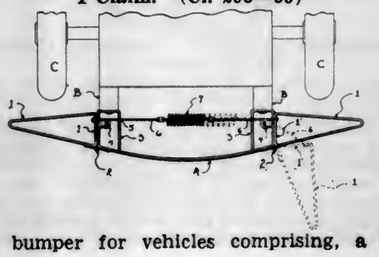
with said plunger and movable bodily with the plunger, said pneumatic tube adapted to maintain the plunger in a position in which its contact is spaced from the fixed contact when the tire is properly inflated.

2,157,656
TEA BAG, COFFEE BAG, AND THE LIKE
Ralph N. Doble, Hingham, Mass.
Application June 23, 1937, Serial No. 149,891
12 Claims. (Cl. 99—77.1)



3. A bag containing material for making an individual cup of infusion, said bag having an exterior envelope of fabric and a lining of paper, said lining being provided with a vent opening above the material contained in the bag.

2,157,657
VEHICLE BUMPER
Elton Eaton, Beloit, Wis.
Application April 11, 1938, Serial No. 201,357
1 Claim. (Cl. 293—55)



A bumper for vehicles comprising, a body

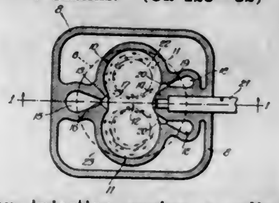
portion, bumper sections pivoted to the ends of the body portion, rollers mounted upon said body portion adjacent the end sections, runners secured to the end sections, and trained over the rollers, and a single coil spring connecting the runners.

2,157,658

INJECTION ENGINE

Hans Fischer, Yonkers, N. Y., assignor to Lanova Corporation, New York, N. Y., a corporation of Delaware

Application July 22, 1937, Serial No. 155,032
7 Claims. (Cl. 123—32)



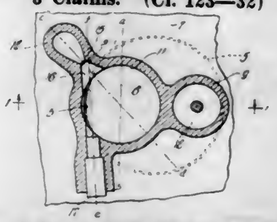
1. In an injection engine, a cylinder and a piston operating therein, a combustion chamber opening into said cylinder, a primary supplementary chamber opening into said combustion chamber at one side thereof through a restricted orifice and a passage leading therefrom flaring inward of said combustion chamber, an injection nozzle having a port at the opposite side of said combustion chamber disposed to inject fuel toward and into said passage and into said primary chamber in amount to form therein a quick burning fuel-air mixture causing creation of relatively high pressure within said primary chamber incident to combustion therein and resultant ejection therefrom of a high pressure high velocity blast through said passage into said combustion chamber, and a secondary supplementary chamber opening into said combustion chamber at said opposite side thereof through a restricted orifice and a passage leading therefrom flaring inward of said combustion chamber and substantially opposed to and in the path of travel of the blast ejected from said primary chamber, whereby said secondary chamber is charged by said blast with a quick burning fuel-air mixture, said secondary chamber being otherwise closed to entry of fuel.

2,157,659

INJECTION ENGINE

Hans Fischer, Yonkers, N. Y., assignor to Lanova Corporation, Long Island City, N. Y., a corporation of Delaware

Application October 23, 1937, Serial No. 170,570
3 Claims. (Cl. 123—32)



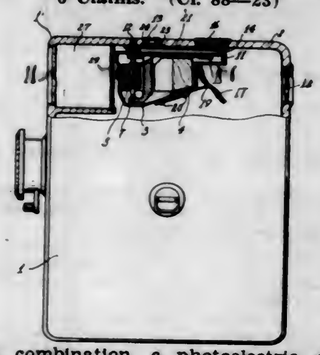
3. In an injection engine comprising a cylinder and a piston operating therein, a combustion chamber substantially elliptical in plan opening into said cylinder, a supplementary chamber opening into said combustion chamber through a restricted orifice and a funnel-like passage leading from said orifice flaring inward of said combustion chamber, said orifice and passage being disposed to direct a high pressure high velocity fluid stream ejected from said supplementary chamber across said combustion chamber along a horizontal line, and a fuel injection nozzle having a port disposed to inject a stream of fuel into said combustion chamber and into said passage along a second horizontal line in the same horizontal plane as said first horizontal line, said lines intersecting within said flaring passage at an acute angle, said first and said second horizontal lines being in different vertical planes, the distance between the port of said nozzle and said orifice and passage being such as to assure entry of injected fuel into said supplementary chamber in proper amount to form with the air therein a fuel air mixture so proportioned as to give the maximum rate of and complete combustion effective for ejecting a high pressure high velocity fluid stream from said supplementary chamber through said orifice and passage.

2,157,660

PHOTOELECTRIC EXPOSURE METER

Otto Fischer, Dresden, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany

Application November 28, 1936, Serial No. 113,224
In Germany November 28, 1935
6 Claims. (Cl. 88—23)



1. In combination, a photoelectric exposure meter provided with a measuring instrument, a camera having a top wall and a rear wall, said measuring instrument being positioned within said camera and including a movable pointer and a flat dial plate arranged in a plane parallel to one of said walls, a window in said last named wall and directly over the graduated face of said dial plate means within said camera for reflecting an image of said graduated face of the dial plate and a portion of said pointer toward the other one of said walls, and a window in said last named wall for viewing said reflected image.

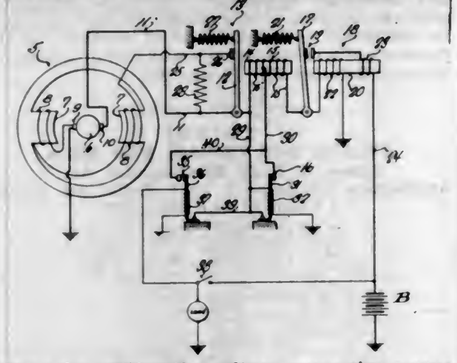
2,157,661

GENERATOR OUTPUT REGULATOR SYSTEM

John W. Fitz Gerald, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application December 9, 1937, Serial No. 178,948
5 Claims. (Cl. 171—314)

1. In combination: a generator; a battery connected with the generator and adapted to be charged thereby; current responsive means for regulating the charging rate; voltage responsive means for augmenting the current responsive means to make the same operable at a lower amperage; said voltage responsive means functioning only upon the attainment of a predetermined maximum voltage; means for connecting a load across the battery; and means operable upon connection of the load across the



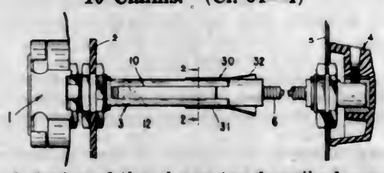
battery for cutting the voltage responsive means out of the circuit.

2,157,662

SHAFT CONSTRUCTION

William H. Fritz, Milwaukee, Wis., assignor to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware

Application July 16, 1938, Serial No. 219,547
10 Claims. (Cl. 64—4)



1. A device of the character described comprising a shaft having a longitudinal slot extending out through one end thereof, and a strip receivable in said slot and having its inner end pivotally interconnected with the shaft adjacent the inner end of the slot, the outer end of the strip terminating adjacent the outer end of the shaft whereby the outer end portions of the shaft and strip may be selectively cut away to provide a tongue or socket coupling formation.

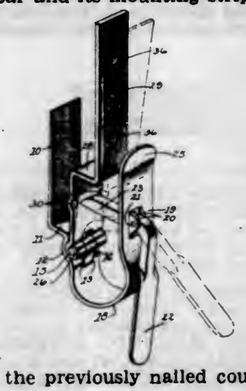
2,157,663

SHINGLING GAUGE HOLDER

John H. Giebink, Waupun, Wis.

Application November 29, 1937, Serial No. 177,032
4 Claims. (Cl. 33—188)

1. A shingling gauge bar holder, comprising the combination of a stamped sheet metal shingle engaging strip of resilient sheet metal, wedge-shaped at one end, hook-shaped in the other end portion and intermediately offset to provide a shingle butt receiving shoulder, a gauge bar mounting strip of similar material having one end forked and pivoted to the shingle receiving plate immediately below its shoulder and near the bend of the hook, the mounting strip being provided with cylindrically rounded clamping projections, upset in the direction of the wedge-shaped plate near its hinged connection with the mounting strip, and a third sheet metal plate upset and elbowed to form a channel bar lever, with its elbowed portion extending through said hook and pivotally secured thereto in a position with one end of the lever in clamping relation to the mounting strip above its hinge, whereby the gauge bar may be moved to clamping position without resistance and the entire clamping pressure of the lever and its resilient supporting hook may be exerted to hold the gauge bar and its mounting strip in engagement with the previously nailed course of shingles.

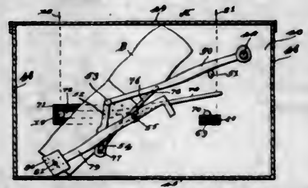


2,157,664

RETARDED SWITCH

Louis E. Hansen, Spokane, Wash., assignor of twenty-four and one-half per cent to William B. Robinson and twenty-four and one-half per cent to Albert Rutherford, both of Spokane, Wash.

Application April 27, 1938, Serial No. 204,553
7 Claims. (Cl. 200—83)



1. In a time actuator for electric switch devices, an electric switch, a rocking time body adapted to contain an actuating liquid, a non-return valve means dividing said body into switch opening and closing chambers and said valve structure opening under liquid impulse for quick transfer of the liquid from said switch opening to said switch closing chamber when said body is manually or mechanically rocked from a switch opening to a switch closing position, and said valve means having restricted air and liquid openings for delayed passage of the liquid back to said switch opening chamber, a weight for rocking and holding said body into a return flow position, means actuated by said body for causing said switch to close when said body is in switch closing and return gravity flow positions and opening said switch when the return flow has over-balanced said body into a switch opening position, and means for regulating one of said openings to vary the timing action of said body.

2,157,665

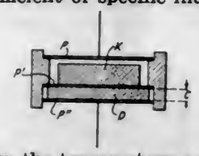
CRYSTAL MOUNTING WITH TEMPERATURE COMPENSATION

Hans Erich Hollmann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 17, 1936, Serial No. 106,106
In Germany October 16, 1935
13 Claims. (Cl. 171—327)

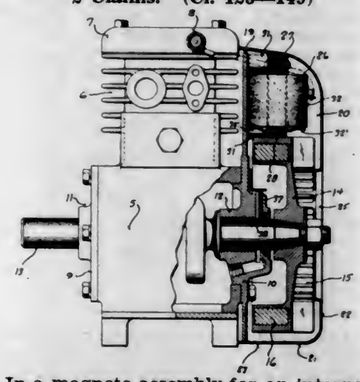
1. A piezo-electric crystal holder comprising a casing of dielectric material, a crystal within the

holder, a condenser incorporated in the holder, a portion of said casing constituting the condenser dielectric, said dielectric material having a temperature coefficient of specific inductive capacity



determined by the temperature coefficient of frequency of the crystal, electrodes for said crystal and condenser, at least one of the electrodes being located at the top of the casing and another at the bottom thereof.

2,157,666
FLYWHEEL MAGNETO ASSEMBLY FOR INTERNAL COMBUSTION ENGINES
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application September 16, 1936, Serial No. 101,125
2 Claims. (Cl. 123—149)

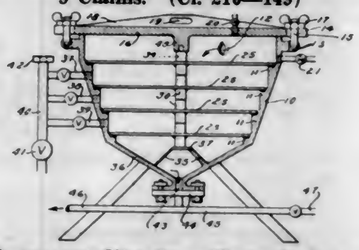


1. In a magneto assembly for an internal combustion engine having a crankcase, a crankshaft and a cylinder mounted on the crankcase, a plate closing one side of the crankcase and having a part projecting alongside the cylinder, a bearing on the plate for the crankshaft, magneto parts carried by the plate adjacent to the bearing, a hollow flywheel mounted on the crankshaft and cooperating with the plate to enclose the magneto parts, a permanent magnet carried by the flywheel and having poles facing the exterior of the flywheel rim, and an armature coil core mounted on the side of the plate opposite the cylinder so that the plate constitutes a heat barrier between the cylinder and the armature coil core, said core having limbs providing poles in close juxtaposition to the path of the magnet poles to be swept thereby as the flywheel revolves.

2,157,667
DYESTUFF AND METHOD OF MAKING THE SAME
Paul W. Jewel and John R. Pratt, Los Angeles, Calif., assignors to Max Factor & Co., Los Angeles, Calif., a corporation of Delaware
No Drawing. Application June 15, 1938, Serial No. 213,823
11 Claims. (Cl. 260—335)

1. A method of making a dihydroxy, dicarboxy fluoran dye in which the hydroxy and carboxy radicals are on the benzene rings that are linked through an oxygen bridge, comprising: reacting one molecular equivalent of phthalic anhydride with two molecular equivalents of resorcylic acid in one step, in the absence of alkalies, in the presence of a dehydrating agent and at a temperature of between 125° C. and 205° C.

2,157,668
FILTER FOR CREAM AND MILK
James M. Kidd, Birmingham, Ala.
Application February 3, 1937, Serial No. 123,768
5 Claims. (Cl. 210—149)



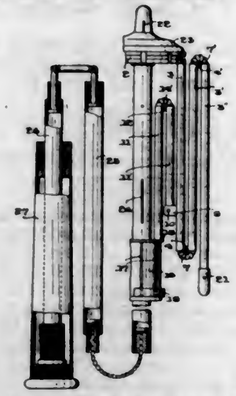
5. A pressure filter for milk products and the like, comprising a casing having a movable top cover, a top inlet, a bottom outlet, and a stepped series of filter disk seats decreasing downwardly in size and having a raised packing anchored in the working face of each seat in position to support its respective filter disk with a leak-tight joint when such disk is working under pressure normally prevailing in the filter, and a series of loose, separately removable filter disks adapted to the several seats and comprising a rigid perforated plate, a filter element superimposed thereon, a marginal smooth face ring secured to the under periphery of each plate in position to engage the packing ring on its respective seat, and marginal means to hold the filter element in superimposed relationship on its respective plate.

2,157,669
PRIMING MIXTURES
Wilbur A. Lazier, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 26, 1937, Serial No. 176,636
11 Claims. (Cl. 52—2)

1. A deflagrating composition comprising an oxidizing ingredient, a fuel ingredient, and a catalyst which is a chromite of a heavy metal.

2,157,670
FOLDABLE UMBRELLA FRAME
Sonoji Ono, Ohme-machi, Nishi Tama-gun, Tokyo-fu, Japan
Application September 1, 1937, Serial No. 161,960
3 Claims. (Cl. 135—25)

3. In a folding umbrella, a staff, a head on the upper end thereof, a series of sectional ribs each consisting of a plurality of hingedly connected tubular sections, said ribs being hingedly connected at their inner ends to said head, a plurality of rib stiffening rods slidable in each rib to move into and out of position across the joints of the rib, a constant length flexible chain connecting said stiffening rods, said ribs each having one of its sections provided with a slot, a lug carried by one of the rods of each rib and projecting through the slot for movement of said rods in said rib, a runner slidable on said staff, a series of rib braces hinged to the upper end of said runner, each of said braces consisting of a plurality of hingedly connected sections, a stiffening rod slidable in each brace into and out



of position across the brace joint, a sliding ring mounted on said runner, and constant length chains each having one end attached to said ring and its other end attached to a respective brace stiffening rod, each of said braces being pivoted to a respective lug.

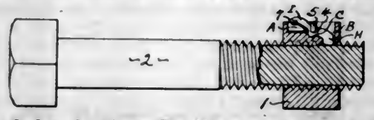
2,157,671
WATER CHECK FOR DRAINAGE DITCHES
Carman G. Payne, Olathe, Kans., assignor of one-half to Firman L. Carswell, Kansas City, Mo.
Application July 29, 1937, Serial No. 156,354
5 Claims. (Cl. 61—29)



1. A water check for a drainage ditch comprising a body portion consisting of a series of overlapping, planar sections, interconnected and relatively adjustable to conform to the cross sectional contour of a drainage ditch; a relatively wide head formed on the up-stream side and at the top edge of each of said sections; a splash apron carried intermediate the top and bottom edges of certain of said planar body sections whereby a continuous splash apron is formed longitudinally of said check, adjacent splash apron being notched and overlapped; and means to secure said sections in the operative position.

2,157,672
NUT LOCK
Leslie F. Pierce, Lebanon, Kans.
Application May 2, 1938, Serial No. 205,507
2 Claims. (Cl. 151—12)

1. A nut lock of the character described adapted to engage a slotted bolt, comprising a nut having a longitudinal slot formed in its wall and extending throughout the major length of the nut, the slot adjacent one end passing entirely through the wall, a cylindrical opening formed in the wall in transverse vertical alignment with the slot, a plug positioned in said opening, means for preventing displacement of the plug, a latch member arranged in the slot, means carried by the plug for providing a pivotal fulcrum for the latch, one end of said latch adapted to normally extend beyond the outer face of the nut, a spring for urging the



extended end outwardly, the oppositely positioned end of the latch adapted to normally extend through said slot for engagement with the slotted bolt.

2,157,673
FREE MACHINING OPEN HEARTH STEEL
James A. Ridgely, Cincinnati, Ohio, assignor to W. J. Holliday & Co., Indianapolis, Ind., a corporation
No Drawing. Original application June 15, 1937, Serial No. 148,324. Divided and this application January 8, 1938, Serial No. 184,025
2 Claims. (Cl. 75—123)

1. An alloy steel having an approximate composition as follows:

	Per cent
Sulphur	.18 to .30
Manganese	1.00 to 1.50
Phosphorus	.02 maximum
Silicon	.02 maximum
Carbon	.08 to 0.75

and the balance being substantially all iron, said steel being sufficiently free from segregations of manganese sulphide to have a relatively high ductility, and a compensated machinability-strength rating of at least 140 based on cold drawn material.

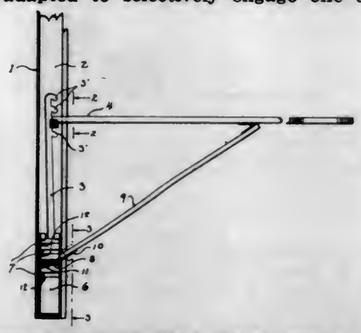
2,157,674
PROCESS OF MANUFACTURING A FREE MACHINING CASE-HARDENING STEEL
James A. Ridgely, Cincinnati, Ohio, assignor to W. J. Holliday & Co., Indianapolis, Ind., a corporation
No Drawing. Application June 15, 1937, Serial No. 148,324
16 Claims. (Cl. 29—148)

1. The process of manufacturing a free machining steel comprising adding to a fused mass of steel containing insufficient manganese and sulphur to form substantial segregations of manganese sulphide, material of the group of materials consisting of manganese and sulphur, in an amount sufficient normally to form segregations of manganese sulphide, the addition being carried out at a temperature approximately 2500°–2600° F., whereby no substantial segregations of manganese sulphide are formed.

2,157,675
FOLDABLE IRONING BOARD
Gustave T. Rieter, Cedarburg, Wis.
Application March 17, 1938, Serial No. 196,432
2 Claims. (Cl. 38—127)

1. A foldable ironing board comprising side panel supports having vertically disposed channels terminating at their upper end with a series of forwardly extended locking notches, a series of horizontally disposed open-mouthed grooves at the base of the channels, an ironing board having trunnions at its inner end adapted to selectively engage said panel channels and locking notches, a brace strut hingedly secured to the board at a

distance from its trunnioned end, and a transversely disposed elongated supporting foot hingedly secured to the bottom end of the strut and adapted to selectively engage one of the



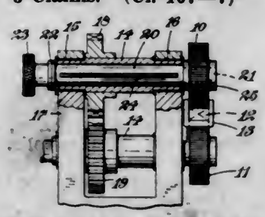
transverse open-mouthed panel grooves for a substantial distance along said grooves, whereby the board is held against positive swinging in either direction.

2,157,676

APPARATUS FOR FEEDING PLASTIC MATERIAL IN BAR FORM, SUCH AS TOFFEE IN WRAPPING MACHINES

Alfred German Rose, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company

Application March 24, 1938, Serial No. 197,965
In Great Britain January 19, 1937
3 Claims. (Cl. 107—7)



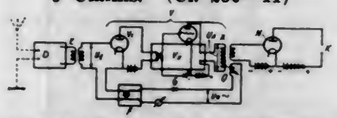
1. Bar feeding apparatus of the type described having, carried on a frame, a feed roll assembly comprising at least two rolls carried on driving spindles and arranged to form between them a nip to engage the bar to be fed, gear wheels in driving engagement with the spindles for transmitting rotary motion to the rolls respectively and a guide channel for the bar partly embracing at least one of the rolls in such manner as to prevent substantial movement thereof in the axial direction, characterized by means for the ready release from its driving spindle of the roll so engaged consisting of a sleeve which is supported in bearings in the frame, which surrounds the driving spindle and to which the driving gear is fixed, means for transmitting rotary motion of the sleeve to the spindle which allow of endwise sliding movement of the spindle within the sleeve, means for transmitting rotary movement of the spindle to the roll and releasable detent means tending to prevent endwise movement of the spindle within the roll, the arrangement being such that by an endwise pull applied to the spindle it may be withdrawn through the sleeve to an extent sufficient to disengage it from the roll and to release the roll for movement in a direction parallel to its plane free of the embrace of the guide channel.

2,157,677

RECEIVER FOR OBSERVING TWO DIFFERENT SIGNALS

Wilhelm Runge, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application January 21, 1936, Serial No. 60,052
In Germany January 10, 1935
9 Claims. (Cl. 250—11)



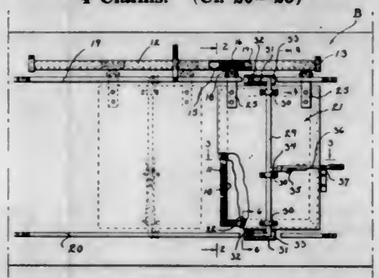
1. A receiving system for the observation of two different signals, each one of said signals having a different arrangement of time lengths of impulses comprising an input and output circuit, an amplifier having a grid bias circuit coupled to said input circuit, an automatic volume control, a detector and a filter circuit coupled by a coupling device to the output of said amplifier, said filter circuit arranged to detect and smooth out the shortest time length of signal impulses received in said input circuit, said coupling device being connected in series with said detector, said filter and the grid bias circuit of said amplifier to provide grid bias potentials for controlling said amplifier to pass only the beginnings of the impulses of the signals.

2,157,678

REFRIGERATOR DOOR

Richard H. Schielke, Milwaukee, Wis.

Application April 11, 1938, Serial No. 201,359
4 Claims. (Cl. 20—23)



1. A refrigerator, a body having a door opening, a door for said opening, a supporting track extending longitudinally of the body, a guard track extending longitudinally of the body in spaced relation to the supporting track, a wheeled carrier including outwardly projecting arms having means at the opposite ends thereof for engaging the supporting track and the guard track, suspension straps rigidly secured to the door and slidably mounted on said arms, whereby said door can be bodily shifted on the brackets toward and away from the door opening, and manually operated means for bodily moving the door on the brackets toward and away from said door opening.

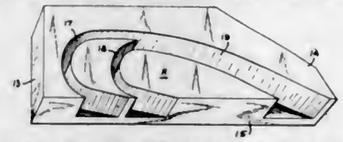
2,157,679

METHOD OF MAKING TURBINE ELEMENTS

Henry F. Schmidt, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 31, 1937, Serial No. 182,664
3 Claims. (Cl. 29—156.8)

1. A method of producing reversing chamber structures for fluid turbines comprising providing a flat blank having opposite faces and end and side edges, milling a curved channel in the blank and through one of its faces, the channel having its ends opening through one side edge



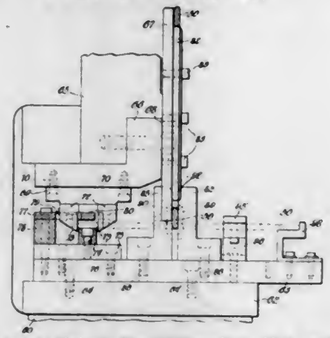
of the blank, bending the blank so that its faces are curved about the same axis, forming a cover for the curved channeled face, and attaching the cover to provide a structure having a reversing chamber formed by the channel and the cover.

2,157,680

WELD TRIMMING APPARATUS

George Spatta, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Original application November 23, 1936, Serial No. 112,247. Divided and this application September 3, 1937, Serial No. 162,297
8 Claims. (Cl. 90—43)



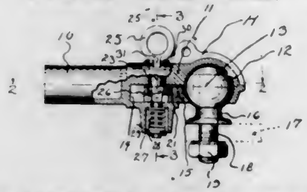
1. In a machine for trimming the weld between adjacent ends of a split ring, a frame, a power head reciprocatory with respect thereto, pilot means on said frame supporting said ring in horizontal position, a stripper plate on said frame overhanging the welded face of said ring, and shearing means on said head for trimming the weld on opposite edges of said ring, said stripper plate holding said ring in position as said head moves upwardly after a shearing operation.

2,157,681

TRAILER HITCH

Daniel H. Storey, Wausau, Wis.

Application November 25, 1938, Serial No. 242,207
2 Claims. (Cl. 280—33.15)



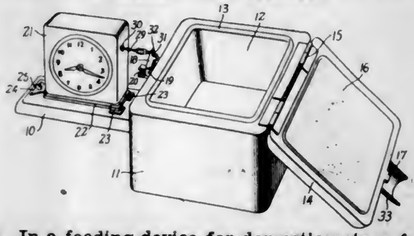
1. In a trailer hitch, a shank, a head carried by the forward end of the shank provided with a socket and a chamber communicating with the socket, a slide plate mounted within the chamber and movable into and out of the socket, said slide plate having a cavity and a slot communicating with the cavity, an operating rod rotatably and slidably mounted on the head having a squared portion formed thereon intermediate its ends normally mounted in the slot, an eccentric mounted on the squared portion of the rod fitted in said cavity for turning movement with the rod, spring means normally holding the rod in a lowered position, with a part of the squared portion of the rod in the slot, and a handle for turning and lifting the rod.

2,157,682

TIME CONTROLLED FEEDING DEVICE FOR DOMESTIC PETS

Raymond V. Sweeny, Freeport, N. Y.

Application January 21, 1938, Serial No. 186,024
3 Claims. (Cl. 119—63)



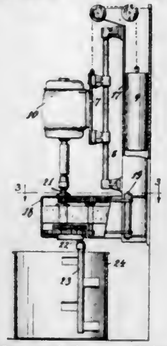
1. In a feeding device for domestic pets, a food container having an external bead at its upper edge, an open top casing upon the upper edge of which the bead is seated, a cover hinged to said casing, means for normally swinging said cover to an open position whereby the free edge portion contacts with the supporting surface upon which the casing rests, a keeper on said cover, and a pivoted latch on said casing engageable with said keeper to retain the cover in closed relation with the food container, said latch being adapted to be connected with time controlled means for releasing the same.

2,157,683

DEVICE FOR MIXING, SIFTING, AND KNEADING

Paul Vollrath, Cologne-Ehrenfeld, Germany

Application December 20, 1937, Serial No. 180,699
In Germany December 24, 1936
1 Claim. (Cl. 259—1)



In a device for mixing, sifting and kneading a given material, a support, a power drive for the tools for said operations disposed on said support above the trough containing the mate-

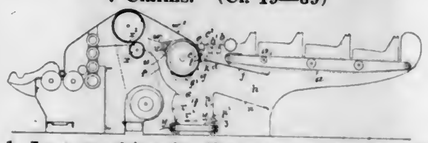
rial, said drive including a vertical driving shaft extending downwardly toward the trough, means for adjusting said drive on said support in a vertical direction at different heights within the operating range of the tools required by the trough, a coupling at the end of said shaft, arranged to attach different treating tools for the material to said shaft, and a reduction gear drive pivotally supported on said support laterally of said driving shaft and disposed to swing into position for coupling its power input shaft with said driving shaft coupling, said reduction gear having suitable means at its output shaft for coupling the desired operating tool with it.

2,157,684

APPARATUS FOR CLEANING AND OPENING COTTON OR LIKE FIBROUS MATERIAL

Thomas Clifford Williams and Sydney Alfred Shorter, Didsbury, Manchester, England, assignors to The British Cotton Industry Research Association, Didsbury, Manchester, England

Application October 4, 1937, Serial No. 167,158
In Great Britain October 22, 1936
7 Claims. (Cl. 19—89)



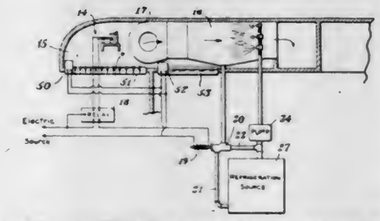
1. In a machine for the opening and cleaning of cotton and similar fibrous material, a casing having an air inlet duct, a feed mechanism positioned to carry material into the machine, said casing including a settling chamber having a rear wall, a toothed beater cylinder extending across the settling chamber in position to receive the material delivered by the feed mechanism, said duct having an upper boundary wall terminating forwardly adjacent said cylinder and below the feed mechanism, said upper boundary wall extending downwardly and rearwardly from its forward terminus, said vertical rear wall of the settling chamber being located rearwardly of the forward terminus of the upper boundary wall, said duct having a lower boundary wall extending rearwardly and downwardly from the upper edge of said rear wall, said settling chamber having an inwardly projecting cusp below the beater cylinder, a travelling lattice at the base of the settling chamber and means to drive said travelling lattice.

2,157,685

AIR CONDITIONING SYSTEM UTILIZING REFRIGERATION

Samuel M. Anderson, Sharon, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.

Application July 2, 1936, Serial No. 88,582
Renewed May 3, 1938
7 Claims. (Cl. 236—44)



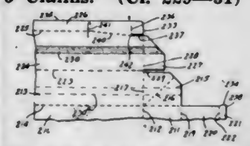
1. Air conditioning apparatus comprising a spray cooler, means for passing outside air through said cooler and for discharging it into the space to be conditioned, refrigerating means for cooling and supplying a fluid to said cooler, means for discontinuing the cooling of said fluid by said refrigerating means and for converting said apparatus for evaporative cooling, and means responsive to the dry bulb temperature and relative humidity of the outside air entering said cooler for actuating said last mentioned means when the wet bulb temperature of the outside air is below a predetermined temperature.

2,157,686

BOX STRUCTURE

Charles H. Ballard, Marion, Ind., assignor to Lindley Box & Paper Company, Marion, Ind., a corporation

Application December 28, 1936, Serial No. 117,867
6 Claims. (Cl. 229—31)



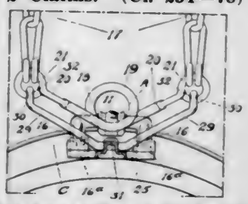
1. A corner construction for a knockdown single blank box having a body and adjacent double walls with a diagonally foldable corner integral with adjacent outer wall portions thereof and independent body overlapping flap extensions on adjacent inner walls, including in combination an interlocking connection between adjacent ends of adjacent flap extensions and constituting the sole locking arrangement between the walls for retaining the same in box formation, the junction between one flap extension and its supporting wall being slit a length at least equal to the width of the adjacent flap extension, and by the addition of a slit angular to the first mentioned slit and extending therefrom into the first mentioned flap extension.

2,157,687

SKID CHAIN APPLYING MECHANISM

George L. Briggs, Oneida, N. Y.

Original application July 30, 1936, Serial No. 93,359, now Patent 2,074,534, dated March 23, 1937. Divided and this application February 10, 1937, Serial No. 125,051
2 Claims. (Cl. 254—78)



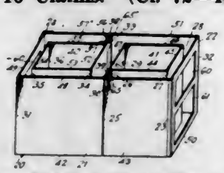
1. A device for applying, to automotive vehicle wheels having rims and resilient tires, a skid-preventing device comprising a plurality of skid chains connected at each end to eyes in the ends of yokes arranged to be engaged by hook devices carried by the rim, said applying device comprising a lever having one end forked, said forks being arranged to engage and take a fulcrum-bearing on one of said hook devices, within the plane of the outside face of the wheel, said applying device also comprising an upwardly swinging means journaled on the lever outside the fulcrum-bearing about an axis substantially parallel to the plane of the face of the wheel and provided with a plurality of hooks each arranged to engage the eyes in the respective yoke ends.

2,157,688

FORM FOR CONCRETE AND THE LIKE WALLS AND METHOD

S. Stanley Cascio, Brooklyn, N. Y.

Application May 23, 1936, Serial No. 81,355
16 Claims. (Cl. 72—48)



1. A collapsible non-metallic concrete form adapted to have concrete poured thereinto and to adhere permanently to the outer surface of said concrete and providing a furring surface backed by said concrete, said form having openings at selected points thereof, each of said openings being of sufficient size to permit the stone in the concrete to pass readily therethrough, said openings communicating with corresponding openings in a similar form arranged adjacent thereto and thereby permitting said concrete to flow into said similar form.

2,157,689

PESSARY

Percy L. Clark, Jr., Chicago, Ill.

Original application November 2, 1935, Serial No. 47,956, now Patent No. 2,103,319, dated December 28, 1937. Divided and this application May 24, 1937, Serial No. 144,436
4 Claims. (Cl. 128—127)



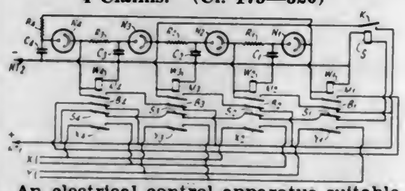
1. In combination, a flexible ring, an annular depending membrane, and a sack having a marginal flange joined to said membrane, said sack projecting into the space defined by the annular depending walls of the membrane.

2,157,690

CONTROL APPARATUS FOR RADIOBEACON SYSTEMS

Newsome Henry Clough, London, England, assignor to Radio Corporation of America, a corporation of Delaware

Application October 23, 1937, Serial No. 170,572
In Great Britain October 26, 1936
4 Claims. (Cl. 175—320)



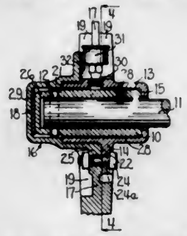
1. An electrical control apparatus suitable for use for the purpose specified comprising a plurality of condensers each having its own charging circuit, means including a glow discharge tube in series with a relay winding and in shunt with each condenser for enabling an appropriate condenser to charge to a predetermined voltage in a predetermined time, and means comprising contacts under control of each relay winding for exercising predetermined control functions, each said relay having at least two pairs of additional contacts, said additional contacts constituting holding and releasing circuit controlling means associated with the relay windings and with the glow tubes and so arranged that the respective relays and associated glow tubes are caused to be energized and de-energized in a predetermined sequence, one pair of said additional contacts being adapted to serve as holding contacts for its own relay and to de-ionize the glow tube associated therewith, and another pair of said additional contacts being adapted to release a previously energized one of said relays.

2,157,691

WHEEL

Wilbur J. Coultas and Norman F. Andrews, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application August 8, 1935, Serial No. 35,231
4 Claims. (Cl. 308—110)



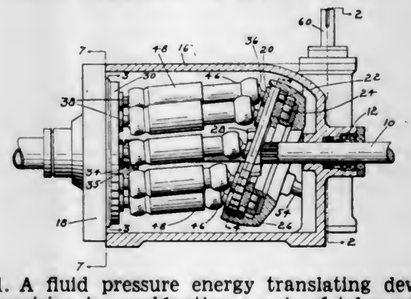
1. A wheel comprising a hollow hub section, a replaceable cylindrical bearing member adapted to be removably disposed within said hollow hub section, means detachably connecting the bearing member to said hub, a lubricant fitting carried by said bearing member for delivering lubricant into the interior thereof and removable therewith, and a recess formed in said hub exteriorly of said bearing member for accommodating said lubricant fitting.

2,157,692

POWER TRANSMISSION

Thomas B. Doe, New York, N. Y., and Edwin L. Rose, Waterbury, Conn., assignors to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut

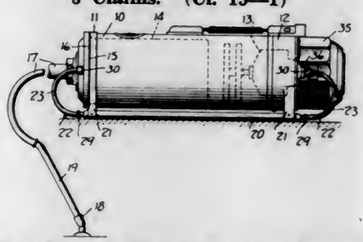
Application April 29, 1936, Serial No. 76,961
14 Claims. (Cl. 103—162)



1. A fluid pressure energy translating device comprising in combination a pair of telescoping

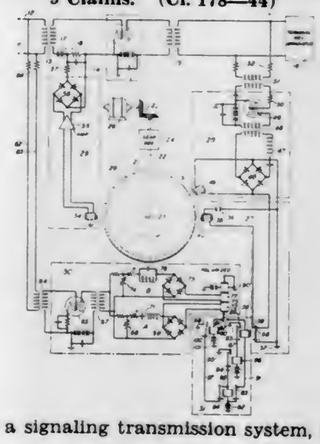
members forming a cylindrical expansible chamber, means forming a pivotal mounting for each of said members, each of said means including a member at least partly of circular cross section exposed to the fluid pressure within said chamber over a projected area substantially equal to the cross sectional area of said chamber, relatively rotatable members forming a driving member and a reaction member, and means for converting rotary motion of said driving member into relative reciprocation of said telescoping members, or vice versa.

2,157,693
VACUUM CLEANER
Carl Oskar Ernolf, St. Essingen, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application June 8, 1937, Serial No. 146,987
In Germany June 10, 1936
3 Claims. (Cl. 15—1)



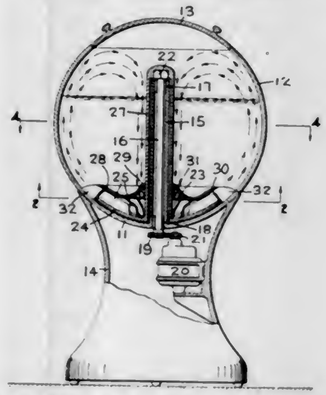
1. In a vacuum cleaner, a casing formed with an opening, a closure member for said opening, hollow tubular runners for supporting said casing on a surface, hook-shaped members axially movably and rotatably mounted in said hollow runners, said closure member having recesses engageable by said hook-shaped members, and springs disposed in said tubular runners and completely enclosed thereby for urging said hook-shaped members axially toward said closure member.

2,157,694
TRANSMISSION LEVEL CONTROL
Harold J. Fisher, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 27, 1937, Serial No. 171,397
9 Claims. (Cl. 178—44)



3. In a signaling transmission system, a signal line, a terminal receiving station, an adjustable loss apparatus in said station, and control means operated in response to a pulse of control current received at intervals over said line for adjusting said loss apparatus according to the energy level of the received pulse of control current, including a magnetizable element magnetized according to the energy level of the received pulse of control current and whose magnetization is utilized to produce a potential for actuating said loss apparatus during intervals when control current is being received and also during intervals when no control current is being received.

2,157,695
WASHING MACHINE
William Earle Fulton, York, Pa.
Application June 3, 1936, Serial No. 83,368
2 Claims. (Cl. 68—184)



1. In a washing machine, a tub having a curved top, a curved side wall and a curved bottom, a tubular standard extending upwardly from the center of the bottom of the tub, a drive shaft rotatably mounted in said standard, an impeller having a tubular stem surrounding said standard and supported from said shaft, means for rotating the shaft and the impeller supported therefrom, said impeller having a curved bottom portion corresponding in contour to the curved bottom of the tub and a plurality of blades extending upwardly from said bottom, and a protector plate overlying said impeller and having a central perforated portion, an intermediate non-perforated portion and a peripheral portion comprising a plurality of radially disposed ribs which project outwardly and downwardly from the protector plate and surround the impeller so as to constitute means for supporting said plate in spaced relation to said impeller and means for directing the liquid circulated in the tub by said impeller upwardly of the curved side wall of the tub.

2,157,696
MANUFACTURE OF FORMED BITUMINOUS BODIES
Harold W. Greider and Henri Marc, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
No Drawing. Original application April 14, 1933, Serial No. 666,126. Divided and this application November 19, 1934, Serial No. 753,646
4 Claims. (Cl. 18—47.5)

1. A process of manufacturing bituminous plank containing bituminous material, fiber, and filler which comprises mixing the fiber and a part of the filler with the bituminous material in a heated condition, until substantially complete coating is effected, then adding the remainder of the filler and mixing the mass only until the mass separates into balls separated by a dust-like coating of the incompletely coated last added filler, and then forcing the mass while plastic through an extrusion die by means of pressure, the coating of the last added filler being completed during the extrusion operation wherein the mass is forced to and through the extrusion die.

2,157,697
MANUFACTURE OF PLASTIC MASSES
Max Hagedorn, Dessau, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application May 23, 1936, Serial No. 81,505. In Germany May 25, 1935
8 Claims. (Cl. 260—36)

1. A process of plasticizing polyvinylchloride containing 64 to 65 per cent of chlorine which comprises incorporating therein the ester of benzoic acid with the alcohols containing a straight carbon chain of more than 8 carbon atoms from cocoanut oil acids.

2,157,698
ASPHALT EMULSIONS AND PROCESS OF MAKING SAME
Arthur Ludwick Halvorsen, Staten Island, N. Y.
No Drawing. Application December 27, 1934, Serial No. 759,371
20 Claims. (Cl. 134—1)

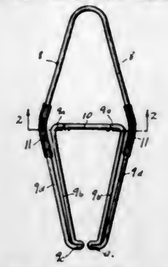
3. The process of making asphalt emulsions which comprises preparing an alkaline-reacting asphalt-water emulsion by the addition of a small quantity of alkali metal compound to provide a pH of not less than of the order of 9, then admixing with the emulsion so obtained a small quantity of weakly acidic non-precipitant substance to obtain an emulsion having a pH of substantially 7, and then further increasing the hydrogen ion concentration of said emulsion to between pH 7 and pH 3.5 by the addition of slightly stronger, weakly acidic, substantially non-precipitant substance, whereby a coalescent acid-reacting emulsion may be obtained without the presence of undesired precipitates.

2,157,699
ELECTROLYTIC METAL POWDERS
Charles Hardy, Pelham, and Charles L. Mantell, Manhasset, N. Y., assignors to Hardy Metallurgical Company, a corporation of Delaware
No Drawing. Application April 14, 1936, Serial No. 74,272
8 Claims. (Cl. 204—1)

1. The method of producing iron powder which comprises introducing iron-bearing material into an electrolytic cell comprising an anode, a zinc cathode and an aqueous electrolyte containing ferrous sulphate, incorporating in the electrolyte at least one soluble organic substance selected from the group consisting of sugar, glycerine and urea, and subjecting the iron-bearing material in the cell to an electrolytic operation at a relatively high current density.

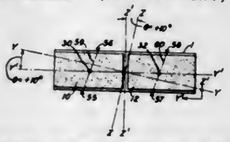
2,157,700
MITTEN MOP
William Hertzberg, New York, N. Y., assignor to Hertzberg Patents Inc., New York, N. Y., a corporation of New York
Application February 23, 1938, Serial No. 192,046
4 Claims. (Cl. 15—147)

1. A wire frame for a mitten mop consisting of an elongated wire member having separated free ends, another elongated wire member having separated free ends and flexible members connecting the free ends of said wire members



whereby said wire members may be collapsed upon themselves for insertion into a mitten mop body, one of said members having an offset portion for mounting the mop handle.

2,157,701
PIEZOELECTRIC APPARATUS
Stuart C. Hight, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 19, 1936, Serial No. 80,513
13 Claims. (Cl. 171—327)

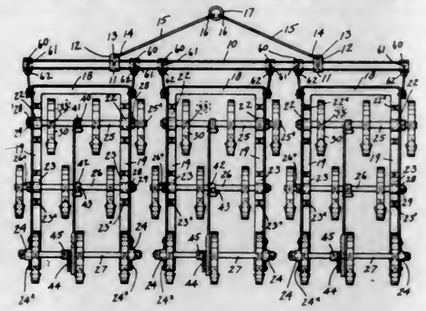


1. An elongated piezoelectric quartz crystal of substantially rectangular parallelepiped shape having opposite electrode surfaces and the longest axis thereof disposed substantially perpendicular to an X axis said longest axis being inclined substantially +10 degrees with respect to a Y axis thereof, and means comprising a plurality of pairs of opposite electrodes operatively disposed with respect to said crystal electrode surfaces and interconnections between said electrodes for operating said crystal at the second harmonic frequency of the mode of vibration thereof substantially in the direction of said longest axis, said crystal having selected dimensional ratios of width and of thickness with respect to said longest axis for mechanically coupling said harmonic mode of vibration to at least one other mode of vibration therein having positive temperature coefficient of frequency for obtaining zero temperature coefficient of frequency for said crystal, said dimensional ratios being between 0.2 and 0.3.

2,157,702
SPRING TOOTH HARROW
John I. Hoke, New Carlisle, Ind.
Application January 28, 1937, Serial No. 122,706
14 Claims. (Cl. 55—104)

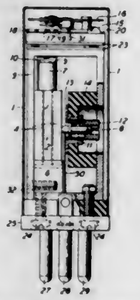
1. A spring tooth harrow structure including an elongated transverse towing member, means for towing same and a plurality of spring tooth harrow units, each including a rectangular open end sled type frame pivotally connected at each forward corner to the member for linear towing of the frame, a plurality of tooth supporting shafts pivotally supported by the frame, each of two of said shafts projecting laterally beyond the same, means connecting all of said shafts for

simultaneous tilting movement, means retaining the connecting means in selected position corresponding to the tilted position desired, and a plurality of harrow spring teeth rigid with each shaft, each shaft including a plurality of teeth between the runners of the frame and spaced



apart substantially equidistant, teeth on successive shafts being offset for tooth staggering, and a spring tooth on each projecting shaft end spaced from the next adjacent tooth on the shaft the same distance as between the other teeth thereon.

2,157,703
PIEZOELECTRIC APPARATUS
Ole M. Hovgaard, Orange, and Lawrence F. Koerner, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 20, 1935, Serial No. 11,958
9 Claims. (Cl. 171—327)



3. A piezo electric apparatus comprising a housing, a heat conductive chassis slidably removable from said housing, means for fixedly holding said chassis in said housing, a piezoelectric element mounted on said chassis and means mounted on said chassis comprising a thermostat having a bimetallic cupped disc and a heater controlled by said disc for maintaining said crystal above a predetermined temperature.

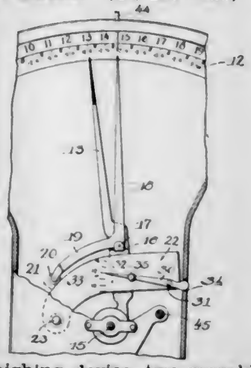
2,157,704
DEEP WELL PUMP
James Phillip Jackson, Oklahoma City, Okla.
Application October 9, 1935, Serial No. 44,192
12 Claims. (Cl. 121—164)

1. In a deep well pumping motor, a pair of adjacent cylinders, a piston in each of said cylinders, means connecting said pistons for simultaneous movement, means for supplying motivating fluid to said cylinders at one end of said pistons, valves for controlling the supply of motivating fluid to said cylinders, plungers actuated by said pistons for operating said valves, said plung-



ers having flutes cut therein to permit flow of liquid along the plungers.

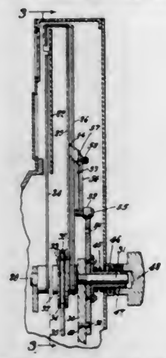
2,157,705
WEIGHING SCALE INDICATOR
W. Bartlett Jones, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application October 22, 1937, Serial No. 170,306
8 Claims. (Cl. 116—129)



5. In a weighing device, two movable indicating means, one of said means being connected to the weight responsive mechanism of the weighing device to indicate the weight, means connecting the two indicating means for motion together, and a cam operable upon said connecting means to predetermine a difference in registrations by the registration of one of them, said cam being designed to give the registrations a predetermined ratio.

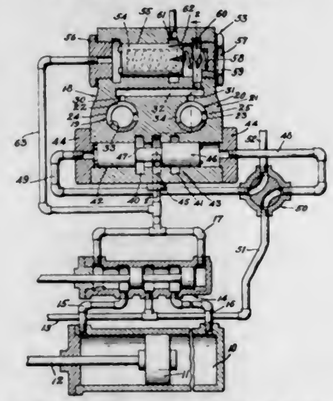
2,157,706
WEIGHING AND WEIGHT CHANGE INDICATING DEVICE
W. Bartlett Jones, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application March 21, 1938, Serial No. 197,057
17 Claims. (Cl. 116—129)

14. A weight-changing scale comprising three movable indicating elements registerable in the same range, two of them being operatively connected as a unit, means for causing the said connected elements to separate their registrations in said range according to a predetermined percentage difference in the original weight of an article and the weight of it as it is to be changed, one member of the group consisting of said unit and said third element being adapted for actuation by the weight of an article to register in said range, and the other member of said group being adapted for manual operation, whereby one



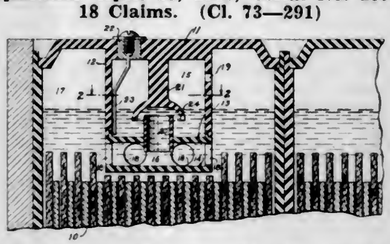
element of said unit and the said third element may be made to register together by a manual operation when there is such actuation by the original weight of an article the weight of which is to be changed, the manually operated member of the said group thereafter indicating a goal in the range for the weight-actuated member of said group in changing the weight of the article.

2,157,707
HYDRAULIC CONTROL VALVE
Adolf Keel, Highland Park, Mich., assignor to Ex-Cell-O Corporation, a corporation of Michigan
Application January 10, 1936, Serial No. 58,501
5 Claims. (Cl. 121—45)



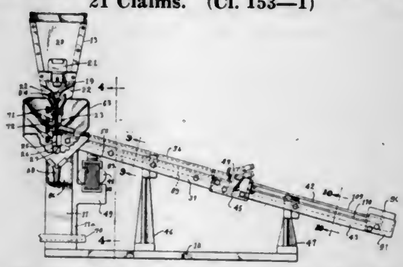
1. In combination with a line adapted to receive fluid expelled from a reciprocatory hydraulic motor for translating a machine element, two adjustable orifice valves, means for selectively connecting one or the other of said valves to said line to restrict the discharge of the fluid in accordance with the flow law of orifices, and means responsive to the pressure in said line at the inlet side of said orifice valves for automatically regulating the pressure at the discharge side of said valves to maintain a substantially constant pressure drop across said valves.

2,157,708
COMBINATION GAUGE SYSTEM
David F. Keith, Cleveland, Ohio
Application April 29, 1937, Serial No. 139,696
18 Claims. (Cl. 73—291)



1. In a system of the class described, a battery cell, a vessel, a contact member in said vessel, syphonic communicative means between said battery cell and said vessel whereby a connection may be established between said contact member and the liquid in said cell via liquid in said syphonic means, an indicating instrument, and conductive means by which said battery cell, said vessel, said syphonic communicating means and said indicating means are included in an electrical circuit.

2,157,709
HOPPER MACHINE FOR STACKING SLIDE FASTENER ELEMENTS
Max Kiessling and Max J. Kiessling, Waterbury, Conn.
Application August 20, 1935, Serial No. 37,012
21 Claims. (Cl. 153—1)



1. In an apparatus for stacking a plurality of slide fastener elements, a hopper having an inclined base, an inclined chute for receiving elements in succession from said hopper and arranging them in edge-to-edge alinement, an inclined raceway at the lower end of said chute and adapted to receive the elements therefrom in face-to-face alinement, a frame for supporting said hopper, chute, and raceway as a unitary structure, an electric vibratory unit attached to said frame, a vibrating plate extending upwardly from said vibratory unit and having a plunger rod at its upper end for rapidly striking against a portion of said apparatus, whereby the elements will be caused to gravitate down the inclined slopes of the several parts to a predetermined position.

6. In an apparatus for stacking a plurality of slide fastener elements, a hopper, an inclined chute for receiving said elements from said hopper and arranging them in edge-to-edge alinement, a pair of raceways adapted to receive said elements from said chute in face-to-face aline-

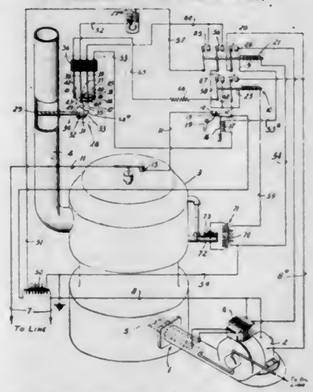
ment, each of said raceways having a longitudinal groove for receiving said elements, each raceway having a longitudinal upper slot narrower than said groove for permitting visual inspection of said elements from above, and a guide rail located in said groove for supporting said elements with their legs straddling the sides of said rail.

2,157,710

SYSTEM OF CONTROL FOR BURNERS

Harry E. Lake, Flushing, N. Y., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application December 7, 1935, Serial No. 53,334
9 Claims. (Cl. 158—28)



1. A control system for a fuel burner comprising, in combination, a motor for supplying fuel, an igniter, a first relay adapted when energized to maintain operation of said motor, a second relay adapted when energized to maintain operation of said igniter, a main control switch, a combustion responsive device having a first switch which is closed in the absence of combustion and opened substantially immediately upon the occurrence of combustion, a second switch which is closed in the presence of combustion and opened substantially immediately upon the cessation of combustion, and a third switch which is closed in the absence of combustion and opened after initial combustion following closure of said second switch, a circuit for effecting initial energization of said second relay including said control switch and said first combustion switch, a circuit for maintaining energization of said second relay including said third combustion switch and a switch which is closed when the second relay is energized, a circuit for effecting initial energization of said first relay independently of said control switch including said switch which is closed when said second relay is energized, and a circuit for maintaining energization of said first relay following the establishment of combustion including said control switch, said second combustion switch and a switch which is closed when said first relay is energized.

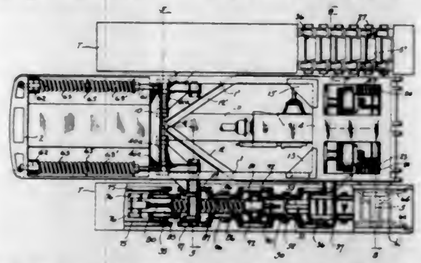
2,157,711

TRACTOR

Frank H. Lamb, Hoquiam, Wash.

Application May 11, 1935, Serial No. 20,954
3 Claims. (Cl. 180—9.1)

1. A tractor of the crawler type having a rigid main frame, traction belt mounting frames disposed longitudinally of and at opposite sides of the main frame, traction belts mounted for travel about the said frames, sprocket wheels mounted on the main frame in operative engagement with the traction belts for driving the latter, and separate spring suspension means for forward and rearward ends of each traction belt mounting frame; each of the four suspension means being independent in operation of the others,



and each comprises a bell crank pivotally mounted on the main frame and having pivotal connection with the adjacent end of the belt mounting frame to accommodate relative vertical movement of the latter, and springs mounted to act against the bell cranks to yieldingly sustain weight of the main frame through the bell crank connections with the track frames.

2,157,712

PROCESS OF PRODUCING RED CHROMIUM PIGMENTS

Ekbert Lederle, Ludwigshafen-on-the-Rhine, Germany, assignor to General Dyestuff Corporation, New York, N. Y., a corporation of New York

No Drawing. Application July 22, 1936, Serial No. 91,913. In Germany July 27, 1935
7 Claims. (Cl. 134—58)

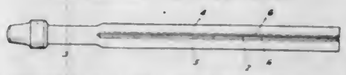
1. The process of producing red pigments by precipitating mixed crystals comprising normal lead chromate, normal lead sulphate and normal lead molybdate which comprises mixing an aqueous solution containing the necessary lead in the form of at least one soluble lead salt, at least 7 per cent of the lead being present as lead acetate, with an aqueous solution containing besides chromate and enough molybdate ions to produce mixed crystals containing at least 4 per cent of lead molybdate, sulphate ions in an excess of at least 10 per cent over the amount stoichiometrically corresponding to the composition of the desired product.

2,157,713

PROCESS OF MANUFACTURING SUCKER ROD COUPLINGS AND COUPLINGS SO MADE

Charles I. Leibensperger and Forest H. Thorpe, Columbus, Ohio, assignors to The Columbus Sucker Rod Company, Columbus, Ohio, a corporation of Ohio

Application June 1, 1937, Serial No. 145,696
7 Claims. (Cl. 29—148)



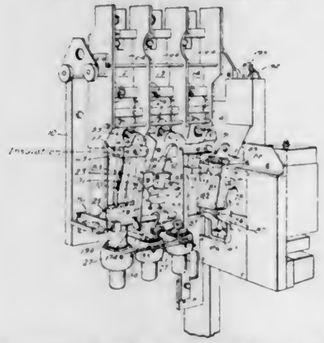
1. A process of the character described comprising laterally splitting for a part of its length a bar of metal by means of opposed blades extending the full length of the split to form two connected substantially closely parallel branches having fins extending substantially their full length, and simultaneously removing by compression the aforesaid fins from the inner end of said split toward the opposite end for an appreciable distance and forming with a wedge tip at said inner end of the split a straight crotch-line seat at right angles to the longitudinal axis of said bar and extending laterally completely through said bar in the direction of the aforesaid split.

2,157,714

CIRCUIT BREAKER

John B. MacNeill, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 20, 1937, Serial No. 126,898
15 Claims. (Cl. 200—50)



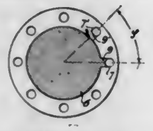
1. A circuit breaker comprising a fixed contact, a contact arm, a movable contact carried by said contact arm and adapted to be moved thereby into and out of contacting engagement with said fixed contact, a frame mounted for swinging movement about a fixed pivot, and operating mechanism supported upon said frame for operating said contact arm to open and closed positions, said operating mechanism including a toggle linkage movable to made and broken positions to respectively move said contact arm to closed and open positions, and latching means for releasably retaining the toggle linkage in the made position, releasable means for securing said frame in a fixed position to render said operating mechanism operative with respect to said contact arm, and movable means interlocked with said latching means for preventing the release of said securing means when the contact arm is in the closed position.

2,157,715

ELECTRICAL CONDENSER

Eduard Mayer Meggenhofen, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application May 25, 1936, Serial No. 81,657
In Germany May 25, 1935
6 Claims. (Cl. 175—41)



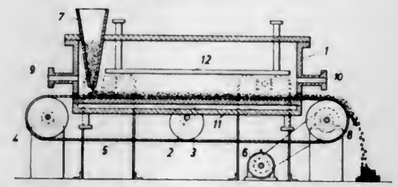
1. An electric condenser comprising a circular mounting plate having a plurality of threaded apertures on the same radius, a plurality of metallic bolts forming a cage-like structure secured by the threads in said apertures, a plurality of circular discs of ceramic material having a substantial portion of both flat faces metallized inside the area occupied by said apertures, the remaining area forming an uncoated rim, said discs being provided with openings through which said bolts pass, and a metallized strip electrically connecting at least one of said metallized faces and said bolts.

2,157,716

DRYING APPARATUS

Theodor Müller, Leverkusen-I. G. Werk, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application March 11, 1937, Serial No. 130,270
In Germany March 14, 1936
6 Claims. (Cl. 34—38)



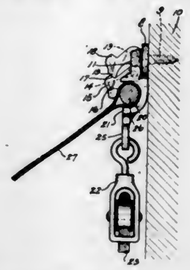
1. In a device for drying and cooling pastes and slurries the combination which comprises a trough, means for vibrating said trough to impart translatory movement to material contained in said trough from an inlet near one end of the trough to an outlet at the opposite end of said trough and means moving over the bottom of said trough to prevent cohesion and adhesion of the material under treatment in said trough.

2,157,717

HEAD ROD HOLDER

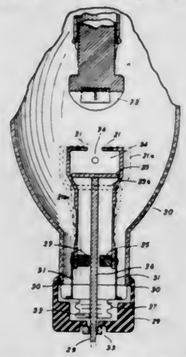
Jokum J. Munson, Milwaukee, Wis.

Application September 29, 1937, Serial No. 166,329
3 Claims. (Cl. 248—273)



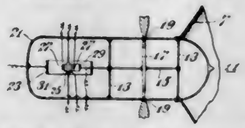
3. A rod mounting device, comprising a bracket having a transverse recess in its front portion, a curved latch pivotally carried by the bracket and swingable over the recess to turnably enclose an element disposed in the recess, said latch having its inner end formed with a cam extension, and a locking dog pivotally carried by the bracket and releasably engageable with the latch to secure it in retaining position, said dog having its inner end formed with a rearward extension engageable with the cam extension of the latch to automatically move said latch to releasing position when said dog is similarly moved.

2,157,718
X-RAY TUBE
Arthur Mutscheller, New York, N. Y.
Application February 26, 1935, Serial No. 8,234
4 Claims. (Cl. 250—145)



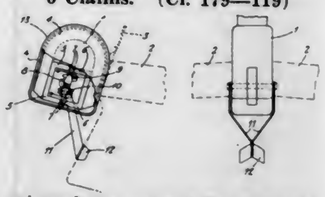
1. In an X-ray tube having an anode and a cathode mounted into an evacuated glass envelope, said cathode having a heated portion producing an electron emission depending on the absolute temperature and the effective area of emission from said heated portion, a metal housing surrounding said cathode and being adjustably variable in size and maintained at a definite potential with respect to said cathode to determine the effective area of emission of said heated portion, an adjustably variable opening in said housing directing an electronic discharge therethrough to fall upon said anode, said opening being smaller than the said effective area of emission as indicated by a small decrease of the size of said opening causing a decrease of the discharge current while the temperature of said heated portion of said cathode is maintained constant, and means for mechanically varying the size of said housing and said opening to control the discharge through said X-ray tube.

2,157,719
THERMIONIC MICROPHONE
Frank L. Pulaski, Sherwood, Oreg.
Application September 15, 1936, Serial No. 100,810
2 Claims. (Cl. 179—121)



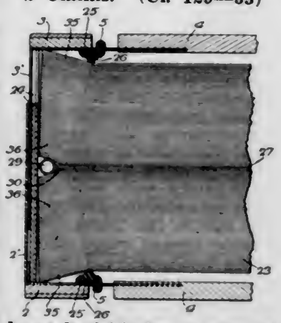
1. In a device of the character described, a diaphragm, a thermionic tube including envelope, anode and cathode electrodes mounted within and in fixed relation to said envelope, shielding electrodes flexibly mounted within said envelope, means for causing said anode and cathode electrodes to move in response to movements of said diaphragm, and means for restraining the movement of said shielding electrodes, said means including a magnet fixedly mounted external to said tube and having its lines of force passing through said tube in a region remote from said electrodes, an armature flexibly mounted within said envelope and located in the field of said magnet, and means operably connecting said armature and said shielding electrodes so that said magnet restrains the motion of said armature and of said shielding electrodes.

2,157,720
MICROPHONE
Edwin Severin, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 4, 1934, Serial No. 738,460
In Germany August 26, 1933
6 Claims. (Cl. 179—119)



1. A microphone especially adapted for the transmission of voice subjected to acoustical disturbances comprising a casing containing a permanent magnet and an electro-magnet located within the field of said permanent magnet, an armature arranged within said electro-magnet, said armature having a pivot within and passing through the walls of said casing to provide an oscillating part which acts as a pickup point, said pivot being secured to a pair of links connected with a fashioned piece which adapts itself to contact with the bone structure of the human body, said pair of links located on each side of said casing and joined together at a junction point adjacent said fashioned piece.

2,157,721
LOOSE LEAF BINDER
Paul O. Unger, Elmhurst, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application April 22, 1937, Serial No. 138,288
2 Claims. (Cl. 129—35)

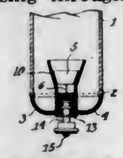


2. In a loose leaf binder, a pair of clamping plates, a channel member rigidly secured to the inner surface of each of said clamping plates, and a resilient member of approximately triangular cross section secured in each of said channel members and projecting above the edges of said channel members.

2,157,722
ELECTRIC DISCHARGE TUBE
Hubert Wendlik, Prague, Czechoslovakia, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 11, 1938, Serial No. 207,200
In Czechoslovakia May 18, 1937
4 Claims. (Cl. 176—50)

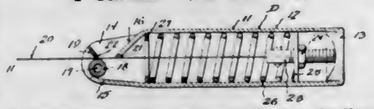
2. An electric discharge device comprising a

cup-shaped ceramic portion, an electrode within said cup-shaped ceramic portion, a connection to said electrode passing through and in contact



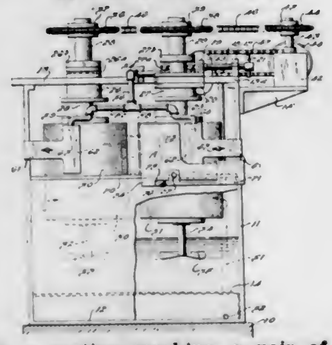
with the ceramic bottom of said cup-shaped ceramic portions, a lateral extension from said cup-shaped ceramic portion, and a container wall sealed to said lateral extension.

2,157,723
FORCE MEASURING DEVICE
Lewis E. Wilson, Milwaukee, Wis.
Application June 6, 1936, Serial No. 83,924
4 Claims. (Cl. 265—63)



1. A tensioning device including a hollow pull handle, a tension tape received in said handle having indications thereon, an article engaging member carried by the forward end of the tension tape, an expansion spring in said handle having one end engaging a stop therein, a pull rod connected to the inner end of the tension tape, an adjustable stop on the pull rod engaging the opposite end of the spring, and a guide for the tensioning tape carried by the forward end of the handle including a roller on which the tensioning tape rides and a guide bar above the roller and means at the forward end of the handle including the guide bar for facilitating the reading of the indications on the tensioning tape.

2,157,724
GLUE SPREADING MACHINE
Eugene C. Zablocki, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application October 7, 1937, Serial No. 167,781
14 Claims. (Cl. 91—39)



1. In a coating machine, a pair of upright rotary brushes between which the work to be coated is fed, a reservoir for containing coating liquid, said brushes being out of contact with the liquid in the reservoir, an agitator in said reservoir, and rotary means including a pump for projecting liquid from the reservoir onto a brush or brushes.

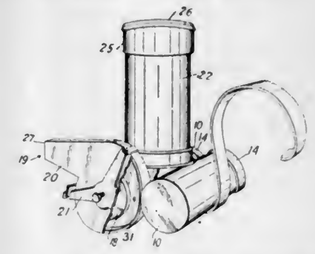
2,157,725
AZO DYESTUFFS
Werner Zerweck and Wilhelm Kunze, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 30, 1937, Serial No. 171,920. In Germany November 5, 1936
4 Claims. (Cl. 260—205)

1. Azo dyestuffs of the general formula:

$$NaOOC—alkyl—O_2S—aryl—N=N—R$$

wherein aryl means a radicle of the benzene series the azo group being attached thereto in one of the positions meta and para to the $—SO_2—$ group, and R means the radicle of a coupling component which contains no substituents causing solubility in water, which dyestuffs dye acetate artificial silk various shades of good fastness properties.

2,157,726
SPRAYER
George Zumft, New York, N. Y., assignor, by mesne assignments, to The Madison Products Company, New York, N. Y.
Application May 1, 1937, Serial No. 140,120
2 Claims. (Cl. 299—63)



1. In a sprayer of the class described, a pair of connected tubular containers forming a casing, two dry cells in one of said containers, and one dry cell and a motor in the other of said containers, a circuit in which said cells and the motor are located, caps on said tubular containers to close and open the circuit, a sprayer disc operated from said motor, a material tank on said casing, and connections between said tank and disc leading from the bottom of said tank through the inner wall of a housing for said disc attached to said casing and insulated therefrom, and a nozzle formed with said housing through which the spray from said disc is led to the atmosphere.

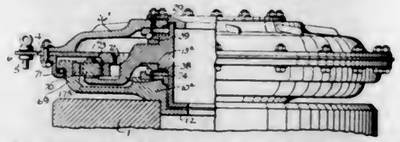
2,157,727
TREATMENT OF FABRICS TO PREVENT ROTTING
Ronald A. Baker, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 24, 1938, Serial No. 231,575
4 Claims. (Cl. 21—4)

1. The method of prolonging the life of fabrics composed of vegetable fibre which comprises: immersing said fabrics in an aqueous solution containing an ammonium naphthenate of a heavy metal selected from the group consisting of copper and zinc, and precipitating the heavy metal naphthenate on the fibre by drying the fabric after said immersion.

2,157,728
SPEED-UP AND SPEED-DOWN FOR ROTARIES

Richard R. Bloss, Beaumont, Tex., assignor to International Derrick & Equipment Company, a corporation

Application November 22, 1937, Serial No. 175,903
8 Claims. (Cl. 255—23)

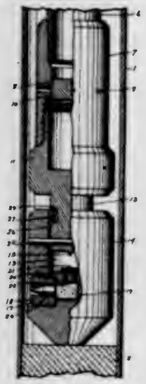


4. An annular drive plate, means to engage within a rotary table for rotation, a stationary housing associated with said plate forming therewith an annular chamber, a drive bushing centrally of said plate and housing, an outwardly extending support on said bushing in said chamber, a pinion on said support, and means on said drive plate engaging said pinion to communicate rotative movement to said bushing at a rate slower than that of said plate.

2,157,729
APPARATUS FOR BRINGING A WELL INTO PRODUCTION

Walter L. Church, Houston, Tex., assignor of one-half to James G. Gratehouse, Harris County, Tex.

Application May 17, 1937, Serial No. 143,040
3 Claims. (Cl. 166—1)



1. Apparatus of the character described comprising a gun body shaped to be lowered into a well, a projectile, explosive means effective, upon ignition, to eject the projectile, a tubular string for lowering the body into the well, means for connecting the body to the string permitting movement of the string relative to the body but preventing disconnection of the body from the string, means for igniting the charge upon such relative movement, said string having an inlet at its lower end and displaceable means normally closing the inlet against inflow of liquid whereby the string will be lowered empty into the well.

2,157,730
HASP FOR LUGGAGE LOCKS

John B. Freysinger, New Britain, Conn., assignor to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut

Application October 19, 1936, Serial No. 106,316
3 Claims. (Cl. 292—281)

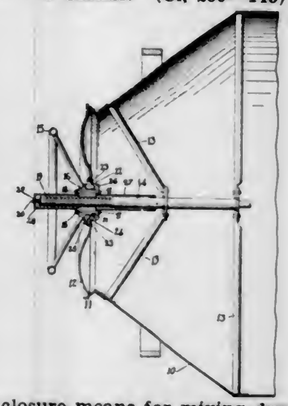
1. A hasp for locks comprising a hasp plate having a housing provided with a slot through a wall thereof, a hasp tongue having a reduced portion at one end pivotally received within and extending through said slot, said reduced portion having an opening therethrough, a spring within said housing and having a portion extending through the opening in said reduced portion for holding said plate and tongue in assembled relation and for normally urging said tongue to a predetermined position.



2,157,731
END CLOSURE FOR MIXING DRUMS

Francis O'Reilly, San Francisco, Calif., assignor to Transit Mixers, Inc., a corporation of Nevada

Application February 14, 1938, Serial No. 190,461
5 Claims. (Cl. 259—145)



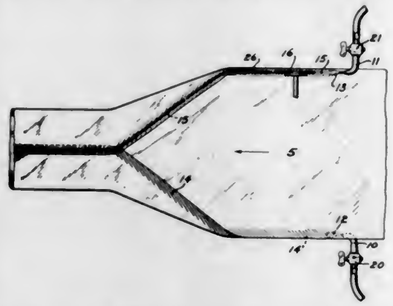
1. In closure means for mixing drums, a mixing drum having an end opening, a non-rotatable screw shaft extending through the end opening of the drum, a hand wheel having a hub screwably mounted on the shaft, a closure for the end opening of the drum, the said closure having an opening through which the hub extends, a ring-shaped member secured to the closure, the said ring-shaped member being loosely mounted on the hub, and means for normally preventing the detachment of the ring-shaped member from the hub.

2,157,732
METHOD OF JOINING SHEETS

Thomas E. Piazze, Milwaukee, Wis., assignor, by mesne assignments, to Marshall & Ilsley Bank, Milwaukee, Wis., a Wisconsin bank

Application December 10, 1936, Serial No. 115,079
2 Claims. (Cl. 154—42)

1. The method of continuously forming a tube from a web of thin wax coated paper sheet material for the subsequent manufacture of bags, which consists in feeding the web at high speed along a longitudinal path of travel, projecting a flame of high heat intensity and limited size against the side edges of the web and respectively on opposite surfaces thereof to melt the wax and produce a narrow molten wax area parallel with the side margins of and on opposite surfaces of the web, there being no wax removed from said area by reason of the high speed of the web travel, immediately thereafter applying a narrow strip of fluent adhesive to the advancing molten wax area at one edge portion of the web

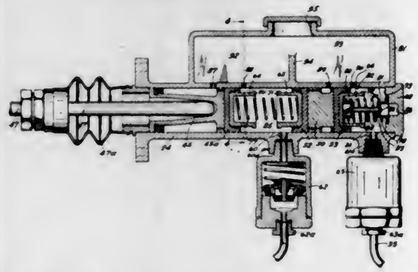


to cause the adhesive to mingle with the molten wax, overlapping said opposite marginal portions of the web to bring the molten wax area of one surface into direct engagement with the mixture of molten wax and adhesive on the opposite surface, pressing the overlapped surfaces into intimate contact with each other before the adhesive and wax have set to produce an adhesively secured and wax protected joint after the adhesive and wax have set.

2,157,733
BRAKE

William C. Sessions, Lakewood, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application February 7, 1935, Serial No. 5,434
18 Claims. (Cl. 60—54.5)

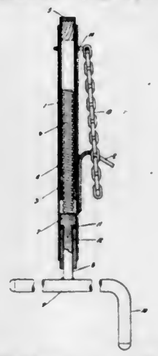


1. A fluid pressure braking system comprising in combination a plurality of brakes and wheel cylinders for actuating each of said brakes, means for supplying fluid under pressure to said wheel cylinders comprising a master cylinder comprising a plurality of chambers of uniform diameter, independent connections between said chambers and different wheel cylinders, manually controllable means for developing fluid pressures within said cylinder, and movable means separating said chambers for preventing the transmission of fluid between said chambers and for substantially equalizing the fluid pressures developed within said chambers, and means for limiting the movement of said movable means to a distance equal to substantially half the maximum normal movement of said manually controllable means.

2,157,734
HOIST

Ferdinand G. Welke, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application March 20, 1936, Serial No. 69,790
1 Claim. (Cl. 254—100)

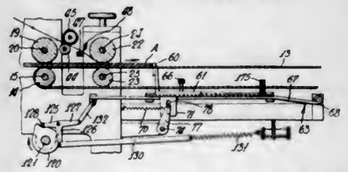


An automobile hoist comprising a jack screw, a tubular member mounted thereon said tubular member having a serrated contact surface at its upper end, a casing of rectangular cross section for said jack screw, a chain for attaching said casing to an axle of an automobile, one end link of said chain being adapted to pass over the upper end of said tubular member and to slide on said rectangular shaped casing, jaws mounted on the lower end of said casing adapted to receive the other end of said chain, and a crank arm mounted on the lower end of said jack screw substantially as described.

2,157,735
TAPING MACHINE

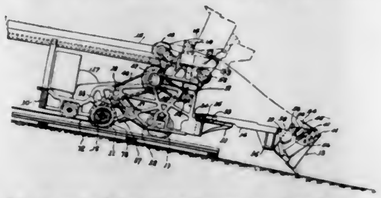
Frontice Harold Brite, Medford, Mass., assignor to Agar Manufacturing Corporation, Whippany, N. J., a corporation of New York

Application March 16, 1937, Serial No. 131,158
16 Claims. (Cl. 93—56)



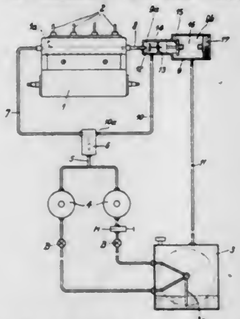
1. A machine for applying a tape to the abutting edges of a folded box blank between its end closure flaps, including means for advancing a box blank through the machine, a feed roll for advancing the end of a tape, means for adhesively applying the end of the tape to said blank, means permitting free rotation of said roll by the pull on the tape exerted by the moving blank, a cutter for said tape, a rotatable member, means for actuating first said roll and then said cutter during each revolution of said member, a target in the path of advancing movement of the blank, means for initiating rotation of said member upon movement of said target, and means for stopping rotation of said member after each rotation.

2,157,736
SHOVELING MACHINE
Robert R. Dooley and Clarence H. Brown, South Pasadena, Calif., assignors to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 30, 1936, Serial No. 103,242
14 Claims. (Cl. 214—90)



1. In a mucking machine, a track mounted main frame, a conveyer spaced above the bottom of said main frame and extending therealong, and means for gathering material and depositing it directly onto said conveyer comprising a beam mounted on said main frame for pivotal movement about a transverse horizontal axis and about a vertical axis, a scoop transversely pivoted on the end of said beam and adapted to be moved into the material it is desired to gather by movement of the machine along the rails, said scoop having a hinged side, which is its upper side when in a gathering position, which forms a drop bottom when in an elevated position for discharging material therethrough directly onto said conveyer, locking means for locking said bottom in closed relation with respect to said scoop including a spring pressed latch, a projection on said frame engaging said latch for releasing said locking means when said scoop is in a discharge position, and yieldable means for bringing said bottom to a normal position when said scoop is returning to a gathering position.

2,157,737
FUEL DELIVERY APPARATUS FOR INJECTION INTERNAL COMBUSTION ENGINES
Johann Friedrich Janssen, Stuttgart, Germany, assignor to Robert Bosch Gesellschaft mit beschränkter Haftung
Application July 21, 1937, Serial No. 154,874
In Germany July 15, 1936
3 Claims. (Cl. 123—139)



1. Fuel delivery apparatus for injection internal combustion engines, comprising, in combination, a fuel injection pump, a supply tank and a fuel delivery pump for pumping fuel from said supply tank to the inlet chamber of said injection pump, an air separator between the delivery pump and said inlet chamber, a pipe leading from the lower fuel-containing portion of the separator to the inlet chamber, an overflow conduit, connected with said inlet chamber and said supply tank, a weakly-loaded back pressure valve arranged in said overflow conduit, said valve opening in the direction of the overflow, an additional higher-loaded back-pressure valve arranged in the overflow conduit between said first-mentioned valve and the supply tank, and a connection between the upper part of said separator and that part of the overflow conduit situated between the two valves, the first weekly-loaded valve preventing the injection pump from sucking air into the inlet chamber out of the space between the two valves while the second valve is so loaded that the desired fuel pressure is maintained within the system under working conditions.

2,157,738
LAMP GUARD AND HANDLE
Francis C. Kollath, Chicago, Ill.
Application June 26, 1936, Serial No. 87,481
3 Claims. (Cl. 240—54)

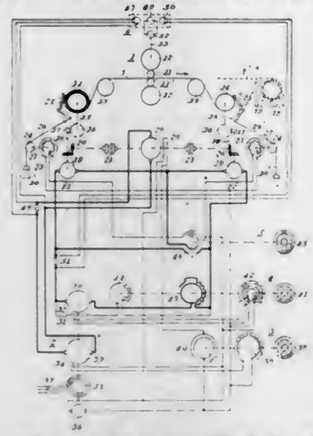


1. A combined lamp guard and handle comprising a handle portion made of soft, flexible rubber-like material and having a peripheral groove formed at one end, a lamp guard having its lower portion formed of two semi-circular parts adapted to be spread apart to receive a lamp globe and to receive and encircle the handle, said semicircular parts being receivable in the peripheral groove of the handle, and a collar about the handle and adapted to have engagement with the guard for fastening the guard to the handle, said semicircular parts of the guard being pressed into the flexible rubber handle when the collar is moved into engagement therewith and causing frictional engagement between the guard and handle and between the guard and collar, said guard and collar being provided with pin and slot connections.

2,157,739
ROLLING MILL CONTROL
William C. McBain, Youngstown, Ohio, assignor to The Cold Metal Process Company, Youngstown, Ohio, a corporation of Ohio
Application August 15, 1932, Serial No. 628,846
15 Claims. (Cl. 80—32)

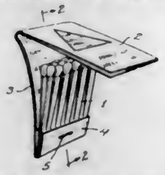
1. In an apparatus for rolling strip material, the combination with reducing rolls and winding and unwinding reels for passing material through the rolls, of a motor for driving the winding reel, and means for maintaining a substantially

constant predetermined tension in the strip between winding and unwinding reels, regardless of the speed or direction of travel of the strip, comprising a motor exerting a driving torque on said



winding reel, a generator exerting a restraining torque on said unwinding reel and a means for supplying constant current connected in series with said last mentioned motor and generator.

2,157,740
COMMERCIAL PACKAGE
Hollis J. Quinlan, East Cleveland, Ohio, assignor of one-half to Herbert Stratford, Cleveland, Ohio
Application July 24, 1936, Serial No. 92,405
3 Claims. (Cl. 206—29)

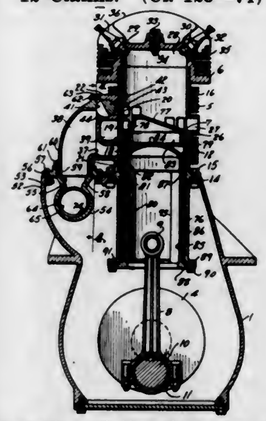


1. A commercial package comprising a strip of detachable merchandise, a cover for said merchandise formed of a postal reply card folded into a double form whereby a single fold is produced in the card and the width of the package is one-half of the open card, and one end of said form being extended around the base portion of the strip, a staple for securing the cover to the strip, and said folded cover having a series of perforations disposed in both thicknesses thereof and located above the staple to facilitate removal of the cover from the strip, without tearing the same so that it may be unfolded and be returned through the mails.

2,157,741
ALUMINUM ALLOYS
Edward A. Schmeller, Lakewood, Ohio, assignor of one-third to Frank I. Schmeller, Rocky River, Ohio, and one-third to John L. Schmeller, Lakewood, Ohio
No Drawing. Application February 4, 1939, Serial No. 254,687
3 Claims. (Cl. 75—140)

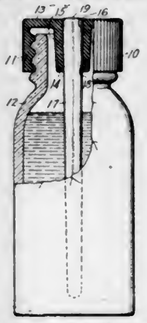
1. An alloy of aluminum for use without heat treatment consisting of about 1.75 per cent of copper, 1.50 per cent of tin, .20 per cent of titanium, .75 per cent of zinc, .90 per cent of magnesium, .25 per cent of chromium, the balance being aluminum.

2,157,742
INTERNAL COMBUSTION ENGINE
Leland L. Scott, Kansas City, Mo.
Application August 16, 1937, Serial No. 159,276
12 Claims. (Cl. 123—74)



1. In an engine of the character described, a combustion chamber having a series of inlet ports, a fixed piston, a movable piston in the combustion chamber having a skirt slidable over the fixed piston to form a compression chamber, said skirt having ports for establishing communication between the combustion chamber ports and the compression chamber, a by-pass member connecting selected ports in the combustion chamber, means for admitting an overvoluming medium into the by-pass member for discharge into the compression chamber and for discharge from the compression chamber into the by-pass member for flow into the combustion chamber through the selectively connected ports when said ports register with the ports in the skirt of the movable piston, and means for admitting a scavenging medium to the combustion chamber through the other of said ports in the combustion chamber.

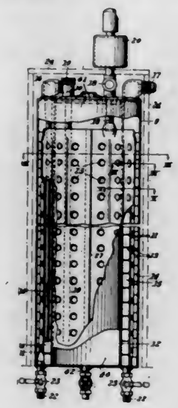
2,157,743
GLASS APPLICATOR CAP
George W. Temple, New York, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application November 4, 1938, Serial No. 238,755
7 Claims. (Cl. 91—67.4)



1. A molded cap provided with a top and with

a well depending from the top and adapted to receive an applicator rod, said cap having an opening therein extending completely through the well and the top, the wall surrounding the opening tapering downwardly and inwardly from the top.

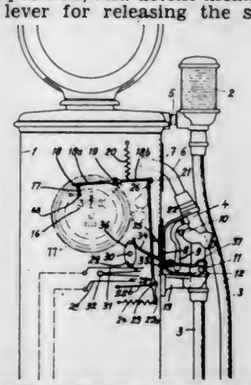
2,157,744
HEAT EXCHANGER
Frank Welty, Youngstown, Ohio
Application March 22, 1938, Serial No. 197,380
3 Claims. (Cl. 257—232)



1. In a dispensing and cooling apparatus for carbonated beverages, the combination of a beverage container comprising spaced metal plates welded to each other around the peripheries thereof, one of said plates having a plurality of inwardly extending bosses at spaced points along a plurality of substantially parallel lines and being secured to the other plate at said bosses and the other of said plates being creased along spaced parallel lines between said bosses to provide restricted areas through which the beverage is circulated, said metal plates being bent to form a cylindrical circulation chamber, a beverage inlet at one end of said chamber and a beverage outlet adjacent the other end of said chamber, whereby the beverage must pass completely through the container during its passage from the inlet to the outlet, a refrigerant circulation container extending around said beverage container, and means including an inlet and an outlet for circulating a refrigerant around and in contact with the beverage container.

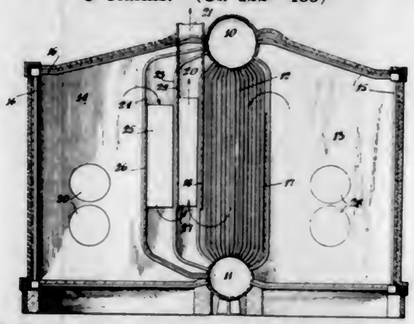
2,157,745
LIQUID DISPENSING APPARATUS
Hermann Wydler, Bern, Switzerland, assignor to the firm Sauser A.-G., Soleure, Switzerland, a joint-stock company of Switzerland
Application September 8, 1936, Serial No. 99,894
In Switzerland September 13, 1935
3 Claims. (Cl. 221—101)

1. In a liquid dispensing device adapted to be driven by an electric motor, a housing, a plurality of numeral drums visible through the housing and adapted to be rotated when liquid is dispensed, an arm moved to one position when one of the drums is rotated and to a second position when the numeral drums are in zero positions, a switch adapted for opening and closing a circuit to the motor, a lever and yieldable means associated therewith for urging said switch to a closed position, and detent means associated with said lever for releasing the same to the



action of said yieldable means when said arm is moved to the second position.

2,157,746
SUPERHEATER BOILER
Wilbur H. Armacost, New York, N. Y., assignor to The Superheater Company, New York, N. Y.
Application November 27, 1937, Serial No. 176,790
5 Claims. (Cl. 122—485)



3. In a water tube boiler having parallel upper and lower drums interconnected by generating tubes, and a furnace chamber located at one side of said drums; means defining another furnace chamber at the other side of said drums; an offtake for said other chamber; a superheater having its heat absorbing elements disposed in the path of gases from said other chamber; a row of tubes connected to said drums and having C-shaped portions offset toward said other chamber to embrace said superheater elements, parts of said tube portions being arranged to permit the flow of gases from said other chamber across said superheater to said offtake; and fuel feeding means individual to said chambers.

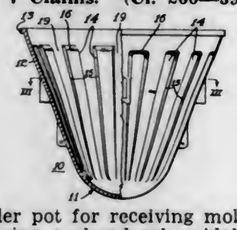
2,157,747
ARTIFICIAL ARM
Arthur F. Carmack, Clarksville, Iowa, assignor of one-half to William A. Hendry, Waterloo, Iowa
Application January 7, 1938, Serial No. 183,907
6 Claims. (Cl. 3—12)

1. In an artificial arm having upper and lower members, the lower part of the upper member having a plurality of pin-holes therearound, a swivel connection between said arm members rockable on the upper member with the lower member hingedly connected to the swivel, a pin rockably mounted on the swivel and also longitudinally movable thereon to enter and interlock with any of said pin-holes releasably, and resilient means connected between the pin and swivel,



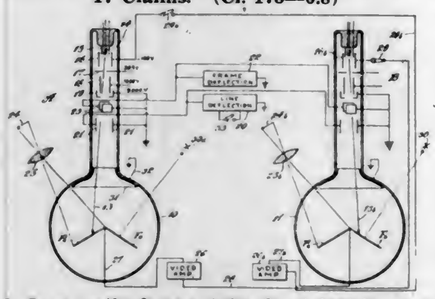
adapted to releasably lock the pin in a pin-hole of the upper member when the pin is rocked in one direction, and to be releasably held out of engagement with any pin-hole when the pin is withdrawn therefrom and rocked in an opposite direction.

2,157,748
CINDER POT
Archibald D. Davies, Pittsburgh, Pa.
Application January 25, 1939, Serial No. 252,768
7 Claims. (Cl. 266—39)



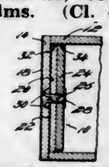
1. A cinder pot for receiving molten slag and the like having a closed spheroidal bottom and an upwardly and outwardly flaring side wall, the said side wall being of uniform thickness from top to bottom and being provided with a series of circumferentially spaced tapered substantially flat-bottomed channel-shaped sections provided with legs connecting adjacent sections together.

2,157,749
METHOD AND SYSTEM FOR TELEVISION COMMUNICATION
Allen B. Du Mont, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application January 11, 1938, Serial No. 184,407
17 Claims. (Cl. 178—6.8)



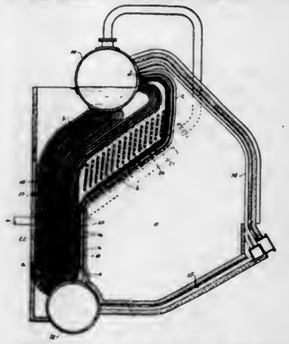
1. In a cathode-ray tube for television communication, screen structure characterized by the fact that at least part of the effective area thereof is photosensitive at closely spaced elemental areas to form a mosaic of the photosensitive material and at least part of the effective area of said screen structure is fluorescent, means for developing a ray of electrons directed at said structure, and means for deflecting said ray to cause the same to scan the photosensitive-fluorescent area directly.

2,157,750
CLOSURE DEVICE FOR A TUBULAR MEMBER ADAPTED FOR DISPLAYING ADVERTISING MATTER
John C. Dunn, Providence, R. I.
Application November 21, 1938, Serial No. 241,576
7 Claims. (Cl. 40—20)



1. An end closure device for displaying advertising matter on the end of a tubular spool member, comprising a cover for the tubular spool member end carrying said advertising matter, an outer disc member of substantially the internal periphery of said tubular spool member permanently secured to the inner surface of said cover, an inner disc member also of substantially the internal periphery of said tubular spool member and means to eccentrically mount said inner disc member on said outer disc member, whereby said disc members may be aligned for insertion within said tubular spool member end and on rotation of said cover said discs may be relatively eccentrically rotated by frictional contact of the periphery thereof with the inner periphery of said tubular spool member to relatively expand to grip opposite portions of the inner periphery of the tubular spool member to secure said closure device to said tubular spool member end.

2,157,751
MARINE BOILER
Horace T. Dyer, Coscob, Conn., and John A. Barnes, Chappaqua, N. Y., assignors to Combustion Engineering Company, Inc., New York, N. Y.
Application February 26, 1936, Serial No. 65,792
3 Claims. (Cl. 122—478)



1. In a vertical type water tube boiler; a combustion chamber; a steam and water drum positioned above said chamber at one side thereof; a water drum extending parallel to said steam and water drum along the lower part of said chamber at said side thereof; a tube bank connecting said drums comprising rows of circulating tubes having their lower portions extending substantially vertically in closely spaced parallel relation and connected into longitudinal rows of openings spaced circumferentially of the upper part of said water drum, a plurality of rows of tubes adjacent said combustion chamber having their intermediate portions inclined inwardly across the upper portion of said chamber and the

said intermediate portions of the tubes of several of said plurality of rows closest to said chamber being spaced substantially from the corresponding portions of the adjacent rows of tubes to provide a parallelogram-shaped space of substantially uniform height and width for a superheater within said bank; a superheater in said space having the heat absorbing elements thereof extending through said space along said rows of tubes and substantially filling said space; and baffle means arranged in said bank for directing the gases from said combustion chamber to flow over the heat absorbing elements of said superheater, in a downward direction along the rows of circulating tubes adjacent thereto and upwardly along the outer rows of circulating tubes.

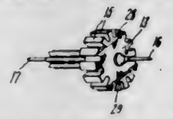
2,157,752

MOTOR LUBRICATING SYSTEM

Jacob Freistadter, Waltham, Mass., assignor to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts

Application August 6, 1936, Serial No. 94,595

7 Claims. (Cl. 172—36)



1. The combination with a supporting structure having a bearing and a rotor having a pivot portion contained rotatably in said bearing and being movable endwise therein, of an oil reservoir contiguous to the outer orifice of said bearing into which the extremity of said pivot is adapted to protrude, and means for giving to the rotor a back and forth axial reciprocation simultaneously with its rotation, such as to cause alternate advance of the pivot into and withdrawal from said reservoir, whereby to effect transfer of oil from the reservoir into and through the bearing.

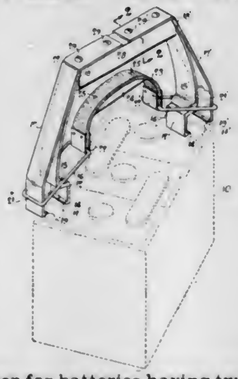
2,157,753

BATTERY CARRIER AND LIFTER

Jacob Plannie Gantt, Rock Hill, S. C.

Application January 4, 1939, Serial No. 249,235

3 Claims. (Cl. 294—99)



1. A carrier for batteries having two spaced terminals comprising a pair of members for engaging each terminal, a common bridge member to which the ends of the pairs of members are secured, a link pivoted to one of each pair of members and slidably engaging the other member, a strap having its ends secured to said links and being engageable by the hand of an operator in the act of lifting the battery to press said members together to grip the terminals of the battery.

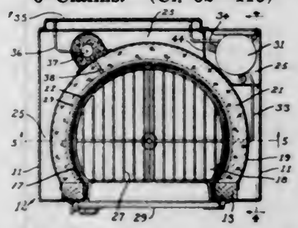
2,157,754

REFRIGERATING APPARATUS

Richard E. Gould, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 30, 1935, Serial No. 47,437

6 Claims. (Cl. 62—116)



1. A refrigerating apparatus comprising a cabinet formed of pairs of confronting flat walls, a refrigerating system associated with the cabinet and including a refrigerant circulating unit and a cooling element, and an insulated wall structure forming a cooling compartment within said cabinet and extending substantially from one wall of one of said pairs of walls to its confronting wall, said wall structure having a partly cylindrical portion which cooperates with the cabinet walls to provide a space between said portion and the adjacent parts of the cabinet, said refrigerant circulating unit being housed in said space, and said cooling element being connected to said refrigerant circulating unit and forming an interior liner for said wall structure.

2,157,755

FEED AND PROCESS OF PREPARING SAME

Chastain G. Harrel and Albert W. Lindert, Minneapolis, Minn., assignors to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware

No Drawing. Application June 23, 1937, Serial No. 149,914

9 Claims. (Cl. 99—2)

1. The process of preparing animal and poultry feeds which consists in adding a minute quantity of an oil soluble and water insoluble dye to a minute quantity of high vitamin concentrate to color the same, thereafter adding the colored high vitamin concentrate to a large mass of a dry feed and thereafter thoroughly mixing the colored high vitamin concentrate throughout the mass, the characteristic color of the dye indicating uniformity of distribution of the high vitamin concentrate throughout the mass and serving to identify by its characteristic color the feed so mixed.

2,157,756

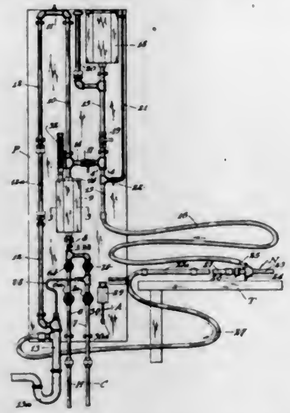
IRRIGATING APPARATUS

Milton Irwin, Minneapolis, Minn., assignor of one-half to Walter G. Berg, Minneapolis, Minn.

Application April 1, 1936, Serial No. 72,047

5 Claims. (Cl. 128—227)

3. An irrigator comprising a tank, an inlet pipe for the tank adapted to be connected to hot and cold faucets of a city or pressure water system, an outlet pipe rising from the top of the tank and provided with a branch which is vented, a second branch connected to said pipe intermediate the first named branch and the tank, a depending pipe connected to the first named branch and constituting a waste pipe, an elbow in the waste pipe adapted to be connected to a sewage system, a jet pipe adapted to be connected to the water system and entering the elbow to create a siphoning effect, a pipe connected to the second named branch pipe, a valve controlling the last named pipe, a tank for supplying a medicinal medium, an outlet for the last named tank, a valve controlling the last named outlet pipe, a common pipe connected to the said last named pipe and to the outlet pipe for the medicinal tank, a flexible hose connected to the common pipe, a nozzle for the hose having a reversely bent inlet connection with the hose, and a flexible conduit adapted to connect the nozzle with the sewage system whereby a suction action is created by the jet pipe in the nozzle outlet pipe.



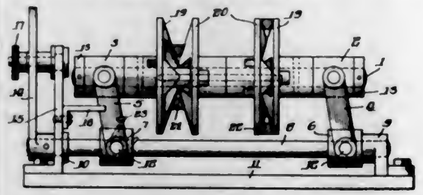
2,157,757

VARIABLE SPEED TRANSMISSION

Richard S. Jacobsen, Wheaton, Ill.

Application June 4, 1936, Serial No. 83,409

16 Claims. (Cl. 74—230.17)



1. In a variable speed power transmission, of the V-belt and pulley type, the combination of a rock shaft supported in fixed bearings and held against endwise displacement in said bearings, arms pivoted on said rock shaft, so that each arm is movable at one end about an axis at its other end, which axis is disposed at right angles to said rock shaft, axially aligned bearings to which the other ends of said arms are pivoted, a pulley shaft supported in said axially aligned bearings, means for rocking said rock shaft to move said pulley shaft laterally, and means for causing said pulley shaft to move endwise a distance, while moving laterally.

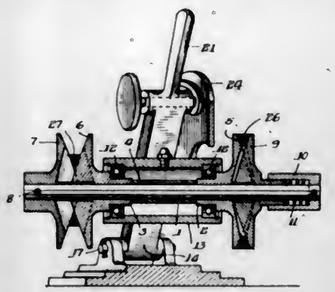
2,157,758

CHANGE SPEED TRANSMISSION

Richard S. Jacobsen, Wheaton, Ill.

Application May 20, 1937, Serial No. 143,713

5 Claims. (Cl. 74—230.17)



1. In a change speed power transmission, the combination of a base, a sleeve, axially spaced bearings secured in said sleeve, a shaft passing through and slidable relative to said bearings, a pair of relatively movable inside and outside pulley sections mounted on each end of said shaft forming a pair of expansible pulleys, one of said inside pulley sections of each pair of pulleys being secured to said bearings, the remaining pulley section of one pulley being secured to the shaft, means connecting the remaining pulley section of the other pulley for limited axial movement on said shaft, supporting links pivoted on said base and on said sleeve, providing a plurality of pivotal axes which are parallel with each other but which are oblique to the axis of said shaft, means including belts serving to expand one pulley while the other is contracted, controlling means for displacing said sleeve with respect to said base, whereby relative axial motion of said sleeve and said shaft is produced thereby contracting one pulley and expanding the other and producing a change of speed while said belts are maintained substantially in fixed parallel planes.

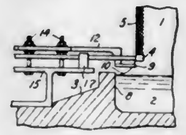
2,157,759

PROCESS FOR DRAWING GLASS STRIP

Andrew Jollie, St. Helens, England, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania

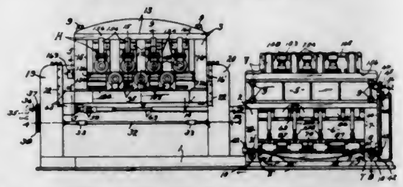
Application January 22, 1937, Serial No. 121,854. Renewed March 14, 1939. In Great Britain March 17, 1936

3 Claims. (Cl. 49—83.1)



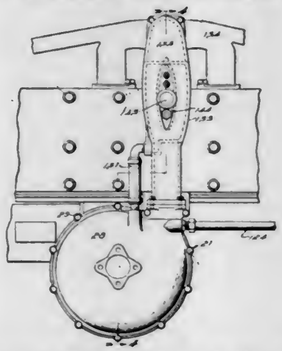
3. Process of drawing a continuous sheet of glass from a bath, consisting in rolling edge bands by rolls, forming at each edge portion of the sheet a meniscus of glass from the bath to the level of the rolls which is free with respect to its sides, and controlling the thickness of the portion of the sheet adjoining the rolled band by adjusting simultaneously the distance from the side walls of the bath of a member lying entirely above the bath engaging the extreme edge only of the glass rising to the rolls and of the rolls themselves.

2,157,760
STRAIGHTENING MACHINE
William E. Kane, Syracuse, N. Y., assignor to Kane & Roach, Inc., Syracuse, N. Y., a corporation of New York
Application April 29, 1937, Serial No. 139,760
22 Claims. (Cl. 153—54)



1. In a metal part straightening machine of the class having two series of straightening rolls arranged to operate in different substantially parallel planes to receive the work to be straightened therebetween, supporting means for said rolls including a frame, a plurality of bearing supporting housings, one housing for each roll, means securing the housings of one series of rolls to one side of the frame, separate means releasably securing the housing of the second series of rolls to the opposite side of the frame, means for adjusting said housings of said second series of rolls relative to each other in directions substantially parallel with said planes of operation of the rolls comprising a bar slidably mounted in said frame for movement in a plane substantially parallel with said first mentioned planes, means for actuating said bar, and means carried by the housings of said second series of rolls for releasably securing each of said housings to said bar independently of the remaining rolls of said latter series.

2,157,761
SUPERCHARGER FOR INTERNAL COMBUSTION MOTOR
Floyd F. Kishline, Detroit, Mich., assignor to Graham-Paige Motors Corporation, a corporation of Michigan
Application August 7, 1935, Serial No. 35,022
2 Claims. (Cl. 123—119)



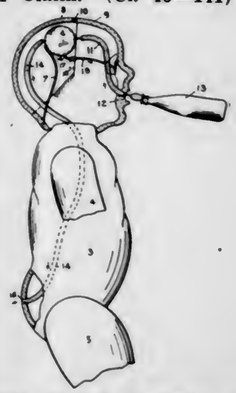
1. The combination of an internal combustion motor, having an intake manifold along one side thereof, a supercharger mounted at the opposite side thereof, a duct connecting and providing communication between said supercharger and intake manifold, a detachable cylinder head on said internal combustion motor, said duct being detachable, and said supercharger and intake manifold being located and arranged so that said cylinder head may be removed from said engine without removing said supercharger or intake manifold.

2,157,762
MACHINE TOOL
William R. Knox, Cleveland, Ohio, assignor to The Foote-Burt Company, Cleveland, Ohio, a corporation of Ohio
Application June 4, 1937, Serial No. 146,459
5 Claims. (Cl. 308—4)



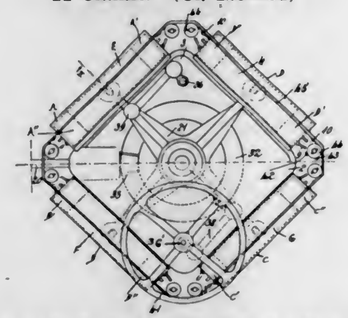
1. In a metal cutting machine, a main frame member, a tool carrier member reciprocably mounted on said frame member, a pair of guides carried by said frame member to guide said tool carrier member during its reciprocation, a pair of guides carried by said carrier member and coacting with the first-named guides respectively, three of said guides being fixedly secured to their respective members, and wherein the fourth guide is mounted in its member for free movement toward and away from the other guide of its respective pair of guides.

2,157,763
DOLL
Robert H. Konikoff, Astoria, and Maurice A. Konikoff, New York, N. Y., assignors to Konikoff Brothers, a partnership consisting of Harry Konikoff and Maurice A. Konikoff, New York, N. Y.
Application February 18, 1937, Serial No. 126,472
1 Claim. (Cl. 46—141)



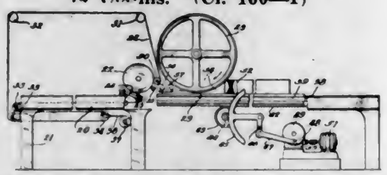
A doll of the class described comprising hollow head and body portions, the head having a mouth opening and eye openings and eyes positioned within such latter openings, the body portion having an opening adjacent to the lower end thereof, a fluid reservoir positioned within the head of the doll, such reservoir having openings in the front and rear vertical walls thereof and another opening in the lower wall thereof, a fluid conduit connecting the opening in the front vertical wall with the mouth of the doll whereby liquid introduced into the mouth while the doll is in a horizontal position will pass into the reservoir, a second fluid conduit leading from the rear opening to the opening at the lower end of the body whereby liquid so introduced into the reservoir will pass out of such latter opening while the doll is yet in such horizontal position, and a third fluid conduit leading from the lower reservoir opening into the eye openings in the head, whereby fluid remaining in the reservoir will pass out through such eye opening when the doll is in a substantially upright position, but not through such other openings.

2,157,764
INTERNAL COMBUSTION ENGINE
Georges Raymond Langrognet, Orleans-Loiret, France
Application August 8, 1936, Serial No. 94,901
In France August 10, 1935
11 Claims. (Cl. 123—54)



7. An internal combustion engine comprising a shaft, an even number of cylinders symmetrically arranged in a common plane, said plane being at right angles to said shaft, a reciprocating piston in each cylinder, an oscillatable member having arms operatively associated with said pistons, mounted on said shaft, a power take-off shaft, power transmitting means comprising two rotatable elements coaxial with said oscillatable member, interposed between said member and said power take-off shaft, operatively associated with said power take-off shaft, a unidirectionally operative clutch device interposed between said oscillatable member and each rotatable element, adapted to transmit movement from the former to the latter, said clutch devices being operative in directions opposite one to the other, and means for adjusting the range of oscillation of said oscillatable member and pistons, said means comprising a crank pin rotatable about a fixed center, means for adjusting the distance between said crank pin and said fixed center, and a connecting rod extending between said crank pin and said oscillatable member.

2,157,765
METHOD OF BALING
Clarence W. Lanter, Chicago, Ill.
Application July 8, 1931, Serial No. 549,399
Renewed November 23, 1936
14 Claims. (Cl. 100—1)



1. The method of packaging a mattress or the like, comprising compressing the mattress and wrapping it spirally on a drum, positioning an external container for slidably engaging the exterior of a bale on the drum, applying said container to said bale and sliding the baled mattress axially out of said container and off said drum into a complementary container, into which the baled mattress expands.

2,157,766
BASIC LEAD NAPHTHENATE
Kenneth E. Long, South Euclid, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application October 30, 1933, Serial No. 695,955
1 Claim. (Cl. 260—435)

A lead salt product of napthenic acid containing combined lead to the extent of more than one combining equivalent weight of lead to each combining equivalent weight of acid but not substantially over such proportion as involved in a ratio of about 71 parts of PbO to 100 parts of naphthenic acid of acid value about 250, and being thereby basic but below maximum possible basicity.

2,157,767
BASIC METAL SALTS AND PROCESS OF MAKING
Kenneth E. Long, South Euclid, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Application April 14, 1934, Serial No. 720,658
10 Claims. (Cl. 260—439)

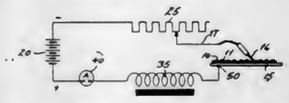
8. A basic salt consisting of more than a normal combining equivalent of cobalt with naphthenic acid.

2,157,768
PRODUCTION OF METALLIC DRIERS
Kenneth E. Long, South Euclid, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Original application November 10, 1933, Serial No. 697,472. Divided and this application December 18, 1937, Serial No. 180,656
8 Claims. (Cl. 134—57)

1. A process of making driers, which comprises lessening the basicity of basic lead naphthenate by reacting thereon with a non-basic drier salt of the class consisting of cobalt naphthenate, manganese naphthenate and lead resinate, the resulting product being basic but of lesser basicity than the said basic lead naphthenate before modification.

5. A lead drier composition comprising basic lead naphthenate modified by a non-basic drier salt of the class consisting of cobalt naphthenate, manganese naphthenate and lead resinate, the resulting product being basic but of lesser basicity than the said basic lead naphthenate before modification.

2,157,769
METHOD AND APPARATUS FOR WELDING
Antonio Longoria, Lakewood, Ohio, assignor to Niagara Wire Weaving Company, Ltd., Niagara Falls, Ontario, Canada, a corporation of Ontario, Canada
Application November 19, 1937, Serial No. 175,432
6 Claims. (Cl. 219—8)



4. An electric welding apparatus comprising a source of current supply having positive and negative terminals, two non-consuming current carrying members adapted for conducting current through the work to be welded, means for connecting one of the members to one of said

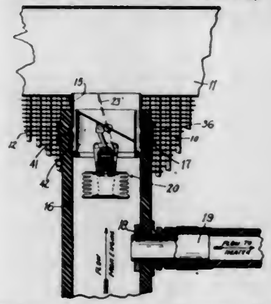
terminals, means for connecting the other member to the other of said terminals, one of said means including a low resistance, high inductance coil and the other of said means including a non-inductive rheostat.

2,157,770

THERMOSTAT AND METHOD OF MOUNTING THE SAME

Edward Levy Mayo, Cleveland, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application May 28, 1936, Serial No. 82,235
1 Claim. (Cl. 236—34)



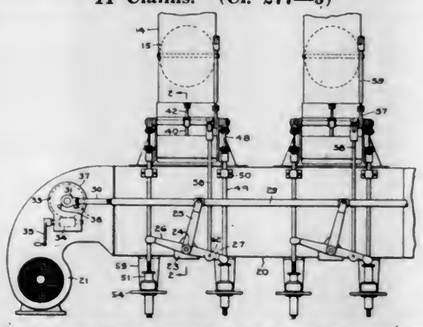
The combination with a thermostatically controlled valve adapted to be disposed within relatively telescoping cooperating conduit parts of a fluid circulatory system, the valve including a generally tubular element forming a valve seat, of an annular generally axially extending flange secured to the tubular element by radially inwardly extending portions, the flange being slotted at spaced circumferential portions permitting the flange to be forced over the smaller of the conduit parts to constrictingly engage the same, the flange also being provided with radially extending shoulder portions adapted to abut portions of the smaller conduit part to maintain the valve against relative axial movement when the smaller conduit part and the flange are projected within the larger conduit part.

2,157,771

REVERSING APPARATUS FOR FURNACES

Gustav A. Merkt, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts

Application February 8, 1937, Serial No. 124,781
11 Claims. (Cl. 277—5)



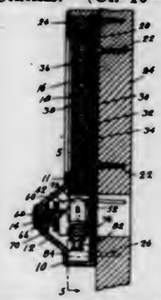
1. A reversing apparatus for a furnace comprising an air control device biased to move in one direction, a pair of stops each movable between an operative position and an inoperative position, and means connected to the stops and serving to move one stop to its inoperative position when the other stop is moved to its operative position and vice versa, each stop when in its operative position serving to limit the movement of the air control device under its bias.

2,157,772

COMBINED PUSH BUTTON AND ILLUMINATED HOUSE NUMBER DEVICE

John H. McCann and Frank H. Seaburg, Waltham, Mass.

Application March 15, 1938, Serial No. 195,984
12 Claims. (Cl. 40—130)



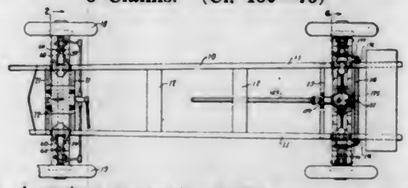
12. In a combined push button and illuminated sign, an electric light for illuminating the sign, and push button contact members having a space between them in which said electric light is adapted to be located, and light holding means in said space constituting also terminal contact members for said electric light.

2,157,773

VEHICLE CONSTRUCTION

Karl K. Probst, Toledo, Ohio

Application April 16, 1934, Serial No. 720,755
8 Claims. (Cl. 180—73)



1. A spring suspension for automotive vehicles comprising in combination, a vehicle frame; a differential housing enclosing power transmission mechanism; curved extensions carried by said housing; a yieldable mounting between said differential housing and said frame; a spring secured to said housing and adapted to contact with said curved extensions to change the effective support of said spring; a wheel supporting member connected to said spring; a vehicle wheel journalled on said supporting member; and means associated with said wheel supporting member and said frame whereby the vehicle wheel is maintained substantially vertical during flexures of said spring.

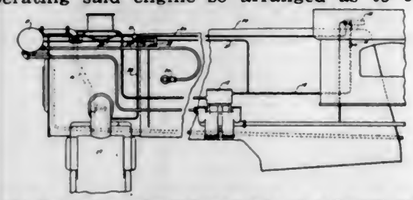
2,157,774

VALVE FOR FEED WATER HEATERS

Emanuel Rawson, Chicago, Ill., assignor to The Superheater Company, New York, N. Y.

Application December 4, 1937, Serial No. 178,053
7 Claims. (Cl. 122—441)

1. In a boiler feed water system having a heater normally supplied with exhaust steam from an engine deriving steam from the boiler, a pump supplying water to the boiler through said heater, a throttle controlled steam line from the boiler to said pump, piping connecting the boiler to said heater for supplying live steam thereto, and a control valve in said piping; means for closing said control valve; a piston cylinder associated with said valve; a pipe connecting said pump steam line and said cylinder; a pilot valve in said pipe; means responsive to the pressure of steam operating said engine so arranged as to close



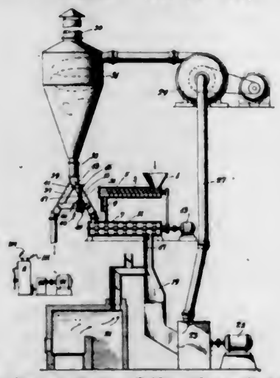
said pilot valve when the supply of exhaust steam is adequate to heat the feed water in said heater; means acting on said pilot valve so as to open it for admitting steam to said pipe and cylinder when the supply of exhaust steam is inadequate to heat the feed water in said heater; and a piston in said cylinder responsive to the pressure of steam operating said pump and adapted to open said control valve when said pump is operating while said pilot valve is open due to inadequacy of the supply of exhaust steam to heat the feed water in said heater.

2,157,775

DRYING APPARATUS

Alfred R. Smith, Forest Hills, N. Y., assignor to Combustion Engineering Company, Inc., New York, N. Y.

Application August 4, 1936, Serial No. 94,183
1 Claim. (Cl. 34—34)



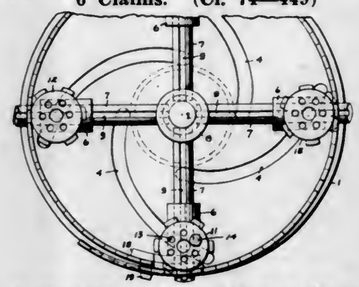
In a drying system of the class described having a mixer wherein a portion of the dried material is mixed with raw wet material, the remainder being discharged from the system, the combination of a conduit for the dried material, a second conduit connected to receive dried material from the first conduit and to deliver it to the mixer, a third conduit connected to receive dried material from the first conduit and to deliver it to a point outside of the system, and a damper adapted and arranged to alternately open each of the two last named conduits for delivery from said first conduit while at the same time shutting off the other one against delivery to it, means to place the damper alternately into its two positions for predetermined periods of time thereby effecting a predetermined distribution of material between the second and third conduits, and means to vary the length of the periods of time the damper is in one position relatively to the length of the periods it is in the other position thereby to adjust the amount of dried material returned to be mixed with the incoming raw wet material.

2,157,776

VARIABLE GEAR

Albert Louis Steinkamp, Fort Wayne, Ind.

Application July 6, 1937, Serial No. 152,046
6 Claims. (Cl. 74—449)



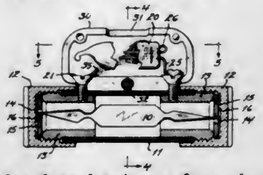
1. A variable gear comprising a flexible gear-engaging member having its opposite ends overlapped, a shaft, and radially adjustable members supported on the shaft and having toothed engagement with the flexible member for holding the flexible member in any position relatively to the shaft.

2,157,777

RESISTOR

Lester L. Stoffel, Lakewood, Ohio, assignor to Ohio Carbon Company, Cleveland, Ohio, a corporation of Ohio

Application April 8, 1937, Serial No. 135,759
1 Claim. (Cl. 201—63)



In a cartridge fuse having a fuse element and current conducting caps electrically connected to the element, a lamp housing associated with the fuse, a lamp within the housing and having leads extending therefrom, means for electrically connecting the leads to the respective caps, a strip of resistive material attached to the inner wall of the housing, one of the leads having the end portion thereof formed in the shape of a spring and bearing against the lamp and said resistive material, so as substantially to hold the lamp against movement within the housing and to make an electrical contact with the resistive material, means for connecting the other lead to one of the caps, and means for connecting the resistive material to the other of said caps.

2,157,778

DISPENSING DEVICE

Emma Elisa Tourot, Paris, France

Application March 7, 1936, Serial No. 67,708
In France March 12, 1935
3 Claims. (Cl. 221—94)

1. A reservoir-fed liquid distributor for brooms, brushes, dish-cloths and like appliances, comprising a tube shaped to form the handle of the appliance and adapted to act as a reservoir for the

liquid to be distributed, said tube being open at its ends, a valve positioned at the lower extremity of said tube to control the emission of the liquid from said reservoir, means for yieldingly holding said valve in its closed position, a removable cap adapted to engage the upper extremity of said tube to close the latter, said cap having an aperture therein, and a valve control formed of a one-piece member of inverted U-shape having one



limb extending downwardly through said aperture in said closure cap for connection to said valve while the other limb of said U-shaped member extends downwardly along the outside of said handle and terminates intermediate the length thereof to provide a handle for said U-shaped member which is slidable in its longitudinal direction to move said valve to open or closed position.

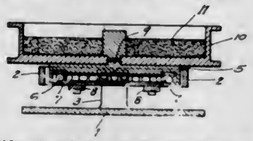
2,157,779

METHOD OF MANUFACTURING GRINDING WHEELS OF ABRASIVE MATERIAL

George E. Vance, Springfield, Ohio, assignor to The Safety Grinding Wheel & Machine Company, Springfield, Ohio, a corporation of Ohio

Application January 28, 1936, Serial No. 61,212

2 Claims. (Cl. 51—278)



1. The method of manufacturing a grinding wheel of abrasive material consisting in placing the green abrasive material in a balanced tiltable mold, rotating the mold to determine the heavy and light sides thereof if any exist, then removing abrasive material from the heavy portion of the mold to a lighter portion to balance the mold and material, then pressing the material in the mold, and thereafter baking the material.

2,157,780

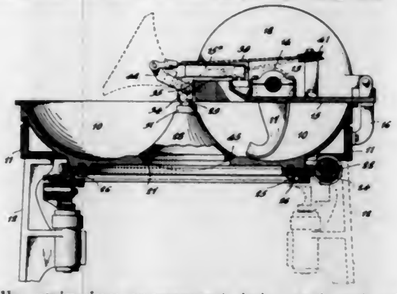
MEAT CUTTING MACHINE

Adrian C. Van Hooydonk, Buffalo, N. Y., assignor to John E. Smith's Sons Company, Buffalo, N. Y., a corporation of New York

Application September 11, 1937, Serial No. 163,417

9 Claims. (Cl. 146—67)

1. In a food cutting machine, the combination of a rotary bowl having a central discharge opening for the food, and a pendant closure for such opening fulcrumed centrally over the bowl in axial relation to its discharge opening for ver-



tically swinging movement into and out of its closed position.

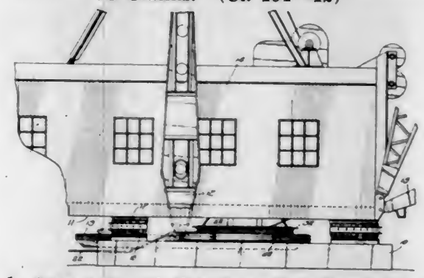
2,157,781

CABLE REEL

Merwin Armstrong, Hinsdale, Ill., assignor to Page Engineering Company, Chicago, Ill., a corporation of Illinois

Application April 11, 1938, Serial No. 201,395

15 Claims. (Cl. 191—12)



1. Apparatus of the character described, including: a movable base; a machinery supporting platform rotatably mounted on the base of a circular track, and spaced from the base; and an electric cable take-up reel between the base and platform and inside of the track, the axis (extended) of the reel coinciding with the axis of rotation of the platform.

2,157,782

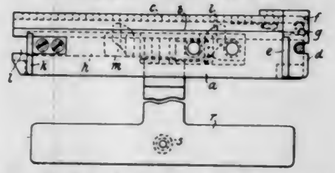
HAND COMPOSITION OF MATRICES FOR TYPOGRAPHICAL SLUG-CASTING MACHINES

John Ernest Billington, deceased, late of Crewe, England, by Mary Ellen Billington, executrix, Crewe, England, and Richard Henry Scott, Enfield, England, assignors to Linotype and Machinery Limited, London, England, a British company

Application August 6, 1937, Serial No. 157,756

In Great Britain August 14, 1936

13 Claims. (Cl. 199—49)



1. A hand-stick for composing a matrix line to be transferred to a typographical slug casting ma-

chine comprising an immovable base for receiving the matrices and spacebands and a relatively movable member extending therefrom to form a support for the spacebands, said support being of substantially the same longitudinal dimensions as said base and located in substantially coplanar relation therewith.

2,157,783

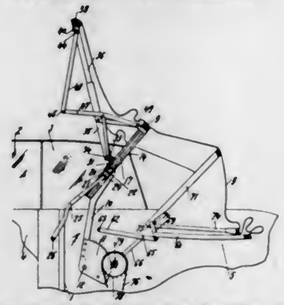
FOLDING HOOD FOR AUTOMOBILE VEHICLES OR THE LIKE

Maurice Bessonneau, Puteaux, France

Application November 16, 1938, Serial No. 240,846

In France November 20, 1937

14 Claims. (Cl. 296—116)



1. In the combination of a folding hood with a vehicle body, a body provided on each side with at least one window, a front supporting hoop each arm of which is mounted on a side of said body for rotation between a rest position in which the intermediate part of said hoop is at the rear of the body and a working position in which said arm is at the fore of the rear end of said window and thus forms an intermediate upright, a front frame including on either side of the body a guiding bar and a further bar in line with said guiding bar and in sliding engagement therewith, a linkage between said bars and said supporting hoop for holding said bars and controlling said latter between the horizontal position in which said bars are above said window and a folded up position, connecting means between the rear end of said guiding bar and said arm adapted to allow said guiding bar to be displaced between a working position in which it is above said window and a further position in which it is laterally displaced to allow the folding of the hood without being hindered by said window.

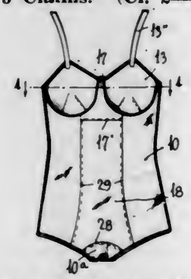
2,157,784

GARMENT

Jacob Cohen, New York, N. Y., assignor of fifty per cent to Adolph Mosen, New York, N. Y.

Application June 6, 1938, Serial No. 212,175

5 Claims. (Cl. 2—67)



1. A bathing suit of material which tends to become translucent when wet and which is elastic around the body having body, crotch and bust portions, and a lining of material stretchable in the same direction as said first material extending from the bottom of the bust portion down the central part only of the front of said waist and trunk portions to the crotch and secured at its side edges to the material of the bathing suit.

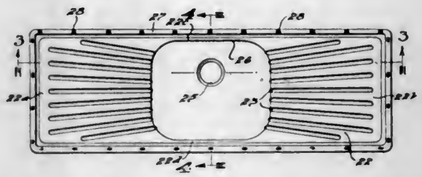
2,157,785

SINK

Harry G. Coordes, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application August 6, 1936, Serial No. 94,647

5 Claims. (Cl. 4—187)



1. A sink of the type adapted to be set into an opening formed in a supporting surface and to overlie the edge of the surface and pressed from a single metal sheet to provide a generally rectangular fluid receiving bowl terminating in a sloping drainboard at at least one side thereof and in a narrow flat horizontal rim extending seamlessly around all four sides of the bowl and being adapted to overlie the edges of said supporting surface, the rim being separated from the face of the drainboard and the upright walls of the bowl by a stepped portion extending continuously around all four sides of the tank.

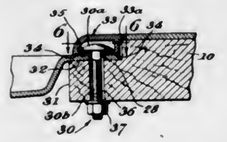
2,157,786

SINK AND TABLE ASSEMBLY

Harry G. Coordes, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan

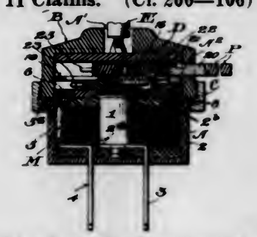
Original application August 6, 1936, Serial No. 94,647. Divided and this application November 20, 1937, Serial No. 175,581

6 Claims. (Cl. 4—187)



1. In a combined table and sink structure, a table having a top shield with an opening therein adapted to receive a sink, the edges of said shield surrounding said opening being provided with a plurality of holes; a sink having around its edges a substantially horizontal outwardly extending flat rim provided with a plurality of holes located in substantial alinement with said shield holes, a molding substantially coextensive with said rim and adapted to overlie said rim, and a plurality of bolts extending through said alined holes for securing the molding to the rim and concealed by said molding, said shield having a recess around the margin of the opening to receive said molding and the molding having a flange overlapping the edge of the recess.

2,157,787
ELECTROMAGNETIC SWITCH DEVICE
Joseph E. Farrell, Washington, D. C., assignor to Automotive Devices Corporation, Washington, D. C., a corporation of Delaware
Application February 5, 1935, Serial No. 5,140
11 Claims. (Cl. 200—106)



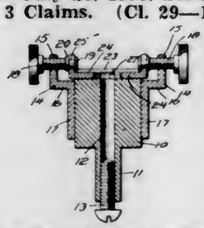
1. A combined overload cut-out and electrical connector of the cord and plug type for establishing a circuit line from a service outlet to a current consuming device, including, a connector body housing a normally closed switch device and electro-magnetic means responsive to overload in the line for opening the normally closed switch device, means accessible from the exterior of the body for manually re-closing said switch, and separate pin type conductors carried by the base and respectively in circuit with the electro-magnet and the switch device.

2,157,788
KEY-FILING DEVICE
Edward N. Howell, Swannanoa, N. C.
Application June 10, 1938, Serial No. 213,017
3 Claims. (Cl. 40—19.5)



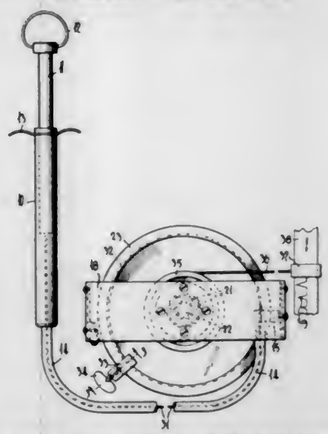
1. A key filing device comprising a sheet, a plurality of individual unitary structures mounted upon the sheet, each structure comprising a plate and a single substantially closed resilient hook, the hook facing upwardly and projecting downwardly to the lower edge of the plate, the hook comprising inner and outer sides, the inner side being adapted to engage with the sheet, the inner side having an outwardly projecting hump and the outer side having an inwardly projecting hump arranged opposite the first named hump, a force in an outward direction upon the free end of the hook serving to press the lower portion of the inner side against the sheet.

2,157,789
JEWEL SETTING HOLDER
Waman Monroe Hudgens and Mark C. Hudgens, Sparta, Tenn.
Application July 26, 1938, Serial No. 221,463
3 Claims. (Cl. 29—10)



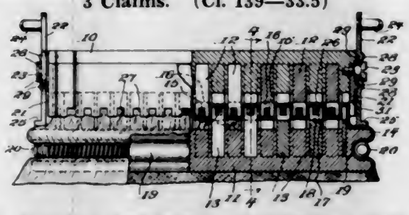
1. A jewel setting holder comprising a support having a work supporting face adapted to support a jewel setting to be reamed, jaws movable across the face toward and away from each other and having V-shaped opposed ends beveled downwardly for overlapping the edge of a jewel setting and clamping the same firmly to the work supporting face of the support.

2,157,790
MEASURING ENERGY IN PSYCHOLOGICAL EXPERIMENTATION
Robert B. W. Hutt, Hartford, and Robert N. Abild, East Hartford, Conn., assignors to trustees of Trinity College, Hartford, Conn.
Application July 20, 1938, Serial No. 220,384
8 Claims. (Cl. 265—20)



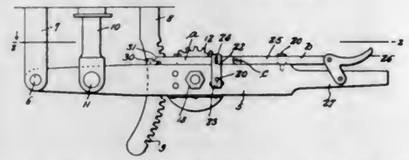
1. A testing machine comprising a guide member, a plunger in the guide member, a tube extending from the guide member, a wire in the tube connected at one end with the plunger and moving with the plunger, a rotatable disc to which the other end of the wire is attached, a bearing shaft about which the disc rotates, an adjustable counterforce mechanism between the disc and the bearing shaft, and a second wire moving with the disc adapted to indicate relative movement between the guide member and plunger.

2,157,791
DARNING DEVICE
William W. Klima, Stewart, Minn.
Application August 22, 1938, Serial No. 226,206
3 Claims. (Cl. 139—33.5)



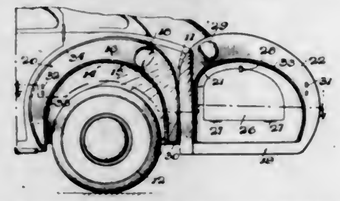
1. Darning apparatus comprising a pair of plates having interdigitating studs, the studs being provided with crossed grooves of respectively different depths for the passage of the darning needle and thread therethrough, a flange on one of the plates, levers on the flange having cam ends adapted to engage the other plate and space the plates so that all of the grooves of one depth will be aligned, the levers being adapted to be swung back upon the flange to permit the plates being moved closer together so that all the studs of another depth will be aligned, and means for yieldably holding the work to be patched on one of the plates.

2,157,792
THROTTLE CONTROL LEVER
David Koonce, Bellaire, Ohio
Application May 25, 1938, Serial No. 210,078
2 Claims. (Cl. 74—530)



1. A control lever comprising a pivotal hand bar, a quadrant, a gear carried by the hand bar and meshing with the quadrant, and holding means on the gear, said holding means comprising a detent carried by the hand bar and expanding means in the gear for holding the gear against rotation and in response to the detent means.

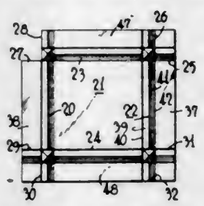
2,157,793
AUTOMOBILE FENDER
Henry W. Lang, Concord, N. H.
Application August 5, 1938, Serial No. 223,359
7 Claims. (Cl. 280—153)



7. An automobile body having a wheel receiving recess and a stationary fender portion upon one side of the recess and projecting laterally beyond the same, a double walled swinging fender portion, having a wheel receiving recess to register generally with the first named recess and having a pocket for receiving tools or the like, a hinge connecting the ends of the stationary fender portion and the swinging fender portion and disposed adjacent to the outer faces of the same.

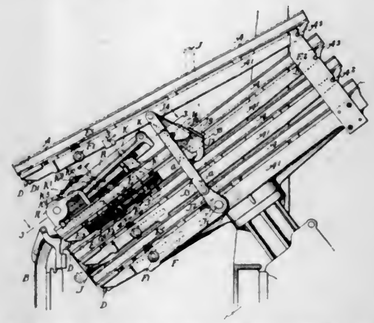
2,157,794
MAKING RECEPTACLES
Edmund R. MacDonald, Attleboro Falls, and Ellison S. Irelan, North Attleboro, Mass., assignors to Evans Case Company, North Attleboro, Mass., a corporation of Massachusetts
Application December 18, 1937, Serial No. 180,664
10 Claims. (Cl. 18—56)

1. The method of forming receptacles from sheets of plastic comprising cutting partially through the sheet double grooves crossing each other said grooves having internal walls at right angles to each other and shorter external walls at right angles to the surface of the sheet, removing corner pieces formed beyond the grooves, bending the sheets at some of the grooves so that the longer walls contact the shorter walls, removing parts of the bent portions at the junctions of the grooves, and bending at other grooves to bring the longer walls into contact with the



shorter walls all without substantially fracturing the material.

2,157,795
TYPOGRAPHICAL MACHINE
Richard R. Mead, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application December 31, 1937, Serial No. 182,691
20 Claims. (Cl. 199—45)



1. A typographical machine including, in combination, a shift frame, a plurality of independently removable matrix magazines carried by said frame, a corresponding plurality of escapement banks mounted in the shift frame in operative engagement with the magazines, mechanisms carried by the shift frame in association with each magazine for lifting the individual magazines out of engagement with their corresponding escapement banks preparatory to removal or replacement, and common devices mounted on a relatively fixed part of the machine for selectively operating the respective magazine lifting mechanisms.

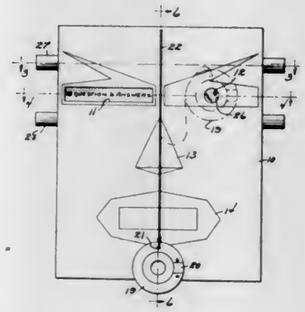
2,157,796
INTERMEDIATES FOR WATER-INSOLUBLE AZO DYESTUFFS
Friedrich Muth, Leverkusen-I. G. Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Original application September 25, 1933, Serial No. 690,950. Divided and this application December 17, 1935, Serial No. 54,943. In Germany October 5, 1932
4 Claims. (Cl. 260—329)

1. Arylamides of the hydroxy diphenylenesulfide-carboxylic acid obtained by causing carbon dioxide to react upon 3-hydroxydiphenylenesulfide in the presence of an alkali, wherein the aryl is a member selected from the group consisting of monocyclic and dicyclic aromatic radicles, said arylamides being yellowish, water-insoluble substances suitable for producing azo-dyestuffs.

2,157,797
INTERMEDIATES FOR WATER-INSOLUBLE AZO DYESTUFFS
Friedrich Muth, Leverkusen-I. G.-Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application September 25, 1933, Serial No. 690,950. In Germany October 5, 1932
4 Claims. (Cl. 260—346)

1. Arylamides of the hydroxydiphenylene-oxide-carboxylic acid obtained by causing carbon dioxide to react upon 3-hydroxydiphenylene oxide in the presence of an alkali, wherein the aryl is a member selected from the group consisting of monocyclic and dicyclic aromatic radicles, said arylamides being yellowish, water-soluble substances suitable for producing azodyestuffs.

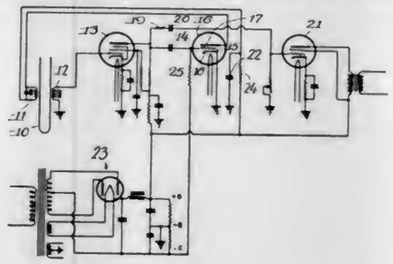
2,157,798
AMUSEMENT DEVICE
Frank Neukils, Tamaqua, Pa.
Application June 17, 1938, Serial No. 214,300
3 Claims. (Cl. 35—9)



1. In a magnetically operated game, a game board having spaced openings therein, a manually operated web movable in a path underneath both openings, said web displaying questions and possible answers only one of which is correct exposed through one of the openings and displaying a symbol designating the correct answer through the other opening, a bar magnet forming a shutter pivoted on the board and normally concealing said symbol, and a manually operable horse shoe magnet adapted to be applied to the board with the poles thereof disposed perpendicular to the poles of the shutter for displacing the shutter to expose said symbol.

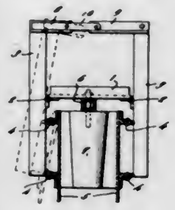
2,157,799
TUNING FORK DRIVING MEANS
Ernst Norrman, Chicago, Ill.
Application June 6, 1938, Serial No. 212,216
6 Claims. (Cl. 250—36)

1. Apparatus of the character described for maintaining unvarying vibrations of a vibratory element, including: a driving element for furnishing driving impulses to said vibratory element, said driving element being adapted to be electrically actuated; an electronic tube having its cathode-plate circuit connected to said driving element to control the initiation of the flow of electricity therethrough; means affected electrically by vibration of said vibratory element connected to the grid of said tube, whereby initiation of said flow is coordinated with vibration of said vibratory element; a condenser connected to said driving element and said tube for delivering, upon initiation of flow by said tube, a predetermined substantially unvarying quantity



of electrical energy; and means for charging said condenser with said quantity of electrical energy between flow periods.

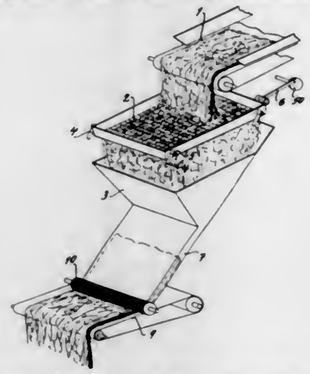
2,157,800
CONCRETE WALL FORM
Jack Ormstead, Tucson, Ariz.
Application March 29, 1938, Serial No. 198,774
1 Claim. (Cl. 25—131)



A concrete wall form of the class described comprising a plurality of cross members, a longitudinal bar mounted beneath said cross members at an intermediate point, a plurality of cores removably mounted beneath said longitudinal bar, a plurality of uprights hingedly mounted, at an intermediate point, on the ends of the cross members, pairs of vertically spaced bars fixed on said uprights beneath the cross members, side plates fixed on the last named bars, hinges mounted for swinging movement in a horizontal plane on the end portions of the last named bars, plates fixed on the hinges at one end of the last named bars and engageable between the side plates for closing this end of the form, arms pivotally mounted on the free ends of the hinges on the other ends of the last named bars, and plates fixed on the free ends of said arms and engageable between the side plates and one of the cores.

2,157,801
APPARATUS FOR THE CHARGING OF CIGARETTE MAKING MACHINES
Ludwig Repper, Bremen, Germany
Application October 27, 1936, Serial No. 107,842
In Germany November 14, 1935
1 Claim. (Cl. 131—39)

A tobacco charging device for cigarette making machines, comprising a conveyor, a compacting device including a hopper, a sieve-like shaking element having all of its meshes of uniform size for loosening the tobacco, the upper end of said hopper being larger than said element, said element being disposed directly above said hopper intermediate the same and said conveyor, said element receiving said tobacco directly from said conveyor



and showering said tobacco directly into said hopper.

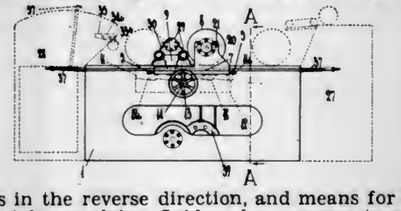
2,157,802
DOUCHE NOZZLE
Frank Rissinger, Columbia, Pa.
Application July 21, 1937, Serial No. 154,867
1 Claim. (Cl. 128—245)



A douche nozzle for treating internal and external parts of a vagina in a body, said nozzle comprising a member formed of a single piece of material and having an elongated trough-shaped part for entering the vagina, said part tapering from its outer end to its inner end and said part including bottom and side walls with its top open and its inner end open and said bottom and side walls being imperforate, the outer end of said trough-shaped part being enlarged, and a chamber forming part extending outwardly and upwardly from the enlarged outer end of the trough-shaped part adapted to fit the body, the chamber in said chamber part being entirely closed except at that side which faces the trough-shaped part with the lower part of the chamber forming a continuation of the trough formed by the trough-shaped part and a tube in communication with the lower end of the chamber for introducing liquid into the trough formed by the trough-shaped part and into the chamber of the chamber part.

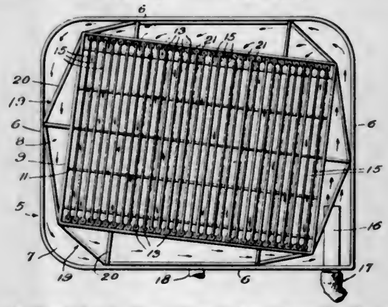
2,157,803
PRINTING PRESS
Harry George Rogers, Wellington, New Zealand
Application September 23, 1936, Serial No. 102,204
In New Zealand September 28, 1935
11 Claims. (Cl. 101—272)

1. In a printing press, a frame, a stationary printing bed, a carriage movable over said bed, an impression cylinder mounted in said carriage, pairs of oppositely acting oppositely arranged telescopic tubes, one of the tubes of each pair being attached to said frame and the other tube being connected with said carriage whereby one pair of tubes during expansion moves the carriage always in one direction and the other pair of tubes during expansion moves the carriage al-



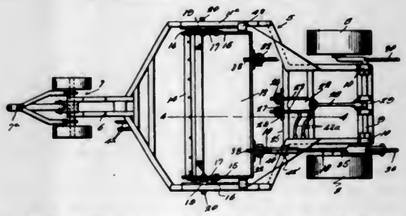
ways in the reverse direction, and means for alternately supplying fluid under pressure to said pairs of tubes.

2,157,804
COMBINED PRINT WASHING AND FIXING DEVICE
Robert H. Takase, Honolulu, Territory of Hawaii
Application November 16, 1937, Serial No. 174,861
2 Claims. (Cl. 95—98)



1. A device of the character described, comprising, a print basket adapted for use in a wash tank, spaced separators within said basket, and a frame about said basket including side and end sections angularly disposed relative to both the sides and ends of said basket, a pair of said side sections adjacent the sides of said basket adapted for appressed engagement with the sides of said tank, and pairs of said end sections having corners adapted for engagement with the ends of said tank, said pair of side sections coacting with said corners of said pairs of end sections to position and maintain the sides of said basket in antiparallelism with the sides of said wash tank whereby liquid circulated in said tank is directed between said separators.

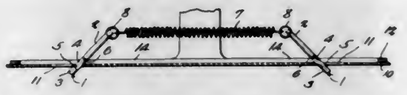
2,157,805
SCRAPER
Jay Wiley Thompson, Visalia, Calif., assignor to Thompson Manufacturing Company, Visalia, Calif., a limited copartnership of California
Application August 7, 1937, Serial No. 157,986
3 Claims. (Cl. 37—126)



1. In a scraping machine of the character de-

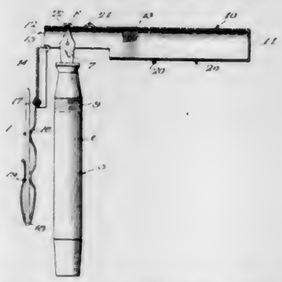
scribed, a wheel-supported frame, a scraper bowl extending transversely of the frame intermediate the ends of the latter, and means for mounting the bowl on the frame for vertical adjustment to control the digging depths thereof, and for vertical swinging movement to dump the bowl, said means including bearings on opposite sides of said frame, stub shafts journaled in said bearings, disks on the inner ends of said stub shafts, said stub shafts being eccentrically disposed with respect to said disks, and a circular series of clips on each side of said bowl and engaging the peripheries of said disks.

2,157,806
LICENSE PLATE HOLDER
Charles Tilton, Fort Madison, Iowa
Application February 12, 1938, Serial No. 190,311
1 Claim. (Cl. 40—125)



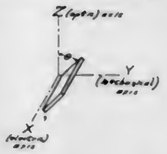
In a device for connecting a tag to a support, straight, rigid anchors each having a reduced neck defining spaced shoulders at the forward end of each anchor, the shoulders forming biting edges at each side of each anchor, and a straight retractile spring connected pivotally with the anchors at their rear ends, the open space between the shoulders of each anchor being such, compared with the combined thicknesses of the tag and the support, that the anchors will fulcrum intermediate their ends on the display device, swing in a plane substantially at right angles to the tag, stand at an acute angle to the tag and the support, under the action of the spring, and effect a pinching of the tag and the support between certain of the biting edges of the shoulders of each anchor, the spring constituting the sole means for causing the anchors to pinch the tag and the support, the anchors acting as rigid levers of the first order, all portions of each anchor being disposed in the same plane, whereby the anchors may be reversed, thereby to render others of the biting edges available for use.

2,157,807
LETTER BALANCE
Rudolf Westermann, Amatitlan, Guatemala
Application June 21, 1938, Serial No. 215,045
2 Claims. (Cl. 120—1)



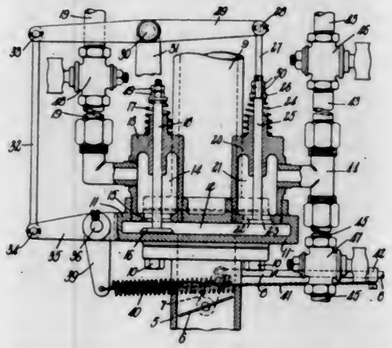
1. A device of the character described, comprising, in combination with a fountain-pen barrel equipped with a pen point having a nib; a cap attachable to said barrel for protecting said pen point and fashioned with a hinged section and a plurality of fulcrum points, one of said fulcrum points adapted to receive said nib to balance said cap on said pen point, a clip carried by said section for maintaining the latter in closed position relative to said cap and constituting an article support when said section is suspended from said cap in open position to permit said pen point to engage one of said fulcrum points.

2,157,808
PIEZOELECTRIC CRYSTAL
John M. Wolfskill, Erie, Pa., assignor to Bliley Electric Company, Erie, Pa., a partnership composed of F. Dawson Bliley and Charles Collman
Application August 27, 1935, Serial No. 38,134
3 Claims. (Cl. 171—327)



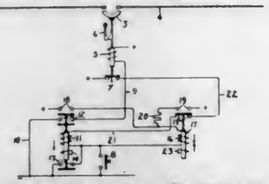
1. A piezo-electric crystal cut from a crystalline body and adapted for operation in a shear mode at an odd harmonic, said odd harmonic being a high or ultra high frequency, said crystal being so cut that its electrode faces are substantially parallel to an x axis of the crystalline body and make an angle of substantially —19 degrees with the z axis of the crystalline body.

2,157,809
FUEL MIXING DEVICE
Conrad J. Zagwyn, Brighton, Mass.
Application October 27, 1937, Serial No. 171,241
8 Claims. (Cl. 123—119)



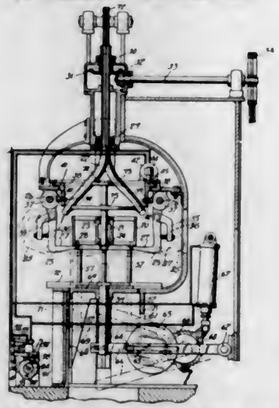
1. The combination with a carbureter and intake manifold of an internal combustion engine, of a casing having a fuel mixing chamber therein interposed between said carburetor and manifold and communicating therewith, means to deliver exhaust gases from said engine into said mixing chamber, a pressure valve for said gas delivery means actuated by suction within the mixing chamber, means to deliver air into the mixing chamber, a pressure valve for said air delivery means also actuated by suction within the mixing chamber, and means operable in unison with the throttle valve of said carbureter to vary the force upon the air valve tending to hold said valve closed.

2,157,810
CONTROL OF ELECTRIC SWITCHES
Herman Bany, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application September 10, 1938, Serial No. 229,332
8 Claims. (Cl. 175—294)



1. In a control system for effecting the closing operation of a circuit breaker provided with electromagnetic closing means, a closing control relay, means for controlling the energization of said control relay including a circuit and two serially related switches therein, a lockout relay effective when energized while one of said switches is closed to open the other of said switches and to maintain said other switch open as long as said one switch is maintained closed, and means for energizing said lockout relay in response to the closing operation of said control relay and independently of the circuit controlling position of the circuit breaker.

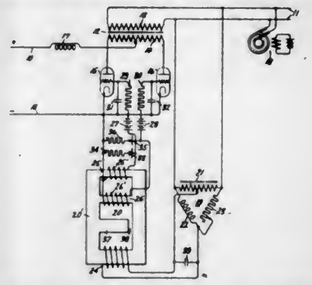
2,157,811
COILING MECHANISM
Harold K. Beach, Cranford, N. J., assignor to Phelps Dodge Copper Products Corporation, New York, N. Y., a corporation of Delaware
Application February 15, 1938, Serial No. 190,557
11 Claims. (Cl. 242—84)



4. An apparatus for continuously forming wire and/or rods into coils, comprising a rotating flyer, a drum loosely mounted in relation thereto to receive the coil, two sets of fingers mounted for alternate intermittent movement to and from the said drum whereby one set of fingers is always in engagement with the drum to hold the drum against rotation.

2,157,812
ELECTRIC VALVE CIRCUIT
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1932, Serial No. 614,134
12 Claims. (Cl. 175—363)

1. In an electric translating circuit including a grid controlled vapor electric valve for controlling the flow of current therein, a source of alternating potential of substantially sinusoidal wave form, electromagnetic means for converting



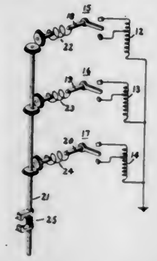
said sinusoidal potential into one of peaked wave form, a grid circuit for said valve energized therefrom, and means for loading said electromagnetic means during the negative half cycle of the grid potential.

2,157,813
ICE CREAM DIPPER
Leopold Biskup, Philadelphia, Pa., assignor of one-half to Joseph Stasinski, Philadelphia, Pa.
Application November 16, 1938, Serial No. 240,612
5 Claims. (Cl. 107—48)



1. An ice cream dipper including in combination a longitudinal body, a handle on said body, a casing at the lower end of said handle, said casing having an off-set portion, a shaft transversely journaled in said casing, two gears fixed to said shaft, a rod like portion on said body, opposite said gears, a sliding member on said rod like portion a rack on said sliding member in line with the length thereof, said rack being in mesh with one of said gears, a lever member pivoted on said body at a point remote from said gears, a curved rack portion on said lever member, in mesh with the other of said gears, a spring connecting said body with said lever member normally holding said lever member in initial operative position, a bowl fixed upon the lower end of said body, a pair of scoops pivoted on the outside of said body, and connections between said scoops and said sliding member for turning said scoops when said sliding member slides on said rod portion.

2,157,814
POLYPHASE TRANSFORMER TAP-CHANGING MECHANISM
Karl Bölte, Karlshorst, Germany, assignor to General Electric Company, a corporation of New York
Application February 8, 1937, Serial No. 124,733
In Germany February 13, 1936
1 Claim. (Cl. 200—6)



The combination with a plurality of snap action tap switches for a polyphase transformer, of a common operating means including a spring connection for operating the switches, each switch including an individual spring connection between itself and said common spring connection.

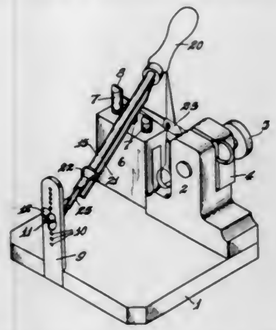
2,157,815
ELECTRICAL PROTECTIVE DEVICE
Ralph V. Boyer, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 27, 1938, Serial No. 187,209
12 Claims. (Cl. 200—120)



12. In an expulsion fuse, walls which define a primary fuse chamber and walls which define an auxiliary fuse chamber within the primary fuse chamber, the walls constituting at least one of said chambers having a surface comprising methyl methacrylate in a solid state of polymerization.

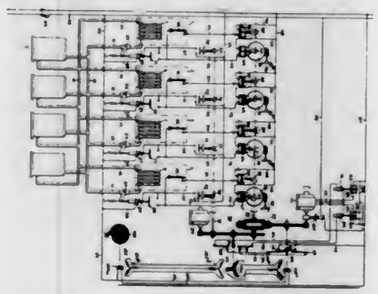
2,157,816
DEVICE FOR SHARPENING CUTLERY
Samuel L. Carosi, Martins Ferry, Ohio
Application December 6, 1938, Serial No. 244,234
1 Claim. (Cl. 76—82.2)

In a device for sharpening cutlery, a vise for rigidly holding one end of the article to be sharpened, means for supporting the opposite blade end of said article, a file for sharpening the cutting edge of said blade and adapted to be reciprocated laterally across the cutting edge, a handle, one end of said file being retained in said handle, a tube having one of its ends retained in said handle and projecting outwardly therefrom in substantially parallel relation above said file, a rod, said tube being telescopable on said rod, the free



end of said rod terminating in a ball, a socket for embracing and retaining said ball, a rod supporting post, said socket being adapted to be supported in any of a plurality of vertically aligned apertures provided in said rod supporting post whereby the angle of inclination of said rod, tube and file with respect to the cutting edge of said blade may be adjusted.

2,157,817
ZONE HEATING SYSTEM
Harry R. Crago, Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application November 14, 1936, Serial No. 110,871
22 Claims. (Cl. 236—91)



2. In a heat transfer medium supply system for a plurality of zones, the combination including separate regulating means for controlling the supply of heat transfer medium to each of said zones, means for controlling said separate regulating means to distribute said medium to said zones periodically and sequentially, said control means including a pair of relatively variable timing means one periodically rendering said separate regulating means effective sequentially to supply said medium to the respective zones, and the other periodically rendering said separate regulating means effective sequentially to terminate the supply of said medium to the respective zones, and means for varying the relative time of operation of said timing means.

2,157,818
SHOE
John E. Disch, Dolgeville, N. Y., assignor to Daniel Green Company, Dolgeville, N. Y., a corporation of Massachusetts
Application July 21, 1937, Serial No. 154,701
4 Claims. (Cl. 36—18)



1. A turned shoe comprising an upper of pliable material having its bottom margin inturned to provide marginal extension strips at its forepart, a sole having a padding fastened thereto inside the edges of the sole with the outer edges thereof bent over inwardly to abut with a surface-to-surface contact against the outer edges of the padding, stitches passing through the upper and bent-over portions of the sole with the marginal strips of the upper cemented to the padding inwardly of the bent-over portions of the sole, a rearwardly open pocket superposed over said padding, and a shank member carried in said pocket extending forwardly toward said extension strips.

2,157,819
BAIT FLOAT
Frederick Eckert, New York, N. Y.
Application January 25, 1938, Serial No. 186,759
2 Claims. (Cl. 43—27)



1. A bait float comprising a fishing line a sinker weight attached to the end of the line for sinking to the bottom of a body of water containing fish, a short length of flexible spring wire attached to said weight to have a tendency to lay upon the bottom of said body of water, a float mounted on an intermediate area of said wire to slightly float and hold said wire in an arcuate upwardly extended position off the said bottom, and a snell with a hook secured upon a portion of said wire, and means for assisting in holding said wire in its arcuate shape.

2,157,820
BAR FOR HELICAL SPRINGS
John F. Fleck, Latrobe, Pa., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application March 1, 1938, Serial No. 193,256
5 Claims. (Cl. 267—61)

1. A spring bar for coiling into a helical spring comprising an inner face adapted to provide the inner face of said spring; an outer face adapted to provide the outer face of said spring; and connecting faces respectively connecting corresponding ends of said inner and outer faces, said connecting faces changing their directions at substantially the geometrical medial plane between said inner and outer faces, the portions of said connecting faces extending from said plane to said inner face converging toward said inner face, the contour of said bar being thereby rendered non-symmetrical at opposite sides of said plane, the portion of said bar at the outer face side of said plane being of greater weight than the portion of said bar at the inner face side of said plane, whereby the axis of torsion

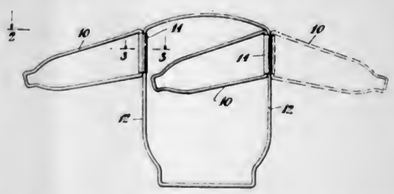


of said bar is correspondingly disposed between said plane and said outer face, said converging portions being of sufficient widths and converging to a sufficient extent to maintain said axis of torsion between said plane and said outer face and to prevent the over-all height of said bar from increasing beyond the height at said plane when said bar is upset due to the coiling thereof to form a helical spring of predetermined diameter.

2,157,821
HYDROCARBON OIL EXTRACTION
Seymour W. Ferris, Aldan, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application July 3, 1933, Serial No. 678,928
5 Claims. (Cl. 196—13)

4. In a process for separating mineral oils containing paraffinic and naphthenic constituents into fractions respectively more paraffinic and more naphthenic than the original oil, the step comprising extracting the oil in the presence of a low boiling hydrocarbon diluent with a nitrogen-containing cyclic compound, the said diluent and nitrogen-containing cyclic compound being adapted to form a two-layer liquid system in contact with each other.

2,157,822
CLOTHES DRYING FRAME
Harriet Holder French, Newport, R. I.
Application August 17, 1938, Serial No. 225,258
6 Claims. (Cl. 223—69)



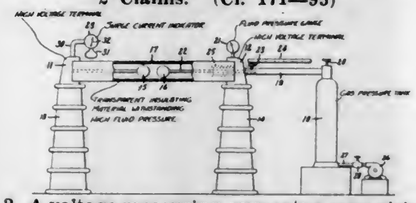
1. In a clothes drying frame having a plurality of frame members consisting essentially of wire strands, a strand of wire bent to form a frame member, another strand of wire bent to form a smaller frame member adapted to fit into the larger member, a hinge comprising a metal sheet bent around portions of the wire strands of the aforesaid frame members to hold them together, the smaller frame member being held stationary in the hinge and the larger frame member being held movable in the hinge.

2,157,823

HIGH VOLTAGE MEASUREMENT MEANS

Eugen Hubel, Berlin, Germany, assignor to General Electric Company, a corporation of New York

Application February 8, 1938, Serial No. 189,428
In Germany February 17, 1937
2 Claims. (Cl. 171—95)



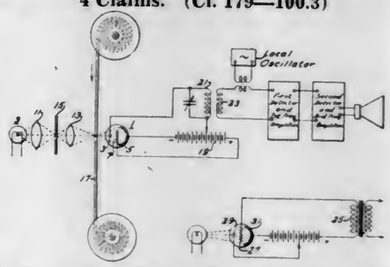
2. A voltage measuring apparatus comprising a pressure chamber, a pair of electrodes therein, and indicating means electrically responsive to an electrical discharge between said electrodes for indicating the occurrence of break down between the electrodes.

2,157,824

PHOTOELECTRIC CELL OSCILLATION CIRCUIT

Harley A. Iams, Berkeley Heights, N. J., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Original application December 12, 1930, Serial No. 501,878. Divided and this application October 12, 1938, Serial No. 234,617
4 Claims. (Cl. 179—100.3)



1. In combination with an electric discharge device having a photo-sensitive electrode and at least two other electrodes cooperating therewith, means for impressing a positive potential on one of said other electrodes relative to said photo-sensitive electrode, means for impressing a smaller positive potential on the other of said two other electrodes relative to said photo-sensitive electrode, a condenser shunted by an inductance to constitute an oscillatory tuned circuit associated with one of said two other electrodes, a transformer having its primary winding energized by a current flowing through one of said two other electrodes and having its secondary winding connected to a load circuit, a beam of radiant energy incident upon said photo-sensitive electrode and means for varying the intensity of said beam at an audible frequency.

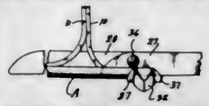
2,157,825

BUMPER STRUCTURE

Herbert S. Jandus, Detroit, Mich., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application December 17, 1937, Serial No. 180,272
3 Claims. (Cl. 293—55)

1. An automobile bumper comprising a horizontally extending impact bar structure comprising end portions and a middle portion, said end portions being in substantially vertical planes, said middle portion comprising comparatively wide upper and lower bars arranged edgewise in horizontal vertically spaced planes, hanger bars adapted to be secured to an automobile body



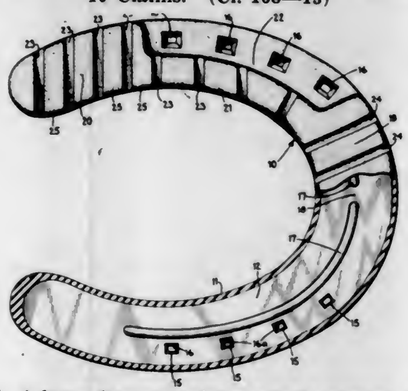
and secured at their forward ends to said impact bar structure end portions, U-fittings secured by their yokes to the forward ends of said hanger bars and having upper and lower legs extending rearwardly, said upper and lower horizontal bars being secured at their ends to the upper and lower legs of said U-fittings respectively.

2,157,826

HORSESHOE

William P. Kearney, Woodmere, N. Y.

Application July 31, 1936, Serial No. 93,556
10 Claims. (Cl. 168—13)



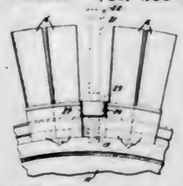
1. A horseshoe comprising a body portion and calk portions of resilient material depending therefrom for supporting the weight of a horse and having a plurality of relatively deep narrow grooves extending transversely thereof, said grooves being inclined upwardly and rearwardly from the lower surface of said shoe.

2,157,827

TURBINE ROTOR

Erich Kliemann, Berlin, Germany, assignor to General Electric Company, a corporation of New York

Application February 24, 1938, Serial No. 192,372
In Germany May 12, 1937
3 Claims. (Cl. 253—77)



1. A bucket wheel comprising a disc member having a rim and a row of buckets having bases secured to the rim by a dovetail connection therebetween, the rim having a notch opening through

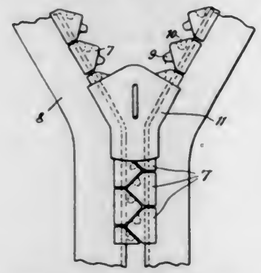
which the bucket bases are inserted during assembly, a screw threaded into the periphery of the rim at the notch opening, said screw provided with a conical head the taper of which corresponds with the radius of curvature of the wheel adapted to engage with and exert a circumferential pressure against the bases of the adjacent buckets, recesses in the bases of adjacent buckets for cooperation with and providing enlarged seating surfaces for said screw head whereby relative movement between the disc member and the buckets is prevented.

2,157,828

SLIDING CLASP FASTENER

Josef Kuna, Prague, Czechoslovakia

Application September 15, 1937, Serial No. 163,903
In Germany June 12, 1937
5 Claims. (Cl. 24—205)



2. In a slide fastener, two rows of fastening members, the successive fastening members of each row following one another substantially continuously and being staggered longitudinally of the fastener with respect to the fastening members of the other row, each fastening member terminating inwardly in a right angle having, in closed position of the fastener, its sides disposed at approximately 45° to the longitudinal axis of the fastener and at least partly in contact with the adjacent sides of the preceding and succeeding members of the opposite row, and each individual fastening member of one row being staggered relative to said preceding member of the opposite row a distance substantially equal to the projection of the contacting portions of the adjacent angle sides onto the longitudinal axis of the fastener, whereby, in closed position of the fastener, the two rows complement each other to a substantially continuous strip, each of said right angles carrying on one side thereof an interlocking element projecting towards the succeeding fastening member of the opposite row at an angle of approximately 45° with respect to the longitudinal axis of the fastener and being provided on its other side with a recess at right angles to said interlocking element to receive the interlocking element carried by the preceding fastening member of the opposite row.

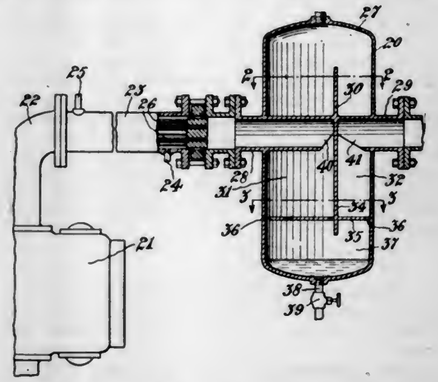
2,157,829

SEPARATOR

Chester W. Metzgar, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application May 14, 1937, Serial No. 142,717
4 Claims. (Cl. 183—110)

1. A separator for moisture and the like carried by a fluid, comprising a casing, a fluid inlet conduit extending into the casing having a restricted outlet opening to increase the velocity of a fluid entering the casing, a fluid outlet conduit extending into the casing having an inlet opening contiguous to the restricted outlet opening, and a baffle interposed between the conduits forming a



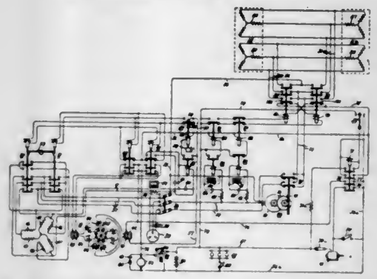
bounding surface for each opening and extending into the casing to deflect fluid from the outlet opening through the casing and into the inlet opening.

2,157,830

POWER SYSTEM

David W. McLenegan, Caldwell, N. J., assignor to General Electric Company, a corporation of New York

Application December 29, 1937, Serial No. 182,275
Renewed January 26, 1939
4 Claims. (Cl. 172—289)



4. A power system including an alternating current generator, a variable speed device arranged to drive said generator, said generator having a plurality of pairs of field poles, an alternating current motor, said motor having windings providing two ranges of speed, means for supplying to said motor current produced by said generator to energize said motor, means responsive to the frequency of the current produced by said generator for changing the effective number of pairs of said field poles to vary the frequency of the current produced by said generator and for maintaining the range of frequency of the current produced by said generator more narrow than the range of speed of said device, means dependent upon the frequency of the current produced by said generator for selecting either of said ranges of speed of said motor, and means for connecting to said motor a source of alternating current other than said generator and for rendering inoperative said generator pole changing means.

2,157,831

STABILIZED ANTISEPTIC CREAM

Michael G. Minaeff, Metuchen, and Ronald C. Hughes, Highland Park, N. J., assignors to Zonite Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 17, 1937, Serial No. 159,488
4 Claims. (Cl. 167—63)

1. A chemically and physically stable ointment or cream including an organic chlorine-yielding substance, an alkaline stearate, a substantial excess of stearic acid, and a saturated higher fatty alcohol selected from the group consisting of tetradecyl alcohol, hexadecyl alcohol and octadecyl alcohol, said alcohol being present in a proper proportion to prevent crystallization of the preparation.

2,157,832

ELECTRIC CIRCUIT INTERRUPTER

Paul Nowak, Berlin-Charlottenburg, Carlos Tobis, Berlin-Oberschoneweide, and Hermann Hofmeier, Berlin-Charlottenburg, Germany, assignors to General Electric Company, a corporation of New York

Application November 10, 1937, Serial No. 173,948
In Germany November 10, 1936
5 Claims. (Cl. 200—149)



1. In an electric switch wherein an arc is struck and gas is evolved for extinguishing the arc from the walls of a structure confining the arc, an assembly comprising a base member and firmly united under heat and pressure to at least those portions of said member which are exposed to the heat of the arc a preformed layer of a composition comprising a polymerized organic compound having a vinyl grouping and adapted to yield an arc-interrupting gas under an arc heat.

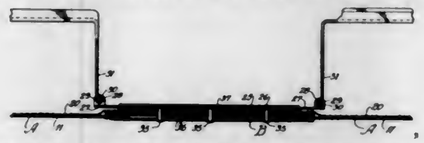
2,157,833

HAND LUGGAGE

Oscar H. Plotkin, Chicago, Ill., assignor to S. Dresner & Son, Inc., Chicago, Ill., a corporation of Illinois

Application March 13, 1937, Serial No. 130,770
5 Claims. (Cl. 190—41)

1. In an article of luggage, the combination of a rigid base section hingedly connected to two side case sections, in a manner whereby, when opened, the case sections present a continuous flat surface and, when closed, an enclosure between them, a flexible liner adapted to be releasably secured within the case sections, interengaging means at the opposite ends of each side section to releasably secure said liner at its opposite ends thereto, and interengaging means on said base section to releasably secure said liner thereto at a point intermediate of its ends, the liner being



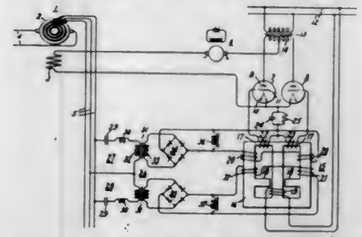
supported at three points by said interengaging means so as to lie flat within the case sections when the latter are opened to present a continuous flat surface and to take the form of said case when the sections are in closed position.

2,157,834

ELECTRIC REGULATING SYSTEM

August Schmidt, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 1, 1936, Serial No. 113,628
2 Claims. (Cl. 250—27)



1. In combination, an alternating current supply circuit, a load circuit, electric valve means interposed between said circuits for controlling the energization of said load circuit and including a control member for controlling the conductivity of said electric valve means, a second alternating current circuit, and a control circuit for controlling the frequency of said second mentioned alternating current circuit comprising a frequency selective circuit including two resonant circuits, one of said resonant circuits having a natural resonance frequency corresponding to a frequency greater than the frequency of said second mentioned alternating current circuit and the other of said resonant circuits having a natural resonance frequency less than the frequency of said second mentioned alternating current circuit, rectifying means associated with each of said resonant circuits for supplying direct currents which vary in accordance with the frequency of said second mentioned alternating current circuit and saturable inductive means selectively controlled by said resonant circuits for impressing on said control member an alternating voltage variable in phase for controlling the conductivity of said electric valve means in accordance with said direct currents.

2,157,835

HAT RETAINING DEVICE

Mortimer J. Solomons, New York, N. Y.

Application October 18, 1938, Serial No. 235,552
6 Claims. (Cl. 132—61)

1. A hat retaining device, comprising an elastic loop for attachment on a lady's hat in the vicinity of the head-size band, and a hairpin supported on said loop, a clip having an opening and clamp portions attached on the ends of said loop, and a



fastener on said hat and coactable with said clip and opening for releasably holding the loop.

2,157,836

GLOVE

Irwin Steinberger, New York, N. Y., assignor to Aris Gloves, Inc., New York, N. Y., a corporation of California

Application April 5, 1938, Serial No. 200,094
3 Claims. (Cl. 2—159)



1. A glove including a body, a thumb and fingers at one end of the body, said body at the back being formed of a plurality of panels, the end portions of certain of said panels forming the fourchette members of the fingers, each of said certain panels being integral and continuous with a pair of fourchette members and forming facing sides of adjacent fingers.

2,157,837

FASTENING DEVICE

Irwin W. Tucker, Washington, D. C.

Application November 6, 1937, Serial No. 173,088
6 Claims. (Cl. 24—205)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



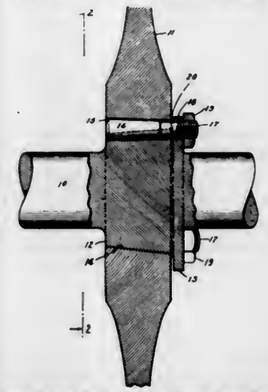
6. A continuous slide fastener for meeting edges of an article comprising a continuous jaw secured to one of said edges, a tongue member secured to the other edge, a plurality of additional jaws independently hinged on said continuous jaw, said hinged jaws having a portion adapted to coact with said continuous jaw to embrace said tongue member, removable means for holding said hinged jaw in closed relation, said removable means comprising a longitudinal groove in said continuous jaw beneath said hinged jaws on the side of their hinged points opposite the tongue embracing portion, a rod tapered at one end having a flange secured to it at its tapered end, said flange being adapted to slidably register in said groove, and a projecting lip secured to the tapered end of said rod.

2,157,838

ELASTIC FLUID TURBINE SHAFT AND DISK STRUCTURE AND THE LIKE

Donald F. Warner, Lynn, Mass., assignor to General Electric Company, a corporation of New York

Application April 23, 1937, Serial No. 138,575
4 Claims. (Cl. 287—52.05)



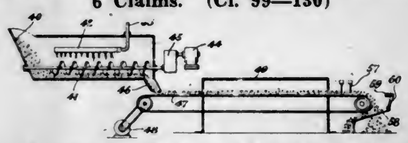
3. The combination of a first machine element having a tapered portion, a second machine element having a tapered opening surrounding and shrunk onto said tapered portion, and means rigidly securing the two elements together comprising at least three tapered pins disposed in substantially uniformly spaced openings formed in adjacent portions of the two elements, the openings for the pins being tapered in a direction opposite to the taper of the tapered portion of the first element.

2,157,839

FOOD PREPARATION AND METHOD FOR MAKING THE SAME

Amy Wertheimer, New York, N. Y.

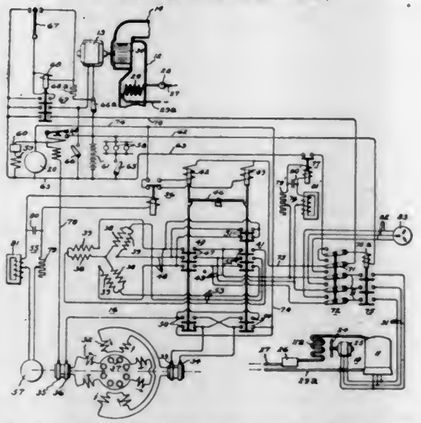
Application December 21, 1934, Serial No. 758,536
6 Claims. (Cl. 99—130)



1. A method of making a flavored food preparation which comprises evaporating water from a flavored food product at sub-atmospheric pressure, producing the resulting concentrated food product in the form of a mass of discrete particles, coating the individual particles of a mass of said food product in finely-divided and desiccated condition with an envelope of gelatine solution and drying the envelope of gelatine solution under sub-atmospheric pressure without boiling the gelatine solution of said envelope.

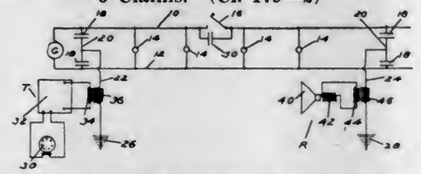
5. A food preparation which comprises a multiplicity of discrete particles, the individual particles of which have a nucleus of flavored gelatine and surrounding said nucleus a thin adherent envelope of gelatine deficient in the flavor of said flavored gelatine.

2,157,840
POWER SYSTEM
Max A. Whiting, Schenectady, N. Y., and David W. McLenegan, Caldwell, N. J., assignors to General Electric Company, a corporation of New York
Application December 29, 1937, Serial No. 182,266
18 Claims. (Cl. 171—313)



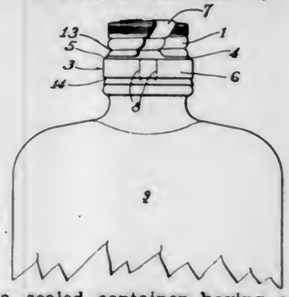
18. A vehicle having electrically driven auxiliary apparatus thereon, a power system for supplying energy to said auxiliary apparatus including an alternating current generator having a plurality of pairs of field poles, means for utilizing movement of said vehicle to drive said generator, means including an alternating current motor the speed of which is dependent upon the frequency of the current supplied thereto for driving said auxiliary apparatus, means for supplying to said motor current produced by said generator, means responsive to the speed of said vehicle for changing the effective number of pairs of said field poles to vary the frequency of the current produced by said generator and for maintaining the range of speeds of said motor more narrow than the range of speeds of said vehicle, and means depending upon a predetermined speed of said vehicle for disconnecting said motor from said generator, said last mentioned means including a relay adapted in its "drop out" position to effect the disconnecting of said motor and also arranged to be picked up initially at a predetermined minimum frequency of the current produced by said generator.

2,157,841
ELECTRICAL SYSTEM
Samuel E. Adair, Chicago, Ill., assignor, by mesne assignments, to Bendix Radio Corporation, Baltimore, Md., a corporation of Delaware
Application December 19, 1936, Serial No. 116,839
6 Claims. (Cl. 179—2)



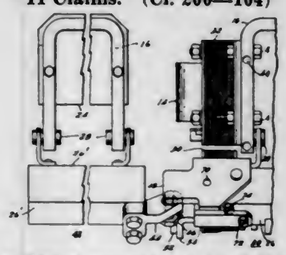
1. In an electrical system having a source of electric power and a lighting circuit including two conductors connected to said source and a plurality of electric lights connected in parallel between said conductors, a communication system comprising a plurality of connections in parallel between said conductors and each including a pair of condensers having one set of plates connected to said conductors respectively and having a lead connecting their other sets of plates electrically together, grounded auxiliary conductors connected respectively to said leads, a transmitter inductively coupled to one of said grounded auxiliary conductors, and a receiver inductively coupled to another of said grounded auxiliary conductors.

2,157,842
CONTAINER AND CLOSURE
John L. Armitage and John E. Sharp, New Kensington, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1936, Serial No. 101,609
3 Claims. (Cl. 215—7)



1. In a sealed container having a threaded neck portion adjacent the mouth of the container, a cup-like closure cap detachably secured thereto by complementary threads, and a frangible locking band engaging the lower edge of the cap and a portion of the container surface, the combination with said cap and band of a pair of oppositely disposed, elongated tear-off tabs integrally connected with said locking band each of said tabs having the free end portion thereof bent substantially perpendicular to the vertical axis of said cap and bearing intimately against the top of said cap, whereby said cap is rotatably locked by said tabs until displacement thereof from contact with said cap.

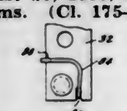
2,157,843
ELECTRICAL CONTACTOR
George C. Armstrong and Delbert Ellis, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 28, 1936, Serial No. 98,322
11 Claims. (Cl. 200—104)



11. In a device comprising a contact-carrying

shaft bar and an electromagnet having a movable armature adapted to rotate the bar into contact engaging position, the combination of a bearing, a bracket for supporting the bar from said bearing, a second bracket for connecting the bar with the magnet armature, common means for securing said brackets to opposite sides of the shaft bar, and means independent of the armature bracket for further securing the bearing bracket to the shaft bar whereby the armature bracket may be removed without detaching the bearing bracket.

2,157,844
ELECTROMAGNET WITH SHADING COIL
George C. Armstrong and Delbert Ellis, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 28, 1936, Serial No. 98,323
5 Claims. (Cl. 175—338)



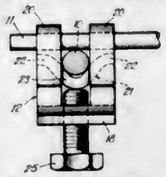
1. In combination, an electromagnet having a pole piece provided with slots, a shading coil comprising a metal link member fitted into said slots and there held by the biasing action of folds or bends formed in its side portions tending to change the angle of bend, the dimensions of and mounting for the link being such that the cross sectional area of the pole piece may be increased without imposing harmful stresses on the link.

2,157,845
METHOD OF MAKING MEASURING INSTRUMENT POINTERS
Henry L. Bernarde, Kearny, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 9, 1936, Serial No. 104,828
2 Claims. (Cl. 29—148)



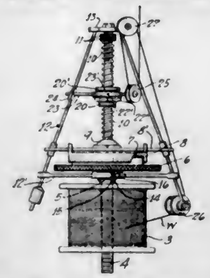
1. The method of manufacuring a pointer having a tapered thickness from the point to the base thereof, which comprises dipping a piece of sheet material into a corrosive bath to a depth corresponding to the desired length of the tapered portion and withdrawing it at such speed that a progressively increasing amount of material is removed from the sheet to form the desired tapered thicknes, and cutting a pointer of desired shape from said sheet material.

2,157,846
TAP CONNECTER
Arthur A. Berndt, Chicago, Ill., assignor to Electroline Corporation, Chicago, Ill., a corporation of Illinois
Application February 21, 1936, Serial No. 65,055
6 Claims. (Cl. 24—243)



1. A connecter for connecting electrical conductors comprising a housing having straight side portions and overlapping base portions, said housing being slotted longitudinally to provide spaced housing members, a clamping member located within the housing and having slidable movement in the direction of the slots, said member having a shape to provide a trough transversely of the member for receiving a main conductor located between the spaced housing members, and said member having oppositely disposed ears extending between the straight side portions of the housing members respectively for engaging a tap conductor extending through the spaced housing members, portions extending from said clamping member adapted to fit within said slots and guide the member in its movement, and a stud having threaded engagement with the overlapping base portions for actuating said clamping member.

2,157,847
DESPOOLER
Penrose E. Chapman, St. Louis, Mo.
Application February 17, 1937, Serial No. 126,155
5 Claims. (Cl. 242—128)

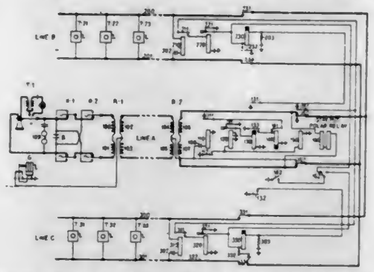


1. In a despooling device the combination of a flyer, braking elements therefor, a spring actuating said braking elements with means for centrally attaching said spring to the wire being despooled by said device, the pull of said wire actuating said spring.

2,157,848
TELEPHONE SYSTEM
Thomas F. Crocker, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 28, 1936, Serial No. 117,837
9 Claims. (Cl. 179—28)

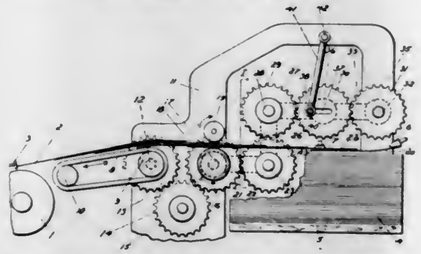
1. In a telephone system, a common switching point, a control line terminating in said switching point, a party line terminating in said switching point, a magneto for each subscriber on said

party line, and means including a vibratory contact and a slow-to-operate relay fully operated by said vibratory contacts responsive only to the operation of one of said magnetos in accordance with one particular code for establishing con-



nections with said control line and said slow to operate relay remaining unoperated by said vibratory contacts responsive to the operation of one of said magnetos in accordance with the code assigned to a subscriber on said party line thereby preventing connection with said control line.

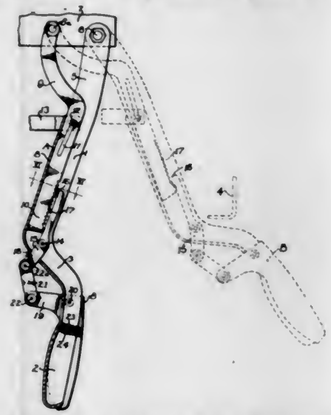
2,157,849
SHEET FEEDING APPARATUS
Yngve A. F. Danielsson, Goteborg, Sweden, assignor to Aktiebolaget Westerlin & Co., Goteborg, Sweden
Application July 26, 1937, Serial No. 155,771
3 Claims. (Cl. 271—12)



1. A sheet feeding apparatus comprising a sheet separator and a main feeding device, a feeding roller and conveyer belts combined so as to produce an overlapping motion to the sheets fed thereto at regular intervals, means for giving an irregular feeding speed to the sheets and comprising pivotal links, a train of circular gear wheels on the links, the gear at the free end of the links geared to the feed roller and conveyer belts, a connecting rod pivoted to a fixed pivot at one end and having a crank pin on the opposite end engaging in a longitudinal slot provided in one of said wheels causing the links to oscillate, resulting in a periodical variation of the speed of the sheets, whereby said main feeding device passes a sheet over said feeding roller to the conveyer belts.

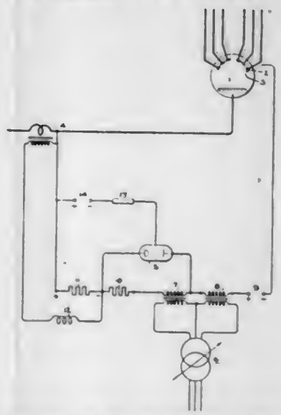
2,157,850
HAND BRAKE LEVER
Arthur P. Fergueson, Detroit, Mich., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application November 12, 1936, Serial No. 110,441
21 Claims. (Cl. 74—537)

1. Brake lever construction including a pivoted brake lever having trough-like body and handle portions, a bar slidably borne by said lever and having a rack portion within and extending lengthwise of the trough-like body of the lever, a trough-like actuating member pivoted to said



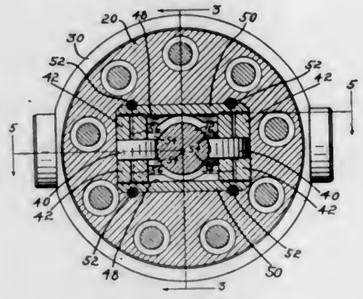
lever and closing the trough-like handle portion of the lever, and a detent operatively connected with said actuating member and movable into and out of latching engagement with said rack by rocking movement of said member.

2,157,851
PROTECTIVE ARRANGEMENT FOR ELECTRIC VALVE CONVERTING SYSTEMS
Claus Fröhmer, Berlin-Siemensstadt, Germany, assignor to General Electric Company, a corporation of New York
Application July 17, 1936, Serial No. 91,194
In Germany July 27, 1935
9 Claims. (Cl. 175—363)



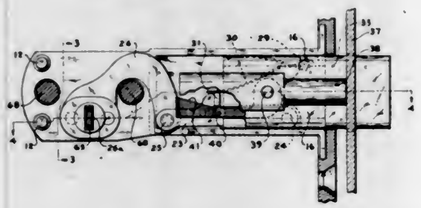
2. An electric valve converting system including a controlled electric discharge valve, means for periodically rendering conductive said valve, said means supplying energy of a certain wave form, means responsive to abnormal conditions in said system for changing the wave form of the energy supplied by said first means thereby to reduce the power output of said valve, and means for gradually changing said wave form to said first wave form whereby said valve output gradually returns to a normal value.

2,157,852
POWER TRANSMISSION
Christian E. Grosser, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application January 8, 1937, Serial No. 119,608
4 Claims. (Cl. 64—22)



1. In a fluid pressure energy translating device of the type having an inclined plate, a drive shaft, and a universal joint connected therebetween the combination of a pair of laterally extending wings formed on the shaft having oppositely facing flat surfaces, segmental blocks slidable on the flat surfaces of each wing and arranged to have their outer surfaces lie in a common cylindrical surface, cylindrical recesses formed in the inclined plate for receiving said segmental blocks, and means forming a lubricant passage through each block from its flat surface to its cylindrical surface, said blocks being segments of less than a half cylinder whereby drag along their flat surfaces causes the blocks to tilt and form a wedge of lubricant under pressure for transmittal to the cylindrical surfaces.

2,157,853
DEADLOCKING LATCH
Frederic K. Heyer, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application June 17, 1936, Serial No. 85,742
14 Claims. (Cl. 292—167)

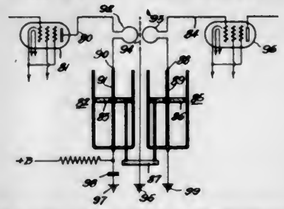


1. In a latch of the class described, a spring pressed latch bolt, means for retracting said latch bolt, said retracting means and latch bolt assuming a dead center relation to deadlock said latch bolt when said latch bolt is projected by its spring, an auxiliary bolt, and means whereby said auxiliary bolt maintains said retracting means and latch bolt out of dead center relation to permit unlatching movement of said latch bolt when it contacts a strike.

2,157,854
COMPOSITION OF MATTER USEFUL FOR MOTHPROOFING
David W. Jayne, Jr., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 2, 1936, Serial No. 113,825
11 Claims. (Cl. 167—37)

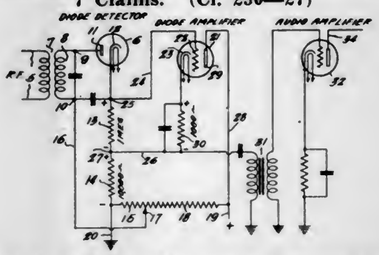
1. A composition of matter useful for mothproofing comprising a solution of a guanidine salt in an organic solvent and a substance which has the effect of increasing the solubility of said salt in said solvent in which the substance is chosen from the group consisting of secondary butyl alcohol and an alkyl ether of ethylene glycol.

2,157,855
TUNING SYSTEM FOR ULTRA-HIGH-FREQUENCY RADIO APPARATUS
Winfield R. Koch, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1936, Serial No. 88,165
15 Claims. (Cl. 178—44)



15. In a signal system, a transmission line including a pair of concentric conductors connected together at one of their ends, and an insulation body movable along and between said conductors to provide a movable capacitive reactance across the line for variably tuning said system, whereby movable contacts and conductors are eliminated.

2,157,856
DIODE RECTIFIER
Winfield R. Koch, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1936, Serial No. 113,474
7 Claims. (Cl. 250—27)



1. In a diode rectifier circuit, the combination with a diode rectifier device, of means providing an output impedance therefor, and means for maintaining the signal output potential across said impedance below a predetermined value in response to variable signal energy applied to said circuit, said means comprising a source of biasing potential providing a positive potential on the anode of the diode rectifier device with respect to a fixed reference point on said circuit and a variable source of positive

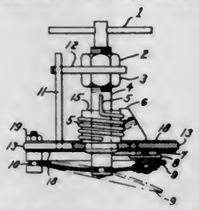
biasing potential for the cathode with respect to said fixed point on said circuit having connection with the cathode through the diode output impedance, said variable source providing an initial biasing potential substantially equal to the first named potential, and means responsive to an increase in signal strength to cause said variable source to raise the cathode to a positive potential with respect to said fixed point and the anode.

2,157,857

THERMOSTAT

Paul R. Lee, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 23, 1936, Serial No. 102,059
27 Claims. (Cl. 200—138)



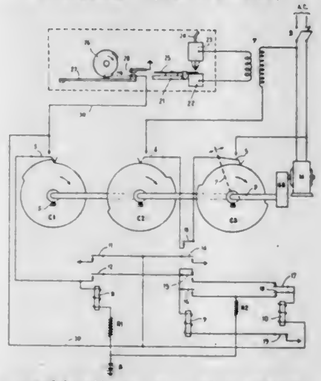
1. In combination with a bimetallic circuit-controlling device, a shaft attached thereto, and a supporting base therefor, a stop-plate attached to said base, a slot of irregular shape cut in said stop-plate, a rotatable finger attached to said shaft, and means comprising the engagement of said finger within said slot on said stop-plate for controlling the operation of said device, and means for manually operating said device.

2,157,858

SYNCHRONOUS CIRCUIT CONTROLLING APPARATUS

Merton R. Miller, Evanston, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application November 21, 1936, Serial No. 112,109
5 Claims. (Cl. 175—373)



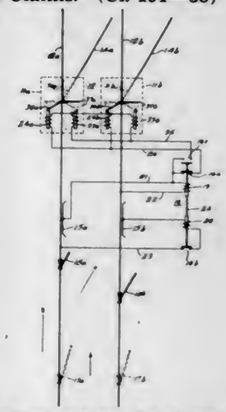
1. In combination, an alternating current power line, a branch circuit supplied from said line at intervals, a switch adapted to be closed when the branch circuit is to be used, a synchronous motor driven from said line, cams driven by said motor, contactors controlled by said cams, included in said branch circuit in series, one cam being adjusted to close at zero voltage and the other being adapted to break at zero current, relay mechanism, and means including said switch and another cam driven by said motor for causing said relay mechanism to place the said branch circuit under control of said first mentioned cams during one revolution thereof.

2,157,859

CONTROL SYSTEM FOR TROLLEY FROGS

Graham L. Moses, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 26, 1936, Serial No. 97,941
8 Claims. (Cl. 191—38)



1. In a switching system for a pair of current collectors mounted on a vehicle, a pair of main trolley wires of opposite polarity and a branch wire for each main wire, a trolley frog at the intersection of each main and branch wire having a movable tongue for guiding a current collector on the vehicle either along the main wire or on to the branch wire depending on the position of the said movable tongue, means including a pair of operating coils associated with each frog for actuating its tongue in opposite directions, a single contact device located adjacent each main wire on the approach side of each frog so as to be electrically connected to its respective associated trolley wire during the passage of one of said current collectors therealong, and a relay selectively controlled by the engagement of the current collectors on the vehicle with the said contact devices dependent upon whether the current collectors both engage the contact devices at the same time or one in advance of the other and cooperative with one of said contact devices for selectively energizing the operating coils of the frogs, said order of engagement of the current collectors with the contact devices being dependent upon the angular position of the vehicle with respect to the main trolley wires.

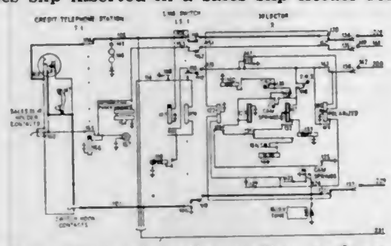
2,157,860

SIGNALING SYSTEM

Martin L. Nelson, Park Ridge, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application December 23, 1936, Serial No. 117,261
9 Claims. (Cl. 179—2)

1. In a combined telephone and signaling system, a plurality of originating stations, a central station, a plurality of receiving stations located at said central station, means operable at one of said originating stations to establish an intercommunicating connection between said originating station and any desired receiving station, a sales slip inserted in a sales slip holder forming



a part of said originating station, and means at a receiving station for placing an indication upon said sales slip and for bringing about the release of said connection.

2,157,861

PARASITICIDAL COMPOSITIONS

Alexander A. Nikitin, Newark, and James F. Adams, Wilmington, Del., assignors to Walter C. O'Kane, Durham, N. H., and Paul Moore, Washington, D. C., as trustees of Crop Protection Institute, Washington, D. C., an association

No Drawing. Application September 19, 1936, Serial No. 101,674
16 Claims. (Cl. 167—16)

1. A parasiticidal composition containing a copper zeolite including the anion of a polybasic acid.

9. A parasiticidal composition containing a copper fungicide and a phosphate.

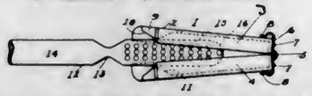
12. The method of producing fungicidal materials which comprises forming a copper zeolite in the presence of a soluble salt of a polybasic acid containing replaceable hydrogen.

2,157,862

TOOTH BRUSH RETAINER

Benjamin Oshman and Joseph Oshman, New York, N. Y.

Application July 24, 1936, Serial No. 92,364
Renewed October 10, 1938
3 Claims. (Cl. 206—15.1)



1. A tooth brush retainer having the combination of a receptacle adapted to receive the brush head when it is moved thereinto longitudinally, said receptacle consisting of two elongated severable parts, a hinge securing the ends of said parts whereby they are swingable transversely of each other about said hinge toward and away from each other, a spring normally drawing said parts to each other, said parts having cammed portions at their opposite ends adapted to be actuated by the end of the brush to spread said parts apart to permit insertion of the brush-head thereinto, and said brush spreading said parts apart during its removal from the receptacle.

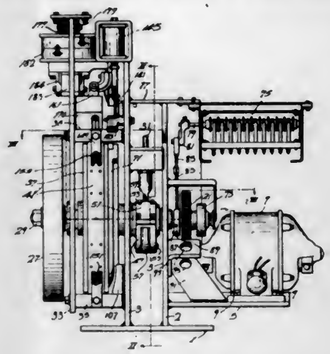
2,157,863

CONTROL APPARATUS

Joseph W. Ow, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 26, 1936, Serial No. 97,936
22 Claims. (Cl. 200—92)

1. In a switch operating mechanism, an actuating member for moving the switch to an open or closed circuit position, a shaft, a relatively heavy mass rotatable with said shaft, means for driving said shaft, a differential gear train including a rotating member driven by said shaft and



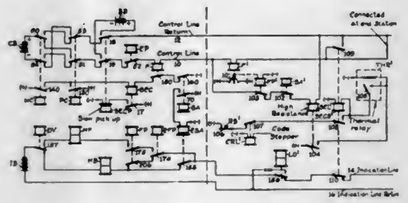
a main gear member connected to said actuating member, said rotating member when stopped causing said mass and main gear to move said actuating member to its switch closed position, and means for stopping rotation of said rotating member.

2,157,864

CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS

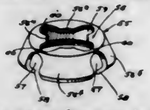
Robert M. Phinney, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application May 29, 1937, Serial No. 145,542
9 Claims. (Cl. 177—353)



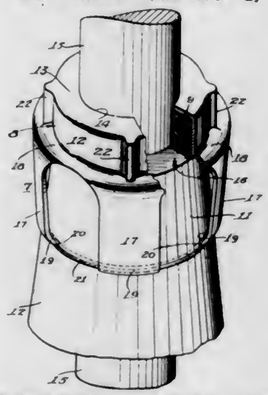
6. In a means for selectively sectionalizing a line circuit at a station connected thereto; a first relay in series with said line circuit and a second relay connected in multiple across said line circuit at said station, said second relay requiring a higher degree of energization for its operation than is required for said first relay; a source of control current; means for connecting said source of control current to said line circuit for energizing said line circuit and operating said first relay when and only when said line circuit is complete; auxiliary means effective to connect a booster source of current to said line if said first relay fails to operate when said control current is connected thereto, whereby said second relay is operated; means responsive to the operation of said second relay for sectionalizing said line circuit at said station; means responsive to said sectionalization of said line circuit for disconnecting said second relay from the line circuit; and other means acting on said auxiliary means for disconnecting said booster source of current from the line when said line circuit has been sectionalized.

2,157,865
PACKING DEVICE
Delmar D. Robertson, Lansdowne, and George L. Briggs, Bryn Mawr, Pa., assignors to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application July 2, 1935, Serial No. 29,448
4 Claims. (Cl. 123—188)



1. A struck up cage for use in retaining a packing in position in use and adapted to be assembled by a snap action, such cage having a substantially plane and partially cut out head to decrease the rigidity of the cage, and spaced legs extending to one side of said head and connected by relatively narrow portions of metal to increase the resilience of the cage, said legs terminating in inturned gripping portions.

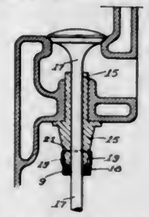
2,157,866
VALVE STEM PACKING
Delmar D. Robertson, Lansdowne, and George L. Briggs, Bryn Mawr, Pa., assignors to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application December 24, 1935, Serial No. 55,980
Renewed August 23, 1938
10 Claims. (Cl. 286—1)



4. A self-interlocking cage for operatively retaining a valve stem packing in position against an end of a valve stem guide, said cage including a chamber portion for receiving said packing, and a plurality of legs extending in a generally axial direction from said chamber portion and each terminating in an inturned claw-like flange portion provided with a cutting edge adapted to groove said guide upon rotation of said cage thereon, said flanges being inclined relative to the axis of said cage thereby to advance said cage axially on said guide as the depth of the groove is progressively increased.

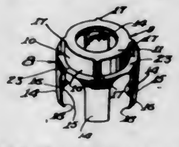
2,157,867
VALVE STEM PACKING
Delmar D. Robertson, Lansdowne, and George L. Briggs, Bryn Mawr, Pa., assignors to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application December 24, 1935, Serial No. 55,981
2 Claims. (Cl. 123—188)

1. A valve stem packing device for use between the valve stem guide and the rapidly reciprocating valve stem of an internal combustion engine, which are subject to high temperature and oil during the operation of the engine, for preventing the passage of oil-bearing gases between said valve stem guide and the rapidly reciprocating valve stem, said valve stem packing device including a generally annular sealing member containing a substantial proportion of



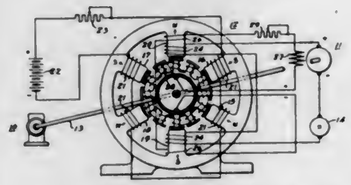
an oil-resistant synthetic organic elastic material adapted to surround the valve stem and to bear against an end of the valve guide, and a metallic cage surrounding said annular sealing member and having a portion for holding the sealing member against the end of the guide, another portion interlockingly engageable with the guide, and an intermediate portion connecting the two named portions, said intermediate portion being comparatively inextensible.

2,157,868
METHOD OF PACKING VALVE STEMS AND APPARATUS THEREFOR
Delmar D. Robertson, Lansdowne, and George L. Briggs, Bryn Mawr, Pa., assignors to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application December 24, 1935, Serial No. 55,982
6 Claims. (Cl. 29—84)



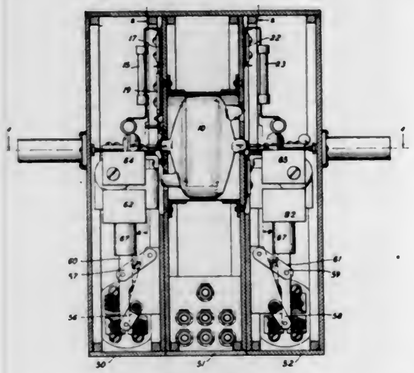
3. The method of applying to valve stem guides a generally annular packing and a packing retainer cage provided with a plurality of circumferentially distributed radially resilient spring fingers inclined with respect to the axis of said guide generally near their ends, and said spring fingers having combined locking and groove cutting means at their free ends, comprising centering said combined cage and groove cutting means with respect to the valve-stem guide with said generally annular packing intermediate the cage and the valve-stem guide, forcing the combined cage and the groove cutting means onto the valve-stem guide in a generally axial direction against the radial resiliency of said resilient spring fingers until the said packing is axially compressed between the cage and the end of the valve-stem guide, and turning said combined cage and groove cutting means while the same are in this last mentioned position to groove the exterior of the valve-stem guide, and further compressing said packing by further turning said cage until the groove in the valve-stem guide becomes of substantial depth whereby the inclined ends of the spring fingers develop a camming action to draw the cage axially of the guide and thereby generally permanently to lock said cage and resilient spring fingers onto said valve-stem guide with the annular packing compressively confined between said cage and the end of the valve-stem guide.

2,157,869
POWER SYSTEM
Gerald F. Smith, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 31, 1936, Serial No. 108,597
4 Claims. (Cl. 171—223)



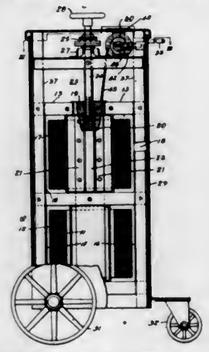
1. An exciter for energizing the field winding of an engine-driven generator for supplying current to a load circuit, said exciter being driven by the engine and provided with an armature winding connected in series-circuit relation with the field winding of the generator, a separately excited field winding, a differential field winding energized by the current in said generator load circuit, and a cumulative field winding connected in series-circuit relation with the exciter armature winding.

2,157,870
HIGH FREQUENCY CIRCUIT AND APPARATUS
Nelson E. Sowers, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 21, 1936, Serial No. 97,169
4 Claims. (Cl. 179—171)



1. In high frequency apparatus, a tuning condenser having a pair of fixed plates, an inductance coil mounted between and connected to said plates, a metallic shield adjacent said plates, a space discharge tube on the other side of said shield, having terminal pins projecting through apertures in said shield, one opposite each condenser plate, and connectors having a sliding fit over said pins for electrically connecting the pins to the respective condenser plates, said connectors being comparable in length to said pins.

2,157,871
MOVABLE CORE ALTERNATING-CURRENT ARC WELDER
Emil F. Steinert, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 21, 1937, Serial No. 121,581
12 Claims. (Cl. 171—119)



1. The combination in a power unit of a plurality of transformer windings, a fixed current limiting reactance winding disposed in coaxial relation with said transformer windings, a unitary magnetic core disposed to provide a plurality of closed magnetic circuits for the transformer windings and a relatively high reluctance magnetic circuit about the reactance winding, and means including an adjustable core movable to vary the reluctance of the magnetic path within the reactance winding.

2,157,872
BINDER
Emory A. Trussell, Milwaukee, Wis.
Application June 26, 1936, Serial No. 87,415
7 Claims. (Cl. 281—25)



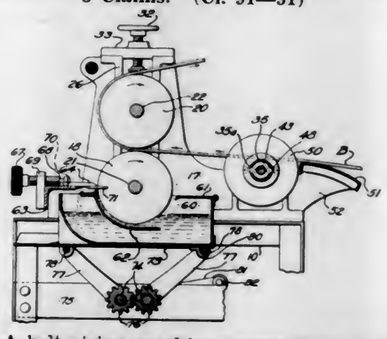
1. A binding device comprising a back member having sheet-holding ring-forming fingers integrally formed thereon along one edge, and having recesses to receive and laterally position the free ends of said fingers, the opposite sides of said recesses confining said finger ends against movement longitudinally of said back member.

2,157,873
PROCESS FOR EXTREME PRESSURE LUBRICANTS
Adrianus Johannes van Peski and Franz Rudolf Moser, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 14, 1936, Serial No. 110,930. In the Netherlands December 2, 1935
2 Claims. (Cl. 87—9)

1. An extreme pressure lubricant comprising a predominant quantity of a mineral lubricating oil, an organic compound having extreme pressure properties containing at least one of the elements of the group consisting of phosphorus,

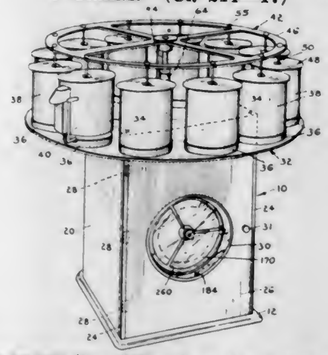
sulfur and chlorine, and a small quantity of an alkenyl succinic acid having at least 10 carbon atoms.

2,157,874
MACHINE FOR SIZING LEATHER BELTS
James A. Webb, Buffalo, N. Y., assignor to J. A. Webb Belting Co., Inc., Buffalo, N. Y.
Application February 10, 1937, Serial No 125,104
3 Claims. (Cl. 91—51)



3. A belt sizing machine comprising superimposed rolls adapted to receive a web of belting material therebetween, means for applying sizing liquid to the lower roll, drive means for driving the rolls in the same direction of rotation, said upper roll being formed with a friction surface to engage and draw the web between the rolls, means on the entrant side of the rolls for guiding the belting web, and rack means on the same side of the rolls for receiving the sized web for drying, said web partially enwrapping said upper roll in being directed therefrom to said rack.

2,157,875
AUTOMATIC IMMERSION APPARATUS
Edwin C. Weiskopf, New York, N. Y., assignor to Harry Cohen, New York, N. Y.
Application November 26, 1937, Serial No. 176,768
9 Claims. (Cl. 214—17)



1. In apparatus of the class described comprising a plurality of receptacles, a rotatable and longitudinally movable shaft, a holder mounted for movement by said shaft into and out of said receptacles in succession, means for intermittently moving said shaft longitudinally and rotatably in timed relation, and an electric motor for actuating said means, means including a rotary timing disk and switch mechanisms operable under the control of said disk for controlling the energization of said motor whereby to actuate said means at predetermined time intervals, said timing disk having circumferentially spaced notches in its peripheral edge portion, one of said switch mechanisms including a movable arm having a part engageable with said disk at its peripheral edge and in said notches, said arm being biased for movement to engage said part thereof with said disk, and means rotatable with said disk for moving said part of the arm to retracted position out of engagement with said disk.

2,157,876
POLYAZO DYESTUFFS
Hermann Winkeler, Ludwigshafen-on-the-Rhine, and Albert Petz, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 31, 1938, Serial No. 227,848. In Germany February 20, 1937
5 Claims. (Cl. 260—167)

1. Tetrakisazo dyestuffs corresponding to the general formula

$$[X{-}N{=}N{-}Y{-}N{=}N{-}Z{-}NH{-}]_2{=}CO$$

containing at least two sulfonic acid groups wherein X stands for the radicle of a benzoylaminosalicylic acid, wherein Y stands for the residue of an aromatic middle component selected from the benzene and naphthalene series and wherein Z—NH— stands for the radicle of a monocyclic amino compound of the benzene series coupled in para-position to the NH-group shown.

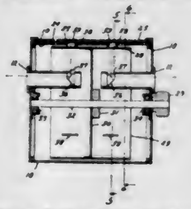
2,157,877
POLYAZO DYESTUFFS
Hermann Winkeler, Ludwigshafen-on-the-Rhine, and Albert Petz, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 31, 1938, Serial No. 227,849. In Germany February 24, 1937
5 Claims. (Cl. 260—175)

1. Disazo dyestuffs corresponding to the general formula:

$$[R{-}NH{-}CO{-}R_1{-}N{=}N{-}R_2{-}NH{-}]_2{=}CO$$

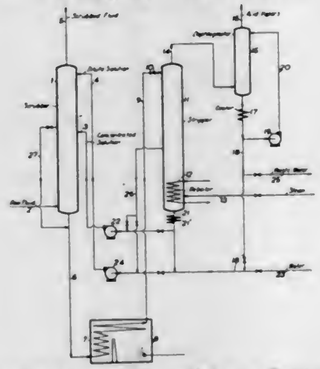
wherein R stands for the radicle of a sulfosalicylic acid in which the carboxylic group is in meta-position to the NH-group shown, wherein R_1 stands for a phenyl radicle, and wherein R_2—NH—stands for the radicle of an amine capable of coupling with diazo compounds selected from the group consisting of amines containing the amino group directly connected to a phenyl nucleus and aminophenylpyrazolones.

2,157,878
SYNCHRONIZATION TESTING DEVICE
Robert E. Worstell, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application January 2, 1937, Serial No. 118,734
4 Claims. (Cl. 234—36)



1. In a device of the type described, a cylindrical housing, a rotatable cylindrical drum journaled in the enclosing end walls of said housing with its axis coincident with the axis of said housing, said drum having spaced axially extending and angularly aligned slits in its surface, means in said hosing for holding a sensitized film adjacent to the outer surface of said drum, a tube extending axially inward within said drum from an opening in each end wall of said housing, and reflecting means mounted in each of said tubes at a position laterally opposite one of said slits in said drum and adapted to reflect through said slit a light beam entering its respective tube.

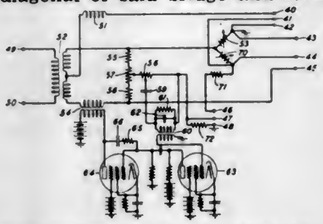
2,157,879
PURIFICATION AND SEPARATION OF GASEOUS MIXTURES
Ernest W. Zublin, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 14, 1937, Serial No. 159,027
10 Claims. (Cl. 23—3)



1. In the process of purifying a fluid from H_2S and an alogous acidic impurities which comprises scrubbing the flowing fluid with an aqueous solution of an alkaline absorbent for the acidic impurities capable of activation by contact with a stripping medium, to produce a fat solution containing impurities, separating the fluid from the fat solution, regenerating the latter by contact with a stripping medium to drive off absorbed impurities and recirculating the regenerated solution containing residual acidic impurities for further scrubbing the fluid, the improvement comprising dividing the regenerated solution into at least two portions, diluting at least one of the said portions with water to produce solutions of different concentrations of absorbent, resulting dilute solutions having ratios of acidic impurities to absorbent not substantially greater than those of the more concentrated solutions and scrubbing said fluid with said solutions in the order of increasing dilution.

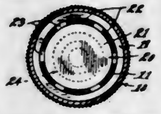
2,157,880
RECORDING SYSTEM
Walter J. Albersheim, Great Neck, and William J. Sette, Jackson Heights, Long Island, N. Y., assignors to Electrical Research Products, Inc., New York, N. Y., a corporation of Delaware
Application December 3, 1937, Serial No. 177,862
In Great Britain January 22, 1937
21 Claims. (Cl. 179—100.3)

1. In a recording system, a light valve, a plurality of resistors forming a balanced bridge including said light valve as an arm, a source of modulated currents connected to one diagonal of said bridge, a feedback path connected to the other diagonal of said bridge and feeding back



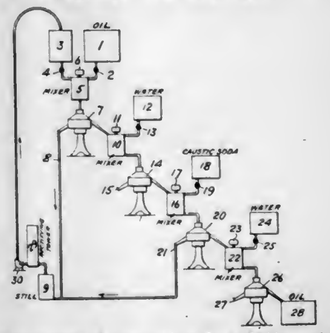
the electromotive force generated by the motion of the movable element of said light valve to said source of modulated currents whereby the response of said light valve is modified.

2,157,881
VALVE MEANS
Alfred C. Andreasen, Oak Park, Ill.
Application February 9, 1938, Serial No. 189,629
19 Claims. (Cl. 251—115)



1. In valve means, a valve housing, a valve for said housing, a conduit for said housing adapted to bend and means operative by the bending of the conduit for opening the valve, said means including a universal joint and a rod rigid with a section of the joint to move relative to the valve and conduit to a certain extent and with the conduit thereafter to a certain extent.

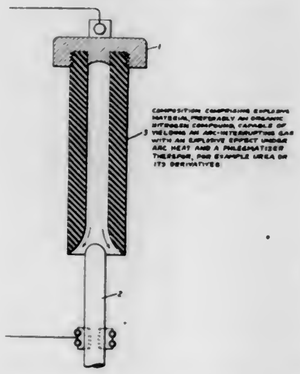
2,157,882
PROCESS FOR PURIFYING VEGETABLE AND ANIMAL OILS
Daniel Irving Ashworth, Wappingers Falls, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application August 4, 1937, Serial No. 157,242
5 Claims. (Cl. 260—425)



1. The process of removing free fatty acids from vegetable and animal oils and improving the color, which includes mixing with the oil an alkylolamine, separating from the oil the major portion of the reaction products thereby formed together with any uncombined alkylolamine, mixing with the thus partly purified oil a dilute solution of caustic alkali, and separating from the oil the reaction products together with any remain-

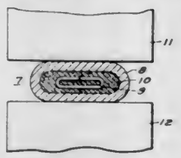
ing reagent, thereby producing a refined oil without cloudy appearance and substantially free of acids and which will not substantially deteriorate on standing.

2,157,883
ELECTRIC CIRCUIT INTERRUPTER
Rudolf Auerbach, Dahlewitz Hoppegarten, and Hermann Burmeister, Berlin-Spandau, Germany, assignors to General Electric Company, a corporation of New York
Application April 7, 1938, Serial No. 200,770
In Germany April 7, 1937
12 Claims. (Cl. 200—149)



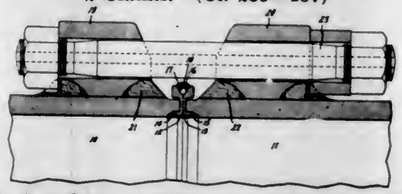
1. An electric circuit interrupter comprising means for forming an arc, and an insulating structure disposed adjacent and in confining relation to said arc, the walls of said structure in proximity to said arc being surfaced with a composition comprising an organic nitrogen compound selected from the class consisting of cellulose nitrate and nitrotoluene, and a phlegmatizer therefor.

2,157,884
ELECTRIC HEATING ELEMENT
Christian B. Backer, Ottawa, Ontario, Canada
Application January 16, 1936, Serial No. 59,391
In Canada May 21, 1935
8 Claims. (Cl. 201—64)



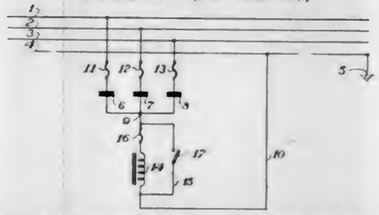
1. The method of making a tubular heating element comprising the steps of disposing a resistance member and moisture-containing material comprising a magnesium oxide compound surrounding said member within a metal tube or enclosing sheath, heating said material to dehydrate it to a considerable degree and initially deforming said sheath to compact said material around said resistance member and close any cracks formed therein by such dehydration, the volume reduction of said material being 15–25%, further heating said material to additionally dehydrate it and further deforming said sheath to additionally compact said material.

2,157,885
JOINT FOR PIPES AND OTHER METAL MEMBERS
Richard William Bailey, Hale, England, assignor to General Electric Company, a corporation of New York
Application September 13, 1937, Serial No. 163,692
In Great Britain September 14, 1936
2 Claims. (Cl. 285—137)



1. A welded structure comprising two metal members having a groove in their adjacent portions, a strip of metal conforming to the shape of and located in the bottom portion of the groove, and welding material filling the rest of the groove.

2,157,886
PREVENTION OF INDUCTIVE INTERFERENCE
William H. Cuttino, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1938, Serial No. 218,315
9 Claims. (Cl. 171—97)



9. In a system of electrical transmission or distribution having a plurality of phase conductors and a grounded neutral conductor, a star-connected capacitor bank, a current-responsive circuit interrupting device connected between each capacitor and one of the phase conductors, a connection between the neutral point of the capacitor bank and the neutral conductor, a saturable reactor in the neutral connection adapted to substantially prevent the flow of currents of harmonic frequencies, but to permit the flow of current of fundamental frequency in the event of failure of one of the capacitors, and means operable in response to current flow in the neutral connection for short-circuiting the reactor.

2,157,887
AIR AND WATER SERVICE STATION
Harold G. Davis, Denver, Colo.
Application October 28, 1937, Serial No. 171,504
5 Claims. (Cl. 299—77)

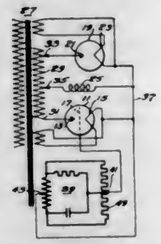
1. A combined air and water station for automobile servicing comprising: a vertical casing; a lid on said casing provided with hose passages; a pulley attached below said lid; an intake nipple located adjacent the top of said casing; a hose secured at its one extremity to said nipple and extending first downwardly into said casing to form a first loop, thence upwardly over said pulley, thence again downwardly to form a second loop, thence upwardly through the hose

opening in said lid; and a floating weight member suspended in said loops; said weight member having a groove of relatively large diameter for receiving said second hose loop and a groove of



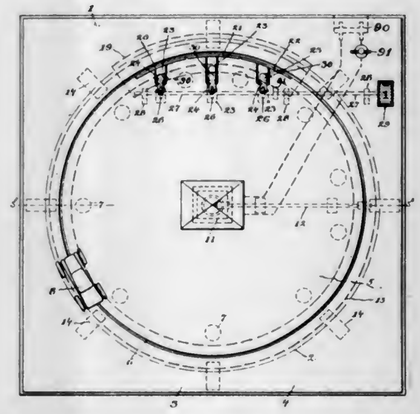
relatively small diameter for receiving said first hose loop, the diameters of said grooves being proportionate to the speed of travel of said loops as said hose is drawn from said casing.

2,157,888
ELECTRIC DISCHARGE APPARATUS
John W. Dawson, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 27, 1937, Serial No. 128,196
11 Claims. (Cl. 250—27)



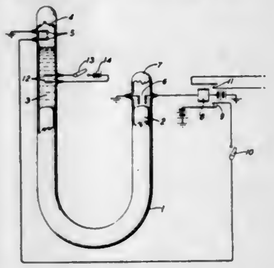
1. For use in supplying a reactive load the combination comprising a first electric discharge device having a control electrode and a plurality of principal electrodes, means for impressing a control potential between said control electrode and one of said principal electrodes, a second electric discharge device having in effect only a plurality of principal electrodes, a source of periodic potential having a plurality of terminal taps and an intermediate tap, means including said load for connecting the principal electrodes of said first discharge device between said intermediate tap and one of said terminal taps, means including said load for connecting the principal electrodes of said second discharge device between said intermediate tap and another terminal tap, the electrode of said second discharge device that is connected to said last-mentioned terminal tap being connected to said first-mentioned terminal tap only through said source of periodic potential, and means for varying the potential impressed between one of said terminal taps and said intermediate tap.

2,157,889
MECHANICAL TOY
Frank Albert Decker, New York, N. Y.
Application March 5, 1935, Serial No. 9,464
7 Claims. (Cl. 104—147)



1. In a mechanical toy, a chambered base, an endless slot formed in the upper surface of the base, a rim-supported driving member mounted in the base chamber in line with the slot, vehicles movable independent of each other on the roadway formed by the upper surface of the base, and a self-engaging device on each vehicle for connecting the vehicle through the slot with the driving member when the vehicle is placed in position on the roadway, the said device being self-disengaging from the driving member as the vehicle is removed from any point in the roadway.

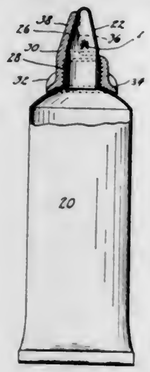
2,157,890
SWITCHING DEVICE
Joseph W. Dehn, Great Neck, and Oscar Myers, Mount Vernon, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 16, 1937, Serial No. 153,898
6 Claims. (Cl. 175—320)



1. An electric switch comprising a circuit and means for closing said circuit for a short period at fixed intervals, said means including a closed glass vessel containing a solution for producing an explosive gas as an electrolytic effect and a mercury column, and circuit means for causing a certain quantity of said gas to be produced in said vessel by said solution, said vessel being arranged so that said gas causes a certain movement of the mercury column and another circuit means controlled by said mercury column when it has moved

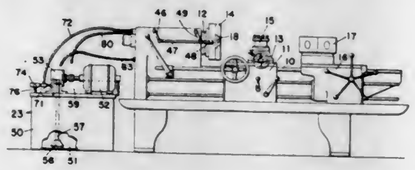
a fixed distance to cause the explosion of said gas and to colse said first-mentioned circuit for a short period.

2,157,891
COLLAPSIBLE TUBULAR CONTAINER
Edward C. Godfrey, Detroit, Mich.
Application November 22, 1937, Serial No. 175,849
22 Claims. (Cl. 221—60)



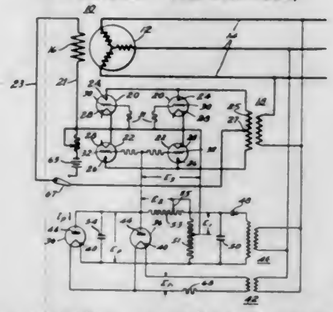
4. In combination, a collapsible tube including a threaded neck, a substantially conical dome projecting from said neck having a dispensing aperture through the side thereof, and closure means threaded on the said neck comprising a threaded collar and a semi-frusto conical finger projecting thereabove adapted to engage said conical dome and seal the said dispensing aperture when turned into engagement with the said conical dome.

2,157,892
TRANSMISSION AND CONTROL
Louis Edward Godfriaux, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application March 12, 1937, Serial No. 130,524
10 Claims. (Cl. 82—28)



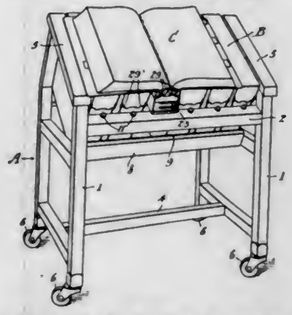
1. In a pressure fluid coupling the combination of a rotatable part and a non-rotatable part, pressure fluid channels respectively in different of said parts, one of said parts providing a plurality of annular axially spaced co-axial grooves, said grooves having angularly disposed sides to effect a relatively narrow bottom groove portion, the other of said parts providing a plurality of ring portions closely rotatably fitted respectively between the sides of different of said grooves and conforming to the angle thereof, and a passageway connecting between said channels at a point axially between the end rings of said plurality of rings, said non-rotatable part comprising a plurality of portions separably joined along abutted surfaces substantially in a plane coinciding with the axis of said rotatable part.

2,157,893
REGULATING SYSTEM
Finn H. Gulliksen, Wilkinsburg, and John W. Dawson, East McKeesport, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application November 3, 1934, Serial No. 751,361. Divided and this application May 22, 1937, Serial No. 144,172
3 Claims. (Cl. 175—363)



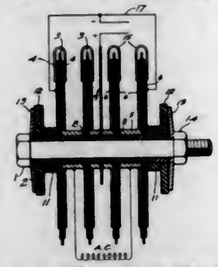
2. In a system comprising an alternating-current power circuit, an inductive load circuit, and means for supplying a unidirectional current from said power circuit to said load circuit comprising a pair of rectifiers connected between said circuits to effect full-wave rectification, of control means for controlling the conductivity of one of said rectifiers only, the conductivity of the other rectifier being controlled only by the inductive nature of the load circuit.

2,157,894
BOOK RACK
Walter E. Haskin, Flushing, N. Y., assignor to Pressed & Welded Steel Products Company, Inc., New York, N. Y., a corporation of New York
Application October 4, 1935, Serial No. 43,629
3 Claims. (Cl. 129—1)



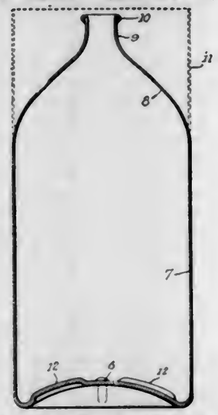
2. A book rack, including a book holder, a book with flanged ends projecting beyond the body of the back, a pair of notches positioned in each of the said flanged ends, inwardly projecting stationary coupling means on one end of the book holder engaging the said notches at one end of the book, and movable inwardly projecting coupling means on the other end of the book holder engaging the said notches at the other end of the book, said notches having a limited movement in the coupling means to permit opening and closing of the book without disengagement from the book holder.

2,157,895
CONTACT ASSEMBLY FOR DOUBLE-SURFACED RECTIFIER ELEMENTS
Carl C. Hein, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 25, 1938, Serial No. 226,646
4 Claims. (Cl. 175—366)



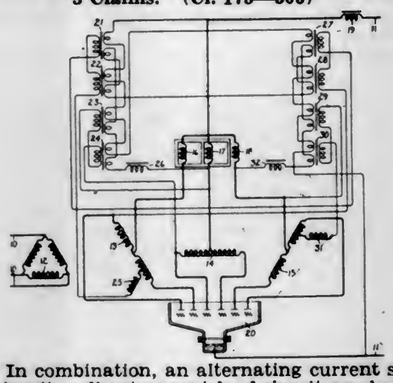
3. A contact rectifier assembly comprising a plurality of rectifier units, each rectifier unit comprising a circular copper plate having its opposite faces oxidized except for a narrow rim of bare copper surrounding a hole therein, a metallic sheet in contact with each oxidized face of said copper plate except for an insulating rim surrounding said rim of bare copper, the respective said rectifier units being mounted on an insulating tube which passes through said hole of each of said rectifier units, a conductive metal sleeve surrounding said insulating tube between each pair of rectifier units and extending from the metallic sheet of one rectifier unit to the bare copper rim of the adjacent rectifier unit, means for exerting pressure parallel to the axis of said insulating tube to maintain said rectifier units in position thereon, and means for making an electrical connection to the metal ring between the middle pair of rectifier units and to the metallic sheet of each end rectifier unit.

2,157,896
METAL BOTTLE
Roy J. Held, Freeport, Ill.
Application January 6, 1936, Serial No. 57,679
1 Claim. (Cl. 220—1)



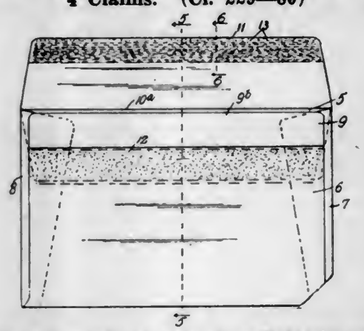
As a new article of manufacture, a bottle of a unitary piece of metal, non-corrodible to or by its contents, having a bottom, side walls, a contracted breast, and a neck having a beaded mouth, the edge of the metal forming the bead having embedded fluid tight engagement with the adjacent wall of said neck.

2,157,897
ELECTRIC VALVE CONVERTING SYSTEM
Carl C. Herskind, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 1, 1938, Serial No. 217,092
5 Claims. (Cl. 175—363)



1. In combination, an alternating current supply circuit, a direct current load circuit, an electric valve converting means interconnecting said circuits, said valve means including a plurality of polyphase networks each provided with a neutral point, a plurality of inductive windings interconnecting the neutral points of said networks, said inductive windings having a common magnetic core structure, and a plurality of frequency doubling means energized from different points on said polyphase networks and each arranged to supply excitation current to a different one of said inductive windings.

2,157,898
SELF-SEALING ENVELOPE
William Hohwart, New York, N. Y.
Application March 17, 1936, Serial No. 69,255
4 Claims. (Cl. 229—80)



3. In an envelope, a front wall having a normally downturned sealing flap at its upper edge provided on its undersurface with an area of dry sealing adhesive, a rear envelope wall having an area of dry sealing adhesive on the outer surface thereof located so as to cooperatively interseal with the adhesive area of the front wall flap, and a normally downturned flap carried by the rear wall adapted to normally cover the adhesive

area thereof and adapted to be swung to an out-of-the-way position to expose said adhesive area for cooperative sealing with the adhesive area of the front wall flap, the free edge of said rear wall flap projecting beyond the front wall flap to serve as a means for facilitating the simultaneous raising of both flaps from their normal downturned position.

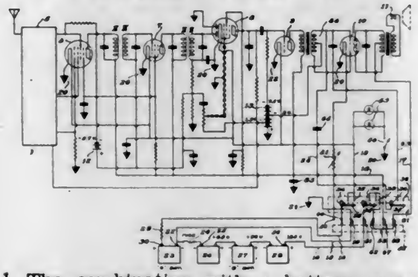
2,157,899

BATTERY-OPERATED RECEIVER

Paul F. G. Holst, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 19, 1937, Serial No. 169,791

6 Claims. (Cl. 250—27)



1. The combination with a battery operated radio receiver, of a switch in said receiver controlling the cathode heating current thereto, means providing a second switch connected with and conjointly operable with the first named switch having external circuit terminals, means providing high voltage and low voltage anode supply circuits for said receiver having external terminals, means providing plug connections with said first and second named terminals whereby said circuits are energized through said last named switch, and means providing additional plug connections with said terminals for connecting said second switch and said anode circuits with separate circuits external to said receiver.

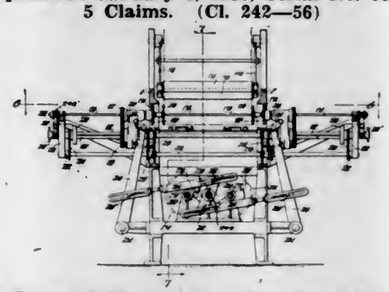
2,157,900

FOLD-MAKING MACHINE

Leonard Hopkins, Holyoke, Mass.

Application January 8, 1936, Serial No. 58,081

5 Claims. (Cl. 242—56)



5. In a machine of the class described comprising in combination, a support, a rotatable member, winding members extending axially therefrom for winding a web of material into a fold, a jogger reciprocable relative to said winding members for engaging an edge of a fold, a drive shaft, engageable connections between said shaft and rotatable member, and engageable means between said jogger and drive shaft whereby the latter operates the former.

2,157,901

COATING COMPOSITIONS AND PROCESS OF PREPARING SAME

Robert T. Hucks, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application February 10, 1933, Serial No. 656,153. Divided and this application August 24, 1937, Serial No. 160,599

5 Claims. (Cl. 134—79)

1. A coating composition comprising a cellulose derivative and an iron ferro-cyanide blue pigment ground in the presence of a blown oil in amount sufficient to exhibit freedom from a reddish cast in the dry film and also characterized in that the blue pigment in the same composition but not ground in the presence of a blown oil would produce a reddish cast in the dry film.

2,157,902

IMPREGNATION OF METALS WITH SILICON

Harry K. Ihrig, Milwaukee, Wis., assignor to Globe Steel Tubes Co., Milwaukee, Wis., a corporation of Delaware

No Drawing. Application January 4, 1938, Serial No. 183,321

8 Claims. (Cl. 148—14)

1. In a method of treating metallic articles capable of impregnation with silicon which includes the steps of heating such articles to an elevated temperature and contacting them with siliconizing reagent formed by the action of chlorine or chloride vapor on silicon-supplying material of the group silicon carbide, silicon, and ferro-silicon, the step comprising providing oxidizing conditions and thereby producing a siliconized case having a low carbon content.

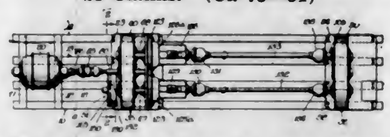
2,157,903

TORSION TESTING MACHINE

Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application February 15, 1936, Serial No. 64,035

23 Claims. (Cl. 73—51)



1. In a testing machine, a transmission line adapted to contain the unit to be tested between the ends thereof, means geared to the opposite ends of said transmission line, said means including springs for pre-loading said unit while providing for the rotation thereof, means including two relatively movable parts for introducing a determined amount of torsion through said springs into said line, and means for fixing said parts in position relative to one another so as to maintain the torsion exerted through said springs.

2,157,904

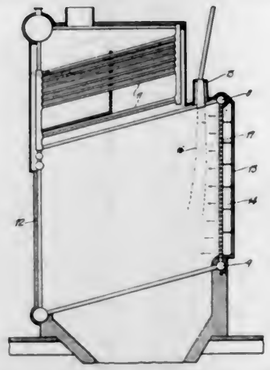
BOILER FURNACE WALL AND PART THEREFOR

John H. Lawrence, Bronxville, N. Y., assignor to Metropolitan Engineering Company, Brooklyn, N. Y., a corporation of New York

Application April 1, 1937, Serial No. 134,263

6 Claims. (Cl. 122—235)

1. A furnace for boilers and the like having nozzle burners and a wall along which the stream of fuel is directed, said wall comprising tubes in the circulating system of the boiler, said tubes being spaced apart and each of said tubes having a line of projections welded to it at separate points and extending toward the adjacent tubes, the spaces between the projections in line being in communication with a supply of air for combustion, whereby the air is admitted through a number of openings along the height of the wall and is fed gradually to the stream of fuel, the spacing of the tubes being comparatively great and each of said projections extending outwardly for a distance which is at least about twice as great as the dimension parallel to the axis of the tube so as to avoid production of internal strains and to permit such great width and tube-spacing without danger of burning off the ends of the projections.



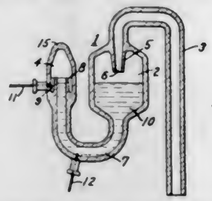
2,157,905

MANOMETER SWITCH

Peter L. Lenz, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 26, 1937, Serial No. 160,964

2 Claims. (Cl. 200—81)



1. A mercury contact device responsive to pressure variation comprising a pair of chambers, a U-shaped passage connecting said chambers, a quantity of mercury in each of said chambers and substantially filling said passage, one of said chambers having a conduit connected to the source of control pressure, said conduit having a tapered end portion extending into and opening adjacent the central portion of the chamber for preventing spilling of mercury into said conduit, said U-shaped passage extending into said second chamber and providing an upstanding partition for trapping a quantity of mercury in said second chamber, an electrical connection to said pool of trapped mercury, an electrical connection to the mercury in said U-shaped passage, said second chamber having a tapered dome-shaped top.

2,157,906

ELECTRIC FUSE

Karl August Lohausen, Oberschoneweide, Germany, assignor to General Electric Company, a corporation of New York

Application June 22, 1936, Serial No. 86,625. Renewed March 21, 1939. In Germany June 24, 1935

12 Claims. (Cl. 200—131)



1. In an enclosed fuse of the current limiting type, an elongated fusible conductor formed and arranged to attain required fusing temperature and dissipate initially throughout only a predetermined small portion of its length upon being subjected to a very large excess current and to attain required fusing temperature and dissipate thereafter progressively throughout a considerably greater portion of the remainder of the length of the conductor upon continuation of such large excess current, said conductor being formed and arranged also to have thermal characteristics effective upon subjection of the conductor to a relatively long continued small excess current to cause said second mentioned portion of the conductor to attain required fusing temperature and dissipate substantially simultaneously with said first mentioned portion of the conductor.

2,157,907

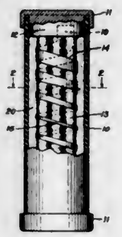
FUSE

Karl August Lohausen, Berlin-Oberschoneweide, Germany, assignor to General Electric Company, a corporation of New York

Application November 26, 1935, Serial No. 51,694

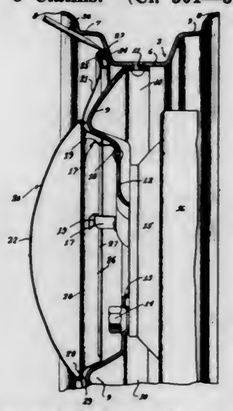
In Germany December 11, 1934

5 Claims. (Cl. 200—120)



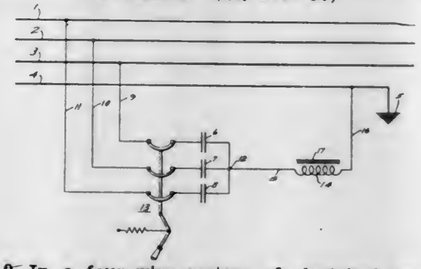
1. A high tension fuse of the current limiting type including in combination, a conductor adapted to dissipate throughout a fusible section of considerable length, as distinguished from dissipation only at a point of reduced cross-section, upon subjection of the fusible section to excess current of large magnitude, and an arc-quenching medium surrounding said fusible section and being of a form and composition capable, upon subjection of the fusible section to excess current of large magnitude, of exerting a current limiting action of such power as to cause voltage surges, said fusible section increasing in cross-section from a portion of reduced cross-section to a portion of relatively larger cross-section, thereby to insure progressive dissipation of said fusible section from said reduced portion to said larger portion with consequent progressive insertion of resistance into the current path upon subjection of the fusible section to excess current of large magnitude.

2,157,908
ORNAMENTAL WHEEL DISK STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application July 29, 1935, Serial No. 33,689
5 Claims. (Cl. 301—37)



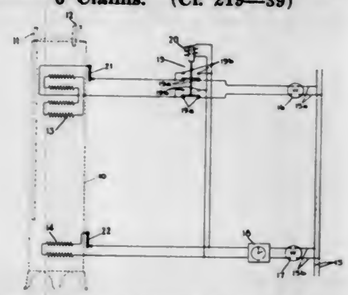
1. An ornamental wheel disk structure for disposition over the side surface of a vehicle wheel, including a pair of separate members one of which is designed to cover the central portion of the wheel and which is provided with an underturned margin, and the other of which is designed to cover an outer portion of the wheel, and securing means joining said underturned margin of said central member to an intermediate portion of said outer member so as to be concealed by the respective member, the inner marginal portion of said outer member being bent axially inwardly to form a wheel engaging fastening flange for said members.

2,157,909
PREVENTION OF INDUCTIVE INTERFERENCE
Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 17, 1937, Serial No. 180,405
9 Claims. (Cl. 171—97)



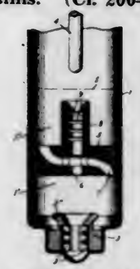
9. In a four-wire system of electrical transmission and distribution having three phase conductors and a grounded neutral conductor, a star-connected bank of capacitors, a normally closed, current-responsive circuit-interrupting device connected between said phase conductors and said capacitor bank, a connection between the neutral point of the capacitor bank and said neutral conductor and an iron-core reactor in said connection designed to saturate at about 50% of the normal phase-to-ground system voltage.

2,157,910
LIQUID HEATER
Francis H. McCormick, Dayton, Ohio, assignor to Edison General Electric Appliance Company, Inc., a corporation of New York
Application November 26, 1937, Serial No. 176,476
6 Claims. (Cl. 219—39)



5. A water heating system having a water storage tank, electric heating elements for applying heat to the upper and lower portions of said tank, high and low rate sources of electrical supply, and time interval switching mechanism operable to connect both of said heating elements with said low rate source during off-peak periods, and to connect the upper heating element only with said high rate source during on-peak periods.

2,157,911
ELECTRIC CIRCUIT BREAKER
Ezra B. Merriam, New Haven, Conn., assignor to General Electric Company, a corporation of New York
Application February 12, 1938, Serial No. 190,262
7 Claims. (Cl. 200—150)

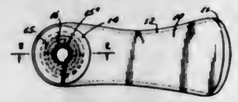


1. An electric circuit breaker comprising an explosion chamber containing oil, relatively movable contacts separable within said chamber, a baffle structure through which the arc is drawn by one of said contacts, said baffle structure forming also a passage extending substantially transversely of the arc path, said passage communicating with the region in which the arc is initially drawn and exhausting to a comparatively low pressure region, and means defining irregularities forming a substantially enclosed auxiliary oil reservoir closely adjacent that part of the arc path at one side of said transverse passage and arranged so that the arc builds up counterpressure in said part of the arc path after contact clearance for deflecting the oil blast through said transverse passage and directly across the arc.

2,157,912
HEEL CUSHION
Jacob Nabokin, New York, N. Y.
Application October 29, 1937, Serial No. 171,617
3 Claims. (Cl. 36—37)

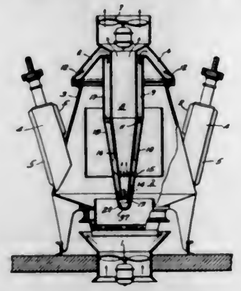
1. A heel cushion, an inner sole, an annular

sheet member secured along its outer edge on the inner face of said inner sole, and a conical spiral spring disposed between said sole and said annular sheet member and having its inner coil



within the compass of the central opening of said annular member, the inner turn of said conical spiral spring being exposed through the central opening of said annular sheet member.

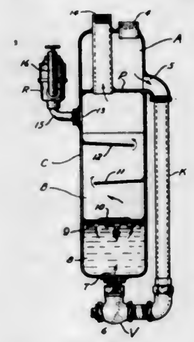
2,157,913
METALLIC VAPOR DISCHARGE DEVICE
Walter Nehls, Berlin-Haselhorst, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany
Application January 20, 1938, Serial No. 185,913
In Germany January 22, 1937
9 Claims. (Cl. 250—27.5)



1. A metal vapor arc-discharge device comprising a metallic vessel, a liquid metal cathode in the bottom of said vessel, an air cooler insert arranged in said vessel, said insert extending into proximity with said cathode, an air duct extending into said cooling insert, said duct extending in spaced relation to said cooling insert to produce a double passage, means for causing air flow through said double passage, said duct and said insert being closely spaced adjacent the end nearest the cathode to provide a restriction passage for increasing the air velocity nearest the cathode.

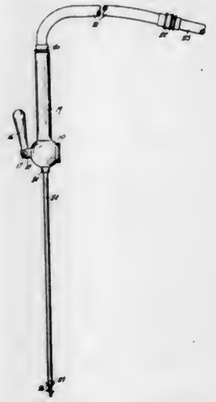
2,157,914
HYDRAULIC BACK PRESSURE ARRESTER
Charles Ness, Indianapolis, Ind., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application January 22, 1936, Serial No. 60,164
7 Claims. (Cl. 48—192)

6. A hydraulic back-pressure arrester comprising a casing having an upper compartment and a lower compartment adapted normally to hold a body of sealing liquid in its lower portion, the upper compartment having an inlet adjacent its upper end and an outlet adjacent its lower end, and the lower compartment having an inlet adjacent its lower end and an outlet adjacent its upper end; means connecting the outlet of the upper compartment and the inlet of the lower compartment for providing a passage between the compartments to permit a combustible gas normally to flow successively through the upper and lower compartments; means disposed in the lower compartment adjacent the normal level of the body of sealing liquid adapted to provide a plurality of small passages for the combustible gas immediately after passage through the body



of sealing liquid; and imperforate means disposed in the lower portion of the lower compartment adapted to prevent the direct vertical flow of the combustible gas through the body of liquid from the inlet of the lower compartment to the upper portion thereof.

2,157,915
WEED EXTRACTOR
Eric A. Olson, South Bend, Ind.
Application July 21, 1937, Serial No. 154,860
4 Claims. (Cl. 47—49)

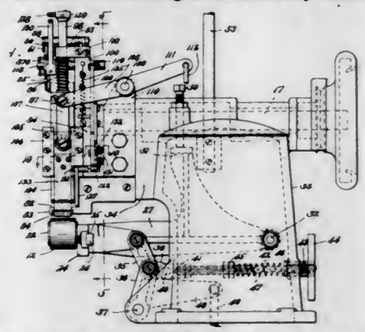


1. A weed extractor comprising a water line, a nozzle carried by said water line and adapted to be forced into the ground, and impaling members projecting laterally from the end portion of said nozzle.

2,157,916
TAPE APPLYING MACHINE
Walter P. Osgood, Malden, Mass.
Application April 2, 1937, Serial No. 134,566
17 Claims. (Cl. 12—51)

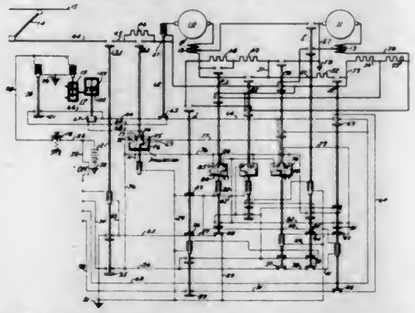
1. A tape-applying machine having, in combination, means for supporting the grain or finished face of the work, and means cooperating therewith for feeding the work, for bending the

flesh or unfinished face of the work concavely about an axis extending substantially normal to



the line of feed, and for applying tape to the bent face.

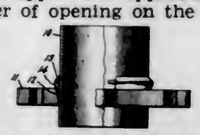
2,157,917
CONTROL SYSTEM
George R. Purifoy, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 24, 1937, Serial No. 176,236
4 Claims. (Cl. 172—179)



4. In a control system for vehicle motors, in combination, a plurality of accelerating switches, interlocking means actuated by said switches for controlling their sequence of operation, a relay responsive to the motor current for normally controlling the operation of said switches, a manually controlled relay for effecting the operation of said switches independently of said current responsive relay, electro-pneumatic means associated with the manually controlled relay but operating independently thereof for stopping the progression of the accelerating switches after each step of acceleration, and manually operable means for simultaneously energizing the electro-pneumatic means and the manually controlled relay.

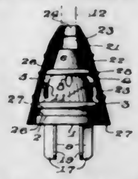
2,157,918
ART OF UNITING METALS
William K. Rankin, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application February 18, 1937, Serial No. 126,380
10 Claims. (Cl. 113—112)

1. An article of manufacture comprising a straight-surfaced metallic member adapted to be maintained in a vertical position, a relatively thick metallic collar encircling said member and closely fitting substantially at right angles thereto, the facing surfaces of said member and collar comprising copper, said collar having a slightly tapered passageway therethrough, said passageway having uncurved side walls and a diameter approximately that of the outside diameter of said metallic member but with a diameter of opening on the upper side appreciably in excess of the diameter of opening on the opposite side



thereby forming a recess between said collar and said metallic member, and a mass of solder filling said recess and rigidly uniting said collar to said metallic member, said solder consisting, by weight, of about 15 to 30 per cent cadmium and the remainder silver, copper and zinc so proportioned that the solder has a melting point of the order of about 635° C.

2,157,919
TWIN CONTACT PLUG
Frank L. Reese, Philadelphia, Pa.
Application April 5, 1937, Serial No. 135,017
4 Claims. (Cl. 173—361)

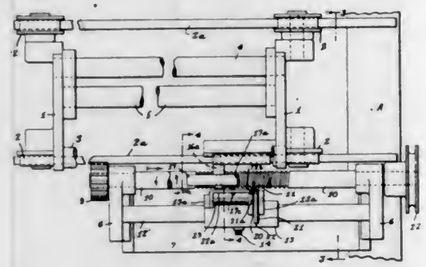


1. A contact plug, comprising a rearwardly tapering conical body member composed of resilient insulating material and provided with a circumferential channel formed between a pair of annular beadings having rearwardly directed curved surfaces, a contact element extending freely from the forward portion of said member and emerging rearwardly into said channel, a conduit extending from the rear of said body member into said channel at a point circumferentially spaced from the adjacent portion of said element, and an elastic sleeve having a conical bore throughout the major portion of its longitudinal extent and provided with a circumferential groove defined between walls that fit over and engage the opposite sides of said beadings, to enclose said channel and prevent the accidental separation of said sleeve from said member.

3. In a contact plug, a contact element comprising a single metallic ribbon, one end of which is twisted substantially ninety degrees with respect to the other end portion, and reversely bent into substantial parallelism therewith, to form an element of substantially T-shaped cross section, one edge of said twisted portion being slightly cut away, in order that the width of the remainder of said twisted portion plus the thickness of the opposite portion will substantially equal the width of said opposite portion.

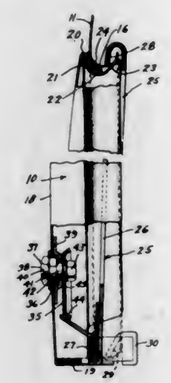
2,157,920
CLOTH GUIDING DEVICE
Charles G. Richardson, Springfield, Vt., assignor to Parks & Woolson Machine Company, Springfield, Vt., a corporation of Vermont
Application September 14, 1933, Serial No. 689,384
Renewed September 23, 1938
8 Claims. (Cl. 271—2.6)

1. A feeler mechanism for guiding a web of cloth against swerving and controlled by in and out movements of the cloth edge embracing a pawl, a pair of side by side pivotal feeler dogs capable of independent movements supported to lie on opposite sides of the desired line of travel of the edge of the cloth, one of said dogs being provided with a pawl engaging finger for re-



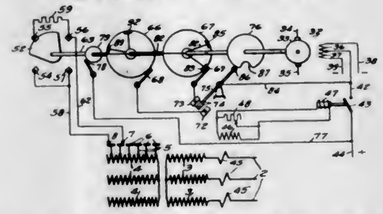
taining said pawl in neutral position when said dog is not engaged by the cloth, and acting to release the pawl for movement from neutral when neither dog is engaged by the cloth, a pawl and ratchet mechanism, the pawl of which is controlled by the feelers as aforesaid, and cloth guiding means shiftable by said ratchet and pawl to exercise guiding control over the cloth.

2,157,921
FENDER SKIRT MOUNTING
George W. Schatzman, Detroit, Mich., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 26, 1938, Serial No. 192,731
8 Claims. (Cl. 292—241)



1. A fender skirt mounting for detachably supporting a fender skirt in desired position on a vehicle fender over the wheel opening thereof, comprising an independent hanger loosely hung on said fender, said hanger including a supporting member upon which said skirt may rest, and a movable cam member on said skirt arranged to bear against said supporting member for effecting translational movement of said skirt with respect to said hanger, thereby to tightly clamp said skirt and said hanger on said fender.

2,157,922
TRANSFORMER
Max Schwaiger, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 24, 1938, Serial No. 215,552
In Germany July 10, 1937
4 Claims. (Cl. 171—119)



1. In a tap changing equipment for transformers, a transformer winding having a plurality of taps and a plurality of tap selecting switch contacts associated therewith for establishing selected points of connection between a line circuit conductor and a selected one of said taps, load circuit interrupting switches for interrupting the flow of load current through the tap selector switches during a tap changing operation prior to movement of a tap selector switch from one tap position to another and for establishing connection therethrough after movement to a new tap position, motive means for operating the tap changing mechanism from one tap position to another, and protective means responsive to a predetermined overload on the transformer for arresting operation of the last-named means during a tap changing operation.

2,157,923
MAKE-ALIVE ELECTRODE
Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 31, 1938, Serial No. 199,146
14 Claims. (Cl. 250—27.5)



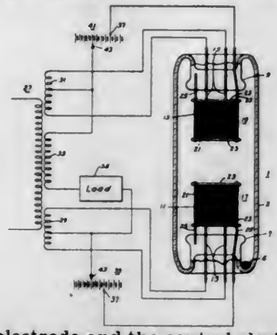
1. A make-alive electrode for an electric arc discharge device comprising a non-conducting stem portion, a covering of semi-conducting material on said stem and a conducting portion mounted over a portion of said stem.

2,157,924
ELECTRIC DISCHARGE DEVICE
Lloyd Smede, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 13, 1934, Serial No. 706,532
12 Claims. (Cl. 175—363)

1. An electric-discharge device comprising an evacuated container having a gaseous medium therein, a plurality of electrically independent electron emitting electrodes disposed in spaced relationship in said container and a metal mesh substantially completely surrounding each of said emitting electrodes.

10. In apparatus for supplying power to a load

in combination, an alternating-current source, a first electron-emitting electrode connected to one terminal of said source, a second electron-emitting electrode connected to another terminal of said source, a control electrode associated with each said electron-emitting electrode, means for impressing a potential between said first electron-



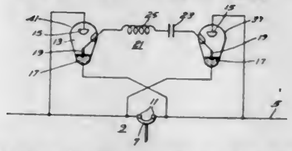
emitting electrode and the control electrode associated therewith to block flow of current from said first electron-emitting electrode and means for impressing a potential between said second electron-emitting electrode and the control electrode associated therewith to permit current flow from said second electron-emitting electrode.

2,157,925

ELECTRIC DISCHARGE APPARATUS

Ralph N. Stoddard, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 13, 1937, Serial No. 130,755
10 Claims. (Cl. 175—294)



1. Apparatus for interrupting the flow of current through a conductor comprising means to be actuated for producing an open gap in said conductor, a pair of separate sets of electrodes defining electric discharge paths connected in antiparallel across the position in said conductor where said gap is to be opened, the potential drop across the electrodes of each of said discharge paths when it is energized being substantially smaller than the potential drop across an arc produced across said gap when said means is actuated, and means common to both said discharge paths for initiating an arc in the one corresponding to the direction of flow of current in said conductor at the instant that said gap is opened.

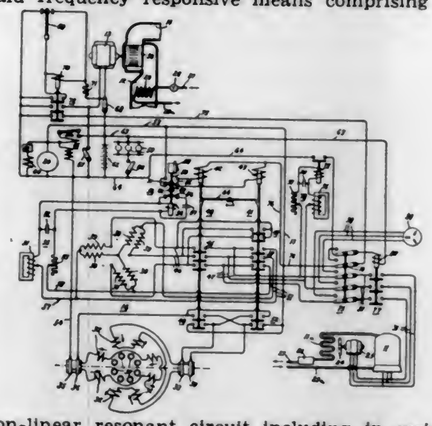
2,157,926

POWER SYSTEM AND CONTROL THEREFOR

Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 29, 1937, Serial No. 182,268
21 Claims. (Cl. 171—119)

21. A power system including an alternating current generator, a variable speed device arranged to drive said generator, said generator having a plurality of pairs of field poles, an alternating current motor, means for supplying to said motor current produced by said generator to energize said motor, and means responsive to the frequency of the current produced by said generator for changing the effective number of pairs of said field poles to vary the frequency of the current produced by said generator and for maintaining the range of speeds of said motor more narrow than the range of speeds of said device, said frequency responsive means comprising a



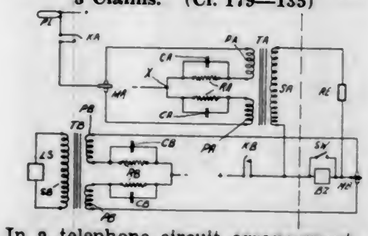
non-linear resonant circuit including in series relation a saturable inductance element and a capacitance element and electro-responsive means connected to be energized from said capacitance element, said pole changing means being operated by said electro-responsive means, means operated by said electro-responsive means for changing the effective value of said capacitance element, and means for maintaining said electro-responsive means in its operated position until the completion of the operation of said pole changing means.

2,157,927

CIRCUIT ARRANGEMENT FOR TELEPHONE SYSTEMS

George William Sutton, Merton Park, London, England, assignor to Siemens Brothers & Company Limited, London, England

Application November 9, 1935, Serial No. 49,054
In Great Britain November 12, 1934
3 Claims. (Cl. 179—135)



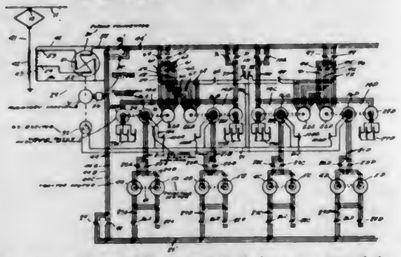
1. In a telephone circuit arrangement, a differential microphone comprising a diaphragm and a vibration responsive element on each side thereof, a transformer having two primary windings, two resistor elements, each of said resistor elements connected at one end to a series circuit comprising one of said primary windings and one of said vibration elements, a direct current source connected to the other end of said resistor elements and to the microphone diaphragm, said resistor elements preventing "breathing" action from taking place in said vibration elements due to the passage of the current therethrough, and a separate condenser connected directly in shunt of each resistor element to permit the passage of alternating current generated by the operation of said microphone, said condensers having a lower impedance than that of said resistor elements.

2,157,928

ELECTRIC LOCOMOTIVE

Allen M. Rossman, Wilmette, Ill.

Application December 26, 1935, Serial No. 56,146
19 Claims. (Cl. 172—274)



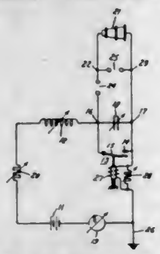
19. An adjustable speed drive, comprising in combination, a main induction machine having a primary winding and a secondary winding, an adjustable frequency machine having an armature winding, switching means for connecting said armature winding in series with said secondary winding in either direction of phase rotation, said adjustable frequency machine having a rotor member and a frame member, each of said members being rotatably mounted on bearings, a multi-speed squirrel cage machine coupled to one of said members, a wound rotor induction machine coupled to the other of said members, switching control means for controlling the speeds of each of said last named induction machines, a source of alternating current, and switching means for selectively either connecting said primary winding to said source or short circuiting said winding.

2,157,929

SURGE GENERATOR

Richard Tröger, Berlin-Zehlendorf-Mitte, Germany, assignor to General Electric Company, a corporation of New York

Application November 9, 1937, Serial No. 173,723
In Germany November 25, 1936
7 Claims. (Cl. 171—97)



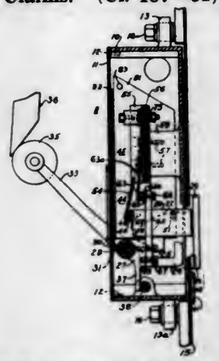
1. A surge voltage generator comprising an inductance, means for passing current therethrough, a condenser having terminals for connection to apparatus to which a surge voltage is to be applied, and a switch connected across said condenser in series with said inductance and means for passing current through the inductance, and being adapted to be opened to induce a surge voltage between the terminals of the condenser.

2,157,930

LOCK FOR ELEVATOR DOORS

Harry H. Vanderzee, Michigan City, Ind., assignor to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois

Application January 28, 1938, Serial No. 187,503
2 Claims. (Cl. 187—31)



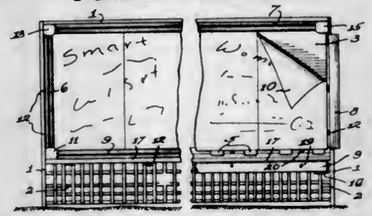
1. A lock for an elevator door comprising a casing, a hook member immovably fixed on the door in position to be moved into the casing by the closing of the door, a locking latch for locking the hook in the casing, a spindle for supporting and operating the latch, a horizontal shaft rotatably mounted in the casing for operating the spindle, an arm attached to the shaft, means for raising the arm to operate the shaft into unlocking position, an insulating block mounted above the latch and the hook in the casing, two pairs of spring arm contacts mounted in the block with their lower ends depending near the hook and the latch, a bridging plate mounted on the nose of the hook member in position to engage and electrically connect one pair of the spring arm contacts when the hook member is in its door closed position, a second bridging plate, and means for mounting the second bridging plate on the spindle to cause it to engage and electrically connect the second pair of spring arm contacts when the spindle is operated to move the latch into its locking position.

2,157,931

OPENED-FACE BILLBOARD

Harry Edgar Byrkett, Indianapolis, Ind., and Curtis Henry Dial, Decatur, Ill., assignors to General Outdoor Advertising Company, Inc., Chicago, Ill., a corporation of New Jersey

Application August 1, 1938, Serial No. 222,464
4 Claims. (Cl. 40—125)



4. In a billboard, a substantially rectangular poster panel, a frame surrounding said panel,

moldings disposed around the interior of said frame and adapted to cover the margins of said poster panel, hinge means allowing said moldings to be swung open to expose the margins of said poster panel, means for holding said moldings in the closed position, corner pieces fastened to the ends of the lower of said moldings and extending over the ends of the two side moldings in a manner preventing the opening of said side molding before the opening of said end molding, and corner pieces fastened to the ends of the upper of said moldings but not extending over the ends of the two side moldings.

2,157,932

MATERNITY SKIRT

Eloise Hopkins Glover, Sanford, N. C.

Application August 23, 1938, Serial No. 226,352

3 Claims. (Cl. 2—221)



1. A nether garment of the character described, comprising a waist-encircling portion, a back carried thereby, adjustable means for connecting the waist-encircling portion in the front, a front portion having its marginal edges secured to the marginal edges of the back from a point near the hips to the bottom of the garment, leaving the upper part free to serve as a flap for covering the adjustable connection of the waist-encircling portion, said flap being provided with an upwardly curved upper edge and means for detachably and adjustably securing the corners of the flap to the waist-encircling portion, the upwardly curved upper edge of the flap gradually descending to the normal waist line of the wearer as the abdomen becomes larger, the lower portion of the garment retaining its normal shape.

2,157,933

SILVER-INDIUM CONTACT

Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application August 6, 1938, Serial No. 223,507

4 Claims. (Cl. 200—166)

1. An electric contact member containing as an essential ingredient, silver to which has been added indium, in quantities ranging from 0.1 to 21%.

2,157,934

COPPER-MAGNESIUM ALLOYS OF IMPROVED PROPERTIES

Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co. Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application August 12, 1938, Serial No. 224,496

3 Claims. (Cl. 148—32)

1. An alloy composed of 0.1 to 3% magnesium, 0.1 to 5% of a material selected from the group consisting of nickel, cobalt and iron, 0.1 to 3% silicon, and the balance copper.

2,157,935

REFRACTORY METAL COMPOSITIONS

Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application December 16, 1938, Serial No. 246,137

2 Claims. (Cl. 75—176)

1. An alloy composed of:

	Percent
Tungsten	80 to 99
Molybdenum	1 to 20
Rhenium	.01 to 10

2,157,936

REFRACTORY METAL COMPOSITIONS

Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application March 8, 1939, Serial No. 260,590

3 Claims. (Cl. 75—176)

1. An alloy composed of:

	Per cent
Tungsten	40 to 80
Molybdenum	20 to 60
Rhenium	.01 to 25

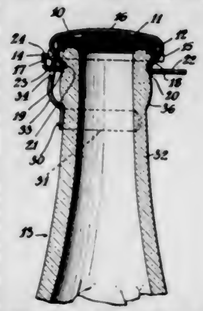
2,157,937

BOTTLE CAP

Otto L. Koscherak, White Plains, N. Y.

Application March 31, 1938, Serial No. 199,095

2 Claims. (Cl. 215—72)



1. A bottle cap for use with a bottle having a pouring lip and an annular groove therebelow, said cap comprising a member adapted to engage the top of the pouring lip for closing and sealing the bottle, a spring clip extending diametrically across said member and having downwardly and inwardly turned flanges forming ears adapted to snap into said annular groove for holding the cap in sealing engagement with the pouring lip, a hinge knuckle carried by one of said flanges and a bracket adapted to engage the bottle neck, said bracket having an upwardly extending resilient flange constructed and arranged to frictionally hold said hinge knuckle against the outer surface of the bottle when the bracket is applied thereto, so as to maintain the cap in open position while the contents of the bottle are being poured therefrom.

2,157,938

DRYING OVEN

Daniel Milan, New Orleans, La.

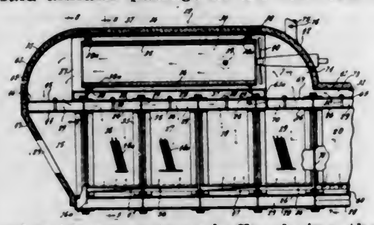
Application March 5, 1937, Serial No. 129,138

Renewed October 26, 1938

5 Claims. (Cl. 34—19)

1. A drying oven comprising a pair of identical half-sections joined axially end to end at their

rear ends, each of said sections comprising an elongated housing composed of a plurality of segments joined end to end, said segments each comprising a cylindrical inner shell and a cylindrical outer shell concentric therewith and spaced-apart therefrom to provide an annular passage therebetween, said inner shell having an opening into said passage intermediate a lower quadrant thereof, a combustion chamber open at both ends mounted at a level above said segments at the forward end of said housing, the forward end of said annular passage communicating with the forward end of said combustion chamber, inlet dampers mounted in said openings in the inner shells of the forward group of said segments, outlet dampers mounted in said openings in the inner shells of the rearward group of said segments, a peripheral ring closing said annular passage at the rear end of the



last of said segments, a baffle closing the forward end of the forwardmost of said outlet dampers, the rearward end of the rearwardmost of said outlet dampers being closed by said ring, openings in the top of the outer shell of each of said segments having outlet dampers and openings in the top of the outer shell of the rearwardmost of said segments having inlet dampers, a baffle in said annular passage enclosing both of said last-named openings and extending at one end to said closed end of said forwardmost outlet damper and at the other end to said ring, said oven housing providing a compartment between the upper portion of said oven housing and the outer shells of said outlet damper segments above both of said last-named openings, and a fan mounted in the rear end of said combustion chamber, said compartment communicating with the rear side of said fan.

2,157,939

DEHYDROGENATION OF HYDROCARBONS

Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 30, 1937, Serial No. 166,582

5 Claims. (Cl. 260—666)

1. A process for dehydrogenating cyclopentane to produce substantial yields of cyclopentadiene which comprises vaporizing said cyclopentane and passing the vapors under dehydrogenating conditions over a granular catalyst comprising essentially a major proportion of activated alumina supporting a minor proportion of vanadium sesquioxide.

2,157,940

CONVERSION OF HYDROCARBONS

Jacque C. Morrell and Aristid V. Grosse, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 30, 1937, Serial No. 166,583

4 Claims. (Cl. 260—668)

1. A process for the production of aromatic hydrocarbons from aliphatic hydrocarbons of from six to twelve carbon atoms, which comprises dehydrogenating and cyclicizing the aliphatic hydrocarbon by subjection to a temperature of the order of 400 to 700° C. for a period of time not exceeding 10 seconds in the presence of a catalyst comprising vanadium oxide and chromium oxide.

2,157,941

CONVERSION OF HYDROCARBONS

Jacque C. Morrell and Aristid V. Grosse, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 30, 1937, Serial No. 166,585

4 Claims. (Cl. 260—668)

1. A process for the production of aromatic hydrocarbons from aliphatic hydrocarbons of from six to twelve carbon atoms, which comprises dehydrogenating and cyclicizing the aliphatic hydrocarbon by subjection to a temperature of the order of 400 to 700° C. for a period of time not exceeding 10 seconds in the presence of a catalyst comprising vanadium oxide and molybdenum oxide.

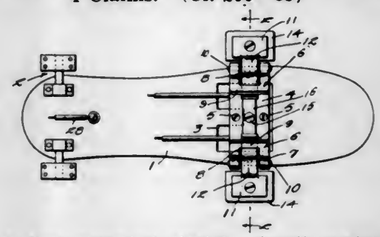
2,157,942

FOOT ACTUATED SWITCH STRUCTURE

Henry V. Phelps, Nitta Yuma, Miss.

Application April 5, 1938, Serial No. 200,221

4 Claims. (Cl. 200—59)



1. A foot actuated electric circuit controlling means adapted to be carried by an accelerator pedal, comprising a plate designed to be coupled in one side of an electric circuit and to be secured to the underside of said pedal, an oscillatable member carried by the plate and including a button disposed at one side of the pedal and in a plane below the top surface thereof, said oscillatable member carrying a finger extending inwardly and downwardly beneath the pedal, a resilient circuit closing finger carried by and electrically connected with the plate and engaging said member carried finger and constantly urging the member to oscillate in a direction to maintain said button in a predetermined position, and an electric terminal adapted to be secured in the opposite side of an electric circuit and carried by and insulated from said plate and in spaced relation with said contact finger to be engaged by said finger upon oscillation of said member.

2,157,943

WASHING APPARATUS

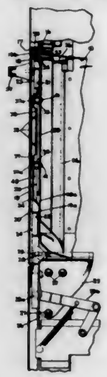
Forrest A. Walker, Oak Park, and Edgar S. Stoddard, Berwyn, Ill., assignors to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application August 27, 1937, Serial No. 161,258

10 Claims. (Cl. 98—87)

1. A door structure for washing apparatus and the like comprising inner and outer walls, the

inner wall having a depressed section directed toward the outer wall, the bottom wall of said depressed section having an aperture therein and the outer wall having a vent opening opposite said aperture, and a baffle in the depressed section spaced from the bottom wall thereof and also



having one edge spaced from the associated wall of the depressed section to provide an opening through which air and the like can flow from the inner side of the door into the space between the baffle and bottom wall of the depressed section and thence can flow through said vent opening in the front wall to the outside of the door.

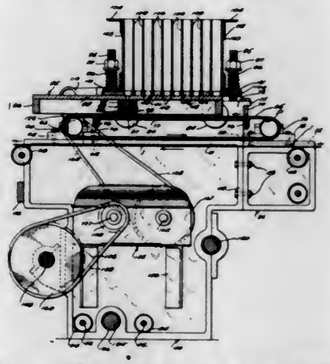
2,157,944

PROCESS OF AND APPARATUS FOR PRODUCING COVERING MATERIAL

Alfred B. Walton, Kenmore, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y., a corporation of Maryland

Application April 15, 1935, Serial No. 16,329

36 Claims. (Cl. 91—43)



27. The process of applying comminuted material to a web which comprises feeding successively to the surface of the web separate masses of the material of contrasting character, causing each of said masses while being fed toward the web to flow in a path of predetermined cross section so as to fill said cross section of said path, completing the feed of one of said masses into said path before starting the feeding of a contrasting mass into said path to prevent mixture of said masses as they are fed into said path, and during said flow in said path maintaining said masses separate and substantially unmixed but contiguous and consecutive and with a defined surface of contact therebetween so as to lay said masses successively in said contiguous and unmixed relation upon said web.

32. Apparatus for feeding comminuted material which comprises a structure extending about and defining a space, means for feeding the comminuted material into said space and to cause movement therethrough so as to fill out the cross section of said space transverse to said movement while being confined therein, means for feeding a comminuted material of a character contrasting to that of said first material contiguous to and consecutive to the feed of said first material and so as to fill out said cross section of said space while confined therein, means for maintaining movement of said materials in said contiguous relation through said space, and means acting concomitantly with said feeding means for cutting off feed of one granular material into said space before starting feeding of a contrasting granular material into said space, whereby mixture of said materials as they are fed into said space is prevented, said space being formed in said structure with said cross section thereof so restricted as substantially to maintain upon each mass of material moving therethrough a defined surface transverse to the movement of the mass to prevent mixture of said contiguous contrasting materials therein as said materials move through said space.

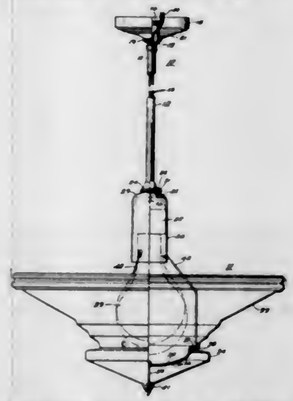
2,157,945

LIGHTING FIXTURE

Frederic C. Winkler, Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 5, 1936, Serial No. 67,236

4 Claims. (Cl. 240—78)



4. A lighting unit comprising a hanger, a socket supported by the hanger, a reflector of opaque material supported from the hanger, said reflector having top and bottom openings, the bottom opening having inwardly extending supporting means, a light reflecting and diffusing cover member for closing the bottom opening supported by said means and extending below the bottom edge of the reflector, a translucent bowl having an opening conforming in shape to the bottom opening of the reflector, and means for connecting said bowl to said cover and detachably supporting the bowl below the reflector with the edge of its opening in engagement with the bottom of the first mentioned supporting means on the reflector.

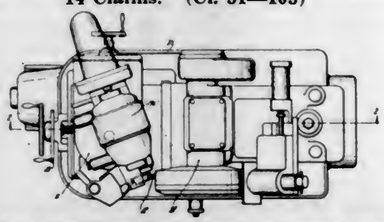
2,157,946

INFEED CYCLE CONTROL MECHANISM FOR GRINDING MACHINES

Raymond D. Wortendyke, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio

Application July 25, 1938, Serial No. 221,051

14 Claims. (Cl. 51—105)



1. In a machine tool having a work support and a tool support and a power operable mechanism for effecting an infeed cycle between the supports including a manual control, the combination of a one-cycle driving and timing mechanism for said control, including a rotatable shaft, motion transmitting connections from said shaft to said control, a power operable motor for rotating said shaft, a source of fluid pressure for said motor, and means responsive to a prescribed angular movement of the manual control from a prescribed starting position to connect said source of pressure to said motor to initiate an automatic cycle of movement of said manual control.

2,157,947

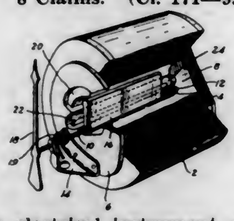
REPULSION VANE INSTRUMENT

Douglass A. Young, East Orange, and Henry L. Bernarde, Kearny, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 16, 1936, Serial No. 74,714

Renewed November 1, 1938

8 Claims. (Cl. 171—95)



6. In an electrical instrument of the moving iron type, a magnetic vane rotatable about an axis, and a magnetic member having a dimension radial from said axis which is substantially smaller than the dimension of said vane radial from said axis, said magnetic member being adjustable for varying its distance from said axis.

2,157,948

HARDENING OF METAL SURFACES

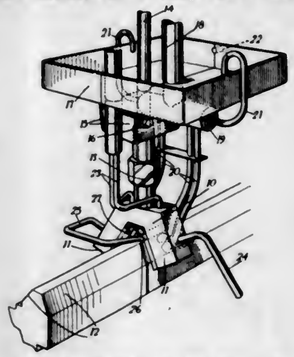
Herbert H. Beeny, Coventry, England, assignor to The Monarch Machine Tool Company, Sidney, Ohio

Application June 17, 1937, Serial No. 148,754

In Great Britain April 16, 1937

4 Claims. (Cl. 148—21)

2. A method of surface-hardening only the inclined flanks of a ferrous inverted-V rail, to be used for supporting a slide, which involves flame-heating the flanks of the rail while directing a jet of cooling medium on to the apex of the rail adjacent the flanks in a direction rearwardly of the direction of flame travel, and immediately cooling the flanks after they have been heated,



whereby the hardened flanks will be separated from one another by a relatively soft surface adjacent the apex of the rail.

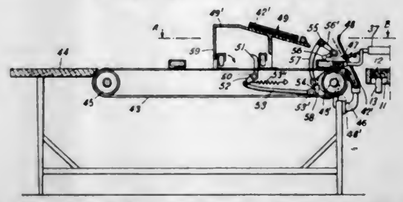
2,157,949

WRAPPING MACHINE

Johannes Benz, Dusseldorf, Germany

Original application April 2, 1937, Serial No. 134,628. Divided and this application November 28, 1938, Serial No. 242,807. In Germany April 7, 1936

2 Claims. (Cl. 93—2)



1. Apparatus for wrapping substantially rectangular pieces of material adherent to paper, for example butter, which comprises in combination a conveyer having a substantially horizontal upper surface arranged for linear travel, means adjacent one end of said surface to receive a sheet of wrapping material, a device adjacent said means for pushing an article to be wrapped into said sheet in the direction of travel of said conveyer surface, mechanism for partially folding said material around the article as it leaves said means, a second mechanism interposed in the path of travel to alter the position of the partially wrapped article with respect to the conveyer surface, and means adjacent said surface to partially obstruct the continued path of travel of the article and thus cause an automatic further wrapping of the article in said sheet.

2,157,950

COVER FOR STEERING WHEELS

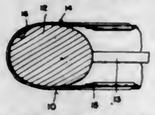
Frank A. Best, Windsor, Ontario, Canada

Application December 21, 1936, Serial No. 117,059

5 Claims. (Cl. 74—558)

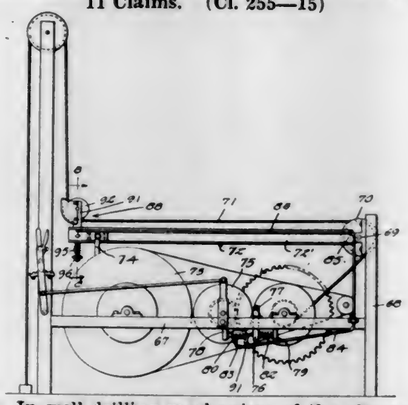
1. A cover for a rim of a steering wheel capable of being quickly applied to and removed from said rim and comprising inner and outer concentric strip-like rings arranged in face to face relation and adapted to embrace said rim, the outer ring being wider than the inner ring and

formed of fabric for engagement with the hands of an operator of the steering wheel, said outer ring being provided at the free longitudinal edges thereof with means for holding the cover under tension on said rim, and the inner ring being



formed of latex and adhering to said outer ring, said inner ring of latex being adapted to embrace the rim of said wheel and having sticky, clining characteristics for holding the cover against slippage relative to said rim.

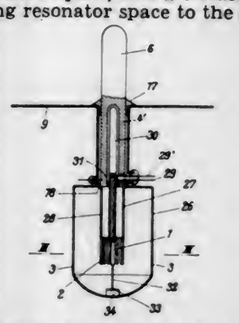
2,157,951
WELL DRILLING CABLE CONTROL
Henry W. Buschman, Spearman, Tex.
Application September 24, 1938, Serial No. 231,598
11 Claims. (Cl. 255—15)



1. In well drilling mechanism of the character described, including a derrick and a vertically oscillatable walking beam, a pulley unit mounted upon said derrick above the walking beam, a pulley unit carried by said walking beam, said pulley units being designed to have a drill tool carrying cable passed thereacross, means associated with and supporting one of said pulley units whereby the unit may have limited vertical movement and is constantly urged to move in a direction to maintain a taut condition in said cable, pay out means for the cable, means normally preventing the paying out of cable, and mechanism connected between the said one pulley unit and the pay out means operating to release said means upon movement of the said one pulley oppositely to the direction in which it is urged.

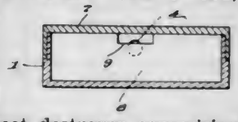
2,157,952
THERMIONIC VALVE
Walter Däilenbach, Berlin-Charlottenburg, Germany, assignor to Julius Pintsch Kommanditgesellschaft, Berlin, Germany
Application April 16, 1936, Serial No. 74,797
In Germany April 18, 1935
12 Claims. (Cl. 250—27.5)

1. A valve, comprising an anode, a vacuum container and a control electrode, a first conductor connected with said anode, a second conductor connected with said control electrode, said conductors forming a hollow body, the inner surface of which is substantially wholly electrically conductive and which surrounds an exciting resonator space, and a condenser coupling said exciting resonator space to the control space



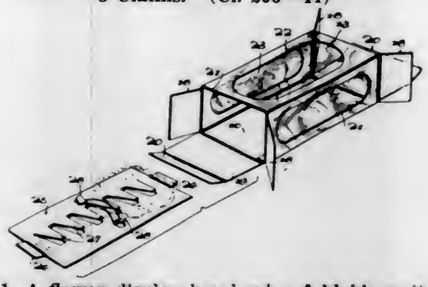
situated between said cathode and control electrode.

2,157,953
INSECT DESTROYER
Dwight M. De Long, Upper Arlington, Ohio, assignor of one-half to Theodore T. Haack, Columbus, Ohio
Application June 10, 1938, Serial No. 213,051
4 Claims. (Cl. 43—131)



1. An insect destroyer comprising an airtight container provided with an entrance and having communicating compartments, a seal for said entrance, a moist poisonous bait arranged in one of the compartments, and a moistening medium arranged in the other compartment for keeping the bait moist after the removal of the seal and the bait open to the atmosphere by way of the entrance and for consumption by insects.

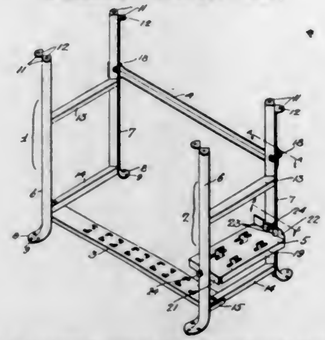
2,157,954
FLOWER DISPLAY BOX
Edgar L. Gould, Rochester, N. Y., assignor to E. E. Fairchild Corporation, Rochester, N. Y., a corporation of New York
Application April 5, 1938, Serial No. 200,248
5 Claims. (Cl. 206—44)



1. A flower display box having foldably united bottom, side, and top walls forming an open-ended body, the top and side walls having window openings and the side and bottom walls having end closure flaps of which the flaps of the bottom wall overlie the flaps of the side walls in the closed position, and a flower holding insert consisting of a flat body adapted to closely overlie the bottom of the box and having flower holding means, the said insert being movable into the box

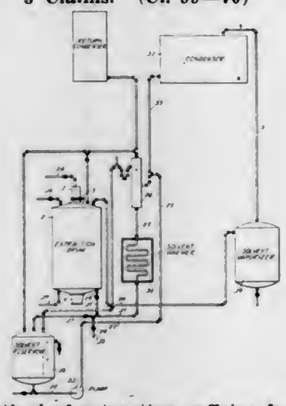
endwise of the latter and being provided with endwise projecting members bendable with respect thereto and extending in the closed position of the box angularly with respect to the insert between the inner and outer closing flaps of the body.

2,157,955
PRESSED METAL LEG STRUCTURE
Howard T. Hallowell, Jenkintown, and Frank A. Bennett, Philadelphia, Pa., assignors to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania
Application January 13, 1937, Serial No. 120,442
2 Claims. (Cl. 311—109)



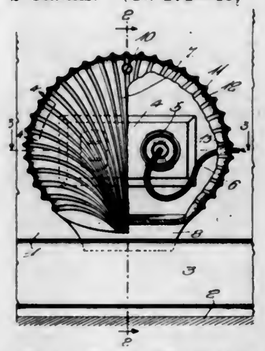
1. In a pressed metal leg structure, the combination with spaced uprights of V-shaped transverse sectional form, of a stringer of like transverse sectional form extending transversely between and secured to said uprights, said stringer having its extremities shaped respectively to the form of a transverse V-shaped channel in which the longitudinal channel terminates, and said transversely channeled extremities conforming accurately in shape with the said cross-sectional form of the uprights and seating against the latter.

2,157,956
PROCESS FOR THE DECAFFEINATION OF COFFEE
Walter C. Hasselhorn and Joseph John Thompson, Battle Creek, Mich., assignors to Kellogg Company, Battle Creek, Mich., a corporation of Delaware
Application February 12, 1938, Serial No. 190,344
3 Claims. (Cl. 99—70)



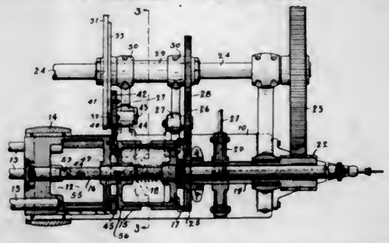
1. A method of extracting caffeine from coffee which consists in subjecting the coffee beans in a confined space to the action of relatively cold water to produce a surface absorption of water, withdrawing the water and subjecting the beans to steam thereby evenly distributing the water content throughout the beans, draining off the moisture from the beans, subjecting the beans without agitation to an upward circulation of hot solvent, withdrawing all of the solvent except that contained in the beans and subjecting the coffee beans again to the action of steam to remove the remaining solvent.

2,157,957
SHIELD FOR ELECTRICAL OUTLETS
Arthur C. Heise and Millard W. Jacobi, Baltimore, Md.
Application April 26, 1938, Serial No. 204,413
2 Claims. (Cl. 174—48)



1. As an article of manufacture, a shield for electrical outlets comprising a shell-like body, and a tongue extending laterally from the peripheral edge portion of said body and reduced in thickness towards its outer edge to provide a wedge for engaging between a wall and a baseboard to removably mount said body against a wall in position to enclose the outlet therewithin and conceal the same from view, passages being formed in the peripheral edge of said body in spaced relation to each other circumferentially thereof to support and guide therethrough an electrical conductor at selected positions with respect to the periphery of the body.

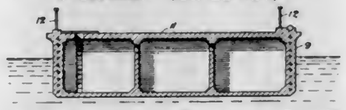
2,157,958
INDEXING MECHANISM FOR AUTOMATIC SCREW MACHINES
Alfred F. Jelinek and Walter E. Gross, Cleveland, Ohio, assignors to The Cleveland Automatic Machine Company, Cleveland, Ohio, a corporation of Ohio
Application February 7, 1938, Serial No. 189,130
6 Claims. (Cl. 29—50)



1. In an automatic screw machine embodying

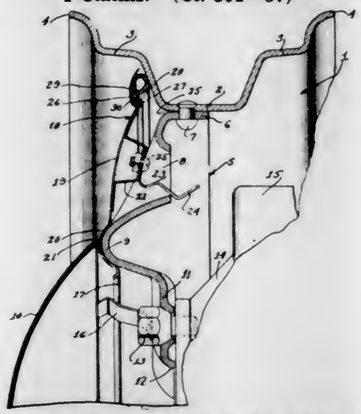
a reciprocative tool turret, mechanism for indexing said turret comprising a rotatively driven disc, cam plates thereon defining a pair of circular concentric guide-ways and chordal guideways interconnecting said concentric guide-ways, a gear, three rollers mounted thereon, two of said rollers being engaged within one of said circular guide-ways while the other roller is engaged within the other circular guideway, a second gear intermeshed with the first named gear and mounted on said tool turret, said cam plates being arranged to force the rollers in successive order from one of said circular guide-ways through said chordal guide-ways and into another of said circular guide-ways, whereby said gear is partially rotated within a portion of each cycle of rotation of said disc and restrained from movement during the remaining cycle of rotation of the disc.

2,157,959
FLOATING BRIDGE
Allan Walton Knight, Hobart, Tasmania, Australia
Application January 25, 1937, Serial No. 122,317
In Australia February 26, 1936
6 Claims. (Cl. 14—27)



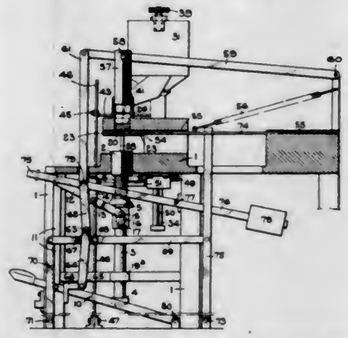
1. A bridge arched in the horizontal plane buoyant upon water composed of a broad rib, a roadway on the surface of the rib, a shore abutment at each end of the bridge and hinged links between each end of the bridge and the adjacent abutment, a flange on the outer end of each link, a bracket on each end of the bridge, side members to the brackets, a central horn plate in said bracket and a pin in each bracket that passes horizontally through the side plates, link flanges and horn plate.

2,157,960
ORNAMENTAL WHEEL DISK
George Albert Lyon, Detroit, Mich.
Application December 17, 1934, Serial No. 757,781
4 Claims. (Cl. 301—37)



3. In an ornamental member and wheel structure including a wheel rim, a body part connected thereto and having a central opening closed by a hub cap, and an ornamental member having a central opening larger than said hub cap, said ornamental member being arranged to bear against the side of said rim and against said body part, the combination therewith of resilient snap-on holding means on one of said parts for holding the ornamental member on the wheel, said means being completely concealed behind the ornamental member and being connected to said ornamental member and to said body part at points intermediate said bearing points of said ornamental member against said rim and body parts so as to effectively hold said ornamental member and said wheel together at both of said bearing points.

2,157,961
MEANS FOR ATTACHING PASTE TO THE PLATES OF ELECTRIC BATTERIES
Frank MacCallum, Washwood Heath, Birmingham, England, assignor to Maxolite Holdings Limited, London, England
Application September 28, 1936, Serial No. 103,046
In Great Britain April 26, 1934
6 Claims. (Cl. 18—5)

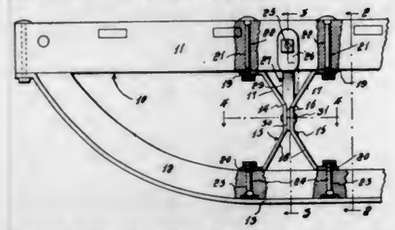


1. A machine for attaching depolariser paste to dry cell plates, comprising a hopper, a container within the hopper for holding the paste, said container having an opening, means within the container for expelling the paste out of this opening into the hopper at a controlled rate, a delivery tube of cross sectional area corresponding with that of the layer of paste to be applied to the plates, said delivery tube having an opening communicating with said hopper and having an open end through which the paste is fed, a plunger mounted for reciprocating movement in said tube to force the paste towards the open end, said plunger being operable to subject the paste to a plurality of compacting and compressing impulses in said tube prior to delivery therefrom, means for supporting a dry cell plate near the open end of said tube, said plunger being operable to force through the open end of said tube a sufficient quantity of said compacted paste and to press said paste into adhering contact with one surface of said plate, a mould for supporting the edges of said layer of paste during said pressing operation, and a knife, operable between said mould and the open end of said tube, for severing the paste.

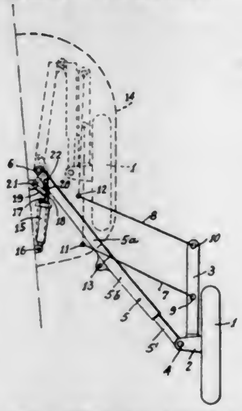
2,157,962
SLED KNEE
Ora B. McNees, Robinson, Ky.
Application December 23, 1937, Serial No. 181,442
1 Claim. (Cl. 280—27)

A sled knee comprising a pair of corresponding

braces having their intermediate portions disposed at right angles to their ends and provided with oblique portions connecting the middle and ends of each member, an end of each of said braces being secured to a runner rail and to a top rail, a brace having an enlarged end adapted to be secured to the outer side of the top rail between two of said ends, an intermediate portion thickened at right angles to the plane of said enlarged end to provide a shoulder to engage the underside of said top rail, said intermediate portion terminating in a lower flattened end, disposed at right angles to the end and shaped and disposed to fit between the middles of said first mentioned braces, fastenings connecting said last mentioned end and middles.

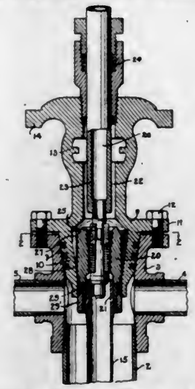


2,157,963
RETRACTABLE LANDING GEAR FOR AIRPLANES
Jean Mercier, Paris, France
Application December 29, 1936, Serial No. 118,153
In Belgium February 24, 1936
2 Claims. (Cl. 244—102)



1. In connection with an aircraft having a body, a retractable landing gear which comprises, in combination, a landing member, a folding structure for supporting said landing member including a strut element pivoted to said body, two connecting rods pivoted to each other and further pivoted one to said body and the other to said strut element, the four pivoting points of said strut element with said body, of the second mentioned connecting rod with said strut element, of said connecting rods with each other, and of the first mentioned connecting rod with said body, forming in the expanded position of the landing gear the apexes of a convex quadrilateral, two adjacent sides of which are constituted by said respective connecting rods, the sum of these two last mentioned sides being greater than the sum of the two other sides, and a jack for controlling the pivoting of said strut element, said jack being located wholly on the outside of said quadrilateral and including two parts movable with respect to each other, one of said parts being pivoted to said body and the other to the point of articulation of said two connecting rods with each other, said jack being arranged to be retracted when the landing gear is expanded and to cause the retracting of the landing gear by expanding.

2,157,964
TUBING HANGER
Robert A. Mueller, Houston, Tex.
Application February 16, 1934, Serial No. 711,496
8 Claims. (Cl. 166—15)



1. The combination with a casing head of a tubing hanger, a shank on said hanger to seat in said head, a stuffing box on said hanger adapted to seal about a pipe passing therethrough, a lift nipple extending through said head, a string of tubing releasably supported by said nipple whereby the tubing may be reciprocated during the washing of the well, and means on the tubing to be raised into said shank after the washing to anchor said tubing in said shank.

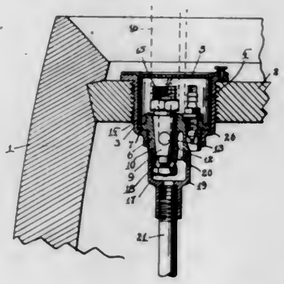
2,157,965
PROCESS FOR PRODUCING PHTHALIC ANHYDRIDE
Alfred Pongratz, Graz, Germany, assignor to Helmuth Reichhold, Detroit, Mich., doing business as Reichhold Chemicals
No Drawing. Application October 27, 1938, Serial No. 237,317. In Austria June 28, 1937
10 Claims. (Cl. 260—342)

1. A process of catalytically oxidizing naphthalene to phthalic anhydride, which comprises conducting a mixture of naphthalene vapor and air over a catalyst which consists of a precipitate obtained by combining a vanadate of a group consisting of alkali metal and ammonium vanadates with a member of a group consisting of basic titanium salts and zirconium salts in aqueous solution or suspension, said precipitate having been brought on a suitable carrier substance and dehydrated by heating.

2,157,966
LIQUID DISPENSER
George Reisinger and Joseph Farkas, Rochester, N. Y.
Application October 15, 1937, Serial No. 169,304
3 Claims. (Cl. 225—2)

1. In a dispenser the combination of a hol-

low bush having a threaded opening of reduced diameter in the bottom thereof, a valve body entirely encased by said bush, means surrounding said valve body and movable within said bush for rotation of said valve body in threading it in and out of the opening in the bottom of said



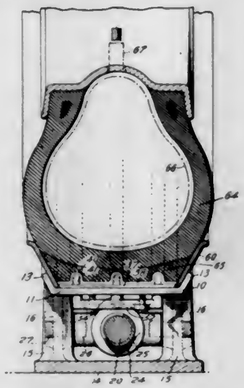
bush, a hollow valve stem rotatably mounted in said valve body, means carried by said hollow valve stem within said bush for the operation thereof and the control of the flow of liquid through the dispenser within the bush and hose connecting means with said valve stem carried by said valve body within said bush.

2,157,967

TIRE RETREADING DEVICE

Anthony Riccio, Brooklyn, N. Y., assignor to Vulcan Products Corporation, a corporation of Delaware

Application April 30, 1936, Serial No. 77,095
6 Claims. (Cl. 18—18)



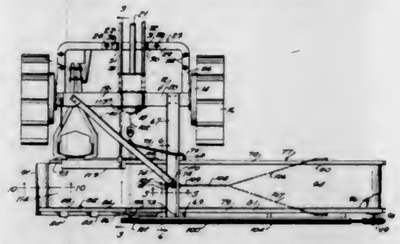
1. In a tire retreading device, the combination of a substantially flat annular heating element adapted to encircle a tire and a ring positioned externally of and enclosing said heating element, means associated with the external ring for engaging a portion of the side walls of the tire, the heating element being made from a plurality of concentric bands, the inner band having an inwardly bent, annularly disposed rib which forms a chamber between the two bands for the reception of a heating fluid said inner band constituting the mold ring and being adapted to engage the surface of the tire, the bands being joined together adjacent to their marginal edges to confine the heating fluid within the chamber.

2,157,968

SELF-PROPELLED COMBINED EARTH SCOOPING AND CONVEYING-OFF APPARATUS

Hugh K. Richwine, Liberal, Kans.

Application June 23, 1937, Serial No. 149,969
10 Claims. (Cl. 37—99)



4. In a mobile apparatus for the purpose set forth, in combination an upwardly inclined conveyor structure including an endless conveying belt for loading at its lower terminal portion, an earth shield connected to said structure and disposed on the forward side marginal portion of the upper run of said belt at its lower end terminal portion, an upstanding earth abutment disposed on the rear side of said structure adjacent the rear side edge of the lower terminal portion of said belt, and an upstanding outwardly inclined confiner connected with said structure, extending outwardly from and having its lower end disposed in proximity to the lower end of said upper run.

2,157,969

METHOD FOR PRODUCING HIDES WITH THE AID OF MOLD TRYPTASES

Otto Röhm, Darmstadt, Germany

No Drawing. Application January 30, 1937, Serial No. 123,295. In Germany February 7, 1936

28 Claims. (Cl. 195—6)

19. A method for producing ready-to-tan hides or skins which comprises subjecting hides or skins for depilating and bating purposes to enzymes consisting substantially of mold tryptases together with at least one oxidizing agent of the class consisting of alkali nitrates, alkali nitrites, alkali percarbonates, alkali peroxides, and hydrogen peroxide in weakly acid to weakly alkaline aqueous solution, and adding to the solution an alkaline reacting salt selected from a group consisting of alkali carbonates, alkali bicarbonates, alkali perborates and alkali phosphates.

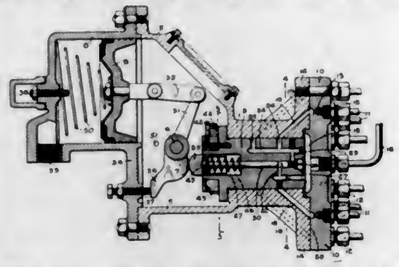
2,157,970

APPARATUS FOR DELIVERING LIQUIDS AND VISCOUS MATERIALS

Thomas Carlyle Ellison Rowland, Solihull, and Harry Parker, Birmingham, England

Application April 28, 1937, Serial No. 139,596
In Great Britain May 11, 1936
16 Claims. (Cl. 184—35)

1. Apparatus for delivering liquids, comprising a pump, a distributor, operating means for the pump, driving means for the distributor, and a casing containing the distributor, all associated together as a self-contained unit, and a plate having delivery openings therethrough, and a delivery pipe union on the plate connecting with each of said openings, said self-contained unit being detachably associated with said plate and being removable from said plate without disturbing the relative dispositions of the parts constituting said unit, said parts being retained



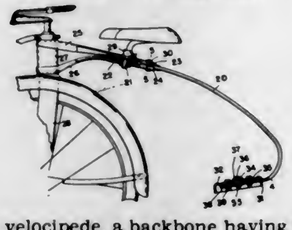
in position in said unit independently of said plate.

2,157,971

VELOCIPEDE STRUCTURE

Samuel A. Snell, Toledo, Ohio, assignor to The American-National Company, Toledo, Ohio, a corporation of Ohio

Application April 5, 1937, Serial No. 135,155
8 Claims. (Cl. 280—282)



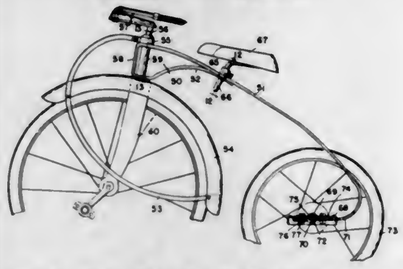
1. In a velocipede, a backbone having two elongated sections, one comprising a pair of rearwardly converging pressed metal members having aligned openings adjacent their forward ends for receiving an upright portion of a front fork, the second section extending endwise from the first section and being attachable to a rear axle or platform, the second section being a strip of spring steel and having one end thereof between and rigid with portions of the first mentioned section.

2,157,972

VELOCIPEDE STRUCTURE

Samuel A. Snell, Toledo, Ohio, assignor to The American-National Company, Toledo, Ohio, a corporation of Ohio

Application March 22, 1937, Serial No. 132,415
7 Claims. (Cl. 280—282)



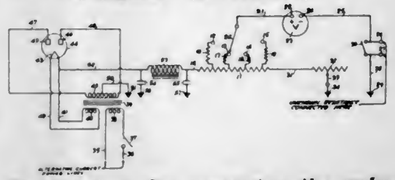
1. In a velocipede, a backbone comprising a strip of spring steel having a closed return-bent portion at its forward end, and a bushing securing said portion to said strip and having an opening for receiving a seat post.

2,157,973

ELECTRICAL MEASURING INSTRUMENT

Floyd E. Wenger, Bluffton, Ohio, assignor to Ray L. Triplett, Bluffton, Ohio

Application October 12, 1937, Serial No. 168,643
4 Claims. (Cl. 171—95)



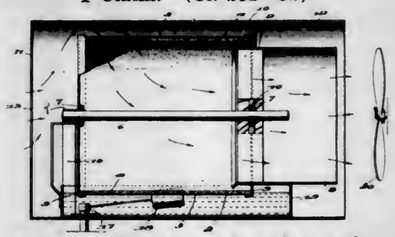
1. In a system for measuring the unknown magnitude of a resistance, a voltmeter, a range switch potentiometer resistor, and an adjustable resistor all connected in series with the resistance of unknown value, and means for applying a measuring voltage across the range switch potentiometer resistor and the adjustable resistor.

2,157,974

AIR COOLER AND HEATER

Mark Wentz, Big Spring, Tex., assignor, by direct and mesne assignments, of twenty-four and one-half per cent to himself and twenty-four and one-half per cent to S. B. Stone and twenty-five and one-half per cent to J. H. Greene and twenty-five and one-half per cent to R. F. Schermerhorn

Application August 18, 1938, Serial No. 225,627
1 Claim. (Cl. 261—92)



In an air cooling apparatus, the combination of a housing having inlet and outlet openings at its ends and a tank to contain water in its lower portion, a shaft fixedly supported at one end in said housing, the opposite end of said shaft being free or unsupported, a drum having an absorbent covering rotatively supported by said shaft near said shaft-end and arranged to dip into the water in said tank, a cylindrical extension member secured within the opposite end of the drum and extending beyond the drum toward the open discharge end of the housing, fan blades fixed within said member and connected at their inner ends to a bearing for supporting the drum on the free end portion of the shaft permitting rotation of said drum, extension member and fan blades about said shaft, and suction-creating means for causing a current of air to flow inwardly through the porous wall of said drum and axially through the fan blades to effect rotation of said drum, extension member, and fan blades as a unit.

2,157,975

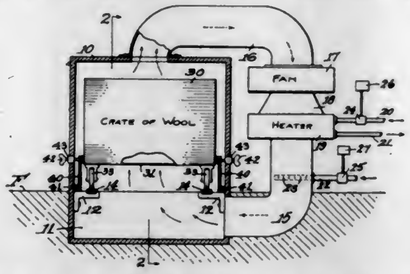
HUMIDIFYING APPARATUS FOR THE TREATMENT OF WOOL YARN

William H. Wilson, Burlington, Vt.

Application May 19, 1937, Serial No. 143,625
1 Claim. (Cl. 68—5)

Humidifying apparatus for setting twist in wool yarn which comprises a chamber, means to

support a crate of yarn packages therein, said crate having a perforated bottom, means to supply heated and humidified air to the lower part of said chamber, a fan to remove said air from the top of said chamber, sealing means to guide said air upward through said crate only, and

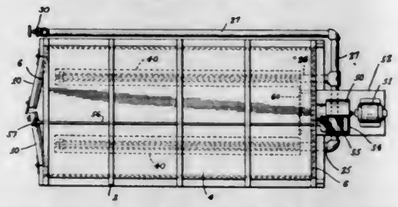


means to reheat and rehumidify said air, said sealing means forming a barrier between the lower part of said chamber into which heated and humidified air is delivered and the upper part of said chamber from which said air is withdrawn for recirculation.

2,157,976

APPARATUS FOR LOFTING AND FLUFFING YARNS AND THE LIKE

Harry C. Wolfenden, Attleboro, Mass.
Original application May 14, 1935, Serial No. 21,392. Divided and this application April 28, 1938, Serial No. 204,903
1 Claim. (Cl. 68—6)



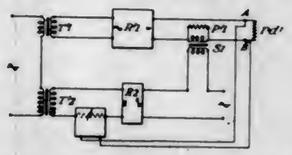
Apparatus of the kind described, comprising a steam-tight receptacle having a moisture-absorbent ceiling and moisture-repellent walls, means to receive in said receptacle a quantity of yarn, means to supply steam thereto, means comprising a guard for the steam-supplying means, and a baffle member for the steam emerging therefrom to diffuse the steam supplied throughout the receptacle.

2,157,977

AUTOMATIC REGULATING DEVICE FOR CURRENT RECTIFYING APPARATUS

Hubert Alriq, Paris, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 25, 1936, Serial No. 87,203
In France December 4, 1935
10 Claims. (Cl. 175—363)

1. In combination, a source of alternating current, a rectifier having its input terminals energized from said source, a load supplied with current from the output terminals of said rectifier, a first saturable reactor connected between said source and said rectifier, a second saturable reactor having a control winding energized in accordance with the current supplied to said load and having an impedance winding, and means including said impedance winding and a source

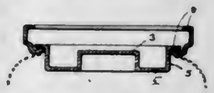


of alternating current for varying the saturation of said first saturable reactor to thereby vary the input to said rectifier in accordance with said load.

2,157,978

METHOD OF MAKING TANK HEADS AND CLOSURE MEMBERS THEREFOR

Giles E. Bullock, Rochester, N. Y.
Application April 20, 1936, Serial No. 75,328
6 Claims. (Cl. 29—148.2)



1. The method of forming a tank head with a locking flange and closure member from a single sheet which consists in forming the sheet into a substantially cylindrical body having an open and a closed end, severing a concentric portion from the closed end to provide an opening therein surrounded by an inwardly projecting locking flange with the closure member formed by the severed portion of the head movable into and out of said opening past said locking flange, reducing the open end of said cylindrical body to a diameter smaller than the perforated end and smaller than the diameter of the closure member to provide a seat within the cylindrical body spaced from the locking flange to permit a seating of the closure member in said head spaced from said locking flange.

2,157,979

PROCESS OF MAKING ALLOYS

Hugh S. Cooper and Charles H. Van Dusen, Jr., Cleveland Heights, Ohio, assignors, by mesne assignments, to Cooper-Wilford Beryllium, Ltd., a corporation of Delaware
No Drawing. Application August 17, 1935, Serial No. 36,718
8 Claims. (Cl. 75—122)

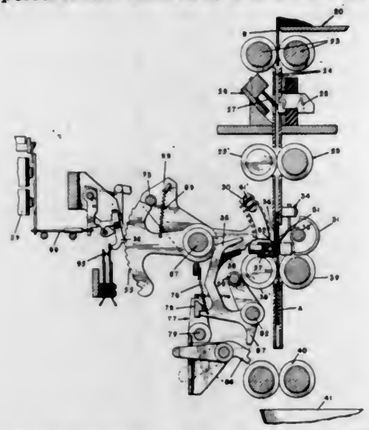
3. The process of making a beryllium alloy which comprises the following steps: preparing an auxiliary alloy of magnesium and a metal which it is desired to alloy with beryllium, and introducing this alloy into a fused salt bath comprising beryllium chloride and a salt not reducible by magnesium, said bath being maintained at a temperature below the melting point of the alloy being formed.

2,157,980

PRINTING MACHINE

Dewey C. Daubmeyer, Detroit, Mich.
Application January 8, 1936, Serial No. 58,217
Renewed July 7, 1938
35 Claims. (Cl. 101—93)

1. In card printing apparatus, means for advancing a succession of alternately arranged data and record cards, means for reading perforations in the data cards, means for printing on the succeeding record cards the data derived from the perforations aforesaid, and means operable

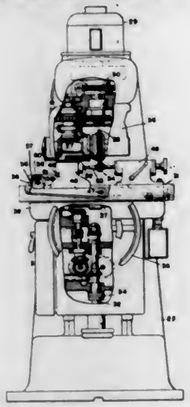


to prevent the printing means from printing on the data cards.

2,157,981

MACHINE FOR CUTTING GEARS

Robert S. Drummond, Detroit, Mich.
Application July 13, 1936, Serial No. 90,401
19 Claims. (Cl. 90—2)



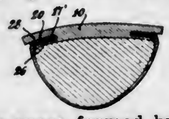
1. A machine for finishing gears comprising a frame, a work gear arbor, a rotary cutting tool arbor, the axes of said arbors being crossed, a movable carriage on said frame for supporting one of said members and means responsive to motion of said carriage for automatically variably inclining the axes of one of said arbors with respect to the other in timed relation to the movement of said carriage.

2,157,982

MANUFACTURE OF FOOTWEAR

Henry B. Gorman, Lynchburg, Va., assignor to Compo Shoe Machinery Corporation, New York, N. Y., a corporation of Delaware
Application August 31, 1935, Serial No. 38,684
10 Claims. (Cl. 12—142)

1. In a method of making a shoe, the steps which comprise lasting an upper to an insole having a plied forepart, removing one of said plies after lasting, providing an outsole with an integral attaching lip around its forepart, locating

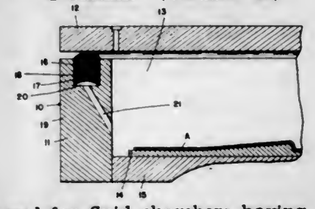


said lip in the space formed by removal of said ply, and fastening said outsole to the lasted upper.

2,157,983

SEAL

Bert Stanley Glougie, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application February 3, 1936, Serial No. 62,219
4 Claims. (Cl. 220—46)

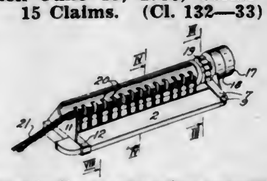


1. A seal for fluid chambers having relatively movable sections cooperating in one relative position thereof to form a fluid pressure chamber, said seal carried by one of the sections and comprising a deformable strip having a sealing surface convex in cross section for engagement with the cooperating section in the aforesaid relative position of the sections and having an opposed surface exposed to the action of the fluid under pressure in the chamber to force said convex surface into engagement with said cooperating section, the area of the surface exposed to the fluid pressure being larger than the area of contact between the convex sealing surface and the cooperating section to create a unit pressure between said convex surface and said cooperating section which is greater than the unit pressure of the fluid in the chamber.

2,157,984

METHOD OF WINDING AND WINDING APPARATUS

Harvey R. Hawgood, Cleveland, Ohio
Application June 15, 1936, Serial No. 85,270
15 Claims. (Cl. 132—33)



15. Hair winding apparatus comprising a tube having a longitudinal slot, teeth formed on said tube adjacent one edge of the slot, a cover hinged thereto and arranged to substantially overlie the slot, and a plurality of rollers extending substantially parallel to the axis of said tube and journalled thereon.

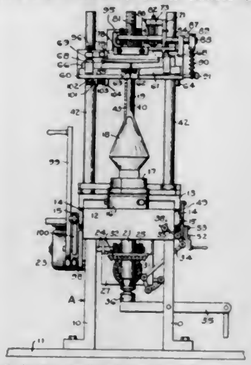
2,157,985

GLASSWARE FOOT MAKING MACHINE

James W. R. Hiteshew, Columbus, Ohio
Application November 13, 1936, Serial No. 110,750
8 Claims. (Cl. 49—35)

1. A machine of the character described com-

prising a stand, a mold carriage pivotally arranged on the stand for vertical swinging movement, a jawed chuck on the stand for holding glassware having a stem, means for rotating the chuck, foot forming carbon molds movable to operative position about said stem and adapted



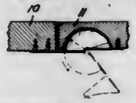
to form and join a foot to said stem, means for moving the foot forming molds to operative and inoperative positions about and from said stem, means constituting a support on the carriage for the said molds, and means associated with the support for adjusting said carbon molds independently of the second-named means.

2,157,986

ARRANGEMENT FOR CONNECTING STRUCTURAL ELEMENTS

Georg Hossenfelder, Berlin, Germany

Application May 13, 1936, Serial No. 79,605
In Germany May 13, 1935
12 Claims. (Cl. 20—92)



1. An arrangement of the character described for connecting structural elements comprising two connecting bodies adapted to be slipped one within the other by mutual turning movement, the two connecting bodies being produced by turning their cross sectional surface having two side edges as generating surface about an axis forming with at least one of the two side edges an angle which is smaller than a right angle in the one connecting body and greater than a right angle by the same amount in the other connecting body, so that in the one connecting body the side edge at the side of the smaller angle produces a receding cone segment surface and in the other connecting body the side edge at the side of the larger angle forms a protruding cone segment surface corresponding to the receding surface, said protruding surface adapted to slidably engage said receding surface by means of a mutual turning movement between the two bodies about the generating axis to establish the connection.

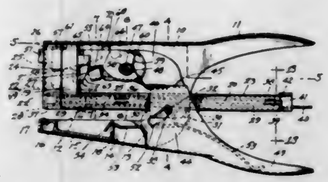
2,157,987

STAPLING PLIER

Edward C. Johnson, Stratford, Conn., assignor to Neva-Clog Products, Inc., Bridgeport, Conn., a corporation of Connecticut

Application January 7, 1937, Serial No. 119,424
8 Claims. (Cl. 1—49)

1. In a stapling device, a housing comprising side walls, a top wall, and an upper handle rigid with and extending rearwardly from said top wall, said side walls having near their lower edges opposed slots constituting a material receiving space, an anvil mounted between said side walls below said material receiving space, a staple driving head and guide member pivotally mounted within said housing above said anvil, a staple



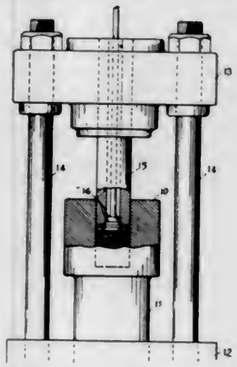
driver carried by said staple driving head, and a staple driving lever pivotally mounted in said housing at a point removed from the pivot axis of said staple driving head and guide, said lever being engaged at one end with said staple driver and having at its other end a rigid handle extension opposed to said first mentioned handle.

2,157,988

METHOD AND MACHINE FOR MAKING PIPE

Alfred P. Knapp, Sunnyside, N. Y., assignor to The Andrews Lead Company, Inc., Long Island City, N. Y., a corporation of New York

Application December 17, 1936, Serial No. 116,264
8 Claims. (Cl. 207—17)



1. A die for the manufacture of service pipe of soft metal, comprising a core rigidly mounted thereon and a coalescence chamber through which the metal passes under pressure to the point of extrusion, the metal being forced to form a homogeneous mass therein prior to extrusion.

2,157,989

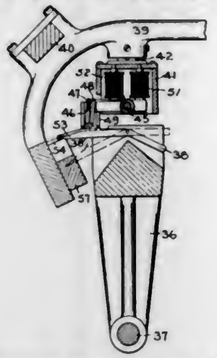
PATTERN MEANS FOR KNITTING MACHINES

Robert H. Lawson, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application November 6, 1936, Serial No. 109,514
13 Claims. (Cl. 66—75)

1. In a knitting machine, selecting elements for acting upon knitting instrumentalities to determine their selection for knitting patterned fabric, spaced butts on said elements, adjacent elements having differently positioned butts, and cams

controllable by magnetically operated means for engaging the differently positioned butts on said



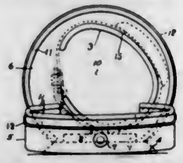
elements whereby selection may be imparted to the knitting instrumentalities.

2,157,990

WATCH BOX

Eugene Lux, New York, N. Y., assignor to The Gruen Watch Company, Cincinnati, Ohio, a corporation of Ohio

Application April 25, 1936, Serial No. 76,356
4 Claims. (Cl. 206—44)



1. A container for a wrist watch and strap comprising a flat base adapted to be supported on a substantially horizontal surface, a plurality of covers, a plurality of hinges for said covers, said hinges being attached to said base on opposite sides thereof and supporting said covers for swinging movement, a supporting member of curvilinear shape, means for attaching said curvilinear member to said base in spaced relation thereto between said hinged covers and in upright position, said hinges being located below said attaching means, and said covers being constructed and adapted to completely enclose said curvilinear member when they are in closed position.

2,157,991

PREPARATION OF VAT DYESTUFFS OF THE ANTHRAQUINONE SERIES

Walter Mieg and Franz Wieners, Opladen, and Willy Burneleit, Cologne, Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application December 23, 1935, Serial No. 55,928. In Germany December 29, 1934
3 Claims. (Cl. 260—272)

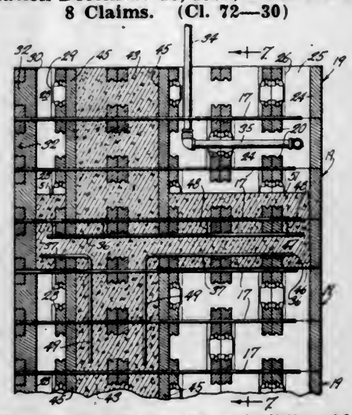
1. The process which comprises heating with copper a compound of the following general formula Aryl.CO.NR.Aryl wherein aryl represents a carbocyclic aryl radical containing up to three condensed rings at least one aryl radical being an anthraquinonyl radical and both aryl radicals containing a halogen atom in o-position to the CO- and NR-group respectively and R stands for hydrocarbon radicals.

2,157,992

BUILDING BLOCK AND ASSEMBLY THEREOF

Leonard C. Smith, East Chicago, Ind.

Application December 16, 1936, Serial No. 116,047
8 Claims. (Cl. 72—30)



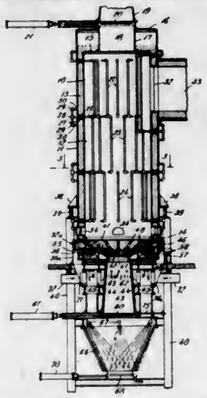
1. The combination with a building block of the class described, comprising a relatively flat elongated panel having at one side thereof a corresponding lateral extension at each end, at least one of said extensions having a notch in the end face thereof remote from the panel of an auxiliary member having a notch fitting portion for engagement with the notched end of said extension.

2,157,993

INCINERATION

Joseph C. Woodman, Flushing, N. Y., assignor, by mesne assignments, to Nichols Engineering and Research Corporation, New York, N. Y., a corporation of Delaware

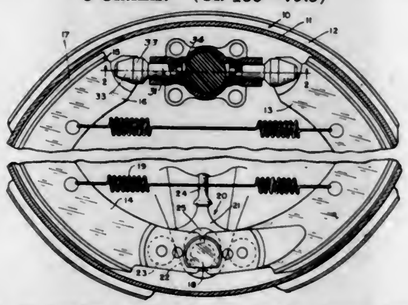
Application June 14, 1935, Serial No. 26,661
5 Claims. (Cl. 122—2)



1. In aparatus of the class described, the combination with a furnace chamber, an outlet for combustion gases at the upper part of said chamber and a grate at the bottom of said chamber supporting the material therein, of a plurality of sets of substantially vertical water-circulation pipes arranged at different heights in said chamber, the pipes in each set being arranged at intervals around the chamber and the cross sectional area of the storage space enclosed by the pipes increasing downwardly from set to set to facilitate the downward feed of the material,

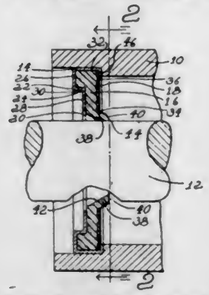
the lower set of pipes being spaced above the grate to allow the material to spread out thereon.

2,157,994
BRAKE MECHANISM
Carl F. Baisch, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application November 8, 1937, Serial No. 173,525
8 Claims. (Cl. 188—79.5)



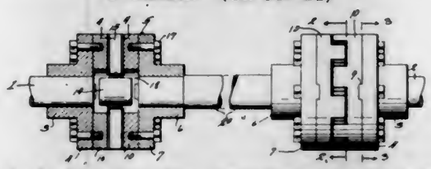
1. In brake mechanism, a brake drum, brake friction means supported within said drum for engagement therewith and having spaced ends, an adjustment device having a member of relatively non-compressible resilient material confined between the ends of the friction means, and means for applying a pressure on said material between the ends of the friction means to displace the sides of the material adjacent said ends outwardly toward the brake drum.

2,157,995
SEAL
Donald A. Boyd, Detroit, Mich.
Application October 29, 1937, Serial No. 171,723
1 Claim. (Cl. 288—1)



A self contained seal for insertion as a unitary structure in a housing surrounding a shaft comprising a centrally apertured cup having an annular peripheral flange portion, a radially extending flange portion integrally connected to one edge of said annular flange, said radially extending flange having a portion bent at right angles thereto spaced from and extending substantially parallel to said annular flange and a portion bent radially toward the axis of said seal, said right angular portion providing a retaining shoulder intermediate the extremities of said radially extending flange portion, an apertured radially extending ring spaced from said radially extending flange, a short radially extending flange integrally connected to the other edge of said annular flange in abutting relation with the outer edge of said apertured ring, and a composition material filling all of the space between all of said flanges and said ring including the apertures in said ring and extending radially and axially beyond said ring for pressure engagement with a shaft, said shoulder retaining said material against radial displacement.

2,157,996
UNIVERSAL FLEXIBLE AND SAFETY COUPLING
Benjamin Brownstein, Ellwood City, Pa.
Application August 9, 1938, Serial No. 223,978
8 Claims. (Cl. 64—14)

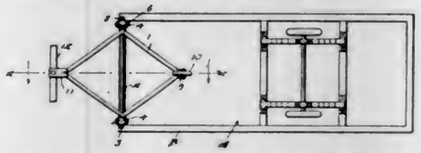


1. A shaft coupling, comprising a pair of hub members adapted to be secured to adjacent shaft ends and each having an integral lateral flange, said flanges having opposing faces, coupler plates arranged concentrically with and between the opposing faces of the flanges, key means extending diametrically across the contacting faces of the couplers and flanges, lug members carried by said couplers upon the opposing sides thereof and having interdigitating relation with one another, resilient and anti-friction inserts between said interdigitating members, and means securing the couplers to the flanges preventing movement of the couplers transversely of the shafts on said keys.

2,157,997
METHOD OF TREATING POLYVINYL HALIDES
Samuel L. Brous, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application June 16, 1938, Serial No. 214,052
8 Claims. (Cl. 260—88)

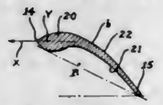
1. The method of reducing the solubility and thermoplasticity of a polyvinyl halide which comprises heating it with a member of the class consisting of the salts and oxides of iron, zinc, aluminum, tin, copper, nickel, cobalt, and manganese until condensation takes place and stopping said heating before a substantial loss in weight occurs.

2,157,998
TRAILER HITCH
Coleman E. Callaway, Wichita Falls, Tex.
Application June 20, 1938, Serial No. 214,794
1 Claim. (Cl. 280—33.2)



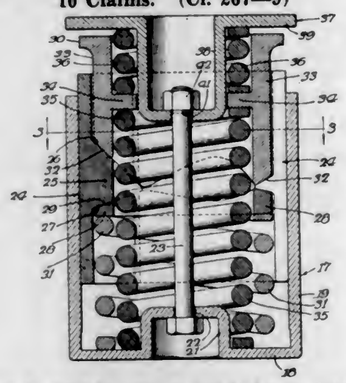
A trailer hitch comprising a diamond-shaped frame, a shaft bridging the frame and extending along the transverse axes thereof and beyond the frame to provide trunnions, bearing brackets receiving the trunnions therein, U-shaped portions included in the bearing brackets for detachable connection to a trailer at the forward end thereof, for a portion of the frame to extend rearwardly beneath the trailer, a ground engaging caster wheel swiveled to the rear apex end of the frame, and clevis means pivotally connected to the front apex of the frame for detachably connecting the hitch to a towing vehicle.

2,157,999
VENTILATING FAN
Frederick Charavay, Piqua, Ohio, assignor of one-half to Hartzell Industries, Inc., Piqua, Ohio, a corporation of Delaware
Application July 3, 1937, Serial No. 151,799
6 Claims. (Cl. 170—159)



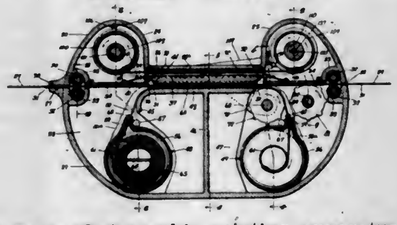
1. A rotatable fan of the character described having a blade the transverse sections of which taken at different distances from the axis of rotation are displaced relatively at outwardly decreasing angles of attack, the leading portions of the blade sections being relatively thick and convexly curved on both sides and providing an entering portion extending less than half the blade width from the leading edge, the various sections of said entering portion taken transversely of the blade axis and at different distances from the axis of rotation having an angle of attack which is substantially negligible so that the said entering portion of the blade is streamlined in a plane transverse to the axis of rotation, the rear of said entering portion merging into a comparatively thin trailing portion extending at large angles of attack, the thrust face of the trailing portion having a substantially concave shape.

2,158,000
BOLSTER SPRING UNIT
George C. Christy, Chicago, Ill., assignor to Carl L. Schmidt, Chicago, Ill.
Application August 12, 1937, Serial No. 158,785
10 Claims. (Cl. 267—9)



1. In a railway car, a truck frame having an opening therethrough, a bolster extending into said opening, a spring assembly within said opening for supporting one end of said bolster, said assembly comprising a plurality of helical springs and a spring unit, said unit comprising a hollow casing, friction shoes within said casing, yielding means for resisting the downward movement of said shoes, a thrust member, cooperating wedging means on said thrust member and shoes, spring means acting directly on said shoes and thrust member for resisting compression of the gear and to promptly return the parts to normal position after release, and means carried by said unit for resiliently supporting said bolster and permitting its vertical oscillation without the oscillation of said friction shoes.

2,158,001
PHOTOGRAPHIC CONTACT PRINTING APPARATUS
Harry L. Dazey, Clayton, Mo.
Application February 15, 1937, Serial No. 125,755
5 Claims. (Cl. 95—75)



1. In a photographic printing apparatus including a casing having means therein defining a printing zone, means for moving negative film through said zone including a rotatable drive element, a film sprocket, and a coupling device operatively interconnecting said drive element and sprocket comprising means for positively limiting angular movement of the sprocket in one direction relative to said drive element, and a spring tending to maintain the sprocket in its limit position relative to the drive element, said sprocket being adapted for independent rotation to permit film engaged thereby to be withdrawn from the printing zone without disturbing the angular setting of the drive element, said spring operating to return the film to its former position in the printing zone following such withdrawal.

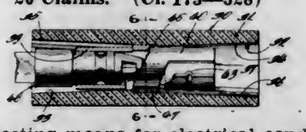
2,158,002
ELECTRICAL CONNECTING MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application July 8, 1935, Serial No. 30,281
Renewed March 2, 1938
3 Claims. (Cl. 173—334)



1. Electrical connecting means, comprising: a member formed of a single piece of sheet-metal, opposite marginal portions of said member being bent to form a pair of generally tubular loops permanently disposed in spaced apart side-by-side relation and integrally joined by a reentrant portion extending between said loops, the outer surface of said reentrant portion being trough-like and of curved cross-section, said member including a tab portion integral with said reentrant portion and extending laterally from said

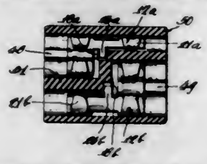
trough-like curved surface so that the line of junction between said trough-like surface and said laterally extending portion is curved.

2,158,003
ELECTRICAL CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application January 4, 1936, Serial No. 57,620
20 Claims. (Cl. 173—328)



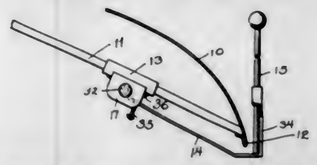
9. Connecting means for electrical conductors, comprising: a one piece body of insulating material having a chamber having entrance openings at opposite ends of said body; a generally tubular current-conducting member insertable through either of said entrance openings so constructed and arranged and so disposed in said chamber that said member forms oppositely-directed jacks adapted to independently yieldably grip conductor terminals thrust thereinto through said entrance openings; and means, interlocking said body and said member, comprising cooperating abutment surfaces, which are respectively integral portions of said chamber and of said member, extending transversely of said tubular member between said jacks and so constructed and arranged that by telescoping movement of said member and said chamber, said member and said body are brought into interlocking relation, and when in interlocking relation said member is positively held interlocked with said body by said cooperating surfaces against forces due to insertion or withdrawal of conductor terminals into or from said jacks.

2,158,004
ELECTRICAL CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application March 6, 1936, Serial No. 67,474
17 Claims. (Cl. 173—328)



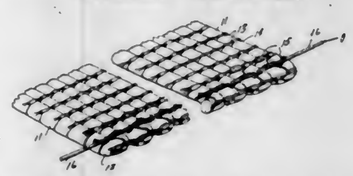
8. An electrical connecting device, comprising: a unitary circuit continuing member of sheet material, having means at one side for receiving a certain maximum number of plug conductor terminals of the snap-type, and having means at another side for receiving a certain different maximum number of plug conductor terminals of the snap-type; each of said receiving means being independently operable and having an entrance end and each having a part spaced from said entrance end, said part forming detent means being constructed and arranged to resiliently engage a portion of the snap-type plug conductor terminal disposed therein, to mechanically and electrically hold the plug conductor terminal assembled with the receiving means.

2,158,005
FENDER SIGHT
Louis Eisenman, Brooklyn, N. Y.
Application May 5, 1937, Serial No. 140,940
5 Claims. (Cl. 248—226)



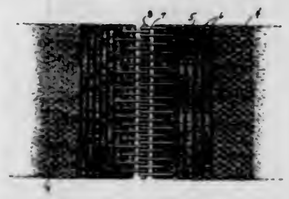
1. A clamp adapted for use with a fender having an elongated frame portion, comprising telescopic clamping members, a pivot pin holding said members in clamping relation, a bracket member pivotally supported on said pin, and a part carried by the bracket member, said bracket member and part being free and clear of the fender at all points.

2,158,006
IRONER ROLL PADDING
William D. Ellis, III, Atlanta, Ga.
Application December 15, 1936, Serial No. 116,009
3 Claims. (Cl. 38—65)



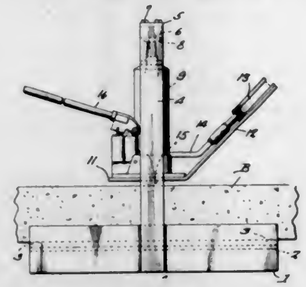
2. An ironer roll comprising a cylindrical member, a pad on the periphery of the cylindrical member, and having one free edge overlapping, and a covering for the pad, one end of the covering being adapted to be inserted beneath the overlapping edge of the pad, said pad being formed of loose strands of cotton sliver held together by knitted stitches, the said knitted stitches being relatively heavy in the vicinity of the free edge, and a cord member extending the length of the free edge and beyond the ends thereof, said cord member lying upon the underside of the pad and being secured thereto by means of the knitted stitches.

2,158,007
IRONER BELTING
William D. Ellis, III, Atlanta, Ga., and Clarence B. Haydon, Cincinnati, Ohio
Application June 14, 1937, Serial No. 148,222
8 Claims. (Cl. 24—31)



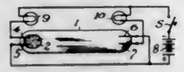
1. A web having a cut end which is reinforced by having superimposed therein and secured thereto the warp threads of a shredded extension.

2,158,008
BEAM-TESTING MACHINE
Robert Lawton Grant, Jr., Atlanta, Ga.
Application March 25, 1937, Serial No. 133,045
1 Claim. (Cl. 265—14)



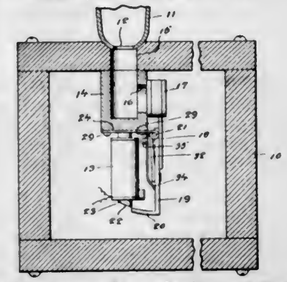
A portable testing machine including an I-beam constituting a base adapted to be mounted on a supporting surface, said beam being normally positioned with its web horizontal, transverse bearings integral with the web and equally spaced from the center thereof, a yoke integral with the base and straddling and extending transversely of the central portion thereof, a jack interposed between the intermediate portion of the yoke and the base, a plate joined to the base of the jack for carrying an indicator, and a transverse bearing depending from the plate and positioned to engage one surface of a beam under test at a point equidistant from the bearings on the base and within the yoke while said bearings are engaged by the opposed surface of the beam.

2,158,009
ELECTRICAL RELAY
Andrew Hufnagel, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 18, 1937, Serial No. 131,612
12 Claims. (Cl. 175—320)



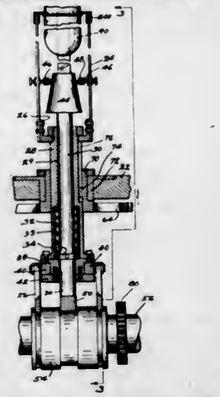
5. In a circuit interrupter, in combination, a body having an elongated chamber therein, a globule of electrically conducting liquid mounted in said chamber and movable therein from one end of said chamber to the other end thereof, a pair of electrodes associated with said body, said electrodes being arranged so that they are both engaged by said globule of liquid when and only when said globule of liquid is disposed adjacent one end of said chamber, whereby a circuit is established through which current may flow from one of said electrodes to the other through said liquid, and means for passing magnetic flux through said globule of liquid in a plane generally perpendicular to the plane in which the current flows in passing from one of said electrodes to the other, said flux and said current coacting to initiate movement of the globule of liquid from said one end of said chamber towards the other end thereof at a speed such that the inertia of the globule causes the globule to continue to move after the flow of current through the globule ceases, whereby said globule is moved out of bridging relationship with said electrodes to thereby interrupt the circuit through said electrodes.

2,158,010
MAGNET FOR ORGANS
David Marr, Warsaw, N. Y.
Application January 24, 1938, Serial No. 186,687
1 Claim. (Cl. 175—345)



The combination of an electro-magnet, a hinge plate for mounting the magnet having spaced hinge eyes in the free end, a pivot pin in said hinge eyes, an armature for the electro-magnet having spaced projections at one end provided with grooves receiving one side of said pivot pin, and a spring on the armature bearing against the other side of said pin to permit of the armature being detached by straight line movement longitudinally of the electro-magnet.

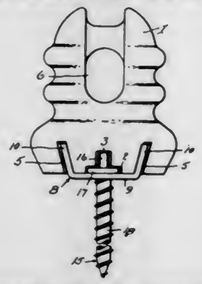
2,158,011
BEAD-FORMING MACHINE
Stanley S. Millen, Glendale, Calif., assignor to Julius Schmid, Beverly Hills, Calif.
Application December 20, 1937, Serial No. 180,791
2 Claims. (Cl. 18—2)



1. A machine to form an annular bead on thin rubber articles supported upon forms, a beading unit for each of said articles, a body portion in each of said units, said body portions having a plural number of fingers adapted to engage and release said articles, a horizontal cam shaft, cams on said shaft, pitman rods operated by said cams and joined to said body portion whereby said body portion and fingers may be vertically reciprocated, a vertically positioned shaft extending through said body, a cam upon said last mentioned shaft to spread said fingers, gears to oscillate said body portion around the medial vertical axis of said vertically positioned shaft, and means to intermittently raise and lower said vertical shaft to spread said fingers, said means comprising a bar positioned under said vertical shaft and extending laterally therefrom, a fulcrum for

said laterally positioned bar, a third cam, said last mentioned cam being rotated in timed sequence with formation of said head, and linkage joining said last mentioned cam and the free end of said laterally positioned bar to raise and lower the same whereby the cam on said vertical shaft may be moved to spread said fingers.

2,158,012
INSULATOR
David M. Morgenstern, Shaker Heights, and Joseph Brasty, Maple Heights, Ohio
Application February 4, 1937, Serial No. 124,024
10 Claims. (Cl. 174—164)



10. In combination, a connector, attaching means for securing the connector to a support, and an insulator body; said body having laterally spaced channels and the connector having resilient flanges each for engagement within one of said channels, each flange having relatively yielding parts, the channels and flanges being so shaped as to hold the body to the connector with said parts of each flange placed under tension by cooperation with the opposed walls of the corresponding channel.

2,158,013
RAILWAY TRACK GAUGE AND ALIGNMENT DETECTOR
George R. Pflasterer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 24, 1937, Serial No. 155,467
5 Claims. (Cl. 246—121)



5. In combination with the rails of a railway track, means for detecting the relative spread between the rails of said track, said means comprising a contact having a normal position and capable of assuming a different position but being incapable of self-restoration to said normal position, biasing means for causing said contact to assume said different position if the spread between said rails exceeds a predetermined value, and means controlled by said contact and operable when said contact is in said different position to give a warning indication.

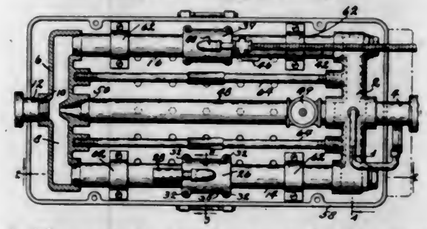
2,158,014
ABRADING ROLL
Earl E. Price, Minneapolis, Minn., assignor to G. H. Tennant Company, Minneapolis, Minn., a corporation of Minnesota
Original application July 1, 1935, Serial No. 29,305. Divided and this application May 24, 1937, Serial No. 144,426
4 Claims. (Cl. 15—230)

1. An abrading roll comprising a suitable base having two concentrically related inner and outer layers of steel wool surrounding it and suitably



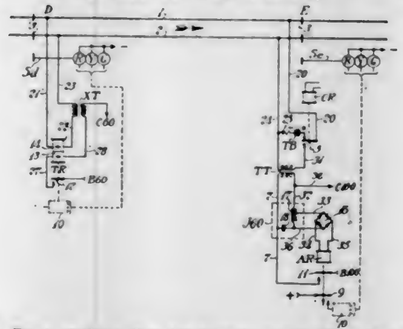
secured thereto in relatively fixed relation, the inner layer being less dense than the outer.

2,158,015
METHOD OF AND APPARATUS FOR PRODUCING FOAM FOR FIRE EXTINCTION
Albert V. Sammis, Huntington, N. Y.
Application April 22, 1937, Serial No. 138,285
2 Claims. (Cl. 261—76)



1. The method of producing a fire extinguishing foam which method comprises introducing a foaming agent into a flowing stream of water by the vacuum-created suction action of said stream, simultaneously introducing air into a separate stream of water by the vacuum-created suction action of said second stream, and then causing said streams to impinge against each other to effect mixing of the air, water and foaming agent and simultaneously forcibly injecting a third stream of water into and through the mixture to augment the mixing action and produce a driving force on the resultant foam.

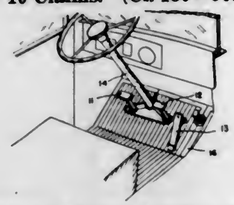
2,158,016
APPROACH CONTROL APPARATUS FOR RAILWAY SIGNALING SYSTEMS
Charles B. Shields, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 14, 1938, Serial No. 219,232
19 Claims. (Cl. 246—38)



1. In a system for approach controlling a railway signaling function without the use of line wires, the combination with a section of track of means for supplying coded track circuit energy to the rails of said section, a code following track relay connected to receive said coded energy

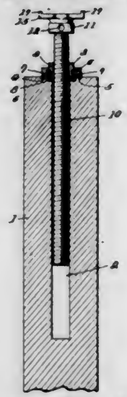
from said rails and designed to respond to that received energy, means controlled by said track relay and effective during recurrent periods of the received track circuit code for supplying said rails with auxiliary energy of a given carrier wave frequency, an approach relay having a slowness of release which is sufficient to bridge the spacing between said recurrent periods, a circuit connecting the operating winding of said approach relay in energy receiving relation with said rails, resonant means included in said circuit for conditioning it to pass energy of said given carrier wave frequency only, and traffic controlling apparatus governed by said approach relay.

2,158,017
FLOOR COVERING
William S. Vrooman, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application September 27, 1937, Serial No. 166,018
10 Claims. (Cl. 180—90.6)



1. A covering for the flooring of a motor vehicle body having a control element extending through an opening in the flooring comprising a mat covering the flooring in the region of the control, and means for securing the mat to the flooring including a fastener element on the mat extending through the opening in the flooring and apertured for the passage of said control element.

2,158,018
MINE PROP
Frederick M. Wittman, Fairmont, and Harry H. Parrack, Barrackville, W. Va.
Application April 30, 1937, Serial No. 140,014
1 Claim. (Cl. 248—354)

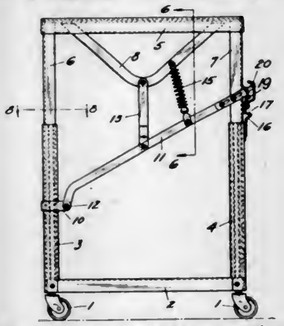


In a mine prop, the combination with a wooden post provided with a longitudinally disposed bore at one end thereof, of a cap having a marginal annular depending flange provided with a knife edge adapted to be embedded in the end of said post around said bore for preventing the post from splitting, said cap having depending spurs within said flange adapted to be embedded within the end of said post for preventing the cap from rotating in respect to the post, said cap having an internally threaded bore, a screw working in said bore and a head swiveled on the end of said screw.

2,158,019
VULCANIZATION OF RUBBER
Albert M. Clifford, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 8, 1937, Serial No. 141,559
17 Claims. (Cl. 18—53)

1. The method of treating rubber which comprises vulcanizing it in the presence of an arylenethiazyl-2-thio derivative of a compound selected from the group consisting of the dioxanes and their sulfur analogs.

2,158,020
STAND
Frank J. Hruska and Edward D. Greedy, Cedar Rapids, Iowa, assignors to Lefebure Corporation, Cedar Rapids, Iowa, a corporation of Iowa
Application July 9, 1937, Serial No. 152,783
3 Claims. (Cl. 311—39)

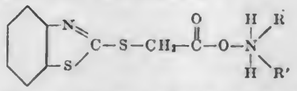


1. A table comprising a base section including substantially vertical guides, a top section which may be elevated from the base section, said top section comprising a top or tray table, members depending therefrom slidably engaging said guides, a lever pivoted to one side of the base section, extending below the top or tray table and to the opposite side of the base section, loose connection means connecting the top section and said lever intermediate the length of the latter, said loose connection means allowing pivotal motion of the lever and concurrent vertical reciprocation of the top section, and a tension spring connected to the top section and to the lever at a point between the connection of the lever to the connection means and the free end of the lever whereby, upon pivotal motion of said lever, the points of connection of said tension spring to the top section and to the lever both move in the same direction.

2,158,021
VULCANIZATION OF RUBBER
Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 23, 1935, Serial No. 7,835
11 Claims. (Cl. 18—53)

4. The process which comprises vulcanizing a

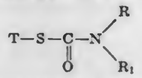
vulcanizable rubber composition in the presence of a compound of the formula



wherein R and R' are aliphatic radicals.

2,158,022
VULCANIZATION OF RUBBER
Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 2, 1935, Serial No. 43,286
14 Claims. (Cl. 18—53)

9. The process of accelerating the vulcanization of rubber which comprises vulcanizing it in the presence of a basic nitrogen-containing accelerator and a compound having the formula

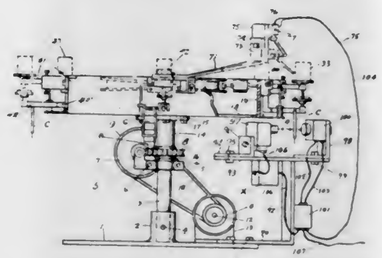


wherein T is a 1-arylene thiazyl radical and



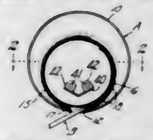
is an amino radical in which R and R_1 are selected from the group consisting of aliphatic, aralkyl, alicyclic and aryl radicals.

2,158,023
AUTOMATIC WEIGHING AND REJECTING MACHINE
John Buchanan Smith, Griffin, Ga., assignor to Pomona Products Company, Griffin, Ga.
Application November 19, 1937, Serial No. 175,533
18 Claims. (Cl. 209—121)



1. A weighing and rejecting apparatus comprising a rotary element, a weighing device carried by the rotary element, said device having loading and ejecting positions, means coacting with said device to permit its free swinging movement in ejecting position but rigidly retaining said device in its loading position, and ejector member, an electro-magnet for controlling said ejector member, a light, a photo-electric element controlled by the rays from said light, and an interceptor member mounted on and in advance of said weighing device for intercepting said light rays, whereby articles of improper weight are removed from the weighing device when the latter reaches ejecting position.

2,158,024
COILABLE MEASURING RULE
Austin L. Stowell, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application February 13, 1937, Serial No. 125,530
9 Claims. (Cl. 33—138)

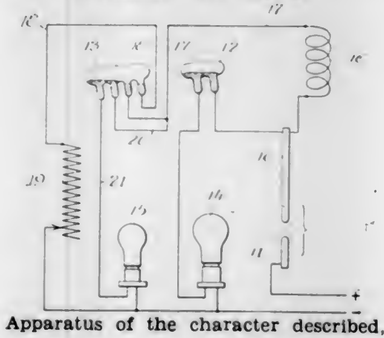


1. In a rule of the character described, a resilient measuring tape having a transverse curvature and an inherent tendency to assume a rectilinear state, a casing having an entrance slot through which said tape is moved, and a circular retainer within the casing comprising oppositely disposed expansible and contractible fingers extending radially inwardly from each side of the entrance slot and forming a generally circular guide for the tape whereby the tape may be wound up in either direction within the casing.

2,158,025
PROCESS OF SOLIDIFYING SOILS
Jan van Hulst and Gerrit Hendrik van Leeuwen, Amsterdam, Netherlands, assignors to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
No Drawing. Application June 5, 1935, Serial No. 25,184. In the Netherlands June 14, 1934
7 Claims. (Cl. 61—36)

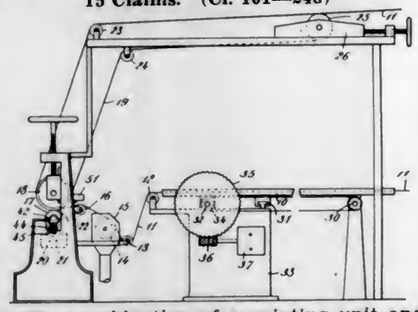
1. A process of impermeabilizing or fixing pervious or loose subsoils and earth masses and of impermeabilizing porous masonry and other stony masses, which comprises causing a mixture of an aqueous dispersion of bituminous substances with finely divided filling substances that do not exert any substantial flocculating or coagulating action on said dispersion to penetrate into the mass under treatment and causing the said mixture to coagulate there.

2,158,026
COMBINED ARC LAMP AND INCANDESCENT LAMP
Harold J. Brunk, Chicago, Ill., assignor to The C. F. Pease Company, a corporation of Delaware
Original application May 21, 1937, Serial No. 144,090. Divided and this application January 7, 1939, Serial No. 249,796
2 Claims. (Cl. 176—9)



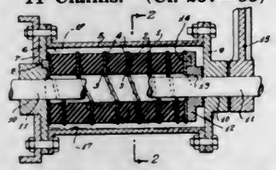
1. Apparatus of the character described, including: an arc lamp comprising a pair of relatively movable carbons; a solenoid for causing said relative movement; a resistor; a series circuit including said carbons, said solenoid, and said resistor; a second lamp; switch means operated by movement of said carbons for placing said second lamp in said circuit in place of said resistor; a third lamp; and means for automatically placing said third lamp in series with said carbons and in shunt about said solenoid after said carbons have moved to proper operating separation.

2,158,027
TEXTILE PRINTING MACHINE
Murray N. Bulford, Clearwater, S. C., assignor to United Merchants & Manufacturers, Inc., New York, N. Y., a corporation of Delaware
Application September 29, 1938, Serial No. 232,246
15 Claims. (Cl. 101—248)



1. The combination of a printing unit and a tenter frame, the printing unit having a pressure cylinder and a printing roll arranged to continuously propel a textile fabric at the speed of the tenter frame and the tenter frame being positioned to lead the fabric directly to the printing unit.

2,158,028
SPRING
James P. Burke, Knoxville, Tenn.
Application July 12, 1937, Serial No. 153,206
11 Claims. (Cl. 267—33)

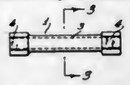


1. A spring comprising a wound metal spring having a plurality of turns, elastic material separating said turns, and stop means separated from said spring against which said metal spring contacts progressively and over a continuously increasing length during continuing deflection of the spring.

2,158,029
WIRE CONNECTOR
James P. Burke, Knoxville, Tenn., assignor to F. L. McLaughlin, Detroit, Mich.
Application December 19, 1938, Serial No. 246,648
1 Claim. (Cl. 287—78)

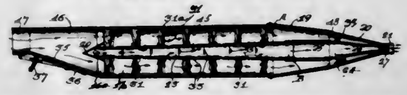
A sleeve adapted to be twisted with contained flexible elements having thickened ends of substantially uniform cross-section and a mid-portion of substantially uniform cross-section throughout its length, said ends converging into said mid-portion by a fillet-like portion for preventing fracture of said mid-portion at the junc-

ture with said ends, said thickened ends being resistant to distortion by twisting tools whereby



torsional deformation is confined to said mid-portion.

2,158,030
MUFFLER
Eddy D. Latulippe, Montreal, Quebec, Canada, assignor, by direct and mesne assignments, to Aeroplane Improvements Limited, Montreal, Canada, a company of Canada
Refiled for abandoned application Serial No. 30,249, July 8, 1935. This application August 31, 1936, Serial No. 98,817. Renewed June 11, 1937. In Canada June 28, 1935
4 Claims. (Cl. 181—56)



1. A muffler for internal combustion engines comprising a casing affording a full length main exhaust passage having an intake opening at the front end of the casing and a discharge opening at the rear end of the casing, a longitudinally extending back pressure relief conduit arranged in said passage, the front end of said conduit being blocked by a deflecting wall or baffle by which the exhaust gases entering the muffler through the intake opening are directed into the portion of the main exhaust passage end of the conduit being open and positioned immediately adjacent the extreme rear end of the casing so that the escape of gases through the rear end of the conduit is not impeded by back pressure in the main exhaust passage and a plurality of muffling baffles spaced along the portion of the main exhaust passage surrounding said conduit, each of said baffles comprising an annular sheet metal disc slitted radially to provide a plurality of vanes bent at an angle to the general plane of the disc.

2,158,031
CONDENSATION REACTION
Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 26, 1935, Serial No. 46,875
4 Claims. (Cl. 260—496)

1. In a liquid phase process involving an organic condensation reaction of carbon monoxide with a member of the group consisting of olefines, alcohols, and ethers, the steps which comprise effecting the reaction in the presence of boron trifluoride associated with from 1 to 5 mols of water per mol of boron trifluoride and recovering from the products of the reaction boron trifluoride associated with water.

2,158,032
PROCESS OF PRODUCING SYMMETRICAL THIOINDIGO DYES
Herbert August Lubs, Wilmington, Del., and Alfred J. Johnson, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 11, 1938, Serial No. 213,190
6 Claims. (Cl. 260—331)

1. The process of preparing thioindigo dyes from phenyl-thioglycolic acids which comprises

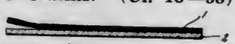
converting a phenyl-thioglycolic acid to the corresponding acid halide in an anhydrous suspension medium, ring closing the said acid halide to the corresponding thioindoxyl without isolation from the said suspension medium, diluting with aqueous caustic alkali containing an alkali metal carbonate until the reaction mass is faintly alkaline, distilling out the said suspension medium, solubilizing the thioindoxyl, separating the insoluble by-products and oxidizing the thioindoxyl to the dye.

2,158,033

METHOD OF MAKING CELLULAR MATERIAL

Carlos J. McKinney, Detroit, Mich., assignor of one-half to James S. Reid, Shaker Heights, Ohio

Original application March 4, 1936, Serial No. 67,051. Divided and this application February 10, 1937, Serial No. 125,019
13 Claims. (Cl. 18—58)



5. The process of preparing cellular material which comprises spraying against a surface a composition containing a material having binding and sound insulating properties and which sets in the presence of air and a compound which is capable upon reaction with a second compound to form a gas, and simultaneously spraying the second compound against said surface to form said gas during the setting of said material.

2,158,034

SILICON CARBIDE ABRASIVE PRODUCT AND METHOD OF MANUFACTURE

Lowell H. Milligan and Robert H. Lombard, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

No Drawing. Application January 28, 1937, Serial No. 122,790
8 Claims. (Cl. 51—280)

5. A vitrifiable ceramic bond comprising a prefired granulated frit combined with material capable of proving the required plasticity and viscosity for bonding silicon carbide grains, the frit constituting at least 50% of the total mass, and at least 90% of the total bond containing SiO_2 within the range of 45% to 70%, B_2O_3 within the range of 15% to 40% and alkali metal oxide within the range of 3% to 10%, and the bond being relatively acidic in nature and capable of maturing at a temperature between 860° and 1040° C. without reacting materially with silicon carbide grains bonded thereby.

2,158,035

HIGH TEMPERATURE REFRACTORY

John D. Morgan, South Orange, N. J., and Russell E. Lowe, New York, N. Y., assignors to Power Patents Company, Hillside, N. J., a corporation of Maine

No Drawing. Application June 27, 1936, Serial No. 87,662
5 Claims. (Cl. 106—9)

1. The method of making a refractory composition suitable for shaping and heat hardening comprising mixing about 40 parts by weight of milled grain zircon with water to a fluid consistency, adding about 60 parts by weight of ground ferrosilicon, digesting the mixture while in a fluid consistency state for a long period of time at an elevated temperature with about 6 parts by weight of phosphoric acid, then drying and heat-hardening the digested mixture.

2,158,036

HACK SAW STEEL

Harry A. Pavitt, Lockport, N. Y., assignor to Simonds Saw and Steel Co., Fitchburg, Mass., a corporation of Massachusetts

No Drawing. Application August 17, 1938, Serial No. 225,471
4 Claims. (Cl. 75—123)

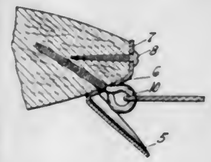
3. An alloy steel substantially free from tungsten, comprising about 1.00% to 1.35% carbon and about .25% to 4% molybdenum as the sole alloying element, the balance being iron containing the usual deoxidizers and impurities.

2,158,037

ARTIFICIAL BAIT

Charles T. Pflueger, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio

Application June 26, 1936, Serial No. 87,475
4 Claims. (Cl. 43—46)



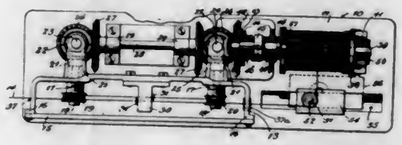
1. An artificial bait comprising the combination with a bait body having a tapered rounded forward end, a metal plate having a forwardly and downwardly directed portion, a reversely bent and transversely arched portion fitting against the underside of the body, and a tip extending upwardly from said last mentioned portion over the front end of the body, and securing means passing through the tip into the bait body.

2,158,038

WIRE DRAWING

David S. Starring, Greens Farms, and George B. Horn, Fairfield, Conn., assignors to Wheeler Insulated Wire Company, Bridgeport, Conn., a corporation of Connecticut

Application August 1, 1936, Serial No. 93,870
6 Claims. (Cl. 205—13)



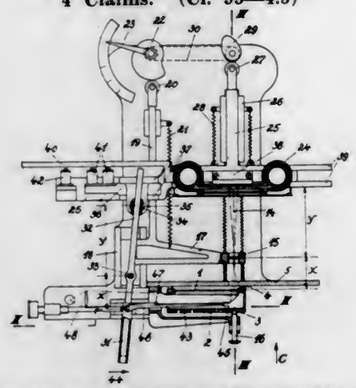
1. In a wire-drawing machine, the combination of a plurality of dies for reducing a wire passing therethrough; a plurality of capstans for drawing the wire through all but the last die; power means for driving the capstans; a spool upon which the wire is to be wound for future use, adapted to draw the wire through the last die; separate power means independent of the first-mentioned power means and having a weaker starting torque than the latter, for rotating the spool; and means for starting both power means simultaneously from a common source of energy.

2,158,039

PHOTOGRAPHIC TYPE-COMPOSING MACHINE

Lajos Wenczler, Augsburg, Germany, assignor to Uhertype Aktiengesellschaft of Kubli House, Glarus, Kanton Glarus, Switzerland, a corporation of Switzerland

Application December 5, 1936, Serial No. 114,440
In Germany December 9, 1935
4 Claims. (Cl. 95—4.5)



1. A photographic type-setting machine, comprising in combination with the machine frame and a film-box movable therein, a movable matrix-plate having the characters to be exposed arranged thereon checkerboard fashion and disposed at an angle relative to the sensitized film in said film-box, a fixing plate having perforations corresponding in number and position to the characters on said matrix-plate, the fixing plate and the matrix plate being secured together in parallel planes and movable as a unit in directions parallel to said planes, a means cooperating with the perforations in said fixing plate for holding the latter and said matrix-plate in fixed position with one of the characters on said matrix-plate placed in the optical axis, a source of light, and means adapted to deflect the light rays so as to cause it to strike first said matrix-plate and then the sensitized film.

2,158,040

PROCESS FOR HYDROGENATION OF KETONES

Joseph Blumenfeld, Paris, France

No Drawing. Application October 24, 1938, Serial No. 236,781. In France October 14, 1937
5 Claims. (Cl. 260—638)

1. A process of making an alcohol by hydrogenation, which comprises reacting hydrogen gas from an extraneous source upon a ketone while said ketone is in a liquid state, diluted with an alcohol and mixed with a substantially smaller amount of an alcoholate of an alkali metal, while in the presence of a hydrogenation catalyst, the reaction mixture being free from more than 1% of water.

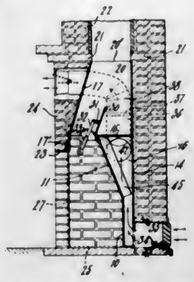
2,158,041

FIREPLACE

James D. Covert, Larchmont, N. Y.

Application July 9, 1936, Serial No. 89,717
5 Claims. (Cl. 126—121)

2. A fireplace air-heating device, comprising a metallic back plate forming a part of a unitary metallic casing comprising an air-heating chamber disposed to the rear of said plate and upon the hearth of the fireplace and having an air-ingress opening therein, a smoke chamber disposed within said casing above said air-heating chamber, an apron disposed forwardly of said back plate and defining with the forward uppermost edge of said back plate a throat communicating with said smoke chamber, supporting



straps for said apron; said apron being integrally connected to said casing and to said straps, which rest on the hearth and connect to a wall of said air-heating chamber, air-egress openings in said casing, and heat-conducting flanges extending into said air-heating chamber and integrally formed with said back plate.

2,158,042

AIR CLEANER

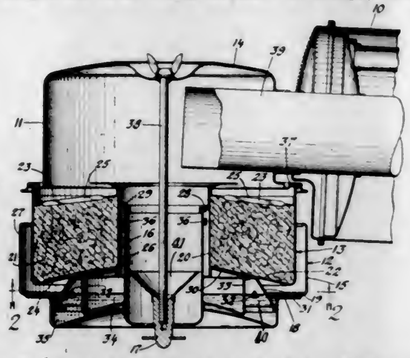
William J. Foster, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 5, 1936, Serial No. 99,559
10 Claims. (Cl. 183—15)

1. In an air cleaner, a body in which there is included a cup-like member which constitutes a liquid reservoir, an annular member which subdivides the reservoir into two chambers of which one encircles the other and communicates with it below but not above the liquid level in the reservoir, an annular member which is disposed within and spaced from the side wall of the cup-shaped member so that it defines therewith a passage through which the air which enters the air cleaner is conducted toward the surface of the liquid in the outer of the mentioned chambers, and a vent through which the inner of the mentioned chambers is connected above the surface of the liquid therein to a region in which the pressure becomes increasingly less with respect to the pressure to which the liquid in the outer chamber is subjected as the rate of flow of air through the air cleaner increases so that the liquid level in the outer chamber will be lowered when the rate of flow of air through the air cleaner increases.

8. In an air cleaner, a body which includes a cup-like member which constitutes a liquid reservoir, a passage through which air which enters the air cleaner is conducted downwardly toward the surface of the liquid in the reservoir, over the surface of the liquid in the reservoir and then upwardly away from the surface of the liquid in the reservoir, means in the last mentioned section of the passage to remove from the air dirt and liquid picked up by it from the supply in the reservoir, a baffle which extends from below to above the liquid level in the reservoir in the path of travel of the air over the surface of the liquid in the reservoir and shields one but not another portion of the surface of the liquid in the reservoir from the current of air which passes through the air cleaner, and an orifice

through which liquid may pass from one side to the other of the baffle below the liquid level in the reservoir offset toward the last mentioned section of the passage out of the line of travel of air through the first mentioned section of the passage, the baffle being inclined so steeply down-



wardly toward the lower end of the first mentioned section of the passage and the orifice that the velocity pressure of the air opposes passage of liquid through the orifice into the portion of the reservoir whose surface is not shielded by the baffle.

2,158,043

SELF-PRESERVING SEMISOLID FOOD PRODUCT FROM DISTILLER'S SLOP

William P. M. Greick, Baltimore, Md.

No Drawing. Application February 23, 1938, Serial No. 192,067

4 Claims. (Cl. 99—5)

3. A process for the preparation of a self-preserving acid food product of semi-solid consistency from distillers' slop, which comprises separating its suspended fibrous solids in semi-solid form to contain substantially 70% of moisture, concentrating the remaining fluid containing the soluble solids by removing a quantity of moisture so as to contain substantially 30% total solids including a preservative quantity of lactic acid substantially equal to one twelfth by weight of the combined suspended and soluble solids, combining the mass containing the suspended fibrous solids with the concentrate containing the soluble solids, grinding to a smooth paste, and then packing in air-tight containers.

2,158,044

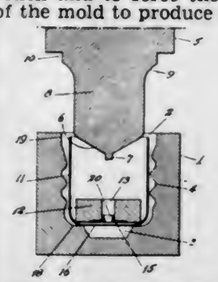
METHOD OF MAKING CONTACTOR BASES FOR ELECTRIC LAMPS, TUBES, AND THE LIKE

Cyrus W. Haller, Marblehead, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts

Application November 30, 1935, Serial No. 52,286

2 Claims. (Cl. 18—59)

1. The method of making a contactor base for electric devices which includes the steps of supporting an unthreaded thin-walled cylindrical blank metal shell within an internally threaded mold, attaching a metal eyelet to the surface of a cylindrical pellet of compressed powdered heat hardening moldable insulation, placing the pellet in the shell in the mold in a position such that the pellet is supported by the shell and spaced from the bottom of the mold, the eyelet being at the bottom of the pellet, forcing a die into the mold into pinning engagement with the eyelet to center the latter and to force the insulation against the shell and to force the shell against the thread of the mold to produce screw threads



in the shell, heating said insulation to its heat-hardening temperature and afterward removing the moulded contactor base from the mold.

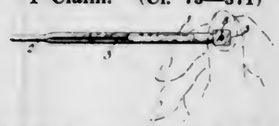
2,158,045

THERMOMETER

Charles R. Palmer, Glen Acres, Ohio, assignor to The Palmer Company, Norwood, Ohio, a corporation of Ohio

Application January 24, 1938, Serial No. 186,502

1 Claim. (Cl. 73—371)



A clinical thermometer comprising, a tube having a bore therein, a bulb adapted to house a thermally expansive fluid, a lens portion and a finger tab integrally connected with the tube, said finger tab having flat surfaces approximately perpendicular to a line drawn from the bore to the outer extremity of the tube, bisecting the lens portion, said flat surfaces being spaced apart a distance less than the thickness of the tube, to support the fingers of a holder of the tube while the thermally expansive fluid is being manually shaken down in the tube.

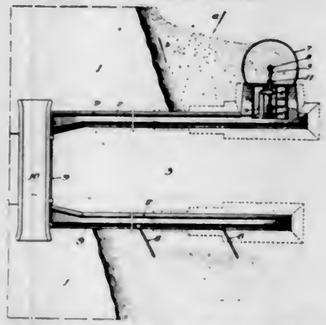
2,158,046

BEACH MAINTAINING APPARATUS AND A BEACH MAINTAINING METHOD

Edmund J. Prendergast, Delray, Fla., assignor of one-half to Edwin B. H. Tower, Jr., Milwaukee, Wis.

Application March 15, 1937, Serial No. 130,842

4 Claims. (Cl. 61—3)



1. Beach maintaining apparatus, comprising the combination with a jetty or other obstruction projecting from a beach into the sea, of a sump arranged on the windward side of said jetty to accumulate sand from the waves and littoral current, a suction pipe arranged to draw sand from said sump, a pump connected to said suction pipe to create suction therein, and a discharge pipe arranged to deliver said sand from said pump into the sea near the shore to the leeward of said jetty.

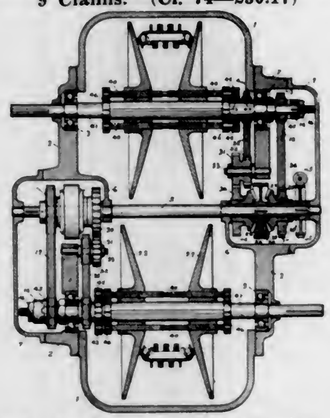
2,158,047

VARIABLE SPEED TRANSMISSION

Milton T. Weston, Red Bank, N. J.

Application April 9, 1937, Serial No. 135,917

9 Claims. (Cl. 74—230.17)



8. In a variable speed transmission, a main gear element revolvably mounted in a power shaft, a drive member attached to said main gear element by which it is normally driven with respect to said power shaft and continuous positive driving means between said power shaft and said drive member on said main gear element, said continuous driving means being exterior to said power shaft and comprising a separately mounted pinion-carrying member, revolvable gear members co-operating with said pinion-carrying member on opposite sides thereof, dual drive connections, between respectively the said power shaft, the said drive member attached to said main gear element, and corresponding revolvable gear members co-operating with said pinion-carrying member, a separately mounted shaft on which said pinion-carrying member and the co-operating revolvable gear members are mounted, and other gear members co-operating with said separately mounted shaft to alter the normal speed of said main gear element with respect to the speed of said power shaft.

2,158,048

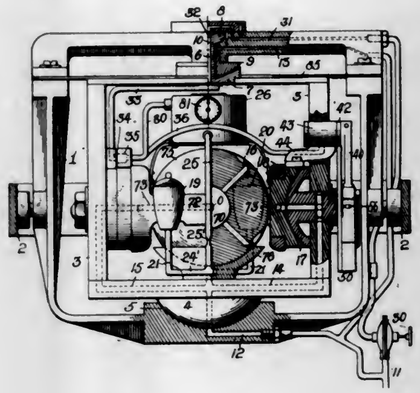
CONSTANT PERIOD GYROCOMPASS

Frederick D. Braddon, Babylon, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application May 1, 1937, Serial No. 140,088

15 Claims. (Cl. 33—226)

2. In an air borne gyro-compass, the combination with the air bearings, a source of differential air pressure, air pressure means for controlling the gravitational factor, separate air passageways connecting said source with said bearings and with said pressure means, and means in the latter passage for varying the effective air pressure with latitude.



10. In a liquid-controlled gyro-compass, means for varying the gravitational factor comprising spaced containers for the liquid having a tapered interior fixed wall, and means exterior of said containers for varying the mean level of the liquid therein to alter the free surface thereof without disturbing the gyrocompass.

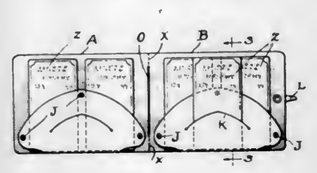
2,158,049

PACKET FOR SAFETY RAZOR BLADES

Arthur J. Farmer, Chicago, Ill., Martin J. O'Brien administrator of said Arthur J. Farmer, deceased

Application September 25, 1937, Serial No. 165,743

7 Claims. (Cl. 206—46)



1. A package for safety razor blades comprising an elongated blank weakened at an intermediate point to form a pair of hinged backing sheets each including integral side extensions, each side extension being folded against its respective leaf and secured thereto by equidistant securing means forming spaced blade receiving pockets, and a slot formed in each of said extensions providing an intermediate pocket.

DESIGNS

MAY 9, 1939

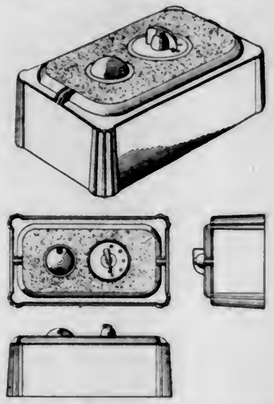
114,628

DESIGN FOR AN ELECTRICAL INSTRUMENT CASING

Albert G. Babo, South Pasadena, Calif., assignor to The Birtcher Corporation, Los Angeles, Calif., a corporation of California

Application February 13, 1939, Serial No. 82,943

Term of patent 7 years



The ornamental design for an electrical instrument casing, as shown.

114,629

DESIGN FOR A COMBINED PENCIL SHARPENER, LETTER OPENER, ERASER, AND BOTTLE CAP REMOVER

Frank J. Becker, Independence, Mo., assignor of one-half to Charles T. Bombeck, Sr., Kansas City, Mo.

Application January 19, 1939, Serial No. 82,444

Term of patent 7 years



The ornamental design for a combined pencil sharpener, letter opener, eraser, and bottle cap remover, as shown.

114,630

DESIGN FOR AN AUTOMOBILE GEAR SHIFT KNOB OR SIMILAR ARTICLE

George Berkson, Chicago, Ill.

Application December 9, 1938, Serial No. 81,686

Term of patent 14 years



The ornamental design for an automobile gear shift knob or similar article, as shown and described.

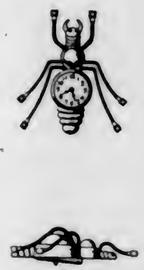
114,631

DESIGN FOR A WATCHCASE

Ben de Frece Bernstein, New York, N. Y.

Application March 15, 1939, Serial No. 83,579

Term of patent 3½ years



The ornamental design for a watchcase, as shown.

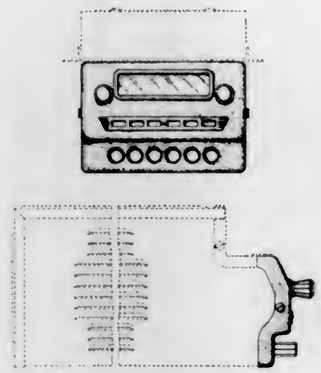
114,632

DESIGN FOR AN AUTOMOBILE RADIO SET

Gordon G. Brittan, Hubbard Woods, Ill., assignor to Warwick Manufacturing Corporation, Chicago, Ill., a corporation of Delaware

Application July 5, 1938, Serial No. 78,261

Term of patent 3½ years



The ornamental design for an automobile radio set, as shown and described.

114,633

DESIGN FOR A SHOE

Herman B. Delman, New York, N. Y.

Application January 18, 1939, Serial No. 82,405

Term of patent 3½ years



The ornamental design for a shoe, as shown and described.

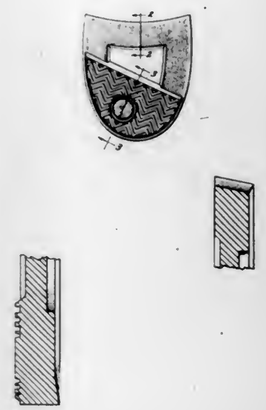
114,634

DESIGN FOR A HEEL

Kenneth C. Demick, Boston, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application March 22, 1939, Serial No. 83,775

Term of patent 14 years



The ornamental design for a heel, as shown.

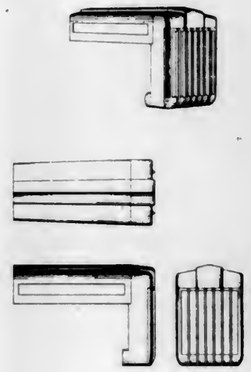
114,635

DESIGN FOR A COMBINED TRACTOR RADIATOR COVER AND HOOD

Henry Dreyfuss, New York, N. Y., assignor to John Deere Tractor Company, Waterloo, Iowa, a corporation of Iowa

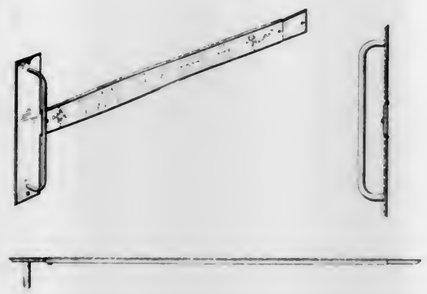
Application March 13, 1939, Serial No. 83,566

Term of patent 14 years



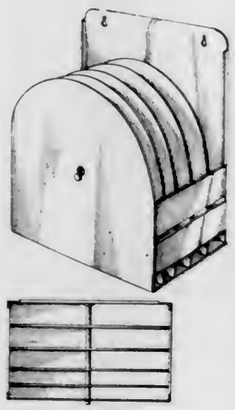
The ornamental design for a combined tractor radiator cover and hood, as shown.

114,636
DESIGN FOR AN ADVERTISING DOOR PULL
Ernest R. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa, a corporation of Iowa
Application February 20, 1939, Serial No. 83,108
Term of patent 7 years



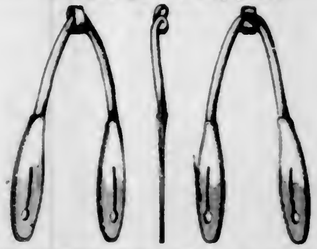
The ornamental design for an advertising door pull, substantially as shown and described.

114,637
DESIGN FOR A DISPENSING CABINET
Norman E. Heil, Ridgewood, and John O. Camp, Glen Rock, N. J.
Application September 26, 1938, Serial No. 80,106
Term of patent 14 years



The ornamental design for a dispensing cabinet, as shown.

114,638
DESIGN FOR A SUSPENDER END OR THE LIKE
Daniel T. Manning, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application December 12, 1938, Serial No. 81,745
Term of patent 3½ years



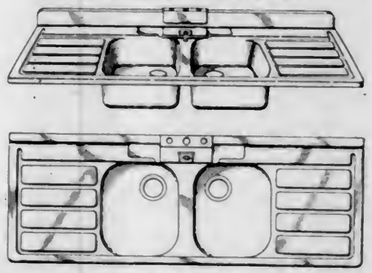
The ornamental design for a suspender end or the like, as shown.

114,639
DESIGN FOR A DOOR STOP
Edward W. Menger, San Antonio, Tex.
Application March 7, 1939, Serial No. 83,401
Term of patent 14 years



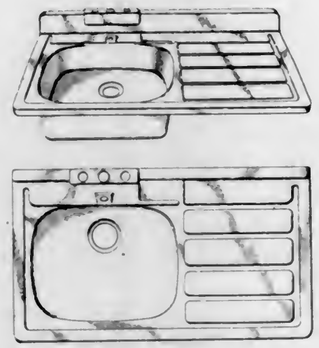
The ornamental design for a door stop, as shown.

114,640
DESIGN FOR A SINK
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,205
Term of patent 7 years



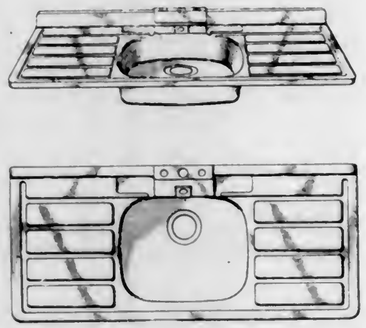
The ornamental design for a sink, as shown.

114,641
DESIGN FOR A SINK
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,206
Term of patent 7 years



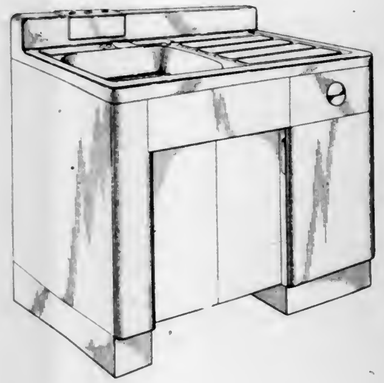
The ornamental design for a sink, as shown.

114,642
DESIGN FOR A SINK
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,207
Term of patent 7 years



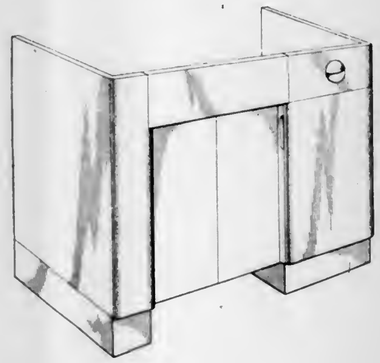
The ornamental design for a sink, as shown.

114,643
DESIGN FOR A COMBINED SINK AND CABINET
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,209
Term of patent 7 years



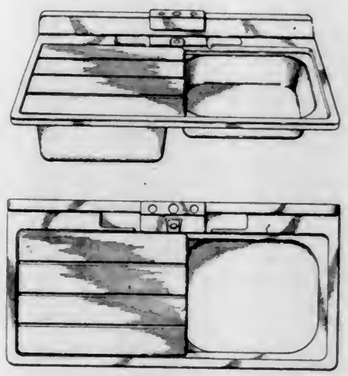
The ornamental design for a combined sink and cabinet, as shown.

114,644
DESIGN FOR A SINK CABINET
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,211
Term of patent 7 years



The ornamental design for a sink cabinet, as shown.

114,645
DESIGN FOR A COMBINED SINK AND DRAIN BOARD
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,212
Term of patent 7 years



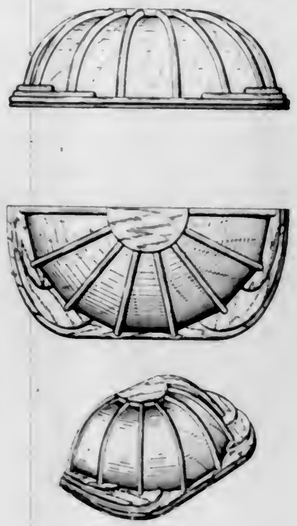
The ornamental design for a combined sink and drain board, as shown.

114,646
DESIGN FOR A ROTARY BACK FOR SUSPENDERS
Albert Oppenheim, Milford, Conn., assignor to The Connecticut Web & Buckle Company, Bridgeport, Conn., a corporation of Connecticut
Application March 1, 1939, Serial No. 83,272
Term of patent 3½ years



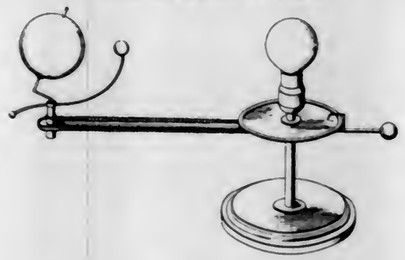
The ornamental design for a rotary back for suspenders, substantially as shown.

114,647
DESIGN FOR A PHONOGRAPH CABINET TOP MEMBER OR THE LIKE
Henry T. Roberts, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application January 3, 1939, Serial No. 82,127
Term of patent 3½ years



The ornamental design for a phonograph cabinet top member or the like, substantially as shown.

114,648
DESIGN FOR A TELLURIAN
Otto A. Schumann, Houston, Tex.
Application January 6, 1939, Serial No. 82,207
Term of patent 14 years



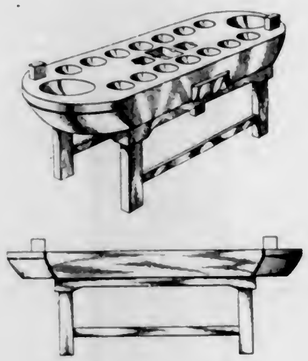
The ornamental design for a tellurian, as shown.

114,649
DESIGN FOR A COMBINED SETTING AND JEWELS
William Simon, Clifton, N. J., assignor to B. F. Hirsch, Inc., New York, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 82,352
Term of patent 14 years



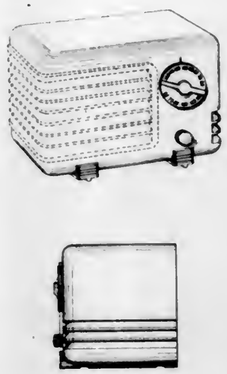
The ornamental design for a combined setting and jewels, substantially as shown.

114,650
DESIGN FOR A GAME TABLE
Pedro G. Valenzuela and Edward S. Castro, Kapapala, Pahala, Kau, Territory of Hawaii
Application December 12, 1938, Serial No. 81,750
Term of patent 7 years



The ornamental design for a game table, as shown.

114,651
DESIGN FOR A RADIO CABINET
George W. Walker, Pleasant Ridge, Mich., assignor to Detrola Corporation, Detroit, Mich., a corporation of Michigan
Application March 29, 1938, Serial No. 76,157
Term of patent 3½ years



The ornamental design for a radio cabinet, substantially as shown and described.

114,652
DESIGN FOR A PERFUME BOTTLE OR SIMILAR ARTICLE
John D. Buckingham, Chicago, Ill., assignor to Lucien LeLong, Inc., Chicago, Ill., a corporation of Illinois
Application September 19, 1938, Serial No. 79,970
Term of patent 7 years



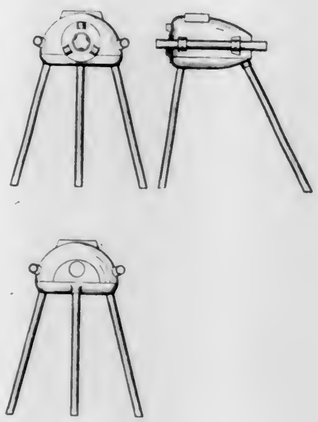
The ornamental design for a perfume bottle or similar article, as shown.

114,653
DESIGN FOR A PERFUME BOTTLE DISPLAY AND HOLDER THEREFOR
John D. Buckingham, Chicago, Ill., assignor to Lucien LeLong, Inc., Chicago, Ill., a corporation of Illinois
Application September 19, 1938, Serial No. 79,971
Term of patent 7 years



The ornamental design for a perfume bottle display and holder therefor, as shown.

114,654
DESIGN FOR A POWER DRIVEN PIPE STAND
William M. Emery, Cleveland Heights, and Arthur S. Gould, Lakewood, Ohio, assignors to The Oster Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application October 7, 1938, Serial No. 80,312
Term of patent 7 years



The ornamental design for a power driven pipe stand, as shown.

114,655
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application April 8, 1939, Serial No. 84,143
Term of patent 3½ years



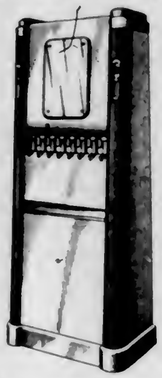
The ornamental design for a brooch or similar article, substantially as shown.

114,656
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application April 8, 1939, Serial No. 84,146
Term of patent 3½ years



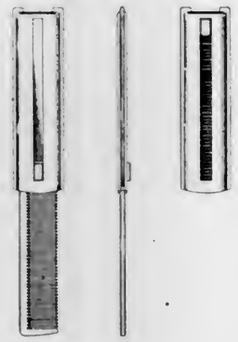
The ornamental design for a brooch or similar article, substantially as shown.

114,657
DESIGN FOR A VENDING MACHINE CASING OR THE LIKE
Fairfield W. Hoban, New York, N. Y., assignor to Stewart and McGuire, Incorporated, New York, N. Y., a corporation of New York
Application August 18, 1938, Serial No. 79,427
Term of patent 7 years



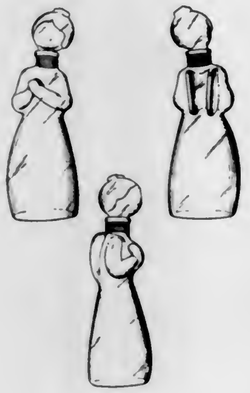
The ornamental design for a vending machine casing or the like, as shown.

114,658
DESIGN FOR A COMBINATION COMB AND CASE
Lester Kahn, Upper Montclair, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 2, 1938, Serial No. 79,029
Term of patent 3½ years



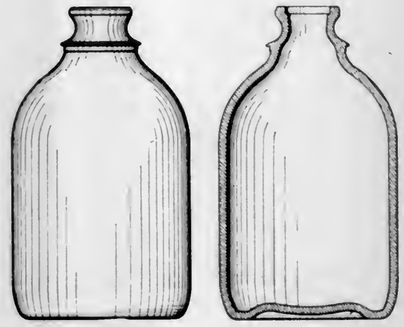
The ornamental design for a combination comb and case, substantially as shown and described.

114,659
DESIGN FOR A BOTTLE
Martine Kane, New York, N. Y., assignor to Helena Rubenstein, Inc., New York, N. Y., a corporation of New York
Application January 4, 1939, Serial No. 82,139
Term of patent 7 years



The ornamental design for a bottle, as shown.

114,660
DESIGN FOR A BOTTLE
Richard D. Kerckhoff, Richmond Heights, Mo., assignor to Pevely Dairy Company, St. Louis, Mo., a corporation of Missouri
Application March 21, 1939, Serial No. 83,737
Term of patent 14 years



The ornamental design for a bottle, substantially as shown.

114,661
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jacques H. Leff, New York, N. Y.
Application April 6, 1939, Serial No. 84,083
Term of patent 3½ years



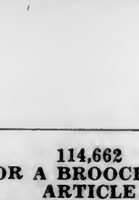
The ornamental design for a brooch or similar article, substantially as shown.

114,662
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jacques H. Leff, New York, N. Y.
Application April 6, 1939, Serial No. 84,084
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

114,663
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jacques H. Leff, New York, N. Y.
Application April 6, 1939, Serial No. 84,085
Term of patent 3½ years



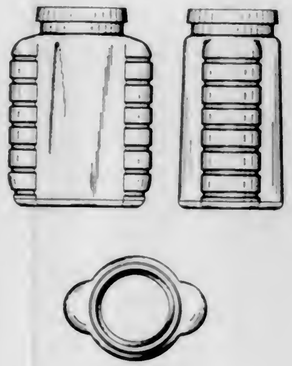
The ornamental design for a brooch or similar article, substantially as shown.

114,664
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jacques H. Leff, New York, N. Y.
Application April 8, 1939, Serial No. 84,160
Term of patent 3½ years



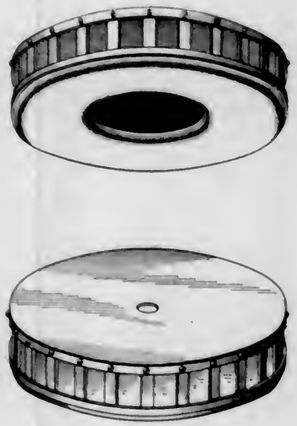
The ornamental design for a brooch or similar article, substantially as shown.

114,665
DESIGN FOR A JAR
Olbert C. Noble, Washington, Pa., assignor to Tygart Valley Glass Company, Washington, Pa., a corporation of West Virginia
Application February 27, 1939, Serial No. 83,217
Term of patent 7 years



The ornamental design for a jar, as shown.

114,666
DESIGN FOR A HOUSING FOR AN AIR CONDITIONING EXPANSION COIL AND FAN
Harold B. Parker, Pratt, Kans.
Application August 4, 1938, Serial No. 79,090
Term of patent 14 years



The ornamental design for a housing for an air conditioning expansion coil and fan, substantially as shown.

114,667
DESIGN FOR A BOTTLE OR SIMILAR CONTAINER
Grace Chess Robinson, New York, N. Y.
Application March 10, 1939, Serial No. 83,496
Term of patent 14 years



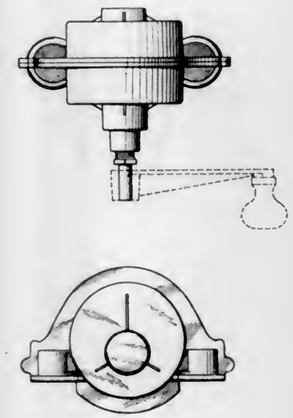
The ornamental design for a bottle or similar container, as shown.

114,668
DESIGN FOR A COMBINED CLOCK AND SMOKING STAND
James Madison Walkley, Akron, Ohio, assignor of twenty-five per cent to James W. Shelton, twenty-five per cent to Richard P. Kelley, and fifteen per cent to Edward Helchelbech, Akron, Ohio
Application December 22, 1938, Serial No. 81,948
Term of patent 3½ years



The ornamental design for a combined clock and smoking stand, as shown.

114,669
DESIGN FOR A PUMP
Charles G. Walters, Storm Lake, and Karl R. Knowles, Spencer, Iowa
Application March 11, 1939, Serial No. 83,512
Term of patent 14 years



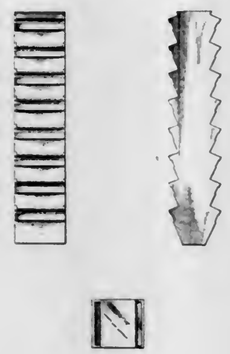
The ornamental design for a pump, substantially as shown and described.

114,670
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Douglas Bourne, Syracuse, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application March 6, 1939, Serial No. 83,380
Term of patent 14 years



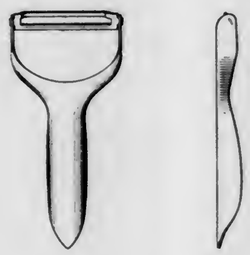
The ornamental design for a plate or similar article, substantially as shown.

114,671
DESIGN FOR A PHONOGRAPH RECORD RACK
Walter F. Brotzman and Benjamin Harry Statter, Baltimore, Md., assignors to Display Center, Baltimore, Md.
Application January 24, 1939, Serial No. 82,565
Term of patent 14 years



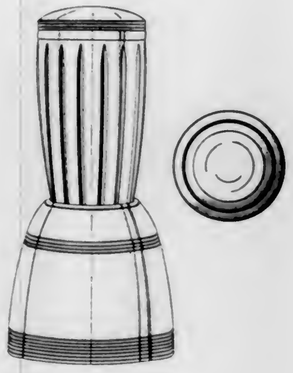
The ornamental design for a phonograph record rack, as shown.

114,672
DESIGN FOR A COMBINED SLICER AND CORER
Gerald N. Coughlan, East Orange, N. J.
Application December 27, 1938, Serial No. 82,000
Term of patent 7 years



The ornamental design for a combined slicer and corer, substantially as shown.

114,673
DESIGN FOR A COCKTAIL SHAKER
Andrew Cravaritis, New York, N. Y., assignor to National Silver Deposit Ware Co., Inc., New York, N. Y., a corporation of New York
Application February 25, 1939, Serial No. 83,205
Term of patent 7 years



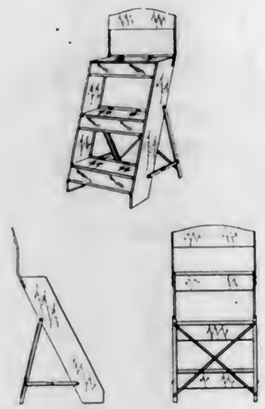
The ornamental design for a cocktail shaker, substantially as shown.

114,674
DESIGN FOR A DISPLAY STAND
Arthur R. Gross, St. Paul, Minn.
Application January 21, 1939, Serial No. 82,519
Term of patent 7 years



The ornamental design for a display stand, as shown.

114,675
DESIGN FOR A DISPLAY STAND
Arthur R. Gross, St. Paul, Minn.
Application February 23, 1939, Serial No. 83,151
Term of patent 7 years



The ornamental design for a display stand, as shown.

114,676
DESIGN FOR AN ASHTRAY
Frank B. Hoffman, Chicago, Ill.
Application September 22, 1938, Serial No. 80,042
Term of patent 3½ years



The ornamental design for an ash tray, as shown.

114,677
DESIGN FOR A BOTTLE OR SIMILAR CONTAINER
Walter M. Jakway, Hollywood, Calif.
Application January 18, 1939, Serial No. 82,402
Term of patent 7 years



The ornamental design for a bottle or similar container, as shown.

114,678
DESIGN FOR AN ATOMIZER
Earl M. James, Maplewood, Mo.
Application March 16, 1939, Serial No. 83,605
Term of patent 7 years



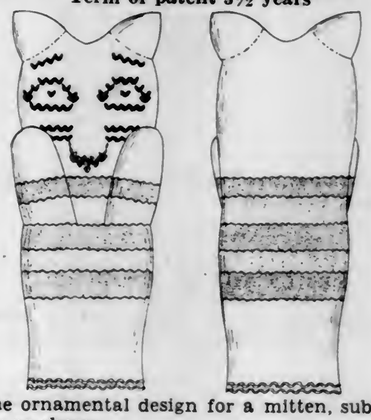
The ornamental design for an atomizer, as shown.

114,679
DESIGN FOR AN ASHTRAY
Louis J. Hendler, San Francisco, Calif.
Application August 26, 1938, Serial No. 79,579
Term of patent 3½ years



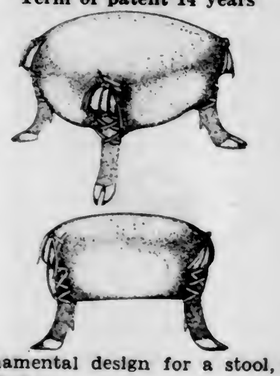
The ornamental design for an ashtray, as shown.

114,680
DESIGN FOR A MITTEN
Kathryn Dallas Henderson, New York, N. Y.
Application April 3, 1939, Serial No. 84,008
Term of patent 3½ years



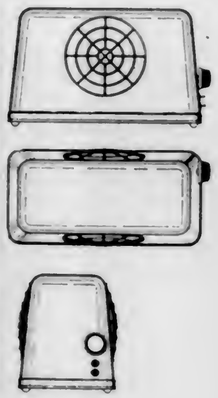
The ornamental design for a mitten, substantially as shown.

114,681
DESIGN FOR A STOOL
Homer G. Kellogg, Highland Park, Mich.
Application March 20, 1939, Serial No. 83,717
Term of patent 14 years



The ornamental design for a stool, substantially as shown.

114,682
DESIGN FOR A COMBINED AIR CONDITIONER AND OZONIZER
John E. Kenney, Portland, Oreg.
Application March 8, 1938, Serial No. 75,654
Term of patent 7 years



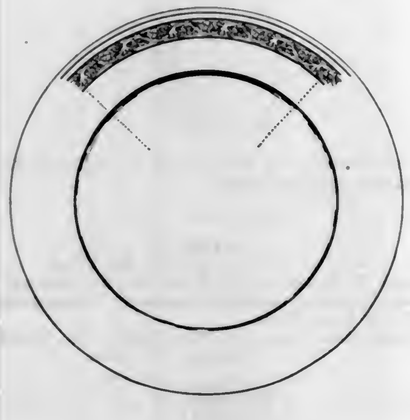
The ornamental design for a combined air conditioner and ozonizer, as shown.

114,683
DESIGN FOR A COLOR PSYCHOANALYSIS DEVICE
Ivor Kenway, New York, N. Y., assignor to Devoe & Raynolds Co., Inc., a corporation of New York
Application January 28, 1939, Serial No. 82,650
Term of patent 7 years



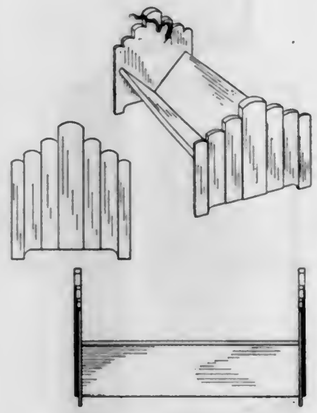
The ornamental design for a color psychoanalysis device, as shown.

114,684
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Cyril W. Leigh, East Orange, N. J., assignor to Morimura Bros. Inc., New York, N. Y., a corporation of Japan
Application January 5, 1939, Serial No. 82,156
Term of patent 7 years



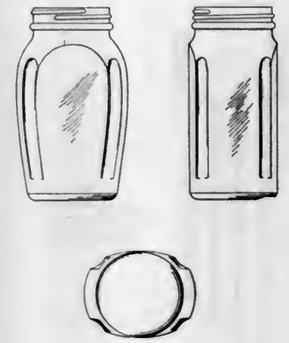
The ornamental design for a plate or similar article, as shown and described.

114,685
DESIGN FOR A CRACKER TRAY
Pearl W. Mikesell, Dayton, Ohio
Application August 8, 1938, Serial No. 79,196
Term of patent 14 years



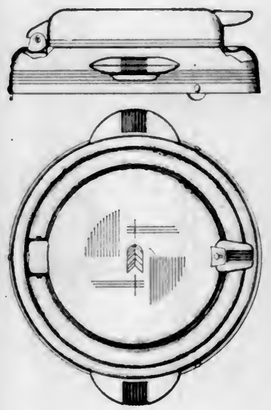
The ornamental design for a cracker tray, substantially as shown.

114,686
DESIGN FOR A GLASS JAR
Fred J. Petty, Muncie, Ind., assignor to Ball Brothers Company, Muncie, Ind., a corporation of Indiana
Application March 8, 1939, Serial No. 83,441
Term of patent 7 years



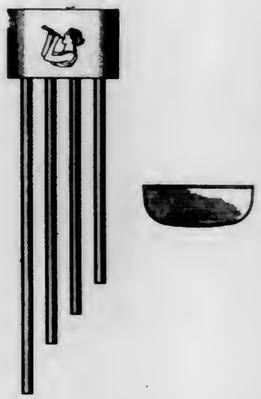
The ornamental design for a glass jar, substantially as shown.

114,687
DESIGN FOR A WAFFLE IRON OR SIMILAR ARTICLE
August A. Propernick, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application September 1, 1938, Serial No. 79,663
Term of patent 14 years



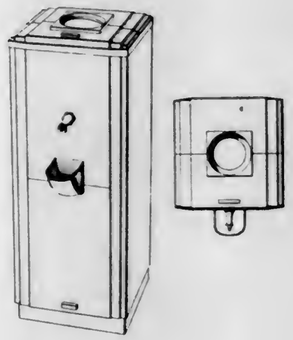
The ornamental design for a waffle iron or similar article, substantially as shown.

114,688
DESIGN FOR A SIGNAL DEVICE
Lloyd Rittenhouse, Honeoye Falls, and Sidney M. Crossett, Rochester, N. Y., assignors to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Application July 20, 1938, Serial No. 78,604
Term of patent 3½ years



The ornamental design for a signal device, as shown and described.

114,689
DESIGN FOR A WATER COOLER CABINET
Edgar A. Self, Bronxville, N. Y., assignor to Cordley & Hayes, New York, N. Y., a corporation of New York
Application July 2, 1938, Serial No. 78,235
Term of patent 7 years



The ornamental design for a water cooler cabinet, substantially as shown.

114,690
DESIGN FOR A DRINKING GLASS
James E. Spence, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application May 16, 1938, Serial No. 77,231
Term of patent 14 years



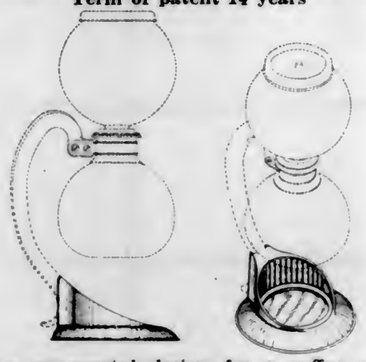
The ornamental design for a drinking glass, as shown and described.

114,691
DESIGN FOR A SPACE HEATER
Walter D. Teague, New York, N. Y., assignor to American Gas Machine Company, Incorporated, Albert Lea, Minn.
Application June 29, 1938, Serial No. 78,140
Term of patent 3½ years



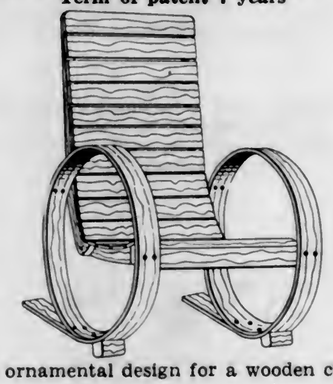
The ornamental design for a space heater, substantially as shown and described.

114,692
DESIGN FOR A COFFEE MAKER
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, a corporation of Connecticut
Application August 8, 1938, Serial No. 79,173
Term of patent 14 years



The ornamental design for a coffee maker, substantially as shown and described.

114,693
DESIGN FOR A WOODEN CHAIR
Clarence Hudson Wood, South Lancaster, Mass.
Application March 11, 1939, Serial No. 83,527
Term of patent 7 years



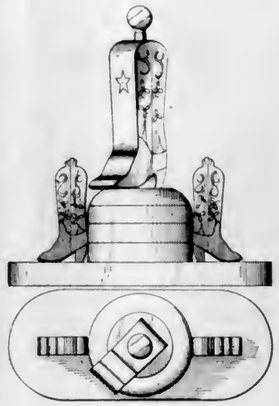
The ornamental design for a wooden chair, as shown.

114,694
DESIGN FOR A FLEXIBLE POCKET RECEPTACLE
Warner R. Buxton, Longmeadow, Mass.
Application March 16, 1939, Serial No. 83,615
Term of patent 14 years



The ornamental design for a flexible pocket receptacle, substantially as shown and described.

114,695
DESIGN FOR A LAMP
Charles A. Christoph, Amarillo, Tex.
Application February 16, 1939, Serial No. 83,240
Term of patent 7 years



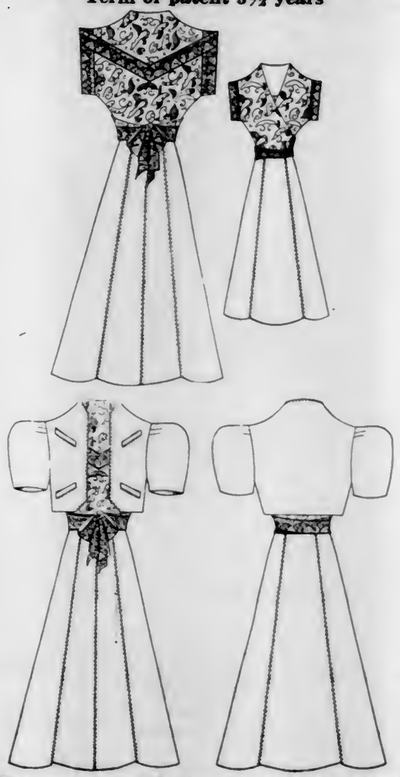
The ornamental design for a lamp, as shown.

114,696
DESIGN FOR A BRACKET FOR BATHROOM FIXTURES
James J. Connors, Meriden, Conn., assignor to The Charles Parker Company, Meriden, Conn., a corporation of Connecticut
Application August 2, 1938, Serial No. 79,042
Term of patent 3½ years



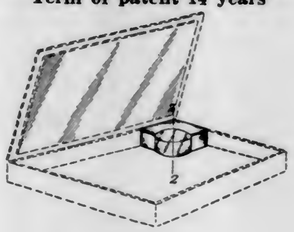
The ornamental design for a bracket for bathroom fixtures, as shown.

114,697
DESIGN FOR A DRESS ENSEMBLE
Tora Coleman, New York, N. Y.
Application March 23, 1939, Serial No. 83,782
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

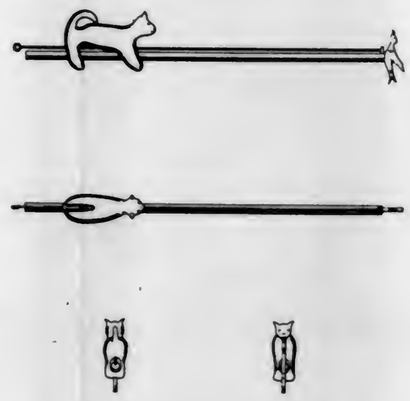
114,698
DESIGN FOR AN ILLUMINABLE VANITY CASE OR SIMILAR ARTICLE
George M. Cressaty, New York, N. Y.
Application June 14, 1938, Serial No. 77,833
Term of patent 14 years





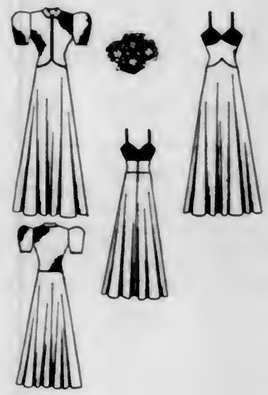
The ornamental design for an illuminable vanity case or similar article, substantially as shown and described.

114,699
DESIGN FOR A TOY
Anna Danescu, Detroit, Mich.
Application January 10, 1939, Serial No. 82,268
Term of patent 3½ years



The ornamental design for a toy, as shown.

114,700
DESIGN FOR A DRESS ENSEMBLE
Charlotte Flusser, New York, N. Y.
Application February 20, 1939, Serial No. 83,097
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown and described.

114,701
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,205
Term of patent 3½ years



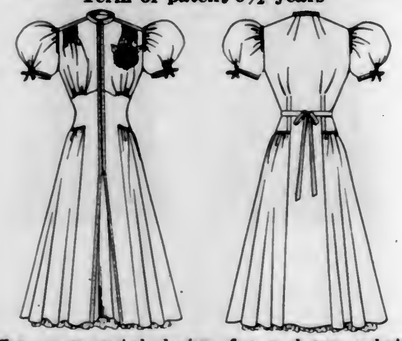
The ornamental design for a dress, substantially as shown.

114,702
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,206
Term of patent 3½ years



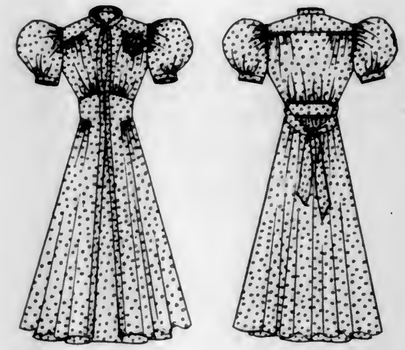
The ornamental design for a dress, substantially as shown.

114,703
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,207
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,704
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,211
Term of patent 3½ years



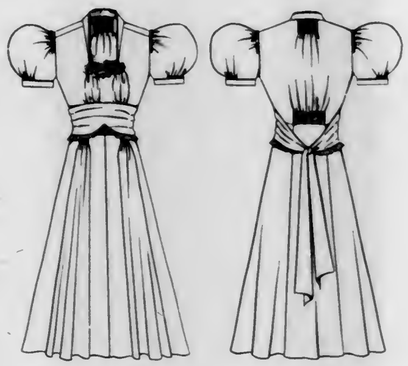
The ornamental design for a dress, substantially as shown.

114,705
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,212
Term of patent 3½ years



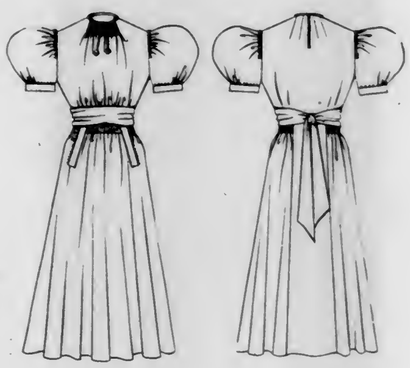
The ornamental design for a dress, substantially as shown.

114,706
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,213
Term of patent 3½ years



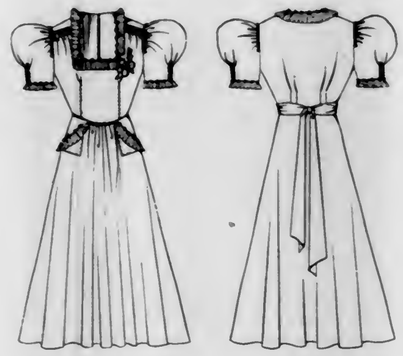
The ornamental design for a dress, substantially as shown.

114,707
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,216
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,708
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,219
Term of patent 3½ years



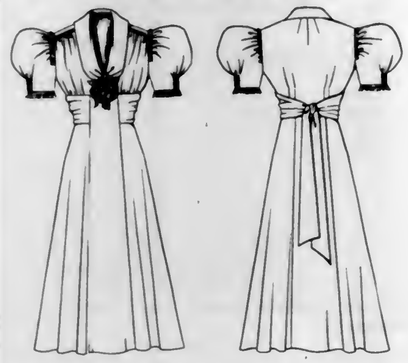
The ornamental design for a dress, substantially as shown.

114,709
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,221
Term of patent 3½ years



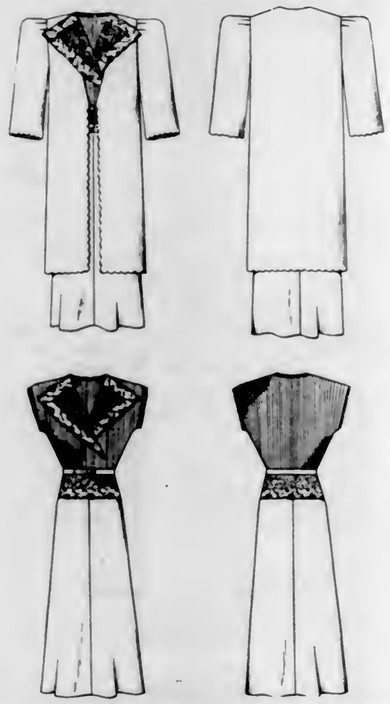
The ornamental design for a dress, substantially as shown.

114,710
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,223
Term of patent 3½ years



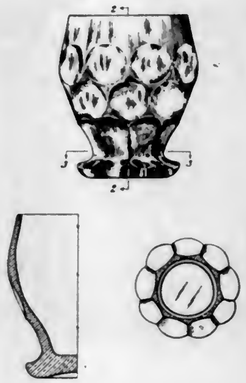
The ornamental design for a dress, substantially as shown.

114,711
DESIGN FOR A DRESS ENSEMBLE
Irving Grobstein, New York, N. Y.
Application March 10, 1939, Serial No. 83,488
Term of patent 3½ years



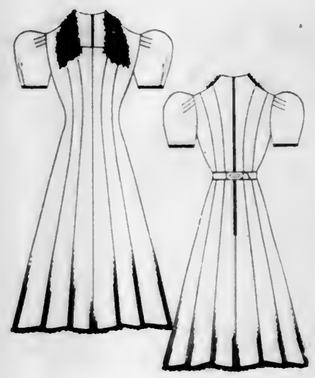
The ornamental design for a dress ensemble, substantially as shown and described.

114,712
DESIGN FOR A GLASS TUMBLER OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application February 6, 1939, Serial No. 82,806
Term of patent 14 years



The ornamental design for a glass tumbler or article of similar nature, substantially as shown.

114,713
DESIGN FOR A DRESS
Ruth Henkin, New York, N. Y.
Application April 4, 1939, Serial No. 84,024
Term of patent 3½ years



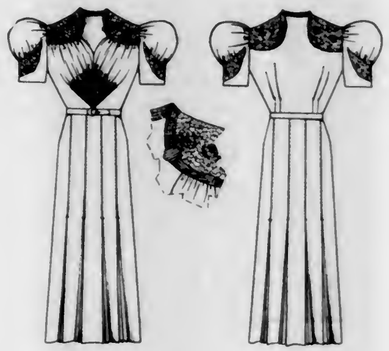
The ornamental design for a dress, substantially as shown.

114,714
DESIGN FOR A DRESS
David Klein, New York, N. Y.
Application April 8, 1939, Serial No. 84,140
Term of patent 3½ years



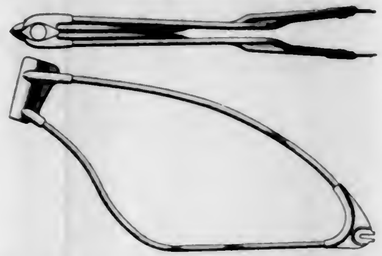
The ornamental design for a dress, substantially as shown.

114,715
DESIGN FOR A DRESS
Morris Massow, New York, N. Y.
Application March 10, 1939, Serial No. 83,490
Term of patent 3½ years



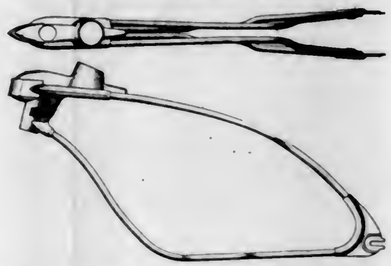
The ornamental design for a dress, substantially as shown.

114,716
DESIGN FOR A BICYCLE FRAME
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 10, 1938, Serial No. 81,005
Term of patent 7 years



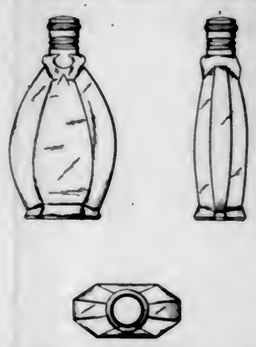
The ornamental design for a bicycle frame, as shown.

114,717
DESIGN FOR A BICYCLE FRAME
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 10, 1938, Serial No. 81,007
Term of patent 7 years



The ornamental design for a bicycle frame, as shown.

114,718
DESIGN FOR A BOTTLE
Paul Peter Mülhens, Cologne, Germany
Application February 7, 1939, Serial No. 82,823
Term of patent 14 years



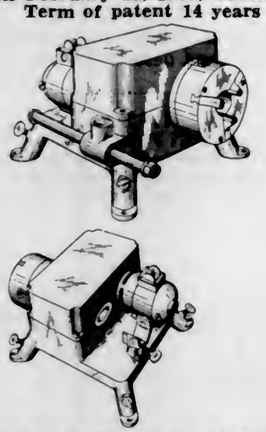
The ornamental design for a bottle, as shown.

114,719
DESIGN FOR A TEXTILE FABRIC
Samuel T. Palay, New York, N. Y.
Application March 17, 1939, Serial No. 83,648
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

114,720
DESIGN FOR AN ELECTRIC POWER DRIVE UNIT FOR USE WITH HAND CUTTING TOOLS
Robert B. Pealer, Warren, Ohio, assignor to Beaver Pipe Tools Inc., Warren, Ohio, a corporation of Ohio
Application February 15, 1939, Serial No. 83,001
Term of patent 14 years



The ornamental design for an electric power drive unit for use with hand cutting tools, substantially as shown.

114,721
DESIGN FOR A BRACELET
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application March 4, 1939, Serial No. 83,330
Term of patent 3½ years



The ornamental design for a bracelet, substantially as shown.

114,722
DESIGN FOR A BRACELET
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application March 4, 1939, Serial No. 83,333
Term of patent 3½ years



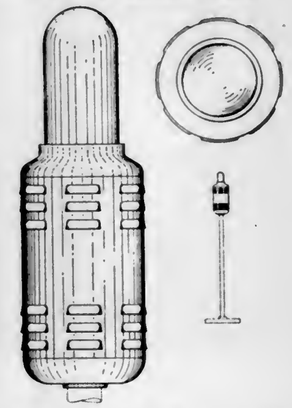
The ornamental design for a bracelet, substantially as shown.

114,723
DESIGN FOR A BRACELET
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application March 4, 1939, Serial No. 83,336
Term of patent 3½ years



The ornamental design for a bracelet, substantially as shown.

114,724
DESIGN FOR A COMBINED VISUAL AND AUDIBLE ALARM
Theodore J. Scofield, Jackson, Mich., assignor to Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application February 27, 1939, Serial No. 83,225
Term of patent 7 years



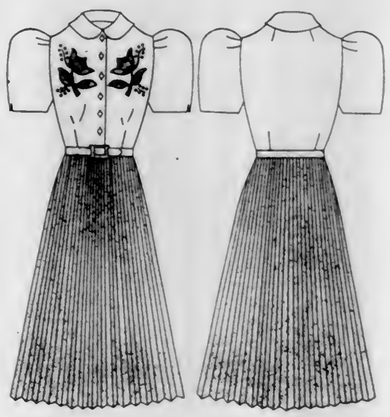
The ornamental design for a combined visual and audible alarm, substantially as shown and described.

114,725
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 13, 1939, Serial No. 84,252
Term of patent 3½ years



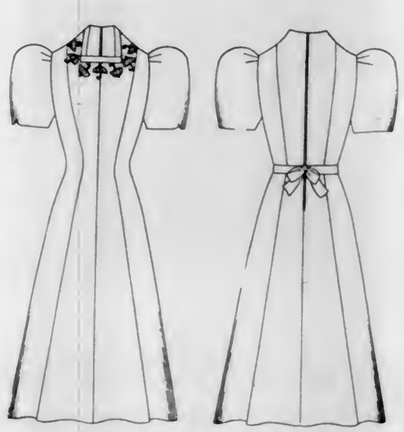
The ornamental design for a dress, substantially as shown and described.

114,726
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 13, 1939, Serial No. 84,247
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,727
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 13, 1939, Serial No. 84,248
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,728
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 13, 1939, Serial No. 84,249
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,729
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 13, 1939, Serial No. 84,251
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,730
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application February 8, 1939, Serial No. 82,855
Term of patent 3½ years



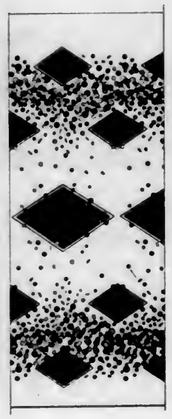
The ornamental design for a dress, substantially as shown and described.

114,731
DESIGN FOR A MASSAGE ROLLER
Paul Tresenberg, New York, N. Y.
Application December 6, 1938, Serial No. 81,607
Term of patent 7 years



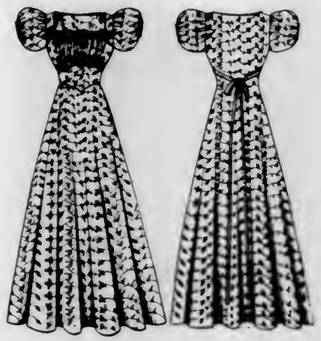
The ornamental design for a massage roller, as shown.

114,732
DESIGN FOR A BREAD WRAPPER
Gordon O. Bennett and Carl A. Deisenroth, Oakland, Calif.
Application February 4, 1939, Serial No. 82,790
Term of patent 14 years



The ornamental design for a bread wrapper, as shown and described.

114,733
DESIGN FOR A DRESS
Rose Feintuck, New York, N. Y.
Application April 8, 1939, Serial No. 84,136
Term of patent 3½ years



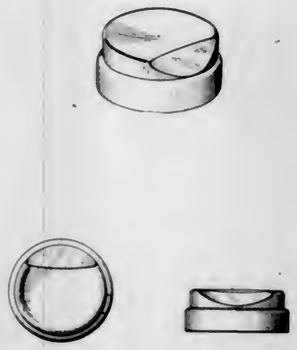
The ornamental design for a dress, substantially as shown.

114,734
DESIGN FOR A DRESS
David Klein, New York, N. Y.
Application April 8, 1939, Serial No. 84,141
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,735
DESIGN FOR A TYPEWRITER KEY TOP
Bernice S. Manus, Brooklyn, N. Y.
Application December 13, 1938, Serial No. 81,759
Term of patent 14 years



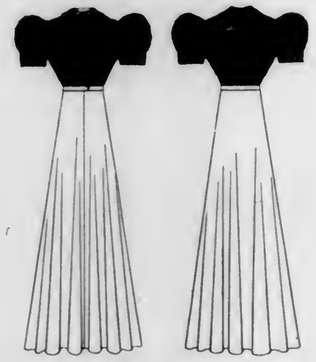
The ornamental design for a typewriter key top, substantially as shown and described.

114,736
DESIGN FOR A DRESS
Marie V. Mascitelli, New York, N. Y.
Application April 14, 1939, Serial No. 84,286
Term of patent 3½ years



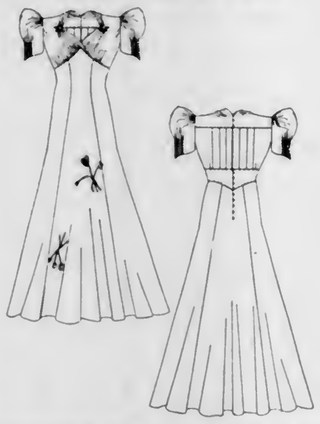
The ornamental design for a dress, substantially as shown.

114,737
DESIGN FOR A DRESS
Margaret Michelson, New York, N. Y.
Application December 9, 1938, Serial No. 81,681
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,738
DESIGN FOR A DRESS
Jack Scharlott, New York, N. Y.
Application April 15, 1939, Serial No. 84,321
Term of patent 3½ years



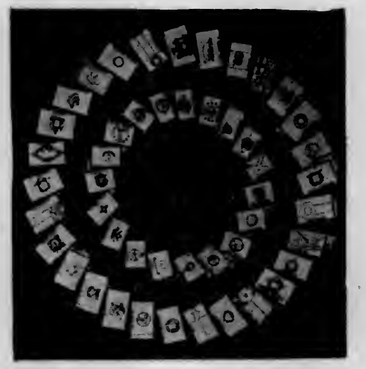
The ornamental design for a dress, substantially as shown.

114,739
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application April 8, 1939, Serial No. 84,137
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,740
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Carina Dondo, New York, N. Y.
Application February 28, 1939, Serial No. 83,253
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, substantially as shown.

Patents Nos. 2,158,050 to 2,158,992

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Total	1,356		

Adjudicated Patents

(C. C. A. Ill.) Long patent, No. 1,383,472, for automatic telephone pay-station, *Held* invalid. *Gray Telephone Pay Station Co.* v. *Western Electric Co.*, 101 F.(2d) 853.

(D. C. Mo.) Wheat patent, No. 1,394,242, for underslung attachment for motor vehicles, *Held* not infringed. *Wheat* v. *Ford Motor Co.*, 26 F. Supp. 578.

(Ct. Cl.) Hamacek patent, No. 1,405,684, for ship, *Held* invalid and not infringed. *A. F. Hamacek Marine Corporation* v. *U. S.*, 26 F. Supp. 467.

(C. C. A. Ark.) Harley patent, No. 1,541,212, for cool cushion and seat, claim 3, if valid, *Held* not infringed. *Kool Kooshion Mfg. Co.* v. *Mitchell Mfg. Co.*, 102 F.(2d) 37.

(D. C. Pa.) Calhoun patent, No. 1,735,261, for flame arrester, claims 1, 3, and 4 *Held* invalid. *Johnstown & Jennings Co.* v. *Neville Co.*, 26 F. Supp. 754.

(C. C. A. Iowa) Baker patent, No. 1,802,700, for nozzle for lubricating systems, *Held* invalid. *Min-A-Max Co.* v. *Sundholm*, 102 F.(2d) 187.

(D. C. Ohio) Sturgis patent, No. 1,840,134, for oil burner, claim 4 *Held* not infringed. *Sturgis* v. *Franklin Oil Heating*, 26 F. Supp. 628.

(C. C. A. R. I.) Swift patent, No. 1,974,883, for manufacture of gold leaf carrier, claims 3 and 5 *Held* invalid. *M. Swift & Sons* v. *W. H. Coe Mfg. Co.*, 102 F.(2d) 391.

(D. C. Pa.) Pecora design patent, No. 98,609, for design for a milk bottle, *Held* not infringed. *Pecora* v. *Modern Sanitary Dairies of Pennsylvania*, 26 F. Supp. 602.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,943,236, R. N. Giles, Dewaxing mineral oils, decided March 7, 1939, claim 13.

Pat. 2,114,189, C. W. Kronmiller, Transformer, decided April 26, 1939, claims 1 and 2.

Disclaimers

1,891,477.—*Mabel C. McCurrach*, Brooklyn, N. Y. Longitudinally Folding Washable Necktie. Patent dated December 20, 1932. Disclaimer filed April 14, 1939, by the patentee.

Hereby enters this disclaimer to claims 1, 2, and 3 of said Letters Patent.

2,035,409.—*Robert F. Ruthruff, Joseph K. Roberts*, and *Morris T. Carpenter*, Hammond, Ind. Olefin Concentration and Polymerization. Patent dated March 24, 1936. Disclaimer filed April 22, 1939, by the assignee, *Standard Oil Company*.

Hereby enters this disclaimer to claims 2 and 13 in said specification.

2,091,212.—*Robert Lincoln McNeil*, Philadelphia, Pa. Bottle and Like Package. Patent dated August 24, 1937. Disclaimer filed April 22, 1939, by the assignee, *McNeil Laboratories, Inc.*

Hereby enters this disclaimer to claim 2 of said Letters Patent.

2,098,910.—*Eli J. Blake*, Haddonfield, N. J. Remote Control System. Patent dated November 9, 1937. Disclaimer filed April 18, 1939, by the assignee, *The Union Switch & Signal Company*.

Hereby disclaims the subject matter of claims 1, 3, 5, 21, 22, 23, 24, 25, 26, 29, 30, 33, 35, 36, and 37 in said patent.

Condition of Applications Under Examination at Close of Business April 29, 1939

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 41,731; Trade-Mark Division, 1,436. Oldest new case, Sept. 16, 1938; oldest amended, Aug. 15, 1938.) (The dates given are 1938 except where † indicates 1939) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Nov. 26	Dec. 9	720
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 5	Nov. 1	651
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Mar. 1	†Mar. 1	318
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	†Jan. 26	†Jan. 12	433
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Jan. 31	†Feb. 6	545
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 14	Oct. 29	1154
5725	7. JARBOE, C. G., Optics; Photography	†Jan. 14	†Jan. 13	898
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Dec. 9	Aug. 15	892
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Jan. 3	†Jan. 5	640
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	†Jan. 3	†Feb. 3	609
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 16	†Jan. 23	447
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Nov. 8	Oct. 19	630
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 12	Nov. 12	687
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Feb. 9	†Feb. 6	447
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 17	Dec. 17	1133
5716	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 23	Nov. 19	806
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 19	Dec. 15	479
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 7	Oct. 9	556
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	†Jan. 6	Dec. 22	428
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	†Feb. 1	†Jan. 23	309
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Dec. 30	Dec. 30	503
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Dec. 20	Dec. 21	802
7624	23. BUTTNER, W. J., Registers (part)	Oct. 4	Oct. 7	284
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 28	Nov. 8	890
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 7	†Jan. 25	461
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Dec. 29	Dec. 29	604
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 20	Aug. 22	1042
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	†Jan. 5	†Jan. 6	469
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Oct. 15	Dec. 8	642
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 14	Nov. 14	873
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	†Jan. 30	†Jan. 30	629
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Dec. 23	Dec. 1	420
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	†Jan. 19	†Jan. 17	660
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	†Feb. 17	Dec. 16	299
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	†Jan. 8	†Jan. 10	583
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Nov. 26	Dec. 3	531
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 8	Oct. 11	675
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Nov. 1	Nov. 12	622
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 25	†Jan. 27	526
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Dec. 3	Dec. 1	1402
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Nov. 26	Nov. 19	311
5882	42. CUTTING, H. O., Electric Signaling	Oct. 14	Oct. 17	642
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Dec. 27	Dec. 21	481
4087B	44. HARVEY, L. P., Refrigeration	Nov. 25	Nov. 1	605
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	†Jan. 9	†Jan. 7	614
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Dec. 12	Dec. 13	661
6082	47. LOWE, E. R., Clutches; Brakes	†Jan. 25	†Jan. 12	369
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Feb. 4	†Feb. 1	383
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 8	Oct. 3	985
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Oct. 29	Oct. 31	1193
5628	51. BACKUS, C. D., Radiant Energy (part)	†Jan. 26	†Jan. 26	681
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 16	†Jan. 3	805
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	†Jan. 12	†Jan. 7	581
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 30	†Feb. 1	317
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Sept. 16	Sept. 19	795
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Nov. 22	Nov. 22	1113
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 20	Dec. 26	437
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	†Jan. 23	†Feb. 1	344
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	†Jan. 18	†Jan. 18	573
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Dec. 23	Dec. 23	445
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Nov. 28	Dec. 2	524
5621	62. PUGH, E. C., Games; Geometrical Instruments	†Feb. 6	†Feb. 10	422
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Dec. 14	Dec. 13	407
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Dec. 24	Dec. 24	873
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Nov. 12	Nov. 23	584
2099B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks	†Mar. 29	†Apr. 12	1436
	{Labels and Prints	†Apr. 24	†Apr. 24	82
2605	DESIGNS: H. H. KALUPY	†Mar. 17	†Apr. 11	867

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

WALSH AND CAPRIO
v.
DAVIDSON AND OSTROMISLENSKY

DAVIDSON
v.
WALSH AND CAPRIO, AND OSTROMISLENSKY

DAVIDSON
v.
WALSH AND CAPRIO

Nos. 4,028, 4,031, and 4,030. Decided January 23, 1939

[100 F.(2d) 224]

Appeal No. 4,028

1. INTERFERENCE—PRIORITY.
Record reviewed and *Held* priority properly awarded to O in that appellee O, the senior party, is entitled to make the counts and appellants W and C were not diligent in reducing the invention to practice at and immediately prior to the time O entered the field.

Appeal No. 4,031

2. SAME—SAME.
Record reviewed and *Held* that the work of D in 1926 was not a reduction to practice and *Held* that since there is no evidence of subsequent activity by D until after the senior party O filed his application, priority was properly awarded to O.

Appeal No. 4,030

3. SAME—SAME.
Record reviewed and *Held* that as to counts 1, 2, 3, and 7 the junior party D failed to establish either conception or reduction to practice before March 23, 1928, the filing date of the application of W and C, and that as to counts 4, 5, and 6 the work done by D in 1926 was not a reduction to practice and that there being no evidence of activity by D at or immediately prior to March 23, 1928, priority was properly awarded to the senior party W and C.

APPEALS from Patent Office. Affirmed.

Mr. I. Seltzer and *Mr. C. W. Levinson* for Walsh and Caprio.

Mr. Eugene L. Grecnewald and *Mr. Emory P. Boynton* (*Mr. Rudolph S. Nelson* of counsel) for Davidson.

Mr. Warren J. Willis for Ostromislensky.

HATFIELD, *J.*:

These are appeals in interference proceedings from the decisions of the Board of Appeals of the United States Patent Office affirming the decisions of the Examiner of Interferences awarding priority of invention to appellee Iwan Ostromislensky in interference No. 65,251, and to appellees James F. Walsh and Amerigo F. Caprio in interference No. 63,781.

Interference No. 65,251 involves three parties. The two unsuccessful parties in the Patent Office (James F. Walsh and Amerigo F. Caprio, in appeal No. 4,028, and Joseph C. Davidson, in appeal No. 4,031) have appealed to this court.

Interference No. 63,781, appeal No. 4,030, is a two party interference in which Joseph C. Davidson is appellant and James F. Walsh and Amerigo F. Caprio are appellees.

Considerable evidence was introduced in interference No. 65,251 by the parties Walsh and Caprio, and the party Davidson (Ostromislensky submitted no evidence, and is restricted to his filing date for conception and constructive reduction to practice), which, by stipulation by counsel for the parties, was made a part of the record in interference No. 63,781. Inasmuch as that evidence is relied upon by appellants in interference No. 65,251, appeals Nos. 4,028 and 4,031, and by both parties in interference No. 63,781, appeal No. 4,030, we shall dispose of the issues in one opinion.

For the purpose of the hearing in this court, the records in the interferences were consolidated.

Appeals Nos. 4,028 and 4,031

Interference No. 65,251 is between appellee Ostromislensky's application No. 244,258, filed January 3, 1928, and Walsh and Caprio's patent, No. 1,835,619, issued December 8, 1931, on an application, No. 264,273, filed March 23, 1928, and the application of Davidson, Serial No. 593,696, filed February 17, 1932, which is a division of application No. 296,106, filed July 28, 1928, and which matured into Patent No. 1,929,352 on October 3, 1933.

Ostromislensky is the senior party, and the burden was upon the junior parties to establish priority of invention by a preponderance of the evidence.

The counts in issue are three in number and originated in Walsh and Caprio's patent.

The invention relates to the method of uniting articles, particularly sheets of glass, by interposing a vinyl compound between the surfaces of such articles, subjecting the same to pressure, and polymerizing the vinyl compound in situ.

The counts read:

Count 1. Method of uniting articles comprising applying a layer of material containing a vinyl compound between the surfaces thereof, subjecting the same to pressure and polymerizing said vinyl compound in situ.

Count 2. Method of uniting articles comprising applying a layer of a material containing a partially polymerized vinyl compound between the surfaces thereof, subjecting the same to pressure and further polymerizing said vinyl compound in situ.

Count 3. Method of uniting articles of glass comprising applying a layer of a material containing a vinyl compound between the surfaces thereof, subjecting the same to pressure and polymerizing said vinyl compound in situ.

It will be observed that in count 1 a vinyl compound is interposed between the surfaces of articles, the articles are then subjected to pressure and the vinyl compound is polymerized in situ; whereas, in count 2 a partially polymerized vinyl compound is interposed between the surfaces of articles, the articles are subjected to pressure and the partially polymerized vinyl compound is further polymerized in situ. Count 3 is similar to count 1, except that it is limited to articles of glass.

In appeal No. 4,028 the first question for our consideration is whether appellee Ostromislensky is entitled to make the claims constituting the counts in issue.

The tribunals of the Patent Office concurred in holding that, although there is no express statement in Ostromislensky's application that the vinyl compound is polymerized in situ, such polymerization is inherrent in Example 2 of his application, and that, therefore, he is entitled to make the claims.

Example 2 is as follows:

The surface of a sheet of mineral glass, as described in Example 1, is covered with a coating of chemically pure styrol ($C_6H_5CH:CH_2$); styrol which has partially polymerized to polystyrol may be used. Thereupon the second sheet of glass is laid upon it under certain pressure. The resulting article is then kept at room temperature or else heated to 60–100–170° C., depending upon the stability of the mineral glass used in each instance, until the glass becomes optically homogeneous and very durable.

It will be observed that appellee states in his application that either chemically pure styrol or partially polymerized styrol (polystyrol) may be used. One or the other of those substances is interposed between the surfaces of articles, particularly glass articles, the articles are then subjected to pressure and are kept at room temperature or heated to 60–100–170° C.

It appears from the record that the last step in the involved invention—the polymerizing of the vinyl compound in situ—may be accomplished either by exposing the articles to light or by subjecting them to heat. It would seem to be clear, therefore, that the polymerization of the vinyl compound is inherent in appellee's disclosure.

But, it is argued by counsel for appellants Walsh and Caprio that the counts in issue relate broadly to the use of vinyl compounds; that in appellee's application but one of the vinyl compounds is disclosed; that he is not entitled to claims in a patent which cover the entire group of such compounds; and that, therefore, he is not entitled to make the claims constituting the counts in issue.

Each of the counts in issue relates to a method of uniting articles by interposing a vinyl compound between the surfaces of such articles. Appellee clearly discloses the use of a vinyl compound for such purpose. Obviously then, he is entitled in an interference proceeding to make counts which are sufficiently broad to include the vinyl compound which he discloses. *Blodgett and Hanson* v. *Richter*, 23 C. C. P. A. (Patents) 749, 79 F.(2d) 922, 463 O. G. 231.

If appellee is the prior inventor of the use of one of the vinyl compounds in the involved method of uniting articles, certainly appellants Walsh and Caprio are not entitled to a patent for the use of all vinyl compounds. Furthermore, it is so well settled as to require no citation of authority that the question of the right of a party to secure a patent cannot be raised in this court in an interference proceeding. In interference proceedings the jurisdiction of this court is limited to the question of priority of invention and to such ancillary questions as may be involved therein. Should appellee receive an award of priority of invention, his right to receive a patent will be determined in an ex parte prosecution of his application.

It is argued by counsel for appellants Walsh and Caprio that it has been established by the testimony of the witness Caprio that if chemically pure styrol is—

"placed between the glass and the assembly subjected to pressure the styrol would squeeze out with the result that practically no layer is left between the two sheets of glass with the consequence that no adhesion could take place between the sheets of glass. Furthermore, if any trace of unpolymerized styrol should be left between the sheets of glass, it would not polymerize at the room temperature specified in Example 2 of Ostromislensky, and even when heated to 60–100–170° C., any trace of pure styrol that may have been left between the glass surfaces would be expelled by evaporation."

It appears from the testimony of the witness Caprio that he had never had any experience in the polymerization of styrol, and that his testimony was not based upon any experiments carried out for the purpose of ascertaining the facts concerning which he testified. His testimony, therefore, amounts to nothing more than the opinion of an adverse party, and is wholly insufficient to warrant a holding consistent with the views advanced here by counsel for appellants. Accordingly, we conclude that appellee is entitled to make the claims constituting the counts in issue.

Considerable evidence was introduced by appellants Walsh and Caprio for the purpose of establishing that they conceived the invention and disclosed it to others sometime between January 15 and July 1, 1926. It is not contended by their counsel that appellants reduced the invention to practice prior to the filing of their patent application—March 23, 1928. It is contended, however, that they were diligent in reducing the invention to practice at the time appellees Davidson and Ostromislensky entered the field, and thereafter until March 23, 1928, when their application for patent was filed.

The tribunals of the Patent Office concurred in holding that the evidence submitted by appellants Walsh and Caprio was insufficient to establish conception of the invention prior to their filing date. We deem is unnecessary to consider that question, because, even if it be assumed that appellants conceived the invention and disclosed it to others sometime during the period from January 15 to July 1, 1926, the evidence is insufficient to establish that they were diligent in reducing it to practice at and immediately prior to the time (January 3, 1928) appellee Ostromislensky filed his application.

The testimony of appellants Walsh and Caprio upon which the claim of diligence is based relates solely to the preparation and filing of their involved application.

Mr. Walsh testified that after the work in 1926 on the involved invention had ceased, and after the Celluloid Corporation by which he was employed had merged with the Celanese Corporation (which occurred in the summer of 1927), he consulted an attorney, Mr. Levinson (who has appeared as counsel for appellants throughout these proceedings)—

"outlined the applications [presumably patent applications] and left them with him [Mr. Levinson] for drawing up for filing."

Mr. Caprio stated that in September, 1927, it was concluded that patent protection should be sought and that Messrs. Seltzer and Levinson, patent attorneys, were requested to "draw up the necessary patent application".

Mr. Levinson did not testify in the case, and the testimony of the witnesses Walsh and Caprio is wholly uncorroborated.

[1] Appellants Walsh and Caprio's application was not filed until March 23, 1928, approximately two and one-half months after Ostromislensky's application was filed. We must hold, therefore, that appellants have failed to establish diligence during the critical period. Accordingly, assuming for the purpose of this decision that appellants were the first to conceive the invention, they were not diligent in reducing it to practice at and immediately prior to the time appellee Ostromislensky entered the field, and, therefore, are not entitled to an award of priority.

In appeal No. 4,031, appellant Davidson contends that the evidence submitted on his behalf establishes that he conceived the invention in the fall of 1925 or early part of 1926; that he actually reduced it to practice sometime during the summer or fall of 1926; and that the work of reducing the invention to practice was carried out at the Mellon Institute by the witnesses Dr. Ernest W. Reid and Mr. Donald C. Lewis, and one Dr. Hermann Heckel, who did not testify.

Appellant Davidson testified that a partially polymerized vinyl compound (vinyl acetate) was interposed between the surfaces of two pieces of glass, the "sandwich" thus formed subjected to pressure, and then baked to further polymerize the vinyl compound. He also testified that tests were made—

"of vinyl acetate acting as a bond between the glass and an inserted sheet of another material such as pyroxylin."

In describing the tests carried out by him at the suggestion of appellant Davidson, the witness Dr. Reid testified that sometime in the fall of 1926—

"partially polymerized vinyl acetate was placed on one side of two pieces of glass, this resin baked in an oven, and pieces united while hot, under pressure,"

and that the baking of the resin caused further polymerization of the vinyl acetate. He further stated that—

"The dry vinyl acetate resin was dissolved in acetone and this solution used to coat one side of two pieces of glass. These were air dried, then baked in an oven, at temperatures of approximately 80 to 90 deg. C. The two pieces placed together while hot, the resin side together, placed in a small press, and pressed while cooling."

The witness further testified that—

"Sandwiches of glass and Celluloid were prepared by using vinyl acetate as the adhesive,"

and that they were produced in the following manner:

"A thin film of resin was placed on the glass and baked and the Celluloid placed between the two pieces of glass and pressed while still hot."

The witness Donald C. Lewis testified that he—

"was an assistant on the Organic Synthesis Fellowship, sponsored by the Carbide and Carbon Chemicals Corporation,"

and that, in the summer and fall of 1926, he assisted the witness Reid in performing experiments in which glass articles were united by means of vinyl acetate. We quote from his testimony relative to those experiments:

A. These experiments consisted of applying a film of vinyl acetate resin to a glass surface. The coated pieces of glass were then heated in an oven; the resin surfaces on the two pieces of glass were then brought in contact, and the composite placed under pressure in a small laboratory press.

Q. 12. What part did you take in the conduct of the experiment you have just described?

A. I coated the samples of glass, placed them in the oven, and later pressed them together in the press.

With regard to the experiments in which Celluloid was used, the witness testified as follows:

Q. 24. Do you know whether more than one experiment on this method of uniting materials, such as glass, was conducted at the time of which you speak?

A. Yes.

Q. 25. Were all of them conducted exactly as you have previously outlined?

A. In general, yes.

Q. 26. What differences, if any, characterized the other experiments that you have mentioned from the one you have described?

A. Other experiments were made in an attempt to increase the break strength of the composite by the use of an inner layer of transparent Celluloid.

Q. 27. Do you recall how the composites which included a layer of transparent Celluloid were formed?

A. By placing sheet of transparent Celluloid between the two resin surfaces on the glass.

It will be observed that, although appellant Davidson testified that his experiments or those made on his behalf were carried out in the order of the steps set forth in the involved counts, that is, by interposing a layer of vinyl acetate, or partially polymerized vinyl acetate, between the surfaces of glass or other articles, subjecting the composite article so formed to pressure, and polymerizing or further polymerizing the vinyl compound in situ, the witnesses Reid and Lewis not only did not corroborate his testimony, but contradicted it, stating that after a film of vinyl acetate was applied to the surfaces of two pieces of glass, the coated pieces of glass were heated in an oven, and, after removal from the oven, the coated surfaces were brought into contact with each other, and the article thus formed subjected to pressure.

It may be that, in the Reid and Lewis experiments, polymerization of the vinyl compound continued after the pieces of glass with the coated surfaces were removed from the oven and the coated surfaces brought into contact with each other and while the article so formed was permitted to cool under pressure. However, the processes carried out in those experiments do not conform to either of the processes defined in the counts in issue. Counts 1 and 3 clearly require, first, interposing a vinyl compound between the surfaces of articles (count 3 being limited to glass), second, subjecting the composite articles so formed to pressure, and, third, polymerizing the vinyl compound in situ; that is, the vinyl compound is polymerized after, not before, the composite article, of which it is a part, is formed. Count 2 requires, first, interposing a partially polymerized vinyl compound between the surfaces of articles, second, subjecting the composite article so formed to pressure, and, third, further polymerizing said vinyl compound in situ; that is, the partially polymerized vinyl compound is further polymerized after, not before,

the composite article, of which it is a part, is formed.

Whether the processes carried out by appellant's witnesses Reid and Lewis differ in a patentable sense from the processes defined in the involved counts is a matter with which we are not here concerned. It is clear, however, that the testimony of those witnesses does not corroborate the testimony of appellant that he conceived the invention defined by the appealed counts in the fall of 1925 or early part of 1926, and reduced it to practice during the summer or fall of 1926.

[2] There is no evidence of activity on the part of appellant Davidson, subsequent to the experiments carried out on his behalf by the witnesses Reid and Lewis in the summer and fall of 1926, until after appellee Ostromislensky filed his application—January 3, 1928. Accordingly, appellant Davidson is not entitled to an award of priority.

For the reasons stated, the decision of the Board of Appeals, awarding priority of invention to appellee Ostromislensky, is affirmed.

Appeal No. 4,030

Interference No. 63,781 is between appellees Walsh and Caprio's patent, No. 1,835,619, issued December 8, 1931, on an application filed March 23, 1928, and appellant Davidson's application, Serial No. 593,696, filed February 17, 1932, which is a division of application No. 296,106, filed July 28, 1928, and which matured into Patent No. 1,929,352, October 3, 1933. Appellees Walsh and Caprio's patent and appellant Davidson's application were involved in interference No. 65,251, appeals Nos. 4,028 and 4,031.

Appellees are the senior parties and the burden was upon appellant to establish priority of invention by a preponderance of the evidence.

The counts, seven in number, originated in appellees' patent, where they appear as claims 2, 4, 6, 7, 8, 9, and 11. They read:

Count 1. Method in accordance with count 1 wherein the vinyl compound is a vinyl acetate.

Count 2. Method in accordance with count 3 wherein the vinyl compound is a vinyl acetate.

Count 3. Method in accordance with count 5 wherein the vinyl compound is a vinyl acetate.

Count 4. Method in accordance with count 5 wherein the polymerization is effected by the action of light.

Count 5. Method of making laminated glass comprising securing a sheet containing a derivative of cellulose between sheets of glass by applying a layer of a material containing a vinyl compound between said cellulose derivative and said sheets of glass, subjecting the same to pressure and polymerizing said vinyl compounds in situ.

Count 6. Method in accordance with count 5 wherein the cellulose derivative is an organic derivative of cellulose.

Count 7. Method in accordance with count 5 wherein the vinyl compound is vinyl acetate.

Counts 1, 2, and 3 of the companion interference, No. 65,251, correspond to claims 1, 3, and 5 of the Walsh and Caprio patent. Accordingly, count 1, referred to in count 1 of the instant interference, is claim 1 of the patent and count 1 of the companion interference; count 3, referred to in count 2 of the instant interference, is claim 3 of the patent and count 2 of the companion interference; and count 5, referred to in counts 3, 4, 6, and 7 of the instant interference, is claim 5 of the patent and count 3 of the companion interference.

For the purpose of clarity, we deem it advisable to again set forth the counts of the companion interference, hereinbefore considered. They read:

Count 1. Method of uniting articles comprising applying a layer of material containing a vinyl compound between the surfaces thereof, subjecting the same to pressure and polymerizing said vinyl compound in situ.

Count 2. Method of uniting articles comprising applying a layer of a material containing a partially polymerized vinyl compound between the surfaces thereof, subjecting the same to pressure and further polymerizing said vinyl compound in situ.

Count 3. Method of uniting articles of glass comprising applying a layer of a material containing a vinyl compound between the surfaces thereof, subjecting the same to pressure and polymerizing said vinyl compound in situ.

It will be observed that, whereas counts 1, 2, and 3 of the companion interference call for a "vinyl compound", counts 1, 2, 3, and 7 of the instant interference call for "vinyl acetate", one of the vinyl compounds. Count 4 of the instant interference and count 3 of the companion interference are similar, except that count 4 specifies that "polymerization is effected by the action of light". Count 6 of the instant interference and count 3 of the companion interference are similar, except that count 6 calls for the use of an organic derivative of cellulose.

The evidence submitted by the parties in the instant interference was made a part of the record in the companion interference, and, so far as it is applicable to the issues in the instant interference, is set forth, except as to count 4, in our decision in the companion interference.

[3] In view of the fact that, so far as the issues here are concerned, counts 1, 2, 3, and 7 in the instant interference differ from counts 1, 2, and 3 of the companion interference only in that they specify the use of vinyl acetate, one of the vinyl compounds, whereas the counts in the companion interference call broadly for vinyl compounds, what was said in the companion interference relative to appellant Davidson's conception and reduction to practice applies to counts 1, 2, 3, and 7 of the instant interference, and need not be repeated here. It is sufficient to say that appellant has failed to establish either conception or reduction to practice of the invention defined in those counts prior to the filing of appellees' application—March 23, 1928. Accordingly, appellant was the last to conceive the invention and the last to reduce it to practice, and, therefore, is not entitled to an award of priority.

As to counts 5 and 6, we deem it advisable, for the purpose of clarity, to again review the testimony of appellant's witnesses Reid and Lewis, which, it is claimed by counsel for appellant, corroborates the testimony of appellant, who stated in substance that vinyl acetate was interposed between the surfaces of two pieces of glass and a sheet of pyroxylin, the vinyl acetate acting as a bond between the glass and the pyroxylin, the sandwich thus formed subjected to pressure, and the vinyl acetate polymerized in situ by the application of heat.

The witness Reid testified that the vinyl acetate was placed on—

"one side of two pieces of glass,"

the glass subjected to heat, Celluloid placed between the pieces of glass, and the article thus formed subjected to pressure while hot. Specifically, he stated that—

"a thin film of resin was placed on the glass and baked and the Celluloid placed between the two pieces of glass and pressed while still hot."

The witness Lewis testified that the experiments in which Celluloid was used were carried out in the same manner as those in which it was not used; that is, vinyl acetate was applied to the surfaces of two pieces of glass, the glass heated in an oven, removed, the Celluloid placed between the coated surfaces, and the article thus formed subjected to pressure.

The experiments related by the witnesses Reid and Lewis were carried out in the summer and fall of 1926.

The testimony of those witnesses does not corroborate, but rather contradicts, the testimony of appellant Davidson that the experiments performed in 1926 were carried out in the order of the steps of the method defined in counts 5 and 6.

For the reasons stated in the companion interference, we must hold that appellant has failed to establish either conception or reduction to practice of the invention defined in counts 5 and 6 in 1926, and, as there is no evidence of activity by him or on his behalf at and immediately prior to the filing of appellees' application (March 23, 1928), he is not entitled to an award of priority as to those counts.

Appellant's right to make count 6 is challenged by counsel for appellees. However, in view of our holding that appellant is not entitled to an award of priority of the invention defined in that count, we deem it unnecessary to consider his right to make it.

Count 4 requires that "polymerization" be "effected by the action of light". The other appealed counts are not so limited.

Appellant testified that the process defined in that count had been carried out in the experiments at the laboratory at the Mellon Institute. The witness Reid, who assisted in carrying out those experiments, testified that ultra-violet light had been used rather extensively in his experiments during the year 1926 "to further carry out polymerization". However, he did not state at what stage of the process carried out by him the vinyl acetate was exposed to ultra-violet light. We must presume, therefore, that when he used ultra-violet light the experiments were carried out in the same manner, and in the same order of steps, as when heat was used "to further carry out polymerization"; that is, that vinyl acetate was placed on the surfaces of two pieces of glass, the vinyl acetate polymerized by ultra-violet light, the coated surfaces of the glass then brought into contact, and the article so formed subjected to pressure. Certainly, we can not presume, in view of his testimony as to the manner in which all of his other experiments were carried out, that, in this one instance, the witness Reid changed his method of procedure entirely and carried out his experiments in accordance with the method defined in the appealed count.

The witness Lewis did not testify that ultra-violet light was used for "further polymerization" of the vinyl acetate.

It is evident, we think, that the testimony of the witness Reid is not corroborative of the testimony of appellant that the process defined in count 4 was carried out in the experiments performed in 1926.

There being no evidence of activity on the part of appellant Davidson at and immediately prior to the filing of appellees' application (March 23, 1928), he is not entitled to an award of priority of the invention defined in count 4.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,255,513. (See 1,305,065.)

1,305,065, 1,255,513, S. G. Conkling, Shock absorber, Ser. No. 81,749 applied for May 25, 1936, by S. G. Conkling, D. C., N. D. Ill., Doc. 15846 (July 27, 1938, cause transferred to law side and given No. 47298), *S. G. Conkling* v. *Cleveland Pneumatic Tool Co.* Dismissed with prejudice Mar. 20, 1939.

1,362,972. (See 2,002,236.)

1,463,473, F. J. Lapointe, Broaching tool; 1,708,478, O. Lundell, Broach or the like, filed Apr. 6, 1939, D. C., E. D. Mich., S. Div., Doc. 949, *Metal Cutting Tool Service, Inc., et al.* v. *Michigan Broach & Engineering Co.*

1,573,341, E. B. Hiatt, Devices for packing fruit and the like; 1,593,302, same, Basket liners, filed Mar. 30, 1939, D. C., N. D. Ill., Doc. 466, *Carpenter-Hiatt Sales Corp.* v. *R. N. Jones (Chicago Paper Products Co.) et al.*

1,581,546, W. L. Ranson, Locomotive sander valve; 1,611,126, W. H. White, Locomotive sander; 1,864,057, V. L. Frantz et al., Locomotive sanding traps; 2,030,669, W. H. White, Track sander; 1,877,837, V. L. Frantz, Locomotive sanding mechanism; Re. 20,913, W. H. White, Track sander, D. C., N. D. Ill., Doc. 15680, *Graham-White Sander Corp.* v. *Morris B. Brewster Co., Inc., et al.* Consent decree finding claims 2 and 4 of Patent 1,581,546 and claims 7, 8, and 11 of Patent 1,864,057 valid and infringed, and defendant judged to be sole owner of Re. 20,913 (of Patent 2,030,669), Dec. 21, 1938.

1,593,302. (See 1,573,341.)

1,604,133, E. Rebechini, Feeding mechanism; 2,065,093, E. J. Rebechini, Nut blanching machine, D. C., N. D. Ill., Doc. 15708, *E. J. Rebechini (Wizard Specialty Machinery Co.)* v. *Lion Specialty Co. et al.* Bill of complaint dismissed without prejudice relative to Patent 1,604,133 Oct. 18, 1938. Bill of complaint dismissed for want of equity Oct. 25, 1938. (Claims 2, 3, 5, 6, 7, and 9 of Patent 2,065,093 invalid.)

1,611,126. (See 1,581,546.)

1,706,082, L. Schwartzberg, Cellular packing for fragile objects, filed Jan. 31, 1939, D. C., N. D. Ill., Doc. 315, *L. Schwartzberg* v. *Self Locking Carton Co.*

1,708,478. (See 1,463,473.)

1,729,068, H. Fischer, Process of removing soap from its container; 1,751,301, R. M. Bagley, Apparatus for making soap solution, filed Feb. 8, 1939, D. C., E. D. Pa., Doc. 175, *R. M. Hollingshead Corp.* v. *Harley Soap Co.*

1,739,587, L. Greenberg, Oscillating devices, D. C., N. D. Ill., Doc. 16154, *L. Greenberg* v. *Chicago Flexible Shaft Co.* Cause, including counterclaim, dismissed Jan. 16, 1939.

1,746,028. (See 1,762,547.) 1,751,301. (See 1,729,068.)

1,762,547, R. H. Churchill, Heat-conducting system; 1,827,731, same, Advertising display board; 1,746,028, same, Materials and method for sealing leaks in liquid circulating systems, D. C., N. D. Ill., Doc. 15966, *R. H. Churchill (Try Mfg. Co.)* v. *Clara H. Lesperance (Producers Ltd.) et al.* Patent 1,827,731, owned by plaintiff, and particularly claim 4 thereof, held valid and injunction issued; plaintiff does not infringe defendant's Patent 1,746,028 Mar. 13, 1939.

1,771,983, K. Wandel, Paper article and process of producing the same; 1,774,497, same, Paper article and process of manufacture, D. C., N. D. Ill., Doc. 15866, *Internat'l Cellucotton Products Co. et al.* v. *W. T. Grant Co.* Dismissed for want of prosecution Nov. 9, 1938. Doc. 15865, *Internat'l Cellucotton Products Co. et al.* v. *Liggett Drug Co., Inc.* Dismissed without prejudice on motion of plaintiff Dec. 19, 1938.

1,774,497. (See 1,771,983.)

1,800,719, S. S. Cramer, Electrical condenser, D. C., S. D. N. Y., Doc. E 86–136, *Condenser Development Corp.* v. *Davega-City Radio, Inc.* Interlocutory decree favor of plaintiff, patent valid and infringed; injunction. (Notice Dec. 8, 1937.)

1,827,731. (See 1,762,547.)

1,836,781. (See Des. 82,007.)

1,836,782. (See Des. 82,007.)

1,849,515, L. Ell, Suction cleaner nozzle; 2,027,543, G. E. Lofgren, Suction nozzle, D. C., E. D. Pa., Doc. 25, *Electrolux Corp.* v. *Radio Electric Service Co. of Pa.* Consent decree granting perpetual injunction against defendant Nov. 15, 1938.

1,858,196, H. H. Wermine, Electric plug connector, filed Apr. 6, 1939, D. C., E. D. Mich., S. Div., Doc. 942, *Belden Manufacturing Co.* v. *Essex Wire Corp.*

1,862,416, 1,862,417, E. O. Nebel, Knitting; 1,921,908, D. M. Carmer, Knitted hosiery, filed Feb. 8, 1939, D. C., E. D. Pa., Doc. 174, *J. F. Meder* v. *Temple Full Fashioned Hosiery Mills, Inc.*

1,862,417. (See 1,862,416.)

1,863,955, T. R. Willwerscheid, Sign, D. C., 4th Div., Minn., Doc. 2976 Equity, *Western Stamping & Manufacturing Co.* v. *General Outdoor Advertising Co., Inc.* Dismissed for lack of prosecution on court's motion Mar. 7, 1939.

1,864,057. (See 1,581,546.)

1,877,837. (See 1,581,546.)

1,885,615. (See Re. 18,249.)

1,898,318, E. R. Smith, Comb attachment for carpet sweepers, filed Mar. 18, 1939, D. C., S. D. Ind., Doc. 69 Civil, *E. R. Wagner Manufacturing Co. et al.* v. *Porter Steel Specialties Co.*

1,921,908. (See 1,862,416.)

1,934,271. (See Re. 18,249.)

1,935,567. (See Des. 82,007.)

1,942,751, R. G. Evans, Radio receiving apparatus, filed Apr. 5, 1939, D. C., E. D. Mich., S. Div., Doc. 937, *R. G. Evans* v. *General Electric Corp.*

1,997,561, W. A. Lockhart, Lens cutting machine, filed Apr. 4, 1939, D. C., S. D. N. Y., Doc. Civ. 3–195, *Shuron Optical Co., Inc.*, v. *Gotham Optical Instrument and Machinery Corp. et al.*

2,002,236, R. I. Wilcox, Automatic phonograph; 1,362,972, R. E. Utley, Phonograph, D. C., N. D. Ill., *Rudolph Wurlitzer Manufacturing Co.* v. *Rock-Ola Manufacturing Co.* Dismissed without prejudice Dec. 5, 1938.

2,020,907, M. H. Rubin, Yarn and the fabric produced therefrom, D. C., S. D. N. Y., Doc. E 82–105, *American Silk Mills, Inc.*, v. *Susquehanna Silk Mills.* Dismissed without prejudice. (Notice Jan. 9, 1936.)

2,024,414, I. C. Gellman, Bread slicing machine, C. C. A., 6th Cir., Doc. 7763, *Oliver Machinery Co.* v. *I. C. Gellman.* Decree reversed, cause remanded with instructions to dismiss bill. Decided Apr. 7, 1939.

2,026,793, G. W. McKee, Pressure regulator, filed Mar. 6, 1939, D. C., S. D. Ind., Doc. 60 Civil, *G. W. McKee* v. *Reynolds Gas Regulator Co.*

2,027,543. (See 1,849,515.) 2,030,669. (See 1,581,546.)

2,058,159. (See Re. 20,133.)

2,065,093. (See 1,604,133.)

2,078,087, W. B. Lincoln, Jr., Light shielded handled fibre board case, D. C., S. D. Ind. (New Albany Div., trans. to Indianapolis No. 1985 Equity), Doc. 112 Equity, *Inland Container Corp.* v. *Martin Brothers Box Co.* Claims 2, 3, 6, 8, and 9 to 14, inclusive, of Patent 2,078,087 invalid. Bill of complaint dismissed for want of equity Mar. 14, 1939.

2,084,765, T. Crocella, Apparatus for pressing garments, filed Apr. 3, 1939, D. C., S. D. N. Y., Doc. Civ. 3–186, *Press-O-Matic, Inc.*, v. *David Sigmund (Sigmund Engineering Co.)*

2,100,008, C. L. Stephens, Picture projecting devices, D. C., S. D. N. Y., Doc. E 86–132, *Stephens Products Co., Inc.*, v. *Walgreen Co. of N. Y., Inc., et al.* Final consent decree, patent sustained and held infringed; injunction. (Notice Dec. 3, 1937.)

Re. 17,393. (See Re. 18,841.)

Re. 18,249 (of 1,760,912), J. M. McGinley, Detachable support; 1,934,271, W. L. McGinley, Service tray; 1,885,615, W. L. McGinley, Detachable service tray, D. C., N. D. Ill., Doc. 15672, *Tray Service Co.* v. *Bloomfield Manufacturing Co.* Claims 6 and 7 of Re. 18,249, all 13 claims of 1,934,271, and claim 2 of 1,885,615 held valid, infringed, and injunction issued Dec. 30, 1938. Petition for appeal withdrawn and former decree made final Feb. 3, 1939.

Re. 18,841 (of 1,622,957), J. Mayer, Hairwaving method; Re. 17,393 (of 1,622,957), same, Hair-waving appliance and method, D. C., S. D. Calif., C. Div., Doc. Eq–1180–H, *Philad Co.* v. *J. W. Perlow (Wave Products Co.) et al.* Consent decree finding Re. 18,841, particularly claims 2, 3, 4, and 5 thereof, and claims 2, 8, 9, and 10 of Re. 17,393 valid and infringed; perpetual injunction Mar. 20, 1939.

Re. 20,133 (of 1,957,272), P. H. Kuyper, Venetian blind construction; 2,058,159, same, Venetian blind structure, appeal filed Apr. 1, 1939, C. C. A., 2nd Cir., Doc. —, *Rolscreen Co.* v. *Abraham & Straus, Inc.*

Re. 20,913. (See 1,581,546.)

Des. 82,007, J. Teller, Cabinet gas range; Des. 82,769, same, Coal range; Des. 85,626, J. Teller et al., Gas or electric cabinet range; Des. 85,962, J. Teller et al., Cabinet cooking range; 1,836,781, 1,836,782, J. Teller, Stove structure; 1,935,567, H. H. Heidbreder, Range, D. C., N. D. Ill., Doc. 15757, *Jacob Teller et al.* v. *Phillips and Buttorf Manufacturing Co.* Dismissed Feb. 15, 1939.

Des. 82,769. (See Des. 82,007.)

Des. 85,626. (See Des. 82,007.)

Des. 85,962. (See Des. 82,007.)

Des. 108,274, A. H. Wolsfield, Combined clock face and metronome, filed Apr. 4, 1939, D. C., S. D. N. Y., Doc. Civ. 3–196, *Albert H. Wolsfield (also known as "Allan Fielding" and "Al Fields")* v. *Gray Gordon et al.*

Des. 110,062, R. Williams, Dress ensemble, filed Apr. 3, 1939, D. C., W. D. Mo., Doc. 190, *Samuel Reich et al.* v. *Quality Hill Dress Co.*

Des. 113,481, A. Schwartz, Dress ensemble, filed Apr. 3, 1939, D. C., S. D. N. Y., Doc. Civ. 3–188, *Ashley Frocks, Inc.*, v. *Brilliant Dress, Inc.*

T. M. 13,064, C. Conrad & Co., Beer; T. M. 64,125, Anheuser-Busch Brewing Assn., Beer, D. C., N. D. Ill., Doc. 15962, *Anheuser-Busch, Inc.*, v. *White Eagle Brewing Co.* Consent decree restraining defendant from use of name "Allweiser" and from infringing trade name "Budweiser", Feb. 7, 1939.

T. M. 64,004, S. F. Whitman & Son, Chocolate, D. C., E. D. Wis., Doc. 4810 Civil, *S. F. Whitman & Son, Inc.*, v. *R. A. Johnston Co.* Final decree in favor of defendant, T. M. 64,004 invalid, complaint dismissed for want of equity Apr. 3, 1939.

T. M. 64,125. (See T. M. 13,064.)

Changes in Classification

Order No. 3,467, April 27, 1939, directs:

In *class 2, Apparel* (Division 24), change the title and definition of subclass 157 to read:

Body garments
Necktles
157 End structure.

157. Structure of necktie ends to provide special reinforcement or special means for pulling the ends through knot structure. Also included are straps mounted on one end to hold the other end in position. If such straps are also provided with means to attach the necktie end to another garment, they are found in this class, subclass 145.

In *class 74, Machine Elements and Mechanisms* (Division 12), change the titles and definitions of subclasses 572, 573, and 574 to read:

Elements
572 Flywheels and rotors
573 With balancing means,
574 With vibration damping means.

572. Wheels and other rotors where the improvements claimed pertain to inertia or momentum characteristics.
(1) Note.—Where additional characteristics are claimed which limit the wheel or other rotor to particular arts (as gears, vehicle wheels, centrifugal separators, turbines, dynamos, etc.), the patent will be placed with the appropriate art and cross referenced here, but the mere designation of the device by name will not exclude the same from this subclass or the indented subclasses.
(2) Note.—Search this class, subclass 5.
(3) **Search Classes—**
64—MACHINE ELEMENTS, SHAFTING AND FLEXIBLE SHAFT COUPLINGS, appropriate subclasses, for flexible shaft couplings.
123—INTERNAL COMBUSTION ENGINES, subclass 185.
171—ELECTRICITY, GENERATION, subclass 252.
287—ROD JOINTS OR COUPLINGS, appropriate subclasses, particularly subclass 52 and indented subclasses, for joints between shaft and wheel.

573. Structures under subclass 572 having either (1) means forming a part or the rotor, or (2) means operating with the rotor, or (3) both to balance the same.
(1) Note.—See class 29, METAL WORKING, subclass 6, for process and apparatus for balancing crankshafts.
(2) Note.—See class 51, ABRADING, subclass 169, for grindstones with balancing means.
(3) Note.—See class 64, MACHINE ELEMENTS, SHAFTING AND FLEXIBLE SHAFT COUPLINGS, subclass 1, for shaft balancing involving only modification of the shaft structure per se.
(4) Note.—See class 73, MEASURING AND TESTING, subclass 51, for balance testing machines having flywheels with adjustable masses.
(5) Note.—See class 308, MACHINE ELEMENTS, BEARINGS AND GUIDES, subclasses 146 and 147, for bearings with balancing means.

574. Structures under subclass 572 having means capable of movement relative to the rotor or its rotary shaft for damping torsional vibrations and/or smoothing out oscillations or speed variations.
(1) Note.—See this class, subclasses 589 and indented subclasses, 594.5, 603, and 604.
(2) Note.—See class 264, SPEED RESPONSIVE DEVICES, subclass 2, for flywheels acting as governors and having vibration damping features. For vibration dampers peculiar to other structures, see the appropriate class.
(3) **Search Classes—**
64—MACHINE ELEMENTS, SHAFTING AND FLEXIBLE SHAFT COUPLINGS, subclasses 11–15 and 27–30.
188—BRAKES, subclass 1.

In *class 91, Coating* (Division 46), change the title of subclass 54.4 to read:

54.4 Pads and forms;

and add to the definition thereof the following notes:
(1) Note.—This subclass and the indented subclasses include coating material in self-sustaining form, where such form is claimed. Where only the material and not its physical shape is claimed, see the appropriate class for the material.
(2) Note.—See class 206, SPECIAL RECEPTACLES AND PACKAGES, subclass 56, for dispensing packages of coating material including those in which the wrapper is destroyed during the dispensing operation.

In *class 285, Pipe Joints or Couplings* (Division 52), abolish the following subclass with its definition:

Transverse port
104 Integral bolt.

The patents formerly contained in this subclass have been placed for the most part in class 285, subclass 96.9, established in Order No. 3,466.

In *class 2, Apparel* (Division 24), subclass 2, add the following note:

Note.—See class 61, HYDRAULIC AND EARTH ENGINEERING, subclasses 70 and 71, for diving suits;

and in subclass 145 change the definition to read:

145. Necktie structure to provide for attachment to collar buttons, collars, neckbands, shirts or other garments.

Search this class, subclasses 137 and 152.

In *class 5, Beds* (Division 8), in the main class definition add the following to note (9):

119—ANIMAL HUSBANDRY, subclass 1, for beds which are disclosed as being limited to the use of animals, usually cats or dogs.

In *class 38, Textiles, Ironing or Smoothing* (Division 27), in the main class definition, in the last line of note (8) change "226, 227 and 228" to read *227, 228 and 230*; and in subclass 74, note (1), in the reference to class 126, Stoves and Furnaces, change "subclass 227" to read *subclasses 227 and 230*; and at the end of the note add:

See note (8) to the main class definition of this class for a statement of the line.

In *class 74, Machine Elements and Mechanisms* (Division 12), subclass 245, in note (1) cancel the reference to class 208, Velocipedes.

In *class 95, Photography* (Division 7), subclass 64, number note (3) as (4) and add:

(3) Note.—For adjustable diaphragms of general use in tubular conduits, see class 138, PIPES AND TUBULAR CONDUITS, subclass 45.

In *class 104, Railways* (Division 34), subclass 106, add the following note:

Search Class—
248—SUPPORTS, subclass 49 and indented subclasses, for pipe and cable supports which are closely related in structure to rail supports.

In *class 126, Stoves and Furnaces* (Division 19), subclass 227, number the existing note (*1*) and add:

(2) Note.—Compare this class, subclass 230.
(3) Note.—See class 38, TEXTILES, IRONING OR SMOOTHING, subclass 74 and indented subclasses, and the notes thereunder, for sad-irons and flat-irons;

and in subclass 230 add the following note:

Note.—Compare this class, subclass 227.

In *class 138, Pipes and Tubular Conduits* (Division 52), subclass 45, number the existing note (*1*) and add:

(2) **Search Class—**
95—PHOTOGRAPHY, subclass 64.

In *class 155, Chairs and Seats* (Division 8), subclass 22, in the search note cancel "208, Velocipedes, subclass 183"

and substitute *280, Land Vehicles, subclasses 11.37 and 11.39*; and in subclass 58 in note (1) cancel "class 46, Games and Toys, subclass 69", and substitute *class 272, Amusement and Exercising Devices.*

In *class 158, Liquid and Gaseous Fuel Burners* (Division 19), subclass 23, cancel existing note (2) and substitute:

(2) Note.—See class 38, TEXTILES, IRONING OR SMOOTHING, subclass 74 and indented subclasses, and the notes thereunder, for other flat-irons.

In *class 206, Special receptacles and Packages* (Division 40), subclass 47, add the following note:

Search Class—

120—STATIONERY, subclass 116, for sealing-wax packages having applying devices in combination therewith.

In *class 219, Electric Heating* (Division 60), subclass 25, add the following note:

Note.—See class 38, TEXTILES, IRONING OR SMOOTHING, subclass 74 and indented subclasses, and the notes thereunder, for other sad-irons or flat-irons.

In *class 248, Supports* (Division 52), subclass 49, add the following note:

(8) **Search Class—**

104—RAILWAYS, subclass 106 and indented subclasses, for trolley rails and their supports, particularly subclass 111.

In *class 263, Heating* (Division 3), subclass 2, under "Search classes" add:

80—METAL ROLLING, subclass 41, for heating appliances to permit heating of the rolls of metal rolling mills.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 16, 1939

[VOL. 502. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 413,233. THE NEW ZEALAND CO-OPERATIVE DAIRY COMPANY LIMITED, Hamilton and Hamilton, Auckland, New Zealand. Filed Nov. 28, 1938.

ANCHOR

For Raw and Partly Prepared Casein Used in the Industrial Art.

Claims use since Aug. 3, 1937.

Ser. No. 414,083. CHARLES SCHWARTZ & Co., Chicago, Ill. Filed Dec. 21, 1938.

EXCELLO

For Used Bags and Sacks Laundered and Bleached in the Nature of Waste Bagging Adaptable for Use in Making Towels, Wiping Cloths, Dust Cloths, Diapers, Garment Covers, Bed Sheets, Pillow Cases, Clothing, Handkerchiefs, and Like Articles.

Claims use since Sept. 29, 1938.

Ser. No. 414,566. INTERNATIONAL PULVERIZING COMPANY, Moorestown, N. J. Filed Jan. 6, 1939.

MICRONIZED

For Pulverized Clays.

Claims use since Dec. 23, 1938.

Ser. No. 415,444. CONNOLLY BROTHERS (CURRIERS) LIMITED, London, England. Filed Jan. 31, 1939.

VAUMOL

For Leather, Skins Unwrought and Wrought.

Claims use since May 11, 1928.

Ser. No. 416,060. RALPH RAYMOND EMLONG, doing business as Emlong's Nursery, Stevensville, Mich. Filed Feb. 15, 1939.

REDHALE

For Fruit Trees, Particularly Peach Trees.

Claims use since Jan. 13, 1939.

Ser. No. 416,219. A. C. WALTER & COMPANY, New York, N. Y. Filed Feb. 18, 1939.

SIBONEY GENUINE GREEN ONYX

No claim is made to the words "Genuine Green Onyx" apart from the mark.

For Base Blocks Made of Green Onyx Used for Lamps, Desk Pen Supports, Book Ends, and Other Similar Ornaments.

Claims use since September 1937.

CLASS 2

Receptacles

Ser. No. 415,941. ROBERT GAIR COMPANY, INC., New York, N. Y. Filed Feb. 11, 1939.

Fresh-Pak

The word "Pak" is disclaimed apart from the mark.
For Cartons.
Claims use since Dec. 6, 1938.

Ser. No. 416,450. BIRD & SON, INC., East Walpole, Mass. Filed Feb. 27, 1939.

BIRD-FIBRE

No claim is made to the word "Fibre" except as shown.
For Wood Frame Packing Cases and Solid Fibre Shipping Containers.
Claims use since Jan. 7, 1936.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 416,978. WELMAID MANUFACTURING CORPORATION, Chicago, Ill. Filed Mar. 11, 1939.

PRO-TEX-SIL

For Compound for Polishing and Retarding the Tarnishing of Silver.
Claims use since Mar. 11, 1938

Ser. No. 417,328. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Mar. 21, 1939.



Applicant is the owner of registrations #227,647 and #230,252 for the mark "Colgate" under the 10-year proviso of the 1905 act. The words "Brushless Shave" and the representation of a carton are disclaimed. The drawing is lined for blue.
For Shaving Cream.
Claims use since Dec. 6, 1938.

Ser. No. 417,616. HECKER PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 29, 1939.



For Shoe Soap.
Claims use since Feb. 10, 1939.

CLASS 5

Adhesives

Ser. No. 411,558. TH. GOLDSCHMIDT A.-G., Essen-Ruhr, Germany. Filed Oct. 12, 1938.

„TEGOWIRO"

For Adhesive Cements.
Claims use since June 1, 1937.

Ser. No. 414,306. N. V. HOLLANDSCHE DRAAD-EN KABELFABRIEK, Amsterdam, Netherlands. Filed Dec. 29, 1938.

WIJMASOL

For Liquid Adhesive Preparation Used Particularly in Applying Flexible Layers of Construction Materials to Floors, Walls, Tanks, Pipes, Electric Cables, and the Like.
Claims use since 1932.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 403,817. GEHRING & NEIWEISER, Bielefeld, Germany. Filed Mar. 8, 1938.



Applicant disclaims the words "Gehring & Neiweiser", "Alba", "Bielefeld", and "Schutzmarke".
For Preparation for Preserving Victuals.
Claims use since May, 1934.

Ser. No. 405,316. PEARSON PHARMACAL COMPANY, INC., New York, N. Y. Filed Apr. 15, 1938.

dri-dew

For Deodorant.
Claims use since Apr. 8, 1938.

Ser. No. 410,692. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Sept. 17, 1938.

SUPER 9

The word "Super" is disclaimed apart from the mark. The drawing is lined for blue and red.
For Fluid for Hydraulic Brakes, Shock Absorbers, and the Like.
Claims use since Apr. 22, 1938.

Ser. No. 414,603. NUODEX PRODUCTS CO., INC., Elizabeth, N. J. Filed Jan. 7, 1939.

NUADE

For Chemical Grinding Agents Adapted To Be Added to Pigments for Use in Coating and Film Forming Materials, Such as Paints, Enamels, Lacquers, and Printing and Lithographic Inks.
Claims use since Dec. 29, 1938.

Ser. No. 415,457. THE KENDALL COMPANY, Walpole, Mass. Filed Jan. 31, 1939.

HYPO-LERGIX

For Medicated Adhesive Plasters.
Claims use since Jan. 16, 1939.

Ser. No. 415,843. HAROLD C. HUDDLESTON, Pittsfield, Mass. Filed Feb. 9, 1939.



Applicant disclaims the descriptive language "The Cool Liniment" apart from the mark.
For Liniment for Rubbing on the Skin for Rheumatism, Sprains, Muscular Pains, Neuritis, Lumbago, and Neuralgia.
Claims use since Mar. 2, 1938.

Ser. No. 416,301. WARWICK CHEMICAL COMPANY, West Warwick, R. I. Filed Feb. 21, 1939.

APPRAMINE

For Compound for Softening Textile Fabrics and Leather.
Claims use since Feb. 10, 1939.

Ser. No. 416,727. THE HALOID COMPANY, Rochester, N. Y. Filed Mar. 6, 1939.

HALODOL

For Chemical Used in Photographic Developing Solutions.
Claims use since Jan. 20, 1939.

Ser. No. 416,780. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Mar. 7, 1939.

PHEDRACIN

For Preparation Having an Action on the Circulation of the Blood.
Claims use since Apr. 8, 1936.

Ser. No. 416,788. DARCO CORPORATION, Wilmington, Del. Filed Mar. 9, 1939.

DARCO K

For Adsorptive and Decolorizing Carbon.
Claims use since Jan. 20, 1939.

Ser. No. 416,806. W. H. LOOMIS TALC CORPORATION, Gouverneur, N. Y. Filed Mar. 8, 1939.

LOOMKILL

For Specially Prepared Insecticide and for an Inert Carrier and Diluent for Insecticides and Fungicides.
Claims use since Feb. 25, 1938.

Ser. No. 416,850. HALLSTAR PRODUCTS, INC., Scarsdale, N. Y. Filed Mar. 9, 1939.

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HALLSTAR

For Antiseptic Cream, Antiseptic Shampoo, and Antiseptic Ointments.
Claims use since December, 1938.

Ser. No. 416,861. MERCK & Co. INC., Rahway, N. J. Filed Mar. 9, 1939.

CUMID

For Sedative and Soporific Preparation.
Claims use since Feb. 21, 1939.

Ser. No. 416,889. CATOMANCE LIMITED, Welwyn Garden City, England. Filed Mar. 10, 1939.

MYSTOLENE

For Waterproofing Compounds for Textile Goods.
Claims use since 1936.

Ser. No. 416,908. LETHELIN PRODUCTS COMPANY, INC., Wood-Ridge, N. J. Filed Mar. 10, 1939.

JAPEX

For Insecticide or Plant Spray for Killing Japanese Beetles and for the Control of Caterpillars and Beetles Attacking Shade Trees, Ornamental Plants and Flowers, Plant Lice and Many Insects Attacking Vegetable Crops.
Claims use since Jan. 10, 1939.

Ser. No. 416,952. EFFERVESCENT PRODUCTS, LTD., Chicago, Ill. Filed Mar. 11, 1939.

E-Z-OUT

For Fire Extinguishing Compound.
Claims use since Oct. 14, 1938.

Ser. No. 416,970. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Mar. 11, 1939.

RABELLON

For Preparation for the Treatment of Affections of the Nervous System.
Claims use since Feb. 7, 1939.

Ser. No. 417,005. WILLIAM FELS, doing business as Century Drug Company, New York, N. Y. Filed Mar. 13, 1939.

PARADORMIN

For Hypnotics and Sedatives.
Claims use since Feb. 20, 1939.

Ser. No. 417,006. WILLIAM FELS, doing business as Century Drug Company, New York, N. Y. Filed Mar. 13, 1939.

PARAVITA

For Preparations for the Treatment of Vitamin Deficiencies in the Human Body.
Claims use since Feb. 20, 1939.

Ser. No. 417,026. GUST MANTOS, San Francisco, Calif. Filed Mar. 13, 1939.



Gust Mantos

The portrait and signature are those of the applicant.
For Liquid Preparation for the Treatment of the Hair for Removing Dandruff and Stimulating the Growth of the Hair.
Claims use since Aug. 15, 1938.

Ser. No. 417,029. PLANT & BARNES, doing business as American Drugs Produce Co., Oakland, Calif. Filed Mar. 13, 1939.

SI-NEE-SHA

For Laxative.
Claims use since Jan. 14, 1939.

Ser. No. 417,142. SCHERING CORPORATION, Bloomfield, N. J. Filed Mar. 16, 1939.

ORETON-F

For Medicinal Hormone Preparation in Ointment Form.
Claims use since Mar. 6, 1939.

Ser. No. 417,352. WILLIAM R. WARNER & Co., INC., New York, N. Y. Filed Mar. 21, 1939.

SILOGEL

For Medicinal Preparations for the Rational Control of Gastro-Intestinal Hyperacidity.
Claims use since Mar. 14, 1939.

Ser. No. 417,508. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Mar. 25, 1939.

SURFIDE

For Materials for Chemically Treating Metallic Surfaces to Produce an Etched or Pitted Condition or a Film Thereon.
Claims use since Mar. 2, 1939.

Ser. No. 417,521. ARNOLD, HOFFMAN & CO. INCORPORATED, Providence, R. I. Filed Mar. 27, 1939.

AHCO-PEL

For Chemicals Used as Water Repellents.
Claims use since January, 1939.

Ser. No. 417,655. R. B. RHODES, doing business as Fits-No-Mo Company, Savannah, Ga. Filed Mar. 30, 1939.

FITS-NO-MO

For Dog Medicine to be Used in the Treatment of Dog Fits.
Claims use since Jan. 1, 1939.

Ser. No. 417,687. THE GLAZO COMPANY, INC., East Rutherford, N. J. Filed Mar. 31, 1939.

Glintone

For Cream Nail Polish and Liquid Nail Polish.
Claims use since Mar. 29, 1939.

Ser. No. 417,766. KRESS & OWEN COMPANY, New York, N. Y. Filed Apr. 1, 1939.



No claim is made to the words "Cough Drops" apart from the mark.
For Cough Drops.
Claims use since Jan. 13, 1939.

Ser. No. 417,784. SCHERING CORPORATION, Bloomfield, N. J. Filed Apr. 1, 1939.

CHLORYLEN

For Medicinal Preparations Recommended for the Treatment of Neuralgic and Convulsive Affections, Angina Pectoris, Oto-Rhinolaryngological Cases, Painful Conditions in the Accessory Sinuses, Catarrh of the Frontal Sinus; Also Recommended for Use in Ophthalmology for the Relief of Painful Affections of the Cornea, Iritis, Blepharospasm, and Similar Conditions; Also Recommended in Dentistry for the Relief of Painful Conditions of the Teeth, in Diseases of the Dental Periosteum and the Maxillary Sinuses and Similar Conditions.
Claims use since Dec. 12, 1915.

Ser. No. 417,816. NYAL COMPANY, Detroit, Mich. Filed Apr. 3, 1939.

NYCARBO

For Ointment Used as an Astringent and as a Soothing, Protective, and Antiseptic Agent.
Claims use since Mar. 24, 1939.

Ser. No. 417,818. NYAL COMPANY, Detroit, Mich. Filed Apr. 3, 1939.

SALVO-ZEL

For Ointment Used as an Astringent and as a Soothing, Protective, and Antiseptic Agent.
Claims use since Mar. 24, 1939.

Ser. No. 417,819. NYAL COMPANY, Detroit, Mich. Filed Apr. 3, 1939.

NYALATE

For Preparation Used in the Treatment of Coughs and Throat Irritations.
Claims use since Mar. 24, 1939.

Ser. No. 417,821. NYAL COMPANY, Detroit, Mich. Filed Apr. 3, 1939.

TRATES

For Effervescent Salt Preparation Indicated for Use in the Treatment of Gastric Hyperacidity and as an Alkalizing Agent.
Claims use since Mar. 24, 1939.

Ser. No. 417,958. DENNIS F. CONSIDINE, doing business as Roseria Company, Chicago, Ill. Filed Apr. 7, 1939.

ROSERIA

For Preparation for the Treatment of the Eyes.
Claims use since 1894.

CLASS 11

Inks and Inking Materials

Ser. No. 413,797. POPE & GRAY, INC., New York, N. Y. Filed Dec. 13, 1938.

PEE-GEE

For Printing and Lithographic Inks and Greases and Compounds Made Up of Various Kinds of Greases, Waxes, and Oils for Adjusting the Physical Properties of Such Inks.
Claims use since February, 1938.

CLASS 12

Construction Materials

Ser. No. 398,810. THE CELOTEX CORPORATION, Chicago, Ill. Filed Oct. 22, 1937.

TRAFFICTOP

For Saturated Fiber Board.
Claims use since Sept. 30, 1937.

Ser. No. 410,584. ROBERT Z. DRAKE, Omaha, Nebr. Filed Sept. 15, 1938.



For Lumber.
Claims use since Mar. 25, 1938.

Ser. No. 416,108. NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Feb. 16, 1939.

KEMPRUF

For Carbon Products Used for Construction Purposes—Namely, Carbon Bricks and Raschig Rings.
Claims use since June 2, 1937, on Raschig rings; and since Sept. 20, 1937, on carbon bricks.

Ser. No. 417,038. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill. Filed Mar. 13, 1939.

SUPER INSUBESTOS

For Woven Insulating Blankets of Glass Wool Fibers, Utilized for Insulating Steam Turbines and the Like.
Claims use since Sept. 5, 1933.

Ser. No. 417,039. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill. Filed Mar. 13, 1939.

UNIBESTOS

For Rigid Insulating Blocks and Half Tubular Members, Comprising Amphibole Fibers and a Suitable Binder Utilized for Insulating Curved and Flat Surfaces.
Claims use since Oct. 14, 1936.

Ser. No. 417,040. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill. Filed Mar. 13, 1939.

SUPER UNIBESTOS

For Rigid Insulating Material, Comprising Half Tubular Members and Flat Blocks of High Temperature Resisting Fibers and Suitable Binder for Insulating Curved and Flat Surfaces.
Claims use since Aug. 19, 1936.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 374,234. DETROIT LUBRICATOR COMPANY, Detroit, Mich. Filed Jan. 29, 1936.

DELUBALOY

For Valve Needles and Valve Seats for Expansion Valves.
Claims use since Jan. 21, 1936.

Ser. No. 416,939. AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y. Filed Mar. 11, 1939.

POWERON

For Hose Nozzles.
Claims use since Nov. 4, 1938.

Ser. No. 417,048. AUTOKRAFT BOX CORPORATION, Hanover, Pa. Filed Mar. 14, 1939.



PullmeDown

The portrait is fanciful.
For Toilet Seats Constructed of Wood, Plywood, Composition Material, or Compositions Thereof.
Claims use since Feb. 14, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 416,882. VANADIUM-ALLOYS STEEL COMPANY, Latrobe, Pa. Filed Mar. 9, 1939.

LAMITE

For Non-Ferrous Metal Alloy and Welding Rods Made of the Same for Providing Metal Objects with a Hard, Wear-Resistant and Non-Corrosive Facing or Surface.
Claims use since Feb. 16, 1939.

Ser. No. 417,382. MONARCH METAL WEATHERSTRIP CORPORATION, St. Louis, Mo. Filed Mar. 22, 1939.

METALANE

For Metal—Namely, Oxidized Aluminum in Strip Form.
Claims use since June 22, 1936.

Ser. No. 417,509. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Mar.

SURFIDE

25, 1939.
For Ferrous Metal Castings.
Claims use since Mar. 2, 1939.

CLASS 15

Oils and Greases

Ser. No. 416,771. NATIONAL GRAPHITE CO. INC., New York, N. Y. Filed Mar. 7, 1939.

LUBE-PLUS

For Supplementary Lubricating Oils.
Claims use since Aug. 15, 1938.

CLASS 16

Paints and Painters' Materials

Ser. No. 411,112. JACQUES WOLF & Co., Clifton, N. J. Filed Sept. 29, 1938.

NITROKA

For Product to be Used as an Ingredient for Lacquers and Paints.
Claims use since Oct. 8, 1937.

Ser. No. 414,385. WESTERN RAILROAD SUPPLY COMPANY, Chicago, Ill. Filed Dec. 30, 1938.



For Insulating Preservative and Non-Corrosive Paint for Various Industrial Arts.
Claims use since 1910.

Ser. No. 415,041. RALPH E. INSON, New York, N. Y. Filed Jan. 20, 1939.

RENAVENE

For Polish and Cleaner for Furniture, Finished Surfaces of Woodwork, Painted and Enameled Surfaces, and Like Finished Surfaces.
Claims use since Mar. 6, 1936.

Ser. No. 415,262. RICHARD RYDER, doing business as Reliable Sales Company, Hartford, Conn. Filed Jan. 26, 1939.

RYD-RIZE

For Automobile and Furniture Polishes and Waxes.
Claims use since June 1, 1935.

Ser. No. 417,137. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Mar. 16, 1939.

FLORLUX

For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Feb. 28, 1939.

Ser. No. 417,138. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Mar. 16, 1939.

LUXKOTE

For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Feb. 28, 1939.

Ser. No. 417,204. THE H. B. DAVIS CO., doing business as Maryland Paint Company, Baltimore, Md. Filed Mar. 18, 1939.

Renown

For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Feb. 23, 1939.

Ser. No. 417,395. BENNETT CHEMICAL COMPANY, Cambridge, Md. Filed Mar. 23, 1939.

FOUR 2222 DUCES

For Automobile Polish and Glaze.
Claims use since Feb. 24, 1939.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 400,001. EVANS PRODUCTS COMPANY, Detroit, Mich. Filed Nov. 22, 1937.

EVANS EVANS

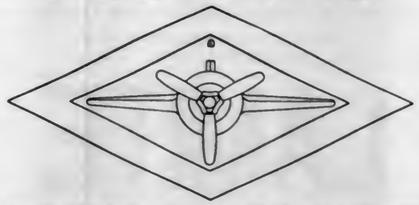
For Motor Trucks Equipped to Run on Either a Railroad Track or a Highway.
Claims use since Apr. 30, 1936.

Ser. No. 416,537. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Mar. 1, 1939.

SMOX

For Vehicle Slip Covers.
Claims use since Feb. 22, 1939.

Ser. No. 416,798. FREEDMAN-BURNHAM ENGINEERING CORPORATION, Cincinnati, Ohio. Filed Mar. 8, 1939.



The representation of the goods is disclaimed apart from the mark.
For Aeroplane Propellers.
Claims use since Feb. 7, 1939.

Ser. No. 416,898. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 10, 1939.

GENERAL

For Automobile Hot Water Heaters Using Hot Fluids from the Engine.
Claims use since Aug. 22, 1935.

Ser. No. 417,333. ENGINEERING AND RESEARCH CORPORATION, Riverdale, Md. Filed Mar. 21, 1939.

ERCO

For Composite Aircraft Propellers, Propeller Blades, and Propeller Hubs.
Claims use since April, 1938.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 404,510. ANACONDA WIRE & CABLE COMPANY, New York, N. Y. Filed Mar. 26, 1938.

AOR

For Insulated Electrical Wire and Cable.
Claims use since Mar. 10, 1938.

Ser. No. 412,532. WARREN LAMP COMPANY, Warren, Pa. Filed Nov. 8, 1938.

LINOLITE

For Electric Incandescent Lamps.
Claims use since Oct. 1, 1938.

Ser. No. 414,394. CENTURY HAIR DRYER CO., New York, N. Y., and Laurelton, N. J. Filed Dec. 31, 1938.

PIN-MASTER

For Magnetic Tool for Use by Hair Dressers in the Removal of Hair Pins from the Hair.
Claims use since July 1, 1937.

Ser. No. 414,431. ALBERT RUPRECHT, doing business as Beru-Werk, Ludwigsburg, Germany. Filed Jan. 3, 1939.

Beru

For Spark Plugs, Low Tension Fuses, Resistances, Switches, and Cable Sockets.
Claims use since April, 1919.

Ser. No. 415,094. WEBSTER ELECTRIC COMPANY, Racine, Wis. Filed Jan. 21, 1939.

WEBSTER Teletalk

For Intercommunicating Sound Amplifying and Transmitting Systems and Parts Thereof, Comprising Speakers, Amplifiers, Microphones, Inter-Connecting Circuits, and Energizing Devices Whereby Conversation at Either Point May be Heard at the Other Point of Communication.
Claims use since Nov. 15, 1936.

Ser. No. 415,254. MARTIN MANUFACTURING AND RESEARCH CORP., New York, N. Y. Filed Jan. 26, 1939.



The word "Keys" and the representation of the goods are disclaimed apart from the mark.
For Telegraph Keys.
Claims use since Jan. 12, 1939.

Ser. No. 415,412. NATIONAL ELECTRIC SCREEN CORP., Chicago, Ill. Filed Jan. 30, 1939.

INSECT-O-CUTOR

For Electrical Insect Exterminating Screens and Traps.
Claims use since Sept. 1, 1928.

Ser. No. 415,999. ROCKBESTOS PRODUCTS CORPORATION, New Haven, Conn. Filed Feb. 13, 1939.

PERMANENTLY INSULATED ROCKBESTOS WIRES AND CABLES

Except for "Rockbestos", all wording apart from the ensemble herein shown is disclaimed.
For Insulated Electric Wires and Cables.
Claims use since Feb. 3, 1939.

Ser. No. 417,256. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Mar. 20, 1939.

TEL-E-SCORE

For Electric Score Projector.
Claims use since Mar. 14, 1939.

Ser. No. 417,286. R. A. LISTER & COMPANY LIMITED, Dursley, England. Filed Mar. 20, 1939.

"START - O - MATIC"

For Electric Lighting Plant.
Claims use since July 19, 1938.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 410,982. PAUL E. ALLEN, Niles Center, Ill. Filed Sept. 26, 1938.

WAGGIE-WHEELS

Applicant disclaims the word "Wheel" apart from the mark.
For Pull Wheel Toys.
Claims use since Sept. 21, 1938.

Ser. No. 414,225. CHESTER A. JONES, Ottumwa, Iowa. Filed Dec. 27, 1938.

LITTLE CHET

For Punch Boards.
Claims use since Mar. 22, 1933.

Ser. No. 414,913. WALTER M. COLEMAN, Woodlawn, Md. Filed Jan. 17, 1939.



The picture is fanciful. The words "Card Game" are disclaimed apart from the mark.
For Card Games.
Claims use since Jan. 2, 1939.

Ser. No. 416,528. YOUNG THINGS, Pasadena, Calif. Filed Feb. 28, 1939.



The representation of a rocking horse is not claimed apart from the mark.
For Wooden Toys and Games Employing Wooden Parts.
Claims use since Oct. 9, 1935.

Ser. No. 417,908. THE FISK RUBBER CORPORATION, Chicopee Falls, Mass. Filed Apr. 6, 1939.

SKY-HITE

For Golf Balls.
Claims use since Jan. 4, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 403,750. THE BOYE NEEDLE COMPANY, Chicago, Ill. Filed Mar. 7, 1938.



For Machine Needles, Knives of Steel and Stainless Steel, Scissors and Shears.
Claims use since May 1, 1936.

Ser. No. 411,616. BRESDUCK, INC., New York, N. Y. Filed Oct. 14, 1938.

BLACK ◆ DIAMOND

For All Manner and Kinds of Barbers' Razors and Shears.
Claims use since Oct. 1, 1927.

Ser. No. 413,693. WILLCOX & GIBBS SEWING MACHINE COMPANY, New York, N. Y. Filed Dec. 10, 1938.

CUT & FOLD
W. & G. S.M. CO.

No claim is made to the words "Cut & Fold" apart from the mark.
For Machines for Forming Labels from Strip Material.
Claims use since Nov. 28, 1938.

Ser. No. 414,990. FEDERAL-MOGUL CORPORATION, Detroit, Mich. Filed Jan. 19, 1939.

BERMAX

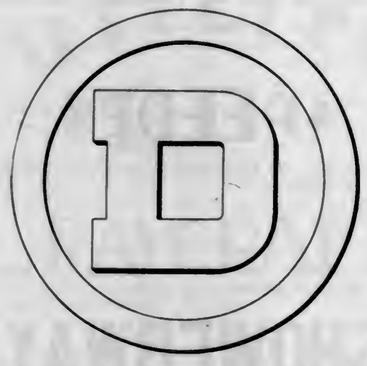
For Machinery Shaft Bearings and Journal Bearings Therefor.
Claims use since Sept. 13, 1937.

Ser. No. 415,394. JACOBSEN MANUFACTURING COMPANY, Racine, Wis. Filed Jan. 30, 1939.

LAWN QUEEN

For Power Lawn Mowers.
Claims use since Nov. 15, 1938.

Ser. No. 415,472. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio. Filed Feb. 1, 1939.



For Printing Rollers and Loom Supplies, Including Pickers, Holdups, Lug Straps, Bunters, and Bumpers.
Claims use since Oct. 1, 1927.

Ser. No. 416,409. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Feb. 25, 1939.

CU-PRO-DIE

The word "Die" is disclaimed apart from the mark.
For Steel Dies Used in Drop Forging and Analogous Machines for Forging or Stamping Metal Products.
Claims use since Feb. 8, 1939.

Ser. No. 417,403. THE FATE-ROOT-HEATH COMPANY, Plymouth, Ohio. Filed Mar. 23, 1939.

FLEXOMOTIVE

For Locomotives and Particularly Diesel-Powered Locomotives.
Claims use since Oct. 1, 1938.

CLASS 26

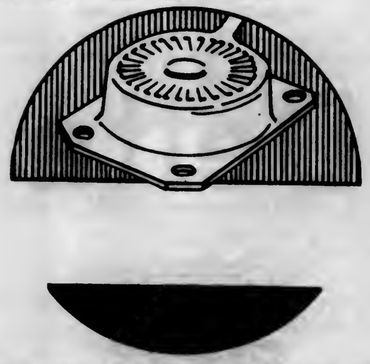
Measuring and Scientific Appliances

Ser. No. 403,536. THE AURORA SCHOOL OF PHOTO ENGRAVING, Aurora, Mo. Filed Mar. 1, 1938.

TASOPE'

For Photo-Engraving Equipment and Supplies—Namely, Cameras Including Automatic and Special Newspaper Cameras, Whirlers for Whirling Zinc Plates Including Hand and Power Whirlers, Printing Frames, Printing Lamps, Etching Machines, Printing Units, Routers, Retouching Desks, Bevelers, and Etchers, as Graded in the Trade.
Claims use since June, 1931.

Ser. No. 411,111. WHITE-RODGERS ELECTRIC COMPANY, St. Louis, Mo. Filed Sept. 29, 1938.



The representation of the diaphragm cup per se is disclaimed.
For Instruments and Controls Responsive to Temperature—Namely, Electro-Thermostatic Gas Valves, Room and Space Thermostats; Pressure-Electric and Thermo-Electric Controls, of Warm Air, Surface and Immersion Hot Water Types, for Heating and Air-Conditioning Systems, for Fan and Blower Systems, for Industrial Ovens, and for Refrigeration Systems; and Electro-Timers for Stokers.
Claims use since Nov. 22, 1937.

CLASS 27

Horological Instruments

Ser. No. 401,916. A. G. SCHWAB & SONS, INC., Cincinnati, Ohio. Filed Jan. 13, 1938.

FAITH

For Watches.
Claims use since Jan. 18, 1937.

Ser. No. 402,370. GENERAL TIME INSTRUMENTS CORPORATION, La Salle, Ill. Filed Jan. 27, 1938.

SPUR

For Clocks and Watches.
Claims use since Dec. 28, 1937.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 414,492. GEMEX COMPANY, Newark, N. J. Filed Jan. 4, 1939.

GEMSNAP

For Watch Bracelets, Watch Straps, Neck Chains, Watch Chains, Bracelets, Scarf Pins, Finger Rings, Belt Buckles, Ear Ornaments, Hair Ornaments, and Chain Snaps, All of the Foregoing Articles Made in Whole or in Part of Precious Metal or Plated with the Same.
Claims use since Oct. 28, 1938.

CLASS 31

Filters and Refrigerators

Ser. No. 402,852. "DELTA" PAPIER- UND FILTER-KOMMANDITGESELLSCHAFT, BÜNGELER & Co., Duren, Germany. Filed Feb. 9, 1938.

Delta

For Filter Papers Already Cut and Filter Papers Already Cut and Folded.
Claims use since July 14, 1924.

Ser. No. 413,237. PEPSI-COLA COMPANY, Long Island City, N. Y. Filed Nov. 28, 1938.

PEPSI-COLA

For Beverage Coolers Sold in Trade Empty.
Claims use since Feb. 15, 1896.

Ser. No. 417,684. GIBSON ELECTRIC REFRIGERATOR CORPORATION, Greenville, Mich. Filed Mar. 31, 1939.

GRENADIER

For Refrigerators.
Claims use since Mar. 22, 1939.

Ser. No. 418,003. GENERAL REFRIGERATION CORPORATION, South Beloit, Ill. Filed Apr. 8, 1939.

GR

For Refrigerating Apparatus Such as Refrigerators, Refrigerating Machines, Refrigerating Units, and Parts Thereof.
Claims use since Mar. 23, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 417,185. SEALY, INCORPORATED, Pittsburgh, Pa. Filed Mar. 17, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

ENCHANTED NIGHTS

For Mattresses and Box Springs.
Claims use since Mar. 15, 1937.

CLASS 33

Glassware

Ser. No. 403,095. SEMON BACHE & COMPANY, New York, N. Y. Filed Feb. 16, 1938.

MURAGLAS

For Sheets of Colored Glass to be Cut Up for Tiles and Other Uses for Structural Work.
Claims use since Oct. 9, 1937.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 404,080. THE ESTATE STOVE COMPANY, doing business as Speedex Appliance Company, Hamilton, Ohio. Filed Mar. 15, 1938.

SPEEDEX

For Gas, Oil, and Electric Cooking Stoves and Heaters and Parts Therefor.
Claims use since Jan. 28, 1937.

Ser. No. 404,452. THE SHOWERWAY COMPANY, Minneapolis, Minn. Filed Mar. 24, 1938.

SHOWERWAY

For Oil or Electric Water Heating, Lavatory, and Lunch Warming Units.
Claims use since Nov. 1, 1937.

Ser. No. 416,710. STURTEVANT MILL COMPANY, Boston, Mass. Filed Mar. 4, 1939.

Hydro-Clone

For Centrifugal Type Dust Collectors for Air Conditioning.
Claims use since Jan. 31, 1939.

Ser. No. 417,147. THE TORRINGTON MANUFACTURING COMPANY, Torrington, Conn. Filed Mar. 16, 1939.

AIROTOR Blower Wheels

The words "Blower Wheels" are disclaimed apart from the mark.
For Centrifugal Blower Wheels.
Claims use since Feb. 24, 1939.

Ser. No. 417,227. MODERN ENGINEERING COMPANY, INC., St. Louis, Mo. Filed Mar. 18, 1939.

CUTMASTER

For Cutting Torches.
Claims use since Mar. 3, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 408,592. APEX TIRE INC., Providence, R. I. Filed July 18, 1938.

STARTEX

For Pneumatic Tires and Tubes for Vehicle Wheels.
Claims use since July 12, 1937.

Ser. No. 414,877. THE GLOBE OIL & REFINING COMPANY, Wichita, Kans. Filed Jan. 16, 1939.

UTILITY

For Tires and Tubes.
Claims use since Jan. 5, 1939.

Ser. No. 415,748. ISADORE SPEVACK, doing business as The Raycraft Tire and Rubber Company, Brooklyn, N. Y. Filed Feb. 7, 1939.

RAYCRAFT

For Nonmetallic Tires and Rubber Inner Tubes.
Claims use since Jan. 27, 1939.

Ser. No. 418,030. ATLAS SUPPLY COMPANY, Newark, N. J. Filed Apr. 10, 1939.

Rayosafe

For Rubber Tires.
Claims use since Mar. 28, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 417,263. CHICAGO MUSICAL INSTRUMENT COMPANY, Chicago, Ill. Filed Mar. 20, 1939.

Meteor

For Reeds for Clarinets and Other Musical Instruments.
Claims use since Feb. 6, 1939.

CLASS 37

Paper and Stationery

Ser. No. 409,882. LEE PAPER COMPANY, Vicksburg, Mich. Filed Aug. 23, 1938.

Bulletin

The letter is lined for red.
For Paper for Use in Duplicating Machines.
Claims use since July 5, 1906.

Ser. No. 414,850. WILLIAMS MANUFACTURING COMPANY, Nashville, Tenn. Filed Jan. 14, 1939.

SKI-HI

For Lead Pencils.
Claims use since Mar. 1, 1938.

Ser. No. 416,471. THE MINNESOTA AND ONTARIO PAPER COMPANY, Minneapolis, Minn. Filed Feb. 27, 1939.

MINNESOTA AND ONTARIO PAPER COMPANY

Applicant disclaims the words "Forest Products" apart from the mark.
For Kraft Paper, Newsprint Paper, Halftone Paper, Drawing Paper, Catalog and Directory Paper, "Mimeograph" Paper, Novel Newspaper, Pencil Tablet, Ink Tablet, Poster Paper, Printing Manila, Railroad Manila, Railroad Writing, Dry Finish Butcher's Paper, Dry Wrapping Paper, Dry Finish Grocery Paper, Mill Wrappers, B-Publication, Circulation Book, Box Liner, A-1 Printing, A-2 Printing, Roto Printing, Paper Board, and Wrapping Paper.
Claims use since November, 1934.

CLASS 38

Prints and Publications

Ser. No. 403,352. AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS, INC., New York, N. Y. Filed Feb. 24, 1938.

MINING TECHNOLOGY

For Periodical Publication "Mining Technology".
Claims use since January, 1937.

Ser. No. 413,939. GENERAL MILLS, INC., Minneapolis, Minn. Filed Dec. 17, 1938.

Kitchen-tested

For Printed Recipe Cards Sold as Such.
Claims use since Jan. 1, 1927.

Ser. No. 414,104. THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Dec. 22, 1938.

THE AGE OF COLOR

For Publication Published from Time to Time Relating to Exterior and Interior Painting and Decorating.
Claims use since Nov. 5, 1936.

Ser. No. 415,135. MOCK, JUDSON, VOEHRINGER CO. OF NEW YORK, INC., Long Island City, N. Y. Filed Jan. 23, 1939.

"Hollywood Stars Are Wearing"

For Section of a Periodical Publication.
Claims use since Jan. 9, 1939.

Ser. No. 415,477. DEAN B. HIATT, Fort Worth, Tex. Filed Feb. 1, 1939.

SAF-T-FAX

For Daily Newspaper Features.
Claims use since Nov. 1, 1938.

Ser. No. 416,699. RAYMOND PITCAIRN, doing business as Sentinel Features, Philadelphia, Pa. Filed Mar. 4, 1939.

QUICK QUOTES

For Syndicated Newspaper Features.
Claims use since Jan. 25, 1939.

Ser. No. 416,720. THE CAXTON PRINTERS, LTD., Caldwell, Idaho. Filed Mar. 6, 1939.



For Library Books, Text Books.
Claims use since 1910.

Ser. No. 416,880. THOMAS PUBLISHING COMPANY, New York, N. Y. Filed Mar. 9, 1939.

What's New

For Periodical.
Claims use since Feb. 17, 1939.

Ser. No. 417,008. DUDLEY T. FISHER, JR., doing business as Dudley Fisher, Columbus, Ohio. Filed Mar. 13, 1939.

Right Around HOME by Dudley Fisher

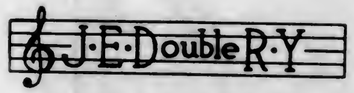
The words "Dudley Fisher" are disclaimed apart from the mark.
For Series of Cartoons.
Claims use since Jan. 30, 1938.

Ser. No. 417,365. CONSTANCE HARRIS, Providence, R. I. Filed Mar. 22, 1939.



No claim is made to the name "Constance Harris".
For Newspaper Section or Column and for Heading of a Series of Recurrent Cartoons Published from Time to Time.
Claims use since Mar. 3, 1939.

Ser. No. 417,421. JERRY VOGEL MUSIC CO., INC., New York, N. Y. Filed Mar. 23, 1939.



For Sheet Music and Books of Music.
Claims use since Mar. 27, 1933.

CLASS 39

Clothing

Ser. No. 388,366. OBERMAN & COMPANY, Jefferson City, Mo. Filed Jan. 30, 1937.

Oh B.O.Y

For Outer Shirts, Pants, and Jackets.
Claims use since December, 1919.

Ser. No. 401,509. RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 3, 1938.



Applicant disclaims the words "Ready Bak Seat" and the outline of the label apart from the mark.
For Children's Play Suits.
Claims use since Sept. 10, 1937.

Ser. No. 402,217. THE EDUCATOR SHOE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 22, 1938.



Applicant disclaims the word "Shoe" except in conjunction with the other elements of the trade-mark.
For Shoes Made of Leather, Fabric, and Combinations of Leather, Fabric, and Rubber.
Claims use since Jan. 5, 1937.

Ser. No. 404,138. SELLINGER GLOVE COMPANY, Sheboygan, Wis. Filed Mar. 16, 1938.

"Royal Mountie"

For Gloves Made of Leather and Sheep Skin with the Wool Thereon, and Processed to Look Like Fur.
Claims use since Sept. 1, 1937.

Ser. No. 410,064. THE BARR RUBBER PRODUCTS COMPANY, Sandusky, Ohio. Filed Aug. 29, 1938.

'TOPS'

For Latex Bathing Caps.
Claims use since March, 1937.

Ser. No. 412,700. EAGLE CLOTHES, New York, N. Y. Filed Nov. 14, 1938.

MALIBU

For Overcoats, Topcoats, and Suits for Men and Young Men.
Claims use since Nov. 3, 1938.

Ser. No. 413,549. FRANCES GEE GARMENT CO., Kansas City, Mo. Filed Dec. 7, 1938.



The portrait is fanciful.
For Ladies' Dresses, Frocks, Smocks, Uniforms, Slacks, Sun-Tan Suits, Beach Pajamas, Beach Overalls, Shorts; and Slack Ensembles Consisting of Trousers and Jacket, and Trousers, Skirt, and Jacket; Children's Play Suits, Cotton and Rayon Sun-Tan Suits with Removable Skirts and Rompers; Slack Ensembles Consisting of Trousers and Jacket and Trousers, Skirt, and Jacket; Beach Pajamas, Beach Overalls, and Shorts, and House Coats.
Claims use since July 14, 1937.

Ser. No. 413,981. J. F. DITTMAN COMPANY, INC., New York, N. Y. Filed Dec. 19, 1938.

DITMODE SARTORA

No claim is made to the word "Sartora" apart from the mark.
For Women's Wearing Apparel—Namely, Coats, Suits.
Claims use since Aug. 27, 1937.

Ser. No. 414,245. ADOLF VOGEL, San Antonio, Tex. Filed Dec. 27, 1938.



The words "Belt" and "Vogel" are disclaimed except as shown.
For Leather Belts for Personal Wear.
Claims use since July, 1934.

Ser. No. 414,455. LOVEMAN, JOSEPH & LOEB, Birmingham, Ala. Filed Jan. 3, 1939.

GUARANTEED FOR A YEAR
SILVER DOLLAR
LOVEMAN, JOSEPH & LOEB
BIRMINGHAM

Applicant disclaims the expressions "Guaranteed for a Year" and "Birmingham".
For Pajamas, Men's Hats, Coats, Outer Shirts, Underwear and Undershirts, and Women's Dresses.
Claims use since Dec. 1, 1937.

Ser. No. 414,622. CHAMPION BELT MANUFACTURING CO., INC., New York, N. Y. Filed Jan. 9, 1939.

Champion
STYLE LEADER

The words "Style Leader" are disclaimed apart from the mark.
For Ladies' Belts for External Use on Clothing.
Claims use since Jan. 4, 1939.

Ser. No. 415,208. ARONSON-CAPLIN COMPANY, INC., New York, N. Y. Filed Jan. 25, 1939.

STRAIT-PLUS

The word "Strait" is claimed only in connection with the other features of the mark.
For Women's Apparel Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, Panties.
Claims use since July 1, 1938.

Ser. No. 415,771. JOE & TED FUNK, New York, N. Y. Filed Feb. 8, 1939.

"Kiltshire"

For Women's, Misses', and Girls' Coats and Suits. Skirts, Dresses, Blouses, and Riding Habits and Golf Suits.
Claims use since Jan. 15, 1936.

Ser. No. 416,422. IRWILL KNITWEAR CORP., New York, N. Y. Filed Feb. 25, 1939.

"Mode de Reine"
English
BOXIES

No claim is made to the words "Mode" and "English" apart from the mark.
For Knitted Sweaters.
Claims use since November, 1938.

Ser. No. 416,566. IRIS LINGERIE COMPANY, INC., New York, N. Y. Filed Mar. 1, 1939.

Voilà

For Ladies' Underwear, Negligees, Chemises, Camisoles, Slips, Nightgowns, Panties, Petticoats, and Bed-Jackets.
Claims use since Jan. 20, 1939.

Ser. No. 416,954. JOSEPH GUTTMAN & BROS., INC., New York, N. Y. Filed Mar. 11, 1939.

JELLY BEAN

For Ladies' and Misses' Sweaters.
Claims use since Mar. 1, 1938.

Ser. No. 417,076. BELLE KNITTING CORP., New York, N. Y. Filed Mar. 15, 1939.

SCAMPERS

For Ladies' and Children's Underwear Consisting of Bloomers, Panties, Vests, Slips, and Combinations of Vest and Bloomers, and Children's Pajamas and Nightgowns.
Claims use since June 23, 1936.

Ser. No. 417,175. MAX LEVINE & COMPANY, New York, N. Y. Filed Mar. 17, 1939.

Trigonometry

For Women's Dresses and Suits.
Claims use since Feb. 10, 1939.

Ser. No. 417,221. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C. Filed Mar. 18, 1939.



For Men's and Women's Hosiery.
Claims use since Feb. 9, 1939.

Ser. No. 417,222. JULIUS KAYSER & CO., New York, N. Y. Filed Mar. 18, 1939.

Nimble-Nee

For Hosiery.
Claims use since Feb. 17, 1939.

Ser. No. 417,240. LOU TISHMAN CO. INC., New York, N. Y. Filed Mar. 18, 1939.



Applicant disclaims the word "Tweed" apart from the mark.
For Women's and Misses' Coats and Suits.
Claims use since Jan. 3, 1939.

Ser. No. 417,335. GENERAL SHOE CORPORATION, Nashville, Tenn. Filed Mar. 21, 1939.

GRAYBAR

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.
Claims use since Mar. 8, 1939.

Ser. No. 417,485. BURBROOKE MANUFACTURING CO., INC., New York, N. Y. Filed Mar. 25, 1939.

"Aqua-Boy"

For Men's and Women's Rain Coats and Rain Capes.
Claims use since Mar. 17, 1939.

Ser. No. 417,556. SEYMOUR TROY, INC., New York, N. Y. Filed Mar. 27, 1939.

ABDULLAH

For Ladies' Shoes Made of Leather, Fabric, and Combinations of These Materials.
Claims use since Mar. 13, 1939.

Ser. No. 417,593. W. O. STEELE, doing business as All-Star Manufacturing Co., Atlanta, Ga. Filed Mar. 28, 1939.

SOUTH-EAST

For Cravats.
Claims use since Feb. 7, 1939.

Ser. No. 417,697. LEWELL MFG. CO. INC., New York, N. Y. Filed Mar. 31, 1939.

Tummy Tucker

For Girdles.
Claims use since Mar. 1, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 415,932. ARPIN PRODUCTS, INC., Dover, Del. Filed Feb. 11, 1939.

R-PINS

The word "Pins" is disclaimed.
For Hair Pins.
Claims use since Jan. 24, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 400,185. BIGELOW-SANFORD CARPET CO. INC., Thompsonville, Conn. Filed Nov. 27, 1937.

BIGELOW BANNER

Applicant is the owner of registration No. 47,212, renewed, for the word "Bigelow" under the 10-year proviso.
For Woven Textile Rugs.
Claims use since Nov. 9, 1937.

Ser. No. 408,936. G. H. RAUSCHENBURG, INC., Dalton, Ga. Filed July 22, 1938.

Pride Of Georgia

The word "Georgia" is disclaimed except as shown.
For Bedspreads, Bath Mats, and Other Chenille and Tufted Articles.
Claims use since June 5, 1938.

Ser. No. 410,124. THE LAMPL SPORTSWEAR MANUFACTURING COMPANY, Cleveland, Ohio. Filed Aug. 29, 1938.

Lampl
CLEVELAND, OHIO
EXCLUSIVE FASHIONS
PANTLIKA BUDAPEST

Applicant disclaims all words except "Lampl" apart from the mark.
For Knitted, Netted, and Textile Piece Goods, Manufactured of Silk, Wool, Cotton, Rayon, and of a Mixture of Any or All of Such Materials.
Claims use since July 1, 1938.

Ser. No. 413,818. COLONIAL COVERLET COMPANY, INC., Chattanooga, Tenn. Filed Dec. 14, 1938.

Featherdale
CHENILLE SPREAD



Applicant disclaims the words "Chenille Spread" and "Chattanooga, Tenn." apart from the mark.
For Bedspreads.
Claims use since Oct. 15, 1938.

Ser. No. 414,500. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y. Filed Jan. 4, 1939.

LORRAINE
KASHALORA

Applicant is owner of T. M. Reg. No. 218,398 effected under the 10-year proviso.
For Fabrics in the Piece of Worsted, Flannel, Cotton, Silk, Rayon, Wool, Linen, and/or Combinations Thereof.
Claims use since Sept. 1, 1938.

Ser. No. 415,435. SAMUEL EHRMAN CO. INC., New York, N. Y. Filed Feb. 1, 1939.

Spun Lace
A KORDE FABRIC

Applicant disclaims the words "Lace" and "A Korde Fabric" apart from the mark.
For Laces, Embroideries in the Piece, Consisting of Rayon, Cotton and Synthetic Wool and Silk Yarn or Mixtures Thereof.
Claims use since Jan. 3, 1938.

Ser. No. 416,248. THE COLUMBIA MILLS, INC., New York, N. Y. Filed Feb. 20, 1939.

CRESCENT

For Window Shade Cloth in the Piece.
Claims use since Jan. 1, 1915.

Ser. No. 416,664. UTILITY DRESS CO., New York, N. Y. Filed Mar. 3, 1939.

PINE PARK PRINTS

The word "Prints" is disclaimed apart from the mark.
For Piece Goods of Cotton, Rayon, and Combinations Thereof, Used in the Manufacture of Ladies' Dresses and Blouses.
Claims use since Mar. 8, 1938.

Ser. No. 416,864. MOUNT HOPE FINISHING COMPANY, Dighton, Mass. Filed Mar. 9, 1939.

Wataset

For Finished Textile Fabrics in the Piece, Including Broadcloth and Other Fabrics Composed in Whole or in Part of Cotton.
Claims use since Feb. 3, 1939.

Ser. No. 416,865. MOUNT HOPE FINISHING COMPANY, Dighton, Mass. Filed Mar. 9, 1939.

Wataset

For Textile Fabrics in the Piece Including Broadcloth and Other Fabrics Composed in Whole or in Part of Cotton.
Claims use since Mar. 1, 1939.

CLASS 43

Thread and Yarn

Ser. No. 417,125. FLEISHER YARNS, INC., New York, N. Y. Filed Mar. 16, 1939.

STURDY-KNIT

For Yarns for Art Needlework.
Claims use since Mar. 1, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 407,676. LUCKY CLUB, INC., St. Louis, Mo. Filed June 20, 1938.

LUCKY CLUB COLA

No claim is made to the word "Cola" apart from the mark.
For Nonalcoholic Carbonated Cola Flavored Beverage.
Claims use since Nov. 27, 1936.

Ser. No. 416,658. SLIM JIM BOTTLING CO., INC., Winston-Salem, N. C. Filed Mar. 3, 1939.

COLA

The drawing is lined for red. No claim is made for the word "Cola" apart from the mark.
For Carbonated nonalcoholic, Noncereal, Maltless Beverages and Syrups Therefor.
Claims use since 1921.

Ser. No. 416,851. HIGH ROCK GINGER ALE COMPANY, Baltimore, Md. Filed Mar. 9, 1939.

CHOC NIP

For Nonalcoholic Maltless Beverages Sold as Soft Drinks.
Claims use since Feb. 16, 1937.

Ser. No. 416,852. HIGH ROCK GINGER ALE COMPANY, Baltimore, Md. Filed Mar. 9, 1939.

CHIP CHOC

For Nonalcoholic Maltless Beverages Sold as Soft Drinks, and Extracts Used in Making Same.
Claims use since Feb. 9, 1937.

Ser. No. 417,074. THE YORKE BEVERAGES, INC., Yonkers, N. Y. Filed Mar. 14, 1939.

LIME FIZZ

No claim is made to the words "Lime Fizz" apart from the mark.
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used in Making the Same.
Claims use since December, 1938.

Ser. No. 417,097. NATIONAL GRAPE CORPORATION, Brocton, N. Y. Filed Mar. 15, 1939.

GRAPE ART

The word "Grape" is disclaimed apart from the mark.
For Grape Juice and Grape Juice Concentrates.
Claims use since Mar. 2, 1939.

Ser. No. 417,098. NATIONAL GRAPE CORPORATION, Brocton, N. Y. Filed Mar. 15, 1939.

GRAPE HEART

The word "Grape" is disclaimed apart from the mark.
For Grape Juice and Grape Juice Concentrates.
Claims use since Mar. 2, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 387,061. CANINE VITA-CANDY COMPANY, INC., Waterbury, Conn. Filed Dec. 23, 1936.



For Vitamine Candy for Domestic Animals.
Claims use since Dec. 16, 1936.

Ser. No. 402,533. CARRIE E. MARCY, doing business as Marcy Ranch, Santa Ana, Calif. Filed Jan. 31, 1938.

NAVY GREATEST

No claim is made to the word "Greatest" apart from the mark.

For Fresh Citrus Fruit.

Claims use since Jan. 19, 1938.

Ser. No. 404,098. WESCO FOODS COMPANY, Cincinnati, Ohio. Filed Mar. 15, 1938.

HY-SCORE

For Evaporated Milk.

Claims use since Feb. 21, 1938.

Ser. No. 406,820. NATIONAL BISCUIT COMPANY, New York, N. Y. Filed May 27, 1938.

WAFFLE

For Bakery Products—Namely, Ice Cream Cones.

Claims use since Mar. 1, 1932.

Ser. No. 407,123. BERCUT-RICHARDS PACKING COMPANY, Sacramento, Calif. Filed June 6, 1938.



The drawing is lined for blue and gold. No claim is made to the representation of a label apart from the mark.

For Canned Fruits and Canned Vegetables.

Claims use since October, 1937.

Ser. No. 411,259. FRANK BELMONTE, doing business as Granada Packing Company, Alhambra, Calif. Filed Oct. 3, 1938.



No claim is made to the word "Granada" apart from the mark.

For Fresh Citrus Fruit.

Claims use since July 12, 1938.

Ser. No. 411,869. J. S. IVINS' SON, INC., Philadelphia, Pa. Filed Oct. 21, 1938.

Sandy~

TRICKS

For Cookies.

Claims use since May 4, 1929.

Ser. No. 413,250. C. S. TAYLOR & CO., Davenport, Fla. Filed Nov. 28, 1938.



No claim is made to the word "Sweets" apart from the mark. The drawing is lined for gold and red.

For Crystallized Citrus Fruit Candy, Honey, Kumquat Syrup, and Fruit Cake.

Claims use since Oct. 1, 1934.

Ser. No. 413,307. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Filed Nov. 30, 1938. Under act of Feb. 20, 1905, as amended June 10, 1938.

MELLOW MILK *Homogenized*

The words "Milk Homogenized" are disclaimed apart from the mark shown.

For Homogenized Milk.

Claims use since June 15, 1934.

Ser. No. 413,687. SEALTEST, INC., Baltimore, Md., and New York, N. Y. Filed Dec. 10, 1938. Under act of Feb. 20, 1905, as amended June 10, 1938.

Sealtest

For Milk, Buttermilk, and Other Cultured Milks, Cream, Sour Cream, Chocolate Milk, Cheese and Cheese Foods, Ice Cream, Ice Cream Novelties, Ices and Sherbets, and Eggs.

Claims use since Apr. 1, 1935.

Ser. No. 413,694. AMERICAN POP CORN COMPANY, Sioux City, Iowa. Filed Dec. 12, 1938.

CARNIVAL

For Raw and Popped Pop Corn, Both Salted and Buttered.

Claims use since Dec. 2, 1938.

Ser. No. 414,561. GENERAL MILLS, INC., Minneapolis, Minn. Filed Jan. 6, 1939.

Larro

For Feeds for Carnivorous, Herbivorous, and Omnivorous Animals, Particularly Feeds for Cattle, Poultry, Swine, Calves, Dogs, Sheep, Foxes, Rabbits, and Goats; Flour, Particularly Wheat Flour; and Cottonseed Meal and Soybean Meal.

Claims use since June 15, 1912.

Ser. No. 415,312. THE TOPIT COMPANY, Los Angeles, Calif. Filed Jan. 27, 1939.

TOP IT WITH

TOPIT

No claim is made to the words "Top It With" apart from the mark.

For Strawberry, Raspberry, Butterscotch, Caramel, Pineapple, and Chocolate Syrup for Flavoring Ice Cream, Puddings, Cake, and for Use as a Topping.

Claims use since April, 1938.

Ser. No. 415,631. THE BORDEN COMPANY, New York, N. Y. Filed Feb. 6, 1939.



Applicant is the present owner of United States registration No. 111,905.

For Pasteurized Cheese Food Mixture of Processed American Cheese, Cream, Dried Skim Milk, and Vegetable Coloring.

Claims use since June 15, 1938.

Ser. No. 415,896. KEENO PACKING COMPANY, South Gate, Calif. Filed Feb. 10, 1939.

Healthway

For Canned Dog and Cat Food.

Claims use since Jan. 31, 1934.

Ser. No. 415,984. GEORGES-GEORGE DE MET & BROS., INC., Chicago, Ill. Filed Feb. 13, 1939.



GEORGES
GEORGE DE MET & BROS

Applicant's name is disclaimed apart from the mark.

For Candy.

Claims use since Oct. 1, 1938.

Ser. No. 415,985. JOHN A. HERMANN, doing business as Hot Diggitty Products, Chicago, Ill. Filed Feb. 13, 1939.



All wording except "Diggitty" is disclaimed apart from the mark.

For Barbecue Table Extract for Flavoring Meats, Fish, and Fowl.

Claims use since Nov. 25, 1938.

Ser. No. 416,021. TRINITY COTTON OIL CO., Dallas, Tex. Filed Feb. 14, 1939. Under 10-year proviso.

TRINITY

For Shortening, and Salad and Cooking Oils Made from Cottonseed.

Claims use since 1892.

Ser. No. 416,340. JAMES S. REX, Media, Pa. Filed Feb. 23, 1939.

RANGER JOE

For Wheat, Rice, and Corn in a Puffed or Flaked Form.
Claims use since Nov. 19, 1937.

Ser. No. 416,800. INDEPENDENT FOOD PRODUCTS CO. INC., Newark, N. J. Filed Mar. 8, 1939.



Applicant disclaims the representation of the eggs apart from the mark.
For Eggs.
Claims use since March, 1938.

Ser. No. 416,843. J. C. CONNELL, doing business as Rio Grande Citrus Distributors, Alamo, Tex. Filed Mar. 9, 1939.

OL' MAN RIVER

For Fresh Citrus Fruits.
Claims use since Nov. 25, 1938.

Ser. No. 416,986. ASSOCIATED GROWERS OF BROWNSVILLE, Brownsville, Tex. Filed Mar. 13, 1939.



For Fresh Vegetables.
Claims use since Nov. 3, 1938.

Ser. No. 417,410. NESTRA PACKING COMPANY, Berkeley, Mich. Filed Mar. 23, 1939.

LIFE GUARD

For Dog Food.
Claims use since Aug. 7, 1934.

Ser. No. 417,412. NESTRA PACKING COMPANY, Berkeley, Mich. Filed Mar. 23, 1939.

BIG 5

For Dog Food.
Claims use since Nov. 3, 1937.

CLASS 47

Wines

Ser. No. 400,571. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed Dec. 7, 1937.

ESMERALDA

For Wines.
Claims use since Apr. 30, 1937.

Ser. No. 414,960. HARRY MOTTSMAN & CO., INC., New York, N. Y. Filed Jan. 18, 1939.



For Champagne.
Claims use since Jan. 31, 1938.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 413,579. JOSEPH S. FINCH AND COMPANY, New York, N. Y., and Schenley, Pa. Filed Dec. 8, 1938.

Schenley's
Tender Grain

Applicant is the owner of registration No. 311,054, effected under the 10-year proviso, covering the word "Schenley".
For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials
Claims use since June 28, 1938.

Ser. No. 416,126. TOM WALKER, INC., Pittsburgh and Glenfield, Pa. Filed Feb. 16, 1939.

Tom's Own

For Whiskey.
Claims use since Jan. 27, 1939.

Ser. No. 416,186. WILLIAM GREER & CO. LIMITED, Glasgow, Scotland. Filed Feb. 18, 1939.



The outline of the label and all spoken symbols, with the exception of "Greer's", "O. V. H." and "Wm. Greer & Co." are disclaimed apart from the mark.
For Scotch Whisky.
Claims use since 1890.

Ser. No. 417,267. DESTILERIA TROPICAL, Camuy and Arecibo, P. R. Filed Mar. 20, 1939.

RON BERITO

The word "Ron" is disclaimed apart from the mark.
For Rum.
Claims use since Aug. 26, 1938.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 412,388. THE PARTY MART, INC., New York, N. Y. Filed Nov. 4, 1938.

PACKAGED PARTY

The words "Packaged Party" are disclaimed apart from the mark.
For Package of Small Articles, Such as Candy, Paper Hats, Toy Balloons, Cakes, Paper Table Cloths and Napkins; Said Goods Being Sold as a Unit and Being Appropriate for Use at Social Parties—to-wit, at Groups of Persons Gathered Together to Participate in Some Form of Amusement or Entertainment.
Claims use since Oct. 14, 1938.

Ser No. 416,395. ANCHOR CAP & CLOSURE CORPORATION, Long Island City, N. Y. Filed Feb. 25, 1939.



For Caps or Closures.
Claims use since July 18, 1938.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 16, 1939

367,358. WINES. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J.
Filed January 16, 1936. Serial No. 373,747. PUBLISHED NOVEMBER 30, 1937. Class 47.

367,359. BAKERY PRODUCTS—NAMELY, CAKES, PIES, BREAD, AND ROLLS. MAIER'S BAKERY, Reading, Pa.
Filed May 15, 1936. Serial No. 378,491. PUBLISHED SEPTEMBER 20, 1938. Class 46.

367,360. WINES. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J.
Filed December 15, 1936. Serial No. 386,778. PUBLISHED MARCH 2, 1937. Class 47.

367,361. STEAM DRIERS AND VALVES FOR LOCOMOTIVES. DRI-STEAM VALVE SALES CORPORATION, New York, N. Y.
Filed December 23, 1936. Serial No. 387,062. PUBLISHED MARCH 7, 1939. Class 13.

367,362. WALL BRUSHES, DUST CLOTHS, MOPS AND MOP HANDLES, BROOMS, WHISK BROOMS, FEATHER DUSTERS, AND PLAIN NON-IMPREGNATED SILVER CLOTHS. THE FRIEDSTRASS CO., New York, N. Y.
Filed December 31, 1936. Serial No. 387,322. PUBLISHED MARCH 7, 1939. Class 29.

367,363. APPARATUS USED IN FACSIMILE AND TELEGRAPH APPARATUS FOR THE TRANSMISSION OF PICTURES AND MESSAGES BY ELECTRIC SIGNALS OVER COMMUNICATION CHANNELS TO REMOTE POINTS. FINCH TELECOMMUNICATIONS LABORATORIES, INC., New York, N. Y.
Filed February 10, 1937. Serial No. 388,712. PUBLISHED MARCH 7, 1939. Class 21.

367,364. CANNED AND FRESH FROZEN FRUITS, CANNED AND FRESH FROZEN BERRIES, CANNED AND FRESH FROZEN VEGETABLES, ETC. JOHN SEXTON & CO., Chicago, Ill.
Filed June 5, 1937. Serial No. 393,736. PUBLISHED MARCH 7, 1939. Class 46.

367,365. DISPLAY RACKS, OR STANDS MADE OF SHEET METAL FOR DISPLAY OR TRANSPORT OF CONTAINERS. AMERICAN CAN COMPANY, New York, N. Y.
Filed October 2, 1937. Serial No. 398,028. PUBLISHED FEBRUARY 22, 1938. Class 32.

367,366. CRYSTAL MICROPHONES, CRYSTAL PICK-UPS, PICK-UP SCRATCH FILTERS, MICROPHONE STANDS, VIBRATION PICK-UPS, AND CRYSTAL RECORDING CUTTERS FOR USE IN CONNECTION WITH RADIO BROADCASTING, PUBLIC ADDRESS SYSTEMS, PHONOGRAPHIC RECORDING AND REPRODUCING, ETC. ASTATIC MICROPHONE LABORATORY, INC., Youngstown, Ohio.
Filed October 18, 1937. Serial No. 398,604. PUBLISHED MARCH 7, 1939. Class 21.

367,367. FRESH ORANGES, LEMONS, GRAPEFRUIT, LIMES, AND TANGERINES. LEE COUNTY PACKING COMPANY, Fort Myers, Fla.
Filed November 4, 1937. Serial No. 399,305. PUBLISHED JULY 26, 1938. Class 46.

367,368. MATTRESSES. A. MICON, doing business as Atlas Bedding Company, Milwaukee, Wis.
Filed November 10, 1937. Serial No. 399,587. PUBLISHED MARCH 7, 1939. Class 32.

367,369. SEWING MACHINES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 9, 1937. Serial No. 400,658. PUBLISHED FEBRUARY 8, 1938. Class 23.

367,370. BICYCLES AND STRUCTURAL PARTS THEREOF. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 27, 1937. Serial No. 401,247. PUBLISHED MARCH 7, 1939. Class 19.

367,371. WHISKEY, GIN, RUM, BRANDY, ALCOHOLIC CORDIALS, AND GRAIN ALCOHOL. CLIFTON SPRINGS DISTILLING CO., Wilmington, Del., and Lawrenceburg, Ind.
Filed January 13, 1938. Serial No. 401,849. PUBLISHED MARCH 7, 1939. Class 49.

367,372. DOG FOOD. KELLOGG COMPANY, Battle Creek, Mich.
Filed January 19, 1938. Serial No. 402,047. PUBLISHED MARCH 7, 1939. Class 46.

367,373. GINGER ALE, GRAPE PUNCH, ROOT BEER, CONCENTRATED FRUIT SYRUPS FOR SODA FOUNTAIN USE, ORANGE SODA, LIME SODA, LEMON SODA, GRAPE-FRUIT SODA, GRAPE PUNCH CONCENTRATE, GINGER ALE CONCENTRATE, LIME RICKY CONCENTRATE, SPARKLING SOUR CONCENTRATE, ROOT BEER CONCENTRATE, GRAPEFRUIT CONCENTRATE, ORANGE BEVERAGE BASE CONCENTRATE, AND DAIRY ORANGE DRINK CONCENTRATE, ORANGE JUICE PRESERVATIVE. CALIFORNIA CITRUS JUICE EXCHANGE, INCORPORATED, Santa Ana, Calif.
Filed February 1, 1938. Serial No. 402,551. PUBLISHED MARCH 7, 1939. Class 45.

367,374. LUBRICATING OIL. CONTINENTAL OIL COMPANY, Ponca City, Okla.
Filed February 10, 1938. Serial No. 402,900. PUBLISHED FEBRUARY 21, 1939. Class 15.

367,375. SHORTENING IN SOLID FORM AND OF VEGETABLE ORIGIN, FOR USE IN COOKING AND BAKING, AS IN THE PREPARATION OF CAKE ICINGS. CURT MICHAELIS, Jersey City, N. J.
Filed March 8, 1938. Serial No. 403,822. PUBLISHED NOVEMBER 15, 1938. Class 46.

367,376. WOOLEN, RAYON, AND LINEN PIECE GOODS. STAR-MAID DRESSES, INC., New York, N. Y.
Filed March 25, 1938. Serial No. 404,497. PUBLISHED MARCH 7, 1939. Class 42.

367,377. CANNED FOOD FOR DOGS, CATS, AND CARNIVOROUS ANIMALS. ATLAS CANNING COMPANY, INC., New York and Glendale, N. Y.
Filed April 9, 1938. Serial No. 405,050. PUBLISHED OCTOBER 4, 1938. Class 46.

367,378. TOOLS FOR POSITIONING THE TOOTHED PINIONS OF DIFFERENTIAL GEARINGS IN AXLE HOUSINGS. AUTOMOTIVE GEAR WORKS, INC., Richmond, Ind.
Filed April 11, 1938. Serial No. 405,098. PUBLISHED MARCH 7, 1939. Class 23.

367,379. ATHLETIC SOCKS, HOSIERY, AND MITTENS MADE OF KNITTED FABRIC. PORTAGE HOSIERY COMPANY, Portage, Wis.
Filed April 22, 1938. Serial No. 405,749. PUBLISHED MARCH 7, 1939. Class 39.

367,380. DRAWING AND PRESSING DIES, DRAW PLATES, MANDRILS, DRAW NOZZLES, PRESSURE NOZZLES, PRESSING SNOUTS FOR PRESSURES OF BRICKS AND BRIQUETTES, ETC. MEUTSCH, VOIGTLÄNDER & CO., VORMALS GEWERKSCHAFT WALLRAM, Essen-Ruhr, Germany.
Filed May 21, 1938. Serial No. 406,595. PUBLISHED MARCH 7, 1939. Class 23.

367,381. DRAWING AND PRESSING DIES, DRAW PLATES, MANDRILS, DRAW NOZZLES, PRESSURE NOZZLES, PRESSING SNOUTS FOR PRESSURES OF BRICKS AND BRIQUETTES, ETC. MEUTSCH, VOIGTLÄNDER & CO., VORMALS GEWERKSCHAFT WALLRAM, Essen-Ruhr, Germany.
Filed May 21, 1938. Serial No. 406,596. PUBLISHED MARCH 7, 1939. Class 23.

367,382. DRAWING AND PRESSING DIES, DRAW PLATES, MANDRILS, DRAW NOZZLES, PRESSURE NOZZLES, ETC. MEUTSCH, VOIGTLÄNDER & CO., VORMALS GEWERKSCHAFT WALLRAM, Essen-Ruhr, Germany.
Filed May 21, 1938. Serial No. 406,597. PUBLISHED MARCH 7, 1939. Class 23.

367,383. ELECTRIC STORAGE BATTERIES AND BATTERY PARTS. RED-BAR BATTERY COMPANY, Dayton, Ohio.
Filed June 18, 1938. Serial No. 407,640. PUBLISHED MARCH 7, 1939. Class 21.

367,384. AUGER BITS. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio.
Filed June 24, 1938. Serial No. 407,865. PUBLISHED MARCH 7, 1939. Class 23.

367,385. ELECTRIC LAMPS AND COMBINATION ELECTRIC LAMPS AND FANS. AIR-O-LAMP CORPORATION, Chicago, Ill.
Filed June 25, 1938. Serial No. 407,893. PUBLISHED MARCH 7, 1939. Class 21.

367,386. PRESSURE TYPE OIL BURNERS FOR BOILERS OR FURNACES. BRANFORD PRODUCTS CORP., New York, N. Y.
Filed June 29, 1938. Serial No. 408,007. PUBLISHED MARCH 7, 1939. Class 34.

367,387. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. HAROLD OPPENHEIMER, Kansas City, Mo.
Filed July 5, 1938. Serial No. 408,202. PUBLISHED MARCH 7, 1939. Class 19.

367,388. STAPLING MACHINES, TACKERS, AND PLIERS FOR FASTENING TOGETHER SUCH MATERIALS AS PAPER, CARDBOARD, AND/OR CLOTH AND/OR THE LIKE. PARROT SPEED FASTENER CORPORATION, New York and Long Island City, N. Y.
Filed July 2, 1938. Serial No. 408,258. PUBLISHED MARCH 7, 1939. Class 23.

367,389. MACHINES USED TO PRINT AND IMPRESS DATA UPON COUPONS. INTERNATIONAL BUSINESS MACHINES CORPORATION, Endicott, N. Y.
Filed July 8, 1938. Serial No. 408,314. PUBLISHED MARCH 7, 1939. Class 23.

367,390. MACHINES USED TO PRINT WITH SETTABLE TYPE AND CHANGEABLE TYPE BEARING KEYS ON PAY CARDS AND ON A PROOF TAPE. INTERNATIONAL BUSINESS MACHINES CORPORATION, Endicott, N. Y.
Filed July 23, 1938. Serial No. 408,841. PUBLISHED MARCH 7, 1939. Class 23.

367,391. METALLIC ELECTRODES FOR WELDING MACHINES. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed August 3, 1938. Serial No. 409,221. PUBLISHED MARCH 7, 1939. Class 14.

367,392. CANNED VEGETABLES, DRIED VEGETABLES, CANNED FRUITS, DRIED FRUITS, OLIVE OIL, OLIVES, FRUIT JUICES FOR FOOD PURPOSES, AND CHEESE. UNITED PURE FOOD CO., New York, N. Y.
Filed September 7, 1938. Serial No. 410,346. PUBLISHED NOVEMBER 15, 1938. Class 46.

367,393. MEN'S AND BOYS' SUITS AND OVERCOATS. ARKWRIGHT, INCORPORATED, New York, N. Y.
Filed September 8, 1938. Serial No. 410,353. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,394. DRIED PRUNES, BEANS, RICE, FIGS, CURRANTS, MACARONI, AND SPAGHETTI, CANNED TOMATOES WITH PURÉE FROM TRIMMINGS, ETC. DAVID GLASS & SONS WHOLESALE GROCERS INC., Brooklyn, N. Y.
Filed September 9, 1938. Serial No. 410,392. PUBLISHED MARCH 7, 1939. Class 46.

367,395. RIBBON OF RUBBER HYDROHALIDE, AND MORE PARTICULARLY RUBBER HYDROCHLORIDE, FOR TYING PURPOSES AND OTHER USES. FREYDBERG BROS., INC., Stamford, Conn.
Filed September 10, 1938. Serial No. 410,428. PUBLISHED MARCH 7, 1939. Class 37.

367,396. HOUSEHOLD CUTLERY OF BASE METAL—NAMELY, ALL KINDS OF KNIVES AND FORKS AND SPOONS, ETC. CATTARAUGUS CUTLERY COMPANY, Little Valley, N. Y.
Filed September 15, 1938. Serial No. 410,579. PUBLISHED MARCH 7, 1939. Class 23.

367,397. WINE. J. & S. VIOLET FRERES, Thuir, France.
Filed September 19, 1938. Serial No. 410,758. PUBLISHED MARCH 7, 1939. Class 47.

367,398. MEN'S SUITS, PANTS, AND OVERCOATS. A. SAGNER & SONS, INC., Baltimore, Md.
Filed October 1, 1938. Serial No. 411,185. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,399. WOMEN'S COATS AND SUITS. FRANK LEVINSOHN & CO. INC., New York, N. Y.
Filed October 4, 1938. Serial No. 411,323. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,400. FROZEN CONFECTIONS. JOE LOWE CORPORATION, New York, N. Y.
Filed October 12, 1938. Serial No. 411,536. PUBLISHED DECEMBER 6, 1938. Class 46.

367,401. SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. DR. A. POSNER SHOES, INC., New York, N. Y.
Filed October 14, 1938. Serial No. 411,614. PUBLISHED MARCH 7, 1939. Class 39.

367,402. SEMIPREPARED PUDDINGS PREPARED AND SOLD IN THE FORM OF A POWDERED MIXTURE, AND FOR CHOCOLATE MALT FOOD PREPARATION CONSISTING OF SUGAR, COCOA, MALT, AND SKIMMED MILK SOLIDS TO BE USED FOR MAKING MILK BEVERAGES. HYMAN GOODMAN, doing business as Paradise Packing Co., New York, N. Y., assignor to Goodman Products Corp., New York, N. Y.
Filed October 24, 1938. Serial No. 411,992. PUBLISHED JANUARY 10, 1939. Class 46.

367,403. PIPE LINE TRANSPORTATION UNITS FOR PLASTIC CONCRETE, AND PARTS THEREOF, INCLUDING PIPING, VALVES, AND OTHER PIPE FITTINGS. CHAIN BELT COMPANY, Milwaukee, Wis.
Filed October 25, 1938. Serial No. 412,024. PUBLISHED MARCH 7, 1939. Class 13.

367,404. ELECTRIC CURRENT RECTIFIERS, ELECTRIC BATTERY CHARGERS, RECTIFIER BATTERY CHARGERS. RAYTHEON MANUFACTURING COMPANY, Newton, Mass.
Filed October 27, 1938. Serial No. 412,116. PUBLISHED MARCH 7, 1939. Class 21.

367,405. UNSHELLED NUTS. THE GRAHAM CO., INC., New York, N. Y.
Filed October 29, 1938. Serial No. 412,181. PUBLISHED MARCH 7, 1939. Class 46.

367,406. HAMMER MILLS. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill.
Filed November 7, 1938. Serial No. 412,472. PUBLISHED MARCH 7, 1939. Class 23.

367,407. ELECTRIC-MOTOR OIL. GULF OIL CORPORATION, Pittsburgh, Pa.
Filed November 9, 1938. Serial No. 412,550. PUBLISHED FEBRUARY 28, 1939. Class 15.

367,408. SYRUPS FOR ICE CREAM AND WHEAT CAKES. JOHN HALAISHYN, New York, N. Y.
Filed November 9, 1938. Serial No. 412,552. PUBLISHED MARCH 7, 1939. Class 46.

367,409. SWEATERS AND SCARFS FOR WOMEN, MISSES, AND CHILDREN. LILLIAN BALSAM, doing business as Golftown Sportswear Company, New York, N. Y.
Filed November 10, 1938. Serial No. 412,582. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,410. FORCED DRAFT COOLING AND VENTILATING UNITS. COMFORTAIRE CORPORATION, Washington, D. C.
Filed November 10, 1938. Serial No. 412,591. PUBLISHED MARCH 7, 1939. Class 34.

367,411. COAL, WOOD, GAS, OIL, AND COMBINED GAS AND ELECTRIC RANGES. WROUGHT IRON RANGE COMPANY, St. Louis, Mo.
Filed November 15, 1938. Serial No. 412,787. PUBLISHED MARCH 7, 1939. Class 34.

367,412. DRY CLEANING PREPARATION FOR CLEANING FABRICS AND PAINTED AND VARNISHED SURFACES, GLASS, BATHTUBS, AND THE LIKE. FRANK H. VOIOT, doing business as The Perfex Co., Ottumwa, Iowa.
Filed November 17, 1938. Serial No. 412,891. PUBLISHED FEBRUARY 21, 1939. Class 4.

367,413. WIDE ELASTIC FABRICS. THE GRANBY ELASTIC WEB LIMITED, Granby, Quebec, Canada.
Filed November 21, 1938. Serial No. 413,011. PUBLISHED MARCH 7, 1939. Class 42.

367,414. FUEL OILS AND LUBRICATING OILS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 25, 1938. Serial No. 413,117. PUBLISHED FEBRUARY 21, 1939. Class 15.

367,415. INSULATED COPPER WIRE AND MOTOR GENERATORS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 25, 1938. Serial No. 413,120. PUBLISHED MARCH 7, 1939. Class 21.

367,416. PUTTY KNIVES AND SCRAPERS AND SEAM ROLLERS IN THE PAPER HANGING ART. HYDE MANUFACTURING COMPANY, Southbridge, Mass.
Filed November 25, 1938. Serial No. 413,126. PUBLISHED MARCH 7, 1939. Class 23.

367,417. INFANTS' DISPOSABLE DIAPERS. EDWARD A. MCCORMICK, New York, N. Y.
Filed November 25, 1938. Serial No. 413,129. PUBLISHED MARCH 7, 1939. Class 39.

367,418. TURBULENCE RECTIFIERS FOR PREVENTING TURBULENCE IN FLUIDS ENTERING AN OIL AND GAS SEPARATOR OR THE LIKE. SMITH SEPARATOR CORPORATION, Tulsa, Okla.
Filed November 25, 1938. Serial No. 413,153. PUBLISHED MARCH 7, 1939. Class 23.

367,419. LUBRICATING GREASE. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed November 25, 1938. Serial No. 413,159. PUBLISHED FEBRUARY 21, 1939. Class 15.

367,420. COTTON, RAYON, AND WOOLEN FABRICS IN THE PIECE. HERBERT HARRIS, New York, N. Y.
Filed November 26, 1938. Serial No. 413,183. PUBLISHED MARCH 7, 1939. Class 42.

367,421. WOMEN'S WEARING APPAREL—NAMELY, COATS, CLOAKS, DRESSES, AND SUITS. DAVID FINK, Chicago, Ill.
Filed November 28, 1938. Serial No. 413,222. PUBLISHED MARCH 7, 1939. Class 39.

367,422. LADIES' AND MISSES' COATS AND SUITS. ZIMRAY, INC., New York, N. Y.
Filed December 1, 1938. Serial No. 413,376. PUBLISHED MARCH 7, 1939. Class 39.

367,423. PIECE GOODS OF COTTON, RAYON, SILK, AND FLAX, INDIVIDUALLY, OR IN ANY COMBINATION. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed December 3, 1938. Serial No. 413,430. PUBLISHED MARCH 7, 1939. Class 42.

367,424. UNITS FOR VAPORIZING, ATOMIZING, EMULSIFYING, EJECTING, AND CIRCULATING VARIOUS FLUIDS TO CONDITION ROOM ATMOSPHERE AND ALSO ARTICLES AND COMMODITIES MANUFACTURED OR IN THE PROCESS OF MANUFACTURE. CARL S. ALLEN, doing business as Steamaire Company, Cincinnati, Ohio.
Filed December 6, 1938. Serial No. 413,506. PUBLISHED MARCH 7, 1939. Class 34.

367,425. ELECTRONIC AND AUDIO APPARATUS AND DEVICES—NAMELY, OSCILLATORS, ATTENUATORS, AUDIO AMPLIFIERS, AND MICROPHONES. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed December 6, 1938. Serial No. 413,515. PUBLISHED MARCH 7, 1939. Class 21.

367,426. RAW AND REFINED SUGARS. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, San Francisco, Calif.
Filed December 7, 1938. Serial No. 413,535. PUBLISHED MARCH 7, 1939. Class 46.

367,427. JOURNAL BEARINGS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed December 7, 1938. Serial No. 413,574. PUBLISHED MARCH 7, 1939. Class 23.

367,428. METAL BRACKETS FOR HOLDING FURRING STRIPS. SIMPLON PRODUCTS CORPORATION, New York, N. Y.
Filed December 8, 1938. Serial No. 413,597. PUBLISHED MARCH 7, 1939. Class 13.

367,429. COUNTERS FOR INDICATING OR REGISTERING THE OPERATIONS PERFORMED OR THE QUANTITY OF MATERIAL USED BY VARIOUS TYPES OF MACHINES. DURANT MANUFACTURING CO., Milwaukee, Wis.
Filed December 9, 1938. Serial No. 413,625. PUBLISHED MARCH 7, 1939. Class 26.

367,430. WHISKEY. GOODERHAM & WORTS LIMITED, Detroit, Mich., and Peoria, Ill.
Filed December 9, 1938. Serial No. 413,632. PUBLISHED MARCH 7, 1939. Class 49.

367,431. FRESH VEGETABLES AND FRESH FRUITS—NAMELY, PINEAPPLE. HAWAII PRODUCE ASSN., Honolulu, Territory of Hawaii.
Filed December 9, 1938. Serial No. 413,634. PUBLISHED MARCH 7, 1939. Class 46.

367,432. MOTOR OIL. THE OHIO OIL CO., Findlay, Ohio.
Filed December 9, 1938. Serial No. 413,638. PUBLISHED FEBRUARY 21, 1939. Class 15.

367,433. PHOTOGRAPHIC GOODS—NAMELY, CAMERAS, TRIPODS, ENLARGERS, AND PHOTOGRAPHIC ACCESSORIES, MORE PARTICULARLY LIGHT FILTERS AND LENSES. PHOTO UTILITIES, INC., New York, N. Y.
Filed December 9, 1938. Serial No. 413,639. PUBLISHED MARCH 7, 1939. Class 26.

367,434. PHOTOGRAPHIC GOODS—NAMELY, CAMERAS AND PARTS THEREFOR, EXPOSURE METERS, ENLARGERS, FILTERS, TRIPODS, AND LENSES, FILM CONTAINERS. PHOTO UTILITIES, INC., New York, N. Y.
Filed December 9, 1938. Serial No. 413,640. PUBLISHED MARCH 7, 1939. Class 26.

367,435. ELECTRICAL FIXTURES—NAMELY, RECEPTACLES, ROSETTES, JUNCTION BOXES, SWITCHES, AND LAMP BASES. PORCELAIN PRODUCTS, INC., Findlay and Carey, Ohio.
Filed December 10, 1938. Serial No. 413,682. PUBLISHED MARCH 7, 1939. Class 21.

367,436. WELL DRILLING TOOLS AND EQUIPMENT—VIZ, BASKET STRUCTURES FOR USE IN FORMING A BARRIER BETWEEN THE WELL CASING AND WELL BORE DURING CEMENTING OPERATIONS. BAKER OIL TOOLS, INC., Huntington Park, Calif.
Filed December 12, 1938. Serial No. 413,098. PUBLISHED MARCH 7, 1939. Class 23.

367,437. WOMEN'S CLOTH COATS AND SUITS. KIRSHBAUM-HELBRAUN, INC., Chicago, Ill.
Filed December 12, 1938. Serial No. 413,717. PUBLISHED MARCH 7, 1939. Class 39.

367,438. LADIES' AND MISSES' CLOTH COATS, SUITS, AND COAT AND SUIT COMBINATIONS. I. MARKS & CO., INC., New York, N. Y.
Filed December 12, 1938. Serial No. 413,722. PUBLISHED MARCH 7, 1939. Class 39.

367,439. PASSENGER AND COMMERCIAL AUTOMOBILES. FORD MOTOR COMPANY, Dearborn, Mich.
Filed December 12, 1938. Serial No. 413,761. PUBLISHED MARCH 7, 1939. Class 19.

367,440. GRANULATED SUGAR. COMPANIA AGRICOLA CARABAYLLO, Lima, Peru.
Filed December 14, 1938. Serial No. 413,763. PUBLISHED MARCH 7, 1939. Class 46.

367,441. FABRICS IN THE PIECE, MADE OF SILK, RAYON, OR OTHER SYNTHETIC FIBERS, WOOL, COTTON, OR ANY ONE OR MORE OF THE FOREGOING. DOUCET, New York, N. Y.
Filed December 14, 1938. Serial No. 413,822. PUBLISHED MARCH 7, 1939. Class 42.

367,442. PAPER—NAMELY, WRITING PAPER, PRINTING PAPER, PAPER ROLLS, PAPER STRIPS, RECEIPT PAPER; AND STATIONERY—NAMELY, FORM BOOKS, SALES BOOKS, RECEIPT BOOKS, STATEMENT BOOKS, AND CASH REGISTER ACCOUNT BOOKS. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed December 14, 1938. Serial No. 413,838. PUBLISHED MARCH 7, 1939. Class 37.

367,443. DISTRIBUTOR CAPS. TRANSPARENT DISTRIBUTOR CAP AND MOTOR PARTS CO., Scottdale, Pa.
Filed December 14, 1938. Serial No. 413,844. PUBLISHED MARCH 7, 1939. Class 21.

367,444. PRESERVED FISH. JOÃO DA CRUZ GARGALO, doing business as João C. Gargalo, Setubal, Portugal.
Filed December 15, 1938. Serial No. 413,858. PUBLISHED MARCH 7, 1939. Class 46.

367,445. PRESERVED FISH. JOÃO DA CRUZ GARGALO, doing business as João C. Gargalo, Setubal, Portugal.
Filed December 15, 1938. Serial No. 413,859. PUBLISHED MARCH 7, 1939. Class 46.

367,446. CANDY BARS. EUCLID CANDY CO. OF CALIFORNIA, INC., San Francisco, Calif.
Filed December 16, 1938. Serial No. 413,900. PUBLISHED MARCH 7, 1939. Class 46.

367,447. WOMEN'S AND GIRLS' KNITTED SWEATERS AND BLOUSES. WILSON BROS. & COHEN INC., New York, N. Y.
Filed December 16, 1938. Serial No. 413,923. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,448. NAILS. THE INDEPENDENT NAIL AND PACKING COMPANY INC., Bridgewater, Mass.
Filed December 17, 1938. Serial No. 413,948. PUBLISHED MARCH 7, 1939. Class 13.

367,449. PIECE GOODS OF LINEN AND COTTON MIXTURE. COOPER'S, INCORPORATED, Kenosha, Wis.
Filed December 19, 1938. Serial No. 413,983. PUBLISHED MARCH 7, 1939. Class 42.

367,450. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED AND FABRICATED SWIM SUITS, SWEATERS, AND TRUNKS. SOUTHWEST SECURITY MORTGAGE CORP., doing business as Knitcraft Mills, and also as Calcraft, Los Angeles, Calif.
Filed December 19, 1938. Serial No. 414,015. PUBLISHED MARCH 7, 1939. Class 39.

367,451. CAMEL'S HAIR AND WOOL CLOTH IN THE PIECE. S. STROOCK & CO. INC., New York, N. Y.
Filed December 19, 1938. Serial No. 414,016. PUBLISHED MARCH 7, 1939. Class 42.

367,452. LLAMA AND WOOL CLOTH IN THE PIECE. S. STROOCK & CO. INC., New York, N. Y.
Filed December 19, 1938. Serial No. 414,017. PUBLISHED MARCH 7, 1939. Class 42.

367,453. WOMEN'S AND MISSES' SLACKS, JACKETS, PLAYSUITS, OUTER SHORTS, SLACK SUITS, OVERALLS, AND BEACH COATS. CHARLES KOMAR & SONS, New York, N. Y.
Filed December 20, 1938. Serial No. 414,031. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,454. WOMEN'S AND MISSES' PAJAMAS, NIGHTGOWNS, AND RAYON UNDERWEAR. CHARLES KOMAR & SONS, New York, N. Y.
Filed December 20, 1938. Serial No. 414,032. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,455. PIECE GOODS WITH A PATENT LEATHER COVERING. MAX LAWRENCE, INC., New York, N. Y.
Filed December 20, 1938. Serial No. 414,033. PUBLISHED MARCH 7, 1939. Class 50.

367,456. ALE. JACOB RUPPERT, New York, N. Y.
Filed December 20, 1938. Serial No. 414,044. PUBLISHED MARCH 7, 1939. Class 48.

367,457. COLOGNE, PERFUME, AND SACHET. MARTIN DE BOTELHO, New York, N. Y.
Filed December 21, 1938. Serial No. 414,057. PUBLISHED FEBRUARY 7, 1939. Class 6.

367,458. MEN'S SPORT SHIRTS, SPORT TROUSERS, SPORT JACKETS, SPORT SCARVES, BASQUE SHIRTS, AND SPORT COATS. SPORTVILLE MENS WEAR, INC., New York, N. Y.
Filed December 21, 1938. Serial No. 414,087. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,459. HOSIERY. BEAR BRAND HOSIERY CO., Kankakee and Chicago, Ill.
Filed December 23, 1938. Serial No. 414,139. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,460. LADIES' AND MISSES' DRESSES, DRESS AND JACKET COMBINATIONS, AND EVENING COATS, JACKETS, AND WRAPS. BONRAY DANCE FROCKS, INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,182. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,461. WRITING PAPERS, PARTICULARLY LEDGER, RECORD, BOND, LINEN, ONION SKIN, LOOSE-LEAF, BANK NOTE, BANK PARCHMENT, TYPEWRITER, AND MANUSCRIPT COVER. L. L. BROWN PAPER COMPANY, Adams, Mass.
Filed December 27, 1938. Ser. No. 414,214. PUBLISHED MARCH 7, 1939. Class 37.

367,462. VENETIAN BLIND SLATS. G. B. LEWIS COMPANY, Watertown, Wis.
Filed December 27, 1938. Serial No. 414,231. PUBLISHED MARCH 7, 1939. Class 32.

367,463. CHILDREN'S ONE PIECE DRESS AND PLAY SUITS. YOUTH INCORPORATED, Kansas City, Mo.
Filed December 28, 1938. Serial No. 414,251. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,464. PRICE TAGS AND TICKETS. THE MONARCH MARKING SYSTEM COMPANY, Dayton, Ohio.
Filed December 28, 1938. Serial No. 414,269. PUBLISHED MARCH 7, 1939. Class 37.

367,465. HOSIERY. RICH'S, INC., Atlanta, Ga.
Filed December 28, 1938. Serial No. 414,272. PUBLISHED FEBRUARY 28, 1939. Class 39.

367,466. FOOD PRODUCTS—NAMELY, CANNED VEGETABLES, FISH, FRUITS, CRANBERRY SAUCE, EVAPORATED MILK, AND SPAGHETTI. SAVEMORE MARKETS, INC., Jamaica, N. Y.
Filed December 28, 1938. Serial No. 414,275. PUBLISHED MARCH 7, 1939. Class 46.

367,467. LIQUID PREPARATION FOR CLEANING PAINTED AND VARNISHED FLOORS, CEMENT FLOORS, WALLS, TILE, AND LINOLEUM HAVING INCIDENTAL POLISHING PROPERTIES. THE PIONEER MANUFACTURING CO., Cleveland, Ohio.
Filed December 30, 1938. Serial No. 414,362. PUBLISHED MARCH 7, 1939. Class 4.

367,468. COMBINATION CIGARETTE HOLDER AND ASH RECEIVER. ASHCO CORP., New York, N. Y.
Filed December 31, 1938. Serial No. 414,387. PUBLISHED MARCH 7, 1939. Class 8.

367,469. MEN'S SPORT SHIRTS, SPORT JACKETS, AND SPORT SLACKS. THE BEDFORD SHIRT COMPANY, New York, N .Y.
Filed December 31, 1938. Serial No. 414,389. PUBLISHED MARCH 7, 1939. Class 39.

367,470. LADIES' BLOUSES. WILLIAM NETZKY, doing business as Susquehanna Waist Company, Philadelphia, Pa.
Filed December 31, 1938. Serial No. 414,407. PUBLISHED MARCH 7, 1939. Class 39.

367,471. FRESH VEGETABLES. CHEMI-CULTURE COMPANY, Montebello, Calif.
Filed January 3, 1939. Serial No. 414,435. PUBLISHED MARCH 7, 1939. Class 46.

367,472. FRESH VEGETABLES AND FRESH DECIDUOUS FRUITS. R. A. NEMANICK, Salinas, Calif.
Filed January 3, 1939. Serial No. 414,463. PUBLISHED MARCH 7, 1939. Class 46.

367,473. MATTRESSES, BOX SPRINGS, AND UPHOLSTERED FURNITURE. OSIASON, INC., Fall River, Mass.
Filed January 3, 1939. Serial No. 414,465. PUBLISHED MARCH 7, 1939. Class 32.

367,474. FRESH GRAPES. SAM SURABIAN, doing business as Sam Surabian & Sons, Dinuba, Calif.
Filed January 3, 1939. Serial No. 414,475. PUBLISHED MARCH 7, 1939. Class 46.

367,475. LIGHT SENSITIVE PHOTOGRAPHIC PAPER. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed January 4, 1939. Serial No. 414,489. PUBLISHED MARCH 7, 1939. Class 26.

367,476. DENTAL FLOSS HOLDERS. ISABELLE HENNE, Brooklyn, N. Y.
Filed January 6, 1939. Serial No. 414,564. PUBLISHED MARCH 7, 1939. Class 44.

367,477. LIQUID LEVEL GAUGES. THE ZIP ABRASIVE COMPANY, Cleveland, Ohio.
Filed January 6, 1939. Serial No. 414,585. PUBLISHED MARCH 7, 1939. Class 26.

367,478. INTERNAL COMBUSTION ENGINES. AMERICAN CAR AND FOUNDRY MOTERS COMPANY, New York, N. Y.
Filed January 7, 1939. Serial No. 414,587. PUBLISHED MARCH 7, 1939. Class 23.

367,479. GOLF BALLS. WALGREEN CO., Chicago, Ill.
Filed January 7, 1939. Serial No. 414,607. PUBLISHED MARCH 7, 1939. Class 22.

367,480. READY MIXED, DRY, PASTE, OR POWDERED PAINTS—NAMELY, FLAT PAINTS AND GLOSS PAINTS, VARNISHES, PAINT ENAMELS, STAINS, ROOF PAINTS, AND LACQUERS. I. F. LAUCKS, INC., Seattle, Wash.
Filed January 10, 1939. Serial No. 414,663. PUBLISHED MARCH 7, 1939. Class 16.

367,481. PENS, FOUNTAIN PENS, AND PENCILS. GENE KAPP, New York, N. Y.
Filed January 11, 1939. Serial No. 414,699. PUBLISHED MARCH 7, 1939. Class 37.

367,482. WOVEN COTTON BANDAGES FOR MEDICAL, ATHLETIC, AND VETERINARY USES. MOLD-TO-FORM FABRICS INC., Philadelphia, Pa.
Filed January 11, 1939. Serial No. 414,706. PUBLISHED MARCH 7, 1939. Class 44.

367,483. MATTRESSES OR CUSHIONS OF FOAMED RUBBER. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed January 11, 1939. Serial No. 414,714. PUBLISHED MARCH 7, 1939. Class 32.

367,484. LIQUID SEALS FOR ROTATING SHAFTS AND THE LIKE. AMERICAN FELT COMPANY, New York, N. Y.
Filed January 12, 1939. Serial No. 414,719. PUBLISHED MARCH 7, 1939. Class 35.

367,485. DRY AND READY MIXED PAINTS, PAINT ENAMELS, STAINS, LACQUERS, AND VARNISHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed January 12, 1939. Serial No. 414,753. PUBLISHED MARCH 7, 1939. Class 16.

367,486. FUEL OIL FOR MOTORS. SUNNY STATE OIL PRODUCTS CO., Albuquerque, N. Mex.
Filed January 12, 1939. Serial No. 414,758. PUBLISHED FEBRUARY 28, 1939. Class 15.

367,487. ICING FOR CAKES AND COOKIES. BASIC FOODS, INC., Jersey City, N. J.
Filed January 13, 1939. Serial No. 414,771. PUBLISHED MARCH 7, 1939. Class 46.

367,488. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed January 14, 1939. Serial No. 414,818. PUBLISHED MARCH 7, 1939. Class 42.

367,489. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed January 14, 1939. Serial No. 414,819. PUBLISHED MARCH 7, 1939. Class 42.

367,490. SCOTCH WHISKY. JOHN ROBERTSON & SON LIMITED, Leith, Scotland.
Filed January 14, 1939. Serial No. 414,832. PUBLISHED MARCH 7, 1939. Class 49.

367,491. CLEANING COMPOUND FOR MANUAL DISH-WASHING, LAUNDRY WORK, AND GENERAL CLEANING PURPOSES. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
Filed January 16, 1939. Serial No. 414,868. PUBLISHED MARCH 7, 1939. Class 4.

367,492. CLEANING COMPOUND ADAPTED FOR USE IN MECHANICAL AND ELECTRICAL DISHWASHING MACHINES FOR CLEANING GLASSWARE, SILVERWARE, PORCELAIN, CHINA, METALWARE, AND THE LIKE. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
Filed January 16, 1939. Serial No. 414,869. PUBLISHED MARCH 7, 1939. Class 4.

367,493. CANNED FRUITS, CANNED VEGETABLES, AND CANNED HOMINY. RON ROY CANNING COMPANY, Glendale, Calif.
Filed January 16, 1939. Serial No. 414,892. PUBLISHED MARCH 7, 1939. Class 46.

367,494. MEAT LOAVES. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed January 17, 1939. Serial No. 414,929. PUBLISHED MARCH 7, 1939. Class 46.

367,495. TOILET TISSUE PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed January 14, 1939. Serial No. 414,936. PUBLISHED MARCH 7, 1939. Class 37.

367,496. CORDUROY PIECE GOODS. A. D. JUILLIARD & CO., INC., New York, N. Y.
Filed January 19, 1939. Serial No. 415,004. PUBLISHED MARCH 7, 1939. Class 42.

367,497. TOOTHBRUSHES. I. L. LYONS & CO., LTD., New Orleans, La.
Filed January 20, 1939. Serial No. 415,046. PUBLISHED MARCH 7, 1939. Class 29.

367,498. HYPODERMIC SYRINGES. MULTIFIT, INC., New York, N. Y.
Filed January 20, 1939. Serial No. 415,052. PUBLISHED MARCH 7, 1939. Class 44.

367,499. PIPE TOBACCO. STONE TOBACCO COMPANY, Philadelphia, Pa.
Filed January 19, 1939. Serial No. 415,066. PUBLISHED MARCH 7, 1939. Class 17.

367,500. APPARATUS FOR ELECTRICAL CONTRACTION AND RELAXATION OF MUSCLES. REGINALD E. G. DEWAR, Oakland, Calif.
Filed January 23, 1939. Serial No. 415,108. PUBLISHED MARCH 7, 1939. Class 44.

367,501. ANTI-FREEZE. U. S. INDUSTRIAL CHEMICALS, INC., New York, N. Y.
Filed January 24, 1939. Serial No. 415,197. PUBLISHED MARCH 7, 1939. Class 6.

367,502. DISPLAY CABINETS. SUPPLEE-BIDDLE HARDWARE CO., Philadelphia, Pa.
Filed January 25, 1939. Serial No. 415,235. PUBLISHED MARCH 7, 1939. Class 32.

367,503. METAL FILING CABINETS. THE GENERAL FIREPROOFING CO., Youngstown, Ohio.
Filed January 26, 1939. Serial No. 415,248. PUBLISHED MARCH 7, 1939. Class 32.

367,504. LINOTYPE KEYBOARD RUBBER ROLL. BIRMINGHAM PRINTING COMPANY, Birmingham, Ala.
Filed January 28, 1939. Serial No. 415,320. PUBLISHED MARCH 7, 1939. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

367,505. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 25, 1937. Serial No. 389,382.

TWIN POWER

For Spark Plugs.
Claims use since Dec. 31, 1935.

367,506. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELEC-TRO-LYTIC SYSTEMS, INC., Columbus, Ohio. Filed Aug. 9, 1937. Serial No. 396,186.

ELECTRO SANITIZER

For Apparatus Comprising Liquid Conduits, Transformers, Wiring, Switches, and Connections for Use in Preventing Accumulation of Foreign Matter in Beer Pipes and in Treating Beer, by Passing Electric Current Through the Conduits, Pipes, and Beer.
Claims use since Apr. 1, 1935.

367,507. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FULLER BLADE COMPANY, INC., New York, N. Y., assignor to Ardell Razor Blade Corp., Newark, N. J., a corporation of New Jersey. Filed Jan. 6, 1938. Serial No. 401,603.

TINY

For Razor Blades.
Claims use since Dec. 14, 1937.

367,508. (CLASS 32. FURNITURE AND UPHOLSTERY.) SOUTHERN SPRING BED COMPANY, Atlanta, Ga. Filed Jan. 14, 1938. Serial No. 401,910.

Quiltbilt

For Mattresses and Pillows.
Claims use since Jan. 7, 1938.

367,509. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUM-MAC MANUFACTURING COMPANY, Tiffin, Ohio. Filed Feb. 10, 1938. Serial No. 402,921.

No-Nox

For Piston Cushion Stabilizers.
Claims use since Feb. 3, 1938.

367,510. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE SWISS RADIUM & DIAL PAINTING CO., INC., New York, N. Y. Filed Feb. 21, 1938. Serial No. 403,286.

Full-View

For Watch Cases, Watch Dials and Movements Thereof and Clocks.
Claims use since November, 1937.

367,511. (CLASS 27. HOROLOGICAL INSTRUMENTS.) D. A. SCHULTE, INC., New York, N. Y. Filed Mar. 8, 1938. Serial No. 403,832.

LEEDS

For Clocks and Watches.
Claims use since Feb. 25, 1938.

367,512. (CLASS 27. HOROLOGICAL INSTRUMENTS.) D. A. SCHULTE, INC., New York, N. Y. Filed Mar. 8, 1938. Serial No. 403,833.

LEEDS AGATE

For Clocks and Watches.
Claims use since Feb. 25, 1938.

367,467. LIQUID PREPARATION FOR CLEANING PAINTED AND VARNISHED FLOORS, CEMENT FLOORS, WALLS, TILE, AND LINOLEUM HAVING INCIDENTAL POLISHING PROPERTIES. THE PIONEER MANUFACTURING CO., Cleveland, Ohio.
Filed December 30, 1938. Serial No. 414,362. PUBLISHED MARCH 7, 1939. Class 4.

367,468. COMBINATION CIGARETTE HOLDER AND ASH RECEIVER. ASHCO CORP., New York, N. Y.
Filed December 31, 1938. Serial No. 414,387. PUBLISHED MARCH 7, 1939. Class 8.

367,469. MEN'S SPORT SHIRTS, SPORT JACKETS, AND SPORT SLACKS. THE BEDFORD SHIRT COMPANY, New York, N .Y.
Filed December 31, 1938. Serial No. 414,389. PUBLISHED MARCH 7, 1939. Class 39.

367,470. LADIES' BLOUSES. WILLIAM NETZKY, doing business as Susquehanna Waist Company, Philadelphia, Pa.
Filed December 31, 1938. Serial No. 414,407. PUBLISHED MARCH 7, 1939. Class 39.

367,471. FRESH VEGETABLES. CHEMI-CULTURE COMPANY, Montebello, Calif.
Filed January 3, 1939. Serial No. 414,435. PUBLISHED MARCH 7, 1939. Class 46.

367,472. FRESH VEGETABLES AND FRESH DECIDUOUS FRUITS. R. A. NEMANICK, Salinas, Calif.
Filed January 3, 1939. Serial No. 414,463. PUBLISHED MARCH 7, 1939. Class 46.

367,473. MATTRESSES, BOX SPRINGS, AND UPHOLSTERED FURNITURE. OSIASON, INC., Fall River, Mass.
Filed January 3, 1939. Serial No. 414,465. PUBLISHED MARCH 7, 1939. Class 32.

367,474. FRESH GRAPES. SAM SURABIAN, doing business as Sam Surabian & Sons, Dinuba, Calif.
Filed January 3, 1939. Serial No. 414,475. PUBLISHED MARCH 7, 1939. Class 46.

367,475. LIGHT SENSITIVE PHOTOGRAPHIC PAPER. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed January 4, 1939. Serial No. 414,489. PUBLISHED MARCH 7, 1939. Class 26.

367,476. DENTAL FLOSS HOLDERS. ISABELLE HENNE, Brooklyn, N. Y.
Filed January 6, 1939. Serial No. 414,564. PUBLISHED MARCH 7, 1939. Class 44.

367,477. LIQUID LEVEL GAUGES. THE ZIP ABRASIVE COMPANY, Cleveland, Ohio.
Filed January 6, 1939. Serial No. 414,585. PUBLISHED MARCH 7, 1939. Class 26.

367,478. INTERNAL COMBUSTION ENGINES. AMERICAN CAR AND FOUNDRY MOTERS COMPANY, New York, N. Y.
Filed January 7, 1939. Serial No. 414,587. PUBLISHED MARCH 7, 1939. Class 23.

367,479. GOLF BALLS. WALGREEN CO., Chicago, Ill.
Filed January 7, 1939. Serial No. 414,607. PUBLISHED MARCH 7, 1939. Class 22.

367,480. READY MIXED, DRY, PASTE, OR POWDERED PAINTS—NAMELY, FLAT PAINTS AND GLOSS PAINTS, VARNISHES, PAINT ENAMELS, STAINS, ROOF PAINTS, AND LACQUERS. I. F. LAUCKS, INC., Seattle, Wash.
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367,481. PENS, FOUNTAIN PENS, AND PENCILS. GENE KAPP, New York, N. Y.
Filed January 11, 1939. Serial No. 414,699. PUBLISHED MARCH 7, 1939. Class 37.

367,482. WOVEN COTTON BANDAGES FOR MEDICAL, ATHLETIC, AND VETERINARY USES. MOLD-TO-FORM FABRICS INC., Philadelphia, Pa.
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367,483. MATTRESSES OR CUSHIONS OF FOAMED RUBBER. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed January 11, 1939. Serial No. 414,714. PUBLISHED MARCH 7, 1939. Class 32.

367,484. LIQUID SEALS FOR ROTATING SHAFTS AND THE LIKE. AMERICAN FELT COMPANY, New York, N. Y.
Filed January 12, 1939. Serial No. 414,719. PUBLISHED MARCH 7, 1939. Class 35.

367,485. DRY AND READY MIXED PAINTS, PAINT ENAMELS, STAINS, LACQUERS, AND VARNISHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed January 12, 1939. Serial No. 414,753. PUBLISHED MARCH 7, 1939. Class 16.

367,486. FUEL OIL FOR MOTORS. SUNNY STATE OIL PRODUCTS CO., Albuquerque, N. Mex.
Filed January 12, 1939. Serial No. 414,758. PUBLISHED FEBRUARY 28, 1939. Class 15.

367,487. ICING FOR CAKES AND COOKIES. BASIC FOODS, INC., Jersey City, N. J.
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367,488. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
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367,489. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed January 14, 1939. Serial No. 414,819. PUBLISHED MARCH 7, 1939. Class 42.

367,490. SCOTCH WHISKY. JOHN ROBERTSON & SON LIMITED, Leith, Scotland.
Filed January 14, 1939. Serial No. 414,832. PUBLISHED MARCH 7, 1939. Class 49.

367,491. CLEANING COMPOUND FOR MANUAL DISH-WASHING, LAUNDRY WORK, AND GENERAL CLEANING PURPOSES. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
Filed January 16, 1939. Serial No. 414,868. PUBLISHED MARCH 7, 1939. Class 4.

367,492. CLEANING COMPOUND ADAPTED FOR USE IN MECHANICAL AND ELECTRICAL DISHWASHING MACHINES FOR CLEANING GLASSWARE, SILVERWARE, PORCELAIN, CHINA, METALWARE, AND THE LIKE. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
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367,493. CANNED FRUITS, CANNED VEGETABLES, AND CANNED HOMINY. ROB ROY CANNING COMPANY, Glendale, Calif.
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367,494. MEAT LOAVES. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed January 17, 1939. Serial No. 414,929. PUBLISHED MARCH 7, 1939. Class 46.

367,495. TOILET TISSUE PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed January 14, 1939. Serial No. 414,936. PUBLISHED MARCH 7, 1939. Class 37.

367,496. CORDUROY PIECE GOODS. A. D. JUILLIARD & CO., INC., New York, N. Y.
Filed January 19, 1939. Serial No. 415,004. PUBLISHED MARCH 7, 1939. Class 42.

367,497. TOOTHBRUSHES. I. L. LYONS & CO., LTD., New Orleans, La.
Filed January 20, 1939. Serial No. 415,046. PUBLISHED MARCH 7, 1939. Class 29.

367,498. HYPODERMIC SYRINGES. MULTIFIT, INC., New York, N. Y.
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Filed January 19, 1939. Serial No. 415,066. PUBLISHED MARCH 7, 1939. Class 17.

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367,501. ANTI-FREEZE. U. S. INDUSTRIAL CHEMICALS, INC., New York, N. Y.
Filed January 24, 1939. Serial No. 415,197. PUBLISHED MARCH 7, 1939. Class 6.

367,502. DISPLAY CABINETS. SUPPLEE-BIDDLE HARDWARE CO., Philadelphia, Pa.
Filed January 25, 1939. Serial No. 415,235. PUBLISHED MARCH 7, 1939. Class 32.

367,503. METAL FILING CABINETS. THE GENERAL FIREPROOFING CO., Youngstown, Ohio.
Filed January 26, 1939. Serial No. 415,248. PUBLISHED MARCH 7, 1939. Class 32.

367,504. LINOTYPE KEYBOARD RUBBER ROLL. BIRMINGHAM PRINTING COMPANY, Birmingham, Ala.
Filed January 28, 1939. Serial No. 415,320. PUBLISHED MARCH 7, 1939. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

367,505. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 25, 1937. Serial No. 389,382.

TWIN POWER

For Spark Plugs.
Claims use since Dec. 31, 1935.

367,506. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELEC-TRO-LYTIC SYSTEMS, INC., Columbus, Ohio. Filed Aug. 9, 1937. Serial No. 396,186.

ELECTRO SANITIZER

For Apparatus Comprising Liquid Conduits, Transformers, Wiring, Switches, and Connections for Use in Preventing Accumulation of Foreign Matter in Beer Pipes and in Treating Beer, by Passing Electric Current Through the Conduits, Pipes, and Beer.
Claims use since Apr. 1, 1935.

367,507. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FULLER BLADE COMPANY, INC., New York, N. Y., assignor to Ardell Razor Blade Corp., Newark, N. J., a corporation of New Jersey. Filed Jan. 6, 1938. Serial No. 401,603.

TINY

For Razor Blades.
Claims use since Dec. 14, 1937.

367,508. (CLASS 32. FURNITURE AND UPHOLSTERY.) SOUTHERN SPRING BED COMPANY, Atlanta, Ga. Filed Jan. 14, 1938. Serial No. 401,910.

Quiltbilt

For Mattresses and Pillows.
Claims use since Jan. 7, 1938.

367,509. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUM-MAC MANUFACTURING COMPANY, Tiffin, Ohio. Filed Feb. 10, 1938. Serial No. 402,921.

No-Nox

For Piston Cushion Stabilizers.
Claims use since Feb. 3, 1938.

367,510. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE SWISS RADIUM & DIAL PAINTING CO., INC., New York, N. Y. Filed Feb. 21, 1938. Serial No. 403,286.

Full-View

For Watch Cases, Watch Dials and Movements Thereof and Clocks.
Claims use since November, 1937.

367,511. (CLASS 27. HOROLOGICAL INSTRUMENTS.) D. A. SCHULTE, INC., New York, N. Y. Filed Mar. 8, 1938. Serial No. 403,832.

LEEDS

For Clocks and Watches.
Claims use since Feb. 25, 1938.

367,512. (CLASS 27. HOROLOGICAL INSTRUMENTS.) D. A. SCHULTE, INC., New York, N. Y. Filed Mar. 8, 1938. Serial No. 403,833.

LEEDS AGATE

For Clocks and Watches.
Claims use since Feb. 25, 1938.

367,513. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS B. MASTIN, doing business as Mastin Products Co., New York, N. Y. Filed Mar. 22, 1938. Serial No. 404,370.

RELAX-EYE-MILK

For Eye Lotion.
Claims use since Mar. 3, 1938.

367,514. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRCLOUGH & GOLD, INC., Boston, Mass. Filed Mar. 23, 1938. Serial No. 404,403.

DOUBLE LIFE

For Textile Fabric Glass Curtains Made of Any of the Materials Usually Employed for That Purpose, Such as Scrim, Marquisette, Voile, Organdy, Casement Cloth, Etc.
Claims use since Mar. 12, 1938.

367,515. (CLASS 32. FURNITURE AND UPHOLSTERY.) GERSTEIN BROTHERS MANUFACTURING CORPORATION, New York, N. Y. Filed Apr. 13, 1938. Serial No. 405,204.

Air-Seald

For Chair Seats, Cushions, and Pads.
Claims use since Mar. 15, 1938.

367,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MELBOURNE SPURR, doing business as Spurrway Manufacturing Company, Los Angeles, Calif. Filed Apr. 18, 1938. Serial No. 405,418.

Spurr's

OLD SAN FRANCISCO

For Beefsteak Sauce.
Claims use since Mar. 1, 1938.

367,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASTIN PRODUCTS, INC., New York, N. Y. Filed Aug. 4, 1938. Serial No. 409,241.

eye-liffs

For Device Impregnated with Lotion To Be Applied to the Eyes.
Claims use since Mar. 1, 1938.

367,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. GILLIGAN, Arlington, Va. Filed Oct. 15, 1938. Serial No. 411,633.

ARLON

TABLETS

For Preparation for the Correction of Gastric Hyperacidity and Promotion of Healing the Irritated Parts.
Claims use since Mar. 1, 1938.

367,519. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WINDING GULF OPERATORS ASSOCIATION, Beckley, W. Va. Filed Nov. 21, 1938. Serial No. 413,033.

WINDING GULF COAL

For Coal.
Claims use since Sept. 5, 1930.

367,520. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASTIN PRODUCTS, INC., New York, N. Y. Filed Dec. 23, 1938. Serial No. 414,156.

MASTIN'S

EYE-LINE

For Eye Lotion, Eye Grease, Eye Mascara, Eye Pencil, Eye Bright Set, Eye Shadow, Eyebrow Lacquer.
Claims use since Mar. 1, 1938.

367,521. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE HOUSE OF MCATEER, INC., New York, N. Y. Filed Dec. 24, 1938. Serial No. 414,192.

YALE CLUB

For Scotch Whisky.
Claims use since Oct. 10, 1934.

367,522. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAZEL B. ALLEMAN, Pendleton, Ind. Filed Jan. 20, 1939. Serial No. 415,026.

ALLEMANS COUGHDROPS

For Cough Drops.
Claims use since Sept. 17, 1936.

367,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX L. SCHWARTZ, doing business as Schwartz Drug Co., Baltimore, Md. Filed Feb. 7, 1939. Serial No. 415,619.

Suzee Brown

For Petroleum Jelly and Hair Dressing.
Claims use since April, 1932.

367,524. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERNON RUDOLPH, doing business as Krispy Kreme Doughnut Company, Winston-Salem, N. C. Filed Mar. 13, 1939. Serial No. 417,031.

Krispy Kreme

For Doughnuts.
Claims use since August, 1934.

367,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW YORKER CHEESE CO., Philadelphia, Pa. Filed Mar. 16, 1939. Serial No. 417,134.

New Yorker BRAND

For Cheese.
Claims use since November, 1933.

TRADE-MARK REGISTRATIONS RENEWED

17,035. **REPRESENTATION OF AN OPEN HAND.** PAINTS, COMPOSITIONS, ANTI-CORROSIVES, AND ANTI-FOULERS. Registered September 17, 1889. SUTER, HARTMANN & RAHTJENS COMPOSITION COMPANY, (LIMITED), London, England. Re-renewed September 17, 1939, to Red Hand Compositions Company, Inc., New York, N. Y., a corporation of New York, assignee.

124,903. **FANCIFUL REPRESENTATION OF A MAN.** PAMPHLET OR MAGAZINE PERIODICALLY PUBLISHED. Registered March 18, 1919. VICTOR SHAW RING TRAVELER CO. Renewed March 18, 1939, to Victor Ring Traveler Company, Providence, R. I., a corporation of Rhode Island, by change of name.

125,043. **DERBY.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. Registered April 8, 1919. FALLS CITY MILLS CO., Louisville, Ky., a corporation of Kentucky. Renewed April 8, 1939.

125,080. **ASBESTOCOTE.** CERTAIN NAMED CONSTRUCTION MATERIALS. Registered April 8, 1919. THE NATIONAL PAINT & VARNISH COMPANY, Cleveland, Ohio. Renewed April 8, 1939, to Minnesota Linseed Oil Paint Co., Minneapolis, Minn., a corporation of Minnesota, assigneee by mesne assignments.

125,140. **THRIFT.** FLAKED LAUNDRY SOAP. Registered April 15, 1919. THE HEWITT BROS. SOAP CO. Renewed April 15, 1939, to The Hewitt Soap Company, Inc., Dayton, Ohio, a corporation of Ohio, assignee by mesne assignments.

125,285. **FOOT REST.** HOSIERY FOR MEN, WOMEN, AND CHILDREN. Registered May 6, 1919. BUTLER BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed May 6, 1939.

125,331. **CROWN.** SMELLING-SALTS. Registered May 13, 1919. THE CROWN PERFUMERY COMPANY, New York, N. Y. Renewed May 13, 1939, to The Crown Perfumery Company Limited, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee.

125,361. **PURITAN.** CERTAIN NAMED ALIMENTARY PASTE PRODUCTS. Registered May 13, 1919. RAVARINO & FRESCHI IMPORTING & MFG. CO. Renewed May 13, 1939, to Ravarino & Freschi, Inc., St. Louis, Mo., a corporation of Missouri, by change of name.

125,391. **ECZEMATONE.** A PREPARATION FOR ECZEMA, AN OINTMENT FOR THE TREATMENT OF SKIN DISEASES, BLOOD-TONIC. Registered May 20, 1919. BARLOW CHEMICAL COMPANY, Shawnee, Okla. Renewed May 20, 1939, to Barlow Chemical Association, Oklahoma City, Okla., a common-law trust of Oklahoma, successor.

125,400. **VERITEX.** CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. Registered May 20, 1919. BUTLER BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed May 20, 1939.

125,401. **RUBAYA.** SILK FABRICS. Registered May 20, 1919. CHENEY BROTHERS, South Manchester, Conn. Renewed May 20, 1939, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut.

125,402. **SHIKII.** SILK FABRICS. Registered May 20, 1919. CHENEY BROTHERS, South Manchester, Conn. Renewed May 20, 1939, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut.

125,403. **COREAN.** FABRICS OF SILK AND SILK MIXTURES. Registered May 20, 1919. CHENEY BROTHERS, South Manchester, Conn. Renewed May 20, 1939, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut.

125,404. **SWEETBRIAR.** FABRICS OF SILK AND SILK MIXTURES. Registered May 20, 1919. CHENEY BROTHERS, South Manchester, Conn. Renewed May 20, 1939, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut.

125,836. **AN ANCHOR ON A SHIELD, ETC.** READY-MIXED PAINTS AND VARNISHES. Registered June 17, 1919. PRESERVATIVE PAINT COMPANY, Seattle, Wash., a corporation of Washington. Renewed June 17, 1939.

125,953. **LINOLEUM LOGIC.** PUBLICATIONS ISSUED REGULARLY BIMONTHLY. Registered July 22, 1919. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Renewed July 22, 1939, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania.

126,013. **CRYSTAL FLAKE.** A SHORTENING COMPOSED OF COTTON-SEED OIL AND COTTON-SEED-OIL STEARIN. Registered July 22, 1919. HODGSON OIL REFINING COMPANY, Athens, Ga., a corporation of Georgia. Renewed July 22, 1939.

126,162. **GE.** VACUUM-TUBE DISCHARGE DEVICES—NAMELY, THOSE COMMONLY KNOWN AS X-RAY TUBES. Registered July 29, 1919. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed July 29, 1939.

126,614. **CONCHO.** CERTAIN NAMED CANNED GOODS. Registered September 23, 1919. WAPLES-PLATTER GROCER COMPANY, Denison, Tex. Renewed September 23, 1939, to Waples-Platter Company, Fort Worth, Tex., a corporation of Texas, by change of name.

126,635. **ASPIR-VIM.** AN ANALGESIC TONIC. Registered September 30, 1919. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed September 30, 1939.

126,636. **INSTANTINE.** AN ANTIRHEUMATIC, ANALGESIC, AND ANTIPYRETIC. Registered September 30, 1919. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed September 30, 1939.

126,637. **INSTANTINA.** AN ANTIRHEUMATIC, ANALGESIC, AND ANTIPYRETIC. Registered September 30, 1919. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed September 30, 1939.

126,638. **INSTANTINO.** AN ANTIRHEUMATIC, ANALGESIC, AND ANTIPYRETIC. Registered September 30, 1919. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed September 30, 1939.

126,716. **SHIP.** COFFEE. Registered September 30, 1919. MACANDREWS & FORBES COMPANY, Camden, N, J., a corporation of New Jersey. Renewed September 30, 1939.

126,749. **ACE OF ACES.** DENTIFRICE AND TALCUM POWDER. Registered September 30, 1919. PENINSULAR CHEMICAL CO., Detroit, Mich. Renewed September 30, 1939, to Ace Manufacturing Co., Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

126,760. **CAMEL.** SMOKING-TOBACCO AND CIGARETTES. Registered September 30, 1919. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C., a corporation of New Jersey. Renewed September 30, 1939.

126,785. **VIKING.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered September 30, 1919. G. SOMMERS & Co., St. Paul, Minn., a corporation of Minnesota. Renewed September 30, 1939.

126,812. **INSTANTIN.** AN ANTIRHEUMATIC, ANALGESIC, AND ANTIPYRETIC. Registered September 30, 1919. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed September 30, 1939.

126,817. **ADSOL.** A DISINFECTANT AND ANTISEPTIC. Registered October 7, 1919. AMERICAN DRUGGISTS SYNDICATE. Renewed October 7, 1939, to Vadsco Sales Corporation, Long Island City, N. Y., a corporation of Delaware, assignee by mesne assignments.

126,847. **RED SEAL.** CHARCOAL. Registered October 7, 1919. FOREST PRODUCTS CHEMICAL COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed October 7, 1939.

126,898. **HI-MIXO.** SELF-RISING FLOUR. Registered October 7, 1919. SEATTLE GRAIN COMPANY. Renewed October 7, 1939, to Centennial Flouring Mills Co., Seattle, Wash., a corporation of Washington, assignee.

126,916. **ALLAN.** NON-FERROUS ALLOYS—VIZ., BEARING-BRONZE, BABBITT METALS, AND ANTI-FRICTION METALS. Registered October 14, 1919. A. ALLAN & SON, Harrison, N. J., a firm. Renewed October 14, 1939.

LABELS

REGISTERED MAY 16, 1939

52,968.—*Title:* AMERICAN HOUSEHOLD TACKS. For Tacks. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, doing business as American Steel & Wire Company, Cleveland, Ohio. Published January 30, 1939.

52,969.—*Title:* WAXED REFRIGERATOR PAPER. For Waxed Refrigerator Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

52,970.—*Title:* HEAVY WAXED PAPER. For Heavy Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

52,971.—*Title:* A V, ADDED VITALITY. For a Product Used for Adding Vitality and Corrosion Resistant Properties to Motor Fuels. AVEY PRODUCTS COMPANY, Tulsa, Okla. Published March 7, 1939.

52,972.—*Title:* A V, ADDED VITALITY. For a Product Used for Adding Vitality and Corrosion Resistant Properties to Crankcase Lubricants. AVEY PRODUCTS COMPANY, Tulsa, Okla. Published March 7, 1939.

52,973.—*Title:* COUNTY KIST. For Canned Corn. BLUE EARTH CANNING COMPANY, Blue Earth, Minn., assignor to Minnesota Valley Canning Company, Le Sueur, Minn., a corporation of Minnesota. Published September 26, 1937.

52,974.—*Title:* BORDEN'S GRADE B VITAMIN D PASTEURIZED MILK. For Grade B Vitamin D Pasteurized Milk. THE BORDEN COMPANY, New York, N. Y. Published February 21, 1939.

52,975.—*Title:* BOZEMAN'S BIG P'S. For Canned Peas. BOZEMAN CANNING COMPANY, Mount Vernon, Wash. Published January 18, 1939.

52,976.—*Title:* DUTCH WIFE. For Pillows. BURTON-DIXIE CORPORATION, Chicago, Ill. Published April 5, 1939.

52,977.—*Title:* LEMON LIME RICKEY. For Lemon Lime Rickey. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif. Published March 28, 1939.

52,978.—*Title:* EXQUISITE FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published April 7, 1939.

52,979.—*Title:* E-Z OPEN SAFETY KEG. For Kegs. COLUMBIA STEEL COMPANY, San Francisco, Calif. Published August 5, 1938.

52,980.—*Title:* A-BROX BORATED HAND SOAP. For a Borated Hand Soap. DAKO PRODUCTS CO., New York, N. Y. Published April 8, 1939.

52,981.—*Title:* MEDLEY'S PRIVATE STOCK. For Kentucky Straight Bourbon Whiskey. THE DAVIESS COUNTY DISTILLING COMPANY, INC., Owensboro, Ky. Published March 1, 1939.

52,982.—*Title:* N-P-K (PRONOUNCE ENPEEKAY) FOOD FOR GARDEN AND INDOOR PLANTS. For a Food for Garden and Indoor Plants. FENA'S SOLUBLE GARDEN PRODUCTS, New York, N. Y. Published January 25, 1939.

52,983.—*Title:* BISQUICK. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published April 3, 1939.

52,984.—*Title:* RAH-ZOOM-AH. For Rockets. THOMAS G. HITT, Seattle, Wash. Published July 1, 1937.

52,985.—*Title:* HUNTER STRAIGHT RYE WHISKEY "FIRST OVER THE BARS". For Straight Rye Whiskey. HUNTER BALTIMORE RYE DISTILLERY, INC., Baltimore, Md. Published April 14, 1939.

52,986.—*Title:* KIMBLE DOUBLE-PURPOSE GLASBAR. For Towel Bars. KIMBLE GLASS COMPANY, Vineland, N. J. Published April 6, 1939.

52,987.—*Title:* WHITEETH. For Liquid Dentifrice. N. LEVINE, Chicago, Ill. Published April 19, 1939.

52,988.—*Title:* LUCONE HERB TONIC. For a Non-Alcoholic Herb Tonic for the Hair and Scalp. LUCONE INCORPORATED, New York, N. Y. Published April 11, 1939.

52,989.—*Title:* MASTER X. For a Bleacher, Cleaner, Deodorizer and Disinfectant. MASTER CHEMICAL COMPANY, Portland, Oreg. Published June 27, 1938.

52,990.—*Title:* MENASHA WHOLE WHEAT SLICED. For Bread. MENASHA PRODUCTS COMPANY, Menasha, Wis. Published December 31, 1938.

52,991.—*Title:* FRENCHIES. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published February 7, 1938.

52,992.—*Title:* CONTINENTAL OPERA. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published January 7, 1938.

52,993.—*Title:* SMART SHOES. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published January 14, 1938.

52,994.—*Title:* BLACK CAT BRAND CANDLES. For Candles. MORTON G. NEUMANN, doing business as King Novelty Company, Chicago, Ill. Published February 2, 1939.

52,995.—*Title:* O & C. For Potato Sticks. OLNEY & CARPENTER, INC., Wolcott, N. Y. Published March 31, 1939.

52,996.—*Title:* VALLEY SWEET. For Butter. POLLOCK PAPER & BOX COMPANY, Dallas, Tex. Published April 1, 1939.

52,997.—*Title:* BLUE RIBBON. For Butter. POLLOCK PAPER & BOX COMPANY, Dallas, Tex. Published April 1, 1939.

52,998.—*Title:* CHIEF LUCKY. For Writing Tablets. PAUL E. TROUCHE, Charleston, S. C. Published April 5, 1939.

52,999.—*Title:* UNION AUTO POLISH. For Auto Polish. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Published February 28, 1939.

53,000.—*Title:* UNION RADIATOR FLUSH. For a Radiator Cleaner. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Published February 28, 1939.

53,001.—*Title:* ALKALINE CANDY BAR. For Alkaline Candy Bars. VEGETABLE PRODUCTS COMPANY, Rochester, N. Y. Published April 1, 1939.

53,002.—*Title:* GOLDEN ACRES. For Oranges. VENTURA COUNTY ORANGE & LEMON ASSOCIATION, Fillmore, Calif. Published February 16, 1939.

53,003.—*Title:* GOOD ADVICE. For Oranges. VENTURA COUNTY ORANGE & LEMON ASSOCIATION, Fillmore, Calif. Published January 19, 1939.

53,004.—*Title:* SILVER CRAFT. For Oranges. VENTURA COUNTY ORANGE & LEMON ASSOCIATION, Fillmore, Calif. Published March 13, 1939.

53,005.—*Title:* "X" KARWASH. For a Car Wash. "X" LABORATORIES, INC., New York, N. Y. Published February 21, 1939.

53,006.—*Title:* TEL-A-VISION SALES METHOD. For Advertising Display Books. X-RAY SALES METHOD, INC., Chicago, Ill. Published October 12, 1937.

PRINTS

REGISTERED MAY 16, 1939

17,383.—*Title:* NOW . . . TAILOR MADE RUGS . . . AT READY-MADE PRICES! For Rugs. BIGELOW-SANFORD CARPET CO. INC., Thompsonville, Conn. Published March 8, 1939.

17,384.—*Title:* THE SMART MODERN WAY TO COVER FLOORS . . . CHOOSE TAILOR-MADE RUGS AT 'READY-MADE' PRICES. For Rugs. BIGELOW-SANFORD CARPET CO. INC., Thompsonville, Conn. Published April 8, 1939.

17,385.—*Title:* IT'S THE MOST POPULAR 'FANCY' ROLL I KNOW! For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published April 5, 1939.

17,386.—*Title:* NEW WAY TO MAKE BISCUITS. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published April 10, 1939.

17,387.—*Title:* FREE AT YOUR GROCER'S . . . WHILE THEY LAST. For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published April 5, 1939.

17,388.—*Title:* BALDY DAN THE GULFTEX MAN START THE GIN SEASON OFF WITH THIS DOUBLE HEADER. For Gin. GULFTEX DRUG CO., INC., Houston, Tex. Published April 7, 1939.

17,389.—*Title:* BALDY DAN THE GULFTEX MAN FEATURE GULFTEX BRANDS FOR FAVORITE SUMMER DRINKS. For Rum and Gin. GULFTEX DRUG CO., INC., Houston, Tex. Published April 14, 1939.

17,390.—*Title:* BALDY DAN THE GULFTEX MAN, SALUTE. For Whiskies. GULFTEX DRUG CO., INC., Houston, Tex. Published March 17, 1939.

17,391.—*Title:* BALDY DAN, THE GULFTEX MAN, I CANNOT TELL A LIE. For Cordials. GULFTEX DRUG CO., INC., Houston, Tex. Published February 17, 1939.

17,392.—*Title:* GOOD MEASURE. For Ale and Beer. HAMPDEN BREWING COMPANY, Willimansett, Mass. Published March 27, 1939.

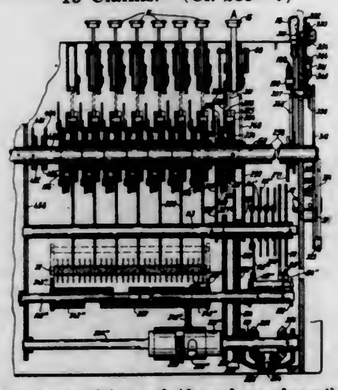
17,393.—*Title:* COLORS BY NATURE, PAINTS BY PITTSBURGH. For Paints. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Published March 7, 1939.

17,394.—*Title:* RECESSED HEAD SCREWS. For Recessed Head Screws, Screw Drivers, and Bits. REED & PRINCE MANUFACTURING COMPANY, Worcester, Mass. Published February 20, 1939.

21,078
CASH REGISTER, ACCOUNTING, AND THE LIKE MACHINE

Ernst Breitling, Berlin-Tempelhof, and Hans Schwenk, Berlin, Germany, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original No. 2,101,636, dated December 7, 1937, Serial No. 43,730, October 5, 1935. Application for reissue February 3, 1938, Serial No. 188,506. In Germany February 15, 1935
15 Claims. (Cl. 235—7)



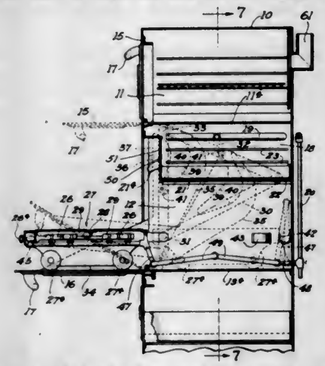
15. In a machine of the class described, the combination of a plurality of interspersed totalizers on a common support; actuators for transferring the amount on a certain one of the totalizers to any selected one of the other of said totalizers; totalizer selecting means operable to select said certain one totalizer during the first part of a single cycle of operation of the machine and to select another totalizer during the latter part of the said single cycle of operations of the machine; and means to control the selecting means in said latter part of said cycle to select any one of the totalizers into which the total is to be transferred.

21,079
APARTMENT STOVE

Vincent J. Cronyn and Henry Peruzzini, Buffalo, N. Y., assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio

Original No. 2,040,598, dated May 12, 1936, Serial No. 717,316, March 26, 1934. Application for reissue May 11, 1938, Serial No. 207,320
6 Claims. (Cl. 126—37)

1. Mechanism for moving a heating unit into and out of a compartment of a stove having a door which is movable to one position in which it closes said compartment and which is movable to an open position in which it is supported in a substantially horizontal plane, said mechanism including a carriage for said unit, a pair of connected links at each side of said carriage, one of each of said pairs of links being connected at the front of said compartment to a stationary part of said stove and the other of each of said pairs of links being connected to the front end of the adjacent side of said carriage, a lateral projection carried by one of the links of each of said pairs of links, arms carried by said door, said arms engaging said projections as said door approaches its open position to move said carriage out of said compartment upon the back of said door and a conduit for connecting said unit

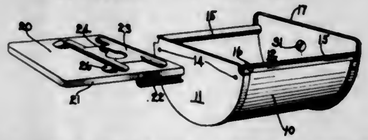


to a source of fuel when said carriage is moved to such position, said conduit being collapsible to permit said carriage to be moved back into said compartment when said door is moved to its closed position.

21,080
SLIDING ASH RECEIVER

Rudolph F. De Boer, Grand Rapids, Mich., assignor to Applied Arts Corporation, a corporation of Michigan

Original No. 2,043,886, dated June 9, 1936, Serial No. 65,785, February 26, 1936. Application for reissue January 31, 1938, Serial No. 189,179
18 Claims. (Cl. 206—19.5)



13. A device of the class described comprising, a mounting member, a container movably mounted on said mounting member, said container having a front, back and sides, one of said sides having a stop near its upper edge to normally engage said mounting means to limit the movement of the container relative to the mounting means and said side having said stop being connected to said back near its lower portion and unconnected from said back near its upper portion whereby it may be flexed sufficiently to disengage said stop from said mounting means.

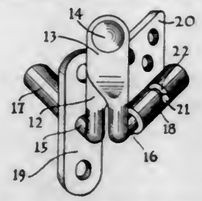
21,081
HINGE

Tallmon Ethan Horst, Chicago, Ill.

Original No. 2,071,070, dated February 16, 1937, Serial No. 4,287, January 31, 1935. Application for reissue December 28, 1938, Serial No. 248,120
10 Claims. (Cl. 16—164)

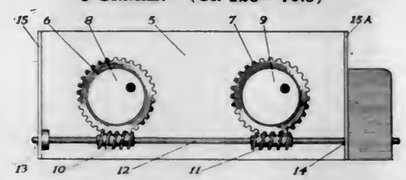
7. A hinge unit comprising a pair of links

pivoted on a common axis and having their free ends provided with portions for pivotally mounting to the elements which are to be hinged to-



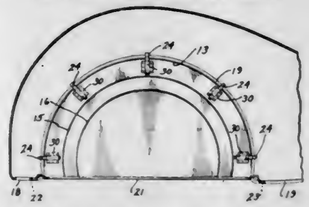
gether, said portions having their pivotal axes in a common plane which is always at an angle of substantially forty-five degrees with said common axis.

21,082
STEREOSCOPIC PICTURE
Milton M. Idzal, Sioux City, Iowa
Original No. 2,001,024, dated May 14, 1935, Serial No. 714,924, March 10, 1934. Application for reissue May 12, 1937, Serial No. 142,223
3 Claims. (Cl. 128—76.5)



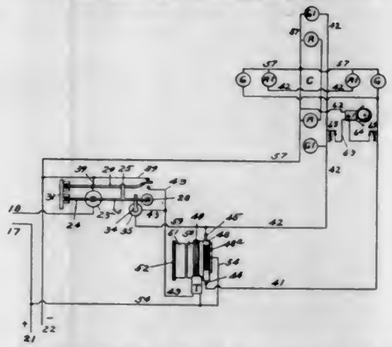
3. A vertically extending stereoscopic picture element including right and left views, the picture element having two apertures, said apertures being located in corresponding positions of the two views, rotatable disk means, one for each aperture, means for rotatably mounting said disks closely adjacent and with the plane of the disk in substantially parallel relation to the picture element, so that one disk is exposed to view through each of the apertures, target means eccentrically positioned on each disk, each target means having a design completing and forming a part of the associated right and left eye views, and means for rotating said disks.

21,083
ORNAMENTAL FENDER SKIRT
George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Detroit, Mich., a corporation of Delaware
Original No. 2,118,256, dated May 24, 1938, Serial No. 98,441, August 29, 1936. Application for reissue December 5, 1938, Serial No. 244,115
23 Claims. (Cl. 280—153)



9. In a fender skirt construction, an ornamental fender skirt having resilient trunnion members for supporting said skirt in rocking engagement on a vehicle fender.

21,084
VARIABLE TRAFFIC SIGNAL
Robert O. Nelson, deceased, late of Portland, Oreg., by the Engineering & Research Corporation, East Norwalk, Conn., assignee
Original No. 1,665,560, dated April 10, 1928, Serial No. 30,865, May 16, 1925. Reissue No. 17,602, dated February 18, 1930, Serial No. 354,672, April 12, 1929. Application for reissue December 16, 1938, Serial No. 246,209
25 Claims. (Cl. 177—337)



6. A street crossing signalling system including (A) a pair of signal circuits, one for the cross street and one for the highway (B), switching means having a normally inactive position and movable through a cycle for alternately energizing said circuits (C), normally inactive time controlled means for moving said switching means through its cycle, said time controlled means comprising (*a*) motor means adapted to move the cyclic switching means from normal position through cross street and highway positions and to the normal position, (*b*) a controlling switch for said motor means, (*c*) a timed latching device adapted to hold the motor controlling switch closed in the cross-road position, and (*d*) a timed latching device adapted to hold the motor controlling switch closed in the highway position (D), vehicle actuated means for rendering said time controlled means active, comprising a traffic actuated device adapted momentarily to move the motor controlling switch to its latched position, and (E) means including the cyclic switch for restoring the time controlled means to its inactive condition comprising (1) means controlled by the cyclic switch for maintaining the cross-road latch closed for a predetermined time in the cross-road and releasing it after the highway latching device has become effective for the highway time period, and (2) means for releasing the highway latch after a predetermined time period ending in the cross-road position, said highway latch remaining released unless the cross-road latch has been latched by a vehicle actuation during the highway or normal positions.

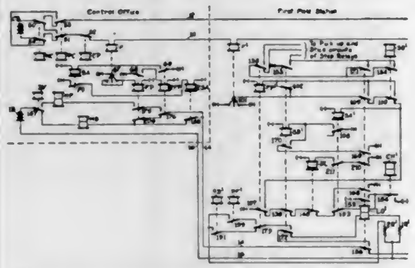
21,085
METHOD AND MEANS OF PERFORATING CASINGS
Frank E. O'Neill, Los Angeles, Calif., assignor to Edith L. O'Neill, Glendale, Calif.
Original No. 2,034,768, dated March 24, 1936, Serial No. 6,184, February 12, 1935. Application for reissue March 24, 1938, Serial No. 197,972
11 Claims. (Cl. 166—1)

1. A method of perforating a well casing at the bottom of a well which consists in lowering a device into the well and submerging the same within the column of liquid present within the well, thereafter packing off the column of liquid within the well, and then establishing communication between a casing perforator responsive to



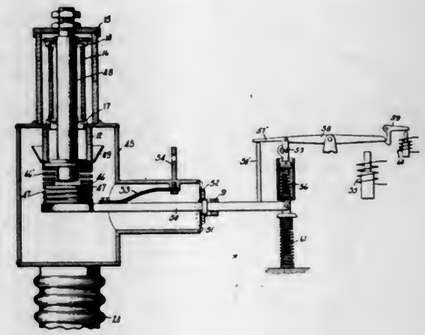
fluid flow and a compartment at reduced pressure whereby fluid from the column within the well may pass downwardly through the casing perforator responsive to fluid flow and to cause actuation of the same.

21,086
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Original No. 2,045,723, dated June 30, 1936, Serial No. 685,765, August 18, 1933. Application for reissue December 3, 1937, Serial No. 177,923
13 Claims. (Cl. 177—353)



1. In a remote control system, a control office and a plurality of field stations, a lockout relay at each station, means for simultaneously energizing a plurality of said lockout relays, means for maintaining one and only one of said lockout relays energized during an operating cycle of said system, means for transmitting messages from one of said stations to said office when the associated lockout relay is operated, a cycle marking relay, means for operating said cycle marking relay to an active condition during an operating cycle and maintain it in its active condition during such operating cycle, and slow acting means controlled by said cycle marking relay for rendering the operating circuit of said associated lockout relay ineffective for a comparatively long time interval which time interval begins when said cycle marking relay is returned to its inactive condition.

21,087
VACUUM SWITCH
William K. Rankin, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Original No. 2,090,519, dated August 17, 1937, Serial No. 712,521, February 23, 1934. Application for reissue March 28, 1939, Serial No. 264,597
23 Claims. (Cl. 200—106)



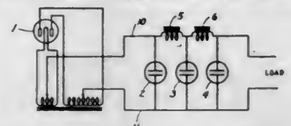
16. The combination in a circuit breaking device of the class described, of two contacts one of which is movable to engage and disengage the other and is biased for disengaging movement, means additional to the said contacts for normally resisting the bias of the movable contact and for retaining the said contact in engaging position which retaining means is normally dependent for its effectiveness upon the contact pressure, and means acting independently of the retaining means to reduce the contact pressure and to thereby cause the retaining means to release the movable contact for automatic disengaging movement.

23. A vacuum device adapted to interrupt high tension alternating current power arcs comprising a highly evacuated casing, a pair of electrodes substantially freed of occluded gases disposed within said casing, said electrodes being connected to opposite terminals of said device and arranged to form a gap for an arc within said highly evacuated casing, and means for applying a magnetic field at said gap for rapidly moving the cathode spot formed on said electrodes at such a rate that substantially no metallic vapor is formed in said arc gap.

21,088
ELECTROLYTIC DEVICE
Preston Robinson, Williamstown, and Joseph L. Collins, North Adams, Mass., assignors to Sprague Specialties Company, North Adams, Mass., a corporation of Massachusetts
Original No. 2,122,393, dated June 28, 1938, Serial No. 743,469, September 10, 1934. Application for reissue October 4, 1938, Serial No. 233,338
5 Claims. (Cl. 250—27)

1. In combination an electric circuit and an electrolytic condenser, said condenser being

formed at a voltage corresponding to the voltage which it has to stand in normal operation in said circuit and being adapted to stand for



extended time intervals a voltage exceeding considerably said normal voltage without deleterious influence to the condenser.

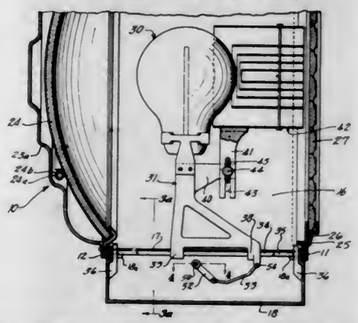
21,089

FOCUSING MEANS FOR INCANDESCENT STUDIO SPOTLIGHTS

Jess C. Rose, Los Angeles, Calif., assignor to Motion Picture Electric Products, Los Angeles, Calif., a corporation of California

Original No. 2,083,506, dated June 8, 1937, Serial No. 22,546, May 21, 1935. Application for reissue March 23, 1939, Serial No. 263,681

15 Claims. (Cl. 240—44.2)



1. In a studio spot lamp embodying a lamp casing having an optical light projecting and focusing element therein, the combination of a light source carriage within said casing adapted to carry a light source on the axis of said optical element, means supporting and guiding said carriage for forward and rearward movement in a direction parallel to the optical axis of said optical element, whereby said light source is movable between spot and flood positions, a manually rotatable shaft extending through a wall of said casing on an axis at right angles to the direction of carriage movement, an operative interconnection between the portion of said shaft that is inside the casing and said carriage so arranged that the light source is moved between spot and full flood positions within one revolution of the manually rotatable shaft, and manual shaft rotating means operating on the exterior portion of the shaft.

21,090

RUBBER PROCESS

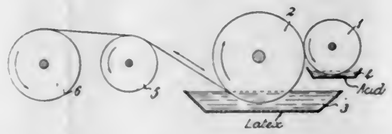
Thomas Lewis Shepherd, London, England

Original No. 2,131,982, dated October 4, 1938, Serial No. 21,265, May 13, 1935. Application for reissue January 23, 1939, Serial No. 252,512. In Great Britain May 12, 1934

10 Claims. (Cl. 18—54)

(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. In a process for producing rubber thread, wherein latex is coagulated by a coagulant, the steps of applying one of said substances to a support, applying the other of said substances to the first of said substances to partially coagulate the latex, withdrawing the partially coagulated latex from the support and permanently



reducing the cross section of the coagulum by stretching it before the coagulation process is sufficiently advanced to set up stresses by the stretching operation which tend to retract the thread.

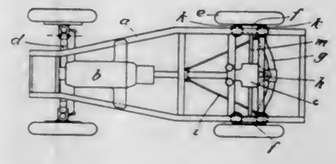
21,091

POWER DRIVEN VEHICLE

Max Wagner, Stuttgart, Germany, assignor to Daimler Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

Original No. 2,074,289, dated March 16, 1937, Serial No. 708,486, January 26, 1934. Application for reissue March 16, 1939, Serial No. 262,202. In Germany February 3, 1933

20 Claims. (Cl. 280—112)



1. In a vehicle, a frame, a pair of supporting wheels, an axle connecting said wheels, means mounted on the vehicle frame and on the axle for guiding the axle relative to the frame in a substantially vertical longitudinal central plane of the vehicle, said means comprising a substantially vertical guiding track, and guiding means coacting with this guiding track and containing resilient intermediate members in such a manner that on account of the resilience of the intermediate members at the same time a swinging movement of the axle about a longitudinal axis of the vehicle is made possible.

21,092

GARMENT AND FASTENING MEANS

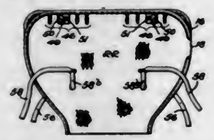
John R. Lankenau, Brighton, Mass.

Original No. 2,134,976, dated November 1, 1938, Serial No. 143,767, May 20, 1937. Application for reissue filed December 1, 1938, Serial No. 243,409

8 Claims. (Cl. 128—284)

1. A lower garment for infants, said garment comprising one or more similarly shaped fabric plies proportioned to form front and rear garment sections each comprising a waist portion and an intermediate connecting leg portion of reduced lateral extent, the rear section being so proportioned laterally that its side edge portions may be brought around at the front of the wearer to adjustable extents, the front section having at each side of its waist portion a plurality of laterally spaced vertically elongated eyelets, the rear

section having at each side of its waist portion one or more buttonholes, and, for each side of said



front section, a flat, inelastic one-piece fabric fastening strip for reception in a selected pair of the eyelets, said strip having a total extent not greatly exceeding twice the distance between adjacent eyelets, so as to form a flat band snugly surrounding the material between said eyelets, and having a button at one end portion and a buttonhole spaced from the button lengthwise the strip, said button and buttonhole being first interengageable to secure the strip removably in position in said eyelets of the front section, and said button being thereafter receivable in a buttonhole at the corresponding side of the rear section, to secure the garment in adjusted wearing position.

PATENTS

GRANTED MAY 16, 1939

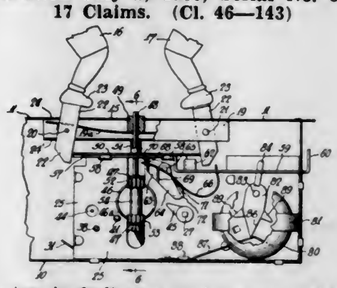
2,158,050
MOTOR FUEL
Euphime V. Bereslavsky, New York, N. Y.
No Drawing. Application March 4, 1937, Serial No. 128,929
8 Claims. (Cl. 44—9)

1. A liquid fuel for compression ignition engines comprising a high boiling petroleum hydrocarbon distillate of the gas oil type having dissolved therein less than ten percent by volume but sufficient to substantially increase the ignition acceleration of the fuel, of a pentyl nitrate selected from the group consisting of normal butyl carbinitrate, secondary butyl carbinitrate, methylpropyl carbinitrate, and diethyl carbinitrate.

2,158,051
PROCESS FOR PRODUCING MONOVINYL ACETYLENE
Herbert Berg and Hans Heim, Burghausen, and Franz Leiss, Munich, Germany, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, a corporation
No Drawing. Original application July 7, 1937, Serial No. 152,374. Divided and this application April 23, 1938, Serial No. 203,816. In Germany July 17, 1936
12 Claims. (Cl. 260—678)

1. Process for producing monovinyl acetylene which comprises passing acetylene through a solid catalyst containing a cuprous salt, magnesium chloride and an aliphatic polyhydric alcohol.

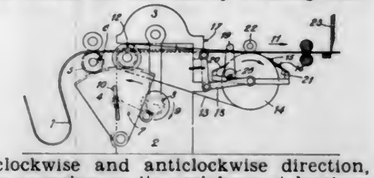
2,158,052
TOY
Samuel I. Berger, Newark, N. J.
Application July 2, 1936, Serial No. 88,498
17 Claims. (Cl. 46—143)



1. A toy including a motor, a movable platform actuated by the motor, a pair of toy figures representing combatants each having a downward extension with a horizontal pivot below the platform and a cam for displacing said extensions and thereby operating the toy figures as the platform is actuated.

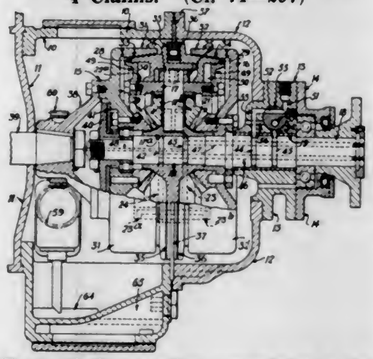
2,158,053
PRESS FOR CUTTING CARDBOARD AND SCRAP EJECTOR THEREFOR
Henri Bobst, Lausanne, Switzerland
Application November 9, 1937, Serial No. 173,549
In Switzerland November 18, 1936
11 Claims. (Cl. 164—89)

11. A press for cutting cardboard comprising a support over which a web of cardboard may be advanced, means for intermittently advancing said cardboard over said support, said means comprising a positively driven oscillating means, rotating advancing means engaging said cardboard web and also engaging said oscillating means, and means for causing rotation of said advancing means in one direction to advance said web during movement in one direction of said oscillating means and to prevent rotation of said advancing means during movement of said oscillating means in the opposite direction, a movable head carrying a punch and cooperating with said support for cutting the cardboard while said cardboard web is at rest, a rotatable drum means for alternately rotating said drum



in clockwise and anticlockwise direction, said drum carrying on its periphery at least one impaling pin for impaling and removing the cardboard scrap from said web while said drum is rotating in one direction, said drum rotating during this operation at a peripheral speed which is substantially equal to the moving speed of the cardboard web, and means connecting said drum rotating means with said oscillating means said connecting means comprising pulley means, toothed means engaging said oscillating means with said pulley means, means connecting said pulley means to said rotatable drum, the oscillating means thereby positively controlling both the alternative rotating movement of such drum and intermittent movement of said web.

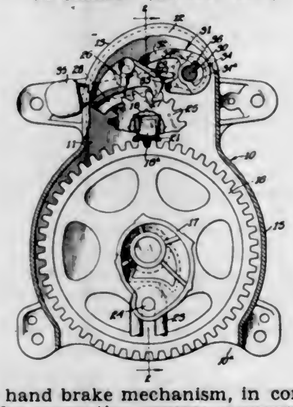
2,158,054
GEAR BOX
John Henry Bradbury, Ashton-on-Mersey, England
Application December 9, 1936, Serial No. 114,996
In Great Britain December 13, 1935
4 Claims. (Cl. 74—297)



1. Transmission gearing comprising a shaft, a centre carrier member on the shaft, clutch members slidably but relatively non-rotatably mounted on the carrier member, complementary non-

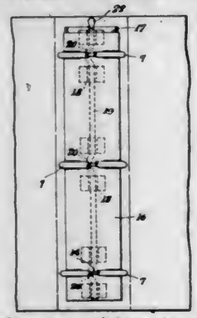
sliding clutch members mounted beside each movable clutch member, the carrier member and sliding clutch members being shaped with sliding surfaces at two different diameters to form oil pressure chambers between the carrier member and each of the sliding clutch members, the shaft and carrier member having passages for supplying oil under pressure selectively to the said chamber, means for supplying oil under pressure selectively to said passages to impart sliding movement to the sliding clutch members, means permanently coupling one of the complementary non-sliding clutch members to the shaft for rotation therewith and planetary gear pinions carried by the carrier engaging with pinion wheels on the non-sliding clutch members to form an epicyclic train of gearing.

2,158,055
HAND BRAKE
Richard W. Burnett, Chicago, Ill.
Application July 17, 1936, Serial No. 91,059
11 Claims. (Cl. 188—81.1)



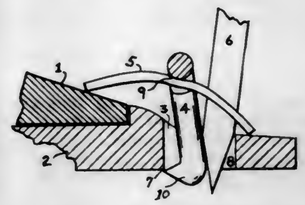
1. In hand brake mechanism, in combination, means for preventing reverse movement of said mechanism comprising a ratchet and a detent, means for moving said detent out of engagement with said ratchet, and means formed upon said detent to engage the sides of said ratchet, said last-mentioned means being adapted to be moved by said second-mentioned means into position to retard reverse movement of said mechanism.

2,158,056
RING BINDER
Charles C. Cruzan, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application July 18, 1936, Serial No. 91,289
11 Claims. (Cl. 129—24)



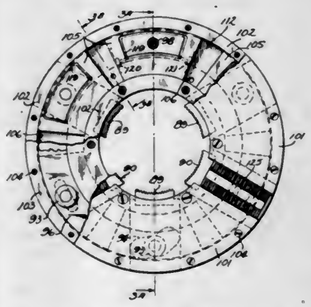
4. A ring binder, comprising pivotally supported cooperating binder ring constituting elements having opposed base portions notched in their opposing edges, an intermediate link having notched opposite edges entered in the notches of the base portions of the ring constituting elements and a rotatively mounted member having a crank portion engaged with said link.

2,158,057
RAIL FASTENING
Harold H. Febrey, South Orange, N. J., assignor to The Rails Company, New Haven, Conn., a corporation of Connecticut
Application March 4, 1937, Serial No. 128,941
7 Claims. (Cl. 238—349)



4. In combination, a tieplate, a rail thereon, and a rail fastening device comprising a spring member bearing upon the base of said rail and said tieplate, means adapted when positioned to tense said spring member and catch below said tieplate and thereby clamp said rail, and removable means to drive said first mentioned means into position, said removable means being independent of and in addition to said first mentioned means.

2,158,058
MACHINE TOOL CHUCK
Louis Edward Godfriaux, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application January 16, 1936, Serial No. 59,335
13 Claims. (Cl. 279—4)



5. In a chuck the combination of a substantially annular body portion, a plurality of clamp members relatively movable adjacent one end face of the body annulus, said body providing a substantially closed annular chamber substantially co-axial with said annulus, a piston device including an annular ring segment fitted within said chamber and movable in opposite directions therein, a motion transmitting connection from said segment for relative movement of said members, and a fluid supply channel connected to

apply pressure to the one end of said segment for movement thereof in one direction and terminating adjacent the other end of said annulus to receive fluid from a source exterior to said body.

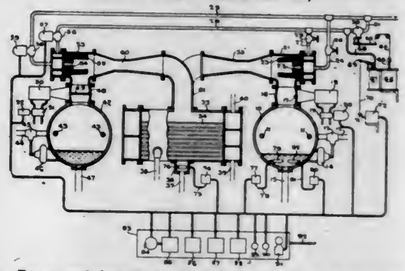
9. In a liquid operable piston device the combination of a piston, a cylinder member substantially enclosing said piston and providing pressure chambers respectively at opposite piston ends, a motion transmitting connection including an element positioned at an intermediate point between the ends of said piston and extending through a wall of said cylinder member, pressure channel means for the supply of liquid to said chambers, a leakage collecting groove associated with said piston, and interposed to receive liquid leaking from either of said chambers along said element, and a drain channel communicating with said groove, whereby to avoid leakage at the point where said element extends through said cylinder wall.

2,158,059

CONTROL SYSTEM FOR STEAM JET REFRIGERATING MECHANISM

John E. Haines, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application January 8, 1936, Serial No. 58,121
17 Claims. (Cl. 62—2)



1. In a refrigerating system having a source of steam, an evaporator, an ejector and a condenser, the combination of means responsive to a call for cooling for supplying steam at a high pressure to the ejector for a period of time for placing the refrigerating system in operation and then supplying steam at a reduced pressure to the ejector for maintaining the refrigerating system in operation, and means for regulating the supply of steam at the reduced pressure to maintain the pressure drop across the ejector constant.

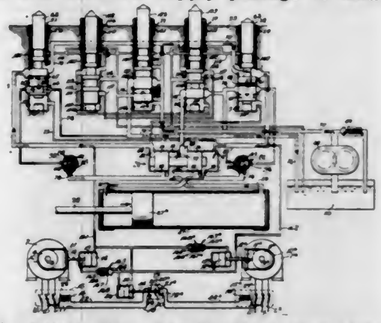
2,158,060

MACHINE TOOL AND HYDRAULIC OPERATING MECHANISM THEREFOR

Carroll R. Alden, Detroit, Mich., assignor to Ex-Cell-O Corporation, a corporation of Michigan

Application April 30, 1934, Serial No. 723,135
26 Claims. (Cl. 121—45)

1. An hydraulic operating mechanism for a reciprocable element of a machine tool comprising, in combination, a reversible hydraulic piston and cylinder motor for reciprocating said element, a reversible direction valve having a free moving piston, a source of fluid under pressure, two pressure passages adapted for connection to said source and leading respectively to said valve at opposite sides of said valve piston, two supply passages leading from said valve between said pressure fluid passages respectively to opposite ends of said motor, an exhaust passage leading from said valve between said supply passages, said valve piston in one end position serving to connect one of said supply passages to one of said pressure passages and the other of said supply passages to said exhaust passage, and in the other end position to connect said other supply passage to the other of said pressure passages and said one supply passage to said exhaust passage, two restricted passages branching respectively from said supply passages, and pilot valve means interposed in said pressure passages and also in said restricted passages and selectively operable to open either pressure passage to said source and connect the other pressure passage and associated restricted passage to said exhaust passage whereby to control said valve piston.

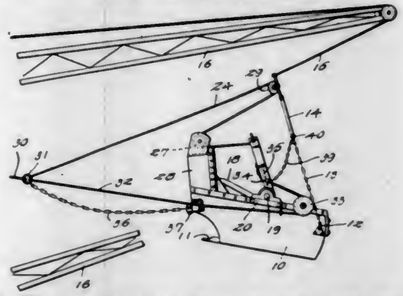


2,158,061

DRAGLINE BUCKET

Harold J. Atkins and Charles M. Conner, Chico, Calif.

Application June 14, 1937, Serial No. 148,206
2 Claims. (Cl. 37—136)



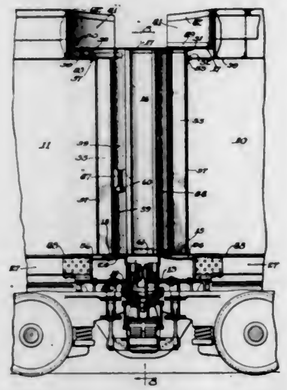
1. The combination with a drag line bucket having an open front end, of a hoe-like lid closing the front end of the bucket and having a shank pivotally connected to the bucket substantially midway between the front end and the rear end of the bucket, a lever extending upwardly from the shank for rocking the lid to open and to closed position, a drag line connected to the front of the bucket, a lifting cable connected to the rear of the bucket, a trip cable connected with the drag line and having a slip connection with the lifting cable, a bracket arm carried by and extending above the front end of the bucket, a direction changing sheave carried by the upper end of the bracket arm, a direction changing sheave carried by the bucket near the rear end thereof, said trip cable being trained over the first named sheave and terminally connected to the lever for rocking the lever to close the lid when the hoist cable is tensioned, a second cable connected to the drag line and trained over the sheave at the rear end of the bucket and terminally connected to the lever intermediate the ends thereof for rocking the lever to hold open the lid when the drag line is tensioned and the hoist cable is slacked, and a trip chain connected to the hoist cable and to said lever and adapted to be tensioned to pull open said lid when the drag line is slacked and the hoist cable is held tensioned to permit dumping of the bucket.

2,158,062

ARTICULATED CAR

Martin P. Blomberg, Hinsdale, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application November 25, 1935, Serial No. 51,383
4 Claims. (Cl. 105—4)



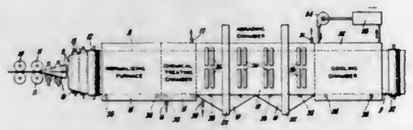
1. In an articulated car, a truck, car bodies with adjacent ends carried by the truck, and a passageway between the bodies comprising a cantilever structure, including a floor tread member, projecting beyond the car body from one of the adjacent ends into the other, the entire weight of the passageway being carried by the first mentioned car body.

2,158,063

METHOD OF CLEANING SHEET METAL AND THE LIKE

Ward Holt Broadfield, Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind., a corporation of Delaware

Application April 23, 1936, Serial No. 75,941
2 Claims. (Cl. 148—8)



1. The method of cleaning ferrous metal which has been raised to an elevated temperature from a previous operation, which comprises directing a stream of abrasive particles without atmospheric air on said metal while at said elevated temperature within a closed chamber while maintaining in said closed chamber a non-oxidizing atmosphere.

2,158,064

POLYAMIDES AND THEIR PRODUCTION

Wallace Hume Carothers, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 1, 1936, Serial No. 88,492
24 Claims. (Cl. 260—78)

1. A process for making polyamides which comprises reacting ingredients consisting substantially solely of amide-forming reactants one of which is selected from the class consisting of dicarboxylic acids and monomeric amide-forming derivatives of dibasic carboxylic acids, and the other of which is a diamine whose amino nitrogens each carries at least one hydrogen atom, at least one of said ingredients containing an atom of the oxygen family in the chain of atoms separating the reactive groups.

2,158,065

ART OF PRODUCING MAGNETIC MATERIALS

Guerney H. Cole and Robert L. Davidson, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

No Drawing. Application January 9, 1935, Serial No. 1,066
6 Claims. (Cl. 148—12)

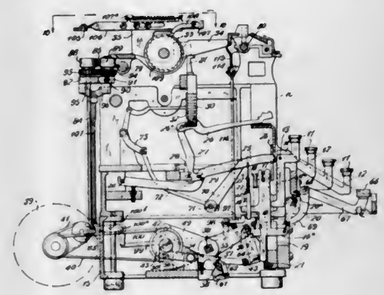
3. A process of producing high permeability silicon steel which comprises cold rolling hot rolled silicon steel starting pieces to produce therein a cold rolling reduction of substantially between 60 to 85%, while keeping the temperature of said pieces below approximately the boiling point of water, annealing said pieces and giving them a second cold rolling reduction, at similar low temperatures, of substantially between 40 to 65%, and finally heat treating said pieces.

2,158,066

TYPEWRITER

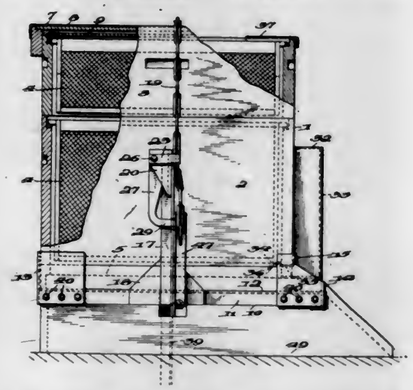
Kelley D. Evans, Hamilton, Ohio, assignor of one-half to C. E. Hooven, Hamilton, Ohio

Application September 20, 1937, Serial No. 164,729
7 Claims. (Cl. 197—17)



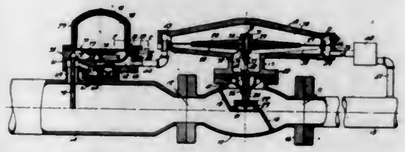
1. In a typewriter, a frame, a keyboard, type bars, power means for swinging the type bars to printing position including a normally stationary actuator, a normally disengaged clutch, members associated with the keys and connected with the type bars and adapted to be shifted to a position to be engaged by the actuator, and means operated by any of said members on the depression of the corresponding keys for tripping said clutch.

2,158,067
FASTENING DEVICE FOR BEEHIVES
Bernard L. Flanagan, Wellsville, N. Y., assignor to Flanagan Supply Company, a partnership composed of Clarence J. Flanagan, Huntington Park, Calif., and Bernard L. Flanagan, Wellsville, N. Y.
Application June 19, 1937, Serial No. 149,222
9 Claims. (Cl. 6—12)



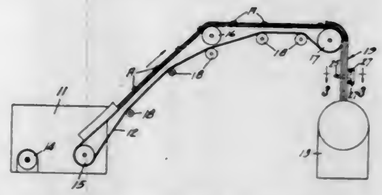
1. A beehive locking and anchoring device, said device including a supporting frame for the beehive by which it may be transported from one location to another, said frame having portions adapted to be respectively disposed on opposite sides of the beehive, means adapted to pass over the top of the beehive and to be secured to one of said portions for fastening the beehive to the frame, mechanism mounted on said last named portion of said frame for securing said means thereto, and a ground connected member with which said frame and beehive are adapted to be connected, said mechanism having a movable member provided with a portion cooperable with said ground connected member for removably connecting the beehive and frame to the ground connected member.

2,158,068
GAS REGULATOR
Marvin H. Grove, Berkeley, Calif., assignor, by mesne assignments, to Marvin H. Grove and Julia E. Grove, both of Berkeley, Calif.
Application April 16, 1932, Serial No. 605,667
Renewed July 5, 1938
15 Claims. (Cl. 50—12)



1. In a gas flow regulating device, a hollow body having an inflow opening adapted to be connected to a source of gas under pressure and having an outflow opening adapted to be connected to a point of gas demand, orifice means adapted to control flow of gas through said body, said orifice means including a stationary seat and a cooperating movable valve member, and actuating means associated with said valve member, said actuating means including a movable member separating a pair of opposed gas chambers, there being a gas passage communicating with one of said chambers and adapted to be vented to effect opening of the valve member, separate points of continuous communication between both of said chambers and the inflow side of the regulator, and an equalizing flow orifice communicating between said chambers.

2,158,069
CONTROL DEVICE FOR CAN MAKING MACHINERY
Victor T. Grover, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 24, 1936, Serial No. 117,655
1 Claim. (Cl. 198—37)



A feed control device for container parts comprising in combination: a runway, a photo-electric cell unit disposed adjacent the path of moving parts in said runway, said unit including a photo-electric cell disposed on one side of said runway and a plurality of light beams from spaced light sources disposed on the opposite side of said runway, said light beams projecting obliquely across said runway and converging onto said cell, the space between said light beams across said runway being greater than the width of a said container part, whereby normal feed of said parts in spaced relation along said runway through said light beams cannot temporarily intercept more than one light beam simultaneously thereby failing to darken said cell, abnormal accumulation of said container parts in the runway adjacent said units serving to simultaneously intercept all of said light beams to thereby temporarily darken said cell until the abnormal accumulation of parts is relieved, and electrical means responsive to the condition of said cell for terminating the feed of said parts when said cell is darkened under abnormal conditions, said electrical means being further operable to reestablish and permit the feed of said parts under normal conditions when one or more of said light beams are projected upon said cell.

2,158,070
VALVE
James Hansen, Flushing, N. Y., assignor of one-half to Gustav Drews, Brooklyn, N. Y.
Application October 14, 1937, Serial No. 168,883
7 Claims. (Cl. 221—60)



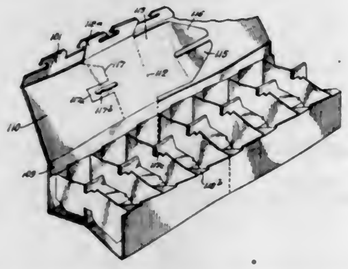
1. The combination of a body having an opening, an internally inwardly extending thread,

and an internal spiral valve seat substantially conforming to said thread, and a valve having a thread and a spiral face conforming to and cooperating with the thread and spiral seat of said body, the valve seat facing inwardly and the spiral face of said valve facing outwardly.

2,158,071
ESTER CONDENSATIONS
Virgil L. Hansley, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 25, 1936, Serial No. 87,257
8 Claims. (Cl. 260—593)

1. A process for preparing ester condensation products comprising reacting a saturated ester with a ketone in the presence of a metal hydride of a metal of the group consisting of alkali metals and alkali earth metals, said ketone having a carbon atom adjacent to the carbonyl group which carbon atom is essentially aliphatic in reaction and has attached thereto at least one hydrogen atom.

2,158,072
DIVISIBLE CARTON
W. Bartlett Jones, Chicago, Ill., assignor, by mesne assignments, to Consolidated Carton Inc., Chicago, Ill., a corporation of Illinois
Application November 6, 1936, Serial No. 109,416
17 Claims. (Cl. 229—29)



1. A transversely divisible egg carton of paper or the like having walls forming a cover, a bottom, and two longitudinal sides, said walls of the carton being weakened along a transverse division line for breaking the carton into first and second sections, means forming egg cells, a tongue secured in the second section extending from the bottom thereof into the first section across the line of division to lie between the bottom of said first section and any eggs therein, said tongue being foldable to lie over the divided end of the second section as a barrier for eggs therein, and means for holding said tongue in said folded position.

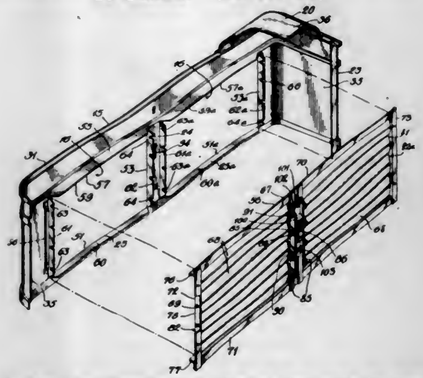
2,158,073
AMUSEMENT DEVICE
Wayland D. Keith, Wichita Falls, and Ronald W. Walker, Megargel, Tex.; said Walker assignor to said Keith
Application November 4, 1935, Serial No. 48,244
21 Claims. (Cl. 272—36)

5. In an amusement device of the character specified, supporting means mounted to turn about a vertical and a horizontal axis, a car pivotally mounted on said supporting means, a power unit carried by the supporting means for imparting an independent rotary movement to the



car, and a control on the car for the power unit and operable by a passenger.

2,158,074
AIR CIRCULATING DEVICE
Francis C. Kilb, Larchmont, N. Y.
Application May 9, 1936, Serial No. 78,821
13 Claims. (Cl. 98—94)

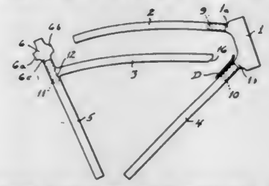


1. An air circulating device for use in room spaces, comprising walls defining a casing; one wall of said casing having an air opening therein; flanges extending inwardly of the casing from the edges defining said opening; a louver frame arranged within said casing adjacent said opening and behind said flanges so that the frame is concealed by the flanges; and louvers carried by said frame and extending across said opening for controlling the flow of air through said opening.

2,158,075
JOINING TUBULAR PARTS
Sigurd Loftfield, Euclid, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application September 20, 1937, Serial No. 164,651
3 Claims. (Cl. 29—176)

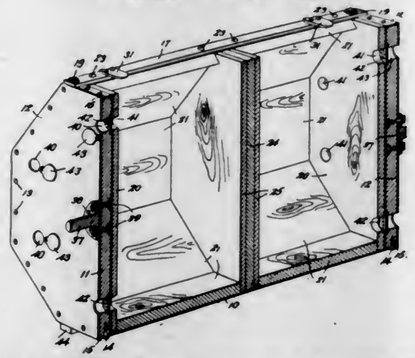
1. In making tubular cycle frames, the method comprising welding tubular members into a loop which is disunited at one region and maintained under bending stress by abutment of a diagonally faced portion of one of the members with a side wall of another of the members at such

region, and closing the loop by electrically welding the disunited surfaces, meanwhile bringing



the members adjacent said surfaces toward each other in a direction tending to relieve said stress in the loop.

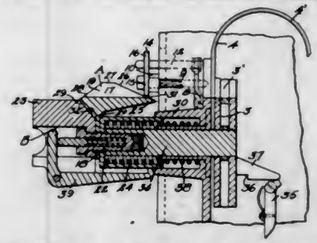
2,158,076
LINED TUMBLING BARREL
Joseph Lupo, Jr., Bronx, N. Y.
Application October 8, 1936, Serial No. 104,622
2 Claims. (Cl. 51—164)



1. A tumbling barrel comprising an open ended tubular sheet metal shell having angularly disposed contiguous portions, a head closing each of the opposite ends of the shell and including a wooden inner ply and a sheet metal outer ply permanently secured together with said inner ply fitted within the shell, securing means extending through the shell and anchored in said inner ply, a supporting trunnion projecting from each head having securing means extending through both plies thereof and a removable and replaceable wooden lining for said barrel composed of head sections fitted within the shell against the inner plies of the heads and longitudinal sections interposed between the removable head lining sections for retaining said sections in place, said longitudinal sections fitted against the angularly disposed portions of the shell and having abutting beveled longitudinal edges functioning to retain each other in place.

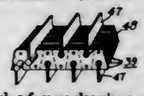
2,158,077
FRAMING LIGHT SHUTTER LIFTER
Nelson Floyde Matteson, Washington, D. C., and George Louis Bub and Roger Q. Moore, St. Louis, Mo.
Application November 27, 1937, Serial No. 176,812
8 Claims. (Cl. 88—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination with a projector of the type described having a fire shutter and a film gate provided thereon, a mechanism for actuating said film gate, linkage means for operating said fire shutter, a lever pivotably mounted on said projector for actuating said linkage means and means mounted on said mechanism for actuating said lever, said last mentioned means comprising a



cam including a portion for attachment to said mechanism and a portion at right angles thereto contacting with said lever.

2,158,078
FASTENER ELEMENT AND METHOD OF PRODUCING IT
Thomas G. Miller, McDonald, Pa.
Application June 1, 1934, Serial No. 728,555
Renewed November 10, 1938
30 Claims. (Cl. 29—148)



1. In a method of producing fastener elements from a piece of material, the steps of severing carrier receiving recesses from opposite sides of the piece at spaced locations therealong which correspond to the bases of a plurality of alternately reversed elements, and severing a plurality of alternately reversed elements from the piece.

2,158,079
SLIDE FASTENER AND METHOD OF MAKING IT
Thomas G. Miller, McDonald, Pa.
Application November 5, 1935, Serial No. 48,420
22 Claims. (Cl. 29—148)

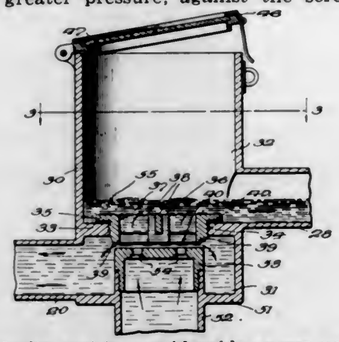


1. In a method of producing fastener elements from a longitudinal piece of material, the steps of severing a substantial portion of a transverse face of an element from the piece to form a body portion, and severing the remainder of the transverse face of the element with a different angle of severance to thereby form an interlock portion.

2,158,080
APPARATUS FOR AND METHOD OF SCREENING
William J. Montgomery, Hamilton, and Charles F. Boyers, Hillsboro, Ohio, assignors to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application January 30, 1936, Serial No. 61,620
8 Claims. (Cl. 210—167)

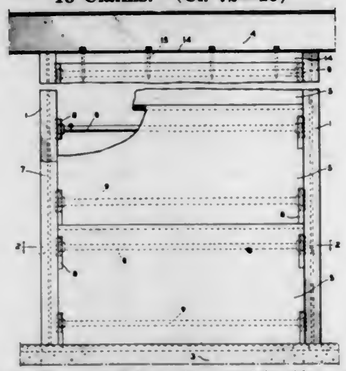
1. Method of using a fine mesh screen to separate fine solid particles in liquid suspension, from oversize particles which comprises maintaining the screen completely submerged between a body of screened liquid on one side thereof and a body of unscreened liquid at substantially

greater pressure on the other side thereof, projecting a submerged jet of unscreened liquid through the body of unscreened liquid which is at the greater pressure, against the screen at



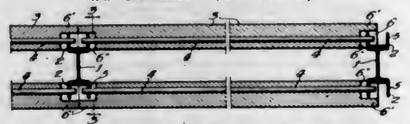
high velocity and in considerable excess over the amount which passes through the screen, and collecting the screened liquid containing the fine particles.

2,158,081
BUILDING CONSTRUCTION
Jacque C. Morrell, Oak Park, Ill.
Application December 11, 1936, Serial No. 115,302
18 Claims. (Cl. 72—16)



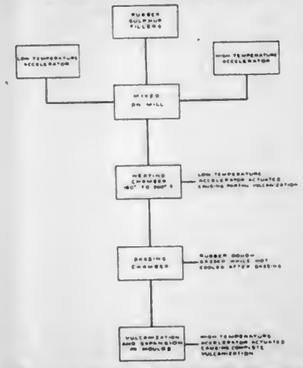
1. A wall comprising, in combination, spaced stud members, slabs of wall material extending between adjacent studs, auxiliary members embedded in the slabs at spaced intervals, said auxiliary members protruding only from edges of the slabs and being adapted to pass between the inner edges of adjacent studs, and means for attaching the protruding portions of said auxiliary members to the studs, whereby to maintain the slabs in position in the wall, one face of said slabs substantially completely covering said stud members.

2,158,082
BUILDING CONSTRUCTION
Jacque C. Morrell, Oak Park, Ill.
Application January 4, 1937, Serial No. 118,966
24 Claims. (Cl. 72—1)



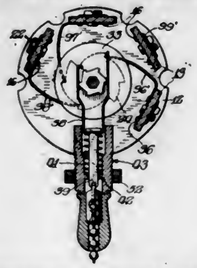
1. A wall comprising in combination spaced stud members, slabs of wall material disposed in pairs, the outer faces of which are disposed in substantially parallel planes and extending between adjacent studs and the inner faces of said slabs being adapted to pass between the edges of said studs, attaching means for the slabs, the said wall being further characterized in that the studs and attaching means are covered by a substantial thickness of the wall material.

2,158,083
PROCESS OF MANUFACTURING EXPANDED RUBBER
Frederick William Peel, London, England, assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
Application August 22, 1936, Serial No. 97,418
9 Claims. (Cl. 18—53)



1. In the process of manufacturing gas expanded rubber from rubber dough, the steps of incorporating a low temperature accelerator in the dough in such quantity as to produce partial vulcanization of the rubber upon heating, heating the dough to a temperature for rendering the low temperature accelerator fully active to partially vulcanize the dough, and subsequently gas impregnating the plastic dough with an inert gas.

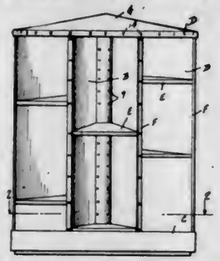
2,158,084
ELECTRIC SWITCH
Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana
Application November 25, 1935, Serial No. 51,466
14 Claims. (Cl. 200—64)



2. A combination terminal and stationary brush unit for an electric switch having a plurality of stacked contact discs, said unit comprising an insulating member, a plurality of terminal blocks stacked adjacent one another over the length of the member and slightly separated

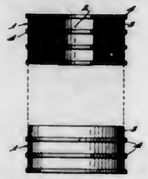
from one another, means for rigidly securing each block on said member, a stationary brush at one side of each block in electrical connection therewith and supported on said insulating member by the block securing means, insulating means on said insulating member intermediate each adjacent terminal block to separate the same, and unit securing means on a block at each end of the insulating member for rigidly securing the unit in said switch.

2,158,085
ADVERTISING DISPLAY CASE
Sarah P. C. Porter, Salt Lake City, Utah
Application June 25, 1935, Serial No. 28,265
1 Claim. (Cl. 211—144)



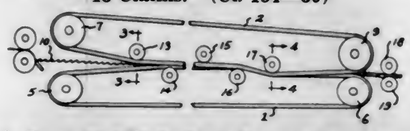
In an advertising and display stand, the combination of a cylindrical central body having vertical rows of openings therein; a base onto which said cylindrical body is rotatively mounted; bearings to support said cylindrical body on said base; a bottom circular in form removably secured to said cylindrical body; removable vertical standards secured between said top and bottom having holes therein; removable partitions secured in any desired vertical row of openings in said cylindrical base and to the holes in the vertical standards and radially situated between the body and the standards; a top secured to the vertical standards and removable adjustable shelves placed between any two vertical partitions with the rear of the shelves secured to the cylindrical body by the holes therein and with the front secured to the vertical standards, to allow the shelves to be set either horizontal or on a slant as desired.

2,158,086
METHOD OF MANUFACTURING CELLULAR RUBBER SHEETS
Dudley Roberts, New York, N. Y., and James S. Reid, Cleveland, Ohio, assignors to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
Application March 27, 1936, Serial No. 71,238
8 Claims. (Cl. 18—53)



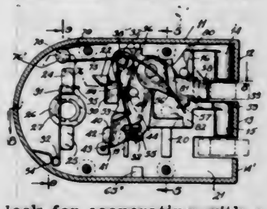
5. The method of manufacturing relatively large bodies of closed cell gas expanded rubber which comprises forming rubber into relatively small sections, gassing said small sections with an inert gas, assembling said gassed small sections together, and subjecting said assembled sections to heat to expand said assembled sections and vulcanize said assembled sections into a large body of closed cell gas expanded rubber.

2,158,087
APPARATUS FOR IMPARTING STRETCHABILITY TO WEBS
William Wallace Rowe, Cincinnati, and Warren A. Morris, Wyoming, Ohio, assignors to The Paper Service Company, Lockland, Ohio, a corporation of Ohio
Original application July 15, 1932, Serial No. 622,698. Divided and this application March 16, 1936, Serial No. 69,014
13 Claims. (Cl. 154—30)



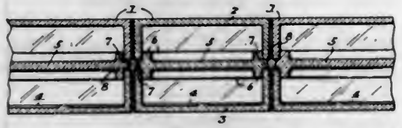
1. In corrugating apparatus, means presenting a corrugating surface characterized by longitudinally disposed ridges parallel in a portion of their length and converging in another portion of their length, means adapted to be disposed upon the opposite side of a web, means for causing said last mentioned means to depress a web between the ridges of said first mentioned means in the parallel portion thereof, and means for causing said depressed means to converge as they move with said web in the non-parallel portion of said first mentioned means.

2,158,088
JIMMYPROOF LOCK
Samuel Segal, Brooklyn, N. Y.
Application August 13, 1936, Serial No. 95,898
3 Claims. (Cl. 292—335)



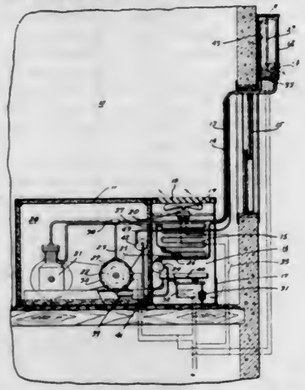
1. In a lock for cooperating with a keeper including spaced stud receiving members, said lock comprising a casing having a plurality of guards, a bolt movably guided within said casing and having studs disposed in at least a pair of said guards in an unlocked position of said bolt and adapted to be disposed in a removable interlocking relation with said members in a locked relation of said bolt, stop means, the combination with said stud receiving members, said guards, said bolt, and said stop means; a latch pivoted to said bolt, a toggle pivotally supported on said bolt and comprising pivotally connected arms, resilient means for spreading said arms to permit a portion thereof to be exposed between a pair of said spaced guards in an unlocked position of said bolt and to disengageably retain said latch against said stop means, said exposed portion adapted to strike one of said stud receiving members for actuating said toggle to disengage said latch from said stop means, and spring means for shifting said bolt to dispose said studs in a removable interlocked relation with said stud receiving members, said resilient means cooperating to shift said latch into engagement with said stop means pursuant to interlocking of said studs and members to preclude retraction of said bolt.

2,158,089
BUILDING BLOCK
Edwin E. Slick, Pittsburgh, Pa.
Application January 9, 1937, Serial No. 119,785
18 Claims. (Cl. 72—41)



1. In a substantially hollow building block of vitreous or other suitable fusible material, a pair of substantially cup-like portions having their adjacent edges in a substantially edge-to-edge relationship, portions independent of said edges extending from at least one of said cup-like portions and cooperating with the other of the pair of said cup-like portions for holding them in position with respect to each other, said pair of portions being molecularly adherent with respect to each other.

2,158,090
REFRIGERATING APPARATUS
Harry F. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application July 19, 1934, Serial No. 736,001
19 Claims. (Cl. 62—129)

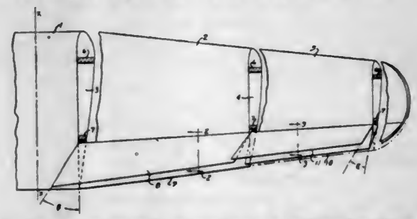


1. Air conditioning apparatus for an enclosure forming a room of a building comprising a refrigerant evaporator, means for thermally contacting air to be conditioned for said room with said evaporator, a refrigerant liquefying unit connected in refrigerant flow relationship with said evaporator, said liquefying unit including a refrigerant translating device located in said room and a refrigerant condenser located outside said building and condensing refrigerant from said translating device, means for dissipating heat from said translating device including means for bringing a portion of the refrigerant, while under high pressure, into heat exchange relation with said translating device whereby a portion is evaporated and discharged into said condenser, and means for controlling said liquefying unit in response to changes in the psychrometric condition of air within said room.

2,158,091
STABILIZED SALTS OF ACETYL SALICYLIC ACID
Joseph R. Stevens, Rahway, N. J., assignor to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application February 6, 1937, Serial No. 124,479
5 Claims. (Cl. 23—250)

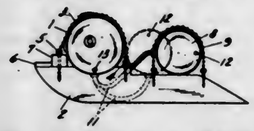
1. A stabilized substantially tasteless salt composition containing an alkaline earth salt of acetyl salicylic acid and one to two percent ammonium chloride, said composition being substantially anhydrous.

2,158,092
FLAP AND AILERON CONTROL SYSTEM
James G. Taylor, San Rafael, Calif.
Application December 7, 1936, Serial No. 114,648
3 Claims. (Cl. 244—42)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an aircraft structure, a wing having, in combination, controllable wing tip trailing edge ailerons, an aileron control torque tube system including hollow torque tubes, a hinged flap on the underside of each aileron, a hinged flap on the under side of the wing portion inboard of the ailerons, a motor within each aileron, a motor within the inboard portion of the wing, a linkage connection between each motor and the subjacent flap and operable upon actuation of the motor to move the flap about its hinge axis, a single source of energy, transmission lines connecting the source of energy with the several motors and between the connections being encased in the hollow torque tubes, and means for controlling the transmission of energy through the said transmission lines.

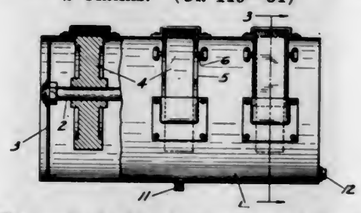
2,158,093
LIQUID MOLASSES STOCK FEEDER
Karl P. Teske, Davenport, Iowa
Application January 2, 1937, Serial No. 118,748
11 Claims. (Cl. 119—51)



1. A liquid molasses stock feeding drum of approximately cylindrical form having opposite approximately parallel ends, said drum having an eccentrically mounted shaft therein extending through the opposite ends, said drum having an opening through its approximately cylindrical wall in the part nearest to the shaft, a cap covering the lower end of the opening in the wall and secured in liquid-tight relation thereto, a cap covering the upper portion of the opening in the drum wall, and a wheel rotatably mounted on said shaft and having its periphery projecting

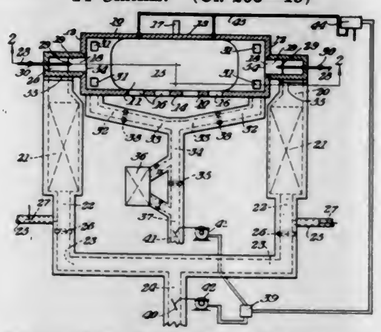
through said opening between said caps, the lower edge of the wheel beink adapted to dip into the molasses in the drum and adapted, when rotated forwardly, to bring the molasses up into feeding position.

2,158,094
METHOD OF FEEDING LIQUID MOLASSES
Karl P. Teske, Davenport, Iowa
Application March 25, 1938, Serial No. 198,091
2 Claims. (Cl. 119—51)



1. The method of feeding molasses to live stock which comprises applying molasses to the lower portion of the surface of a rotatable body and maintaining an upper portion of the surface accessible to said live stock.

2,158,095
REGENERATIVE FURNACE
Emil A. Vierow, Pittsburgh, Pa.
Application March 17, 1936, Serial No. 69,322
14 Claims. (Cl. 263—15)



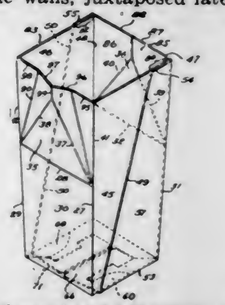
1. The method of controlling the pressure within a regenerative furnace which comprises discharging the products of combustion from the furnace chamber at a substantially predetermined rate through a regenerative unit by regulating the furnace discharge through an auxiliary outlet.

2,158,096
LUBRICANT
James H. Werntz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 24, 1936, Serial No. 76,201
15 Claims. (Cl. 87—9)

1. A high pressure lubricant comprising a lubricating oil or grease containing a small amount of an aliphatic acid-ester of a dibasic organic acid, the aliphatic radical containing at least 6 carbon atoms.

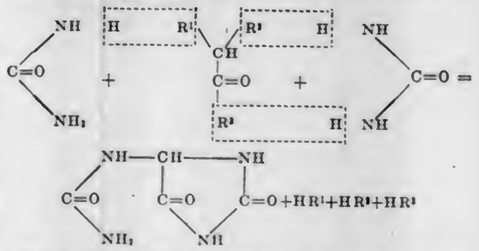
2,158,097
CONTAINER CONSTRUCTION
Oscar W. Wentz, Long Island City, N. Y.
Application December 19, 1936, Serial No. 116,782
16 Claims. (Cl. 229—17)

13. A paper container made of a single sheet and comprising a four-sided bottom, one side of which is extended to form an end wall, said end wall having lateral extensions to form portions respectively of two side walls, and the opposed side of which bottom is extended to form an opposed end wall, said opposed end wall having lateral extensions to form the remaining portions of said two side walls, juxtaposed lateral extensions being overlapped and adhesively secured together, each of the remaining sides of said bottom having a flap extension which, at its two ends, is connected to flap extensions of the two adjacent lateral extensions to form a composite flap that extends underneath and is adhesively secured to said bottom and the folding thereof being about one of the remaining sides of said bottom.



2,158,098
METHOD FOR SYNTHESIZING ALLANTOIN
Carl N. Zellner and Joseph R. Stevens, Rahway, N. J., assignors to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application February 6, 1937, Serial No. 124,526
12 Claims. (Cl. 260—309)

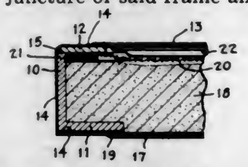
1. The process of synthesizing allantoin which comprises reacting urea with a compound selected from the group consisting of a disubstituted acetic acid and its functional derivatives according to the following equation:



wherein R^1 and R^2 are selected from the group consisting of halogen atoms, hydroxyl radicals, alkoxy radicals, aryloxy radicals, and aralkoxy radicals, and R^3 is selected from the group consisting of an halogen atom, hydroxyl radical, amine group, alkoxy radical, aryloxy radical and aralkoxy radical.

2,158,099
POWDER REFILL FOR COMPACTS
Roger Aitken, Manhasset, N. Y.
Application September 14, 1938, Serial No. 229,880
2 Claims. (Cl. 132—82)

1. A powder refill for a compact, said refill having in combination, a low flat box-like container for loose powder, a frame resting on the top of said container, a transparent sheet covering the opening in said frame, a sheet securing said frame to said container, a string positioned under said sheet at the juncture of said frame and the walls



of the container, a sieve adapted to rest on top of said powder, and a powder puff interposed between said sieve and said transparent sheet.

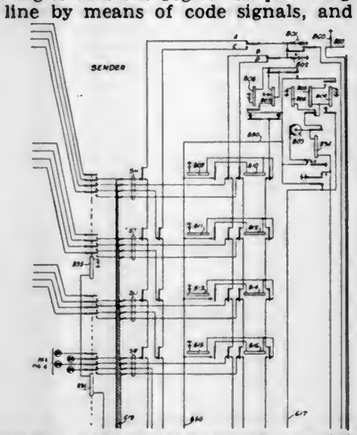
2,158,100
SHAFT COUPLING
Edward L. Barrett, La Grange, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application May 21, 1938, Serial No. 209,252
3 Claims. (Cl. 64—11)



1. A coupling for transmitting torque between two generally axially alined driving and driven members while permitting axial displacement therebetween as well as axial misalinement comprising, in combination, two arms adapted to be secured respectively to the driving and driven members in a position to project laterally outward from the axes thereof with the end portions of said arms spaced apart transversely of said axes and with the base portions of said arms spaced apart along said axes, said outer end portions of said arms presenting respective opposed bearing surfaces, a rigid link extending between said outer end portions of said arms and loosely engaging the same, and means for yieldably urging said outer end portions of said arms toward each other with said opposed bearing surfaces abutting against the opposite end portions of said loosely mounted link, said outer end portions of said arms being offset out of the planes of the base portions thereof to lie in a common plane intermediate the latter to effect a symmetrical swiveling motion of said link about its center upon displacement of the driving and driven members axially toward or away from each other.

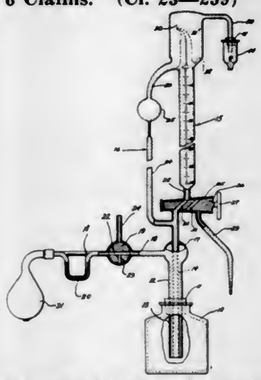
2,158,101
STOCK QUOTATION SYSTEM
John I. Bellamy, Brookfield, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application December 11, 1929, Serial No. 413,205. Divided and this application April 6, 1931, Serial No. 527,905. Renewed June 9, 1934
15 Claims. (Cl. 177—380)

7. In a stock quotation transmitter, means for registering a plurality of stock digits, means for registering a variable number of price digits, an outgoing transmission line, a sender including means for automatically sending the registered stock digits and the registered price digits over said line by means of code signals, and means



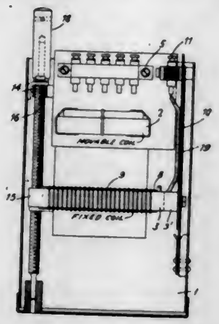
for causing said sender to insert a variable code signal between the stock digits and the price digits which is indicative of the number of price digits to be sent.

2,158,102
BURETTE
Max F. Betzold, Charles Rascher, and Charles A. Torp, Chicago, Ill., assignors to Rascher & Betzold, Inc., Chicago, Ill., a corporation of Illinois
Application February 18, 1936, Serial No. 64,478
6 Claims. (Cl. 23—259)



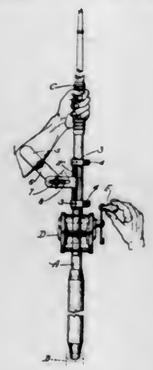
1. A burette comprising a valve casing, a valve rotatable therein, a graduated burette tube supported on said valve casing directly thereabove, and a pair of conduits on the opposite side of said casing spaced longitudinally thereof, one of said conduits being adapted to be connected with the source of liquid supply and the other comprising a discharge conduit, passages in said valve adapted to selectively connect said burette tube with either one or the other of said conduits, and an overflow conduit having continuous communication with the conduit through which liquid is supplied to said burette tube and with the upper end of said burette tube through an opening in the upper end of the latter, and independently of said valve, said overflow tube having an expansion chamber therein and a constriction of relatively small internal diameter below said expansion chamber.

2,158,103
COUPLING DEVICE
Konrad Beyerle, Kiel, Germany, assignor to Allgemeine Elektricitatz Gesellschaft, Berlin, Germany, a corporation of Germany
Application September 14, 1935, Serial No. 40,555
3 Claims. (Cl. 171—119)



1. A radio frequency coupling device comprising a metallic container having longitudinally extending side walls, a fixed coil having shielding means comprising a layer of insulation upon which is wound a layer of wire, said wire being electrically connected to a ground terminal of said device, said fixed coil located within and supported by a panel fixed on one of the side walls of said container, a pair of movable coils in inductive relationship with said fixed coil and mounted on separate sliding panels, a plurality of adjustable means located in different corners of said container, each adjustable means being coupled to a different one of said sliding panels for the purpose of moving each one of said movable coils to change its inductive relationship with said fixed coil.

2,158,104
ARM REST FOR FISHING POLES
Carroll T. Bowen, Miami, Fla.
Application January 23, 1937, Serial No. 121,958
8 Claims. (Cl. 43—25)



1. In combination with a fishing rod and a reel mounted thereon, an arm secured rigidly to the rod and extending laterally therefrom having an outwardly open yoke positioned to engage upper and under surface of the fore-arm of the hand which grasps the rod.

2,158,105
CAST IRON WELDING ROD
Charles O. Burgess, Niagara Falls, N. Y., assignor to Oxweld Acetylene Company, a corporation of West Virginia
No Drawing. Application May 27, 1937, Serial No. 145,043
6 Claims. (Cl. 219—8)

3. A cast iron welding rod containing 2.75% to 3.15% carbon; 2.25% to 3.5% silicon; 0.5% to 1% manganese; 0.05% to 0.5% vanadium; at least one metal of the group consisting of copper and nickel, the sum of the copper percentage and one-half of the nickel percentage being between 0.25% and 1.5%; the remainder iron.

2,158,106
CARCASS TREATMENT
Leon L. Cadwell, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application October 11, 1937, Serial No. 168,487
4 Claims. (Cl. 17—44)



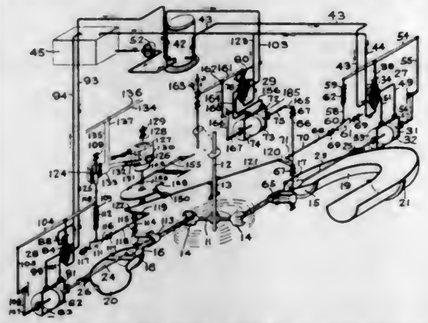
1. The method of treating animal carcasses which comprises securing the neck and foreshanks in a relatively retracted position.

2,158,107
ESTERS OF GLYCOL AND ACYLATED HYDROXY ACIDS
Thomas F. Carruthers, South Charleston, and Charles M. Blair, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application March 7, 1936, Serial No. 67,676
11 Claims. (Cl. 260—484)

1. As chemical compounds, esters of glycols of the group consisting of alkylene and polyalkylene glycols, in which both hydroxyl groups of the glycol are replaced by a radical of a hydroxy monocarboxylic acid acylated with a nonhydroxy monocarboxylic acid radical.

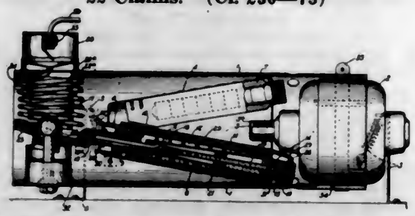
2,158,108
CONTROL SYSTEM
Henry Déglon, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Application May 21, 1937, Serial No. 143,885
5 Claims. (Cl. 137—144)

1. In a controlling mechanism, the combination of a controlling element, means for actuating said element, speed responsive means, a valve device, power means controlled by said valve device, and means actuated by said power means for controlling the operation of the actuating means of said controlling element and comprising a cam operatively connected with said speed



responsive means and normally disconnected from said actuating means and electrically actuated mechanism having a cam operated switch device operatively connected with said speed responsive means and having means for engaging said cam for operatively connecting the cam with said actuating means.

2,158,109
GYRATORY COMPRESSOR
Jay G. De Remer, Darien, and George W. Dunham, Westport, Conn., assignors to J. G. De Remer Research Corporation, a corporation of New Jersey
Application November 23, 1935, Serial No. 51,264
22 Claims. (Cl. 230—75)



1. Gyratory compressor apparatus comprising a liquid-piston compressor unit including a helical piston passage operating by virtue of its rotation about an axis inclined to the axis of the helix, a rotary carrier for said unit, a supporting base, a motor mounted on one end of the base directly coupled to said carrier, and flexing supply and delivery pipe connections for said unit fixed to the other end of said base.

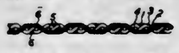
2,158,110
TREATMENT OF TEXTILE FABRICS AND THE PRODUCT THEREOF
Camille Dreyfus, New York, N. Y., and Herbert Platt, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 30, 1936, Serial No. 118,264
6 Claims. (Cl. 28—1)

1. A process for producing a desirable hand in fabrics containing yarns formed of a mixture of organic derivative of cellulose fibres and animal fibres, which comprises treating said fabric for a period of from 1 to 15 minutes with a modifying agent comprising an aqueous solution of a swelling agent, selected from the group consisting of methyl alcohol, ethyl alcohol and acetone, in a concentration of from 2 to 5% maintained at from 50 to 75° C., and removing excess modifying agent from the fabric while the fabric is under a pressure which is at the most insufficient to cause the yarns in the fabric to adhere one to the other or otherwise deform the fabric.

2,158,111
VINYL RESIN FINISHING SYSTEM
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application June 4, 1937, Serial No. 146,438
4 Claims. (Cl. 91—70)

1. A coated article comprising a metallic surface of iron, tin-plate or zinc having a strongly adherent composite film thereon, said film consisting of an outer finishing coat, composed essentially of a vinyl resin resulting from the conjoint polymerization of vinyl chloride with vinyl acetate, which is directly superimposed and in intimate contact with a priming coat, said latter coat being composed essentially of a polyvinyl partial acetal resin acetalized with an aliphatic aldehyde having from two to six carbon atoms and being adapted to provide an adherent protective covering for the metal surface to prevent deleterious contact thereof with said vinyl resin outer coat, both of said coats having been baked at a temperature of above 275° F.

2,158,112
PRODUCTION OF STIFFENED FABRICS
Donald Finlayson and Harry Crawshaw, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application August 20, 1936, Serial No. 96,910
In Great Britain August 31, 1935
9 Claims. (Cl. 139—420)

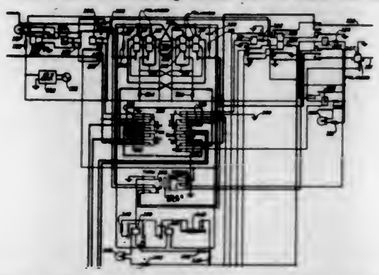


1. An intermediate fabric adapted for use in the uniting together of two other layers of fabric, said intermediate fabric comprising yarns of thermoplastic material and yarns of relatively non-thermoplastic material, the yarns of thermoplastic material each passing successively over a plurality of the non-thermoplastic yarns and under a plurality of the non-thermoplastic yarns, forming floats on both sides of the intermediate fabric.

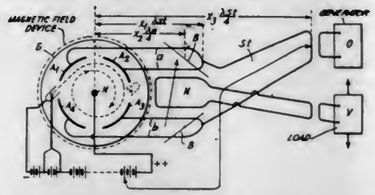
2,158,113
TELETYPEWRITER TRUNKING SYSTEM
Karl E. Fitch, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 1, 1936, Serial No. 93,806
6 Claims. (Cl. 178—2)

1. In a trunking system for interconnecting telegraph lines entering central office switching systems, teletypewriter subscribers' stations connected with different central offices of the manually operable type and automatic switching type, a trunking central office with which said different offices are connected, trunk circuits in said trunking office having a printer set associable therewith, and means in the trunks of said trunking

office including switching apparatus and pulsing apparatus for receiving calls from and interconnecting subscribers' stations entering said different offices.



2,158,114
ULTRA-HIGH FREQUENCY MULTIPLIER
Karl Fritz, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 16, 1937, Serial No. 174,773
In Germany November 21, 1936
4 Claims. (Cl. 250—36)



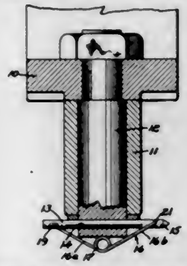
1. An oscillation generator and frequency multiplier comprising an electron discharge tube having a plurality of at least four segmented electrodes symmetrically disposed about an axis of revolution, means including a cathode exterior to the space enclosed by said segmented electrodes for projecting electrons through an opening therebetween to said enclosed space, means including a tuned circuit interconnecting different pairs of segmented electrodes for producing oscillations of a fundamental frequency, means including tuned circuits each interconnecting individual segmented electrodes of a pair for producing oscillations of a multiple frequency, a centrally disposed anode connected through a high direct current potential source to the cathode, and a utilization circuit mutually coupled to the means for producing multiple frequency oscillations.

2,158,115
AMBULATORY INSECTICIDE DISTRIBUTOR
Jack P. Fullilove, Shreveport, La.
Application January 24, 1938, Serial No. 186,744
11 Claims. (Cl. 299—29)



1. In combination, an ambulatory carriage; a drum rotatably mounted on said carriage, said drum having a corrugated portion between its ends providing alternating ridges and depressions, and having apertures between certain of said ridges; a mop surrounding said corrugated portion; fastening means encompassing the edges of the mop; and one or more further fastening means encompassing an intermediate portion of the mop.

2,158,116
RETAINING DEVICE
Charles E. Graham, Maricopa, Calif.
Application December 27, 1937, Serial No. 181,805
7 Claims. (Cl. 85—8.5)

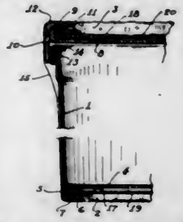


3. A retaining device including a cotter pin, adapted for entrance into an opening near the end of a member, and locking means connected with the cotter pin and having a portion adapted to be placed under tension by engagement with the end of said member for maintaining the cotter pin in said opening.

2,158,117
GELATIN TREATMENT
Donald P. Grettie, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 23, 1938, Serial No. 226,327
14 Claims. (Cl. 99—130)

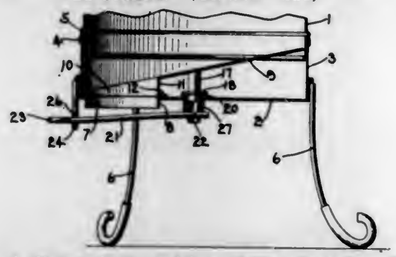
1. The method of treating gelatin which comprises deaminizing the gelatin.

2,158,118
CONTAINER
Carroll H. Gullion, Chicago, and Charles P. Evans, Wilmette, Ill., said Gullion assignor to Swift and Company, Chicago, Ill., a corporation of Illinois
Application November 30, 1936, Serial No. 113,506
5 Claims. (Cl. 229—87))



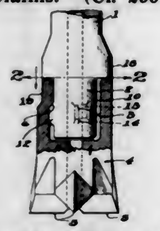
1. In a container including a body wall having a recessed end closure, an outer wrapper encasing the body wall provided with an end edge foldable over and against the recessed end closure and means pressable circumferentially of the inner wall of the recessed end closure for frictionally securing the folded end edge of the wrapper against the inner wall of the recessed end closure.

2,158,119
POPCORN DISPENSING DEVICE
Russell B. Hills and Herman E. Pleasant, Grand Rapids, Mich.; said Pleasant assignor to said Hills
Application November 30, 1938, Serial No. 243,168
14 Claims. (Cl. 221—144)



1. A dispensing machine of the class described comprising, a container, a bottom secured thereto having an opening therein, a disk within said container mounted angularly with respect to said bottom for rotative movement, an opening in said disk adapted to register with the opening in said bottom, and means for rotating said disk.

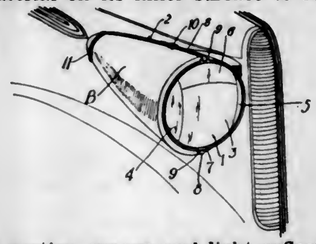
2,158,120
DETACHABLE DRILL BIT
Charles A. Hirschberg, Mountain Lakes, N. J.
Application February 19, 1936, Serial No. 64,788
2 Claims. (Cl. 255—63)



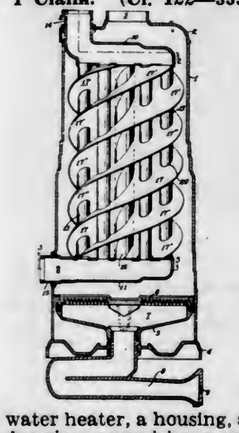
1. In a detachable drill bit, in combination, a drill bit for attachment to a shank having cutting edges on one end and provided with an axial socket extending inwardly from the other end, portions of said drill bit about said socket being pressed inwardly for a predetermined distance from the mouth of the socket to form an annular shoulder within the socket, certain spaced portions of the bit being left in their normal positions to form grooves extending longitudinally into the socket and interrupting said shoulder, a shank, a plurality of circumferentially spaced projections on said shank for engagement beneath said shoulder, one of said grooves being wider than the remaining grooves, one of said projections being wider than the other spaced projections, and a collar on said shank for engagement with the outer end of said bit to provide impact transmitting contact between the shank and bit.

2,158,121
AUXILIARY FOG LENS FOR AUTOMOBILES
Charles A. Hirschberg, Mountain Lakes, N. J.
Application February 5, 1937, Serial No. 124,212
1 Claim. (Cl. 240—48.4)

An auxiliary lens for automobile headlights comprising a concavo-convex lens of transparent material having its major surface extending diametrically of the lens in its normal vertical direction colored with the side portions of the lens on each side of the colored portion being clear, the upper transverse portion of the diametrical colored portion having a coating of light-reflecting material on its inner surface to render the coated portion opaque and light reflecting, said opaque portion being curved and presenting a concave surface towards a source of light rays to return the light rays in a direction towards the source of light.



2,158,122
HOT WATER HEATER
James Hileman, Swissvale, Pa.
Application August 20, 1936, Serial No. 97,002
1 Claim. (Cl. 122—333)

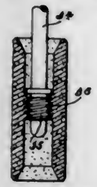


In a hot water heater, a housing, a nest of pipes within the housing comprising a relatively large central pipe and a plurality of smaller pipes in angularly spaced relation, the smaller pipes being disposed around the central pipe, manifolds connecting the top and bottom of said pipes and having connections to a source of water supply and to a point of use, a plurality of helically formed sheet metal fins formed integrally with said pipes and constituting flues for the products of combustion passing longitudinally of said pipes and a burner at one end of the pipes below the said fins.

2,158,123
LAPPING OR ABRADING TOOL
William E. Hoke, Baltimore, Md.
Application July 27, 1937, Serial No. 155,845
4 Claims. (Cl. 51—206)

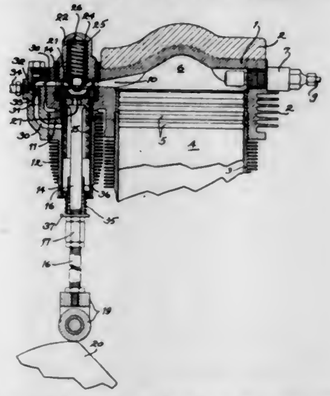
1. A lapping tool comprising, in combination, a supporting member adapted to be rotated and reciprocated during a finishing operation, a longitudinally and circumferentially homogeneous lap having a continuous cylindrical surface, whereby said lap varies uniformly in circumference with variations of temperature, and means in said lap

and on said supporting member to attach the same together to allow either end of said lap to be made



the leading end including interlocking means to prevent relative rotation between said lap and member.

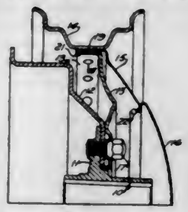
2,158,124
HEAVY FUEL ENGINE
Harlan Verne Honn, San Francisco, Calif.
Application May 4, 1937, Serial No. 140,662
8 Claims. (Cl. 123—143A)



1. In an internal combustion engine having a main combustion chamber containing a piston operating to produce a compression therein, an ignition device comprising an auxiliary combustion chamber, a venturi opening into said auxiliary combustion chamber, a fuel reservoir opening into the throat of said venturi, means for depositing fuel in said reservoir, means for cyclically supplying compressed air through said venturi to carry said fuel into said auxiliary chamber, means for compressing said fuel and air mixture to cause ignition thereof in said auxiliary combustion chamber by heat of compression, automatic means for releasing the ignited fuel into said main combustion chamber, and means for timing the deposition of fuel in said reservoir during the static portion of the air supply cycle.

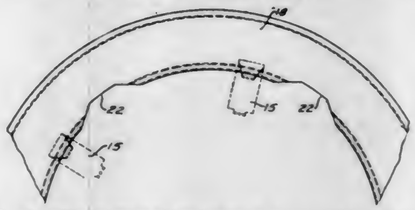
2,158,125
VEHICLE WHEEL
Harry J. Horn and Charles R. Stough, Lansing, Mich., assignors to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application July 25, 1935, Serial No. 33,087
4 Claims. (Cl. 301—37)

1. A vehicle wheel including, in combination, a wheel body having a plurality of spaced rim seat portions at its periphery, a rim mounted upon said seat portions, the wheel body being deformed intermediate said seat portions to form elongated narrow openings between said wheel body and said rim, and a cover plate having a plurality of substantially flat, axially extending integral projections extending from the periphery



thereof into said openings to secure the cover plate to the wheel.

2,158,126
WHEEL ORNAMENT
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application February 23, 1937, Serial No. 126,967
4 Claims. (Cl. 301—37)

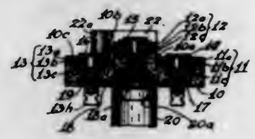


1. A vehicle wheel including, in combination, a wheel body, a plurality of resilient attaching clips each having one end rigidly attached to the wheel body and a main body portion arranged in adjacent relation to the wheel body, and an ornamental annulus encircling the attaching clips and being positioned between the attaching clips and the wheel body, the normal inner periphery of the annulus being of a diameter sufficiently less than the diameter of a circle passing through the radially outermost portions of the attaching clips to prevent the removal of the ornamental annulus from its position between the attaching clips and the wheel body but of greater diameter than the diameter of a circle passing through the radially innermost portions of said main body portions, the said inner periphery being provided with a plurality of relief zones corresponding in spacing and number to the attaching clips to provide for the free removal of the annulus from its position between the clips and the wheel body when the relief zones are aligned with the attaching clips.

2,158,127
THREE-SECTION CONDENSER OF THE TRIMMER TYPE
Frederick N. Jacob and Martin J. Kirk, Chicago, Ill., assignors to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application August 5, 1937, Serial No. 157,538
10 Claims. (Cl. 175—41.5)

1. In a condenser of the trimmer type, the combination of a mounting block of insulating material having in its upper surface two side recesses of rectangular conformation separated by a rectangular projection extending from front to rear of said block, condenser units mounted in said recesses and on said projection, each of said condenser units including insulated metallic plates

and an adjusting screw extending through said plates, and bushings carried by said block and having threaded engagement with said screws, the elevation of said projection above said recesses being sufficient to substantially eliminate coupling between the active portions of the middle and side condenser units, whereby capacitative effects between the several condenser units are of inappreciable amount, said block having a first verti-



cally extending bored enlargement at the front end of one of said recesses and a second and similar enlargement at the rear end of the other of said recesses, said bored enlargements being for mounting purposes and symmetrically disposed relatively to the center of said block, said recesses being offset from front to rear of the block and relatively to each other to accommodate said enlargements.

2,158,128
FENCE TOOL
William H. Koch, St. Paul, Minn.
Application January 21, 1938, Serial No. 186,126
3 Claims. (Cl. 140—123.5)



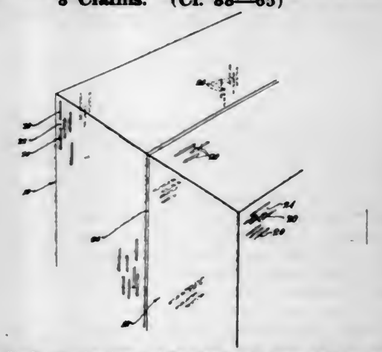
1. A wire splicing tool comprising a main lever bar having its front end adapted to be placed against the fence post, said lever bar having ratchet teeth along its lower edge, a forwardly projecting cam lever fulcrumed on the front end of said bar, a finger extending forwardly over said arm from a point above and at the rear of the fulcrumed support of said cam lever to form a wire clinching jaw portion, a horn adjustably slidable upon the main lever bar and projecting above the bar and a rearwardly projecting wire clinching jaw portion carried by the upper portion of said horn.

2,158,129
DISPLAY DEVICE EMPLOYING POLARIZED LIGHT
Edwin H. Land, Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application June 1, 1938, Serial No. 211,178
15 Claims. (Cl. 40—130)



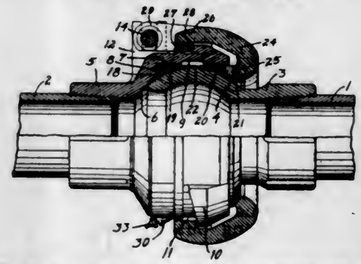
12. In combination, opaque supporting means having a reflecting surface, birefringent means affixed to said surface, and light-polarizing means affixed to the opposite surface of said birefringent means, all of said elements forming a unitary structure.

2,158,130
LIGHT POLARIZER
Edwin H. Land, Boston, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application July 16, 1938, Serial No. 219,541
8 Claims. (Cl. 88—65)



1. A light-polarizer adapted to resolve an incident beam of non-polarized light into two differently polarized components, one a specular component, the other a highly diffused component, comprising a plurality of sheet-like suspensions of needle-shaped, oriented, birefringent particles in light-transmitting media, the particles in one medium being oriented in a direction substantially at right angles to the direction of orientation of the particles in the other medium, one medium having an index of refraction substantially matching the upper index of refraction of said particles, the other medium having an index of refraction substantially matching the lower index of refraction of said particles.

2,158,131
SWIVEL PIPE COUPLING
Milton P. Laurent, Houston, Tex.
Application April 30, 1937, Serial No. 139,856
7 Claims. (Cl. 285—91)



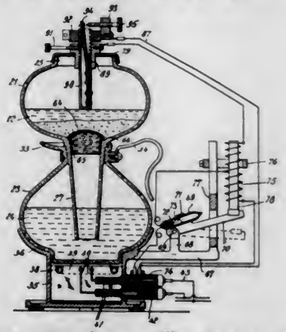
1. In a coupling for pipes, an internal ball member on one pipe and an external socket member on the other pipe and surrounding said ball member; a pair of rigid rings and a pair of distortable packing rings, all of an internal diameter less than the external diameter of said ball member, said packing rings being disposed between said rigid rings, and contacting said ball on opposite sides of a great circle, said rigid rings being softer than said ball member, and means to adjust said rigid rings toward each other and toward said ball member to compress said packing rings to seal said coupling and to move said rigid rings further toward each other and into contact with said ball for locking said coupling in adjusted position.

2,158,132
MAGNET BODY AND PROCESS OF MAKING THE SAME
Victor E. Legg, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Continuation of application Serial No. 685,656, August 18, 1933. This application February 17, 1938, Serial No. 190,943
5 Claims. (Cl. 175—21)



5. A temperature stablized magnetic body formed by mixing finely divided nickel-iron alloy having a positive permeability-temperature coefficient over a range of temperatures to be encountered in service, with approximately 0.5 per cent by weight of finely divided stabilizing material consisting of a plurality of alloys having different negative permeability-temperature coefficients over respectively different portions of said temperature range, each alloy containing molybdenum as a constituent, the number of alloys, the amount of molybdenum in each and the exact proportion of stabilizing material to magnetic material in the mixture being so chosen as to produce in the magnetic body a substantially continuous and uniform stabilization of permeability over said range of temperatures.

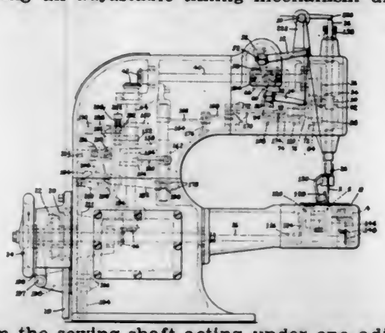
2,158,133
CONTROLLING DEVICE
Hermann Lemp, Glen Rock, N. J.
Application May 3, 1937, Serial No. 140,321
18 Claims. (Cl. 219—43)



1. In a vacuum type coffee maker, having a heating chamber and an infusion chamber with a transfer connection therebetween, an electrical heater for the heating chamber and means responsive to thermal conditions in the infusion chamber for cutting out the heater when the heated liquid is transferred to the infusion chamber.

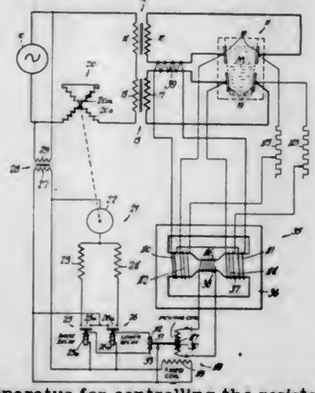
2,158,134
STOPPING MECHANISM FOR SEWING MACHINES
Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 16, 1935, Serial No. 50,171
11 Claims. (Cl. 112—219)

1. A sewing machine having, in combination, a work piercing needle and other cooperating stitch forming devices, a sewing shaft, driving means therefor, mechanical connections for actuating said devices from the sewing shaft including an element movable to disconnect the needle from the shaft, means for disconnecting the sewing shaft from its driving means, and means comprising an adjustable timing mechanism driven



from the sewing shaft acting under one adjustment to disconnect the needle in one of two positions and under another adjustment to disconnect the needle in the other of said positions.

2,158,135
ELECTRIC CONTROL SYSTEM
Raymond S. MacFarlane, South Chicago, Ill.
Application November 5, 1936, Serial No. 109,299
14 Claims. (Cl. 13—24)

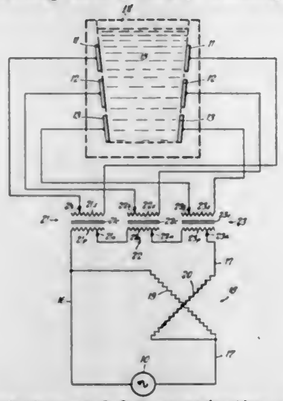


1. Apparatus for controlling the resistance of a mass of material heated by current flow from a plurality of pairs of electrodes comprising, in combination, means for individually energizing said pairs of electrodes, means for totalizing the current flow to said pairs of electrodes, means for totalizing the voltages applied to said pairs of electrodes, and means arranged and adapted to be responsive to the combined effect of said totalizing means for regulating the voltage applied to said pairs of electrodes.

2,158,136
ELECTRIC POWER SYSTEM
Raymond S. MacFarlane, South Chicago, Ill.
Application January 18, 1937, Serial No. 121,090
4 Claims. (Cl. 13—24)

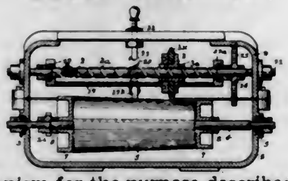
1. Apparatus for interconnecting an alternating current source and a plurality of pairs of electrodes arranged and adapted to receive therebetween a mass of material the electrical resistance of which decreases with increase in temperature comprising, in combination, a plurality of transformers each having a core individual

thereto and a secondary winding thereon connected across one of said pairs of electrodes, a primary winding on each core, and circuit means for connecting said primary windings in series



circuit relation and for energization to said alternating current source, whereby a predetermined division of current flow is effected between said pairs of electrodes and said mass of material is uniformly heated.

2,158,137
SPEED RATIO INDICATOR
Burke M. McConnell, Greensboro, N. C.
Application March 18, 1938, Serial No. 196,774
1 Claim. (Cl. 235—103.5)

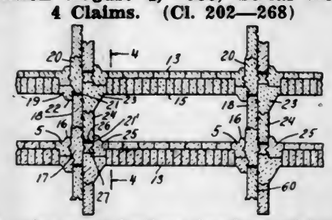


Mechanism for the purpose described including a support, a pair of independently rotative elements journaled therein with their axes substantially parallel, a rotary structure having a substantially conical periphery, another rotary structure comprising an axial member and a nut member revoluble on the axial member and having its periphery in contact with that of the cone structure and said members having a threaded engagement with each other, said structures having their axes substantially parallel with the axes of and being respectively geared with said elements and one being journaled in said support, and a carrier in which the other structure is journaled pivotally supported on the element with which the latter structure is geared, said carrier and latter structure being normally urged toward the other structure.

2,158,138
PROCESS OF MAKING RUBBER DERIVATIVES
John McGavack, Leonia, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 7, 1937, Serial No. 119,453
10 Claims. (Cl. 260—111)

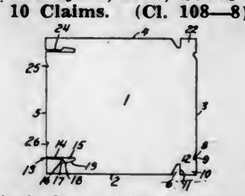
1. A process which comprises subjecting a homogeneous mix of rubber and a terpene to the action of a hydrogen halide.

2,158,139
REGENERATOR OF A COKE OVEN BATTERY
Charles V. McIntire, Short Hills, N. J., assignor to Semet-Solvay Engineering Corporation, New York, N. Y., a corporation of New York
Application August 4, 1936, Serial No. 94,146
4 Claims. (Cl. 202—268)



1. A coke oven battery having coking chambers, cross-wise extending walls defining regenerators below and in parallel relation to said coking chambers, and longitudinally extending partition walls dividing said regenerators widthwise of the battery into a plurality of compartments, each of said partition walls in each regenerator comprising two portions joined respectively at one end to contiguous cross-wise extending walls defining said regenerator, the other end of each portion being spaced from the other cross-wise extending wall of said regenerator to provide an expansion joint space, the said portions being in slidable contact with each other, each of said portions of said partition wall constituting a buttress extending from and strengthening one of said crosswise extending walls.

2,158,140
FLEXIBLE INTERLOCKING SHINGLE
Stuart P. Miller, Scarsdale, N. Y., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application July 21, 1936, Serial No. 91,717
10 Claims. (Cl. 108—8)

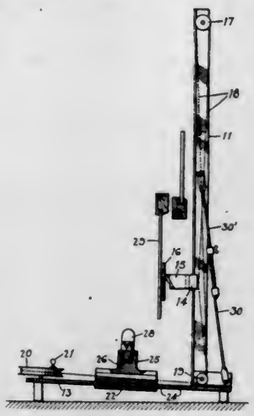


1. An interlocking shingle comprising a body portion having a locking tongue defined by openings extending inwardly from two adjacent edges of the shingle intermediate the ends thereof, and said body portion being provided with a locking opening having a shoulder and adapted to receive the locking tongue of a similar shingle with the shoulder engaging portions of the tongue to prevent relative linear movement of said shingles in all directions.

2,158,141
WINDOW CLEANER
Otto Moller, West New York, N. J.
Application September 22, 1936, Serial No. 101,901
1 Claim. (Cl. 15—251)

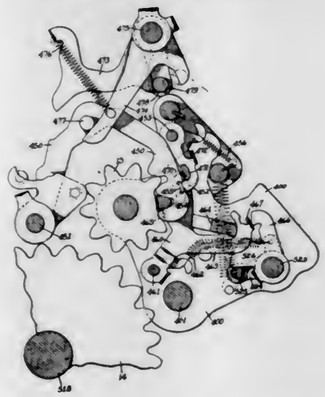
In a window cleaning device the combination with a frame having a horizontal base adapted to extend through a window opening into a room and having an upright portion for supporting the window cleaning tool and a pivot rod interconnecting said base and said upright portion; of a tool reciprocating mechanism comprising a pair of pulleys supported on said pivot rod, a

second pulley supported at the upper end of said upright frame portion, a rotatable disc on said



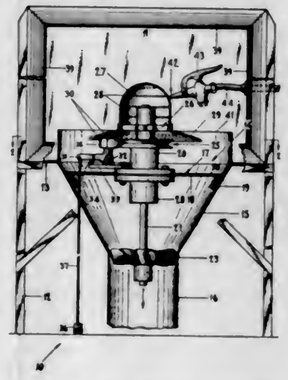
base and a belt about said disc and said pulleys having its ends connected to said window cleaning tool.

2,158,142
CALCULATING MACHINE
Robert L. Muller, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Original application February 5, 1936, Serial No. 62,393. Divided and this application December 5, 1936, Serial No. 114,418
1 Claim. (Cl. 235—137)



In a machine of the class described having actuators and a registering mechanism adapted to be connected together to perform addition or subtraction, a tens-transfer mechanism, actuating means for said tens-transfer mechanism adapted to occupy a "neutral", a "carry", or a "borrow" condition, means operating at the beginning of each machine cycle to restore portions of said tens-transfer mechanism operated during prior tens-transfers, means operating automatically as said registering mechanism and actuators are connected together to place said actuating means in a "netural" condition, and means operating automatically as said registering mechanism and actuators are connected to perform addition, to condition said actuating means to cause it to be operated during a machine cycle to place the tens-transfer mechanism in "carry" condition, and as said registering mechanism and actuators are connected for subtraction, to place said actuating means in condition to cause it to be operated during a machine cycle to place said tens-transfer mechanism in "borrow" condition.

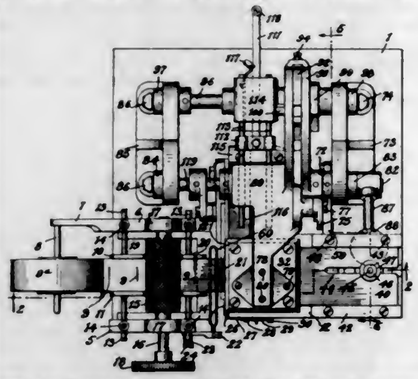
2,158,143
HAT DUSTING APPLIANCE
William Ollinger, Long Island, N. Y.
Application August 31, 1938, Serial No. 227,721
4 Claims. (Cl. 223—23)



1. A hat dusting appliance comprising a booth having an apertured bottom wall, a funnel mounted in said bottom wall and having a tubular suction member extending downwardly therefrom, a frame mounted in said funnel and having upper and lower bearings for supporting a shaft and fan rotor centrally of said tubular member, a hollow perforated crown and brim rotatably mounted at the upper end of said shaft and being adapted for supporting a hat body thereon, a pulley mounted on said shaft intermediate said crown and said upper bearing, said tubular suction member permitting sufficient suction to cause rotation of said fan rotor and said crown, braking means contacting said pulley, foot pedal operated means for releasing said braking means and permitting rotation of said crown, and means for applying a jet of compressed air against said crown, whereby said externally applied jet of compressed air coacts simultaneously with said internally applied air suction for removing dust from opposite sides of said hat body.

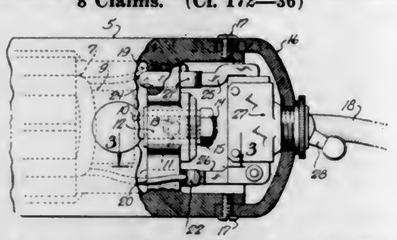
2,158,144
MACHINE FOR CUTTING, FOLDING, AND PRESSING LABELS
Louis Oskow, New York, N. Y., assignor to Master Machine Mfg. Co., Inc., New York, N. Y., a corporation of New York
Application July 30, 1938, Serial No. 222,086
16 Claims. (Cl. 270—86)

1. In a machine of the character described, means for supporting a rolled strip of labels, a support for labels to be cut and folded, means for feeding successive labels from the roll onto the support, means for cutting each label from the rolled strip as it reaches the support, means for inclining the cut edges of the label preliminarily to folding down said edges, means for simultaneously folding down the inclined cut edges of the label, means for pressing the folded-down



edges, and means for ejecting the cut and pressed label from the support.

2,158,145
MOTOR
John Oster, Racine, Wis., assignor to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application January 13, 1938, Serial No. 184,803
8 Claims. (Cl. 172—36)



6. In a device of the character described: a hollow body; an electric motor within the hollow body; terminals for the motor exposed at one end of the hollow body; a cap removably fitted to said end of the body to cover said motor terminals; an electric switch carried by the cap; terminals carried by the switch and having contact portions engaging with said motor terminals; and conductors permanently connected with the switch.

2,158,146
THERMOSTAT
Paul B. Parks, Oak Park, and Timothy J. Lehane, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application September 20, 1937, Serial No. 164,781
5 Claims. (Cl. 200—122)

1. A contact thermometer comprising a tube closed at both ends and formed with a lower reservoir portion and an upper stem portion, the reservoir comprising a bulb containing mercury from which bulb a small bore extends upwardly through the stem to house the mercury column, the bore directly above the bulb being so restricted that the mercury column therein will be of too small diameter to carry the electric control current but expanding at a higher level to a somewhat increased diameter so that the mercury column will be of sufficient cross-sectional area to carry the control current, and a pair of spaced apart electric contacts mounted in the

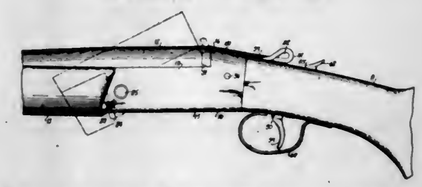


stem to engage the mercury column in the bore of increased diameter.

2,158,147
METHOD OF PRODUCING TEXTILE FABRICS
Herbert Platt, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application October 12, 1934, Serial No. 748,087. Renewed November 29, 1938
6 Claims. (Cl. 26—56)

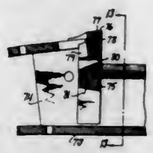
1. Process for imparting a desired width to a knitted textile fabric containing filaments of an organic derivative of cellulose, which width is permanent to all subsequent wet treatment, which comprises stretching the said knitted textile fabric while the same is subjected to the action of a hot aqueous fluid at a temperature and for a duration of time sufficient to soften the organic derivative of cellulose filaments of said fabric.

2,158,148
FIREARM
Edwin Pugsley, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Application February 7, 1935, Serial No. 5,421
Renewed January 9, 1939
20 Claims. (Cl. 42—40)



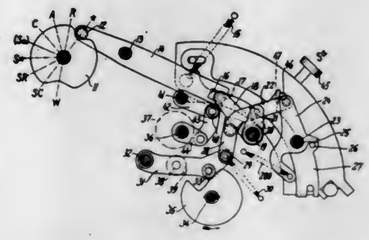
1. A composite firearm-frame comprising an interior frame-body and an exterior frame-shell, the said frame-body being located within the said frame-shell and rigidly secured thereto and forming a unitary structure therewith having a breech-abutting portion; and a fulcrum pin extending transversely through and supported by both the said frame-body and frame-shell in position to provide a fulcrum for a barrel-unit said frame body extending along and reinforcing said frame shell from said pin to the breech-abutting portion of the frame shell.

2,158,149
FIREARM
Edwin Pugsley, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Application October 17, 1935, Serial No. 45,396
5 Claims. (Cl. 42—40)



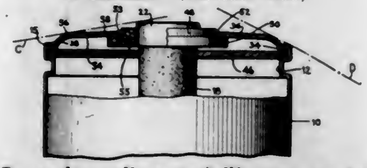
1. In a firearm in combination, a frame unit adapted to pivotally mount a barrel unit thereon for movement between breech-open and breech-closed positions, said frame unit including an integral frame-shell having a forward trough-shaped barrel-receiving portion, an intermediate breech-block receiving portion defined by integral continuations of said trough-shaped portion and a rearward, stock-attaching portion, said intermediate portion formed with a seat adapted to receive a breech-block, said seat having a shoulder interiorly of said frame-shell, a breech-block snugly seated in said seat and having side walls extending downwardly along the side walls of said intermediate portion and integrally united therewith by surface bonding over a substantial portion of the area of contact.

2,158,150
CASH REGISTER, ACCOUNTING, AND THE LIKE MACHINE
Franz Ranglack, Essen-on-the-Ruhr, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application October 14, 1935, Serial No. 44,835
In Germany November 27, 1934
5 Claims. (Cl. 101—66)



1. In a machine capable of receiving single item and multiple item transactions, the combination of transaction keys, a multiple item key, a check issuing means, a mutilated disk differentially set under control of the transaction keys, an interponent set into effective position under control of said disk when a check is to be issued by said check issuing means and into an ineffective position when no check is to be issued, means to operate the interponent to render the check issuing means effective, and means adjustable by the depression of the multiple item key to move the interponent into effective position when set into ineffective position under control of the mutilated disk and transaction keys, whereby a check is always issued upon entering a multiple item transaction.

2,158,151
DRY CELL
Otto K. Reinhardt, Jamaica, N. Y., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Original application May 12, 1932, Serial No. 610,791. Divided and this application December 23, 1936, Serial No. 117,281
3 Claims. (Cl. 136—133)



1. In a dry cell, a metallic cup, a cartridge therein having an upwardly projecting substantially centrally disposed electrode, a metallic cap over the end of the electrode, a bushing of insulating material formed with a central aperture receiving the metallic cap, said bushing comprising a main portion and a peripheral flange extending outwardly from the lower portion thereof, a metallic closure resting on the flange of the bushing and having a central opening of a diameter less than the initial diameter of the main portion of the bushing, said insulating material having inherent resiliency so that when said bushing is inserted in said closure aperture it is snugly received therein.

2,158,152
SLIP-COVER FASTENER
Daniel I. Reiter, New York, N. Y.
Application April 22, 1938, Serial No. 203,481
4 Claims. (Cl. 85—11)



2. A one-piece fastener of the character described for securing together the overlapping edge portions of a pair of sheets arranged to extend from the fastener in opposite directions, said fastener comprising a central anvil section provided with oppositely and laterally projecting elongated, imperforate and radially arranged prong-bending depressions in the respective faces thereof and in inward spaced relation to the periphery of the central section, and a pair of bendable sections smaller than and integrally joined to the central section in eccentric relation to each other and to the central section at opposite points and each provided with elongated peripheral prongs arranged to enter said depressions and to be bent thereby into a position in substantially parallel relation to the remainder of the central section when the bendable sections are bent toward the central section.

2,158,153
METHOD OF MAKING AN ARTICLE OF FOOTWEAR
Edward F. Roberts, Rye, N. Y., and Allen G. McKinnon, Montreal, Quebec, Canada, assignors, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 23, 1937, Serial No. 165,292
2 Claims. (Cl. 12—142)

2. The process of making an article of footwear having an elastic portion, which comprises providing a rubber bottom, providing an upper that is formed at least in part of a woven elastic fabric embodying in its construction rubber threads which are the product of a higher vulcanization temperature than normally used in a shoe vulcanizing operation and having the property of



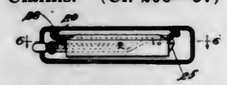
withstanding in the fabric without injury exposure to a normal shoe vulcanizing temperature, and then vulcanizing said rubber bottom and upper including said elastic fabric together to form the article of footwear but at a lower temperature than that at which the elastic threads were vulcanized.

2,158,154
CATALYST
James R. Rose, Edgeworth, Pa.
No Drawing. Application November 22, 1937, Serial No. 175,885
3 Claims. (Cl. 23—233)

1. A catalyst suitable for use in the conversion of crude-oil refinery gases containing saturates and unsaturates into hydrocarbon liquid polymers, said catalyst comprising a mixture of the following ingredients in substantially the following proportions by weight:

	Parts by weight
Natural phosphate rock	20 to 100
Carnotite ore	20 to 100
Zinc phosphate	5 to 20
Barium halide	3 to 12

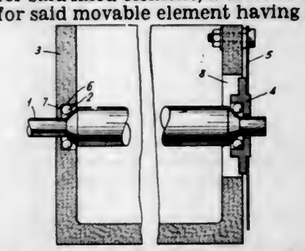
2,158,155
WATCH CONTAINER
Wilfrid J. Roy, Bloomfield, N. J., assignor to Gemex Company, a corporation of New Jersey
Application April 5, 1932, Serial No. 603,405
4 Claims. (Cl. 206—37)



4. In a mounting for a watch, in combination, a casing, means forming an opening in said casing, a watch movement hingedly mounted in said casing and adapted to swing through said opening, a cover for said opening hinged to said casing, spring means for moving said cover to an open position and for swinging said watch movement through said opening, a U-shaped member mounted on said casing having a catch thereon engaging said watch movement for retaining it within said casing, a second catch formed on said U-shaped member for engaging and retaining said cover in a closed position, and a single finger piece for moving said U-shaped member to successively release said catches.

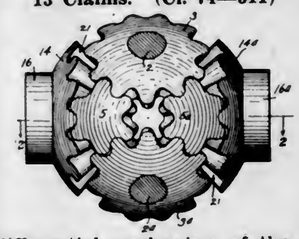
2,158,156
BALL BEARING AND BALLS OF CERAMIC MATERIAL
Heinrich Schröder, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application October 1, 1937, Serial No. 166,755
In Germany October 10, 1936
7 Claims. (Cl. 308—188)

1. In a ball bearing arrangement adapted for high frequency apparatus having fixed and movable elements, comprising a support of ceramic material for said fixed element, a shaft of ceramic material for said movable element having its ends



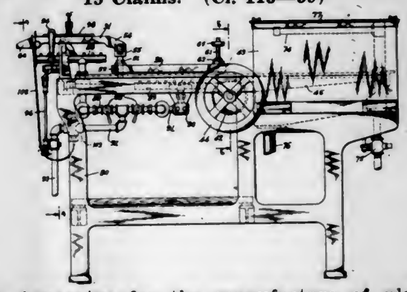
tapered, a plurality of ball bearings of ceramic material arranged on the tapered portion of said shaft and said support to provide an insulating bearing for said movable element.

2,158,157
DIFFERENTIAL MECHANISM
Ferdinand W. Seeck, Lebanon, Oreg.
Application May 3, 1938, Serial No. 205,728
13 Claims. (Cl. 74—311)



1. A differential mechanism of the character described including a housing, means for rotating said housing, a pair of axle gears in axial alinement rotatably mounted within said housing, pinion gears mounted on shafts extending radially inward within said housing, said shafts carried by said housing, said pinion gears positioned between said axle gears but not meshing with them, and bevel gears between each two pinion gears, each bevel gear meshing with two pinion gears and with one of said axle gears.

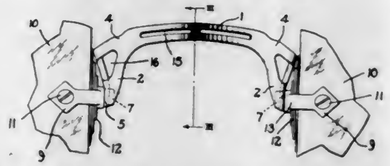
2,158,158
APPARATUS FOR THE MANUFACTURE OF PRINTING PLATES
Joseph Henry Shea, Baldwin, N. Y.
Application April 20, 1935, Serial No. 17,410
15 Claims. (Cl. 113—59)



1. Apparatus for the manufacture of plates from which impressions are made comprising a quenching tank, a track entering the tank, a carriage comprising upper and lower platens, means

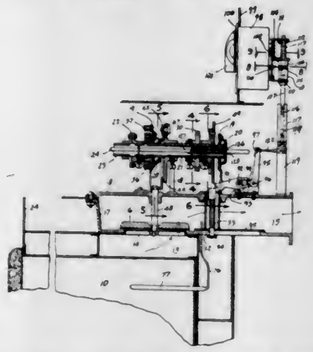
to permit separation of the platens for insertion and removal of work, means to heat said platens when in separated relation at loading position, said carriage being adapted to travel on the track from a loading position without the tank to a quenching position within the tank.

2,158,159
OPHTHALMIC MOUNTING
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 14, 1937, Serial No. 168,959
5 Claims. (Cl. 88—43)



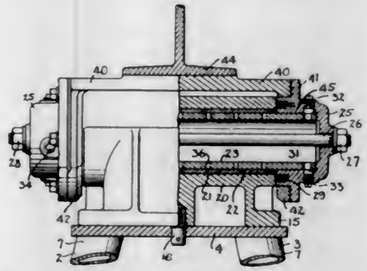
1. An ophthalmic mounting comprising a pair of lens holding members connected by a bridge member, said bridge member having a central arch portion and depending side portions secured adjacent their lower ends to said lens holding members, said depending side portions having a front face lying in a plane substantially parallel with the plane of the front face of the central arch portion and having integrally angled edge portions extending rearwardly of said main depending portions at substantially a right angle and extending substantially throughout the length thereof, and nose pad supporting means secured to said rearwardly extending angled portions and adjacent the point of attachment of the bridge member to the lens holding members with the ends of said nose pad supporting means lying within the angle and in the rear of the front face of said depending side portions.

2,158,160
OVEN CONTROL
Carl Thiem, Greentown, Ind., assignor to Globe American Corporation, Kokomo, Ind., a corporation
Application August 26, 1937, Serial No. 160,994
1 Claim. (Cl. 161—1)



In an oven control having means controlling the supply of heat to the oven, said means being normally biased in a direction to shut off said heat supply, and a latch normally retaining said means in heat supplying position, the combination of a clock mechanism having an alarm shaft rotatable in one direction by said clock mechanism at the end of a predetermined period of time, and manually rotatable in the opposite direction in the winding of said clock mechanism, a striker carried by said alarm shaft and rotatable thereby, a stem mounted for limited rotative movement about its axis, a member mounted on said stem and having limited rotative movement thereon, resilient means normally retaining said member at one limit of its rotative movement, whereby further movement thereof moves said stem, and connections between said stem and said latch by means of which said latch is tripped to permit said controlling means to shut off said heat supply when said shaft is rotated in the first direction, said member having a projection normally in the path of said striker and being moved thereby to trip said latch when said alarm shaft is moved in the first mentioned direction and being moved upon said stem against the action of said resilient means when engaged by said striker in its movement in the second direction.

2,158,161
CENTER IRON BEARING
Walter C. Trout, Lufkin, Tex., assignor to Lufkin Foundry & Machine Company, Lufkin, Tex., a corporation
Application April 20, 1934, Serial No. 721,526
3 Claims. (Cl. 308—103)



3. A center iron bearing for walking beams including a stationary support body, a bushing therein, a hollow bearing shaft disposed in said bushing and projecting beyond each end of said body and said bushing, a bearing frame straddling said body and to which the load is applied, said frame including bearing rings about the projecting ends of said shaft to transmit the load from said frame to said shaft, means to close the ends of said shaft to confine a body of lubricant therein, and additional means at the ends of said bushing to also confine such lubricant.

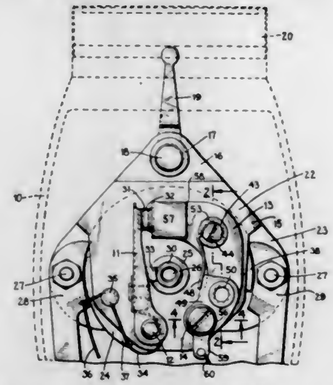
2,158,162
PRODUCTION OF STRONTIUM NITRATE
William De Garmo Turner, New York, N. Y., assignor to H. C. Bugbird Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 26, 1934, Serial No. 713,009. Renewed September 23, 1938
9 Claims. (Cl. 23—102)

5. A method of producing strontium nitrate from strontium sulfate comprising treating strontium sulfate with a solution of barium nitrate in the presence of not more than about 2% of an acid capable of forming soluble barium salts.

2,158,163
METHOD OF BLEACHING OILS AND FATS
Walter M. Urbain and Lloyd B. Jensen, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 24, 1936, Serial No. 117,564
5 Claims. (Cl. 260—423)

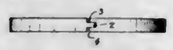
1. The method of treating oil which comprises adding thereto hydrogen peroxide and a nitrite.

2,158,164
CONTACT DEVICE
Russell Van Wynen, Westmount, Quebec, Canada, assignor to Schick Industries Limited, Nassau, Bahama Islands, a corporation of Bahama Islands
Application October 21, 1937, Serial No. 170,134
9 Claims. (Cl. 200—30)



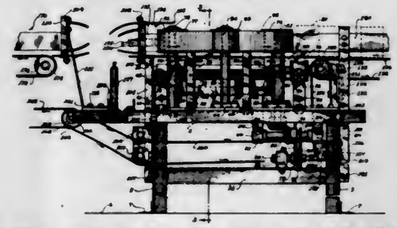
3. In combination, a contact device comprising a breaker arm pivotally mounted for actuation, a contact carried by said breaker arm, an adjustably positionable contact member, a contact carried by said contact member and arranged for cooperation with said first named contact, a base for supporting said breaker arm and contact member, a post for pivotally supporting said contact member, said supporting post being mounted on said base, a cam engaging said contact member and capable of changing the position of the contact member about its supporting post, means supporting said cam upon said base, and a spring carried by said contact member and having its free end in engagement with a portion extending from said cam, said spring serving to maintain the contact member against the cam.

2,158,165
PAPER CAN
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application May 29, 1936, Serial No. 82,433
1 Claim. (Cl. 229—5.7)



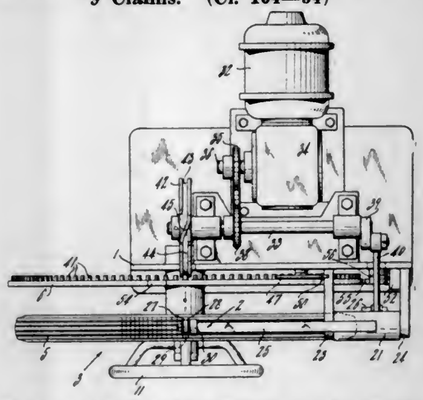
A ferrule for attaching an end closure to a container body comprising a band having an extension at each of its ends and intermediate the side edges thereof, said extensions being interfolded to form an interlocked seam, the portion of said band extended to one side of said extensions being flanged outwardly and the portion of said band extended to the opposite side of said extensions being flanged inwardly.

2,158,166
CONTAINER SEALING METHOD
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Original application December 13, 1935, Serial No. 54,181. Divided and this application October 27, 1937, Serial No. 171,282
2 Claims. (Cl. 91—68)



1. The method of coating the end and adjacent inner peripheral edge of a tubular container body which comprises continuously rotating the container body in a vertical plane above a moving film on a cylindrical surface having a horizontal axis, a portion of the end being continuously maintained in contact with the moving film in the vertical plane of the axis of the moving film in a manner positioning the corresponding portion of the inner peripheral edge against the direction of movement of the movable film.

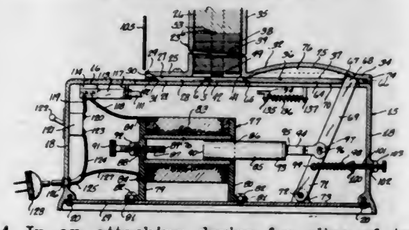
2,158,167
TIRE-SLITTING MACHINE
George F. Wikle, Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 11, 1937, Serial No. 179,342
9 Claims. (Cl. 164—34)



1. An apparatus for slitting treads of pneumatic tires comprising means for rotatably supporting a tire, driving means for intermittently imparting increments of rotary motion to the supporting means, a knife mounted for movement in an arcuate path transversely of a tire mounted on the tire supporting means, means for supporting the knife having a pivot lying within the trans-axial projection of the tire and sub-

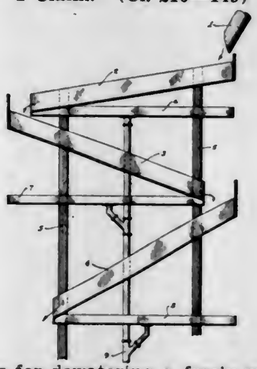
stantially tangentially to the area of engagement of the tire and the knife, and means for actuating the knife.

2,158,168
CLIP-ATTACHING DEVICE
George A. Woodruff, Kirkwood, Mo.
Application May 9, 1938, Serial No. 206,717
15 Claims. (Cl. 120—8)



4. In an attaching device for clips of types characterized by resilient arms, means for impelling a clip to a position to be attached, means for spreading the clip as it approaches a position of attachment, means for feeding the clips, one at a time, to a position of engagement by the impelling means, said feeding means being operable in timed relation to said clip impelling means.

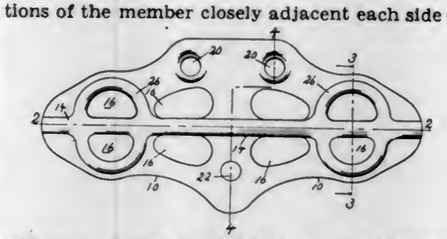
2,158,169
DEWATERING METHOD
David M. Wright, Agricola, Fla., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application November 23, 1936, Serial No. 112,407
1 Claim. (Cl. 210—149)



A process for dewatering a freely mobile mixture of water and a solid which during dewatering becomes increasingly less mobile which consists in passing the mixture solely under the influence of gravity, over a series of screens inclined in opposite directions and arranged one above the other with the inclination of the screens increasing from the first to the last of the series.

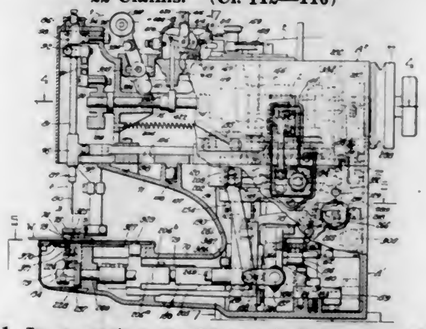
2,158,170
REAR FRAME MEMBER
Bert J. Anderson, Hammond, Ind.
Application March 8, 1937, Serial No. 129,535
7 Claims. (Cl. 280—291)

1. A rear frame member for velocipedes comprising a substantially flat stamped member having an axle receiving groove extending from one end to the other end of the stamping, and portions of the member closely adjacent each side of



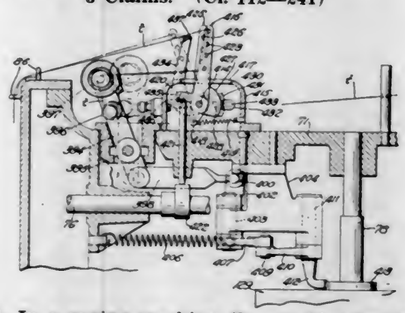
said groove being adapted to be crimped beneath an axle.

2,158,171
BUTTON SEWING MACHINE
Samuel W. Avis, Providence, R. I., assignor to The Reece Button Hole Machine Company, Boston, Mass., a corporation of Maine
Application December 24, 1936, Serial No. 117,550
In Great Britain February 24, 1936
22 Claims. (Cl. 112—110)



1. In a sewing machine, stitch-forming elements and operating mechanism therefor having a cycle of operation to cause said elements to form a group of superimposed stitches, said mechanism including a controlling element having a fixed range of movement during said cycle and said mechanism also having provision for varying the number of stitches in the group formed during said movement.

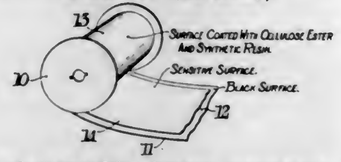
2,158,172
BUTTON SEWING MACHINE
Samuel W. Avis, Providence, R. I., assignor to The Reece Button Hole Machine Company, Boston, Mass., a corporation of Maine
Original application December 24, 1936, Serial No. 117,550. Divided and this application June 24, 1937, Serial No. 150,138
3 Claims. (Cl. 112—241)



1. In a sewing machine, the combination with

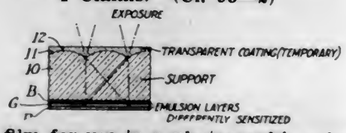
stitch-forming elements and operating mechanism therefor having a cycle of operation to cause said elements to form a group of stitches, of a tension device through which the thread passes from the source of supply to said stitch-forming elements, and means for moving said tension device in a direction to draw thread from the source of supply during said cycle and in a direction to release thread to the stitch-forming elements at the beginning of the next cycle.

2,158,173
PHOTOGRAPHIC FILM
Ernest L. Baxter, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 17, 1936, Serial No. 101,282
2 Claims. (Cl. 95—9)



1. A photographic element comprising a film having a light-sensitive layer on one surface thereof, and adjacent the opposite surface thereof a protective material comprising a paper support coated, on its surface opposite that which is in contact with the film, with a mixture of a cellulose mixed organic acid ester having a total acyl content of at least 42% and a polyvinyl ester resin in such proportions that when the ester and resin layer comes in contact with the light-sensitive layer, said last-mentioned layer is adequately protected against moisture, fog, and mottle.

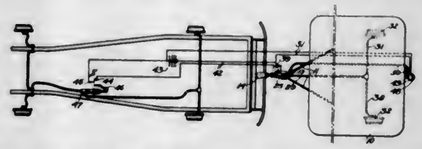
2,158,174
FILM FOR PHOTOGRAPHIC COLOR PROCESS
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application October 28, 1936, Serial No. 108,036. Divided and this application December 30, 1937, Serial No. 182,515
4 Claims. (Cl. 95—2)



1. A film for use in a photographic color picture process comprising a transparent support provided with lenticulations on one of its faces and on its other face with a plurality of emulsion layers individually sensitized to different primary colors, said lenticulations and said layers being co-extensive with the picture area of the support, and a plano-surfaced layer of a removable transparent material covering and co-extensive with said lenticulations.

2,158,175
BRAKE MECHANISM
James Coppola and Gerald R. Robinson, Lynn, Mass.
Application October 28, 1936, Serial No. 108,056
1 Claim. (Cl. 188—112)

In combination, a motor propelled pulling vehicle provided with a gear-shift member; a trailer vehicle; brake mechanism for said trailer vehicle; means coupling the forward end of said trailer vehicle to the rear end of said pulling vehicle with provision for relative fore and aft movement of said vehicles to a limited extent; means automatically operated by forward movement of the trailer vehicle relatively to the pulling vehicle for setting the brakes of said trailer vehicle; a normally inoperative device that is adjustable into an operative position where it

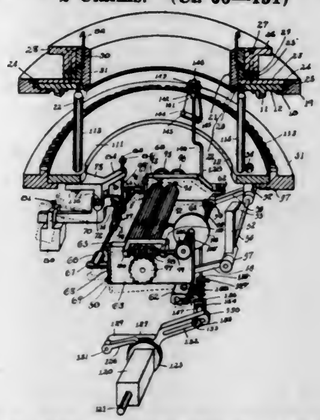


holds the said vehicles against relative movement toward each other; an electro-magnet for adjusting said device into its operative position, an electric circuit in which said device is arranged, and switch means controlled by the gear-shift member of said pulling vehicle for energizing said magnet thereby to render said device operative to hold said vehicles against brake-setting relative movement toward each other when said gear shift member is thrown into reverse drive position.

2,158,176
FORMING DIE FOR SHAPING TUBES
Haywood G. Dewey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 5, 1937, Serial No. 146,638
3 Claims. (Cl. 153—49)

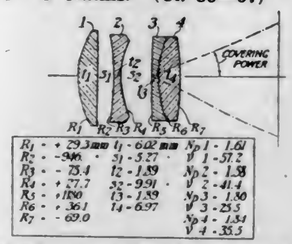
1. In a forming press for blanks of sheet stock, the combination with a die provided with a forming recess and a plurality of spaced guide recesses, a second die also provided with a forming recess and having a plurality of inclined projections adjoining and sloping toward said forming recess therein, a pair of supports each carrying one of said dies for movement toward each other, an auxiliary forming member shaped to fit into one of said forming recesses, and an operating means connected to said auxiliary forming member and operated in timed relation to the movement of said supports and for moving said auxiliary forming member to force part of said blank into the first die and partially forming said blank prior to the closure of said dies, of a guide member attached to said first die and for engaging the end of said blank continuously to prevent shifting or turning thereof while said auxiliary forming member is partially forming said blank and while the inclined projections of the second die are camming the edges of the blank into the forming recess thereof and are entering said guide recesses.

2,158,177
TAKE-UP MECHANISM FOR KNITTING MACHINES
Joseph A. Firsching, Utica, N. Y.
Application August 24, 1937, Serial No. 160,643
2 Claims. (Cl. 66—151)



2. In a take up mechanism for knitting machines, a rotary gear ring for carrying needles, whereby to knit a fabric, a ring plate connected to turn with said rotary gear ring by posts, a rock frame connected with said ring plate by means of rock bars, rollers carried in said rock frame for engaging the knitted fabric, means for controlling the rocking of said frame, gears connected with said rollers, a pulley connected with said gears, another pulley mounted on said rotary ring plate, a gear connected to turn with said last named pulley and mounted on said rotary ring plate, a stationary gear ring meshing with said last named gear, whereby to turn said gear and pulley, a belt connecting said pulleys, a roll for winding the fabric thereon and means connected with said last named gear ring for actuating said wind up roll intermittently.

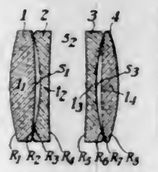
2,158,178
LENS SYSTEM
Charles W. Frederick and Willy Schade, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 22, 1937, Serial No. 144,201
5 Claims. (Cl. 88—57)



R_1 = + 29.3mm	l_1 - 6.02 mm	N_D 1 - 1.61
R_2 = -940.	s_1 - 5.27	V 1 - 57.2
R_3 = - 73.4	t_2 - 1.89	N_D 2 - 1.58
R_4 = + 27.7	s_2 - 9.91	V 2 - 41.4
R_5 = +1100	l_3 - 1.89	N_D 3 - 1.80
R_6 = + 36.1	l_4 - 6.97	V 3 - 25.5
R_7 = - 69.0		N_D 4 - 1.51
		V 4 - 33.5

1. A highly corrected photographic objective of high covering power and of the type having two collective components spaced axially on opposite sides of a biconcave element in which type the front collective component is single, has a front surface of which the radius of curvature is between ⅕ and ½ of the focal length of the objective and has a rear surface of which the radius of curvature has an absolute value greater than the focal length of the objective and in which type the rear collective component is compound consisting of a biconvex element cemented to a dispersive element, said objective being characterized by the collective components being made entirely of glasses whose index of refraction is in each case greater than 1.6 and said biconcave element having an index of refraction between 1.55 and 1.65, the algebraic sum of the Petzval powers of all individual surfaces being between .16 and .26 of the power of the objective and the cemented surface when convex to the front of the objective having a radius of curvature greater than one third of the focal length of the objective and when concave to the front of the objective having a radius of curvature whose absolute value is less than one fifth of the focal length of the objective.

2,158,179
PHOTOGRAPHIC OBJECTIVE
Charles W. Frederick and George H. Aklin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 22, 1937, Serial No. 144,202
2 Claims. (Cl. 88—57)

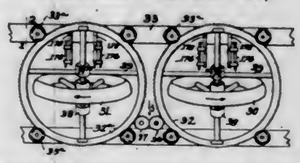


f- 100 mm Speed - f/2.0

LENS	GLASS	RADII	SPACINGS
1	N_D - 1.5007	R_1 - +95.7mm	t_1 - 11.9mm
	V - 42.5	R_2 - -177.8	s_1 - 1.54
2	N_D - 1.7616	R_3 - - 87.2	t_2 - 4.15
	V - 26.5	R_4 - +3460.0	s_2 - 1.73
3	N_D - 1.7616	R_5 - +193.0	t_3 - 4.15
	V - 26.5	R_6 - + 89.0	s_3 - 2.66
4	N_D - 1.5007	R_7 - +340.5	l_4 - 7.90
	V - 42.5	R_8 - - 73.5	

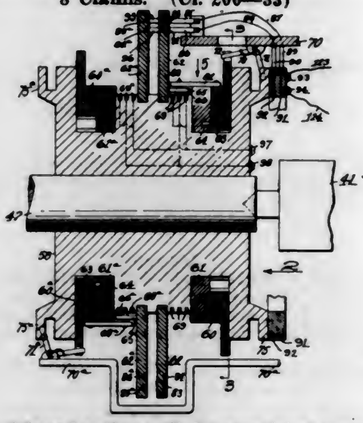
1. A corrected photographic objective comprising two spaced portions each consisting of a biconvex element axially spaced outside of a dispersive element, at least one of the portions having its dispersive element made of glass whose index of refraction is greater than 1.65 with surfaces having curvatures whose absolute values times the focal length of the objective add to less than 1.4, the algebraic difference of these curvatures times said focal length being less than 1.2 and having its collective element made of glass whose index of refraction is greater than 1.70 with surfaces having curvatures whose absolute values times said focal length add to less than 2.

2,158,180
GYROSCOPIC STEERING APPARATUS
Robert H. Goddard, Roswell, N. Mex.
Application November 9, 1936, Serial No. 109,964
5 Claims. (Cl. 244—79)



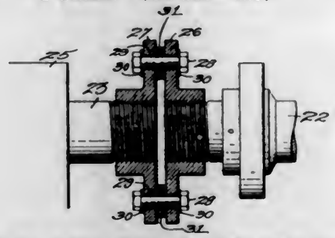
3. Apparatus for correcting the flight of an aircraft in space which comprises a pair of associated gyroscopes mounted for precessional movement in supports which are separately rotatable in bearing structure fixed in said craft, means to rotate said gyroscopes in opposite directions and at equal speeds, a pilot gyroscope, and devices controlled thereby which include means to effect an initial precessional displacement of said steering gyroscopes equally but in opposite directions to neutralize a displacing force and to provide a flight-correcting force and means to reverse the precession of the steering gyroscopes when a part only of the required correction of flight has been accomplished.

2,158,181
DELAYED ACTION REVERSING SWITCH
Robert H. Goddard, Roswell, N. Mex.
Original application November 9, 1936, Serial No. 109,964. Divided and this application July 10, 1937, Serial No. 153,009
8 Claims. (Cl. 200—33)



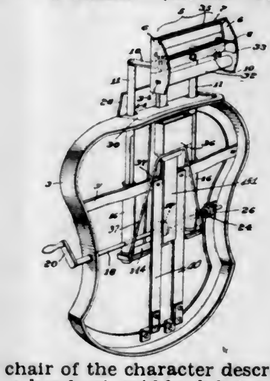
1. A delayed action switch comprising a contact device, a first member effective to shift said device in one direction when rotated in a given direction, a second member effective to shift said device in the opposite direction when rotated in the reverse direction, and means to rotate said members in the same direction and to move one member twice as fast as the other, whereby a delayed reverse shift of said device occurs after reversal of rotation of said members.

2,158,182
HEAT INSULATING COUPLING
Robert H. Goddard, Roswell, N. Mex.
Original application August 31, 1934, Serial No. 742,251, now Patent No. 2,127,865, dated August 23, 1938. Divided and this application December 20, 1937, Serial No. 180,783
1 Claim. (Cl. 287—129)



A heat-insulating driving coupling for connecting adjacent co-axial rotating members comprising a disc mounted on the end of one rotating member, a second disc mounted on the adjacent end of the second rotating member but spaced from said first member, clamping bolts connecting said discs, and heat-insulating means for said bolts and discs comprising sleeves for said bolts in said discs, spacing collars between said discs and concentric with said bolts and sleeves, and washers between the ends of said bolts and said discs, said sleeves, collars and washers all being of heat-insulating material and each sleeve extending through both discs and through an interposed collar.

2,158,183
BARBER'S CHAIR
Abraham T. Hascham, Dedham, Mass.
Application August 4, 1938, Serial No. 223,053
3 Claims. (Cl. 155—177)



2. A chair of the character described including a back, a headrest, said back being provided with a recess to receive said headrest, a slidable supporting structure in said back carrying said headrest, an operating mechanism for said headrest operable to raise the headrest out of said recess and return it into the recess, comprising means mounted on said back cooperating with means on said supporting structure for automatically moving the headrest forward into its operative position after it has been raised out of the recess and subsequently returning it to a position in line with said recess, and means for operating said mechanism.

2,158,184
TONING AND INTENSIFYING SOLUTIONS
Kenneth C. D. Hickman and John C. Hecker, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application April 27, 1934, Serial No. 722,730. Renewed March 12, 1938
5 Claims. (Cl. 95—88)

1. The process of toning and intensifying a developed silver image in a photographic film which comprises treating said image with an aqueous single solution toning and intensifying bath containing as its essential toning and intensifying constituent a quinone thiosulfuric acid selected from the group consisting of quinone monothiosulfuric acid, quinone dithiosulfuric acid and quinone tetrathiosulfuric acid.

2,158,185
TONING AND INTENSIFYING SOLUTIONS
Kenneth C. D. Hickman and John C. Hecker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 9, 1938, Serial No. 194,899
5 Claims. (Cl. 95—88)

1. The process of toning and intensifying a developed silver image in a photographic film which comprises treating said image with an

aqueous single solution toning and intensifying bath containing as its essential toning and intensifying constituent a substituted quinone thiosulfuric acid.

2,158,186

TONING AND INTENSIFYING SOLUTIONS

Kenneth C. D. Hickman and John C. Hecker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 9, 1938, Serial No. 194,900
6 Claims. (Cl. 95—88)

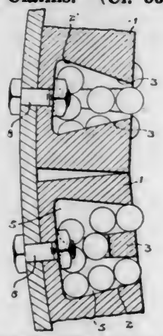
1. The process of toning and intensifying a developed silver image in a photographic film which comprises treating said image with an aqueous single solution toning and intensifying bath containing as its essential toning and intensifying constituent a hydroquinone thiosulfuric acid.

2,158,187

LINER FOR BALL MILLS

Edward M. Houghton, Cobalt, Ontario, Canada, assignor to M. J. O'Brien, Limited, Cobalt, Ontario, Canada

Application March 27, 1937, Serial No. 133,317
5 Claims. (Cl. 83—9)



1. A liner for ball mills comprising metal blocks each having a cavity therein, the inside walls of which converge to an opening, and ribs extending radially inward from said converging wall and flaring inwardly, subdividing the interior of said cavity into a plurality of cavities each converging to an individual opening, the inward edges of said ribs being spaced to form a central opening.

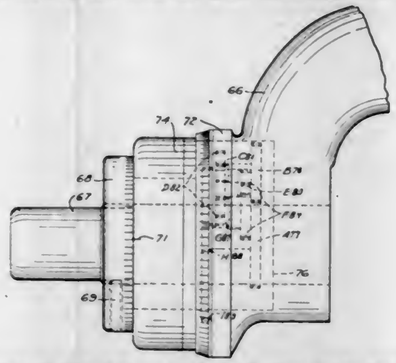
2,158,188

INDEXING MECHANISM

Harry B. Kyriakides, Iowa City, Iowa

Application May 4, 1936, Serial No. 77,773
2 Claims. (Cl. 90—56)

1. In an indexing mechanism, a goose-neck standard having a recess therein for the reception of gearing, a shaft passing through the goose-neck, an indicating ring mounted on the shaft the goose-neck standard having a mark thereon adjacent the first named ring a gear on the shaft and secured thereto and located within the recess in the goose-neck head a counter shaft on which are mounted a gear meshing with the first named gear and a pinion a second countershaft having a gear and a second pinion said gear meshing with the first named pinion a third countershaft having a gear and a third pinion said gear meshing with the second pinion a fourth countershaft having two pinions one meshing with the third pinion, and a ring rotatably mounted on the outer side of the goose-neck standard and having an internal gear meshing with the



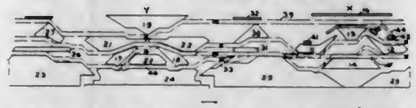
pinion of the last named shaft, the outer face of the ring being beveled and provided with indicia on the beveled portion of the ring.

2,158,189

KNITTED FABRIC, METHOD, AND MACHINE

Robert H. Lawson and Wilfred Armitage, Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application May 21, 1937, Serial No. 144,007
8 Claims. (Cl. 66—43)



1. A method of knitting a suture including the steps of feeding separate yarns at two feeding stations and controlling needles to knit at one feeding station at some of the courses and at the other feeding station at other courses by picking jacks associated with the needles to and from an active relationship with their respective needles.

2,158,190

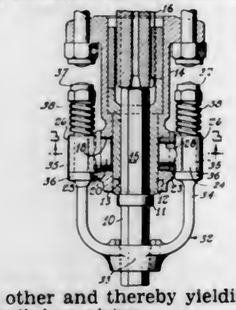
TOOL RETAINER

Earl B. Lear, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application April 3, 1937, Serial No. 134,716
2 Claims. (Cl. 279—19.1)

1. A rock drill comprising a front head and a collared drill steel supported therein, a retainer having a yoke portion adapted to underlie the collar and having resilient arms extending upwardly therefrom along the sides of the front head, said front head having a pair of diametrically opposed transverse bores extending inwardly from opposite sides of the front head, each arm of the retainer being carried by a trunnion, each trunnion having a head to receive the associated retainer arm and having a pivot portion which is integral with the head and which projects into the associated bore in the front head, and means for resisting pivotal movement of the trunnions and retainer about the trunnion axis, said means comprising a groove or depression formed on the inner face of one of the trunnion heads and extending outwardly from the pivot portion, and a complementary rib affixed to and projecting outwardly from the front head and positioned to

register with said groove, said resilient retainer arms being arranged to urge said trunnions to-



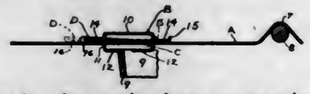
ward each other and thereby yieldingly hold the groove and rib in registry.

2,158,191

DEVICE FOR SHARPENING LAWN MOWERS

Robert L'Wolfe, Seattle, Wash.

Application May 29, 1937, Serial No. 145,482
1 Claim. (Cl. 76—82.1)



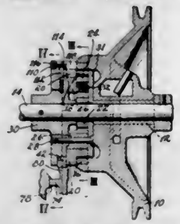
A device for sharpening lawn mowers including a file receiving clamp of substantially rectangular form having a bottom wall formed to permit guiding cooperation of the clamp with a lawn mower blade, the side walls being formed with opposed openings, a guide bar passed loosely thru said openings and having guiding cooperation with a part of the lawn mower, and a flat resilient wedging member of uniform thickness thruout its length formed with a downturned edge and an upturned edge, said member being passed thru the openings in said clamp member and having a length materially greater than the width of the clamp, the downturned end of the wedging member bearing on the guide bar and acting on movement of the wedging member in one direction to create an increasing wedging function between the guide bar and the upper edge of one of the openings of the clamp, whereby to cause the guide bar to secure a file in the clamp, the turned ends of the wedging member preventing passage of the wedging member thru the openings of the clamp in either direction.

2,158,192

CLUTCH MECHANISM

Vernon H. Meyer, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application October 1, 1936, Serial No. 103,548
8 Claims. (Cl. 192—27)



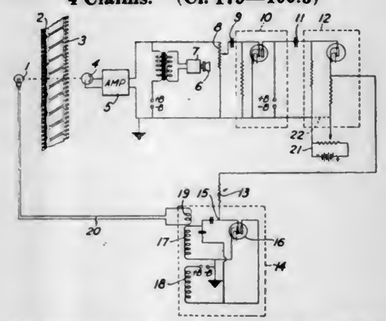
1. A roller clutch having, in combination, a shaft, a driving member, a driven member, a floating member in spaced relation to and substantially coaxial with the shaft, peripheral roller-engaging faces spaced 120° apart on said floating member, three groups of rollers between the driving member and the roller engaging faces of the floating member, and means for locking the rollers in each group to the driving member and to the floating member whereby the locked rollers will collectively drive said driven member.

2,158,193

SOUND REPRODUCTION

Richard S. Morse, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 30, 1937, Serial No. 166,525
4 Claims. (Cl. 179—100.3)



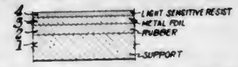
1. An electric circuit for reproduction of sound-on-film comprising an exciter lamp and photocell combination adapted to transform a sound-on-film record into electrical modulation, a high frequency oscillator supplying power to the exciter lamp and including control means operable in accordance with an input potential for controlling the energy supplied to the lamp, means including a rectifier across the output of the photocell for establishing a potential in accordance with the amplitude of said modulations and means for supplying the latter potential as said input potential to the control means.

2,158,194

PHOTOGRAPHIC MATERIAL

Alexander Murray, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

Original application May 24, 1934, Serial No. 727,304. Divided and this application December 7, 1935, Serial No. 53,381
3 Claims. (Cl. 95—8)



1. A sensitized element comprising a thin, translucent, elastic sheet of vulcanized rubber, a thin layer of metal foil removably secured to one surface of the rubber sheet and a photographically sensitive layer over said metal foil.

2,158,195

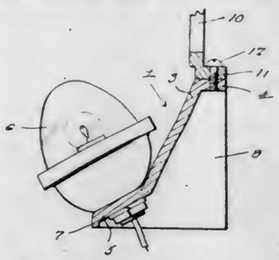
ILLUMINATED SIGN

Oscar E. Mutti, Plymouth, Ind.

Application May 12, 1938, Serial No. 207,599
5 Claims. (Cl. 40—130)

1. A sign of the class described comprising an elongated base adapted to be mounted trans-

versely on a vehicle, said base being formed from a single piece of metal and including an inclined plate comprising an angularly projecting lower portion extending forwardly from said plate at a different degree of inclination, a rearwardly



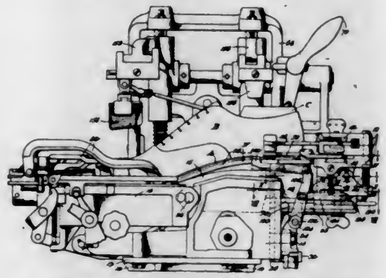
extending flange integral with the upper edge of the inclined plate, characters detachably mounted on said flange, and a plurality of lights mounted on the angularly projecting lower portion of the plate for illuminating said characters.

2,158,196

MACHINE FOR USE IN PRESSING SOLES ON SHOE BOTTOMS

Charles H. Pepin, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application November 10, 1937, Serial No. 173,831
11 Claims. (Cl. 12—33)



1. A machine for pressing soles on shoe bottoms having, in combination, a yieldable pad for receiving a sole and shoe, mechanism for effecting relative movement between the shoe and pad to press the sole against the shoe bottom, and rigid means yieldable with the pad for conforming the entire heel seat portion of the sole to fit the depression in the attaching face of a heel during the pressing operation.

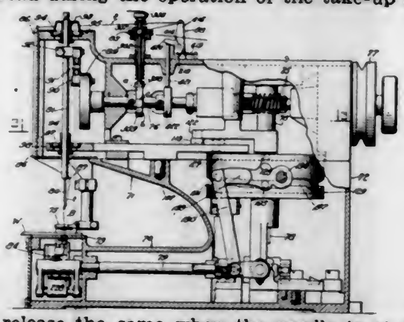
2,158,197

SEWING MACHINE

Joseph H. Pikul, Boston, Mass.

Application November 20, 1937, Serial No. 175,651
7 Claims. (Cl. 112—255)

1. In a sewing machine, in combination, stitch-forming devices including a needle and cooperating loop handling means, means for reciprocating said needle to cause the same to penetrate and withdraw from the work, a take-up, means for operating the same when the needle has passed through a previously formed loop during its work penetrating movement to withdraw said previously formed loop from the loop handling means, a thread clamp for the needle thread, and means for operating said clamp to clamp the thread during the operation of the take-up and



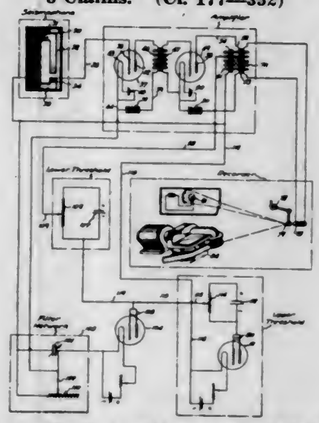
to release the same when the needle is at the limit of its penetrating movement.

2,158,198

METHOD AND APPARATUS FOR MAKING GEOLOGICAL EXPLORATIONS

Harold R. Prescott, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

Application July 25, 1935, Serial No. 33,029
8 Claims. (Cl. 177—352)



1. In a method of making geophysical explorations in which earth vibrations are generated, the vibrations and reflections thereof from geological strata are converted into electromotive forces of varying voltages in sympathy with said vibrations and reflections, and said voltages are amplified and recorded, the steps of amplifying voltages below a predetermined value a predetermined amount, amplifying voltages between said predetermined value and a second predetermined value inversely as a function of the voltage, and amplifying voltages higher than said second predetermined value an amount equal to the amplification voltages of said second predetermined value.

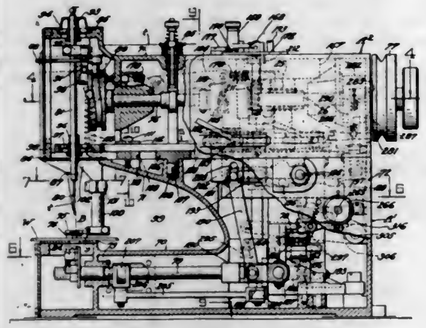
2,158,199

BUTTON SEWING MACHINE

Franklin A. Reece, Brookline, Mass.

Application January 24, 1936, Serial No. 60,616
28 Claims. (Cl. 112—111)

1. In a machine for sewing on buttons, the combination with means for holding and positioning a button, of stitch forming mechanism including a needle bar and a needle carried thereby, said needle bar being reciprocable longitudinally of the needle to cause the needle to penetrate the work and being also movable in a plu-



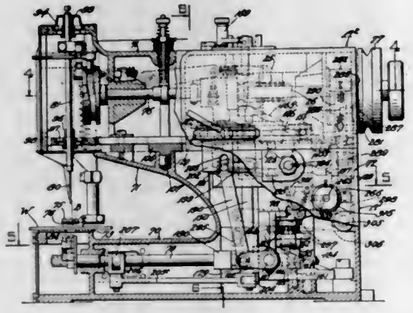
rality of directions transverse to its direction of reciprocation to position the needle with respect to the several holes of a plurality of pairs or rows of holes in the button.

2,158,200

BUTTON SEWING MACHINE

Franklin A. Reece, Brookline, Mass.

Original application January 24, 1936, Serial No. 60,616. Divided and this application June 6, 1936, Serial No. 83,943
22 Claims. (Cl. 112—110)



1. In a machine for sewing on buttons, stitch forming mechanism, means for operating the same in cycles to form stitches in groups of a predetermined number each, and stop mechanism actuated by said operating means and adjustable to stop said machine after the completion of a variable number of cycles.

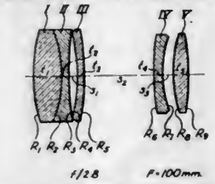
2,158,201

LENS

Willy Schade, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 19, 1937, Serial No. 175,474
7 Claims. (Cl. 88—57)

1. A high magnification image forming objective comprising two achromatic collective components spaced more than one-quarter of and less than twice the focal length of the objective, the component on the long focus side consisting of a cemented doublet whose cemented surface is convex to the other component and a negative



f/28 F=100mm.

LENS	GLASS	RADII	SPACINGS
I	N_d=1.6109 ν=37.2	R_1=+60.0mm	t_1=12.0mm
		R_2=−38.5mm	t_2=3.0mm
II	N_d=1.5750 ν=42.7	R_3=+498.0mm	s_1=2.0mm
		R_4=−83.9mm	t_3=3.0mm
III	N_d=1.5224 ν=59.6	R_5=−9400mm	s_2=27.5mm
		R_6=+134.2mm	t_4=3.0mm
IV	N_d=1.6164 ν=36.6	R_7=+35.1mm	s_3=4.0mm
		R_8=+43.0mm	t_5=6.0mm
V	N_d=1.6109 ν=37.2	R_9=−116.0mm	

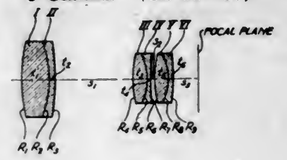
meniscus lens in marginal contact with the inner element of the doublet.

2,158,202

LENS SYSTEM

Willy Schade, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 19, 1937, Serial No. 175,473
6 Claims. (Cl. 88—57)



1/13 F=100mm

LENS	GLASS	RADII	SPACINGS
I	N_d=1.5224 ν=59.6	R_1=+93.2mm	t_1=28.6mm
		R_2=−75.1mm	t_2=4.75mm
II	N_d=1.6164 ν=36.6	R_3=−209.0mm	s_1=76.3mm
III	N_d=1.5163 ν=64.0	R_4=+67.3mm	t_3=14.6mm
		R_5=−60.5mm	t_4=3.64mm
IV	N_d=1.5750 ν=42.7	R_6=+411.0mm	s_2=3.25mm
V	N_d=1.5163 ν=64.0	R_7=+65.0mm	t_5=14.6mm
		R_8=−48.9mm	t_6=3.64mm
VI	N_d=1.5750 ν=42.7	R_9=−800.0mm	s_3=27.65mm (Back Focus)

1. An image forming objective comprising an achromatic front component and an achromatic rear component spaced therefrom more than one quarter of and less than twice the focal length of the objective, said rear component consisting of two doublets each having a cemented surface concave to the front component and with a radius of curvature less than its outer surfaces and greater than one quarter of the focal length of the objective.

2,158,203

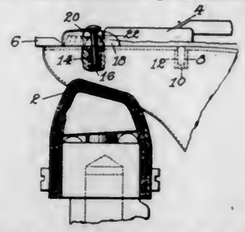
MEANS FOR HOLDING SHOE UPPERS IN LASTED POSITION

August R. Schoenky, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application April 23, 1937, Serial No. 138,613
2 Claims. (Cl. 12—107)

1. A device for holding an end of an upper in lasted position upon an insole on a last, said device comprising an upper-engaging member formed to extend around the end of the shoe bottom over the insole and having integral therewith a resilient finger projecting from the portion thereof located at the extreme end of the shoe

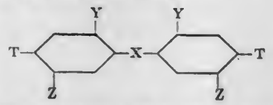
and normally inclined relatively to the upper-engaging face of said member but adapted to be sprung toward a position of parallelism with said face, and a pin on the free end of said finger extending in substantially perpendicular relation



thereto and arranged to enter a hole in the last perpendicular to the bottom face thereof and to be tipped by the finger to cramp it in said hole and thus maintain the finger under such stress as to hold said member pressed upon the upper.

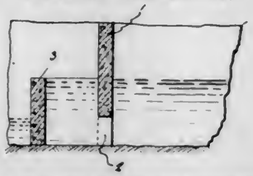
2,158,204
FOG INHIBITOR FOR PHOTOGRAPHIC EMULSIONS
Samuel E. Sheppard and Waldemar Vanselow, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Original application May 7, 1936, Serial No. 78,464. Divided and this application January 22, 1937, Serial No. 121,863
6 Claims. (Cl. 95—7)

4. A photographic emulsion comprising gelatin having a sensitive silver salt dispersed therein and containing as an anti-foggant a compound having the general formula



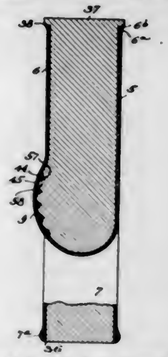
wherein X is selected from the group consisting of simple chemical bond, sulfur, oxygen, and $(CH_2)_n$ where n is any whole number, T is selected from the group consisting of amino and alkylamino, Y is selected from the group consisting of amino, alkylamino, and hydrogen, and Z is selected from the group consisting of alkyl, oxyalkyl and hydrogen.

2,158,205
DAM
Don Smith, Austin, Tex.
Application May 18, 1937, Serial No. 143,369
1 Claim. (Cl. 61—30)



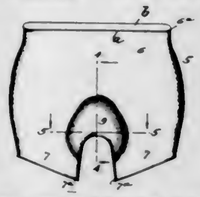
A dam of the class described comprising a main wall extending across a stream and of a height to impound flood waters, the bottom part of the wall having an opening therein for the passage of the normal flow of water of the stream, a short wall paralleling the first wall and spaced from the down-stream face of the first wall and located in rear of the opening, end walls connecting the ends of the short wall with the first wall, one end wall being located to one side of the opening and the other to the opposite side of the opening, the second wall and said end walls being of considerably less height than the first wall and said short wall and the end walls acting to impound a certain amount of water in the stream above the dam but permitting the passage of the normal flow of water of the stream, said short wall and the end walls discharging the water directly into the stream bed below the dam.

2,158,206
FORM FOR MAKING RUBBER GARMENTS
Abraham N. Spánel, Rochester, N. Y.
Application February 12, 1936, Serial No. 63,548
4 Claims. (Cl. 18—41)



1. A form for making latex trunks or the like, said form being provided with a body portion and leg portions thereon to define a crotch, said body portion having a protuberance with an uneven surface thereon at said crotch.

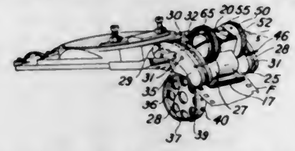
2,158,207
RUBBER GARMENT
Abraham N. Spánel, Rochester, N. Y.
Application July 7, 1937, Serial No. 152,398
5 Claims. (Cl. 2—224)



1. A seamless, deposited latex body garment, a portion of the inner surface of the garment being provided with an uneven surface pattern to conceal the body contour.

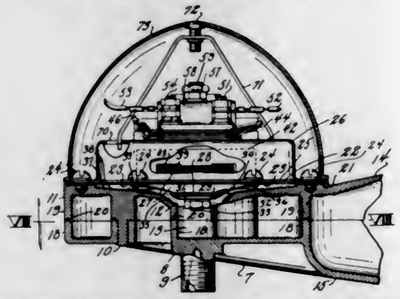
2,158,208
ATTACHMENT FOR MOTION PICTURE MACHINES
Edwin F. Tetzlaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 23, 1937, Serial No. 170,609
9 Claims. (Cl. 88—17)

1. In a machine of the class described, an intermittent film guide assembly comprising, in combination, a support, a guide having one end thereof pivotally mounted on said support, a film shoe pivotally mounted directly on said guide intermediate the ends thereof and adapted to freely move relative thereto, means engaging the



other end of said guide and tending to yieldably move the latter and said shoe toward a film sprocket, and means for adjusting said last mentioned means.

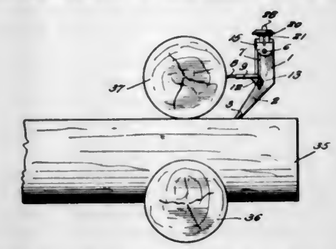
2,158,209
SOUND SIGNALING
Frederick Von Voigtlander, Adrian, Mich., assignor to Schwarze Electric Company, Adrian, Mich., a corporation of Michigan
Application August 15, 1936, Serial No. 96,285
1 Claim. (Cl. 116—142)



A signal device embodying a generally circular housing section having axially on one side a seat for mounting the section free to be positioned angularly in a desired direction range, said section having on the opposite side a spiral way to a radial projector, a second complementary housing section completing said spiral way and projector, said second section having axially thereof a port in communication with said spiral way, said port being on the side of the second section away from the mounting seat, and a diaphragm actuator for the device carried by the second section and spaced by both sections from the mounting seat, said mounting seat being effective to position the projector in the said range of desired directions.

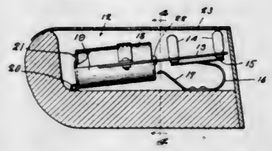
2,158,210
SCRIBER
Fred J. Zimowske, Mio, Mich.
Application October 30, 1937, Serial No. 171,997
8 Claims. (Cl. 33—41)

1. A scriber comprising a blade formed with a longitudinally extending slot in spaced parallel relation to one edge thereof, a leg extending from the lower end of the blade and projecting from the said side edge of the blade at a downward incline, a tubular carrier having its inner end portion straddling the blade and formed with wings engaging opposite side faces of the blade, a fastener extending through the wings and through the slot of the blade and mounting the carrier for pivotal adjustment about the fastener and longitudinal adjustment relative to the blade, a marker removably carried by said tubular carrier and projecting from the outer end thereof, and means carried by said blade for determining



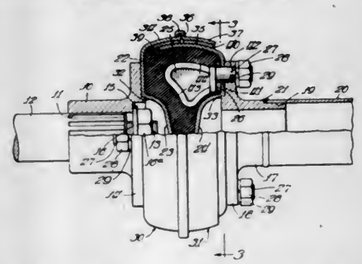
the angular position of the blade relative to a vertical position.

2,158,211
LIGHT FOR GOLF CLUBS
Matthew Aitken, Brookline, Mass.
Application June 13, 1938, Serial No. 213,500
3 Claims. (Cl. 273—35)



1. A practice golf club including a head, electric lamps within the head an electric circuit, a suitable source of electric current within the head, a contact member within the head and means coacting with said contact member and operable to complete the circuit to the electric lamps illuminating the lamps when the club is swung in executing a practice golf swing.

2,158,212
FLEXIBLE COUPLING
Edmund B. Anderson, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 1, 1937, Serial No. 128,313
9 Claims. (Cl. 64—14)



1. A flexible coupling comprising apertured flanged members, a rubber wheel, an apertured metallic bi-partite casing to which said wheel is vulcanized, the apertures in the casing being substantially aligned with the apertures in the flanged members, a plurality of blades in said rubber wheel, extensions on the blades adapted to project through the apertures in the flanged members, said blades being threaded alternately through the apertures in each part of the bi-partite casing, and means for securing said extensions to their respective flanges.

2,158,213
PROCESS OF PREPARING CHLORINATED ETHYLENES

Georg Basel and Erich Schaeffer, Burghausen, Upper Bavaria, Germany, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Bavaria, Germany, a corporation of Germany

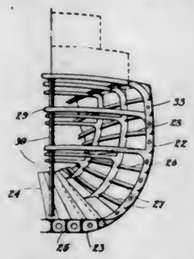
No Drawing. Application June 7, 1937, Serial No. 146,874. In Germany June 16, 1936
3 Claims. (Cl. 260—654)

1. Process of preparing chlorinated ethylenes which comprises passing a gaseous mixture of acetylene and pentachlorethane over a catalyst substance of high surface action at a temperature of 200–300° C.

2,158,214
SHIP HULL CONSTRUCTION

Leonard R. Bester, Staten Island, N. Y.

Application October 21, 1936, Serial No. 106,872
10 Claims. (Cl. 114—79)

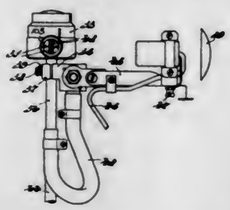


1. A ship hull structure comprising a series of transverse web frames, a series of longitudinal members secured thereto to constitute a hull frame, plating on the outside of said hull frame, the longitudinal members being curved, the lower members being curved concavely and the upper members being curved convexly, said curved longitudinal members appearing curved from any angle and being incapable of lying in a plane.

2,158,215
LIGHTING DEVICE

Cornelis Bol and Adrianus Linnemans, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application March 11, 1936, Serial No. 68,322
In Germany March 20, 1935
4 Claims. (Cl. 240—11.2)

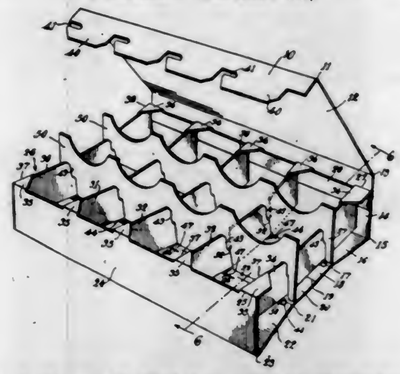


1. A lighting device comprising a fixed head, a lamp housing movably mounted on said head, a liquid-cooled lamp disposed within said housing, and means mounted on said fixed head and said housing for energizing the lamp and for supplying a cooling liquid thereto only when the lamp housing occupies its operative position, said means comprising cooperating passageways in said head and in said housing, and cooperating electrical contacts.

2,158,216
CARTON STRUCTURE

Robert B. Boyle, Chicago, Ill., assignor, by mesne assignments, to Consolidated Carton, Inc., Chicago, Ill., a corporation of Illinois

Application November 11, 1937, Serial No. 174,044
4 Claims. (Cl. 229—29)

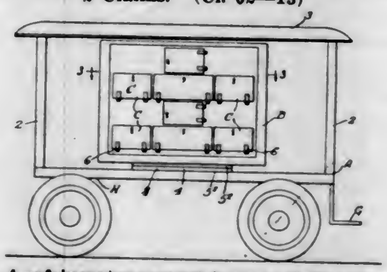


1. A carton for eggs and the like comprising a cover, bottom, front and rear longitudinal side walls, and an interior panel across the top of the carton cut and scored to provide a series of downfoldable flaps which in down-folded position form parallel transverse partitions in the carton, and a plurality of separate insertable longitudinal partitions adapted to intersect said transverse partitions in parallel spaced longitudinal positions to divide the carton into cells, each of said longitudinal partitions having notched tongues thereon arranged to be received in slots formed in the bottom and to be longitudinally movable in said slots to bring the notches into locking engagement with the ends of the slots, at least one of said slots for each partition having a movable locking tab at the end of the slot which yields to permit insertion of the tongue and which moves against the tongue to prevent disengagement of the notch, the bottom, the interior panel and the side walls being united into a flat foldable parallelogram structure.

2,158,217
CARRIER FOR MILK PRODUCTS

Robert E. Brisbane, Delhi, N. Y.

Application October 31, 1935, Serial No. 47,578
2 Claims. (Cl. 62—13)

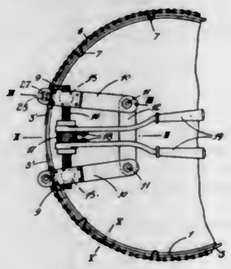


1. A refrigerator comprising a container; a support therefor and means rotatably mounting said container on said support; said container having a plurality of walls enclosing a space and each provided with a series of spaced openings; a set of supporting rails flush with the bottom of each opening and extending into said space; a door mounted to swing from a position closing each opening to a position in alinement with the upper surfaces of the associated rails; a tray slidably mounted on each set of rails and movable from a position within the container to an extended position partly overlying the associated door; a closure element movable with said tray and closing said opening when the tray is in said extended position; and refrigerating means within said container; said trays and closure elements normally cooperating to define a compartment for said refrigerating means, and a series of compartments communicating with the first mentioned compartment.

2,158,218
METHOD OF CLOSING METAL DRUMS

Georges Brouhon, Brussels, Belgium, assignor to Solvay & Cie, Brussels, Belgium, a company of Belgium

Application March 7, 1936, Serial No. 67,698
In Belgium March 14, 1935
4 Claims. (Cl. 113—121)



1. In a process for closing drums of the open head type having a drum body with a rolled edge, a head with a flange fitting on said edge, and a flexible band of channel cross-section surrounding said edge and flange, gripping the ends of said band, seizing said band along two peripheral circles respectively above and below its largest diameter, drawing together the ends of said band while simultaneously exerting a tightening pull on said band along said two peripheral circles, and then securing said ends together while still exerting said pull on said band.

2,158,219
METHOD OF PRODUCING PHOTOGRAPHIC EMULSIONS

Bruno Claus, Halle-on-the-Saale, Germany

No Drawing. Application January 15, 1937, Serial No. 120,783. In Germany January 20, 1936
5 Claims. (Cl. 95—7)

1. In the process of producing photographic emulsions the steps of emulsifying a wet silver halide sediment in less than one third of the total quantity of the water and of the gelatine required to produce a photographic emulsion, ready to be poured, which contains said silver halide, allowing the silver halide to age therein in the presence of an aging agent and thereafter mixing the ripened product with the rest of the water and gelatine.

2,158,220
PROCESS OF CONCENTRATING CALCITE

Arthur Crago, Mulberry, Fla., assignor to Phosphate Recovery Corporation, New York, N. Y., a corporation of Delaware

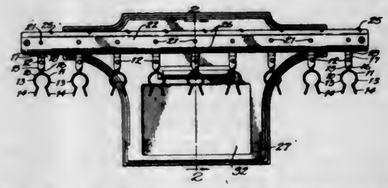
No Drawing. Original application February 15, 1933, Serial No. 656,887, now Patent No. 2,105,807, dated January 18, 1938. Divided and this application January 8, 1938, Serial No. 184,083
5 Claims. (Cl. 209—167)

1. A process of concentration which comprises agitating a pulp, nearly free from slimes, of suitably divided particles of an ore containing principally calcite and silicious matter in the presence of a fraction of one per cent. of a free fatty acid and a fraction of one per cent. of a substantially insoluble and unsaponifiable oil, without added alkali or other agent capable of substantially affecting its pH value; and separating a concentrate relatively rich in calcite and relatively poor in silicious matter.

2,158,221
RACK FOR RUBBER STAMPS OR THE LIKE

Stanley V. Dahlin, Chicago, Ill.

Application June 25, 1938, Serial No. 215,830
3 Claims. (Cl. 211—39)



1. In a rack of the character described, a clip consisting of companion jaw members each formed of a flat bar having an inner portion lying in flatwise relation to the inner portion of the companion jaw member and an outer gripping portion standing in edgewise relation to the inner portion and connected therewith by a twisted convolute neck, a pivot for connecting the inner flat lying portions of the respective jaw members, a spring engaging the inner portion of one of the jaw members for holding the gripping portions of the jaws in closed relation, and a supporting member to which the inner end of the companion jaw member is secured, the twisted convolute neck portions being adapted to nest against one another when the jaw members stand in closed relation.

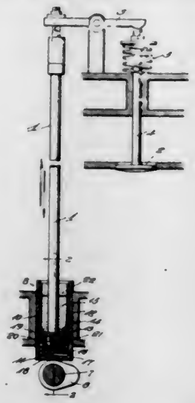
2,158,222
COMPENSATING VALVE MECHANISM

Ernest L. Dayton, Detroit, Mich.

Application November 17, 1936, Serial No. 111,292
Renewed October 5, 1938
5 Claims. (Cl. 123—90)

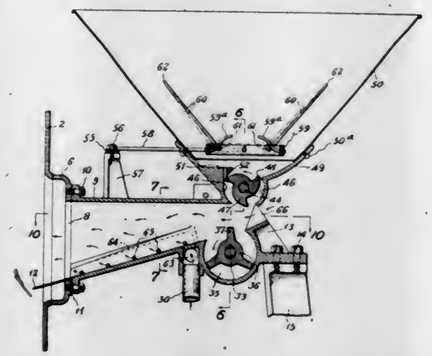
1. A lost motion compensating valve device for transmitting motion from a motion transmitting member to a motion receiving member comprising a cylinder receiving motion from the motion transmitting member, a plunger working therein and operating to transmit motion to the motion receiving member, said cylinder and plunger having oil spaces in communication through a restricted passage for flow of the oil between the plunger and cylinder, a spring tending to separate the plunger and cylinder, a check valve operating to permit flow of oil through the passage from the plunger to the cylinder and

to prevent reverse flow thereof through said passage, a spring member operating to oppose by a yielding resistance the opening of the valve at speeds up to a certain speed rate of the mo-



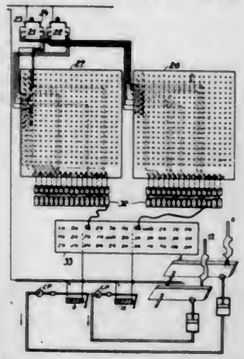
tion transmitting member, and a spring member brought into action to additionally oppose by a yielding resistance the opening movement of the valve at higher speeds of the motion transmitting member.

2,158,223
STOKER
Eugene L. De Mooy, Cleveland, Ohio, assignor to Marcella M. De Mooy, Cleveland, Ohio
Continuation of application Serial No. 571,757, October 29, 1931. This application January 4, 1937, Serial No. 119,051
6 Claims. (Cl. 110—115)



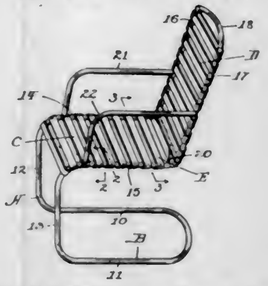
6. In a stoker, the combination of a chamber having an inlet and an outlet, means for supplying crushed fuel to said chamber, a fuel-intercepting and flipping device in said chamber and adapted to project intercepted fuel toward the outlet of said chamber, means for actuating said device, said chamber being additionally provided with a draft hole adjacent the orbital path described by an extremity of said device and fluid-projecting means cooperating with said draft hole for premixing air drawn through the latter with the projected fuel and for prolonging flotation of the flipped fuel during its violent projection through the outlet of said chamber.

2,158,224
TYPOGRAPHICAL SINGLE-TYPE COMPOSING MACHINE
Jean du Four, Antwerp, Belgium
Application March 10, 1937, Serial No. 130,057
In Belgium March 10, 1936
14 Claims. (Cl. 164—113)



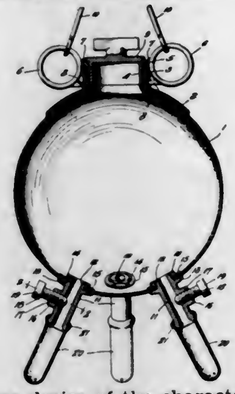
1. In a single-type composing machine comprising a perforating mechanism controlled by means of pneumatic valves and a keybank, the combination of electromagnets with electric circuits controlled by the depression of the keys at the keybank for actuating the pneumatic valves.

2,158,225
CHAIR
Austin E. Elmore, Los Angeles, Calif., assignor to Philip M. Virtue and Julian A. Virtue, both of Los Angeles, Calif., doing business as copartners under firm name and style of Virtue Bros. Mfg. Co.
Application March 21, 1938, Serial No. 197,182
4 Claims. (Cl. 155—179)



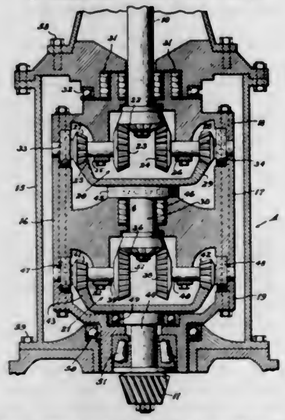
4. An article of furniture having longitudinal side bars held spaced apart and forming part of a seat and back, a filler between said bars comprising a plurality of adjacently arranged transverse endless elastic bands adapted for being sprung over the portions of said side bars forming the seat and back and thereafter to grip said bars, each band being relatively wide as related to its thickness and one side of all of the bands providing a substantially flat elastic supporting surface between said bars and the front side being superimposed and spaced from the companion back side of each band whereby the front side may stretch and sag into contact with the back side and the supporting strength of the front side be resiliently reinforced, and arm rests between the seat and back portions of each side bar, each rest being secured by one end to one of the seat or back portions of a bar with its free end spaced from the companion portion of said bar to permit adjusting said bands over the bars.

2,158,226
FEEDING DEVICE
James R. Elsey, Maplewood, Mo.
Application August 2, 1937, Serial No. 157,015
2 Claims. (Cl. 119—71)



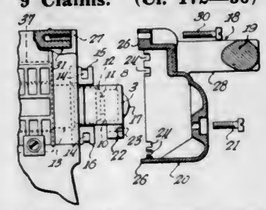
1. A feeding device of the character described comprising a container formed of soft flexible material and having its upper portion thickened and formed with an upstanding neck, an internally threaded sleeve of rigid material mounted in the neck and having an upper upstanding flange overlying said neck, arms extending from said sleeve laterally from said neck, suspending means carried by said arms, a cap screwed into said sleeve and constituting a removable closure for tightly closing the neck, and discharge means extending downwardly from the lower portion of the container.

2,158,227
POWER TRANSMISSION
Frank Focher, Jr., Worden, Mont.
Application January 6, 1937, Serial No. 119,195
8 Claims. (Cl. 74—259)



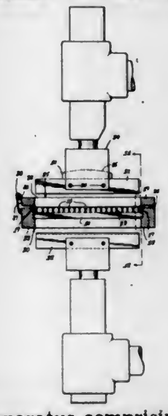
1. Power transmission comprising a driving member and a driven member, a rotatable member carried by the said driving and driven members, gear means interposed between the driving and driven members adapted to vary the speed ratio therebetween comprising a primary and a secondary gear unit including crown gears and twin pilot gears, a drive gear for the drive shaft adapted to drive the primary gear unit, a secondary gear operable by the primary unit adapted to drive the secondary gear unit, said gear units being carried by the rotatable member and the driving force of the said rotatable member being adapted to supersede and be supplemented by the driving force of the primary and secondary gear units in accordance with predetermined load differential.

2,158,228
ELECTRIC DRILL
Fritz V. Forss, Aurora, Ill., assignor to Independent Pneumatic Tool Co., Chicago, Ill., a corporation of Delaware
Application March 30, 1938, Serial No. 198,915
9 Claims. (Cl. 172—36)



1. A portable motor driven tool having a motor-enclosing case, a bearing for the motor at the rear end of said case, a support for the bearing carried by said case, said case having an open rear end terminating short of said bearing, a side handle secured to the motor case, a cover element for the rear end of the motor case and secured thereto over the bearing and its support, and an end handle secured to and projecting rearwardly from said cover element.

2,158,229
GRILLE MAKING APPARATUS
George R. Goldthwaite, South Easton, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application March 4, 1938, Serial No. 193,937
8 Claims. (Cl. 219—4)

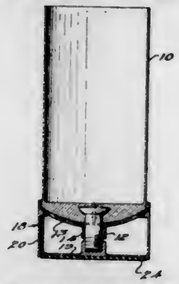


1. Welding apparatus comprising an electrode having a longitudinal slot for receiving a metal strip for welding, an opposing electrode adapted to press a plurality of transversely arranged metal strips against said strip, a holder for said

opposing electrode, means for holding said opposing electrode in said holder, and aligning means for adjusting said opposing electrode for exerting equal pressure upon all of said transversely arranged strips.

7. Welding apparatus comprising a form, means in said form providing a plurality of groups of slots for receiving longitudinal metal strips, and means in said form providing a plurality of slots extending at right angles to the slots in said groups for receiving transverse metal strips for welding to said longitudinal strips.

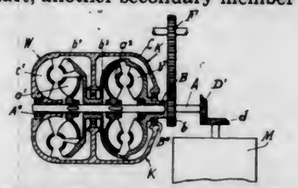
2,158,230
BEVERAGE GLASS
Edward C. Godfrey, Detroit, Mich.
Application September 19, 1938, Serial No. 230,602
4 Claims. (Cl. 65—13)



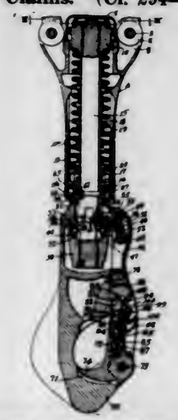
2. A dripless beverage glass comprising, in combination, a glass including a centrally disposed depending threaded stem, a liquid receiver having the inner periphery of the top thereof slightly larger than the outer periphery of the bottom of the said glass threaded on the depending stem of the said glass, a centrally apertured liquid retainer disc adapted to serve as a cover for the said liquid receiver disposed in the top of the said liquid receiver below the said glass, the said liquid retainer being formed to drain downward into the said liquid receiver, means for holding the said liquid retainer spaced from the bottom of the said glass, and means for supporting the said liquid retainer in spaced relationship to the bottom of the said glass and for effecting a seal between the inner periphery of the said liquid receiver and the outer periphery of the said liquid retainer simultaneously with threading the said liquid retainer on the stem of the said glass, the volume of the said liquid receiver and the relationship of the said liquid retainer thereto being such that liquid gravitating into the said liquid receiver will not spill therefrom during use.

2,158,231
HYDRAULIC POWER PLANT
Dietrich Gössler, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc., New York, N. Y.
Application December 12, 1934, Serial No. 757,243
In Germany December 11, 1933
5 Claims. (Cl. 60—54)

1. Hydraulic power transmission of the Fottinger type comprising in combination an outer casing, a driving shaft and a driven shaft extending into said casing, said driven shaft including an at least partly hollow end portion surrounding and supporting part of said driving shaft, an intermediate casing connected with said driven shaft, an impeller mounted on said driving shaft and a secondary member mounted on said intermediate casing both arranged for cooperation as a coupling, and another impeller mounted on said driving shaft, another secondary member mounted on said intermediate casing and a guide portion fixed to said outer casing all arranged for cooperation as a torque transformer.

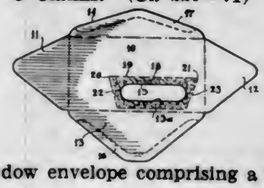


2,158,232
DRILLING HOOK
Herbert E. Grau and Richard K. Hertel, Vernon, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application December 6, 1937, Serial No. 178,240
19 Claims. (Cl. 294—82)



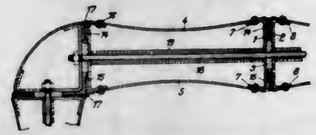
1. A hook structure comprising a hook member for engaging a load, a supporting member for supporting said hook member, a pair of bearing elements having complementary spherical contact surfaces relatively slidable on each other, means connecting one of said bearing elements to said supporting member, and means connecting the other of said bearing elements to said hook member, in which at least one of said connecting means comprises antifriction bearing means rotatably interconnecting the bearing element and member associated therewith.

2,158,233
ENVELOPE
Robert L. Gray, Brooklyn, N. Y.
Original application June 14, 1933, Serial No. 675,689. Divided and this application December 11, 1937, Serial No. 179,251
8 Claims. (Cl. 229—71)



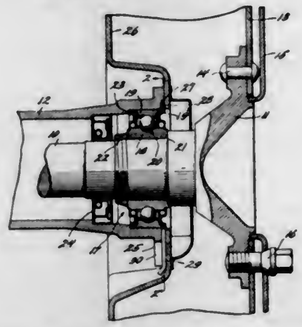
1. A window envelope comprising a separately formed envelope blank and separately formed patch overlying a cutout, said patch being adhesively united to the envelope blank by a film of adhesive from an edge of the patch adjacent the filling side of the envelope, the film uniting the patch progressively decreasing in area towards the cutout portion.

2,158,234
COMPOSITE SHEET METAL WALL STRUCTURE
Franz Griebsch, Dessau, Germany, assignor to Therese Junkers, Ganting, near Munich, Germany
Application July 12, 1935, Serial No. 31,070
In Germany July 13, 1934
5 Claims. (Cl. 189—34)



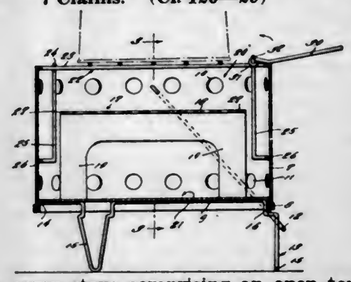
1. Sheet metal wall structure comprising in combination, flanged sheet metal channels arranged in pairs with oppositely directed flanges and united to form stanchions with longitudinally extending grooves, pairs of inwardly depressed sheet metal panels inserted between each of two adjoining stanchions, convex sides of said panels facing each other and inwardly bent marginal portions of said panels projecting into the vertical grooves of said stanchions, packing material in the grooves filling the interstices between adjoining flanges and means directly securing each panel to the flanges of the channels.

2,158,235
MOTOR VEHICLE
Walter R. Griswold, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application January 22, 1937, Serial No. 121,870
13 Claims. (Cl. 308—236)



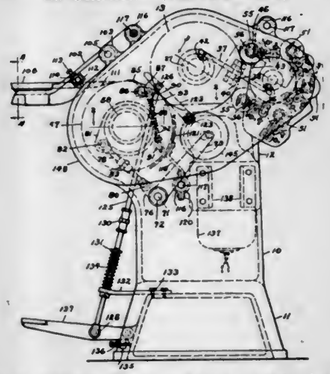
1. In an axle mounting for motor vehicles, an axle housing, an axle mounted therein, a brake backing plate carried by said axle housing, an anti-friction bearing between said axle and said axle housing, means for retaining said bearing against longitudinal movement on said axle, and readily retractible means for securing said bearing against outward longitudinal movement in said axle housing, said retractible means being accessible from the inner side of said brake backing plate for release of said bearing.

2,158,236
PORTABLE CAMP STOVE
Albert S. Haislip, Fredericksburg, Va.
Application January 29, 1938, Serial No. 187,768
7 Claims. (Cl. 126—29)



3. A camp stove comprising an open top casing including an imperforate bottom and an upstanding marginal apertured wall, a grate insert removably arranged in said casing and including an apertured plate serving as a divider and defining upper and lower compartments, and a utensil supporting and cooking grille unit detachably and adjustably associated with said insert, said grille unit comprising an openwork grid and depending supporting legs and folding handle as described.

2,158,237
MAKE-READY AND PROOF MACHINE
William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application December 28, 1936, Serial No. 117,937
18 Claims. (Cl. 101—216)

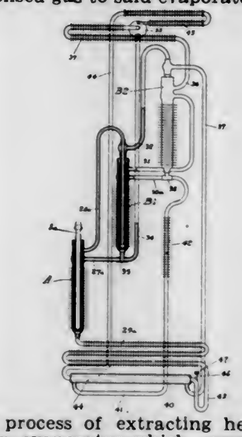


1. In a machine for making ready independently of the printing machine, a rotatably supported form cylinder, a rotatably supported impression cylinder arranged for printing cooperation with the form cylinder, means carried by the impression cylinder for operably securing a sheet on the cylinder for printing engagement with the form cylinder, and a slidable platform pivotally supported in predetermined relation to the impression cylinder.

2,158,238
PROCESS FOR THERMAL ATMOLYSIS AND APPARATUS EMPLOYING SAME
Rasmus M. Hvid, Wilmette, Ill.
Application January 11, 1935, Serial No. 1,273
33 Claims. (Cl. 62—125)

1. A thermal atmolysis apparatus comprising a plurality of housings connected in series relation-

ship and each having a porous partition forming two chambers therein, an evaporator, means for delivering a mixture of gases of different diffusibilities from said evaporator to one of said chambers in said first housing, means for heating the gases contained in the other chamber of said first housing, means for delivering the lighter mixture of gases from said first housing to one of the chambers of said second housing, means for heating the gases contained in the second chamber of said second housing, a cooler, means for delivering the lighter mixture of gases from said second housing to said cooler, a connection between said cooler and said evaporator, means for delivering the heavier mixture of gases from said second housing to the chamber of the first housing whereto the mixture of gases from the said evaporator is initially delivered, means for condensing the heavier gas of the mixture of gases delivered from said first housing, and means for delivering said condensed gas to said evaporator.

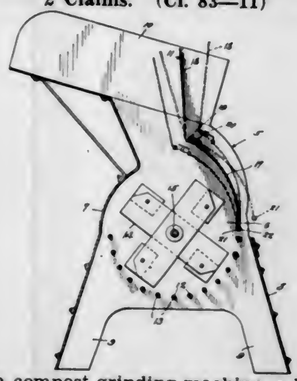


15. The process of extracting heat from the walls of an evaporator which comprises mixing two gases in a closed system including the evaporator, one of said gases being a neutral gaseous medium and the other being a readily condensible refrigerating medium, separating said gases from each other by thermal atmolysis through a porous partition, the gases on one side of said partition being maintained at a temperature lower than that of the predominantly neutral gas on the opposite side of said partition whereafter some of the neutral gas is cooled and then delivered to said evaporator and some of the condensible gas is condensed and then delivered to said evaporator where it is allowed to evaporate and extract heat from the walls of the evaporator, and then delivering the cooled mixture of gases from the evaporator whereafter it is again subjected to thermal atmolysis to partake of cyclic operation in the closed system.

2,158,239
ACRYLATES
William A. Lott, East Orange, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Original application September 12, 1933, Serial No. 689,158. Divided and this application May 8, 1937, Serial No. 141,567
3 Claims. (Cl. 260—477)

1. Compounds having the general formula X,Y-amino-alkyl α-R cinnamate wherein R, X, and Y represent alkyls at least one of which has at least four carbon atoms; and the inorganic salts thereof.

2,158,240
COMPOST GRINDER
Henry J. Mankoff, Wichita, Kans.
Application September 28, 1936, Serial No. 103,032
2 Claims. (Cl. 83—11)



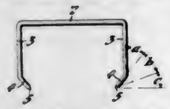
2. In a compost grinding machine, a body portion having a feed opening and having a curved grinding section, rotary blades operating within the curved grinding section, horizontal rods arranged in spaced relation with respect to each other and cooperating with the rotary blades in grinding material, a plate forming a wall of the feed opening and a portion of the grinding section, said plate being pivotally mounted intermediate its ends, the pivot point of the plates being disposed within the feed opening, one end of the plate being curved and extending downwardly into the curved grinding section of the body portion cooperating with the blades in grinding material, the opposite end of the plate being substantially straight and extending upwardly into the feed opening to lie within the path of travel of material passing into the feed opening whereby material passing into the feed opening presses the straight portion of the plate outwardly so that the lower end of the plate moves inwardly towards the rotary blades.

2,158,241
INSECTICIDE AND PROCESS OF MAKING THE SAME
Sisto E. Marsico, Aspinwall, Pa.
No Drawing. Application June 18, 1936, Serial No. 86,000
2 Claims. (Cl. 167—24)

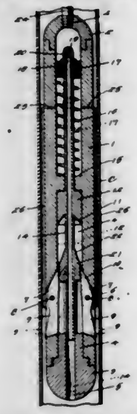
1. In an insecticide, a rotenone solution consisting of commercially pure rotenone dissolved in chloroform liniment in about the proportions of 1 gram of rotenone to 40 cc. of chloroform liniment, the chloroform liniment being composed of about 30% chloroform and about 70% camphor soap liniment, and the camphor soap liniment being composed of hard soap, camphor oil, oil of Rosemary, alcohol and distilled water in the proportions of hard soap 60 gr., camphor oil 45 gr., oil of Rosemary 10 cc., alcohol 700 cc., and sufficient distilled water to make 1000 cc. of the camphor soap liniment.

2,158,242
STAPLE FOR BLIND STITCHING
Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application October 8, 1936, Serial No. 104,688
3 Claims. (Cl. 85—49)

1. A self-clinching staple of readily deformable wire for forming a blind stitch comprising a crossbar and depending legs having parallel portions adjacent the crossbar, straight portions adjacent their free ends inclined inwardly toward each other, and the ends beveled to direct the points inwardly toward each other when the staple is applied to the work.



2,158,243
CASING CUTTER
Judson J. McCann, Lake Charles, La.
Application March 3, 1938, Serial No. 193,774
4 Claims. (Cl. 164—0.7)



3. A casing cutter comprising a tubular member having a slot in its side wall, a cutting member, means for pivotally mounting the cutting member upon the tubular member, said member having a tail piece extending within the tubular member in all positions of the cutting member about its pivot, and a movable actuator within the body for the cutting member, said actuator having means thereon to engage one edge face of the cutting member upon movement of the actuator in one direction to move the cutting member outwardly from the body thru the slot, said actuator having additional means to contact with a second edge face of the tail piece of the cutting member upon movement of the actuator in the opposite direction to retract the cutting member.

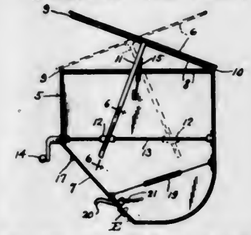
2,158,244
CLUTCH PLATE
Anthony Mistretta, Charles A. Blomberg, and Martin Willene, Rockford, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 28, 1936, Serial No. 102,858
6 Claims. (Cl. 192—68)

6. A clutch plate comprising, a hub assembly, a friction facing supporting disc mounted concentrically of said hub assembly and adapted to oscillate relative thereto, a plurality of compression springs arranged with their central axes in annular array about the axis of said hub assembly, means carried by said disc engaging both ends of each of said springs, and means carried by said hub assembly engaging both ends of each of said springs, the points of engagement between each of said means and said springs being along



diameters of said springs and for a distance along each side of each of said diameters.

2,158,245
COMBINED VENTILATOR, HEATER, AND WINDSHIELD DEFROSTER FOR AUTOMOBILE BODIES
Claude A. Moore, Cheyenne, Wyo.
Application July 7, 1937, Serial No. 152,436
2 Claims. (Cl. 98—2)

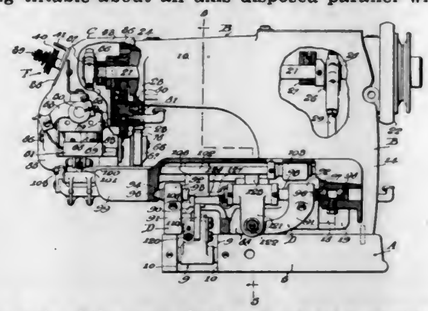


1. A valve for the body of automobiles, comprising a casing, a two-way ventilating shutter hinged to the casing, springs connecting the shutter to the casing, a slotted arm rigidly secured to the ventilating shutter and extending within the valve casing, a shaft threaded throughout its major portion rotatably mounted in the valve casing, a crank handle secured to the outer end of the shaft, a block threadedly disposed on the shaft and slidably connected to the arm of the ventilating shutter, said block being moved to one side of the center of the shaft to open the shutter in one direction and to the opposite side of the center of the shaft to open the shutter in the opposite direction, retractile springs anchored to the valve casing and connected to the ventilating shutter, an exit shutter pivotally secured to the valve casing, a retractile spring secured to the exit shutter and anchored to the valve casing, adjusting means carried by the exit shutter, a heat conduit connected to the valve casing, and a valve in the conduit.

2,158,246
BLIND STITCH SEWING MACHINE
Harley C. Moulton, Maplewood, and Charles W. Mueller, St. Louis, Mo., assignors to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application April 14, 1936, Serial No. 74,362
6 Claims. (Cl. 112—176)

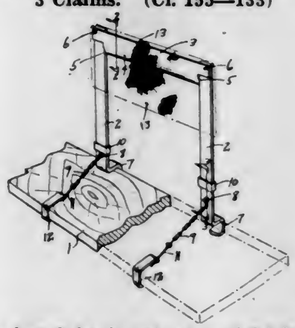
2. In a sewing machine, work feeding means, a main shaft disposed transversely of the direction

of feed of the work, complementary stitch forming means including a reciprocatory needle and a loop taker, a needle drive shaft disposed in right angular relation to the main shaft, means for imparting movement from the main shaft to the needle shaft, a work support extending beneath the stitch forming means, said work support being tiltable about an axis disposed parallel with



the axis of the main shaft and spaced a considerable distance in advance of the point at which the stitch forming occurs, and means for driving the loop taker from the main shaft including intermediate gearing serving to space the sewing zone a considerable distance below the main shaft whereby to provide a maximum of work clearance space.

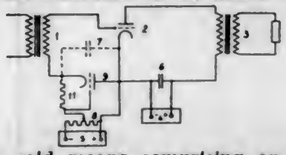
2,158,247
BENCH BACK REST
William V. Newport, Campbell, Ohio
Application June 21, 1938, Serial No. 214,864
3 Claims. (Cl. 155—133)



1. In a bench back rest, an upright frame comprising two parallel bars and a back portion, a curved depending portion formed on said back portion, the edges of which closely contact the inner edges of the said parallel bars, offset U-shaped portions on the lower ends of said parallel bars adapted to engage the rear edge of a bench, means for holding the said frame from rearward movement comprising clamps to fit over the front edge of a bench and connected to the said parallel bars by means of chains.

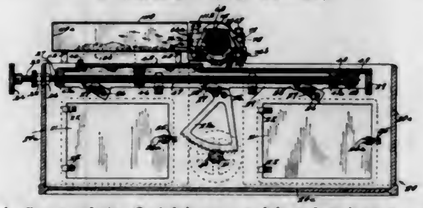
2,158,248
ELECTRICAL AMPLIFYING SYSTEM AND METHOD OF OPERATION
Johannes Jacques Numans, The Hague, Netherlands
Application September 11, 1934, Serial No. 743,610
In the Netherlands September 13, 1933
8 Claims. (Cl. 179—171)

1. An electrical amplifier including a thermionic amplifier tube having a control electrode, a biasing circuit comprising a source of biasing potential adapted to apply a negative biasing potential to said control electrode, and means associated with the biasing circuit and adapted to prevent an undue increase of the negative biasing potential which might otherwise be produced on the occurrence of grid current flowing to the control electrode of the thermionic amplifier tube through the resistance of its source of biasing



potential, said means comprising an auxiliary thermionic tube comprising a grid electrode and having its output circuit arranged in parallel to the source of biasing potential with its anode connected to the cathode of the thermionic tube, and auxiliary means for biasing the grid electrode of the auxiliary thermionic tube to impart to said auxiliary tube an electric voltage-current characteristic presenting a threshold discharge voltage, and a low resistance.

2,158,249
PLATE FINISHING MACHINE
Leonard G. Olander, Minneapolis, Minn., assignor to The Monomelt Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application March 6, 1937, Serial No. 129,408
7 Claims. (Cl. 90—18)

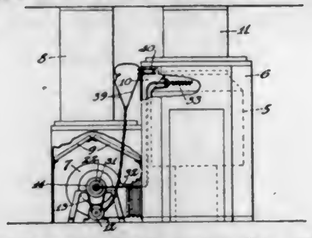


4. In a plate finishing machine having a cutter and a plate supporting member reciprocable past said cutter, the combination of a frame, a second member supporting said plate supporting member and having a surface disposed in a plane parallel to the direction of movement of said plate and swinging means for supporting said second member for raising and lowering the same to adjust it for different cuts on said plate and maintaining said surface parallel to said plane including a plurality of links spaced longitudinally of said member, said links being of equal length, pivots at one end of said links connecting the same to said frame and pivots at the other ends of said links connecting the same to said second member, said links being arranged in parallel relation and manually operated means for swinging one of said links whereby all must move in unison.

2,158,250
AIR CONDITIONING SYSTEM
Claude H. Peters, White Bear Lake, Minn.
Application January 17, 1938, Serial No. 185,273
8 Claims. (Cl. 236—10)

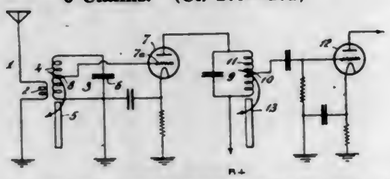
5. In an air conditioning system having a plenum chamber, electric motor adapted to operate at a substantially constant speed under a

widely variable load and a blower arranged to pass air through said chamber, the combination of a blower shaft, a pulley freely revoluble on said shaft and operatively connected to said motor, a friction drive for connecting said pulley to said shaft to actuate said blower at a multiplicity of



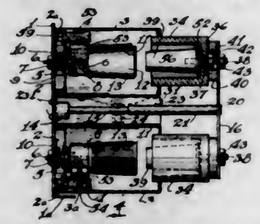
different speeds, heat responsive mechanism mounted on said shaft and having a controlling element mounted in said plenum chamber and means operatively connecting said mechanism to said drive to change the speed of said blower through said drive in proportion to changes in the temperature in the plenum chamber.

2,158,251
HIGH-FREQUENCY RADIO AMPLIFYING CIRCUITS
Wladimir J. Polydoroff, Wilmette, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application February 11, 1936, Serial No. 63,298
6 Claims. (Cl. 179—171)



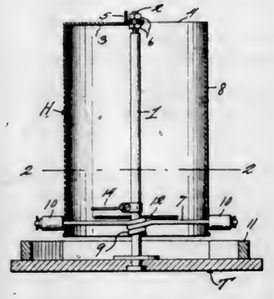
1. A high-frequency system including a resonant circuit and a vacuum tube having a grid, said resonant circuit including a fixed capacitor and a variable inductor having a winding and a high-frequency ferromagnetic core movable relatively thereto to vary the inductance of said winding and thereby tune said circuit over a range of frequencies, and means whereby a variable portion of the resonant voltage developed across said winding is applied to said grid, said portion depending upon the position of said core relative to said winding.

2,158,252
INDUCTIVE TUNING SYSTEM
Wladimir J. Polydoroff, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application April 22, 1933, Serial No. 667,368
15 Claims. (Cl. 250—40)



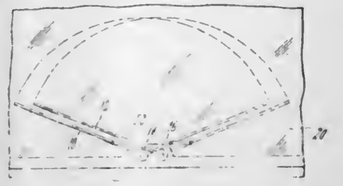
15. A tuning unit for a radio receiver, including a plurality of resonant circuits tunable over a range of frequencies by tuning means which simultaneously varies the effective value of the inductance in each of said circuits, electrical means for adjusting said circuits to a maximum frequency, magnetic means for adjusting said circuits to a minimum frequency and mechanical means for adjusting said circuits to a frequency intermediate said maximum and minimum frequencies.

2,158,253
HOG FEEDER
Walter C. Reynolds, Polo, Ill.
Application August 20, 1938, Serial No. 225,997
4 Claims. (Cl. 119—53.5)



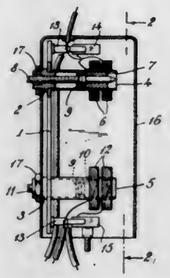
1. A hog feeder comprising a trough, a centrally positioned upstanding column carried by the trough, a hopper rotatably mounted upon the column for rotation therearound, the lower end portion of the hopper being open, rods intersecting the lower portion of the hopper and extending outwardly therebeyond to provide means whereby the rooting of the animals in eating the feed within the trough will rotate the hopper, the central portions of the rods being so constructed and arranged to surround the column whereby the rods hold the lower portion of the hopper against swaying, a disk carried by the lower portion of the column and freely mounted thereon, said disk being of a radius less than the internal radius of the hopper.

2,158,254
WINDSHIELD WIPER
Stig E. Rosenberg, Brockton, Mass.
Application November 2, 1936, Serial No. 108,765
2 Claims. (Cl. 15—255)



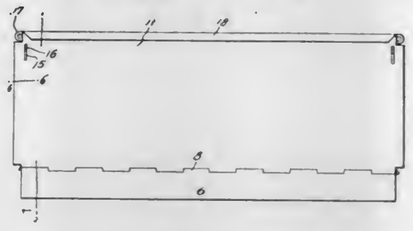
1. A windshield wiper comprising a pair of wiping elements separately pivoted at spaced pivot points to swing across a portion of the surface of one face of a windshield, said pivot points being close to each other, and means connecting said elements for simultaneous movement along different paths but over approximately the same area of the surface.

2,158,255
PERMEABILITY-TUNED INTERMEDIATE-FREQUENCY TRANSFORMER
William A. Schaper, Oak Park, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application November 26, 1937, Serial No. 176,496
6 Claims. (Cl. 178—44)



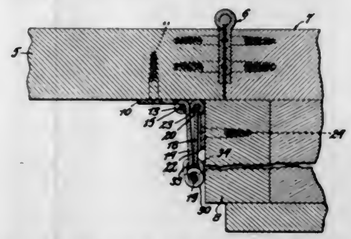
1. A selective high-frequency coupling device including in combination input and output resonant circuits each having an inductor and a fixed capacitor and intended for operation at a given frequency, means for adjusting the inductance of each of said circuits to compensate for changes in the capacitance thereof due to conditions of use to thereby maintain resonance at said frequency, said circuits being so coupled as to maintain the over-all gain of said coupling device substantially constant regardless of said inductance adjustment.

2,158,256
CRATE
Irwin E. Schopmeyer, Clermont, Fla., assignor of one-half to Edgar M. Dilley, Clermont, Fla.
Application January 11, 1938, Serial No. 184,471
1 Claim. (Cl. 220—6)



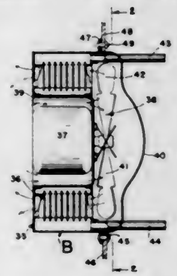
A foldable crate comprising a bottom section including short upstanding end and side walls, end and side plates hinged on the end and side walls, rolled portions formed on the end plates, said side plates having portions thereof angularly disposed to form channels to receive the rolled portions and provided with keeper slots adjacent thereto, latches pivoted on the end plates to enter said keeper slots to releasably retain the rolled portions in the channels, a partition hinged on the bottom section and having rolled portions and provided with slots adjacent thereto, angle iron brackets secured on the side plates and entering the last-named slots and securing the rolled portions of the partition therein, angle iron latches pivoted on the side plates and engageable with the rolled portions of the partition to retain said latter-named rolled portions in the angle iron brackets, and stops on the side plates for limiting the pivotal movement of the angle iron latches.

2,158,257
CHECK FOR DOORS AND THE LIKE
Robert E. Sheehe, Buffalo, N. Y.
Application November 19, 1937, Serial No. 175,477
6 Claims. (Cl. 16—82)



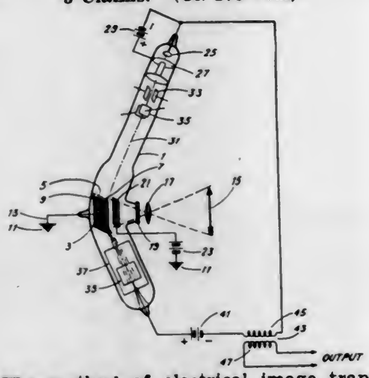
1. A positive check for two relatively movable members, comprising a flat, rectangular hinge leaf secured to one of said members, a flat, rectangular hinge leaf secured to the other of said members and at least two additional hinge leaves pivotally connected to one another and pivotally connected to said secured hinge leaves, said hinge leaves being pivotally connected in tandem along their corresponding long edges and the pivotal connections between each of said hinge leaves being so arranged that in the closed position of said movable member, said additional hinge leaves are capable of assuming a position substantially flat against one another and substantially flat against one of said secured leaves, the axes of said pivotal connections being parallel with the major axes of said hinge leaves.

2,158,258
HEATING DEVICE
Chester J. Sucharski, South Milwaukee, and Arthur W. Lees, Racine, Wis.
Application April 8, 1936, Serial No. 73,290
2 Claims. (Cl. 257—137)



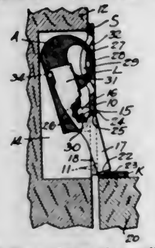
1. In a vehicle heater, a shell having a central air intake opening, core units extending through said shell, said core units forming air passageways, an electric motor arranged in the central opening of the shell and spaced from the wall of said openings to form an air intake passage-way therewith, a fan driven by said motor, a casing enclosing said fan, the fan including blades having the tips thereof bent in an opposite direction from the body portions thereof, the body portions of the blades being disposed in rear of the central opening, and the tips of the blades being disposed in rear of the core units.

2,158,259
TELEVISION APPARATUS
Kalman Tihanyi, Budapest, Hungary, assignor to Radio Corporation of America, a corporation of Delaware
Original application June 10, 1929, Serial No. 369,598. Divided and this application March 8, 1935, Serial No. 9,958. In Germany June 11, 1928
3 Claims. (Cl. 178—7.2)



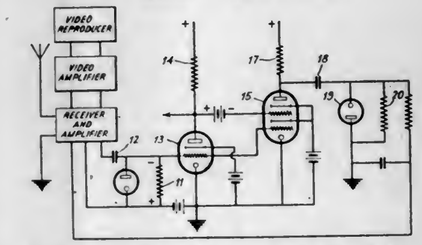
1. The method of electrical image transmission which comprises projecting a light image upon a photo-sensitive mosaic, producing over the entire area of the photo-sensitive mosaic discrete electric charges proportional to the intensity of light received from the elemental area of the subject whose light image is projected thereupon, scanning the photo-sensitive mosaic with an electron beam impinging from the same side as the light image, and controlling the intensity of flow of electrical energy in accordance with the charges produced by light falling upon the photo-sensitive mosaic.

2,158,260
WINDOW LOCK
Erwin F. Stillman, Lompoc, Calif.
Application April 4, 1938, Serial No. 199,846
6 Claims. (Cl. 292—336)



1. A device of the class described comprising a locking member; means pivotally mounting said member about a horizontal axis on the upper sash of a double-hung window, to normally tend to assume a locking position with respect to the lower sash thereof, under the action of gravity; a manually operable actuator; means pivotally mounting said actuator about a horizontal axis on the upper sash to tend to remain in either a retaining or releasing position under the action of gravity; means providing an operative connection between the locking member and actuator, responsive to movement of the latter to retaining position, to move the locking member to, and retain it in unlocking position against its tendency to occupy locking position; means co-actable with the actuator to restore the latter to its releasing position in response to opening of the window, so as to free the locking member for movement under the action of gravity, to its locking position, upon closing the window; and means coacting with the locking member to provide a rigid abutment on the upper sash, operable to receive any stress imposed on the locking member resulting from an attempt to open the window when locked, so as to relieve the pivotal mounting of the locking member of such stress.

2,158,261
TELEVISION RECEIVER OPERATING LEVEL CONTROL
Rudolf Urtel, Robert Andrieu, and Max Geiger, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application October 28, 1936, Serial No. 107,930
In Germany November 2, 1935
8 Claims. (Cl. 178—7.3)

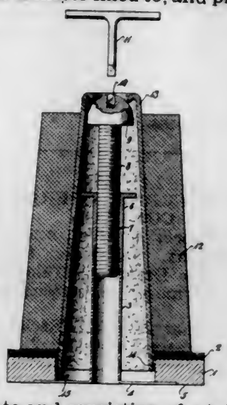


7. In a television system in which video and synchronizing signals are transmitted as a composite signal, means for receiving said composite signal, means for amplifying said composite signal, means for rectifying a portion of said received composite signal, means for developing a control potential from said rectified signal, a first thermionic vacuum tube having anode, cathode and at least one control electrode, means for impressing said control potential onto a control electrode of the thermionic tube, a second thermionic tube having anode, cathode and a plurality of control electrodes, means connecting one of the control electrodes of said latter tube to a control electrode of the first tube, means connecting another control electrode of the second thermionic tube to the output circuit of the first tube, means for rectifying the output current of the second thermionic tube, means for developing a control potential from the rectified current bearing a definite relationship to picture black, and means for controlling the operating level of the receiver amplifier means in accordance with said latter developed control potential.

2,158,262
DEVICE FOR SUPPORTING PACKAGES OF STRAND MATERIALS
Barend van den Bergh, Ginneken, Netherlands, assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application August 22, 1938, Serial No. 226,166
In Germany September 3, 1937
1 Claim. (Cl. 242—130)

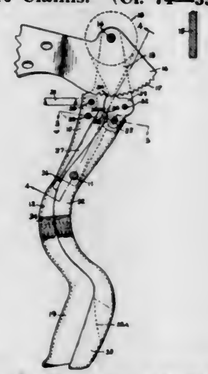
A device for supporting an over-end delivery cone of strand material comprising a cone core bent inwardly at its upper end, a rigid annular base plate having an opening therein to receive

a projecting lower end of the cone core, a resilient plush covering on the upper surface of said base plate adapted to partially support a cone of strand material wound on said core, an adjustable upright member fixed to, and projecting from



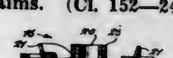
said base plate and consisting of a tubular column threaded in its upper portion having a set screw therein, said set screw having an enlarged head for partially supporting the core from its top whereby the position of the cone with respect to the base may be regulated at will.

2,158,263
SAFETY EMERGENCY BRAKE LEVER
Floyd D. Wenn, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York
Application May 28, 1937, Serial No. 145,209
10 Claims. (Cl. 74—537)



1. A safety brake lever comprising a thigh section having one end region pivotally mounted to rock about a main fulcrum and which lever further comprises a shank section that is pivoted by a knuckle joint to the opposite end region of said thigh section and providing for a length portion that extends radially outward from such joint, sector plate means, clutch means carried by the thigh section and serving to releasably grip the sector plate means, manipulative trip lever means pivoted intermediate its ends to the aforesaid brake lever and having one such end operatively connected to release the grip of said clutch means, and automatic retaining means actuated in unison with the shank section serving to positively lock the trip lever means against manipulative movement when the clutch grippingly engages the sector plate means.

2,158,264
ANTISKID DEVICE
William L. Wettlaufer, Buffalo, N. Y.
Application January 20, 1938, Serial No. 185,919
8 Claims. (Cl. 152—245)

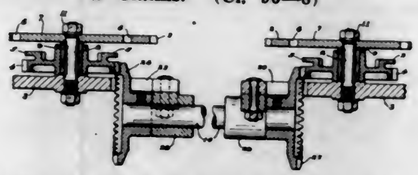


1. In an anti-skid device, the combination with a traction providing element, said element comprising a sheet metal body having diagonally extending flanges which provide surface gripping edges, said flanges having holes in their bases, of means for securing said element to the tire of a vehicle wheel, said means passing through said holes and around the ends of said flanges so that the joints thus provided are protected.

2,158,265
LEATHER PULP AND PRODUCTS MADE THEREFROM
John Arthur Wilson, Milwaukee, Wis., assignor to Wilson Leather Company, a corporation of Delaware
No Drawing. Application February 2, 1934, Serial No. 709,481
11 Claims. (Cl. 92—3)

1. Pulp having a fibrous constituent of animal origin consisting essentially of separated fibrils of animal hide or skin.

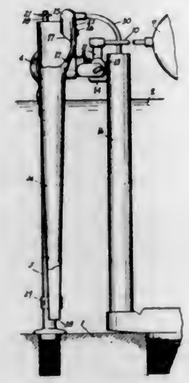
2,158,266
BRAIDING MACHINE
John G. Aldrich, Providence, R. I., assignor to New England Butt Company, Providence, R. I., a corporation of Rhode Island
Application September 23, 1937, Serial No. 165,285
2 Claims. (Cl. 96—8)



1. In a braiding machine having a plurality of horn gears arranged in intermeshing relation with each other and each provided with spur teeth, driving means for one of said horn gears comprising intermeshing spur and crown gears, said crown gear being provided with teeth diminishing in height outwardly radially thereof and having inclined side faces extending outwardly from its point of maximum height, said crown gear being located in constantly intermeshing relation with the teeth of said spur gear and having the inclined side faces of its radial teeth in substantial contact with the teeth of said spur gear throughout their common path of travel.

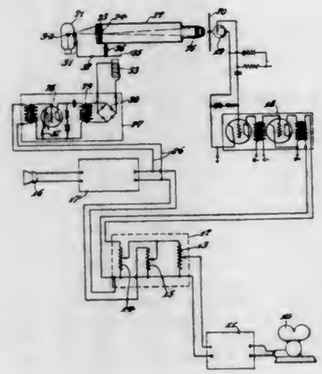
2,158,267
BALL COCK
Alfred C. Arbogast, Elkhart, Ind., assignor to Northern Indiana Brass Company, Elkhart, Ind.
Application December 6, 1937, Serial No. 178,279
5 Claims. (Cl. 137—104)

5. In a valve assembly for flushing tanks, the combination of an inlet valve provided with a downwardly directed discharge, and an open ended discharge tube to the upper end of which said discharge delivers, the delivery opening in the lower end of said discharge tube being restricted



so that it is less than the normal delivery capacity of the valve.

2,158,268
VOICE AND MUSIC MIXER FOR USE IN SOUND RECORDING
Judd O. Baker, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1936, Serial No. 77,116
3 Claims. (Cl. 179—100.3)

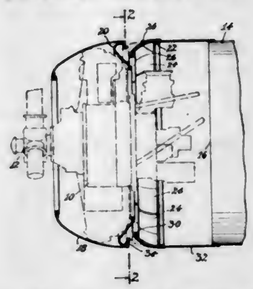


1. A film phonograph comprising a light source, an optical system for directing light from said source upon a film sound record, photoelectric means in cooperative relation to the said optical system, a volume control comprising an electrically actuated shutter between said light source and said optical system, and amplifying means and rectifying means controlling said shutter inversely in accordance with sound from another source.

2,158,269
ELECTROLYTIC PROCESS FOR THE MANUFACTURE OF LITHARGE
Reginald G. Bowman, Gary, and William J. Knox, Jr., Hammond, Ind., assignors to Anaconda Lead Products Company, New York, N. Y., a corporation of Delaware
Application October 30, 1935, Serial No. 47,340
13 Claims. (Cl. 204—61)

1. The method of producing litharge which comprises passing an electric current through a cell comprising a lead anode, an anolyte comprising a substance capable of serving upon electrolysis as a solvent for lead, a diaphragm, a catholyte comprising a reagent capable of precipitating litharge, and an insoluble cathode, and controlling the progress of reactions taking place within the cell during electrolysis by maintaining the concentration of dissolved lead in the anolyte between about 0.1% and 1.0%.

2,158,270
CONTROLLABLE COWLING
Kenneth A. Browne, Westwood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application October 16, 1937, Serial No. 169,355
3 Claims. (Cl. 123—171)

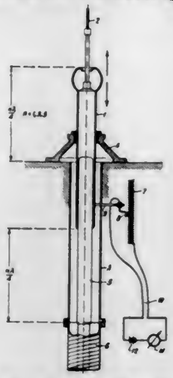


2. In aircraft, an engine including streamlined forward and rearward annular cowls one embracing the engine, axially spaced apart to define an annular gap therebetween, flexible segmental flaps fixed to one said cowl and extending across said gap, and stops limiting the outward movement of said flaps to a position substantially flush with the cowl profile, resilient means urging said flaps radially inward of the cowl profile to form an enlarged air exit slot between said cowls, said flaps being movable outwardly to close the exit slot under the influence of a greater pressure within than without the cowling, said means comprising beads formed at the free edges of said flaps and a coil spring threaded through said beads.

2,158,271
SHORT WAVE ANTENNA
Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany
Application October 9, 1937, Serial No. 168,120
In Germany October 13, 1936
4 Claims. (Cl. 250—33)

1. A short wave antenna system comprising a

variable length aerial conductor adjustable to have an effective free length equal to an odd multiple including unity of one-quarter of the length of the operating wave, a feeder, and a line having a length equal to the effective free length of said aerial conductor connecting said feeder to



said aerial conductor, said conductor being slidable over said line, whereby change of length of said aerial conductor simultaneously changes the length of said line an equal amount, the surge impedance of said line being intermediate the value of the surge impedance of said feeder and the surge impedance of said aerial conductor.

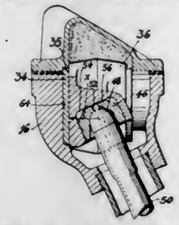
2,158,272

ROCKER ARM BEARING

Roland Chilton, Ridgewood, N. J., assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J., a corporation of New York

Application February 10, 1937, Serial No. 124,964

8 Claims. (Cl. 308—21)



1. In combination, a journal, a rocker arm borne thereon for oscillation, a push rod acting on an end of said rocker arm and inclined to the plane of movement thereof tending to twist the arm out of its plane of movement, a thrust face on said arm normal to the journal axis and at said rocker end, and a housing carrying said journal having a thrust element coacting with said thrust face.

2,158,273

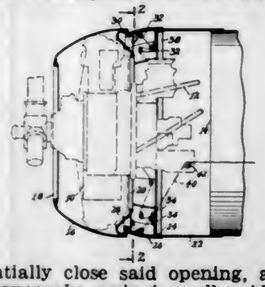
CONTROLLABLE COWLING

Roland Chilton, Ridgewood, N. J., assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J., a corporation of New York

Application October 16, 1937, Serial No. 169,349

3 Claims. (Cl. 123—171)

1. In combination, an air-cooled radial engine, axially spaced aligned streamlined annular cowls, one embracing the engine, defining therebetween an annular air exit opening, a plurality of segmental spring flaps fixed about the periphery of one cowl adapted in their relaxed position



to substantially close said opening, and means for simultaneously springing all said flaps inwardly to enlarge the effective area of said opening.

2,158,274

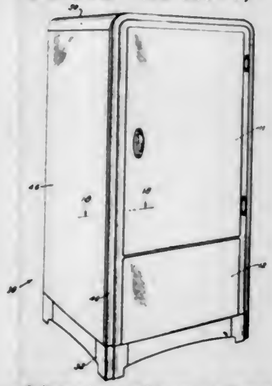
REFRIGERATOR

William D. Collins, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application February 23, 1935, Serial No. 7,733

Renewed October 12, 1938

4 Claims. (Cl. 220—9)



3. In a refrigerator cabinet, a front panel of sheet metal forming the side and top front edges of the cabinet and having inward flanges around its edges and formed to provide recesses, side panels having inward L-shaped flanges along their forward and top edges, and a top panel forming the upper side edges of the cabinet and having an inward L-shaped flange at its forward edge and being inwardly flanged at its side edges, said flanges on the top and side panels passing into said recesses provided by the front panel and serving to lock the forward edges of the said top and side panels beneath the edge of said front panel and lock the top edges of said side panels beneath the side edges of said top panel.

2,158,275

HIGH LEAKAGE TRANSFORMER

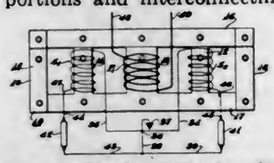
James A. Comstock, Cleveland, Ohio, assignor to The Acme Electric & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Original application August 31, 1935, Serial No. 38,756. Divided and this application December 26, 1935, Serial No. 56,159

8 Claims. (Cl. 171—119)

1. An external shunt transformer comprising,

in combination, magnetic core means having two spaced longitudinal core portions interconnected by two spaced secondary core portions, a secondary winding surrounding each of said secondary core portions, a primary winding disposed intermediate the secondary windings and arranged to cause primary flux to flow longitudinally of the longitudinal core portions and through the secondary core portions, each of said spaced longitudinal core portions extending outwardly from, and constituting a set of spaced ends integral with said longitudinal core portions upon opposite sides of the secondary core portions, magnetic shunt means shunting one of said secondary core portions and interconnecting a set of



one of said spaced ends of the longitudinal core portions with an air gap therebetween, second magnetic shunt means shunting the other of said secondary core portions and interconnecting the other set of said spaced ends of the longitudinal core portions with an air gap therebetween, the arrangement of the magnetic core means, the primary and secondary windings, and the magnetic shunt means being such that the said windings are grouped upon the magnetic core means internally of the magnetic shunt means, to minimize the leakage reactance of the transformer and to cause the short circuit current of either secondary winding to be substantially the same as the short circuit current of both of the secondary windings in series.

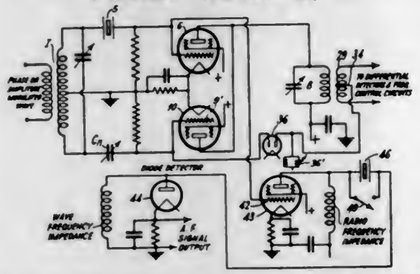
2,158,276

RECEIVER FOR AMPLITUDE OR PHASE MODULATED WAVES

Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application November 2, 1935, Serial No. 47,933, now Patent No. 2,085,008, dated June 29, 1937. Divided and this application April 21, 1937, Serial No. 138,116

8 Claims. (Cl. 250—20)



1. In a demodulating system, a plurality of filter circuits each having an input and an output, the characteristic of each of said filter circuits being predominantly reactive in the same sense on both sides of the frequency to which the filter circuit is resonant, means for applying an amplitude modulated wave to the input of one of said filter circuits, means connecting the output of said one filter circuit to the input of the other filter circuit, and a utilization circuit connected to the output of said last filter circuit.

2,158,277

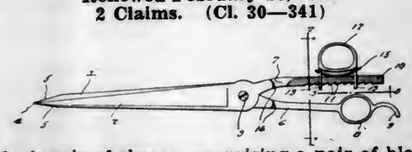
SHEARS

Vern Harlan Dolph, Fort Lupton, Colo.

Application November 2, 1937, Serial No. 172,445

Renewed February 23, 1939

2 Claims. (Cl. 30—341)



1. A pair of shears comprising a pair of blades pivotally connected at one end, operating handles extending from the pivoted ends of the blades, teeth on one of the handles, a thumb ring mounted for longitudinal sliding adjustment on said one handle and including loops encircling same, and a spring mounted between the thumb ring and said one handle and having its end portions engaged in the loops for engaging said loops with the teeth for releasably securing the thumb ring in adjusted position.

2,158,278

PROCESS FOR TREATING METAL

Mendel Donchi, Newark, N. J., assignor to Cooper & Cooper, Inc., Brooklyn, N. Y., a corporation of New York

No Drawing. Application December 10, 1934, Serial No. 756,831

2 Claims. (Cl. 148—16)

2. A method of the character described consisting in passing moisture free air through alcohol to saturate the air with said alcohol, passing a strip of steel through the muffle of a furnace and passing the alcohol saturated air into the muffle.

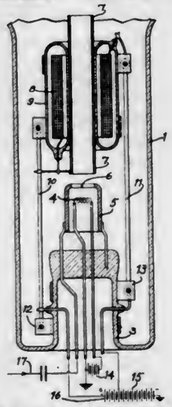
2,158,279

CATHODE RAY TUBE

Philo T. Farnsworth, San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware

Application June 1, 1936, Serial No. 82,887

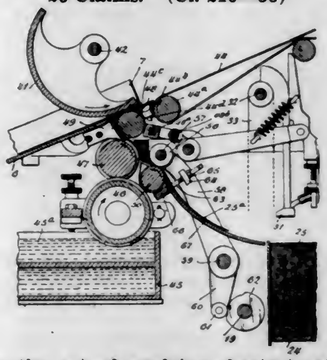
2 Claims. (Cl. 250—161)



1. A cathode ray tube comprising an enclosing vessel, a cathode adapted to emit a stream of electrons and supported at one end of said vessel, a fluorescent screen at the other end of said vessel, an anode having a central beam canal opening at one end toward said cathode and at the other end toward said screen, an annular hollow gas-tight enclosure surrounding said anode, means

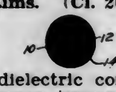
for supporting said enclosure from said vessel, and an electromagnetic coil within said enclosure and also surrounding said anode.

2,158,280
MACHINE FOR FEEDING SHEETS, LABELS, AND THE LIKE
Paul W. Fleischer, Weehawken, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application January 15, 1935, Serial No. 1,838
26 Claims. (Cl. 216—55)



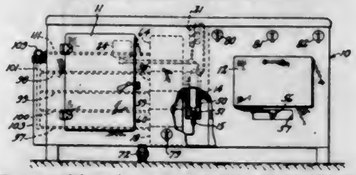
1. In the art of applying sheets to elements, the method which comprises independently advancing a sheet at a controlled velocity, progressively applying an adhesive coating to said sheet in a direction from the leading edge toward the rear edge thereof, independently advancing an element at a greater velocity than the velocity of said sheet, applying an advance edge portion of said sheet adhesively to said advancing element, discontinuing the independent advancing of said sheet substantially in coincidence with the adhesive application of the advance edge portion of said sheet to said advancing element and permitting the continued movement of said sheet to be subsequently controlled by the advancing element, and progressively applying pressure to said sheet to complete the application thereof to said element.

2,158,281
FIREPROOF CABLE COMPOUND
James G. Ford, Forest Hills, and Charles F. Hill, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 15, 1935, Serial No. 11,258
4 Claims. (Cl. 260—4)



4. A fireproof dielectric compound of plastic character at ordinary temperatures comprising chlorinated naphthalene containing 50% to 65% chlorine and a chlorinated diphenyl compound containing 50% to 65% chlorine in admixture with a lesser quantity of polymerized styrene one of tricresyl phosphate and heavy coal tar distillate, and a rubber resin from the group consisting of chlorinated rubber, the reaction product between rubber and stannic chloride, ferric chloride, or chlorstannic acid and gutta percha, the chlorine content being not less than 50% by weight, said compound being plastic within the range from about —20° C. to about 100° C. so that in a cable impregnated therewith the compound remains sufficiently flexible at the lower temperature to be bent without injury and sufficiently plastic at the higher temperature as not to run out of the cable.

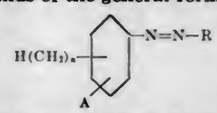
2,158,282
LIQUID FUEL BURNER FOR ABSORPTION REFRIGERATION APPARATUS
Gunnar Grubb, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 25, 1936, Serial No. 97,724
In Germany September 17, 1935
13 Claims. (Cl. 62—5)



1. In combination, apparatus including a part adapted to be heated, a liquid fuel burner for heating said part, a second liquid fuel burner, supply vessels adapted to contain liquid fuel, means including conduits for conducting fuel from each of said supply vessels to one of said burners, and means including a compressed air storage vessel connected to said supply vessels to provide compressed air in the latter for causing fuel to flow therefrom to said burners, structure connected to said supply vessels having a single opening for filling said supply vessels with liquid uel, a removable member for closing said opening, and a device cooperating with said structure whereby compressed air in said storage vessel is discharged to the atmosphere before said member may be removed to fill said supply vessels with liquid fuel.

2,158,283
DYESTUFFS
Norman Hulton Haddock and Colin Henry Lumsden, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Original application June 25, 1935, Serial No. 28,352. Divided and this application July 21, 1936, Serial No. 91,773. In Great Britain June 28, 1934
10 Claims. (Cl. 260—163)

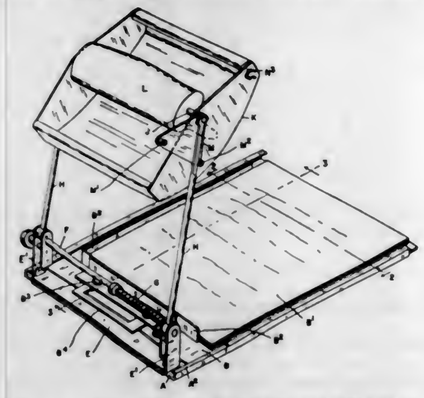
1. Compounds of the general formula:



in which R stands for a coupling component devoid of long alkyl chains chosen from the group consisting of naphthol-sulfonic acids, naphthylamine-sulfonic acids, amino-naphthol-sulfonic acids, acyl-amino-naphthol-sulfonic acids, and pyrazolone-sulfonic acids, A stands for hydrogen or methyl, and *n* for a number between 10 and 20 inclusive.

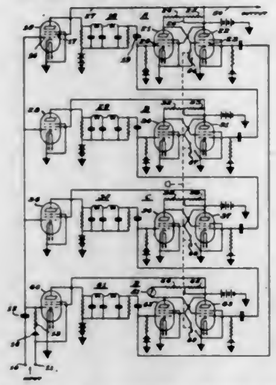
2,158,284
PRINTING MACHINE
Joseph E. Hagstrom, Adrian, Mich., assignor, by mesne assignments, to Globe Corporation, Chicago, Ill., a corporation of Illinois
Application October 8, 1937, Serial No. 167,967
Renewed March 25, 1939
6 Claims. (Cl. 101—126)

1. A printing machine, comprising, in combination with a base plate, a pivotally supported frame positioned at one end thereof and adapted to be lowered thereover, a sheet-supporting plate slidably positioned above the top surface of said base plate, means for yieldably opposing the lengthwise movement of said sheet-supporting plate relatively to said base plate, and a curvedly surfaced impression member rockably supported



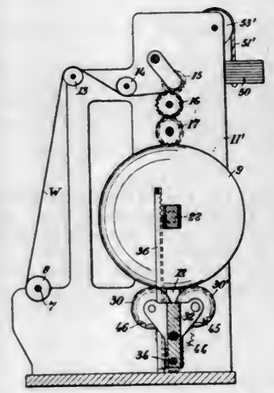
from the overengaging free end of said frame, adapted, when the latter is lowered over the base plate and the sheet-supporting plate, to be rockingly impressed against the exposed topmost sheet, thereby effecting the lengthwise movement of the sheet-supporting plate relatively to the base plate against the draw of the yielding opposing means connected therewith.

2,158,285
IMPULSE MEASURING CIRCUIT
Winfield R. Koch, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 22, 1937, Serial No. 149,620
8 Claims. (Cl. 250—27)



1. An impulse measuring system including an input device provided with an output circuit, a delay network coupled to said output circuit, a pair of electron discharge devices coupled to said network and cross-connected to operate one after the other, and means responsive to said successive operation for closing said input device.

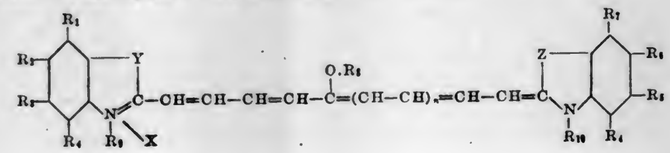
2,158,286
WEB CUTTING AND REWINDING MACHINE
Wilhelm Köhler, Darmstadt, Germany, assignor to Goebel Aktien-Gesellschaft, Darmstadt, Germany
Application November 20, 1937, Serial No. 175,573
In Germany November 23, 1936
10 Claims. (Cl. 242—66)



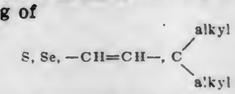
1. Re-winding machine of the type set forth comprising a machine frame, a deflecting roll stationarily mounted therein, a winding shaft carrying the rewound coil and slidably mounted in the machine frame underneath the deflecting roll so as to downwardly recede as the rewound coil grows larger in diameter, means for revolving the rewound coil, and lifting means for keeping the latter in cooperative engagement with the said deflecting roll.

2,158,287
SENSITIZING SILVER HALIDE EMULSION
Walter König, Dresden, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application July 19, 1934, Serial No. 736,131. In Germany July 21, 1933
16 Claims. (Cl. 260—240)

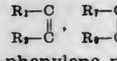
8. A polymethine dye selected from the class consisting of those corresponding with the general formula:



in which:
Y, Z stand for a member selected from the group consisting of

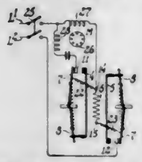


R_4 stands for a member of the group consisting of hydrogen and halogen,
R_1, R_2, R_3, R_5, R_6 stand for a member selected from the group consisting of H, alkyl, alkoxy and aryl of the benzene series.



stand for an o-phenylene radical,
R_9, R_{10} stand for alkyl,
R_8 stands for a member selected from the group consisting of aliphatic acid radicals and benzoyl.
X stands for an anion capable of precipitating the dye,
n stands for one from the class consisting of 0, 1 and 2, and the isomers in which Y and Z are —CH=CH— and in which at least one nucleus is linked to the methine chain in 4-position.

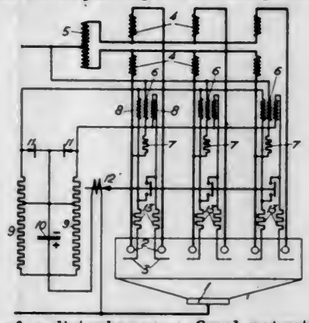
2,158,288
THERMALLY CONTROLLED SWITCH
Clarence W. Kuhn, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 11, 1936, Serial No. 78,958
5 Claims. (Cl. 172—279)



1. The combination with an alternating current motor having main and auxiliary energizing windings, of a pair of normally closed switches, one for controlling power connections for said motor and the other for establishing an energizing circuit for said auxiliary winding through the medium of said former switch, an operating thermostat associated with each of said switches, a main electric heater traversed by the current supplied to said motor and arranged in heat transferring relation to said thermostats and an auxiliary electric heater traversed by the current supplied to said auxiliary winding and arranged in heat transferring relation to the operating thermostat of said second mentioned switch.

2,158,289
MEANS FOR SUPPRESSING DISTURBANCES IN IONIC VALVES BY GRID CONTROL
Uno Lamm, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application October 22, 1935, Serial No. 46,112
In Sweden October 22, 1934
6 Claims. (Cl. 175—363)

1. An ionic valve with means for suppressing disturbances therein by grid-control, comprising a cathode, anodes, anode grids, sources of alternating current voltage connected between said grids and a point having in normal operation an effective potential the value of which is independent of the cathode and is substantially determined by the mean potential of the grids, and means for imparting to the said point, on the

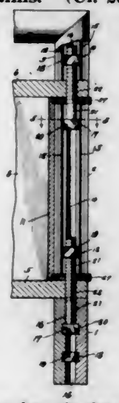


occasion of a disturbance, a fixed potential substantially negative with respect to the cathode.

2,158,290
PROCESS OF PREPARING METHYL-VINYL-KETONE
Heinrich Lange and Otto Horn, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application September 23, 1937, Serial No. 165,340. In Germany September 26, 1936
5 Claims. (Cl. 202—55)

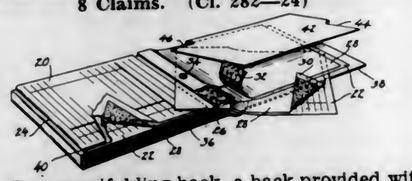
1. The process which comprises conducting an aliphatic unsaturated gaseous hydrocarbon of at least three carbon atoms into an aqueous solution of vinyl-methyl-ketone until two layers are formed and separating the layer containing the vinyl-methyl-ketone from the aqueous layer.

2,158,291
POST CONSTRUCTION
Alvin B. Lank, Washington, D. C.
Application January 10, 1938, Serial No. 184,318
6 Claims. (Cl. 287—25)



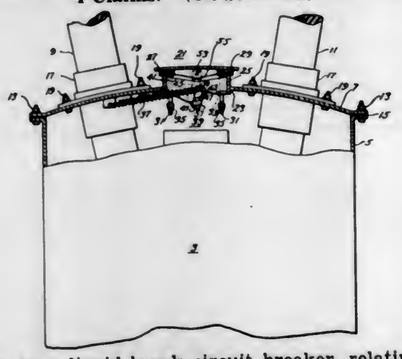
1. In a wooden knock-down structure, a post having a longitudinal bore and an internal seat intersecting the bore, a connecting member including a bolt located in the bore, the bolt being extended outwardly beyond one end of the post, the connecting member comprising as constituent parts, a head on the bolt and a nut threaded on the bolt, one of said constituent parts being held in the seat against rotation, the post being divided longitudinally to permit said one of the constituent parts of the connecting member to be mounted in the seat, and to divide the post into longitudinal sections, and means for holding the sections of the post together.

2,158,292
MANIFOLDING BOOK
Albert R. Lawson, Hamilton, Ontario, Canada, assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada
Application May 29, 1936, Serial No. 82,577
8 Claims. (Cl. 282—24)



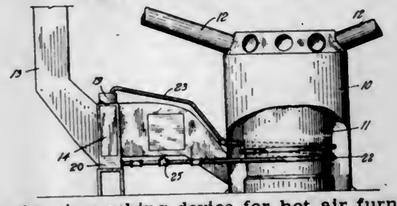
1. In a manifolding book, a back provided with a leaf supporting pivot stud and a front cover provided with a flap substantially coextensive with said cover secured at one end to said stud, forming with the front cover a side opening pocket, a plurality of superimposed manifolding sets each including a plurality of leaves, each set having at least one of its leaves pivotally mounted upon said stud for swingable movement thereabout to a position within the pocket formed between the front cover and its side flap.

2,158,293
PRESSURE RELIEF MEANS FOR OIL CIRCUIT BREAKER TANKS
Harry J. Lingal, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 9, 1937, Serial No. 168,215
4 Claims. (Cl. 200—150)



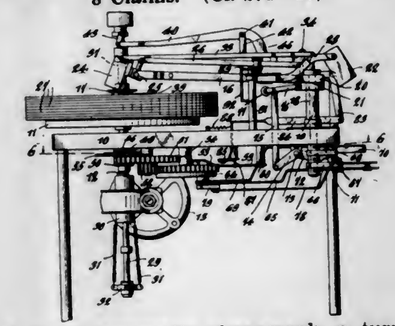
1. In a liquid break circuit breaker, relatively movable contact means, a tank for enclosing said contact means containing a body of insulating liquid, said tank having a pressure relief opening above the level of the liquid, a closure for said opening movable from a closed position closing said opening to an open position for relieving pressure developed within said tank, means disposed inside of said tank for biasing said closure to closed position with a predetermined and substantially constant force throughout the range of movement of said closure, said means comprising a lever pivoted intermediate its ends on a fixed support in said tank directly beneath said opening, a spring in said tank anchored at one end and connected at its other end to one end of said lever above the pivot axis of said lever, and a link inside said tank pivotally connecting the other end of said lever to said closure, the points of connection of said link to said closure and to said lever being disposed in a line which is relatively close to the pivot axis of said lever when said closure is in closed position.

2,158,294
AIR CONDITIONER
John E. Long, Edgewater, Colo., assignor of one-third to William H. Robinson, Sr., and one-third to Paul E. Haskin, both of Arvada, Colo.
Application August 24, 1936, Serial No. 97,619
Renewed October 4, 1938
6 Claims. (Cl. 126—113)



1. An air washing device for hot air furnaces comprising: a vertically positioned filter medium; a supply reservoir at the top of said medium; a receiving reservoir at the bottom of said medium; and a pipe coil in said furnace in circuit between said lower and upper reservoirs so as to provide a thermosyphonic circulation of water therebetween.

2,158,295
AUTOMATIC PHONOGRAPH
John R. Mitchell, Dallas, Tex., assignor, by mesne assignments, to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation of Ohio
Application August 24, 1936, Serial No. 97,497
8 Claims. (Cl. 274—10)



5. In an automatic phonograph, a turntable adapted to support a stack of records, a tone arm, a depressible, yieldingly-suspended spindle normally extending through the records of the stack, a laterally-swinging record-discharge arm having an axially-shiftable pin therein constituting a separable continuation of said spindle and adapted for engagement therewith to depress it from the top record and bring said pin into register with the axial opening of such top record, a vertically-swinging lever applied to said arm and connected at one end to said pin for controlling its raising and lowering movements, means engageable with said lever for actuating the same

during the laterally-swinging movements of the discharge arm to raise and lower said pin at predetermined times, and means in the lateral path of and acting upon the other end of the vertically swinging lever for releasably latching said lever in its raised position to hold the pin clear of the record-stack after the discharge of the record beyond the stack and during the return of the discharge arm to its initial position over the stack.

2,158,296

CONDENSATION PRODUCTS OF THE PERYLENE SERIES

Heinrich Neresheimer and Anton Vilsmeier, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 7, 1937, Serial No. 152,380. In Germany July 7, 1936
10 Claims. (Cl. 260—353)

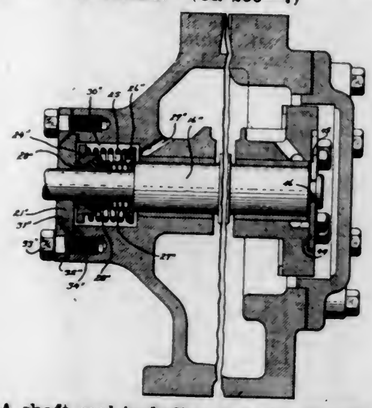
1. A process of producing a condensation product of the perylene series which comprises heating a compound of the perylene series having at least one group selected from the class consisting of the hydroxy and mercapto groups, with a compound containing at least 6 carbon atoms and being selected from the class consisting of aliphatic and cycloaliphatic unsaturated hydrocarbons, of aliphatic and cycloaliphatic alcohols, esters, amines, mercaptans, ethers and thioethers, in the presence of an acid condensing agent.

2,158,297

SEAL FOR REFRIGERATING APPARATUS

Edward B. Newill and Alex A. McCormack, Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation, a corporation of Delaware

Application March 31, 1933, Serial No. 663,815
4 Claims. (Cl. 286—7)



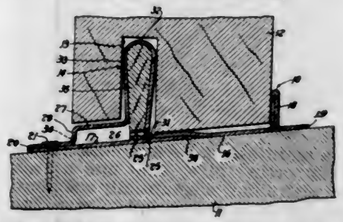
1. A shaft seal including a wall member having a shaft opening therein, a shaft member passing through said shaft opening, one of said members being provided with a sealing surface, a sealing means for sealing the shaft opening including a ring means having a metal sealing surface for making sealing engagement with the sealing surface of one of said members, said ring means having a recess formed therein and a resilient rubber-like packing material within said recess, said packing material having a sealing surface capable of projecting from the recess into sealing engagement with the sealing surface of one of said members before the metal sealing surface can make sealing engagement with the sealing surface of one of said members, and yielding means for compressing the rubber-like packing material into said recess and for holding both the sealing surface of the packing material and the metal sealing surface in sealing engagement with the sealing surface on one of said members.

2,158,298

WEATHERSTRIPPING

Philip R. Oftedal and Donald G. Kingsley, Chicago, Ill.

Application August 13, 1937, Serial No. 158,891
2 Claims. (Cl. 20—69)



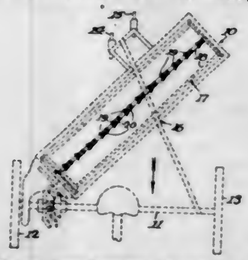
1. A sill weatherstrip of the character described comprising an elongated strip of sheet metal bent to form a longitudinal, upstanding sealing rib with the strip on opposite sides of the rib extending from the base of the rib in substantially parallel vertically spaced planes, the lower extending portion forming a base wall adapted to be located beneath the inner edge of a sash and having an upstanding flange formed thereon adapted to engage the inner face of the sash, the upper one of said portions being adapted to be positioned beneath the outer edge of the window sash and constituting an upper drain shelf, said strip being bent downwardly to form an outer supporting wall and then outwardly in substantially the plane of said base wall to form an attachment flange, and then being reversely bent to extend inwardly in spaced relation to said upper drain shelf to form a lower drain wall extending to a point beneath said base wall, said rib having an opening therein through which water may drain outwardly onto said lower drain wall, and said outer supporting wall having an opening therein for the discharge of water from said drain wall.

2,158,299

RAKE AND TEDDER MECHANISM

Theodore H. Oppenheim, Coldwater, Ohio

Application October 29, 1934, Serial No. 750,452
12 Claims. (Cl. 56—400)



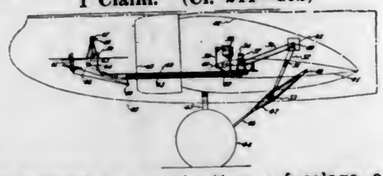
1. In a farm implement having a horizontally arranged rake bar, a tooth having a portion coiled about said bar and having its coiled end secured to the bar, the coiled portion of said tooth being conical with its smallest diameter turn secured to the bar and the tooth depending from the largest diameter turn whereby said tooth in service is free to partially turn about said bar and to move upwardly relative thereto when the tooth strikes an obstruction.

2,158,300

RETRACTABLE LANDING GEAR

George A. Page, Jr., Ferguson, Mo., assignor, by mesne assignments, to Curtiss-Wright Corporation, a corporation of New York

Application October 27, 1934, Serial No. 750,286
1 Claim. (Cl. 244—102)



In aircraft, in combination, a fuselage, a supporting surface extending laterally out from said fuselage on opposite sides thereof, nacelle structures carried by said supporting surface, one each at opposite sides of said fuselage, each said nacelle structure having formed in its under side an opening, a landing gear fastened to said supporting surface and including landing gear wheels retractable through said openings from an extended position beneath to a retracted position partially within said nacelle structures and vice versa, mechanical means housed within said nacelle structures for extending and retracting said landing gear, power means housed within said nacelle structures adapted to operate said mechanical means, control means for said power means operable from within said fuselage and extended into said nacelle structures through said supporting surface, manual means adapted to operate said mechanical means, said manual means being operable from within said fuselage and extended into said nacelle structures through said supporting surface, mechanism housed within said nacelle structures for selectively connecting said mechanical means to said manual means and to said power means, and control means for said mechanism operable from within said fuselage to achieve said selection, said control means being extended from said fuselage into said nacelle structures through said supporting surface.

2,158,301

TOBACCO PIPE

Paul E. Page, Fort Kent, Maine

Application November 8, 1937, Serial No. 173,363
2 Claims. (Cl. 131—204)



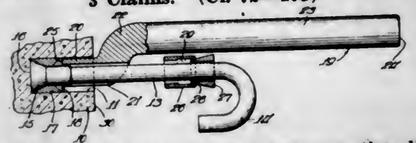
1. In a tobacco pipe, the combination with a stem having an axially extending enlargement of its bore between the bowl end and the mouth piece end, the enlargement providing a chamber for circulation of air admitted through perforations in its wall, of a non-absorbent tube axially lodged in said chamber with its bore forming a smoke passage therethrough, said tube having annular enlargements axially spaced and holes in the wall portion between enlargements that communicate with said smoke passage, and an absorbent sleeve solely carried by said tube and extending from one to another of the annular enlargements thereof, said sleeve being made a slip fit on the enlargements and defining a compartment between enlargements communicating with said holes which enable entrained nicotine juice to gravitate to the sleeve for absorption, there being a space between the periphery of the sleeve and the wall of the aforesaid chamber into which air circulates to dry out the sleeve.

2,158,302

ANCHORING FOR CONCRETE OR THE LIKE

Ralph S. Peirce, Hinsdale, Ill.

Application May 1, 1937, Serial No. 140,176
3 Claims. (Cl. 72—105)



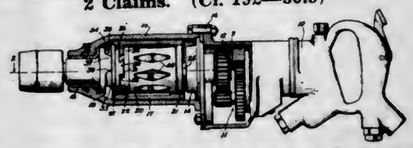
1. In anchorings for concrete or the like adapted for use with a metallic anchor member having a head received in a recess in the concrete and a protruding portion and having an expansion device expanded on said head within the recess and terminating short of the outer end of the recess, the combination with the shank of said anchor member, of a pair of semi-cylindrical separable sleeve portions adapted to be placed on said shank within the recess after the first expansion device has been expanded, said sleeve portions being of relatively soft metal, and means for expanding said sleeve portions.

2,158,303

IMPACT TOOL

Robert H. Pott, Evansville, Ind.

Application August 14, 1935, Serial No. 36,112
2 Claims. (Cl. 192—30.5)



1. In a tool of the character described, a pair of rotatable members having axes extending generally in the same direction, means releasably engaging the two members intermittently including complementary engageable faces generated normal to the angle of approach of said two members as they move into engagement, and means for storing energy in one of said members while said members are in engagement to be expended upon the other member upon a subsequent reengagement therewith to drive said last mentioned member through a working stroke.

2,158,304

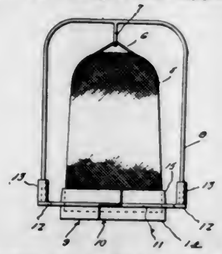
INCANDESCENT MANTLE

Harry Rinnman, Berwyn, Ill., assignor to Universal Mantle, Inc., Brookfield, Ill., a corporation of Illinois

Application March 11, 1937, Serial No. 130,382
2 Claims. (Cl. 67—101)

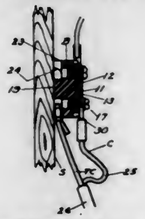
1. A mantle support of the class described comprising a ring-shaped member formed of metal, with a split in the member providing a scarf joint, an outwardly extending flange on the member and connected therewith at the approximate center thereof, with the circumferentially extending part of the split passing through said

flange, an upright mantle supporting frame supported from the flange and supporting a mantle



with the lower end thereof in the ring-shaped member.

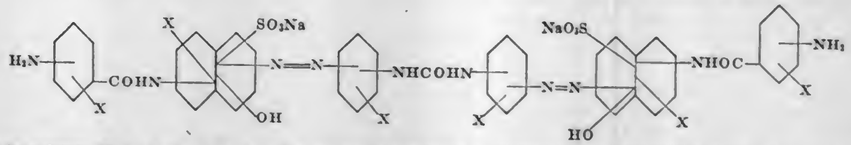
2,158,305
CONNECTOR BLOCK
Morris Rose and Nils A. Judsen, Chicago, Ill., assignors to Kellogg Switchboard & Supply Company, Chicago, Ill., a corporation of Illinois
Application December 23, 1935, Serial No. 55,744
1 Claim. (Cl. 173—322)



A connector for electrical conductors, comprising a block of insulating material for attachment to a wall or fixed support, having a front face on which are provided openly accessible means for applying two or more conductors in circuit, one with another, and a rear face to be turned to the wall and having a stud projecting toward the rear face so its end engages the wall so as to retain in place any closed loop engaging the stud, said stud being exposed laterally on three sides and spaced on its fourth side from the other wall engaging parts of the block, to facilitate threading a loopable connection about the stud, in combination with a conductor having a flexible stay cord, stiff enough to be threaded about the stud and flexible enough to be readily looped and secured.

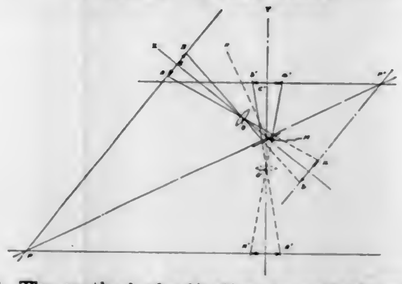
2,158,306
DIRECT DYES, PROCESS AND PRODUCT
Swanie S. Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 11, 1937, Serial No. 147,698
8 Claims. (Cl. 260—175)

1. A compound represented in the form of its sodium salt by the formula:



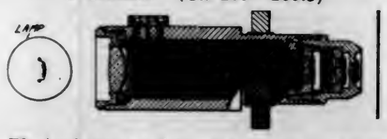
in which X is one or more of a group consisting of hydrogen, halogen, alkyl, alkoxy, alphyl, carboxy, and sulfonic acid, and in which the diamino-diphenyl-urea is one of a group consisting of 3,3'- and 4,4'-diamino-diphenyl-urea.

2,158,307
OPTICAL SYSTEM AND METHOD OF ADJUSTMENT THEREOF
Lawrence T. Sachtleben, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 24, 1936, Serial No. 102,271
4 Claims. (Cl. 179—100.3)



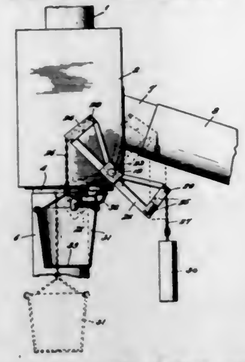
1. The method of adjusting an optical system having a vibrating mirror deflecting an image of an aperture having variable cross section which is projected upon an aperture of uniform cross section in a path which is approximately a conical surface, comprising the step of rotating the said aperture having a variable cross section about the optical axis to the position in which the image of said aperture of variable cross section on said aperture of uniform cross section is at its position of maximum deflection toward minimum exposure of the second aperture symmetrically arranged about the axis of said image perpendicularly bisecting said aperture of uniform cross section.

2,158,308
EXCITER LAMP FOR SOUND RECORDERS AND REPRODUCERS
Lawrence T. Sachtleben, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1937, Serial No. 156,681
2 Claims. (Cl. 179—100.3)



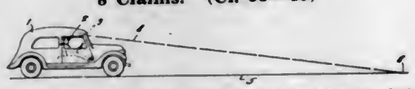
1. Photophonographic apparatus comprising an aperture plate having an aperture, means for directing an image of said aperture toward a photophonographic film and means for illuminating said aperture comprising a coil filament incandescent lamp, the said coil filament being curved in an arc convex toward the said aperture and having a greater angular extent than the aperture as measured from the center of curvature of said filament.

2,158,309
AUTOMATIC CUT-OFF
Arthur V. Salisbury, Kenton, Ohio
Application October 27, 1937, Serial No. 171,347
1 Claim. (Cl. 137—9)



An automatic cut-off device comprising a chamber having an upper inlet and having its bottom formed with a main outlet and a side wall formed with an outlet spaced upwardly from the bottom, a drain pipe leading from the bottom and constituting an auxiliary outlet, a closure operating in said chamber and movable from a normal position in closing relation to the side outlet to a lowered position in closing relation to the main outlet of the bottom, said closure having a rocker shaft journaled through the chamber transversely thereof with one end portion projecting outwardly from a side of the chamber, a rocker arm secured intermediate its length to the outwardly projecting end of the rocker shaft and having vertically extending ends, plates secured against opposite side faces of ends of the rocker arm and defining vertical channels, flexible suspending members secured at upper ends at tops of the channels and extending downwardly through the channels and below the arm, a weight carried by the lower end of one flexible member for normally holding the rocker bar tilted in a direction to maintain the closure in closing relation to the side outlet of the chamber, and a receptacle suspended from the lower end of the other flexible member in position to be filled with liquid flowing from the auxiliary outlet at the bottom of the chamber and gradually assume weight sufficient to overcome the weight and move the rocker bar in a direction to move the closure into closing relation to the main outlet in the bottom of the chamber, a drain being provided for the receptacle whereby liquid therein may escape and the weight restore the rocker arm to its initial position and return the closure into position to close the side outlet of the chamber.

2,158,310
DEVICE FOR INDICATING THE STOPPING POINT OF A VEHICLE
Walter N. Smith, Cleveland, Ohio, and William H. Sanders, Washington, D. C.
Application July 1, 1935, Serial No. 29,390
Renewed March 25, 1939
8 Claims. (Cl. 33—46)



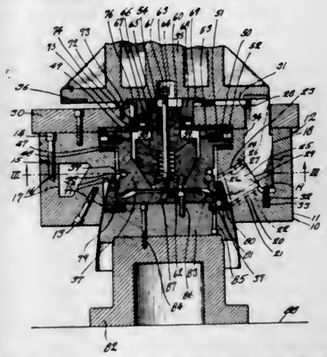
6. A device for locating the stopping point of a moving vehicle comprising a casing, supports carried by said casing having vertical reciprocatory movement within the casing, sights carried by said supports respectively, means to vertically adjust the supports in accordance with the speed of the vehicle, and means to adjust the height of the casing, supports and sights as a unit to suit the convenience of the user, comprising a slide to raise the casing, a screw meshing therewith and manual means to operate the screw.

8. A device for indicating the stopping point of a moving vehicle on a road comprising parallel horizontal bars carried by the vehicle and so arranged as to form a plane for the line of vision of the driver, and means to differentially vary the elevation of both bars to thereby rotate the plane about an axis formed by a substantially horizontal line through the driver's eyes to thereby vary the angle of said plane with the road.

2,158,311
PROCESS OF PREPARING POLYMERIC PRODUCTS
Werner Starck, Hofheim in Taunus, and Heinrich Freudenberger, Frankfort-on-the-Main-Nied, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application September 20, 1937, Serial No. 164,756. In Germany September 23, 1936
6 Claims. (Cl. 260—73)

1. The process which comprises reacting together a compound of the group consisting of aldehydes and ketones and a polyvinylester finely distributed in water in the presence of an emulsifying agent of the group consisting of polyvinyl alcohol and its watersoluble derivatives.

2,158,312
MACHINE FOR MAKING A BARREL
Ralph A. Terrell, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application February 7, 1936, Serial No. 62,839
2 Claims. (Cl. 113—48)



1. In a sheet metal forming apparatus particularly adapted for forming the head of a container shell, an inner die for receiving said shell thereabout including an upstanding rim portion having an internal die surface and an external die surface, an outer composite die assembly adapted to engage said container shell and form the same about said inner die surfaces, said composite outer die assembly comprising a reciprocable compressor head, centrally located

reciprocable cam means engageable by said compressor head for operation thereby, a plurality of radially outwardly movable dies having complementary cam surfaces cooperating with said cam means for being moved radially outwardly thereby when said cam means is operated by said compressor head, whereby to press a portion of said shell into engagement with said internal die surface, said radially outwardly movable dies being provided with radially extending guide portions disposed axially outside of the extremes of said cam sections, cooperating guide means on said composite guide assembly for receiving said guide portions, a first and second resilient means tending to retract said radially outwardly movable dies, said first resilient means being located axially between the extremes of said complementary cam surfaces of said radially outwardly movable dies and said second resilient means being located axially outside the extremes of said cam surfaces, a plurality of radially inwardly movable dies arranged to engage a portion of said shell against said external die surface, said radially inwardly movable dies being provided with cam operating surfaces engageable by a second reciprocable cam means for effecting the operation thereof inwardly, said second cam in return being engaged by said compressor head simultaneously with the engagement of said compressor head with said centrally located reciprocable cam means.

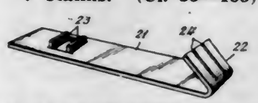
2,158,313

PICK-OFF GAUGE

George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey

Original application December 15, 1936, Serial No. 115,920. Divided and this application May 4, 1938, Serial No. 205,993

7 Claims. (Cl. 33—185)



1. A pick-off gauge comprising a support, a slotted guide located on said support in predetermined relation thereto to define the angle of the active ends relatively to the bodies of the pick-off members for which said gauge is designed, and positioning means on said support at a predetermined distance from said slotted guide, the positioning means cooperating with pick-off holders to position the latter on said support and the slotted guide accommodating in its slot the pick-off blades carried by said holders and indicating the adjustment of the blades thereon and gauging the active ends of said blades.

2,158,314

CATHODE RAY TUBE

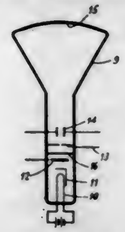
Nicolai von Korshenewsky, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 15, 1936, Serial No. 90,704

In Germany July 16, 1935

2 Claims. (Cl. 250—141)

1. A cathode ray tube comprising an evacuated envelope containing means for forming and accelerating an electron beam, means for modulating said beam, optically opaque means comprising a thin aluminum foil situated between said electron beam modulating means and said electron beam accelerating means, said optically opaque means being electron pervious, and a fluorescing screen positioned in said envelope remote from



the beam forming means and adapted to fluoresce under the action of electron bombardment.

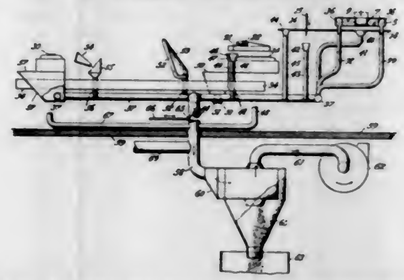
2,158,315

SCRAP COLLECTOR FOR CIGAR MACHINES

Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application March 27, 1936, Serial No. 71,078

8 Claims. (Cl. 131—39)



6. In a cigar machine, the combination with tobacco handling devices, including a filler feed, a charge measuring chamber, a bunch rolling table, a bunch shaping member, a wrapper cutting die, and tuck end trimming means, of mechanism for removing scrap and dust tobacco produced on said machine during its operation from each of said devices, said mechanism comprising a plurality of suction pipes having openings located adjacent each of said devices, a member connecting a source of suction to each of said pipes, and means for directing suction from said wrapper die into the pipes of said removal mechanism when the suction in said die is at a minimum.

2,158,316

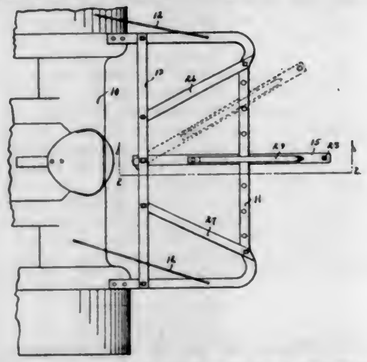
HITCH

Norris J. Alexander, Algona, Iowa

Application July 9, 1938, Serial No. 218,369

1 Claim. (Cl. 280—33.44)

In a device of the class described, a U-shaped member designed to be secured to a pulling vehicle, a cross bar on said U-shaped member, a bar pivoted at its forward end to the center of said cross bar and extending past the center portion and underneath said U-shaped member, an elongated roller rotatably mounted on said bar and engaging the upper surface of the center portion of said U-shaped member, a member secured to the upper side of said bar extending upwardly and rearwardly of said roller and having therein a plurality of vertically arranged holes, and brace members extending from said cross bar to said U-shaped member for bracing said cross bar and for providing a limiting means



for limiting the action of said bar on said U-shaped member.

2,158,317

CIRCUIT BREAKER

Wallace T. Allen, Royal Oak, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan

Application July 9, 1937, Serial No. 152,702

6 Claims. (Cl. 200—168)



1. In an automatic electric circuit breaker having relatively movable contacts and automatic and manual means for effecting relative movement between said contacts, an enclosure for said contacts and means having an opening through which a manual operator extends, and a thin, flexible member movable with said operator and disposable against an inside surface about said opening by the pressure of gases generated within the enclosure by an arc drawn between said contacts to seal the opening against egress of said gases.

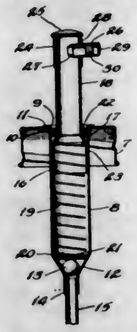
2,158,318

SPRAYER

Rudolph Bernhardt, Chicago, Ill.

Application May 27, 1937, Serial No. 145,027

2 Claims. (Cl. 299—97)



1. In a sprayer for liquids, a closure member, a cylinder having its upper open end secured to the closure member and depending therefrom, said cylinder having a reduced conical lower portion with an inlet at the apex and serving as a valve seat, a valve ball engaging with said seat, a tube extending downwardly from the inlet, a perforated disc engaging with said conical portion and serving as a stop for the ball, a hollow piston engaging with the cylinder and having a conical upper end with an integrally formed tubular extension, a spring interposed between the reduced portion of the piston and said disc and tending to raise the piston, a channel shaped ring having a forced fit in the upper end of the cylinder, a packing carried by said ring and engaging with the tubular extension, said ring serving to limit the outward movement of the piston, a cap at the outer end of the extension serving as a finger piece, and a discharge nozzle extending laterally from the upper end of the extension and having a forced fit in a hole through said cap and extension.

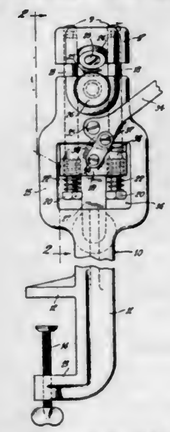
2,158,319

CAN OPENER

Samuel Bloomfield, Chicago, Ill.

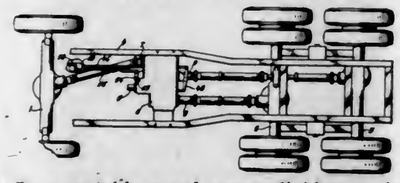
Application May 21, 1938, Serial No. 209,309

8 Claims. (Cl. 30—9)



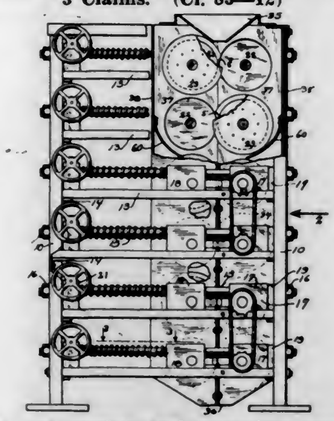
8. A can opener including a support, a feeding wheel and driving means therefor mounted on said support, a cutting head mounted on said support for reciprocation and provided with a cutting wheel movable therewith into and out of cutting relation with said feeding wheel, a toggle block arranged for movement relative to said cutting head in the direction of reciprocation thereof, means yieldingly interconnecting the toggle block and cutting head, lever means on said support and arranged to move said toggle block and effect movement of said cutting head to position the cutting wheel thereof in cutting relation with said feeding wheel, said yielding interconnecting means associated with the toggle block and the cutting head permitting operation of said lever means when said cutting head is restrained against movement, whereby injury to the mechanism may be prevented, said feeding wheel being arranged for axial displacement from an initial position relative to said cutting wheel whereby can rims of varying sizes may be accommodated between said wheels, said feeding wheel having spring means normally urging the same into a predetermined normal axial position relative to said cutting wheel.

2,158,320
POWER-DIVIDED TRANSMISSION
Carl J. Bock, Birmingham, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a corporation of Maine
Application October 7, 1937, Serial No. 167,686
7 Claims. (Cl. 74—326)



1. In a variable speed power divider, an input shaft, differential drive mechanism associated therewith including a pair of side gear elements rotatably mounted on the shaft, a high speed gear and a low speed gear on each element, a slidable clutch selectively operable to couple one of said elements to the shaft and thereby cut out the differential action between said elements, a pair of output shafts, each having rotatably mounted thereon a high speed gear in mesh with the high speed gear of one of said elements and a low speed gear in mesh with the low speed gear of the other of said elements, and slidable clutch means on each output shaft to couple thereto the respective gears thereon.

2,158,321
ORE PULVERIZER
Cyrus R. Brown, Denver, Colo., assignor of fifty percent to Charles N. Ford, Springer, N. Mex., and fifty percent to Sim Calley, Wagon Mound, N. Mex.
Application June 8, 1937, Serial No. 146,980
3 Claims. (Cl. 83—12)



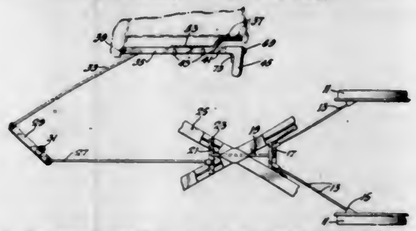
1. An ore crusher and pulverizer comprising in combination, a supporting frame having vertical end members connected by a plurality of pairs of side members of channel cross section with the flanges pointing upwardly, the channels of each pair being on the same vertical level, a stationary bearing and a movable bearing supported on each side member, a roller mounted for rotation between each pair of stationary bearings, another roller mounted for rotation between each pair of movable bearings and means for interconnecting the several rollers journalled in the stationary bearings to obtain simultaneous rotation, the interconnecting means being so related to the circumference of the rollers that the peripherial speed of each roller is greater than that of the roller directly above, the rollers mounted in the movable bearings being independently rotatable, resilient means for urging the movable bearings towards the stationary bearings, means comprising adjustable wedges to limit the movement of the bearings in a direction to decrease the distance between the roller surfaces, said wedges resting on the upper surfaces of the channels, between the corresponding bearings, means for moving each wedge, comprising a bolt threadedly connected with the wedge and rotatable in openings in the flanges, and means on the bolt for engaging a flange surface for resisting longitudinal movement of the bolt in the flange openings whereby when it is rotated it will move the wedge transversely of the channel.

2,158,322
STRINGED MUSICAL INSTRUMENT
John Dopyera, Los Angeles, Calif., assignor, by direct and mesne assignments, to Emil Dopyera, Rudolph Dopyera, Louis Dopyera, and Robert Dopyera, doing business under name Dopyera Brothers
Application August 16, 1937, Serial No. 159 351
5 Claims. (Cl. 84—296)



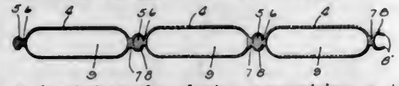
1. For use in a musical instrument, a pair of laterally spaced circular resonators, a bridge, means connecting said bridge and said resonators, said bridge being adapted to support playing strings, said connecting means being disposed nearer to the center of one resonator than the center of the other resonator so that the bridge affects one resonator more than the other.

2,158,323
BRAKE OPERATING MECHANISM
Anton F. Ericson, Dayton, Ohio, and Benjamin H. Anibal, Pontiac, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 21, 1938, Serial No. 209,212
7 Claims. (Cl. 74—503)



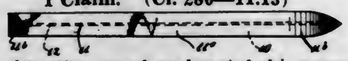
1. In combination, an elongated bracket of U-shaped in section, said bracket having ratchet teeth formed in its web, a U-shaped member slidably guided in said bracket, motion transmitting means connected to one end of said member, a handle carried by the other end of said member, said member having a slot positioned to lie opposite the ratchet teeth of the bracket, a pawl pivoted within said member and yielding means to project the tip of said pawl through said slot and into engagement with said ratchet teeth.

2,158,324
EVAPORATOR COIL AND THE LIKE
John F. Furry, Waukegan, Ill., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware
Application October 30, 1937, Serial No. 171,864
6 Claims. (Cl. 62—126)



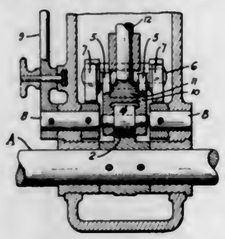
2. A heat transfer device comprising a tube wound in helical form to provide successive convolutions contiguous to each other, said tube having a tongue substantially continuous along one side thereof and a channel substantially continuous along the other side thereof, the tongue portions of successive convolutions being in interlocking engagement with the channel portions of contiguous convolutions.

2,158,325
COMBINATION METAL-WOOD SKI
Donald B. Hunt, Troy, N. Y.
Application July 6, 1937, Serial No. 152,081
1 Claim. (Cl. 280—11.13)



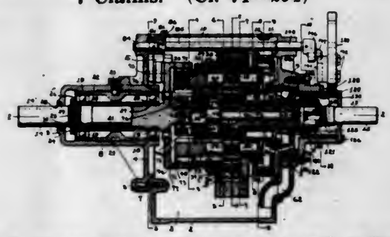
A combination wood and metal ski, comprising a resilient wooden upper layer having its front end turned upwards, and having its intermediate portion substantially thicker than the end portions whereby said wooden layer is less resilient at its intermediate portion than at said end portions, and a lower layer of metal glued to the under side of said upper layer, said lower layer being shaped in width similarly to said upper layer, and of uniform thickness from end to end whereby the resiliency of the various portions of said ski is determined by the wooden upper layer.

2,158,326
INJECTION RATE CONTROL FOR FUEL PUMPS
Birddine T. Insley, San Francisco, Calif.
Application May 17, 1937, Serial No. 142,943
3 Claims. (Cl. 74—53)



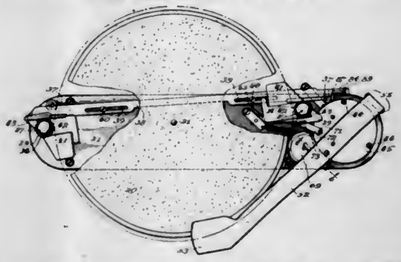
1. The combination with a rotatable fuel cam and the tappet of a fuel pump, of a cam follower actuated by the fuel cam; means carried by the follower for imparting reciprocal movement to the tappet; an arm supporting the follower at its inner end; an adjustable support for the outer end of the arm, said follower normally assuming a predetermined neutral position with relation to the cam when in its lowermost position; a pivot for the adjustable support, said pivot being located substantially at the same point as the center of the follower when in its neutral position; and means for swinging the support and the outer end of the follower supporting arm about said pivot whereby the follower when raised by the cam will move from its neutral position to a full lift position within a greater or lesser period of time at any given engine speed.

2,158,327
POWER TRANSMISSION AND SPEED REDUCER
Joseph F. Jaworowski, Cleveland, Ohio
Application August 28, 1937, Serial No. 161,462
7 Claims. (Cl. 74—294)



1. A power transmitting and speed reducing unit comprising a casing, a drive shaft and a driven shaft, said shafts extending from opposite sides into said casing, a member for coupling said shafts rotatably mounted within said casing upon said shafts, valve controlled pumping means within said coupling member embodying rotors directly coupled with said drive shaft, and pinions at the ends of said rotors, a ring gear connected to the driven shaft in driving connection with said pinions, valve means controlling the rotors of said pumping means, a brake for said ring gear, a brake for said coupling member, and means including a single operating lever for jointly actuating said valve means and one and/or the other of said brakes.

2,158,328
AUTOMATIC PHONOGRAPH
Carl G. Johnson, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application May 17, 1937, Serial No. 143,086
7 Claims. (Cl. 274—10)



7. In an automatic phonograph, in combination, a turntable, means for supporting a stack of records in dispensing relation thereabove, means for setting the supporting means to adapt same to receive records of a desired size, a tone arm operably associated with said turntable, a bifurcated member operatively connected to the tone arm, a cam member adapted to engage one arm of the bifurcated member to throw the tone

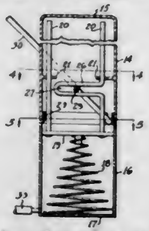
arm clear of the records, a contact member pivotally mounted on the other arm adapted to be engaged by the cam member to move the tone arm to initial playing position, a spring biasing the contact member weakly inwardly, a movable abutment member on said other arm, and means operated by the setting means to determine the position of the movable member on said other arm and thereby the degree of movement of the tone arm.

2,158,329
WHIP STOCK
Frank Kinzbach, Houston, Tex.
Application August 6, 1937, Serial No. 157,638
5 Claims. (Cl. 255—1)



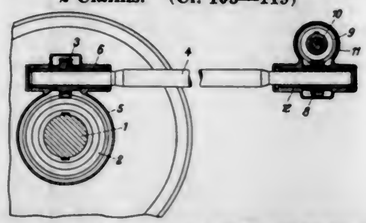
1. A milling tool deflector adapted to be set in a well pipe and whose upper end is formed with a tapered deflecting face extending downwardly from its upper end and whose intermediate portion is formed with an approximately vertical face having a vertical groove therein, said deflector having a downwardly and outwardly declining face beneath the vertical face.

2,158,330
ACTUATOR FOR GLARE SHIELDS
Merwin J. Larson, Portland, Oreg.
Application October 27, 1936, Serial No. 107,830
2 Claims. (Cl. 121—38)



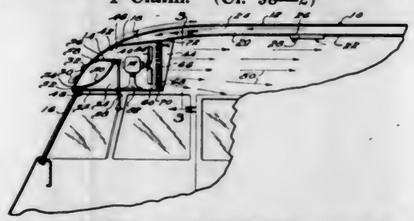
1. An actuator for glare shields consisting of a pneumatic cylinder having a piston disposed within same, slide rods attached to said piston, ears within said cylinder constituting guides for said rods, a Scotch yoke connected to one of said slides, a shaft journaling in said cylinder normal to its longitudinal axis having a crank at its intermediate portion engaging said Scotch yoke, said shaft having arms projecting from opposite ends thereof adapted to support a shield element, means for evacuating the air from one end of said cylinder and a spring for resisting the action of said air evacuating means.

2,158,331
POPPET VALVE CONTROL FOR STEAM LOCOMOTIVES
Hugo Lentz, Berlin, Germany
Application December 4, 1936, Serial No. 114,190
In Germany December 7, 1935
2 Claims. (Cl. 105—119)



2. A poppet valve control drive for steam locomotive engines, comprising in combination with a driving axle and the frame of a locomotive, a transverse shaft journaled in said frame, a housing oscillatably supported by the axle and coaxial therewith, a second housing oscillatable on said transverse shaft, said housing having lateral recesses forming part of a cylinder with its axis at right angles to the axis of the driving axle and to the transverse shaft respectively, a bearing in each of said housings, each bearing having lateral projections guided in the cylindrical recesses in said housings and adapted to swing about the axis of the respective cylinders, an intermediate shaft placed between the driving axle and the transverse shaft and journaled at its two ends in said bearings, the bearings forming with said housings a Cardan joint adapted to allow said intermediate shaft to adjust itself freely in space, and two pairs of transmission wheels, one pair connecting one end of said intermediate shaft with said driving axle, and the other connecting the other end of said intermediate shaft with said transverse shaft, said pairs of transmission wheels having the same ratio.

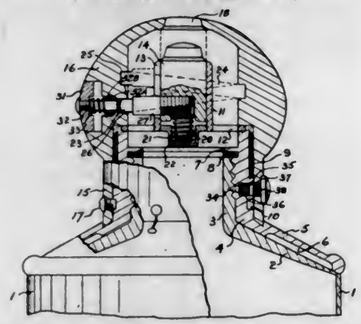
2,158,332
VEHICLE VENTILATING APPARATUS
Alfred R. Lintern, Detroit, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application October 1, 1936, Serial No. 103,520
1 Claim. (Cl. 98—2)



A vehicle body and ventilator comprising a roof structure and a forwardly facing wall adjacent thereto, an air injector opening in the upper portion of said forwardly facing wall, a header mounted within said vehicle body over said injector opening having a substantially horizontally directed air discharge opening communicating with the interior of the vehicle remote from said injector opening, an adjustable baffle means pivotally mounted about a horizontal axis at the lower edge thereof associated with the header opening remote from the injector opening, said baffle means including transversely extending fins

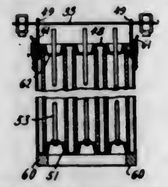
providing air directing passages therebetween, certain of said transversely extending fins being angularly disposed relative to others of the fins, means for adjusting said baffle means whereby the air entering the body may be selectively directed, an upwardly and inwardly extending deflector within said header adjacent said injector opening to direct the passage of air into said header, and adjustable damper associated with said deflector, means to adjust said damper to control the passage of air into said header, a fan within said header between said baffle means and said damper, and means to control the operation of said fan.

2,158,333
DISPENSING ATTACHMENT FOR COLLAPSIBLE TUBES
Charles Stewart Mann, Vancouver, British Columbia, Canada
Application September 13, 1937, Serial No. 163,566
6 Claims. (Cl. 221—60)



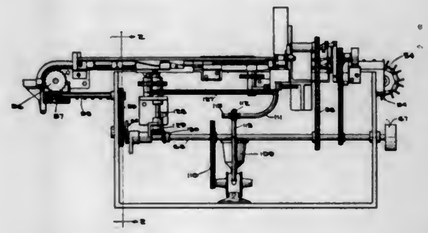
1. In a dispensing attachment having an internally threaded sleeve adapted for attachment to the nipple of a collapsible tube, a cap having a collar rotatable about the sleeve, said sleeve having an opening through its wall, a pin in said opening adapted to project into the nipple of the tube, said collar having a threaded opening and a screw plug therefor adapted to be brought into register with the opening in the sleeve, said screw plug when seated in its threaded opening being adapted to press the pin into the nipple and to project to the inner peripheral face of the collar to permit the cap to rotate freely about the sleeve while retaining the pin projected into the nipple of the tube.

2,158,334
ABSORBENT ARTICLE-SATURATING APPARATUS
Stuart P. Miller, Scarsdale, N. Y., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application August 15, 1936, Serial No. 96,164
3 Claims. (Cl. 91—60)



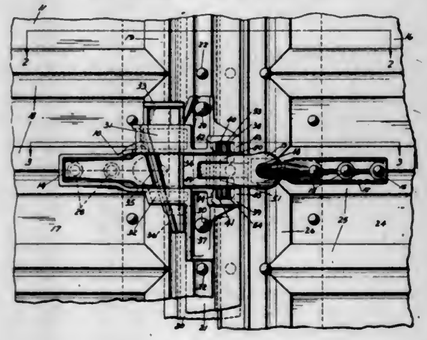
1. In apparatus for saturating individual porous articles with a saturant of a specific gravity greater than that of the articles so that the articles have a tendency to float in the saturant when immersed therein, a holder including means for engaging opposite end portions of an article to be saturated to maintain the article in substantially fixed relation to the holder, means on the holder for suspending it from a conveyor traveling through the saturant, said holder being weighted to overcome the buoyancy of the article in the saturant.

2,158,335
FEEDING MECHANISM
Michael J. Milmoe, Glen Ellyn, Ill., assignor to F. B. Redington Co., Chicago, Ill., a corporation of Illinois
Original application June 13, 1932, Serial No. 616,857. Divided and this application April 5, 1937, Serial No. 135,085
5 Claims. (Cl. 271—29)



1. A feeding mechanism comprising a suction member movable alternately from a position adjacent a source of supply to a position of delivery, suction means for applying suction to said member, means for controlling said suction applying means, and means movable with the suction member for operating said controlling means whereby the suction is applied to the member as the same is moved to the position adjacent the source of supply and released therefrom as the member is moved to the position of delivery.

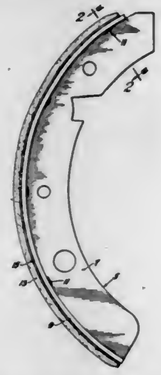
2,158,336
LOCKING, OPENING, AND CLOSING DEVICE
Gabriel Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application July 1, 1937, Serial No. 151,378
7 Claims. (Cl. 292—240)



1. In a railway house car having a sliding door and a relatively stationary member associated

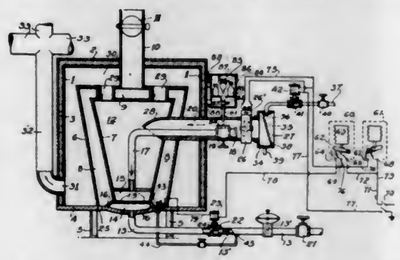
therewith, the combination comprising a link carried by said door, a lever pivoted intermediate its ends to said link, lugs on one end of said lever, a member secured to said relatively stationary member having abutments, said lugs being releasably engageable with said abutments to effect movement of said door in closing direction upon swinging said lever in one direction, said lugs being spaced from said abutments in the closed position of said door and means on said relatively stationary member associated with said lever for preventing opening movement of said door.

2,158,337
BRAKE LINING MATERIAL GLASS FABRIC
Olaf Rasmussen, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 13, 1937, Serial No. 163,520
9 Claims. (Cl. 188—250)



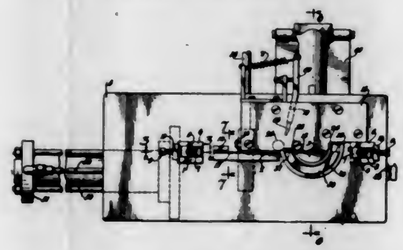
1. In a friction brake, a braking member, a second member, a quantity of fibrous glass carried by the braking member and adapted to frictionally engage said second member to avoid the effects of humidity and to prevent transmission of heat.

2,158,338
FURNACE ASSEMBLY
Robert B. Rock, Los Angeles, Calif.
Application June 4, 1937, Serial No. 146,499
8 Claims. (Cl. 126—116)



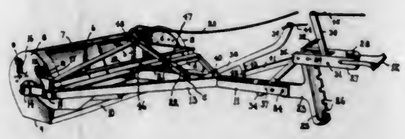
1. A furnace assembly, a plurality of walls forming an air heating chamber having an inverted frusto-conical shape, said chamber having an inlet and outlet to receive and emit, respectively, the air to be heated, other walls spaced from and surrounding the first mentioned walls to form a fire chamber, insulated walls spaced from and surrounding the second mentioned walls to form a secondary heating chamber having an outlet near its bottom, the outlet of said first chamber opening into the upper portion of the secondary heating chamber.

2,158,339
TUBE-ROLLING MACHINE
Leo C. Shippy, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 1, 1937, Serial No. 140,127
7 Claims. (Cl. 153—15)



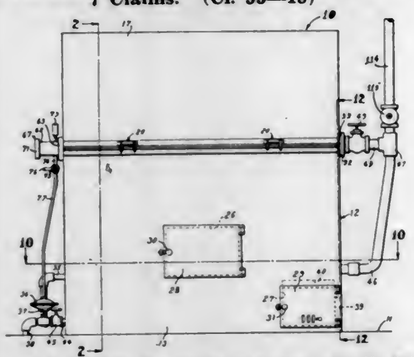
1. In a forming machine of the character described, gage means to receive a strip to be formed, a pair of forming dies arranged in fixed spaced relation and located intermediate the ends and to one side of the gage means, a parti-ring shaped wall on the opposite side of said gage means having a nose for engagement with an intermediate portion of the strip to be formed, die formations on the inner and outer curved side faces of said wall for cooperation with the respective forming dies for rolling both end portions of the strip to parti-cylindrical shape, means rotatably mounting said wall on the axis of said curved faces and operating mechanism for rotating said wall through the space between said dies.

2,158,340
COMBINED EARTH SCRAPER, SPREADER, AND DUMPER
Karl A. Spieth, Omaha, Nebr.
Application April 18, 1938, Serial No. 202,700
6 Claims. (Cl. 37—140)



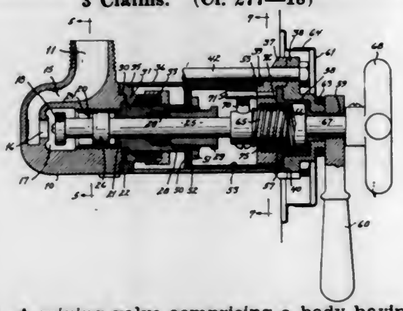
1. An earth-scraping, spreading and dumping machine, comprising a forwardly drawn clevis provided with a keeper, a cylindrical bowl provided with stop-lugs on its ends, a forwardly extending beam having a pair of arms pivotally mounted on the ends of the cylindrical bowl, a movable rock-frame on the beam provided with control-lugs for engaging the stop-lugs, a headpiece mounted upon and having a slot receiving the keeper of the clevis and inclined forwardly and downwardly relative to said beam, and movable means on the clevis for engaging the headpiece for preventing a movement of the headpiece relative to the clevis.

2,158,341
COOKER
Max F. Thau, Los Angeles, Calif.
Application April 4, 1938, Serial No. 199,876
7 Claims. (Cl. 53—18)



1. In a cooker, an outer housing, a cylindrical drum in said housing, means to rotate said drum, means to heat said drum and means to supply smoke to the interior of said drum.

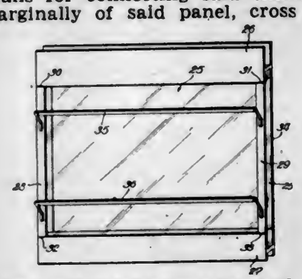
2,158,342
MIXING AND CONTROL DEVICE FOR FLUIDS
Wilbur S. Trader, Charles H. Hamilton, and Walter H. Finley, Nashville, Tenn.
Application May 6, 1937, Serial No. 141,098
3 Claims. (Cl. 277—18)



1. A mixing valve comprising a body having a three-port valve chamber, turnable means operatively arranged relative to two of the ports variably to mix fluid admissible to the valve chamber therethrough, reciprocable means which is adjustable independently of the turnable means to block and unblock the third port, a sliding connection between the body and reciprocable means to prevent turning of the reciprocable means, and screw thread mechanism to operate the reciprocable means, said mechanism including a threaded element inside the body and which is fixed against axial movement relative to the body, said element having an operating part extending outside the body.

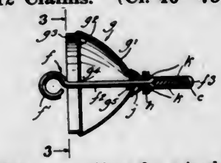
2,158,343
DISPLAY DEVICE
Erwin Wagner, Chicago, Ill., assignor to Wagner Sign Service Incorporated, Chicago, Ill., a corporation of Illinois
Application January 10, 1938, Serial No. 184,141
5 Claims. (Cl. 40—140)

1. In a display sign, a display panel, a carrier therefor which comprises an upper and a lower channel member H-shaped in cross section, carrier means for connecting said channel members marginally of said panel, cross members



connecting said carrier means, and character means removably attached to said cross members.

2,158,344
PROPELLER MOUNTING FOR TOY AIRPLANES
Nevilles E. Walker, Portland, Oreg.
Application February 19, 1938, Serial No. 191,461
12 Claims. (Cl. 46—78)



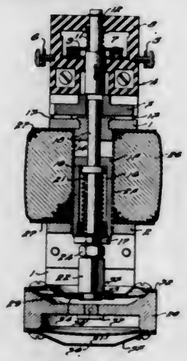
9. A propeller mounting for airplanes comprising a nose piece for the forward end of an airplane body, a propeller and a propeller shaft journalled in said nose piece, said shaft engaging said propeller by one end of said shaft and provided with a formed attachment means for a band motor at the other end thereof, said shaft comprising two lengths of an elongated section of half-round material lying alongside each other with the flattened faces of said half-round material opposing each other and engaging the opposite sides of the propeller, and at a point distant from said propeller abutting against each other and together constituting a shaft of circular section.

2,158,345
TAG AND MEANS THEREON FOR ATTACHING THE SAME TO GARMENTS
Samuel Weiss, Brooklyn, N. Y.
Application November 8, 1938, Serial No. 239,477
2 Claims. (Cl. 40—20)



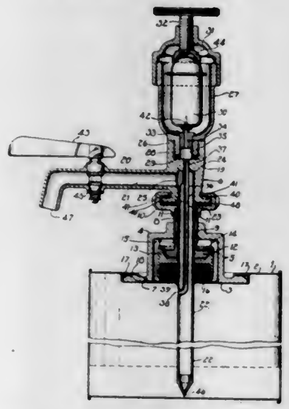
1. A tag and a means thereon for attaching the same to a garment comprising a patch of resilient material secured to said tag, said patch and said tag having therein each a slot for passing therethrough a button of a garment, whereby to connect said tag to said garment, said slots being disposed substantially transversely to each other, the said disposition of said slots and the resilience of said patch serving to securely keep said tag attached to said garment.

2,158,346
TIMING RELAY
Henry A. Wilhelm, Milwaukee, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 13, 1936, Serial No. 110,724
10 Claims. (Cl. 200—97)



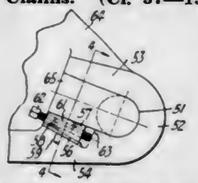
1. An automatic timing relay comprising an actuating coil, a solenoid armature movable thereby, a switch operating rod extending through said armature and having a lost motion connection therewith, a spring within said armature about said rod and forming a part of said connection, and time delay means connected to said rod to delay its movement in at least one direction.

2,158,347
PORTABLE DISPENSING APPARATUS
Charles R. Yirava, Cleveland, Ohio
Application November 23, 1937, Serial No. 176,124
4 Claims. (Cl. 225—41)



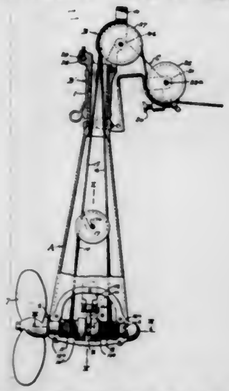
1. A liquid dispensing apparatus for sheet metal containers having closed tops, a liquid discharge means, liquid compression means carried by said discharge means, a hollow base for supporting the said discharge means and liquid compression means on the top of the container, a packing member in said base, a follower screw threadedly mounted in said base and rotatably connecting said discharge means to the base and adapted to compress said packing when rotated in one direction.

2,158,348
EXCAVATOR
Donald H. Young, San Francisco, Calif., assignor, by mesne assignments, to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application October 31, 1936, Serial No. 108,561
2 Claims. (Cl. 37—191)



1. An excavator comprising a bucket body having a pin aperture therethrough, a pin seat on said body adjacent one end of said aperture, a pin in said aperture, a head on said pin having parallel sides, one of which abuts said pin seat, a wedge seat on said body merging with a wall normal to said parallel sides, a wedge interposed between the other side of said head and said wedge seat, and a set screw threaded through said wedge and having its leading end bearing upon said wall.

2,158,349
PROPELLING MECHANISM
Clarence W. Allen, San Francisco, Calif.
Application November 28, 1934, Serial No. 755,190
Renewed April 29, 1938
2 Claims. (Cl. 74—136)



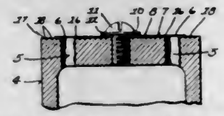
1. In a mechanism of the character described, a drive shaft, a toothed ratchet member in the form of a sleeve secured on the shaft intermediate the ends thereof, a pair of drums journaled on the shaft, one on each side of the ratchet member, one drum having a left-hand helical groove formed on its face and extending from end to end thereof and the other drum having a right-hand helical groove formed in its face and extending from end to end thereof, inner and outer cable anchoring members on each drum at opposite ends thereof, a pawl on each drum engaging the ratchet member, an idler pulley disposed above the drums, a flexible control cable passing over said idler pulley, one end of the cable being wound around the inner half of the left-hand helically grooved drum and secured to the inner anchor member of said drum and the other end of the cable being wound around the inner half of the right-hand helically grooved drum and secured to the inner anchor member of said drum, said cable causing rotation of the drums in opposite directions when power is transmitted to rotate the drums and also causing the pawls carried by the drums to alternately engage the ratchet member and transmit rotation to the drive shaft in one direction, a pair of flexible power transmitting pull cables, one end of one cable being wound around the outer end of the left-hand helically grooved drum and secured to the anchor member at the outer end of the drum and one end of the other cable being wound around the outer end of the right-hand helically grooved drum and secured to the anchor member at the outer end of that drum, and means connected with the opposite ends of the last-named pair of pull cables for alternately exerting a pull thereon to rotate the drums in opposite directions.

2,158,350
MATCH BOOK MAKING MACHINE
William W. Allen, Beverly Hills, Calif.
Application March 5, 1934, Serial No. 714,109
Renewed October 21, 1938
26 Claims. (Cl. 93—2)



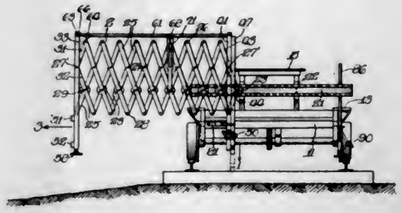
1. In a match book making machine, means for continuously and uninterruptedly feeding a plurality of webs of individual match comb width into the machine, means for dividing the material of each web into match combs, a comb carrier, comb supports on said carrier, and guiding means for passing the severed combs from each web comb into engagement with the supports on said carrier, said supports being shaped to spread the splints of the combs as they slide onto the supports.

2,158,351
VALVED PISTON
Arthur D. Ames and John F. Furry, Waukegan, Ill., assignors to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware
Application August 25, 1937, Serial No. 160,878
13 Claims. (Cl. 230—221)



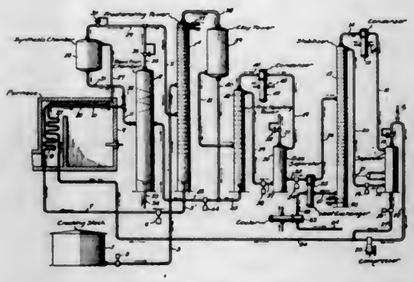
1. A valved piston comprising the combination with a piston having a plurality of ports in its head at peripheral points remote from its center, of a valve element having a hub portion at said center and a valve portion co-acting with the several ports and flexible narrow spoke portions connecting said hub and valve portions, means guiding the hub portion of the valve element for bodily movement to and from the head, and means for restricting the extent of such movement, the flexibility of said spoke portions being adapted to accommodate greater movement of the valve portion than is possible to the hub portion.

2,158,352
RAIL-CAR SET-OFF APPARATUS
Hugh S. Brown, Harvey, Ill., assignor to The Hubron Company, Inc., Somerville, N. J., a corporation of New Jersey
Application February 6, 1936, Serial No. 62,627
29 Claims. (Cl. 104—48)



1. The combination of a rail car, means secured to said car and adapted to rest on the ground, and including means extendable in a direction away from the tracks and means cooperating with said extendable means and said car when said extendable means rests on the ground to raise the car when the extendable means is so extended, and forming a conveyor on which said car may be shifted away from the tracks.

2,158,353
METHOD OF PRODUCING HYDROCARBONS SUITABLE FOR MOTOR FUEL
Carl C. Chaffee, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application April 19, 1935, Serial No. 17,229
5 Claims. (Cl. 196—47)



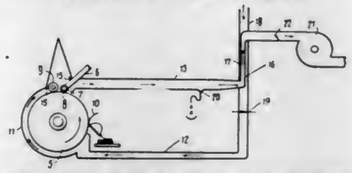
5. A method for producing gasoline-like hydrocarbons suitable for use as a motor fuel including the steps of heating a hydrocarbon oil to temperatures of active pyrolytic decomposition; simultaneously heating normally gaseous hydrocarbons to temperatures of active pyrolytic synthesis; allowing a time interval of synthesis in a polymerization zone in which liquid hydrocarbons are formed; withdrawing unconverted gases from the polymerization zone, separately withdrawing the liquid hydrocarbons from the polymerization zone and while substantially at reaction temperature commingling them, with the hydrocarbons heated to active temperatures of pyrolytic decomposition, allowing a time period of reaction between the freshly cracked and freshly polymerized material in a reaction zone; withdrawing the vapors and gases from the reaction zone; dephlegmating the vapors; condensing the vapors and separating from the condensate, normally gaseous hydrocarbons.

2,158,354

TREATMENT OF FOOD MATERIALS

William W. Cowgill, Fairfield, Conn., assignor to Sardik Incorporated, Jersey City, N. J., a corporation of Delaware

Application May 14, 1936, Serial No. 79,638
5 Claims. (Cl. 99—199)



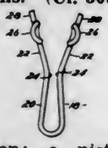
1. The method of reducing the moisture content of a material which when dry is hygroscopic in air having a relative humidity above a certain critical point, which consists in distributing the material to be dried over a drying surface, passing the material on said surface through a drying zone and removing substantially dry material from said surface, passing a stream of moisture removing air over the material in said zone and in a direction counter to the direction of movement of the material through said zone, maintaining the relative humidity of said air stream below said critical point until said stream is in contact with material still predominantly liquid, and maintaining said current of air in contact with liquid material until substantially saturated.

2,158,355

PISTON EXPANDER

Claud C. Craven, Kansas City, Mo., assignor to A. B. Chance Co., a corporation

Application March 23, 1936, Serial No. 70,243
2 Claims. (Cl. 309—12)



1. In combination; a piston comprising a head portion and a skirt having a longitudinal slot therein forming opposed edge faces, each of said faces having a notch therein extending transversely of said longitudinal slot, said notches being in opposed relation and combining to create a frusto-conical orifice through the skirt of the piston with its largest diameter at the outer face of the skirt; and a sheet metal expander comprising a resilient U-shaped body adapted to exert expanding force against the opposed edge faces of the skirt, said body having a laterally extending lug on one edge of said body adjacent to each free end thereof the remote faces of said lugs combining to present a frusto-conical surface engageable with the said orifice of like form when the expander is in the operative position.

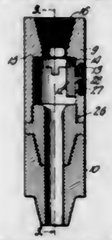
2,158,356

APPARATUS FOR OIL WELL DRILLING

Joseph G. Dyer, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

Original application September 16, 1935, Serial No. 40,746. Divided and this application November 22, 1937, Serial No. 175,831
1 Claim. (Cl. 255—28)

A drill pipe coupling means including in combination a nipple adapted to be threaded into a length of drill pipe, a body member formed with an enlarged interior chamber secured to said nipple, said body member being formed with means adapted to secure it to another section of drill pipe, a valve pivoted within said chamber and adapted to be swung to positions transverse to and axially of said body member, said body member being formed with an axial opening providing communication through said chamber between the sections of drill pipe coupled by the



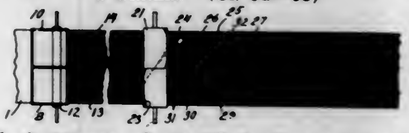
assembly, said body member being formed with a transverse opening providing access between said chamber and the exterior of said body member, said valve being positioned in said chamber to be swung to a position alternately closing either of said axial or transverse openings, said transverse opening being internally threaded, a plug adapted to be inserted into said opening and interacting means carried by said valve and said plug for securing said valve in a position closing said transverse opening.

2,158,357

PROCESS OF MAKING SHINGLES

Clarence R. Eckert, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

Application December 24, 1935, Serial No. 55,963
3 Claims. (Cl. 91—68)



1. A process of manufacturing multi-colored strip shingles having shingle-simulating tabs separated by relatively narrow cutouts simulating the spaces between individual shingles along one longitudinal edge thereof which comprises applying a plurality of differently colored bands of surfacing material to a coated roofing base, cutting said base along generally diagonally extending broken lines, each cut defining the shingle-simulating tabs and the cutouts between the tabs of one strip shingle and the upper edge of a continuous shingle, said cuts being at such an angle to said parallel longitudinal bands that the cutouts register substantially throughout their lengths with the meeting edges of the differently colored bands so that each tab falls entirely within one of the bands.

2,158,358

SEPARATION OF WAX FROM OIL

Louis P. Evans, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application February 24, 1937, Serial No. 127,403
7 Claims. (Cl. 196—18)

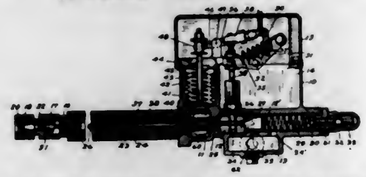
5. The method of dewaxing wax-bearing oil which comprises mixing the oil with a dewaxing solvent liquid, forming a concentrated solution of crude montan wax in oil at a temperature of around 190° F., forming a separate concentrated solution of aluminum stearate in a mixture of oil and solvent liquid at a temperature of around 140° F., adding both said concentrated solutions in small proportion to the mixture of wax-bearing oil and dewaxing solvent at a temperature of around 100 to 120° F., chilling the mixture to precipitate wax constituents, and removing the wax constituents so precipitated.

2,158,359

VISCOSITY REGULATED FLUID FUEL CONTROL MEANS

Lawrence L. Finnigan, Seattle, Wash.

Application April 4, 1933, Serial No. 664,306
14 Claims. (Cl. 158—36)



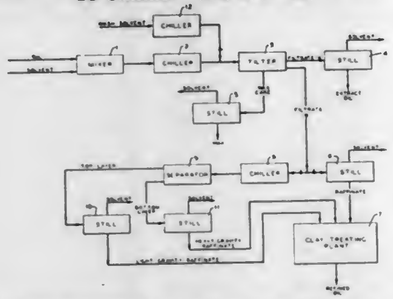
11. A liquid fuel burning apparatus including a burner tube supplied with liquid fuel by means of a pump, an oil heater for said fuel, a valve provided in said burner tube and adapted to open automatically to discharge the liquid for ignition when said fuel reaches a predetermined pressure, a discharge pipe extending from said burner tube, and automatically acting retardation means associated with said discharge pipe and adapted to delay the rise of liquid fuel pressure in the burner tube after the pump has been started and thereby delay the opening of the aforesaid valve.

2,158,360

MANUFACTURE OF LUBRICATING OIL

Francis X. Govers, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a corporation of Maine

Application March 29, 1932, Serial No. 601,887
14 Claims. (Cl. 196—13)



1. The process of manufacturing high viscosity index lubricating oil of 0° F. pour test or lower from wax-bearing mineral oil comprising mixing with the oil a solvent mixture composed of about equal parts of liquid sulphur dioxide and monochlorbenzol, chilling the mixture to around 0° F. or below whereby the relatively high viscosity index constituents together with wax constituents are precipitated, filtering the mixture to remove the solvent and dissolved low viscosity index constituents and forming a filter cake composed of a precipitate of relatively high viscosity index constituents and wax constituents, extracting the precipitate in situ with a chilled mixture of liquid sulphur dioxide and monochlorbenzol, the monochlorbenzol comprising substantially in excess of around 50% of the solvent mixture whereby the relatively high viscosity index constituents are dissolved and removed from the wax constituents, and removing the solvent to produce the low pour, high viscosity index oil.

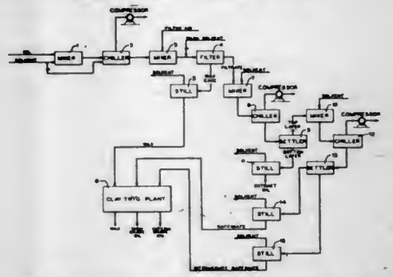
9. A process of manufacturing lubricating oil, which comprises mixing a wax-bearing lubricating oil fraction containing constituents of relatively high and relatively low viscosity index with sulphur dioxide and an aromatic hydrocarbon selected from the group consisting of benzol and its homologs, separating the extracted wax-bearing fraction and the extract containing low viscosity index constituents, mixing additional sulphur dioxide and aromatic hydrocarbon with the extracted wax-bearing fraction, the aromatic hydrocarbon being in greater proportion than the sulphur dioxide, and separating the wax therefrom.

2,158,361

MANUFACTURE OF LUBRICATING OIL

Francis X. Govers, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a corporation of Maine

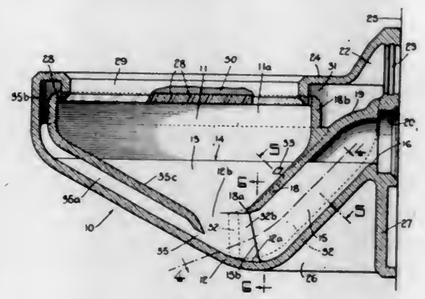
Application September 16, 1932, Serial No. 633,461
13 Claims. (Cl. 196—13)



11. The process of dewaxing wax-bearing mineral oil which comprises mixing the oil with sulphur dioxide and an aliphatic ether selected from the group consisting of ethyl ether and isopropyl ether in proportions such that the mixture has selective action as between wax and oil at temperatures of around 0° F., chilling the mixture to precipitate wax, and removing the wax thus precipitated.

13. The method of dewaxing and extracting wax-bearing mineral oil containing high and low viscosity index constituents which comprises mixing the oil with a mixture of sulphur dioxide and an aliphatic ether selected from the group consisting of isopropyl and ethyl ether, the solvent mixture containing around 20% of sulphur dioxide and mixed with the oil in such proportion that at 0° F. and below the mixture has substantially complete solvent action on the liquid hydrocarbon constituents of the oil and substantially no solvent action on the solid hydrocarbon constituents, chilling the mixture to precipitate the solid hydrocarbon constituents, removing the solid hydrocarbons so precipitated, modifying the composition of the resulting dewaxed solution by increasing the ratio of sulphur dioxide to ether in the solvent mixture, separating the mixture into an extract phase containing low viscosity index constituents and a raffinate phase containhigh viscosity index constituents, and separating the two phases.

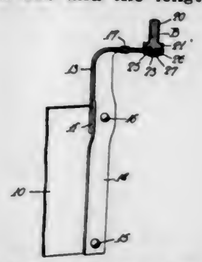
2,158,362
DEFECATOR
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application July 8, 1936, Serial No. 89,578
1 Claim. (Cl. 4—69)



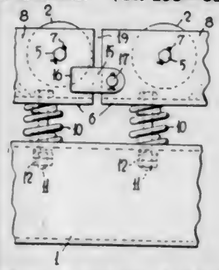
A defecator comprising in combination, a bowl provided with a well adapted to confine an after-fill, and further provided with an up-flow discharge passage, said upflow discharge passage communicating at its lowest point with the bottom of the well of the bowl, jet openings directed upwardly within the said up-flow discharge passage at opposite lateral walls thereof, said jet openings being of substantially flat formation and having lengths approximately equal to the heights of the lateral walls of the said up-flow discharge passage and being operative to discharge flushing liquid in streams substantially parallel with the said lateral walls of the up-flow discharge passage, a substantially flat jet opening disposed oppositely from and in substantially rectilinear axial alignment with said up-flow discharge passage and communicating at its lowest point with the bottom of the well of the bowl, said jet opening having a width approximately equal to the width of the well of the bowl and being operative to discharge flushing liquid in a substantially horizontally flat stream across the said bottom of the well of the bowl toward and up the said up-flow discharge passage thereof a vortex jet opening disposed within the bowl below the normal level of the after-fill and above the mouth of the well of the bowl, the inner surfaces of the walls of the bowl above the mouth of the well diverging outwardly in substantially smooth rectilinear formation to locations above the normal level of the contents of the bowl, and means for supplying flushing liquid concurrently to all of said jet openings.

2,158,363
ELECTRODE TERMINAL CONSTRUCTION
Alexander Georgiev, Dayton, Ohio, assignor to Aerovox Corporation, a corporation of New York
Application October 20, 1931, Serial No. 569,926
Renewed December 31, 1934
6 Claims. (Cl. 175—315)

1. As an article of manufacture, an electrode element for an electric condenser of the enrolled type comprising an elongated strip of thin metal foil, said strip being transversely slit near one end thereof, affording a tab reversely bent to project along one end of said foil, said tab being laterally turned over to bring the outer edge of the terminal tab into alignment with the outer edge of the foil, a reinforce strip extending the width of said foil and the length of the protruding tab and means securing said strip to said foil and said tab.

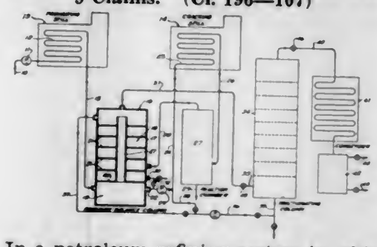


2,158,364
ARTICULATED RESILIENT CONVEYER
Arthur M. Hahn, Washington, D. C., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application February 15, 1937, Serial No. 125,916
10 Claims. (Cl. 193—35)



3. In a conveyer, a support, a plurality of roller units each movably mounted with respect thereto, and means interconnecting adjacent roller units and providing an articulated joint therebetween.

2,158,365
OIL REFINING SYSTEM
William T. Hancock, Long Beach, Calif.
Application March 4, 1938, Serial No. 193,935
9 Claims. (Cl. 196—107)

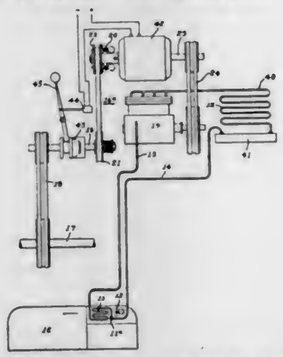


1. In a petroleum refining system in which oil is passed under substantial pressure through a preheater and then through a cracking still, a column comprising a vertically extending shell, a wall dividing the interior of said shell into upper and lower chambers and preventing liquid from flowing from the upper chamber into the lower chamber, means for passing preheated oil from said preheater through one of said chambers, a pump for then discharging the preheated oil to said cracking still, means for passing cracked oil vapors from the cracking still through the other of said chambers separately from the preheated oil flowing through the column, and means providing a pressure balance connection between the chambers to maintain the preheated and cracked oil leaving said preheater and cracking still under substantially the same pressure, whereby the pressure at the inlet side of said pump is made to correspond substantially to the pressure of the oil leaving the cracking still.

2,158,366
BRITTLE FUSIBLE RESIN
Norman D. Hanson, Bloomfield, N. J., and Ernest Kritzmacher, Manchester, Conn., assignors to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 27, 1936, Serial No. 71,310
6 Claims. (Cl. 260—25)

1. A method of producing fusible resins which are brittle when cold which consists in reacting together a phenol and a methylene-containing substance in the presence of from 0.5 to 1.5 parts of ammonia and from five to thirty-five parts of rosin to each one hundred parts of the phenol whereby a resinous condensation product is formed which is inherently brittle when cold independently of the presence of other substances.

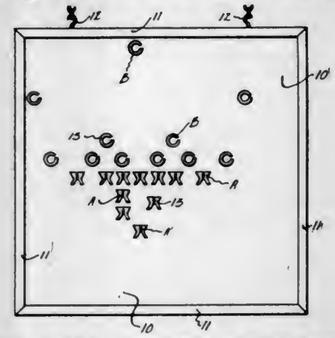
2,158,367
REFRIGERATING APPARATUS
Charles F. Henney, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 29, 1934, Serial No. 717,987
3 Claims. (Cl. 74—230.17)



3. In combination, a variable speed power source, a constant speed power source having a power transmitting shaft projecting at both ends, a driven member, means for transmitting power from one end of said shaft to said driven member, a variable ratio transmission between said variable speed power source and the other end of said shaft whereby said driven member tends to rotate at a more constant speed than said variable speed power source, and means whereby either power source may be used for operating said driven member.

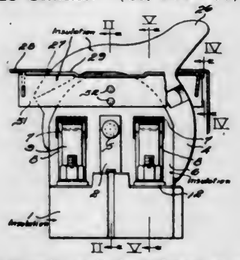
2,158,368
FORMATION DISPLAY DEVICE
Victor C. Hurt, Dallas, Tex.
Application September 14, 1935, Serial No. 40,554
2 Claims. (Cl. 35—29)

1. A display device for demonstrating athletic game plays and the like, comprising, an upright metallic field and plurality of magnetic player pieces supportable upon and movable across the field with magnetic adherence thereto, said pieces being of a modified form of the horseshoe type of magnet and placed sidewise upon the field, each piece being of substantial length and breadth in field-bearing extent but of slight vertical elevation, the respective pieces having an aperture therethrough, and the inner face of the piece in



the region of the aperture being countersunk, a marking element located with endwise movement in the aperture adjacent the field-abutting side of the piece, a thumb-screw in the outer portion of the aperture, and a spring element interposed in the aperture between the thumb-screw and the marking element for urging the latter into contact with the field.

2,158,369
ELECTRIC SWITCH
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application March 25, 1935, Serial No. 12,799
13 Claims. (Cl. 200—67)

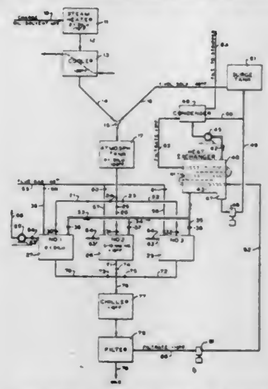


1. In an electric switch, a base, a rotary plate-like member pivotally mounted on said base, plates of insulating material associated with said base and disposed on opposite sides of said rotary member, contact means carried by said rotary member, stationary contact means adapted to cooperate therewith, an operating handle extending beyond said insulating plates, and a top shield comprising an insulating plate having a slot closely receiving said operating handle extension and supported on said first mentioned plates by tongue and slot connections providing ready demountability.

2,158,370
DEWAXING WITH EVAPORATIVE COOLING
Edwin C. Knowles, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 3, 1937, Serial No. 128,702
4 Claims. (Cl. 196—18)

1. In the dewaxing of wax-bearing mineral oil containing naturally-occurring or added wax

crystal modifying material, the method comprising diluting the oil containing wax crystal modifying material with a normally liquid dewaxing solvent comprising wax anti-solvent liquid and oil solvent liquid such that the oil and wax are substantially completely dissolved in the solvent mixture at a temperature of about 100 to 130° F., heating the mixture to a temperature of around 160 to 170° F. to condition the mixture for wax



séparation, cooling the mixture to about the temperature of incipient wax precipitation, atomizing the cooled mixture in a high vacuum zone in the form of dispersed droplets above the normal liquid level therein such that a substantial portion of the solvent vaporizes to provide evaporative cooling of the mixture with resultant precipitation of the bulk of the wax constituents, withdrawing the evaporatively cooled mixture, and removing the precipitated wax therefrom.

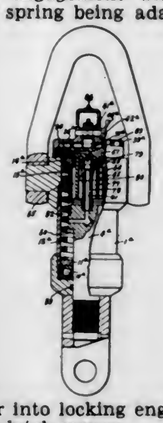
2,158,371
PARASITICIDAL CONTROL
Frank F. Lindstaedt, Oakland, Calif.
No Drawing. Application February 23, 1935, Serial No. 7,837
12 Claims. (Cl. 167—43)

5. A parasiticidal control for applying to plant surfaces comprising, an oleaginous mixture adapted to be added to water for spraying and including, approximately 98 per cent hydrocarbon oil, up to about 2 per cent emulsifier composed of sulphonated naphthenic acid and free napththenic acid in the proportion of approximately one part of the former to two parts of the latter, and approximately 4 per cent normal butyl acetate.

6. A parasiticidal control comprising, a hydrocarbon oil, and an ethereal acetate of the lower alkyl group consisting of propyl and butyl and amyl acetate.

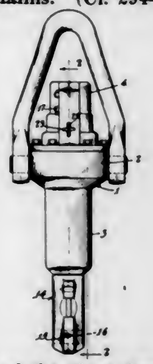
2,158,372
SPRING HOOK
Spencer W. Long, Redondo Beach, Calif., assignor, by mesne assignments, to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 3, 1936, Serial No. 94,011
12 Claims. (Cl. 294—82)

1. A rotation lock device for two relatively rotatable members incuding, a pivoted locking lever carried by one of said members, the configuration of the other of said members being such as to provide a locking position for engagement with said lever, latch means including a spring to hold the lever out of engagement with the latter said member, the spring being adapted to resiliently



urge the lever into locking engagement upon the release of the latch means.

2,158,373
SPRING HOOK
Spencer W. Long, Inglewood, Calif., assignor, by mesne assignments, to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 5, 1937, Serial No. 135,109
15 Claims. (Cl. 294—82)



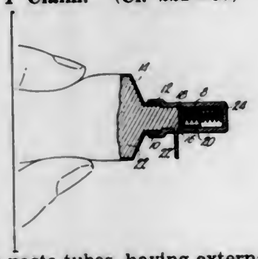
1. In a device of the class described, the combination of a body having a central bore, a pair of supporting shoulders on said body longitudinally spaced along the axis of said bore, a shank extending through the bore and provided with a pair of corresponding abutments, separate bearing means of different capacities supported on said shoulders, resilient means surrounding said shank within said bore and interposed between one of said abutments and the bearing means of lesser capacity, the other abutment and bearing means being adapted to provide a stop to limit the relative longitudinal movement of the shank and body.

2,158,374
SOLUBLE OILS
David R. Merrill, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application January 27, 1936, Serial No. 61,054
12 Claims. (Cl. 252—6)

1. An emulsion containing water and a freely

fluid emulsifiable oil comprising a mineral oil, a castor oil compound from the class consisting of castor oil fatty acids and their esters which are substantially insoluble in said mineral oil and in water and contain the free hydroxyl group in the hydrocarbon radical of the acid molecule, and a common solvent, said fatty acid compound and the common solvent each being present in a small proportion in the order of about 0.5% to about 5% of the mineral oil.

2,158,375
PASTE TUBE CAP
Vernon L. Miller, Bethel, Kans.
Application July 11, 1938, Serial No. 218,617
1 Claim. (Cl. 221—60)



A cap for paste tubes, having externally screw-threaded necks, comprising a thimble-like body provided with an aperture through the annular side wall thereof intermediate the ends; internal threads adjacent to the open end of the body for engagement with the screw-threads of the tubes to hold the cap in operative position; a piston reciprocably mounted in the body for movement to and from a position closing the aperture; and means for holding the piston in such position, said piston having an annular skirt, the outer face of which is in wiping contact with the annular inner face of the said body, said skirt having a plurality of grooves formed therein to present a plurality of edges serving to ride over the said face of the body as the piston is reciprocated

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2,158,376
ANTENNA SYSTEM
Wilhelm Moser and Hans Erich Paul, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 5, 1937, Serial No. 129,162
In Germany April 28, 1936
6 Claims. (Cl. 250—33)



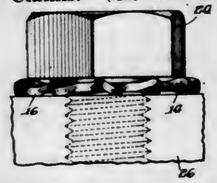
1. An antenna comprising a plurality of hollow tubular aerial elements arranged end to end substantially in a straight line, a two-conductor transmission line for enabling in-phase excitation of each of said aerial elements, one conductor of said transmission line comprising a hollow tube extending within the hollow spaces of said aerial elements and throughout the length of said antenna, a source of high frequency energy connected to said two-conductor transmission line, another line extending within and throughout the length of said one conductor and insulated therefrom, utilization apparatus at one end of said last line, and a source of energy at the other end of said last line.

2,158,377
GLIDER
Anthony P. O'Hare, West New Brighton, N. Y.
Application July 23, 1938, Serial No. 220,849
5 Claims. (Cl. 46—80)



3. A glider comprising a body, wings pivoted thereto and adapted to be folded rearwardly, resilient means cooperating with said wings and body and tending to move the wings to an open position, a fin attached to each wing and capable of offering sufficient wind resistance after launching and with the wings folded to overcome the tendency of said resilient means to open the wings until the glider is near the top of its flight.

2,158,378
LOCK WASHER
Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application March 20, 1937, Serial No. 132,053
5 Claims. (Cl. 151—35)

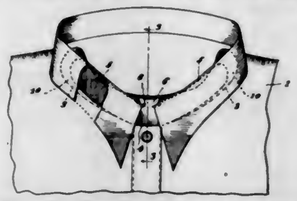


1. The combination of a work piece and a polygonal clamping member, a pronged washer interposed between the work piece and the clamping member, the ends of the teeth extending radially beyond the edge of the clamping member, the number of the teeth of the washer being greater by one than the number of sides of the polygonal clamping member.

2,158,379
COLLAR SUPPORT FOR SHIRTS
James A. Peyton, San Antonio, Tex.
Application May 16, 1938, Serial No. 208,242
2 Claims. (Cl. 223—83)

1. A collar support formed from a blank of sheet material, said blank having longitudinally curved front and rear edges and being slit from adjacent ends of its front edge to provide a front

section and a rear section of greater length than the front section, said slits extending at a forward incline towards their inner ends and having their outer end portions curved forwardly to provide the rear section with enlarged end portions constituting ears projecting forwardly across ends of the front section, the inner end portions of the slits being curved forwardly and then extending towards each other to provide the rear section with a central forwardly projecting extension having curved ends and integrally united to the front section between the slits, said extension being folded forwardly to dispose the



front section in front of the rear section and provide a supporting tab for the front section having a shank and a crosshead, the crosshead being united to the rear section for its entire length and having its lower edge free from the front section at opposite sides of the shank and providing members at opposite sides of the shank for overlapping and gripping wings of a collar when the device is disposed in position for use with the front section between folds of the collar and the rear section back of the front portion of the collar with its ears projecting upwardly from side portions of the collar.

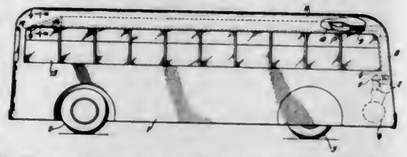
2,158,380

CARBURETOR AIR INTAKE SYSTEM

John F. Priess, Pontiac, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a corporation of Maine

Application October 8, 1937, Serial No. 167,950

5 Claims. (Cl. 180—54)



1. In a vehicle body, a forwardly disposed side wall window extending diagonally to the longitudinal plane of the body, a roof overhang above said window, a longitudinally extending duct having a vertical air entrance opening in said roof overhang and means connecting the rear of the duct to an engine air intake.

2,158,381

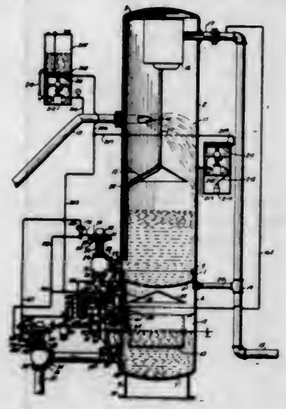
METERING APPARATUS

Gwynne Raymond, Oklahoma City, Okla.

Application November 9, 1936, Serial No. 110,021

6 Claims. (Cl. 73—224)

1. Apparatus of the character described including a metering chamber having inlet and outlet connections for liquid to be measured, inversely arranged valves controlling flow through said connections, means for actuating said valves responsive to predetermined maximum and minimum levels occurring in said chamber to effect isolated discharge of a unit volume of said liquid, means connected with said actuating means and responsive to temperature of the liquid to compensate for variation in volume incidental to temperature change of said liquid, and means



connected with the actuating means and responsive to pressure within the metering chamber to compensate for variation in volume incidental to changes in pressure occurring in said chamber.

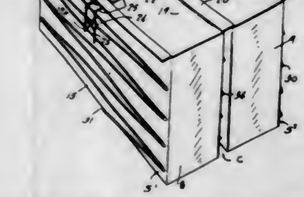
2,158,382

DRY EXPANSION UNIT

Ludwig Saha, Secane, Pa., assignor to Saha Manufacturing Company, Inc., Philadelphia, Pa.

Application November 19, 1937, Serial No. 175,352

4 Claims. (Cl. 62—126)



3. A dry expansion unit of the character described comprising a central panel defined by a pair of side walls and a top wall, there being a bottom wall integrally connected to each of the side walls in the lower edge thereof, a side plate at each side of the central panel and integrally connected to the respective bottom wall, a piece of tubing arranged in bends that are anchored to one of the side walls of the central panel and disposed therewithin, tubing arranged in bends and anchored to the exterior sides of the side plates, connections disposed beneath said bottom walls connecting the lower ends of the tubing on the side plates to the lower end of the tubing in the central panel, the tubing in said central panel terminating in an exhaust disposed intermediate the bends and at the upper part thereof, an inlet for a refrigerating medium disposed closely adjacent to the exhaust and at the middle of the upper part of the central panel, and connections between the said inlet and the upper ends of the tubes on the side plates.

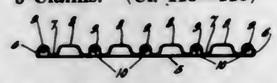
2,158,383

METHOD OF MAKING HEAT EXCHANGERS

Laurence P. Saunders, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 21, 1936, Serial No. 106,725

5 Claims. (Cl. 113—118)



1. In the manufacture of heat exchangers of the type having fluid flow tubes extending between and connecting spaced headers, the method of making a heat exchange tube, comprising forming a plate with alternately wide and narrow transversely spaced corrugations each extending continuously throughout the length of the plate from end to end thereof to open into the headers, fitting to the inner face of the corrugated plate and in surface contact with the apices of said corrugations a second and substantially flat plate, with inserts of bonding material contained whereby within the spaces afforded by the relatively narrow corrugations, and heating the assembly to flow the bonding material out of said spaces to the points of contact between the plates.

2,158,384

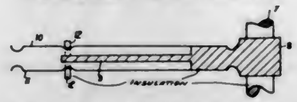
AUTOMATIC SWITCH FOR USE IN TELEPHONE OR LIKE SYSTEMS

Robert Norman Saxby, Liverpool, England, assignor to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware

Application April 25, 1936, Serial No. 76,375

In Great Britain May 15, 1935

10 Claims. (Cl. 200—166)



1. In a mechanical switch, a pair of wipers each having a tip for engaging opposite sides of a bank contact, an insulating member interconnecting said wipers and detachably retained by the configuration and relative position thereof so that a force acting on one wiper tip to separate it from its companion wiper tip moves both tips in the same direction without appreciable separation therebetween, and means for limiting to a predetermined amount the movement of both of said tips in said direction.

2,158,385

ELECTRIC COUPLING FOR VEHICLES

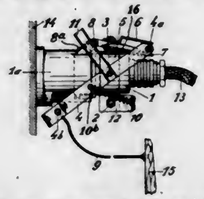
Carl Fritz Schwien, Berlin, Germany

Application November 26, 1937, Serial No. 176,677

In Germany September 2, 1936

4 Claims. (Cl. 173—332)

1. A device for automatically disengaging plug and socket connections of electric cables between coupled vehicles, comprising in combination a socket on one vehicle, a cable extending from a second vehicle, a plug on the end of said cable adapted to be inserted in said socket, a clip clamped on said plug, a two-armed fork pivotally mounted intermediate its length on said clip, a transverse rod connecting the free ends of the arms of said fork, a cover hingedly mounted on said socket and adapted to close said socket when connection is uncoupled, a strap on the outer side of said cover forming therewith a gap adapted to receive said transverse rod, a projection on the inner side adapted to engage the edge of said clip remote from the socket, a spring device in cooperative connection with said fork to press said transverse rod against the outer side of said cover and resiliently hold said projection in engagement position, a pull rope connected at one end to the second vehicle and at



its other end to the end of said fork remote from said transverse bar and adapted when said vehicles move apart to oscillate said fork against the action of said spring to bring said transverse rod to bear aaginst said strap and move said cover outwards to disengage said projection from said clip and then to pull said plug out of said socket.

2,158,386

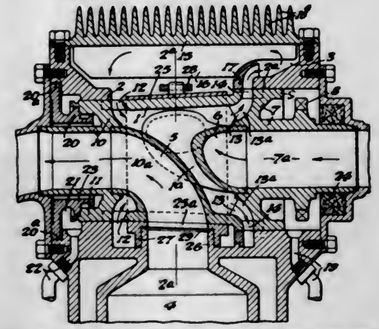
ROTARY VALVE FOR INTERNAL COMBUSTION ENGINES

Walter David Sykes, Sully, Penarth, South Wales

Application May 9, 1938, Serial No. 206,829

In Great Britain May 28, 1937

12 Claims. (Cl. 123—190)



1. Rotary valve for internal combustion engines comprising a hollow annular section valve body with inlet and exhaust port transfer passages therethrough substantially surrounded by the space within the said valve body and means for constantly circulating a liquid cooling medium through the valve and around and along said passages and also over the inner wall of the valve during rotation of the valve.

2,158,387

ELECTRIC SWITCH

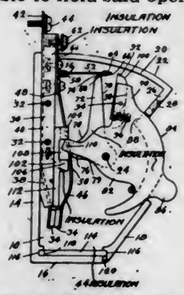
Elmer H. Taylor, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts

Application January 19, 1935, Serial No. 2,533

31 Claims. (Cl. 200—116)

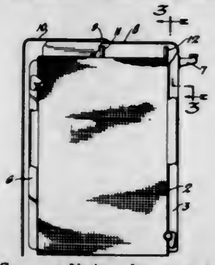
1. An electric switch comprising cooperating stationary and movable contact members, a resilient support for said movable contact member, said support having means providing a cam face, an operator having a toggle cam cooperating with said cam face and movable in a switch closing direction into substantially dead center position to hold said contact members in switch closed

position, and latching means engageable with said operator operable to hold said operator releasably



in a position corresponding to the engaged position of said contact members.

2,158,388
SURGE TANK
Fred D. Taylor, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 20, 1938, Serial No. 185,841
4 Claims. (Cl. 257—125)



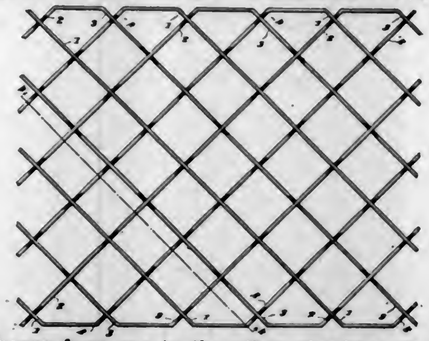
1. A cross flow radiator having inlet and outlet headers, a filling spout associated with one of the headers and by its position determining the maximum filling level, a tank extending across the top of the radiator and in open communication at the side with the outlet header, a baffle plate in said tank adjacent the outlet header allowing relatively free flow across the top thereof and restricting flow thereunder and vent means near the top of the tank beyond said baffle plate.

2,158,389
LUBRICATING OIL
Charles Cole Towne, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application April 30, 1936
Serial No. 77,149
7 Claims. (Cl. 87—9)

1. A lubricating oil of improved character comprising a mineral lubricating oil containing a minor proportion of the raffinate obtained from the extraction of a fatty oil selected from the group consisting of blown and polymerized fatty oils with a solvent selected from the group consisting of acetone, propyl alcohols and butyl alcohols.

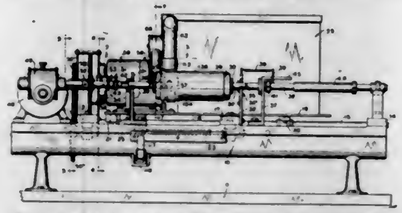
2,158,390
OPEN MESH FABRIC
Herbert E. White, San Francisco, Calif., assignor to The E. H. Edwards Company, a corporation of California
Application February 11, 1938, Serial No. 190,068
7 Claims. (Cl. 189—82)

1. An open mesh fabric comprising an inner flat fabric of crossed strands, and an outer fabric that surrounds the inner fabric, the said outer fabric comprising a plurality of continuous strands that extend continuously across the respective outer surfaces of the inner fabric and



change from one to the other of said surfaces at the edges of the inner fabric, the strands of the outer fabric lying wholly without the structure of the inner fabric throughout their extent, and the several strands being secured together at points where they cross one another.

2,158,391
SYSTEM AND APPARATUS FOR FACSIMILE TELEGRAPHY
Raleigh J. Wise, Dunellen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application June 12, 1936, Serial No. 84,935
18 Claims. (Cl. 178—6.7)



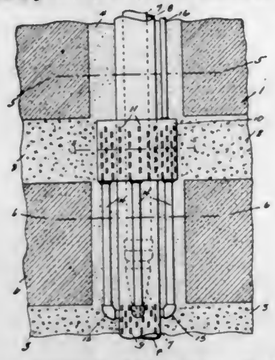
2. In apparatus for facsimile telegraphy, the combination of a subject matter holder, means to support said holder prior to a scanning operation, said holder having concentric support engaging means, supports for supporting said holder during a scanning operation adapted to cooperate with said support engaging means on said holder to thereby remove said holder from said first named supporting means, and driving means including means adapted to engage said holder to impart driving movement thereto.

2,158,392
BREAD AND BAKERY PRODUCT
Roger W. Ament, Inglewood, Calif., assignor to Kelco Company, Los Angeles, Calif., a corporation of Delaware
No Drawing. Application August 19, 1935,
Serial No. 36,905
15 Claims. (Cl. 99—90)

1. Bread containing an edible soluble alginate mixed with the usual bread-making ingredients.

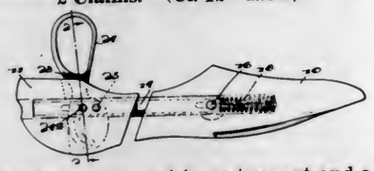
2,158,393
WELL APPARATUS
Harry E. Aulman, Woodland, Calif.
Application April 2, 1938, Serial No. 199,722
6 Claims. (Cl. 166—1)

1. A well apparatus comprising a well casing having an intake below the pumping water level, a supplementary casing carried by the well casing at a point disposed between the ends of the well casing and having a closed top and bottom and sides formed with openings and forming a chamber and positioned at a water bearing strata



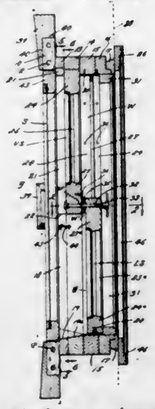
above the pumping water level and receiving water through the sides therefrom, and conduits connecting the supplementary casing with the well casing at a point below the pumping water level to prevent formation of air pockets and bubbles in water delivered to the well casing from the supplementary casing.

2,158,394
SHOETREE
Edmund J. Baas, Rochester, N. Y.
Application May 12, 1938, Serial No. 207,592
2 Claims. (Cl. 12—128.1)



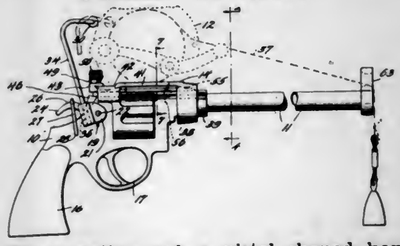
1. A shoe tree comprising a toe part and a heel part having aligned longitudinal bores, the forward portion of said heel part having a vertical slot and the rear portion thereof being otherwise solid, a connecting member having its opposite ends extending into said bores and provided adjacent to its forward end with longitudinally slotted side openings, a coil spring seated in the inner end of the bore of the toe part, beyond, and against the forward end of said connecting member, a pivot pin laterally within the toe part and extending through said slotted openings, said toe part having a vertical slot the width of, and above, its bore, into which the connecting member is hingedly swingable, said connecting member having longitudinally slotted vertical and horizontal openings intermediate its ends and spaced forwardly of its rear end, and having a portion rearwardly of its said openings projecting at all times within the said rear portion of the heel part, a lever disposed and having swinging guiding movement in the vertical openings of said member and the slot of the heel and pivotally joined to said connecting member at a point forwardly of the horizontal openings, said lever having a cam slot rearwardly of said pivot, and a pin laterally within the heel part and extending through the horizontal openings of the connecting member and the cam slot of the lever.

2,158,395
CIRCLE WINDOW
Forrest F. Bell, Clinton, Iowa, assignor to Curtis Companies Incorporated, Clinton, Iowa, a corporation of Iowa
Application September 7, 1937, Serial No. 162,722
11 Claims. (Cl. 20—40)



1. In a circle window, a circular frame having in one vertical plane thereof a lower half of predetermined radius and an upper half of a relatively greater radius, a semi-circular upper sash in said upper half of said frame and supported at the ends of its bottom rail on the shoulders of the frame which are provided by the transition of the frame from said lower half of one radius to said upper half of greater radius and a semi-circular lower sash supported in said frame in a second plane spaced from said first plane.

2,158,396
PISTOL ROD
William W. Birnstock, York, Pa.
Application January 8, 1937, Serial No. 119,695
6 Claims. (Cl. 43—19)

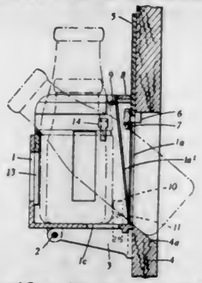


1. In a casting rod, a pistol shaped handle having a bore therein for receiving a rod, a rod fitting in said bore and having a bayonet slot therein, and means in the bore engaging in said bayonet slot whereby the rod may be removed.

2,158,397
DEVICE FOR DELIVERING MILK BOTTLES OR THE LIKE
Abraham Walton Brierley and Norman Dunkerley, Monkseaton, and John Hunter, Newcastle-on-Tyne, England
Application September 27, 1937, Serial No. 166,014
In Great Britain September 30, 1936
9 Claims. (Cl. 232—41)

1. A device for delivering milk bottles and the like comprising a support, a receptacle pivotally

mounted about a horizontal axis on said support, the upper portion of said receptacle being so formed that the orifice of the bottle is accessible from the exterior without its being possible to withdraw the bottle through said upper



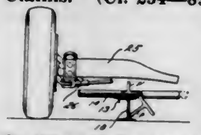
portion, an orifice in one of the sides of said receptacle through which the bottle is adapted to be inserted, a closure member adapted to open and close said orifice and means for retaining said receptacle in its uppermost position.

2,158,398
AUTOMOBILE TIRE
Tom Bryant, Cross Plains, Tex.
Application February 15, 1936, Serial No. 64,113
2 Claims. (Cl. 152—363)



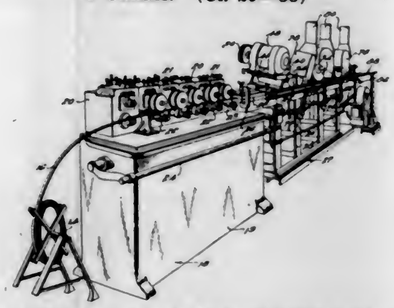
1. A divided pneumatic tire casing having an annular slit in one of the side walls, a recess adjacent said slit in which a continuous sliding fastening means is secured, means adjacent the outer circumference of the casing for securing said fastening means within said recess, said fastening means lying within the outer circumference of the said casing, said slit having a tapered side wall extending outwardly and downwardly from the inner surface of said casing and terminating within said recess, the opposite side of said slit being tapered inwardly and upwardly from said recess to correspond with the first mentioned side wall of said slit and adapted to form a continuous unobstructed inner surface within said casing when the said slit is closed by the said fastening means.

2,158,399
LIFT STRUCTURE
John F. Carter, Defiance, Ohio, assignor to Modern Equipment Corporation, Defiance, Ohio, a corporation of Ohio
Application August 4, 1937, Serial No. 157,323
4 Claims. (Cl. 254—89)



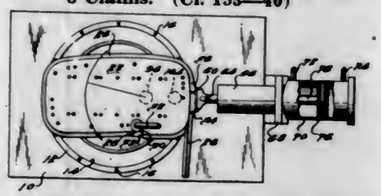
4. In an axle support for spaced rails of an automobile lift, a rectangular open frame, axle pad plates mounted on said frame adjacent the ends thereof and spanning the open space between the sides of said ends and pillar blocks pivoted relative to said frame and plates to assume positions on the plates or to swing through the open center of the frame to a depending position between the rails on which the axle support is mounted.

2,158,400
METAL FORMING WORKING DEVICE
Clarence P. Chamberlin, Pleasant Ridge, Mich., assignor to Metal Mouldings Corporation, Detroit, Mich., a corporation of Michigan
Application November 11, 1937, Serial No. 174,085
8 Claims. (Cl. 29—33)



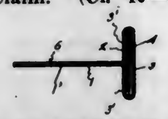
1. Metal forming and finishing apparatus comprising, in combination, a support for a shaped strip of metal being finished along which said strip is moved, the engaging surface of said support having a sectional shape complementary in shape to the sectional shape of said shaped strip of metal, a plurality of substantially aligned finishing wheels disposed above said support and adapted to engage and finish said strip, means to rotate said wheels in the direction of movement of said strip along said support, and driving means to drive said strip along said support past said finishing wheels, said last named means including metal forming rollers adapted to shape said strip before the strip is disposed on said support, and means for rotating said rollers in such a direction as to drive said strip toward and along said support.

2,158,401
POWER BENDER
Clarence P. Chamberlin, Pleasant Ridge, and John H. Toner, Detroit, Mich., assignors to Metal Mouldings Corporation, Detroit, Mich., a corporation of Michigan
Application May 11, 1938, Serial No. 207,348
8 Claims. (Cl. 153—40)



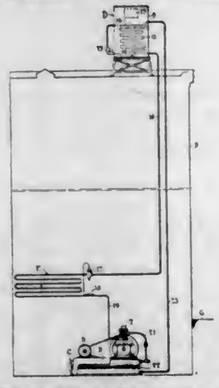
1. A metal bending machine comprising a stationary table, a die rotatably mounted on said table, means for rotating said die, said die having a working face against which the metal is bent during the rotation of the die so shaped that certain of the working portions of the face are more distant from the geometrical center of the die than other portions, an ironer element for yieldably holding the work against the working face of the die, and stationary means mounted on said table and engaged by said die so constructed that as the die rotates the geometrical center of the die moves toward and from said ironer element during the bending operation.

2,158,402
LABEL AND INDEX HOLDER
Coleman R. Chamberlin, Brooklyn, N. Y.
Application May 26, 1937, Serial No. 144,958
Renewed October 13, 1938
1 Claim. (Cl. 40—16)



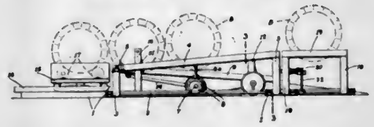
A label holder for attachment to a shelf comprising a strip-like member of bendable material having one longitudinal edge bent upon itself to provide a right angled T-head on the member of double thickness, the remaining portion of the member having one side coated with adhesive for attachment of the member to the shelf flat against the same, a strip of transparent material extending along said edge in covering relation thereto and having longitudinal edges bent over the edges of the head and secured thereto, said strip forming in conjunction with said head a fixed open ended sheath on the member, and a label strip slidably mounted in the sheath.

2,158,403
REFRIGERATION SYSTEM
Joseph R. Chamberlain, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application November 27, 1937, Serial No. 176,866
5 Claims. (Cl. 62—115)



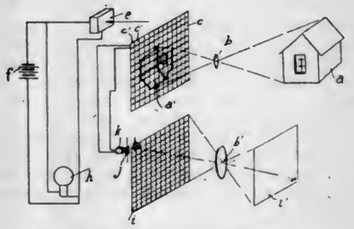
1. In a refrigeration system, a compressor for gaseous refrigerant; an evaporator; a condenser connected between the compressor and said evaporator for condensing the gaseous refrigerant and supplying it to said evaporator in the form of a liquid, said condenser being subject to a temperature differing substantially from that of the compressor; and a refrigerant sump subject to substantially the same ambient temperature as the compressor, interposed in the high pressure side of the system between said compressor and condenser for receiving refrigerant condensed from the system during standby periods and preventing it from reaching the compressor.

2,158,404
BARREL WASHING AND RINSING MACHINE
Frank C. Chapman, Modesto, Calif.
Application November 16, 1935, Serial No. 50,197
3 Claims. (Cl. 141—6)



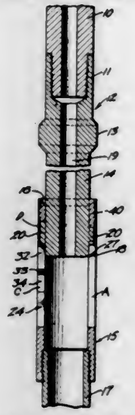
1. A barrel washing machine comprising a rack having means to support a row of barrels thereon, means to agitate said rack, a loading cradle disposed beyond one end of the rack and adapted to support a single barrel on a common level with the adjacent end of the rack, means mounting said cradle for agitating movement in the same direction as said rack, and means to releasably couple the rack and cradle together in alinement with each other whereby a barrel may be rolled from the cradle onto the rack regardless of the agitating movement of the latter.

2,158,405
DEVICE FOR RENDERING VISIBLE INVISIBLE RAYS
Henri Coanda, Clichy, France, assignor to Société Anonyme d'Etudes des Brevets et Procédés Coanda—Societe Coanda, a corporation of France
Application June 3, 1936, Serial No. 83,348
In Germany June 7, 1935
3 Claims. (Cl. 250—1)



1. A device of the type described, which comprises, in combination, a screen consisting of a multiplicity of photo-electric cells, optical means for projecting the image of an object onto said screen, a second screen, consisting of a multiplicity of elemental areas corresponding to said cells, respectively, an electric source of light for illuminating said second mentioned screen, an electric circuit for said source of light including a source of current, photo-electric relay means, connected with said circuit, responsive to the action of light rays falling thereon from the direction of said object, for controlling the current in said circuit in inverse relation to the illumination of said relay means, and a plurality of means, each for one of the photo-electric cells, for controlling the amount of light from said source adapted to strike the corresponding elemental area of the second mentioned screen, according to the illumination of said cell by the light rays from the object, whereby a visible image of substantially uniform intensity is formed on said second mentioned screen irrespective of the amount of visible light rays transmitted through said optical means from said object to said first mentioned screen.

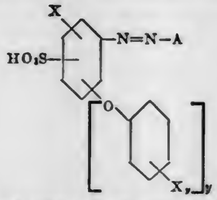
2,158,406
LINER SETTER
Charles H. Collett and Albert R. Thompson, Huntington Park, Calif.
Application May 17, 1937, Serial No. 142,994
6 Claims. (Cl. 255—27)



1. In combination with a drill string and a well liner, a tubular adapter attached to the well liner, a mandrel attached to the drill string and being separate from the adapter, lugs carried by the mandrel, receiving means for the lugs formed in the adapter whereby the mandrel and the adapter may be telescoped into interlocking relation with each other, and the mandrel and the adapter may have restrained longitudinal movement with relation to each other, and receiving means carried by the adapter and into which the lugs of the mandrel may fit in an intermediate position whereby the mandrel will be held against longitudinal movement with relation to the adapter and will move to one limit of its restrained longitudinal movement when longitudinal force is applied to the mandrel and the lugs are moved from their seated position, and additional receiving means formed in the adapter sleeve to receive the lugs of the mandrel upon manipulation of the drill string to lock the mandrel and the adapter sleeve against relative longitudinal movement.

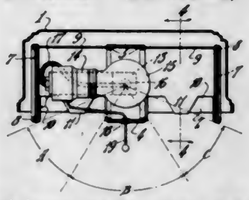
2,158,407
AZO DYESTUFFS AND THEIR MANUFACTURE
Achille Conzetti, Basel, Switzerland, assignor to the firm J. R. Geigy S. A., Basel, Switzerland
No Drawing. Application March 12, 1938, Serial No. 195,659. In Switzerland March 19, 1937
9 Claims. (Cl. 260—193)

3. Monoazodyestuffs corresponding to the general formula



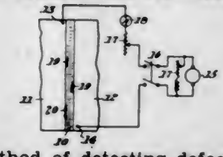
wherein the X's mean substituents selected from the group consisting of H, Cl and CH_3 and wherein the *y*'s represent a number of 1 and 2 and A means the radical of a 5:6-dihydro-1:3-dihydroxybenzene.

2,158,408
BED LAMP
Silvio Davio, Springfield, Mass.
Application February 23, 1938, Serial No. 192,015
4 Claims. (Cl. 240—4)



4. In a bed lamp construction, a shade member, a pair of independently operable shutters revolvably supported in said shade member and axially aligned, each of said shutters being formed with a light opening, a partition member separating said shutters, a lamp supported on and centered in said partition member, whereby light beams emitted by said lamp through said openings will be separated by a shadow cast by said partition.

2,158,409
TESTING METHOD AND APPARATUS
Alfred V. de Forest, Marlboro, N. H., and Foster B. Doane, Wilmette, Ill., assignors, by mesne assignments, to Magnaflux Corporation, Chicago, Ill., a corporation of Delaware
Application April 11, 1936, Serial No. 73,916
4 Claims. (Cl. 175—183)

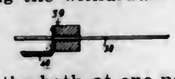


2. The method of detecting defects in a weld by making electrical contact therewith on opposite sides of the weld, but at points closely adjacent the weld but spaced at a material distance therealong, passing current through the weld by means of these contacts, applying finely divided paramagnetic material and noting the degrees of adherence of the particles to the weld or the base metal adjacent thereto.

2,158,410
METHOD AND APPARATUS FOR THE RECOVERY OF METAL FROM A LIQUID
Albert B. Doran, Los Angeles, Calif., assignor to International Cinema Inc., Los Angeles, Calif., a corporation of California
Application June 15, 1935, Serial No. 26,793
Renewed October 8, 1938
6 Claims. (Cl. 204—5)

1. In electrolytic apparatus for recovering a chemical substance from a liquid, a recovery cell having a bath of the chemical bearing liquid therein, a plurality of anodes suspended in the bath, a plurality of rod-form cathodes suspended in the bath, an inlet for the liquid at an elevated level in the bath, another inlet for the liquid at a relatively low level in the bath, one of said inlets being laterally displaced in a horizontal direction with respect to the other, means for supplying the liquid to the bath through the said inlets, and means for withdrawing liquid from the cell at a point substantially opposite to the said inlets.

5. A method of recovering a metal from a metal bearing liquid, which consists in suspending a plurality of rod-form cathodes in the bath of the liquid, withdrawing liquid from one side of the bath, and forcing the withdrawn liquid into the



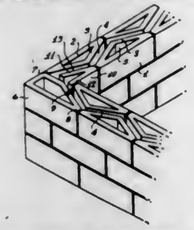
opposite side of the bath at one point at a lower level within the bath and at another point at a higher level within the bath, and with the points of admission of the liquid displaced laterally from each other in a horizontal direction.

2,158,411
METHOD FOR RESTRAINING OR PREVENTING THE ACTION OF PROTEOLYTIC ENZYMES
Leonard Elion, Scheveningen, Netherlands
No Drawing. Application May 24, 1938, Serial No. 209,808. In the Netherlands June 11, 1937
10 Claims. (Cl. 99—150)

1. The treatment of at least one product from the group consisting of protein containing products liable to proteolytic conversion and proteinase containing products suitable for effecting proteolytic conversion, for the purpose of restraining or preventing the action of proteolytic enzymes, comprising incorporating into such product a small quantity of iodine halogenide.

7. Proteins liable to enzymatic proteolysis in which a small quantity of iodine halogenide is incorporated.

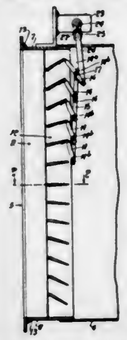
2,158,412
WALL CONSTRUCTION
Charles R. Emery, Dearborn, Mich.
Application March 4, 1938, Serial No. 193,979
15 Claims. (Cl. 72—39)



1. A corner construction for a wall built of blocks arranged in courses one above the other comprising hollow blocks, one of said blocks constituting an outside corner piece and having a projection extending rearwardly of the exposed faces thereof, and two additional blocks having faces which meet to form the inside corner and each having a projection spaced from the projection of said outside corner piece to form an air space around said corner.

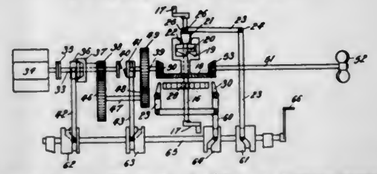
2,158,413
DUAL DEFLECTOR ARRANGEMENT FOR VENTILATING SYSTEMS
Archie Feinberg, Minneapolis, Minn., assignor to United States Air Conditioning Corporation, Minneapolis, Minn., a corporation of Minnesota
Application April 25, 1938, Serial No. 204,132
6 Claims. (Cl. 98—40)

1. In a deflector arrangement for a ventilating system, the combination of a casing open at the front and rear and including side walls and top and bottom walls, front and rear sets of deflector blades in said casing with the blades in one set extending parallel with the side walls of the casing and with the blades in the other set extending parallel with the top and bottom walls of the casing, the blades in each set being inclined edgewise into substantially different angular inclinations, means providing a plurality



of arms, each operatively connected to an associated blade of a group of blades in one set, means connecting all of said arms in said group together, and means providing an adjustable connection between each arm and said connecting means so that each blade in said group may be adjusted into different angles of edgewise inclination with respect to others in said group.

2,158,414
PROPULSION GEAR FOR SHIP'S BOAT
Ivan Rupert Fleming and Frank Elder Fleming, Liverpool, England
Application January 27, 1938, Serial No. 187,266
In Great Britain January 29, 1937
3 Claims. (Cl. 115—24)



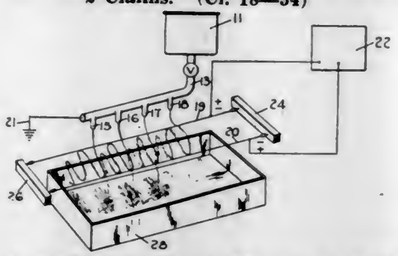
1. In a ship's lifeboat having a screw propeller on a propeller shaft and a manually operated gear for driving the propeller shaft, the combination with the said manual gear of a prime mover, means for coupling the prime mover to the propeller shaft, a one-way driving device located between the prime mover and the hand propelling gear to prevent the hand propelling gear being driven by the prime-mover when the latter is working, a clutch device for coupling the hand propelling gear to the prime mover for starting the latter, a forward and reverse gear for controlling the forward and reverse movement of the hand propelling gear, means for de-clutching the prime mover from the hand propelling gear when the latter is driven in reverse, operating means for the said clutches and reverse gear, a single control lever for controlling the forward and reverse gear and the interlinking of the prime mover with the hand propelling gear, and coupling means between the said control lever and the respective operating means for the said clutches, whereby the entire propulsion system can be controlled by said single control lever.

2,158,415

METHOD OF PRODUCING ARTIFICIAL FIBERS

Anton Formhals, Mainz, Germany, assignor of forty-five one-hundredths to Richard Schreiber-Gastell, Mainz, Germany

Application July 28, 1937, Serial No. 156,168
2 Claims. (Cl. 18—54)



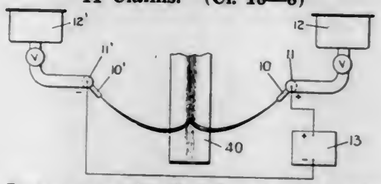
1. A method for the production of artificial fibers which comprises extruding a stream of spinning solution from a neutral spinning jet into a neutral atmosphere a substantial distance to become partially set, then passing the same between spaced, high potential electrically charged electrodes of opposite polarity in which the polarity is periodically alternated, thereby whipping said stream of spinning solution alternately in opposite directions to cause the same to be drawn out into fine fibers and then collecting said fibers in the form of a sliver.

2,158,416

METHOD AND APPARATUS FOR THE PRODUCTION OF ARTIFICIAL FIBERS

Anton Formhals, Mainz, Germany, assignor of forty-five one-hundredths to Richard Schreiber-Gastell, Mainz, Germany

Application July 28, 1937, Serial No. 156,169
11 Claims. (Cl. 18—8)



1. In an apparatus for the electrical spinning of fibers a set of spinning jet electrodes, a second set of spinning jet electrodes spaced from said first set, means for connecting said sets of jet electrodes to opposite poles of a source of high electrical potential, a moving collecting means positioned substantially in the neutral zone intermediate said sets of jet electrodes for collecting fibers from both of said sets of jet electrodes, the space between said sets of jet electrodes being sufficiently great to prevent the passing of a spark therebetween due to their opposite charges of electricity and being sufficiently small to cause an attraction to each other of the oppositely charged fibers spun from the said jet electrodes.

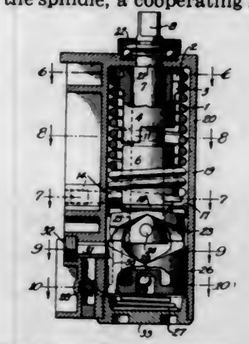
2,158,417

CLOSING AND CHECKING UNIT

Forrest C. Garrison, Chicago, Ill., assignor to The Oscar C. Rixson Co., Chicago, Ill., a corporation of Illinois

Application April 13, 1938, Serial No. 201,672
6 Claims. (Cl. 16—53)

1. A closing and checking unit of the class described for one-way or two-way action, comprising a supporting structure having mounted therein a spindle for oscillatory motion around its axis, a coil spring surrounding said spindle with an actuating connection with the spindle for tensioning the spring in either direction of rotation of the spindle, a cooperating spring abut-



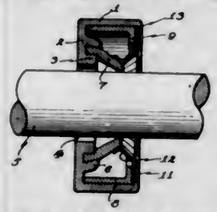
ment on the supporting structure, a checking plunger mounted for reciprocation against oil resistance in said supporting structure, a spring for actuating said checking plunger in one direction, a cam surface on said checking plunger, and a cooperating actuating element for the checking plunger carried by the spindle.

2,158,418

OIL SEAL

Remi J. Gits, Chicago, Ill.

Application September 14, 1936, Serial No. 100,695
2 Claims. (Cl. 288—1)



1. As an article of manufacture, an oil seal comprising an annular shell having an inwardly extending radial flange at one end, an annular flexible sleeve-like packing member having one end secured in said shell adjacent the flange end thereof and having an inwardly converging side wall extending axially toward the other end, an inwardly projecting radial backing flange adjacent said other end of said shell, a contracting member comprising a flat ring-like portion disposed against and extending radially across the outer face of said backing flange, said contracting member having a plurality of resilient fingers extending axially into said shell from the inner margin of said ring-like portion, and said fingers converging inwardly toward said packing member and contractibly engaging the converging end margin of the same, and means clamping the outer margin of said ring-like portion against said backing flange.

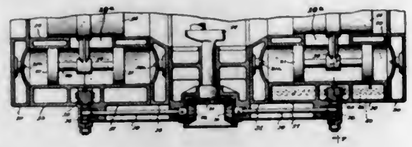
2,158,419

INTERNAL COMBUSTION ENGINE

George Grover, Jr., Hadley, Mich.

Application September 17, 1937, Serial No. 164,385
2 Claims. (Cl. 123—56)

1. In an internal combustion engine of the type having a plurality of oppositely disposed cylinder blocks each having a central longitudinal bore and a plurality of opposed double ended cylinders disposed parallel with and around said central bore, a composite piston in each of said blocks comprising a sleeve slidably fitted in said central bore, pistons facing each end of said cylinders and means connecting said sleeve and said pistons rigidly together, a crankshaft, piston rod



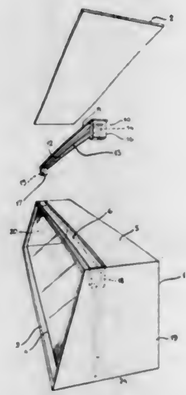
means for operatively connecting said crankshaft and said sleeves, and intake and exhaust valves in said cylinder blocks, means for actuating said valves comprising a ring gear, driving means for actuating said ring gear from the crankshaft, and risers on said ring gears for actuating said valves.

2,158,420

SHOW COUNTER OR DISPLAY CASE

Boris Hagelin and Birger Kock, Stockholm, Sweden

Application December 29, 1936, Serial No. 118,146
In Sweden December 31, 1935
6 Claims. (Cl. 240—6)



1. An illuminated show counter or display case comprising walls forming a box-like structure and having a transparent section provided in said walls, at least one gaseous discharge tube, having a luminous portion between electrode-carrying end portions which radiate relatively more heat than the said luminous portion, mounted in said box-like structure, the luminous portion of said discharge tube being in optical communication with the interior of said box-like structure without being substantially heat insulated from said interior, and heat-insulated compartments surrounding the ends of said discharge tube for shielding the interior of said box like structure from the heat radiated from said ends only, said compartments being mounted within the confines of said box like structure, and means for dissipating the heat from said compartments.

2,158,421

OVERHEAD TROLLEY SYSTEM

Richard Roy Holden, deceased, late of Highland Park, Ill., by Bertha Belle Holden, executrix, Highland Park, Ill., assignor, by mesne assignments, to R. Roy Holden, Inc., Chicago, Ill., a corporation of Illinois

Application November 14, 1936, Serial No. 110,812
11 Claims. (Cl. 191—38)



1. A double conductor trolley system for a vehicle provided with a pair of current collectors, comprising two main conductors, a branch conductor for each said main conductor and a pair of switches at the intersections of said main and branch conductors, each of said switches having a movable tongue, and means for guiding said tongue into position to direct its respective current collector along said main conductor or from said main to said branch conductor upon contact of a current collecting member with said tongue, a contact device operatively connected with said guide means for controlling the same, arranged to be engaged by one of said current collectors before the latter contacts its movable switch tongue, said switches and contact device being so constructed, arranged and connected with respect to each other and to the trolley wires that the movable tongues will be moved to one position only when one of the current collectors engages the movable tongue of one of said switches while the other current collecting member is in contact with the contact device adjacent the other switch.

2,158,422

MANUFACTURE OF SENSITIZED PHOTOGRAPHIC PRINTING PAPER AND CLOTH

John Holden, Reddish, Stockport, England

No Drawing. Application February 26, 1938, Serial No. 192,891. In Great Britain February 27, 1937
7 Claims. (Cl. 95—6)

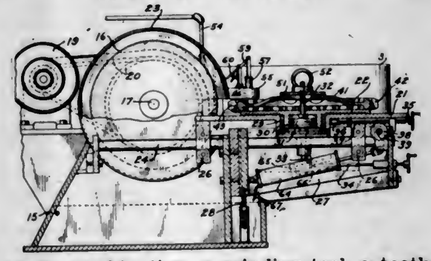
1. "Blue print" paper suitable for producing prints by the semi-dry development process having on its surface a non-acid coating comprising a soluble iron salt, an iron-cyanogen compound, a buffer salt and a soluble nitrite.

2,158,423

METHOD OF AND APPARATUS FOR GRINDING TOOTHED WHEELS

Ernest Huff, Elm Grove, Wis., assignor to Wehr Steel Company, West Allis, Wis., a corporation of Wisconsin

Application November 3, 1937, Serial No. 172,532
14 Claims. (Cl. 51—92)



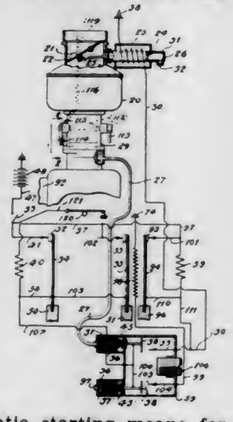
13. In combination, a grinding tool, a toothed

wheel support movable toward said tool, means for rotatably supporting a toothed wheel for cooperation of its teeth in succession with said tool, means for locking the toothed wheel to said support, and means for reciprocating said support in a plane intersecting the wheel axis during cooperation of the teeth of the wheel with said tool and for simultaneously advancing the support toward said tool during said reciprocation.

2,158,424
AUTOMATIC CHOKE

Scott F. Hunt, Detroit, Mich., assignor to Milton E. Chandler, Detroit, Mich.

Application December 12, 1935, Serial No. 54,024
7 Claims. (Cl. 123—119)



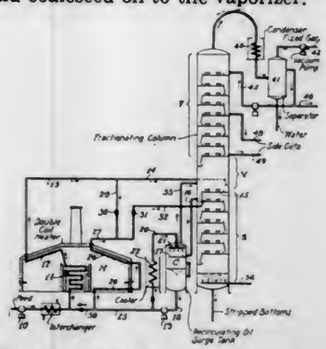
1. Automatic starting means for an internal combustion engine having an electric circuit, external carbureting means, a mixture outlet leading therefrom and an air entrance leading thereto comprising a valve mounted in said air entrance, means responsive to the air flow through said entrance for opening said valve, a solenoid electrically connected to said circuit and having a core mechanically connected to said valve so as to close the same when said solenoid is energized by said circuit, a temperature responsive switch mounted on said engine for opening said circuit when the engine reaches a predetermined temperature, a resistance in said circuit between said switch and said solenoid, a second switch in said circuit located between the first switch and the solenoid so as to short-circuit said resistance when closed, a vacuum chamber having a passage connected to said mixture outlet, a restriction therein, means responsive to the temporary difference of pressure in said chamber and said mixture outlet for holding said second switch closed until the pressure in the chamber becomes substantially equal to that in the mixture outlet, resilient means for opening said second switch at all times except when the vacuum in the mixture outlet is less than that in the chamber.

2,158,425
VACUUM STEAM DISTILLATION OF HEAVY OILS

Edward G. Ragatz, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application January 4, 1936, Serial No. 57,560
12 Claims. (Cl. 196—73)

9. In a process for vacuum steam distillation of heavy oil the steps comprising heating the fresh feed oil to be distilled, introducing the said heated oil into a vaporizer, withdrawing unvaporized oil from the vaporizer, coalescing said withdrawn unvaporized oil in contact with a spray of cool, previously coalesced oil in a coalescing chamber, withdrawing coalesced oil from said chamber and reheating and returning said coalesced oil to the vaporizer.

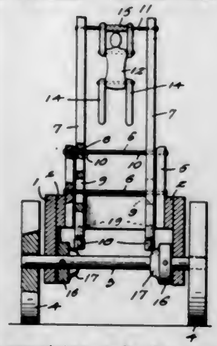


11. In a process for distillation of heavy oil the steps comprising heating the fresh feed oil to be distilled, introducing said heated oil into a flashing zone and separating vapors and unvaporized oil, withdrawing unvaporized oil from the flashing zone, said withdrawn unvaporized oil being in substantial equilibrium with the vapors leaving the said flashing zone, reheating said withdrawn unvaporized oil and introducing said reheated oil separately into a stripping zone and passing the same in countercurrent contact with the stripping vapors to effect additional vaporization, contacting substantially all of the oil in the flashing zone with substantially all of the vapors from the stripping zone and thus commingling the vapors from the stripping zone and flashing zone, said commingled vapors constituting said first mentioned vapors leaving the flashing zone and condensing substantially all of said commingled vapors.

2,158,426
WHEELED ACROBATIC FIGURE TOY

Richard Regenburgh, Sr., Totawa Boro, N. J.

Application September 23, 1938, Serial No. 231,443
5 Claims. (Cl. 46—107)

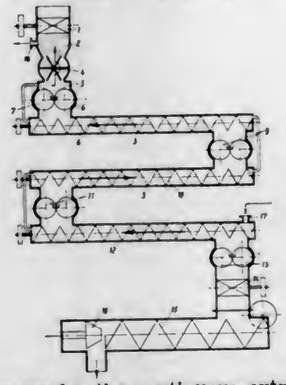


1. A toy comprising a body, ground engaging wheels for said body, uprights carried by said body and fulcrumed for rocking movement, flexible means bridging the upper ends of said uprights and secured thereto in taut condition, a jointed figure fixed to the flexible means and the latter being twisted to cause swinging movement of the figure upon rocking movement of the uprights, and means for rocking the uprights and operated from the wheels upon forward and backward movement of the toy.

2,158,427
PROCESS FOR EXTRACTING OIL OR FAT CONTAINING SUBSTANCES AND THE LIKE

Joseph Reichert, Wiesbaden, Germany

Application July 7, 1936, Serial No. 89,428
In Germany May 10, 1935
2 Claims. (Cl. 87—6)

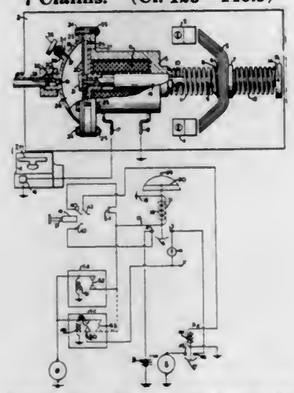


1. A process for the continuous extraction of oil seeds with solvents, which comprises comminuting the seeds in their passage through the extraction plant in the solvent in a series of separate steps in which they are ground to a successively increasing fineness and passing the solvent in countercurrent to the seeds through said extraction plant.

2,158,428
BATTERY ISOLATING SWITCH SUITABLE FOR USE WITH INTERNAL COMBUSTION ENGINES

Gilbert Robertson, Benoni, Transvaal, Union of South Africa, assignor to Etienne Jean Rocher, Johannesburg, Transvaal, Union of South Africa

Application January 21, 1938, Serial No. 186,259
In the Union of South Africa and Great Britain February 20, 1937
7 Claims. (Cl. 123—146.5)

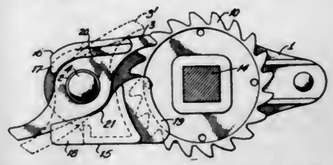


1. An automatic battery isolating switch comprising battery isolating contacts, a movable rod for closing and opening said contacts and including a magnetic portion, an electromagnetic coil adjacent to said magnetic portion, a flexible diaphragm attached at its centre to said rod and held stationary at its periphery, a pneumatic chamber of which said diaphragm forms a wall, and an adjustable leakage valve fitted to said chamber.

2,158,429
HAND BRAKE HOLDING MECHANISM

William H. Sale, Richmond, Va., assignor to Naylor Patents Corporation, a corporation of Delaware

Application October 4, 1937, Serial No. 167,253
3 Claims. (Cl. 188—81.1)

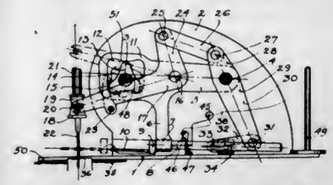


1. A holding mechanism for hand brakes comprising a pawl and a ratchet wheel, a pawl plate having a bearing for said pawl and having side walls around said bearing and partly housing the pawl with inwardly extending flanges located to extend over and confine the pawl when the pawl is in operative position and being shaped to clear the pawl in another position, and said pawl plate having a bearing for supporting the ratchet wheel in position to prevent the pawl from moving clear of said flanges.

2,158,430
WHIP-STITCHING DEVICE

James Torsten Sandberg and Sven Ragnar Bjereus, Stockholm, Sweden

Application April 10, 1936, Serial No. 73,750
In Sweden April 11, 1935
8 Claims. (Cl. 112—162)



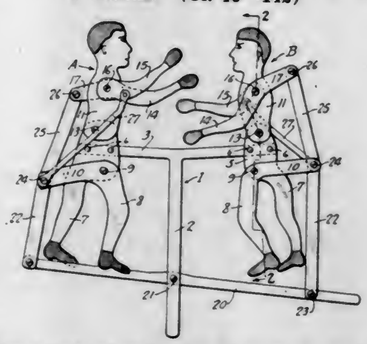
1. A device for whip-stitching fabric in combination with an ordinary sewing machine, comprising a frame, a lever turnably mounted on said frame, a thread carrier mounted on one end of said lever for introducing a continuous thread alternately above and below the fabric in back and then in front of each piercing of the fabric by the needle of the sewing machine, a cam disk mounted on said frame and driven by the sewing machine, an arm connected to said lever and actuated by said cam disk so as to be moved alternately into an upper and a lower position thereby causing said thread carrier to be moved alternately above and below the fabric, a pivot on said arm, a bell crank lever turnably mounted on said pivot and having its one end connected with the needle bar of the sewing machine and its other end connected to the first mentioned lever so as to impart a reciprocating motion to said thread carrier.

2,158,431
PENCIL ATTACHMENT
Eli Sanders, Bald Knob, Ark.
Application October 18, 1937, Serial No. 169,728
1 Claim. (Cl. 35—77)



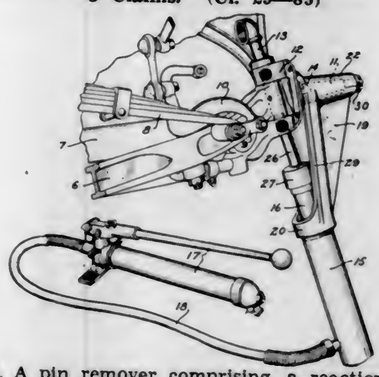
A pencil attachment comprising inner and outer sleeves, an annular rib formed on the inner sleeve and received in an annular groove formed on the outer sleeve for rotatably connecting said sleeves and preventing relative endwise movement thereof, the outer sleeve extending beyond one end of the inner sleeve, the opposite end of the outer sleeve terminating short of the end of the inner sleeve to expose an end portion of said inner sleeve, said exposed end portion being provided with a pointer in the form of a notch, one of said sleeves being provided with a spiral row of spaced openings extending from one end to the opposite end of the sleeve, the other sleeve being provided with a slot extending substantially the full length thereof and opening outwardly through one end to provide a pointer and to form a window through which said spiral row of openings may be exposed one at a time during relative rotation of the sleeves, and a core of cylindrical shape fitted in the inner sleeve and displaying calculating characters exposed through said openings.

2,158,432
TOY
Frederick H. Schulenberg, Lima, Ohio, assignor of one-half to Bert Hibbard, Lima, Ohio
Application August 12, 1938, Serial No. 224,477
6 Claims. (Cl. 46—142)



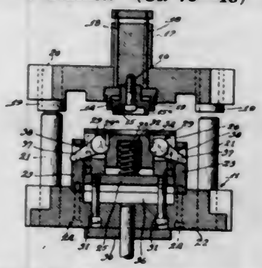
1. In a toy of the class described, a frame, a jointed figure carried thereby, said figure having a hip section fixedly attached to the frame, at least one leg pivoted to the hip section and provided with a rearward extension at its upper end, a body section pivoted to the hip section, a pair of arms, one at least being pivoted to the body section, a rockable control bar pivoted to said frame, and multiple link means connecting said bar and the pivoted leg and arm thereof to impart various movements to such leg and arm and to the body of the figure when the bar is operated.

2,158,433
SPINDLE PIN REMOVER
Edward H. Schultz, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 16, 1937, Serial No. 180,088
5 Claims. (Cl. 29—85)



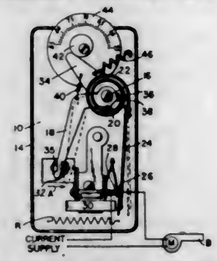
4. A pin remover comprising, a reaction element formed for attachment to one of the relatively movable members of a jack and having a bored hub at its opposite end, the axis of the bore of said hub being disposed at an oblique angle relative to the axis of movement of said jack members and said hub being located entirely at one side of said axis of movement and the bore thereof being formed for coaction with the wheel spindle of a wheel supporting bracket having a pivot bolt alineable with said axis of movement, and a pushing element formed for attachment to the other jack member in alinement with said pivot bolt.

2,158,434
APPARATUS FOR MAKING A BUNG RING
Sol Schwartz, Chicago, Ill.
Original application January 21, 1937, Serial No. 121,431. Divided and this application September 20, 1937, Serial No. 164,671
7 Claims. (Cl. 78—18)



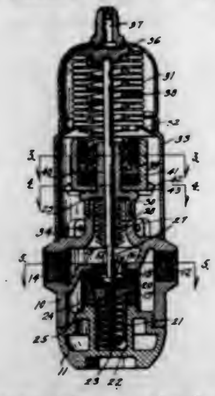
1. An apparatus for operating upon a bushing ring to displace the material of the flange of the ring in a manner to produce inwardly converging dished edges when viewed in cross section, comprising a plurality of pivotally mounted jaw members, the axes of which are spaced equidistantly from the central axis of the ring, and means for pivoting said jaw members, said jaw members having arcuate engaging faces eccentrically disposed with respect to the axes thereof.

2,158,435
WALL TEMPERATURE COMPENSATED ROOM THERMOSTAT
Burton E. Shaw, Adel, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a corporation of Iowa
Application March 29, 1937, Serial No. 133,579
4 Claims. (Cl. 200—139)



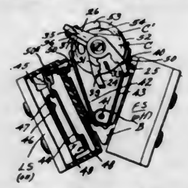
1. In a wall temperature compensated room thermostat, means responsive to room temperature and means for varying the operative position thereof in accordance with a wall temperature different than the room temperature by setting the room thermostat for lower temperature operation when the wall temperature decreases and vice versa.

2,158,436
WATER VALVE
Burton E. Shaw, Goshen, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application September 23, 1937, Serial No. 165,353
8 Claims. (Cl. 137—153)



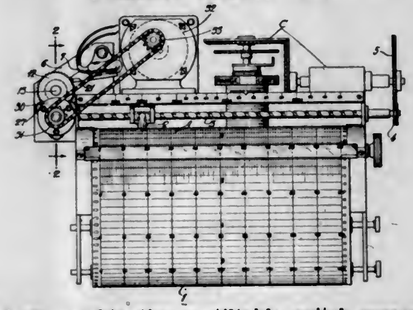
1. In a water valve, a valve body having an intake and an outlet, a valve seat in said valve body, a valve plug normally seated against said valve seat and means for unseating said valve plug including a hollow shell, the outer end of said shell forming a bellows chamber, a bellows therein, a pressure connection to said bellows, an adjusting spring in said bellows, a valve plug stem extending from said valve body through said shell and into said bellows and actuated by movement thereof and adjusting means for said spring and located in said shell between said bellows and valve body, said adjusting means including a rotatable and nonslidable adjusting member and a slidable and non-rotatable spring engaging member threadedly connected therewith for adjusting the tension of said spring upon rotation of said adjusting member, said hollow shell having a circumferential slot therein through which access to said adjusting member may be had for rotating it.

2,158,437
COMBINATION FAN AND LIMIT SWITCH STRUCTURE
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application February 21, 1938, Serial No. 191,646
10 Claims. (Cl. 200—138)



1. In a combination fan and limit switch structure, a fan switch, a limit switch, a rotatable rod for actuating said switches, a temperature responsive element operatively connected with said rod for rotating it in response to changes of temperature in a plenum chamber or the like and means for actuating said switches from said rod comprising a cam coacting with said fan switch, said cam being rotatable relative to said rod, a disc fixed to said rod, a pair of stops movable circumferentially relative to said disc, means for locking said stops relative to said disc, said cam having means projecting between said stops whereby said cam is rotated in one direction by one of said stops and in an opposite direction by the other of said stops, the distance between said stops determining the width of differential of operation of said fan switch, a second cam rotatable on said rod, means for locking said second cam relative to said disc, said second cam coacting with said limit switch to operate it through a predetermined range and means to effect a change in differential of operation of said limit switch comprising a third cam cooperating with said second cam to change the relative effective cut in and cut out points of said second cam.

2,158,438
RELAY DEVICE
William E. Shenk, East Orange, N. J., assignor to United States Steel Corporation, New York, N. Y., a corporation of New Jersey
Application June 25, 1936, Serial No. 87,304
4 Claims. (Cl. 200—136)



1. In combination, a tiltable switch means, a gear train adapted to tilt said switch at a determined and set position of said gear train,

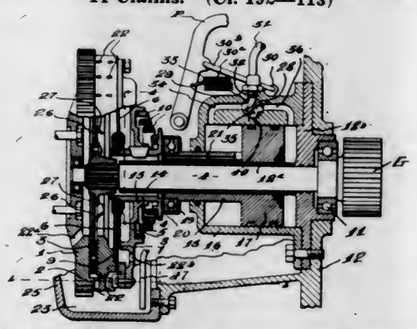
means to actuate said gear train, a differential coupling connecting said means to said gear train, and means operatively connected through said differential coupling to said gear train to actuate said gear train in either direction independently of the actuation of the gear train by said gear train actuating means.

2,158,439
ADJUSTABLE SERVICE PENCIL
John Sonne, Detroit, Mich.
Application December 28, 1936, Serial No. 117,729
4 Claims. (Cl. 120—15)



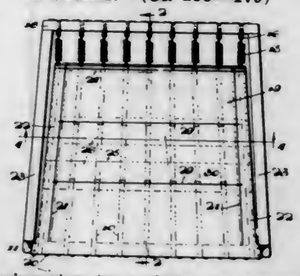
1. An adjustable pencil adapted for replaceable leads and used therewith, comprising an elongated tubular casing, a hollow conical point section rotatably mounted on one end thereof, a lead sharpener cone adjustably mounted within said conical point section, a lead advancing screw rotatably mounted within the tubular casing, finger engageable means mounted near the casing point for rotating the lead advancing screw within the casing, and spring adjusting means mounted behind the finger engageable means.

2,158,440
FRICTION CLUTCH MECHANISM
Charles B. Spase, Nedrow, N. Y., assignor to W. C. Lipe Inc., Syracuse, N. Y., a corporation of New York
Application July 31, 1936, Serial No. 93,672
14 Claims. (Cl. 192—113)



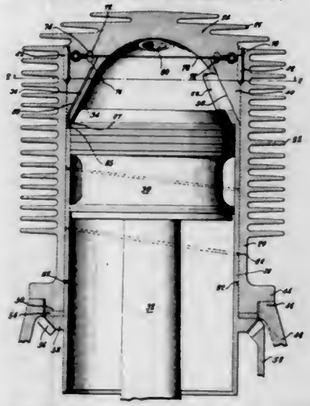
1. In a friction clutch including a shiftable member shiftable into and out of engaged position, and operating means for the shiftable clutch member, the combination of force feed means for injecting oil into the clutch against the portion of the clutch adjacent the friction face, when the shiftable member is in engaged position, including a conduit having a control valve therein and connections between the valve and said operating means to close the valve, when said operating means is operated to shift the shiftable clutch member out of its engaged position.

2,158,441
SPRING STRUCTURE FOR FURNITURE
Martin Thum, Rochester, N. Y.
Application April 1, 1938, Serial No. 199,504
4 Claims. (Cl. 155—179)



1. A spring structure of the character set forth including a frame, a plurality of parallel inelastic metallic straps extending across the frame and rigidly in connection at one end with one of the frame members, a series of elastic springs in connection with the opposite ends of the straps and connecting the same with the opposite frame member, a fabric overlying the said straps having an edge thereof secured to the first-mentioned frame member and having its opposite edge engaged and held by the said spring members at the spring engaged ends of the straps, and a web crossing the lower surface of said fabric and secured thereto intermediate the ends of the straps, said web having guide openings through which the straps extend at spaced points in the lengths of the straps, and said web having portions thereof also at spaced points in the lengths of the straps interposed between the latter and the upper fabric.

2,158,442
SLEEVE VALVE ENGINE
William D. Tipton, Stoneleigh, Md.
Application April 19, 1938, Serial No. 202,945
16 Claims. (Cl. 123—190)



1. An internal combustion engine comprising a cylinder defining a combustion chamber, a valve sleeve in said cylinder subject to outward movement by pressure within the combustion chamber, a thrust bearing between said cylinder and sleeve opposing said outward movement, a sealing ring for said sleeve axially movable in said cylinder, complementary convergent surfaces carried by said ring and sleeve, said convergent surface of said ring containing intake and exhaust ports.

2,158,443
PRODUCING VITREOUS ENAMELING STOCK AND THE LIKE
Gordon L. von Planck, San Francisco, Calif.
No Drawing. Application November 18, 1936, Serial No. 111,488
2 Claims. (Cl. 75—58)

1. The method of manufacturing degasified and deoxidized low metalloid steel adapted for use as vitreous enameling stock which comprises forming a bath of low metalloid steel, incorporating therein a proportion of titanium to partially deoxidize and degasify the bath, pouring the same into a mold to solidify and incorporating in the metal in the mold a sufficient amount of calcium and silicon to completely degasify and deoxidize the metal, the relative proportions of the calcium and silicon being such as to form readily fusible calcium-silicate compounds.

2,158,444
GENERAL UTILITY TOOL
John A. Wardle, South Jordan, Utah
Application January 29, 1936, Serial No. 61,325
2 Claims. (Cl. 143—43)



2. In a portable small hand operated tool of the class described, the combination of a small diametered motor mounted with the drive shaft extending through a housing extending from one end of said motor; a gear casing on the end of said housing; a hollow cross shaft through said gear casing extending beyond each end of said housing; gears to transmit rotary motion to said cross shaft from the motor shaft; a stationary shaft through the hollow cross shaft carrying a toothed cutter guard on each end thereof; means to lock said stationary shaft by one end to said shaft housing; and rotary toothed cutter blades mounted to rotate with said cross shaft against said stationary cutter guards.

2,158,445
MUSICAL TOY
Sidney Weiss, University City, Mo.
Application June 2, 1938, Serial No. 211,355
8 Claims. (Cl. 46—182)

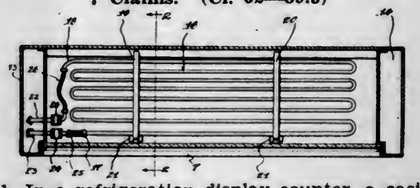


1. A toy of the character described, comprising a closed hollow body member having an apertured wall portion for application to the mouth of the user, and a second apertured wall portion spaced from the first said wall portion, a diaphragm within the body member overlying the apertures in, and adapted to vibrate against said second wall portion, and resilient means urging the diaphragm against said second wall portion.

2,158,446
COMPOSITION ADAPTED TO LIBERATE FREE IODINE
Ellis L. Werft, Allentown, Pa.
No Drawing. Application February 1, 1938, Serial No. 188,184
2 Claims. (Cl. 167—53.1)

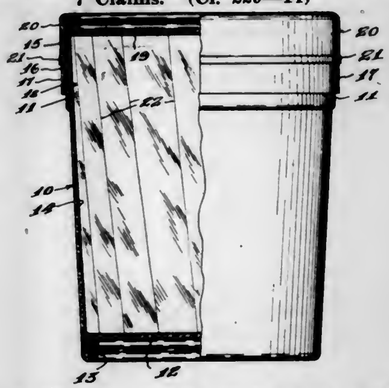
1. An iodine generating composition suitable for administration to fowl through the esophagus consisting of an iodide of an alkali metal and an iodate of an alkali metal, the constituents of said mixture being adapted to react together and liberate free iodine upon contact with the acidic reagent present in the gastric juices of said fowl.

2,158,447
DISPLAY COUNTER
Robert Whitsett, Detroit, Mich., assignor to The Gratiot Fixture & Supply Company, Detroit, Mich., a corporation of Michigan
Application April 29, 1938, Serial No. 205,041
7 Claims. (Cl. 62—89.5)



1. In a refrigeration display counter, a casing having a base, a vertical front wall, a top, a sloping front window between the front wall and top, a rear wall extending between the base and top and having lower and upper openings and closures therefor, a transverse substantially horizontal cooling coil in said casing having inlet and outlet openings, supply and return pipes for refrigerating fluid located in said casing, means for movably mounting said coil in said casing, and flexible means connecting said coil openings respectively to said supply and return pipes whereby said coil may be moved from its transverse, substantially horizontal position to an inclined position substantially parallel with said sloping front window.

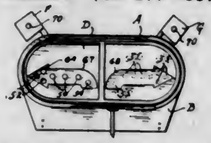
2,158,448
CONTAINER
Isaac L. Wilcox, Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York
Application February 28, 1936, Serial No. 66,259
7 Claims. (Cl. 229—14)



1. A container comprising a tubular body, a

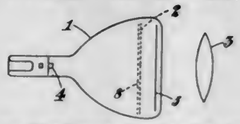
bottom closure secured in one end of the body, a bag of thin, flexible material arranged in the body with the open end of the bag overlying the upper edge of the body and extending downwardly about the outer surface of the body, a ring member encircling the overlapping portion of the bag and being arranged in spaced apart relation from the upper part of the container, a top closure for the container formed with a depending annular flange encircling the overlapping portion of the bag with the lower edge of said flange abutting against the top edge of said ring.

2,158,449
WARNING SIGNAL
Walter J. Wilde, Spanish Fork, Utah
Application April 1, 1935, Serial No. 14,094
2 Claims. (Cl. 177—337)



1. In a vehicle signal, the combination of a back plate having a removable cover therefor with sight openings through said cover; coacting signal flags pivotally connected to each other and to the back plate links connected to each flag; a solenoid connected to said links to operate said flags simultaneously; other spaced apart signal covering plate operating solenoids mounted one on each side of said first solenoid; signal covering plates actuated by said last mentioned solenoids; separate switches to actuate either one or the other of said last mentioned solenoids as desired; switch plates mounted above each of the signal plate operating solenoids one of said switches to be closed when one of the solenoids has been operated; a wire connecting the two switches together; a wire connecting the last mentioned wire with a switch plate mounted under said first mentioned solenoid; a contact mounted on the core of the first mentioned solenoid to engage said switch plate thereunder; a wire connecting this contact with a signal light and with the solenoid to energize said solenoid when either of the switch plate solenoids have been actuated to move the signal flags and turn said light on at the same time, with each operation of either one of the signal plate operating solenoids.

2,158,450
ELECTRON DISCHARGE DEVICE
Peter William Willans, London, England, assignor to Baird Television Limited, London, England, a British company
Application October 5, 1937, Serial No. 167,445
In Great Britain October 8, 1936
1 Claim. (Cl. 250—153)



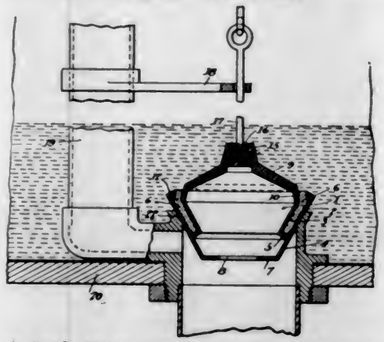
An electron discharge device for the transmission of television or like signals comprising an evacuated envelope, a source of an electron stream, a storage grid electrode adapted to have a charge image induced thereon, which electrode is permeable to said electrons according to the form of the charge image on said storage grid electrode and is adapted to be maintained at a potential near to that of the source of the electron stream, an auxiliary grid adapted to be positively biased and arranged in juxtaposition to the storage grid electrode, on the side of the storage grid remote from the source of the electron stream so that a positive field penetrates through the interstices of the storage grid electrode, and a collecting electrode placed on the side of the storage electrode remote from the source of electrons, which charge image during operation of the device controls the electron stream which is arranged to pass through successive elemental areas of the storage grid electrode and to impinge on the collecting electrode so as to give rise to a train of signals.

2,158,451
LOCK SYSTEM FOR AUTOMOBILES AND THE LIKE
Roger C. Wilson, Alta, Iowa
Application May 9, 1938, Serial No. 206,810
10 Claims. (Cl. 70—264)



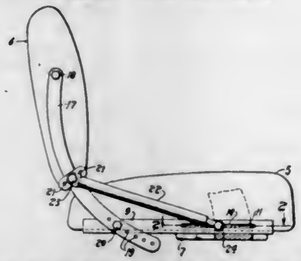
1. In a locking system for automobiles and the like having a plurality of doors; lock means therefor comprising an electrically operated locking device for all of said doors and a plurality of key-operated switches connected in circuit therewith to selectively operate said locking device to locked or unlocked positions.

2,158,452
TANK VALVE
Leslie W. Winship, Los Angeles, Calif.
Application September 7, 1937, Serial No. 162,633
5 Claims. (Cl. 4—56)



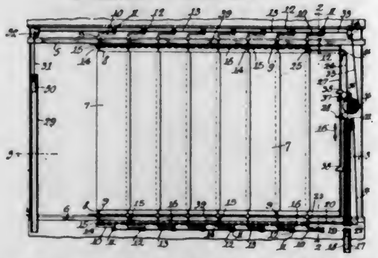
1. A tank valve member and a seat therefor, the tank valve member including a body, a flexible wall spaced therefrom to provide a water-receiving chamber, a plurality of thin reinforcing webs connecting said flexible wall and said body and dividing said chamber into a plurality of segments, and the outer engaging surface of the wall being inclined so that the pressure of the water within the chamber exerts a sealing pressure between the flexible wall and the seat.

2,158,453
CHAIR
Glenn D. Wood, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana
Application February 18, 1937, Serial No. 126,387
1 Claim. (Cl. 155—163)



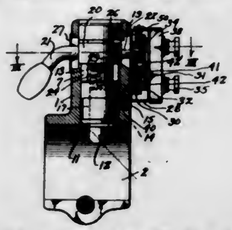
A chair embodying therein a seat, a flange-like member along each side of the seat and having a longitudinal slot therein and having transverse ribs and grooves on the inner face thereof above and below said slot, a back rest, supporting arms therefor, one on each side of the seat and each having a pivotal connection at one end with a flange-like member along the associated side of the seat, a runner for each flange-like member and having a screw threaded opening therein and also having complemental grooves and ribs for engagement with those on the associated flange-like member, a brace at each side of the seat and having a pivotal connection at one end with an associated back rest supporting arm, spaced lugs on each runner, one on each side of the opening therein and adapted for engagement in the slot of the associated flange-like member, and a threaded member carried by the other end of each brace, extending through the slot in said flange-like member and threaded into the opening in the runner engaged with said flange-like member, said lugs having a depth greater than the depth of the said ribs and grooves to prevent a turning of said runner when said threaded member is turned.

2,158,454
VENETIAN BLIND STRUCTURE
Carlos Chavez Zubiria, Mexico, D. F., Mexico
Application February 12, 1938, Serial No. 190,283
In Mexico October 15, 1937
3 Claims. (Cl. 156—17)



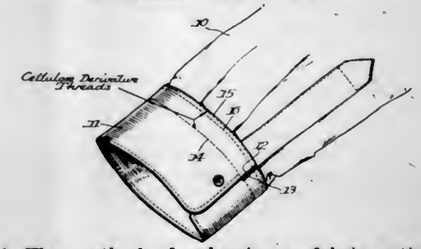
1. In a Venetian blind, upper and lower guide members, slats, shafts to which the slats are secured, said shafts extending through the guide members, bearing members on the shafts and engaging the guide members, arms formed at the ends of the shafts, means connected with the arms for pivoting the arms to vary the spaces between adjacent slats, counterbalancing weights adapted to hold the slats in their positions of adjustment and means for connecting the slats whereby the slats may be moved longitudinally of the guide members and folded one upon another.

2,158,455
AUTOMOBILE LOCK
Herbert S. Jandus, Detroit, Mich., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application November 18, 1937, Serial No. 175,227
1 Claim. (Cl. 200—42)



In a lock of the type described, a locking bolt shiftable axially to steering locking or unlocking position, stop means for holding said bolt against rotation, an ignition switch, a rotatable switch actuating lever structure having interlocking connection with said lock bolt so as to be non-rotatable for switch closure when the bolt is in locking position, and spring toggle mechanism between said switch and said lever structure so arranged that any backlash of said lever structure due to manufacturing tolerances in said stop means and interlocking connections will be insufficient to move said toggle mechanism through its neutral line whereby to prevent closure of said switch by said backlash when said lock bolt is in locking position, said lever being operable when said locking bolt is in unlocking position a distance sufficient only to move said switch for passage of the toggle mechanism through its neutral line, said toggle mechanism then effecting independently of said lever the final setting of the switch to circuit opening or closing position and holding the switch in such set position.

2,158,456
ADJUSTABLE FABRIC ARTICLE
Charles Kaplan, Lawrence, N. Y., assignor to The Shirtcraft Company Incorporated, New York, N. Y., a corporation of New York
Application October 14, 1938, Serial No. 235,025
3 Claims. (Cl. 2—269)



1. The method of enlarging a fabric article, said article comprising fabric consisting substantially entirely of yarns of natural fibres and having a tuck therein held in the tucked relation by a cellulose derivative thread stitched along the tuck, said method comprising applying a solvent for the cellulose derivative to the article

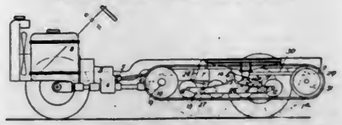
and to the stitched thread, thereby softening and substantially destroying the tensile strength of said thread, and pulling out the tuck without physically removing the thread.

2,158,457

VEHICLE FOR MIXED PROPULSION BY WHEELS AND ENDLESS TRACKS

Adolphe Kégresse, Paris, France

Application May 27, 1937, Serial No. 145,140
In France June 2, 1936
10 Claims. (Cl. 180—9.1)



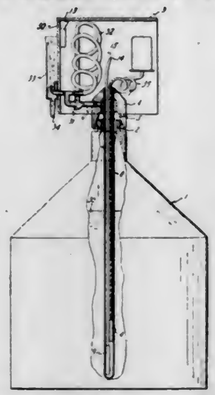
2. In a high speed vehicle adapted to be driven by ground wheels and endless tracks, a chassis, a pair of front steering and driving ground wheels, an endless track on each side of the chassis, front and rear pulleys supporting said track, said pulleys being fixed against vertical movement, an oscillating suspended rear axle located between the axes of said front and rear pulleys, levers mounted on said rear axle having arms extending forwardly and rearwardly from said rear axle, journals mounted at the ends of said levers, rear ground-engaging wheels carried by the journals at one end of said levers, and endless track-engaging roller bogies carried by the journals at the other end of said levers and positioned between said front and rear pulleys.

2,158,458

METHOD AND APPARATUS FOR EVAPORATING LIQUID OXYGEN

John A. Mathis and Roland W. Milan, Pinckneyville, Ill.

Application March 26, 1938, Serial No. 198,226
19 Claims. (Cl. 219—38)



1. The method of evaporating liquid oxygen, which comprises transferring to the same electrically generated heat and varying the rate of transfer of said heat to vary the rate of evaporation.

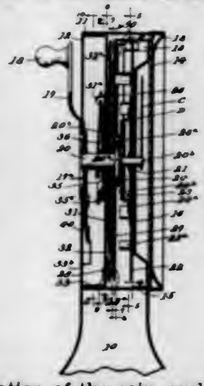
2,158,459

REGISTERING BANK

Harry T. Kingsbury, Keene, N. H.

Application September 23, 1936, Serial No. 102,232
13 Claims. (Cl. 235—100)

1. In a registering bank, a casing; a member revoluble in the casing and including a coin holder for receiving coins of various denominations, a cam member selectively actuated in accordance with the denomination of the coin and having selecting means thereon positioned during such actuation, means responsive to the size of the coin for actuating the cam member and mounted on said revoluble member, and selector devices controlled by the selecting means on the cam member; registering means including a registering member to be advanced in accordance with



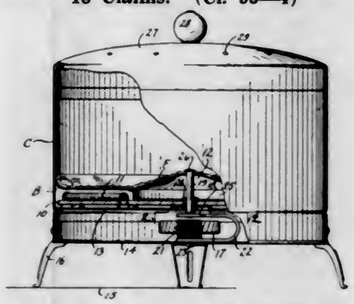
the denomination of the coin, and a friction device for causing said registering member to turn with the revoluble member; a detent on the casing for holding the registering member against advancement and operated for releasing the registering member by a selector device when the latter is under control of the cam member, and means on the revoluble member for restoring the detent for holding the registering member after the latter has been advanced a distance corresponding to the denomination of the coin positioned in the revoluble member.

2,158,460

CORN POPPER

Andrew S. Knapp, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri

Application June 9, 1937, Serial No. 147,268
18 Claims. (Cl. 53—4)



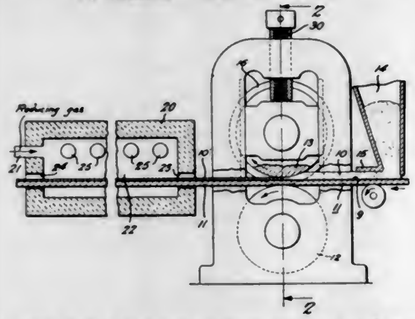
1. In a corn popper, a casing having a cylindrical upright wall and a bottom member adapted to be heated, a false bottom in said casing movably mounted relative to the bottom member for supporting and agitating the unpopped corn, said false bottom having perforations of sufficient size to permit said unpopped corn positioned on said false bottom to at least partially extend therethrough, said false bottom being spaced from said bottom member a distance less than the minimum dimension of a kernel of corn so that the extending portions of the unpopped corn kernels contact with said bottom member and the major portions thereof remain above the false bottom, and means for heating said bottom member.

2,158,461

METHOD OF MAKING BEARINGS

Roland P. Koehring and John M. Hildabolt, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 23, 1936, Serial No. 81,432
13 Claims. (Cl. 29—149.5)



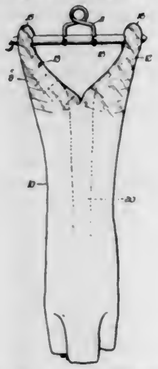
1. The steps in a continuous method of fixing a lining to a ferrous metal back, comprising: providing a thin high lead-content prime coating upon a ferrous metal strip, distributing a uniform layer of powdered bearing metal upon the coated surface of said strip and compacting it in place thereupon with a high pressure and thereby causing said layer of bearing metal to adhere firmly to said strip, then removing said high pressure upon said compacted lining and subsequently sintering said compacted bearing metal layer in situ upon said strip in a reducing atmosphere and thereby greatly increasing its strength and directly bonding it to said strip.

2,158,462

PROCESSING OF VEAL CARCASSES

Harry J. Koenig, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

Application July 31, 1937, Serial No. 156,667
5 Claims. (Cl. 99—174)



1. The method of processing veal carcasses including removing the hide after killing, tightly wrapping the carcass with a semi-moistureproofed material with overlapping edges to lessen evaporation of moisture and reduce contact of the air with the carcass, permitting collection of moisture upon the surface of the carcass beneath said material, and bleaching the surface of said carcass by said moisture.

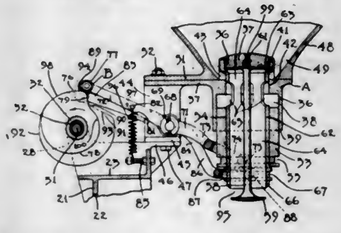
3. A method of treating a veal carcass to bleach the same and reduce shrinkage including suspending the carcass with the rear legs spaced substantially apart, tightly wrapping the rear legs with a partially moistureproofed material, springing said legs into close proximity to reduce the body circumference and reduce the internal cavity, wrapping the body portion and remainder of said carcass while so contracted in said moistureproofed material and allowing body moisture to collect upon the external surface beneath said wrappings to bleach the same.

2,158,463

DOUGH CUTTER

Alexander S. T. Lagaard, Minneapolis, Minn., assignor to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota

Application January 31, 1938, Serial No. 187,912
14 Claims. (Cl. 107—14)



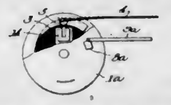
1. A dough cutter comprising a cylinder having a vertical cylinder chamber open at its ends, valve means at the upper end of the cylinder for controlling the flow of dough into the cylinder chamber, an annular piston within said cylinder and die means disposed within said piston projecting through the lower end of said cylinder and controlling the extrusion of dough from said cylinder chamber.

2,158,464

CONTROLLER

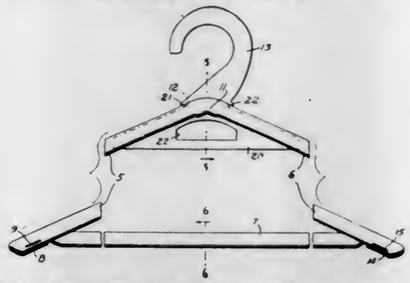
Anthony H. Lamb, Elizabeth, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application March 28, 1936, Serial No. 71,531
16 Claims. (Cl. 200—56)



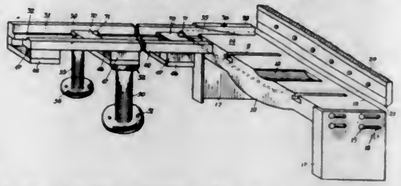
1. A controller for electric circuits and of the type including a moving system for displacing a contact in accordance with the measured value of a factor, and a contact element cooperating with said contact, characterized by the fact that said contact is of magnetic material, and said contact element is mounted on a rotatable support which carries a permanent magnet to provide a firm engagement of said contact and contact element when the same are moved into proximity by said moving system.

2,158,465
GARMENT HANGER
Harry W. Ligon, Atlanta, Ga.
Application April 13, 1938, Serial No. 201,837
13 Claims. (Cl. 223—87).



1. A garment hanger formed from sheet material and comprising two arms, a cross bar, and a hook; the arms and the cross bar having a substantially semicircular transverse cross-section; the cross bar having integral hinged relation with one of said arms and a slip connection with the other of said arms; and said hook passing through the juncture of said arms.

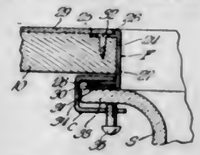
2,158,466
GAUGING DEVICE
Warren E. Little, Youngstown, Ohio
Application July 8, 1937, Serial No. 152,572
11 Claims. (Cl. 164—59)



11. A gauging device for a machine having ing working elements comprising a guide connected with and extending outwardly from said working elements, a carrier slidably supported on said guide, an indexing element supported on said carrier and movable from a position behind to a position outwardly of the outer material engaging surface of said guide, means biasing said element to outward position, means to lock said carrier in selected position along said guide, said indexing element being provided with a cam surface on the side thereof opposite said working elements whereby material moving along said guide and towards said working element will cause said indexing element to move to a retracted position behind said outer surface of said guide.

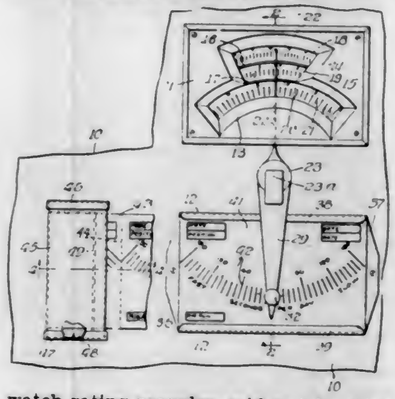
2,158,467
TABLE TOP CONSTRUCTION
Sern Madsen, Clinton, Iowa, assignor to Curtis Companies Incorporated, Clinton, Iowa, a corporation of Iowa
Application November 3, 1938, Serial No. 238,582
16 Claims. (Cl. 4—189)

1. In a table top construction, a top member having a sink opening therein, a metallic banding element for trimming said opening, said banding element having a flange engaging that portion of the top surface of said top member immediately surrounding said opening, a wall to cover the edge of the opening and a second flange extending under said top member and spaced from the bottom surface thereof, a sink supported by said second flange, said second flange having a recess in the bottom face thereof, a sealing compound in said recess, said sink having its rim contacting



with said sealing compound and clamp means for holding and retaining closed the joint between said sink rim, sealing compound and second flange, said clamp means being connected with said second flange.

2,158,468
WATCH RATING RECORDER
Byron J. McCleary, Chicago, Ill.
Application April 5, 1937, Serial No. 135,199
1 Claim. (Cl. 234—63)



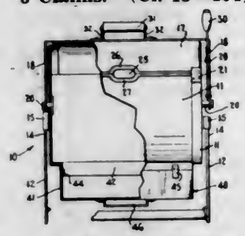
A watch rating recorder, said watch rating recorder being adapted for stroboscopic watch rating instruments, said recorder comprising a movable card, said card having two sections showing graduations representing seconds units, the zero second graduation being substantially in the lower central portion of said card, the graduations extending on each side of said zero second representation showing ascending seconds units, one set of said graduations to show fast watch rating, the other set of graduations to show slow watch rating, a card frame, said frame being adapted to hold and position said card, a pivoted arm, said arm bearing a punch at its outer end, said punch being adapted to mark either said graduations representing the fast seconds units on one side of the zero graduation or the slow seconds units on the other side of the zero graduation, said seconds units graduations being arranged segmentally on said card with relation to the axis of said pivoted arm, a dial frame, a rotating dial, said rotating dial having graduations, said graduations representing different values than the graduations on said card, the graduations on said dial being concentrically arranged with respect to the graduations on said card, said card frame and said dial frame being in substantially the same plane, a second arm or pointer pivotally secured on the same axis with said first mentioned arm, a metallic friction member, said arm or pointer being adapted to swing over said dial graduations,

said punch arm and said pointer arm being frictionally joined together by means of said metallic friction member so that they may be operated as a single unit, or the punch arm and the dial pointer may be swung independently of each other, the apparent displacement of a reading on the rotating dial being represented by a punch mark on the graduations upon said card.

2,158,469
CORK COMPOSITION
Charles E. McManus, Spring Lake, N. J., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
No Drawing. Application September 14, 1934, Serial No. 744,098. Renewed September 30, 1938
3 Claims. (Cl. 106—23)

1. A cork composition comprising cork granules, rubber, bodied tung oil, a protein adhesive, and a resin in amount to constitute a binder, and a plasticizer, said cork predominating by volume.

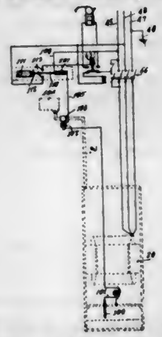
2,158,470
DUST MOP CLEANER
Alfred McMillan, New York, N. Y.
Application April 18, 1938, Serial No. 202,768
3 Claims. (Cl. 15—104)



1. A device of the type described, useful in cleaning of mops and the like, comprising a horizontally supported substantially cylindrical casing having an opening formed in the top thereof extending along at least a major portion of the length thereof, the sides of said opening being defined by lines in radially spaced parallelism relative to the casing axis; a U-shaped bracket, pivoted at its ends to end parts of said casing near the centers thereof, substantially freely rotatable about the exterior of said casing in spaced relationship thereto; a cover for said opening, mounted on and rotatable with said U-shaped bracket, said cover being curved and substantially conforming in shape and outline to said opening in said casing, adjacent edges of said cover and said casing being provided with cut-away formations cooperating to define an opening for a mop handle; and means for collecting dust and the like from within said casing.

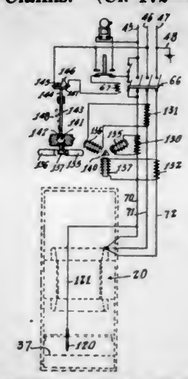
2,158,471
CONTROL SYSTEM FOR SUBMERSIBLE MOTORS AND THE LIKE
Earl Mendenhall, Los Angeles, and Junius B. Van Horn, Alhambra, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Original application August 28, 1934, Serial No. 741,796. Divided and this application October 15, 1937, Serial No. 169,190
3 Claims. (Cl. 172—36)

1. In combination in a submersible electric motor structure adapted to be submerged in a conducting liquid: a shell containing a dielectric liquid having access to said conducting liquid; an electric motor in said shell; means for supplying an additional quantity of dielectric liquid to said shell, said means including a valve means; de-energizing means for said motor and including a switch means; dash-pot means retarding the closing of said switch means; and means in said



shell responsive to the amount of said conducting liquid in said shell for controlling operation of said valve means to supply additional dielectric liquid to said shell and for setting said dash-pot means into operation whereby said switch means will be actuated to de-energize said motor after lapse of a period of time following said operation of said valve means.

2,158,472
CONTROL SYSTEM FOR SUBMERSIBLE MOTORS AND THE LIKE
Earl Mendenhall, Los Angeles, and Junius B. Van Horn, Alhambra, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Original application August 28, 1934, Serial No. 741,796. Divided and this application October 15, 1937, Serial No. 169,191
8 Claims. (Cl. 172—36)

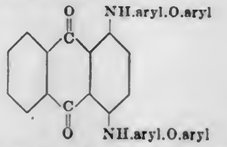


1. In combination in a submersible electric motor structure adapted to be submerged in a conducting liquid: a shell containing a dielectric liquid having access to said conducting liquid; an electric motor in said shell; a multi-phase circuit supplying current to said electric motor; means in said shell and responsive to the amount of said conducting liquid therein for unbalancing the phase currents in said circuit; and means responsive to the unbalancing of said phase currents for controlling said submersible electric motor structure.

2,158,473
ACID ANTHRAQUINONE DYESTUFFS AND THEIR MANUFACTURE

Carl Mettler, Basel, Switzerland, assignor to the firm of J. R. Geigy S. A., Basel, Switzerland
No Drawing. Application March 3, 1938, Serial No. 193,803. In Switzerland March 11, 1937
10 Claims. (Cl. 260—374)

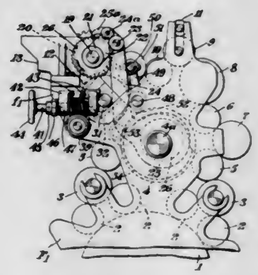
1. Process for the manufacture of acid-anthraquinone dyestuffs consisting in condensing a compound selected from the group consisting of anthraquinone and leuco-anthraquinone compounds containing in the positions 1 and 4 exchangeable nuclear substituents selected from the group of Cl, Br, OH and OCH_3 with an aminodiphenylether of the benzene series to the compounds of the general formula



aryl meaning aryl radicals of the benzene series, sulphonating the dyestuff-base and neutralizing the obtained dyestuff acid.

2,158,474
INKING ARRANGEMENT FOR ROTARY PRINTING PRESSES

William N. Misuraca, Merrick, N. Y., assignor to General Printing Ink Corporation, a corporation of Delaware
Application March 18, 1937, Serial No. 131,590
9 Claims. (Cl. 101—350)

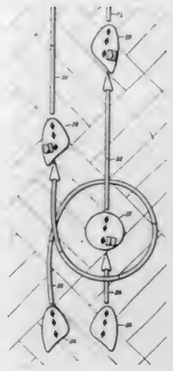


1. In a printing press, the combination with a fountain roller, and means for imparting step-by-step rotative movement to said fountain roller, of an ink-distributing roller, a ductor roller for periodically transferring ink to said ink-distributing roller, an auxiliary roller for transferring ink from said fountain roller to said ductor roller, and means independent of the exterior surface of said fountain roller for imparting rotative movement to said auxiliary roller.

2,158,475
RECORDING AND ILLUSTRATING DANCE STEPS

Joseph F. Montine, Brooklyn, N. Y.
Application November 14, 1935, Serial No. 49,856
In Canada February 7, 1927
5 Claims. (Cl. 35—29)

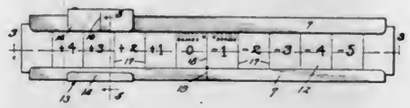
1. For use on a floor surface in teaching bodily movements thereover, a marker made of thin sheet material having a plurality of apertures therein for aiding in the proper location of the



marker on the floor to indicate foot position, as and for the purpose described.

2,158,476
SLIDE RULE

George H. Morse, Arlington, Va.
Application May 9, 1938, Serial No. 206,884
2 Claims. (Cl. 235—70)

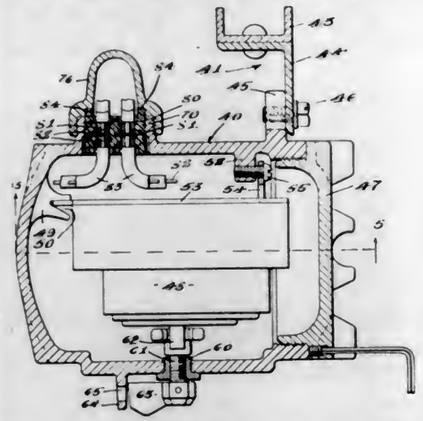


2. In a slide rule, a housing having a bottom, side walls and inwardly directed flanges formed on the side walls of the housing, an elongated slidable graduated member mounted within the housing and confined by said flanges, an elongated backing member between the graduated member and bottom of the housing, said backing member having a groove formed in one surface thereof in which the graduated member moves, said groove being of a depth less than the thickness of the graduated member whereby the graduated member is held in contact with said flanges, by said backing strip, and spring means interposed between the housing and backing member for urging the backing member against the graduated member.

2,158,477
EXPLOSIONPROOF SWITCH PANEL

Raymond H. Olley, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application April 8, 1937, Serial No. 135,823
3 Claims. (Cl. 174—65)

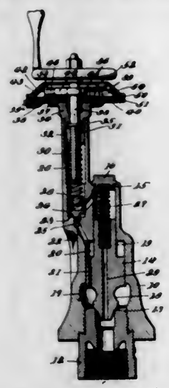
1. An enclosed switch housing provided with a threaded aperture in one wall thereof, a conduit enclosing a plurality of conductors, a plug threaded into said aperture and being formed with a plurality of threaded apertures extending therethrough, each of said conductors being provided with an externally threaded sleeve, said sleeves being threaded into the respective threaded apertures of said plug, and means for detachably connecting one end of said conduit to the switch



housing in register with the aperture formed therein.

2,158,478
PRESSURE RELIEF VALVE

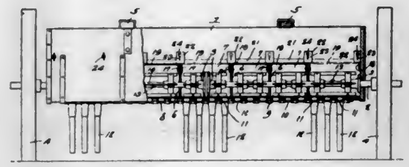
Arthur L. Parker, Cleveland, Ohio
Application June 19, 1936, Serial No. 86,172
1 Claim. (Cl. 137—53)



The combination with a fluid pressure chamber having an outlet with a seat through which fluid is delivered, of a main relief valve cooperating with said seat and shaped to present unequal opposed pressure areas, the lesser pressure area being in said chamber and tending to open the valve, the larger pressure area tending to close the valve, a second chamber containing the larger pressure area and in constant communication with the first chamber, a third chamber at the end of said valve remote from its seat, a passage through said valve connecting said third chamber to the outlet, a pilot valve, a chamber within which the pilot valve is normally seated, the pilot valve seat being in constant communication with said second chamber, whereby a predetermined pressure in the latter unseats the valve, a passage from the pilot valve chamber to said third chamber and adapted to be uncovered by the pilot valve only after it has been raised a predetermined distance from its seat.

2,158,479
DISTRIBUTOR FOR FERTILIZER, LIME, OR THE LIKE

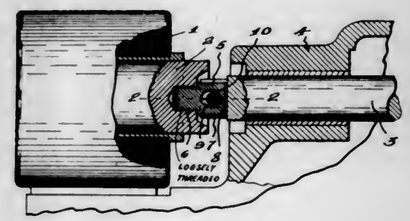
Lorenzo Dow Pender, Raleigh, N. C., assignor to Ruth McW. Pender, Raleigh, N. C.
Application February 8, 1937, Serial No. 124,771
1 Claim. (Cl. 221—118)



A distributor for fertilizer or the like including a hopper having parallel partitions dividing the lower portion of the hopper into separate compartments each having an outlet, a closure for each outlet, separately removable lids for the compartments cooperating to form a sectional false bottom for the hopper, means on the lids for engagement with the upper portions of the respective partitions, means on the respective lids for engaging the adjacent walls of the hopper, and means for fastening the respective lids into position on said partitions and walls.

2,158,480
SOLENOID OPERATING SHIFTING MECHANISM

Carl D. Peterson, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Application May 22, 1936, Serial No. 81,320
2 Claims. (Cl. 175—341)



1. In a solenoid operated shifting mechanism, the combination of a solenoid including a sliding core, a part to be shifted by the sliding core, and a connection between the core and said part including a head having a shank threading axially into the core with the threads having looseness sufficient to permit radial movement of the head in all directions, within limits, relatively to the core, said part being formed with a head formed with a recess for receiving the former head, and a pin extending transversely through said heads, and the head, which is connected to the core, having a passage for receiving the pin, the pin loosely fitting the passage, the head connected to the core, loosely fitting the recess of the head of said shiftable part, all whereby the core is relieved during the movement thereof of strains due to misalinements of the core and said part.

2,158,481

PROLAMINE BASE COMPOSITION

Donald W. Hansen and Paul R. Shildneck, Decatur, Ill., assignor, by mesne assignments, to Prolamine Products Incorporated, Dover, Del., a corporation of Delaware

No Drawing. Application December 11, 1933, Serial No. 701,866. Renewed September 30, 1938

21 Claims. (Cl. 106—38)

1. A composition of matter useful in the form of films, filaments and coatings comprising a prolamine base, a protein fixing agent for said base, and a salt of an aliphatic amino alcohol as an agent to render the composition stable against blushing or spotting with high humidity and moisture when the composition is in dry solid form.

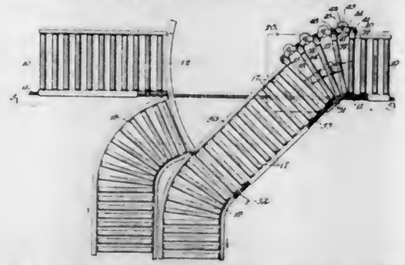
2,158,482

CONVEYER SWITCH

Edward H. Maltby, White Bear Lake, Minn., assignor to Standard Conveyor Company, a corporation of Minnesota

Application August 20, 1936, Serial No. 96,979

7 Claims. (Cl. 198—127)



1. A conveyer switch comprising a plurality of revoluble and relatively movable rollers adapted to support and convey loads along straight or curved paths, means for guiding said rollers to form either straight or curved conveyer paths, extensible and contractile means extending along a side edge of the switch, connecting said rollers together and permitting movement thereof to form said paths and a train of gears extending along a side edge of said path and including gears for rotating said rollers individually in the several positions thereof.

2,158,483

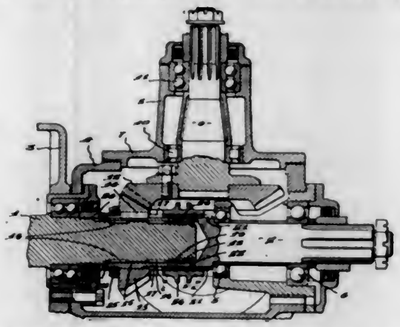
POWER TAKE-OFF FOR MOTOR VEHICLES

Carl D. Peterson, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia

Application June 30, 1937, Serial No. 151,256

1 Claim. (Cl. 74—11)

In a power take-off for motor vehicles, the combination of a drive shaft actuated from the engine of the vehicle, a driven shaft alined therewith for connection to the propeller shaft of the vehicle, a power take-off including a train of gears and a shiftable clutch section operable to connect the gears to the drive shaft, a sleeve on the drive shaft in which the drive shaft is normally rotatable, the sleeve being formed with clutch teeth at one end, a ring keyed to the drive shaft against which said end of the former sleeve thrusts, the ring being formed with clutch teeth, the driven shaft being formed at its end opposed to the drive shaft with clutch teeth, one of said train of gears being mounted on the sleeve and keyed thereto, and suitable means for holding the sleeve and the gear on the sleeve from axial displacement, said shiftable clutch section having teeth for interlocking with said three sets of clutch teeth and shiftable into one position to clutch the drive and driven shafts through said ring directly together; and into a second position to clutch the sleeve through the clutch teeth thereon to the drive shaft through said ring and the driven shaft to the drive shaft through said ring; and into a third position to clutch only the gear on the sleeve to the drive shaft through the ring.



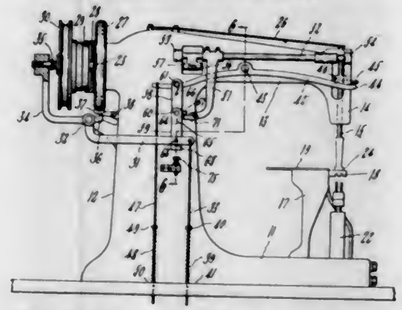
2,158,484

SEWING MACHINE STOP MOTION

Jesse V. Poole, Abington, and Charles E. Clarke, Everett, Mass., assignors to Puritan Manufacturing Company, Boston, Mass., a corporation of Massachusetts

Application September 27, 1935, Serial No. 42,480

8 Claims. (Cl. 112—219)



1. The combination with a sewing machine having a disconnectible driving clutch and a friction brake, and operator-controlled means for actuating said clutch and brake to start and stop the machine, of other operator-controlled means for reconnecting said clutch and automatic means timed with the cycle of operations of the machine for thereafter disconnecting the clutch.

2,158,485

ALGINATE SALTS AND PROCESS OF MAKING SAME

Bennett Preble, San Diego, Calif., assignor to Kelco Company, Los Angeles, Calif., a corporation of Delaware

No Drawing. Original application October 22, 1935, Serial No. 46,213. Divided and this application December 30, 1937, Serial No. 182,630

5 Claims. (Cl. 260—116)

1. An aliphatic amine salt of alginic acid.

2,158,486

AMINE ALGINATE PRODUCT AND PROCESS

Bennett Preble, National City, Calif., assignor to Kelco Company, Los Angeles, Calif., a corporation of Delaware

No Drawing. Application October 22, 1935, Serial No. 46,213

11 Claims. (Cl. 260—116)

1. A mixed salt of alginic acid consisting of inorganic substances and ethanolamine of the formula $A(x)_n(y)_n$ where A is the radical of alginic acid, selected from the group which consists of the alkali metals, the alkaline earth metals, zinc, aluminum, and copper, y is ethanolamine, and n is a whole number consistent with the basicity of the acid and the remaining substances.

2,158,487

TRIETHANOLAMINE ALGINATE PRODUCT AND PROCESS

Bennett Preble, National City, Calif., assignor to Kelco Company, Los Angeles, Calif., a corporation of Delaware

No Drawing. Application October 22, 1935, Serial No. 46,214. Renewed July 21, 1938

15 Claims. (Cl. 260—116)

14. Alginic acid neutralized by an amine chosen from the group consisting of propanolamine, ethanolamine, and butanolamine.

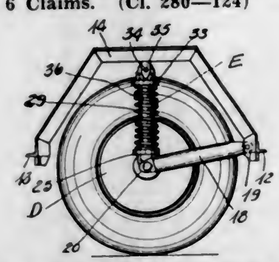
2,158,488

INDEPENDENTLY SPRUNG SUSPENSION WHEEL UNIT

Alexis R. Pribil, Saginaw, Mich.

Application September 19, 1936, Serial No. 101,544

6 Claims. (Cl. 280—124)



1. A trailer of the class described and comprising a main frame, bridge members connected to the frame and forming wheel housings, wheel assemblies accommodated by said housings and including spindles, draft links having one end pivotally connected to the main frame and terminating in a hub adapted to receive said spindle, means for securing said hub to said spindle, shock absorbers pivotally connected to said hub securing means and to the bridge frame members, and springs surrounding said shock absorbers and interposed between said spindles and the upper sections of the wheel housings.

2,158,489

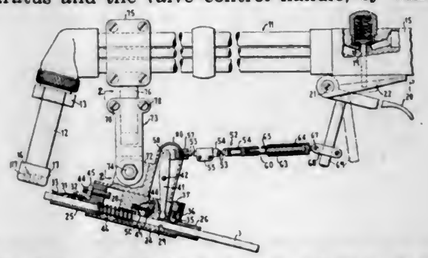
STARTING DEVICE FOR CUTTING TORCHES

George L. Walker, Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application January 29, 1938, Serial No. 187,631

14 Claims. (Cl. 266—23)

1. The combination with an oxygen cutting torch having a valve that controls the supply of cutting oxygen and a control handle for operating the valve, of apparatus for feeding a starting rod to the tip and connections between said apparatus and the valve control handle, by which



the valve control handle operates said apparatus to feed the starting rod.

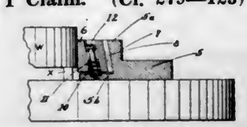
2,158,490

AUTOMATIC CHUCK JAW

Clarence O. Webster, Springfield, Ohio, assignor of one-half to Harold Cooke, Springfield, Ohio

Application June 30, 1938, Serial No. 216,850

1 Claim. (Cl. 279—123)



In a structure of the character described, which comprises a jaw body and a sliding jaw, said body having an extension which extends beneath the sliding jaw, and the jaw and jaw body being complementally provided upon their rear and front faces respectively, with inter-engaging, dove-tailed guideways, which are rearwardly inclined from top to bottom; an auxiliary means for connecting said jaw to said body comprising an inclined member, the lower end of which is engaged with that extension of the jaw body which underlies the sliding jaw, said member lying in parallelism with said dove-tailed guideways and passing through the sliding jaw at a point materially in advance of the said guideways, said member being provided with means for limiting the outward movement of the sliding jaw, and a spring encircling said member and bearing between the sliding jaw and the extension of the jaw body and tending to thrust the sliding jaw outwardly.

2,158,491

COKE OVEN DOOR

Wilhelm Beimann, Bochum, Germany; Elizabeth Beimann, Bochum, Germany, administratrix of said Wilhelm Beimann, deceased, assignor, by mesne assignments, to the firm Otto-Wilputte Ovenbouw Maatschappij N. V., The Hague, Netherlands, a corporation of the Netherlands

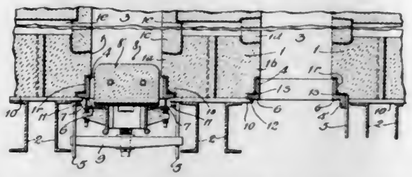
Application September 29, 1934, Serial No. 746,116

In Germany January 5, 1933

12 Claims. (Cl. 202—248)

9. In a coke oven of the type comprising horizontally elongated chambers and masonry heating walls arranged alternately in a row and removable doors for closing the ends of said chambers, the combination with a buckstay in front of each of the heating wall ends adjacent and at the opposite sides of a coking chamber end, of a flash plate interposed between each of said wall ends and the buckstay in front thereof with a portion extending horizontally away from the buckstay toward but terminating short of the

adjacent side of said chamber end, a rigid metallic door frame member forming a frame for the door at said chamber end and separable con-



nections between each of said flash plate portions and adjacent portions of said frame member for releasably securing the latter to said flash plates.

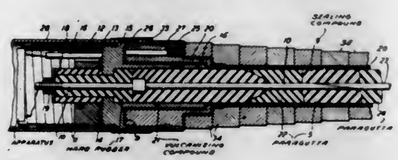
2,158,492

UNDERSEA CABLE SYSTEM

Walter M. Bishop, Huntington, N. Y., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y., a corporation of New York

Application March 28, 1936, Serial No. 71,411

10 Claims. (Cl. 174—70)



1. An apparatus housing adapted for laying on the sea bottom, comprising an elongated tubular member, a substantially cylindrical end piece supported by each end of said member, each of said end pieces having a groove around the outer surface, and a pliable metallic covering extending over said member and a portion of each of said end pieces including said groove and crimped into said groove to form a seal therewith.

2,158,493

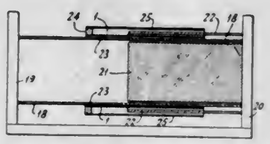
ARTIFICIAL LINE FOR USE ON RADIO AND OTHER HIGH FREQUENCIES

Joseph Douglas Brailsford and Robert Francis O'Neill, London, England, assignors to Radio Corporation of America, a corporation of Delaware

Application March 16, 1936, Serial No. 69,098

In Great Britain March 16, 1935

8 Claims. (Cl. 178—44)



1. An artificial line comprising a cylindrical coil, a split cylindrical screen substantially surrounding said coil and in electrostatic association with the same, and means for widening or reducing said split so as to vary the distributed capacity due to said screen, said line being further characterized in that the screen is of springy material and has the split parallel to the coil axis, said screen being fixed relative to said coil at a point or points opposite said split, the means for varying the width of said split comprising a screen member bridging said split and adapted to force said split to widen against the springiness of the screen.

2,158,494

TREATMENT OF TEXTILE MATERIALS

Harry Corteen, Robinson Percy Foulds, and Frederick Charles Wood, Manchester, England, assignors to Tootal Broadhurst Lee Company Limited, Manchester, England, a British company

No Drawing. Application January 17, 1935, Serial No. 2,204. In Great Britain January 25, 1934

10 Claims. (Cl. 8—125)

1. Process of treating a crease-resisting cellulosic textile material containing within the fibres an insolubilised synthetic resin which comprises subjecting the material to a swelling treatment with a mercerizing agent.

10. Crease-resisting linen containing within the fibres an insolubilised synthetic resin, which linen has been swollen by a mercerizing agent after the insolubilization so as to increase the resistance of the fabric to wear to many times the resistance of the unswollen crease-resisting material.

2,158,495

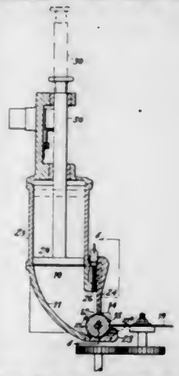
PASTE APPLYING DEVICE

John Crighton and Robert John Alexander Chandler, London, England, assignors to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey

Application November 28, 1936, Serial No. 113,244

In Great Britain November 30, 1935

5 Claims. (Cl. 131—43)



1. An apparatus for applying paste to a moving surface such as the wrapper web of a cigarette rod machine, comprising a paste container having an outlet, a paste applying disc, a paste feeding roll located in said outlet and having a peripheral portion protruding through the outlet for transferring paste directly to said paste applying disc, means for rotating said feeding roll, means for applying pressure to the paste in the container to feed it to said roll, said apparatus including also an adjustable gate element above the plane of the disc and co-operating with the periphery of the roll for controlling the feed of the paste over the roll to the disc; and a bottom plate conforming and closely adjacent to the surface of the feed roll over a substantial arc, preventing egress of paste when in place, said plate being removable to give access to the container and to expose the entire bottom surface of the roll while the roll and gate remain in place.

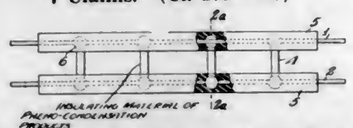
2,158,496

TRANSMISSION LINE

Ralph W. George, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application June 20, 1935, Serial No. 27,478

7 Claims. (Cl. 174—117)



1. A transmission line for use in ultra high-frequency circuits comprising a pair of parallel arranged conductors spaced by insulating rods having enlarged ends serving as anchorage means, said rods and said conductors being mechanically secured to said conductors by a continuous length of insulating binding material surrounding said enlarged ends.

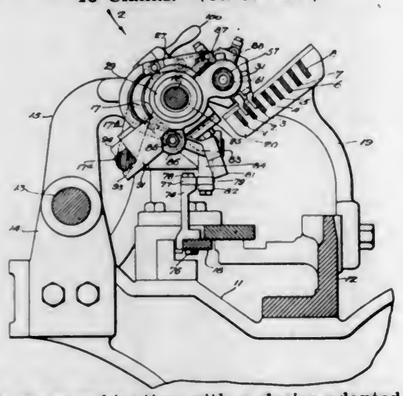
2,158,497

THREE CARRIER MECHANISM

Frederick C. Good, Philadelphia, Pa.

Application November 9, 1935, Serial No. 49,087

13 Claims. (Cl. 66—127)



3. The combination with a device adapted for driving a plurality of longitudinally reciprocal thread carrier bars of a flat knitting machine, of a pair of rotary elements carried by said driving device, each of said elements being adapted for independent rotation and having a plurality of carrier bar engaging lugs and intermediate bar clearing spaces, and mechanisms, one for each of said elements and carried by the driving device for intermittently rotating said elements to bring in alternating succession the lugs thereof into carrier bar engaging position for selectively coupling said bars to said driving device.

2,158,498

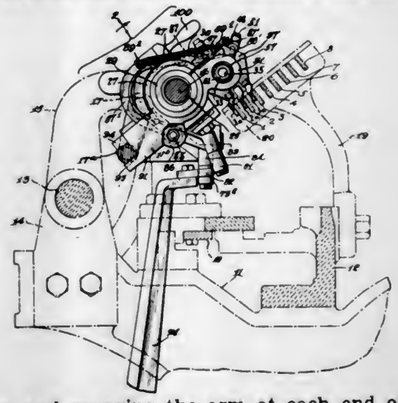
TACKLE FOR FLAT KNITTING MACHINES

Frederick C. Good, Philadelphia, Pa.

Application November 25, 1936, Serial No. 112,650

13 Claims. (Cl. 66—127)

1. In a flat knitting machine having a cam shaft, a friction rod, friction box and carrier bars, a single star wheel carried by the friction box for automatically and selectively directly engaging and disengaging the carrier bars for movement of the bars, a shaft for the star wheel, a ratchet wheel on the shaft, a pawl and pawl arm for turning the ratchet wheel and an actuator for the arm normally free from engagement with and support by the friction box, movable in a direction transverse to the direction of movement of the friction



box and engaging the arm at each end of the stroke of the box.

2,158,499

METHOD FOR DECOMPOSING SCLEROPROTEINS AND NEW PRODUCTS OBTAINED THEREBY

Wolfgang Grassmann, Dresden, and Hans Reich, Berlin, Germany

No Drawing. Application February 14, 1936, Serial No. 63,940. In Germany January 2, 1933

14 Claims. (Cl. 260—112)

9. Water-soluble decomposition products of scleroproteins having a cystine and tryptophane content substantially corresponding to that of the starting material, being obtained by first treating scleroproteins with agents capable of decomposing proteins, in such a manner that the resulting products are still water-insoluble, but digestible, isolating said products, and then treating the latter with proteolytic enzymes so as to form said water-soluble decomposition products.

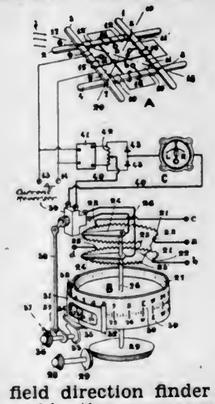
2,158,500

MAGNETIC FIELD DIRECTION FINDER

Ugo Guerra, Rome, Italy

Application February 3, 1937, Serial No. 123,811

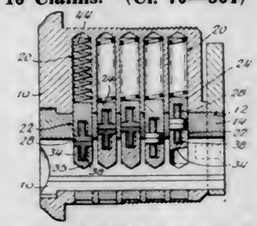
3 Claims. (Cl. 33—204)



1. Magnetic field direction finder of the type comprising in combination, a core system of variable permeability and a current indicating device connected with said core system, said system forming at least two pairs of magnetic circuits, a first pair of windings mounted on said system

for carrying an alternating current, a second pair of windings on said system for exclusively carrying the current induced by the variation of flux of the magnetic field due to the variations of reluctance of the magnetic circuits, a potentiometric device comprising slidable contacts to which the leads of the second pair of the aforesaid windings on said system are directly connected, said current indicating device being electrically connected to said potentiometric device and controlled thereby for indicating zero when the core system is orientated in respect to the magnetic field to a position corresponding to the position of the slidable contacts in the potentiometric device.

2,158,501
TUMBLER LOCK
Louis Gutman, Fitchburg, Mass., assignor to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts
Application August 3, 1938, Serial No. 222,905
16 Claims. (Cl. 70—364)

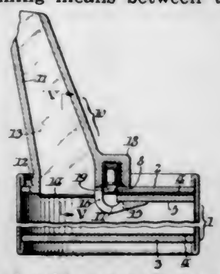


1. A pin tumbler lock having a stationary part and a movable part, both said parts being provided with tumbler bores capable of being aligned, a pin tumbler comprising a driver section and a follower section in each of said alignable tumbler bores, and the driver section comprising an end member adapted to engage the follower section and having a head and a shank, and a driver member provided with a recess of greater width than the thickness of the shank adapted to receive said shank, whereby said end member is adapted for limited lateral movement without tilting in relation to said driver member.

14. In a pin tumbler lock, a casing, a cylinder rotatably mounted therein, a pin tumbler carried by the casing and biased to a position extending across the line of parting between the casing and cylinder and into an opening in the cylinder to lock the cylinder against rotation, said tumbler comprising a plurality of sets of pins made of individual members stacked one on the other so that the alignment of the junction between said members with the line of parting allows rotation of the cylinder, at least one member of one of said sets being made of separate elements, and means carried by one of the elements of said member for limiting relative lateral displacement of said elements to restrict the permitted rotation of the cylinder, said means being free from the other element constituting said member so as not to form an endwise driving connection between the members of said set containing said member made of separate elements.

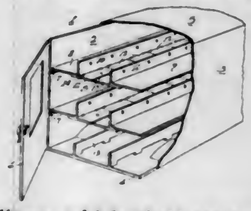
2,158,502
RECEPTACLE OPENER AND SPOUT
John K. M. Harrison, Ogontz, Pa.
Application June 7, 1938, Serial No. 212,295
11 Claims. (Cl. 221—23)

1. A receptacle opener and pouring device comprising a tubular member having a surrounding flange at one end, spaced attaching lips in continuation of predetermined parts of the member inner wall and outwardly of said flange, and aperture forming means between the attaching



lips at one end, said means also serving to retrovert the partially removed material incident to formation of the aperture and to fix the device to the receptacle.

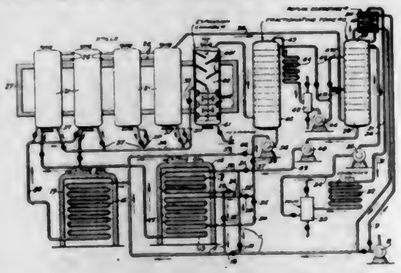
2,158,503
SHELF SYSTEM FOR DELIVERY VEHICLES
Frank B. Hewel, Pittsburgh, Pa.
Application May 29, 1937, Serial No. 145,524
8 Claims. (Cl. 211—93)



5. A delivery vehicle shelf system comprising a normally substantially horizontal portion, a substantially vertical portion at the inner edge of said horizontal portion, a second horizontal portion overlapping the first and hinged at substantially the intersecting edges of said first horizontal portion and said vertical portion, and means for interconnecting said vertical portion to said second horizontal portion when turned at substantially right angles around said hinge.

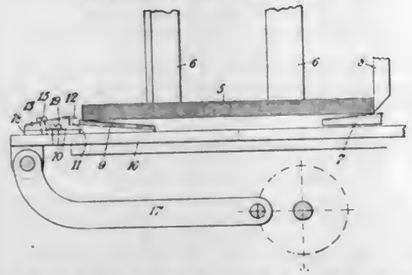
2,158,504
PROCESS FOR CRACKING OILS
Will K. Holmes, Tulsa, Okla., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Original application July 25, 1928, Serial No. 295,304. Divided and this application October 28, 1937, Serial No. 171,400
1 Claim. (Cl. 196—48)

In a process for the conversion of higher boiling hydrocarbon oils into lower boiling ones, the process that comprises passing a condensate oil formed as hereinafter specified through a heating coil positioned in a furnace, applying furnace gases to said heating coil to subject the oil stream therein to cracking temperature and effect conversion into lower boiling hydrocarbons, directing the resultant cracked products from said heating coil into an enlarged cracking still maintained at cracking temperature under superatmospheric pressure and wherein separation of vapors from residue takes place, passing the separated vapors to a fractionating zone wherein the vapors are fractionated to form a distillate comprising gasoline and a higher boiling reflux condensate, introducing said reflux condensate to said heating coil as the condensate oil subjected to cracking therein, withdrawing residue from the cracking still and reducing the pressure on the residue so withdrawn to effect vaporization, subjecting the evolved vapors to condensation to form a flashed condensate, passing fresh charging stock through an economizer heating coil positioned in an economizer section of aforesaid furnace and applying furnace gases to the economizer heating coil



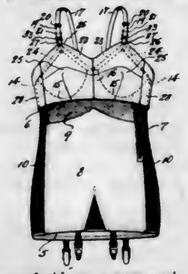
which have been first applied in heating the first-mentioned heating coil, combining said flashed condensate with the heated charging stock from the economizer heating coil and passing the mixture through a separate heating coil positioned in a separate heating zone, heating the mixture therein to a cracking temperature to effect conversion into lower boiling hydrocarbons and passing the resultant cracked products from the latter heating coil into the cracking still.

2,158,505
FEEDING OF CARDS FROM A STACK
George Daniel Horgan, London, England, assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 28, 1938, Serial No. 210,635
In Great Britain June 18, 1937
8 Claims. (Cl. 271—44)



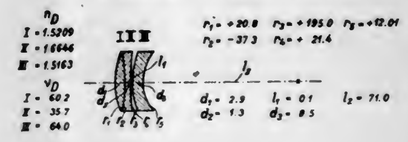
1. Means for feeding cards or the like from the bottom of a stack comprising a feeding abutment, means for reciprocating the abutment beneath the stack, and means operatively coupled to the abutment for selecting the lowest card from the stack, said selecting means comprising a support for the adjacent edge of the stack and a selecting tooth the edge of which is spaced from said support to provide a gap through which the lowest card passes for engagement by the abutment, said support being movable simultaneously with said abutment and said tooth to a position in which the stack is elevated by said movement of the support and from which position the tooth is advanced by the same movement of the support to engage, select and separate the lowest card from the stack, continued movement of the support advancing the abutment to feed said lowest card from the stack.

2,158,506
FOUNDATION GARMENT
Ethel Rorke Kaupp, Forest Hills, N. Y., assignor to Vogue Mfg. Co., Newark, N. J., a corporation of New Jersey
Application April 8, 1938, Serial No. 200,858
6 Claims. (Cl. 2—30)



1. In a foundation garment, a girdle section having high cut side portions, a perpendicularly stretchable panel at the upper front portion of said girdle section between said side portions thereof, said panel having concavely curved top marginal portions to extend around and beneath the breasts of the wearer, said panel having a central upwardly directed extension to extend between the wearer's breasts and upon which said curved top marginal portions converge, shoulder straps extending from the top rear margins of said girdle section, each shoulder strap terminating at its front portion in divergent branches connected respectively with the upper end of the extension of said upper front panel and with the top portion of an adjacent girdle side portion, a brassière section having breast receiving members, and cooperative means connected with the top margins of said receiving members and with said shoulder straps for separably connecting the former in suspended relation from the latter.

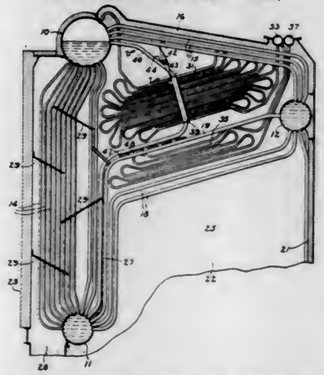
2,158,507
TELESCOPE OBJECTIVE
Albert König, Jena, Germany, assignor to the firm of Carl Zeiss, Jena, Germany
Application June 12, 1937, Serial No. 147,833
In Germany June 24, 1936
6 Claims. (Cl. 88—57)



1. A telescope objective corrected chromatically, astigmatically, spherically and for coma, this objective consisting of a convergent front member and a dispersive rear member axially spaced apart, the distance apart of said two members being greater than zero and at most equal to one seventh of the focal length of the telescope objective, the radii of curvature of the bounding surfaces of the space between said two members being greater than the radii of curvature of the corresponding outer surfaces of said objective, the radius of

curvature of the front bounding surface of said space being at most infinitely great, the radius of curvature of the rear bounding surface of said space being at most twice the radius of the rear bounding surface of said objective, at least one of said two members consisting of two lenses, the concave sides of two directly opposite surfaces of two different lenses of last said member facing the incident light, the sum of the refractive powers of said two surfaces being equal to at least the product of −0.9 and the reciprocal magnitude of the focal length of the objective and to at most the product of +0.1 and the said reciprocal magnitude.

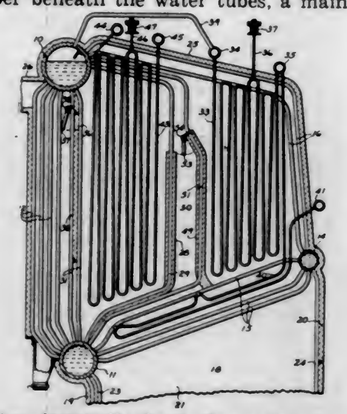
2,158,508
STEAM GENERATOR
Max H. Kuhner, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application January 27, 1937, Serial No. 122,618
2 Claims. (Cl. 122—478)



1. A steam generator comprising a transverse steam-and-water drum, a transverse water drum therebeneath, a bank of upright water tubes connecting the drums, a superheater in front of the water tubes, the superheater having a front portion remote from the water tubes and a rear portion adjacent to the water tubes, a combustion chamber beneath the superheater, means to direct hot gases from the combustion chamber upwardly into contact with the superheater and thence rearwardly into contact with the water tubes, a transverse baffle dividing the gases into two separate streams which contact with the front and rear portions of the superheater respectively, a filter baffle located beneath the rear portion of the superheater to restrict the flow in the rear stream, a row of water tubes extending upwardly from the water drum and forming a support for the filter baffle, and an adjustable damper located above the transverse baffle to control the flow in the forward stream.

2,158,509
STEAM GENERATING AND SUPERHEATING APPARATUS
Max H. Kuhner, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application October 4, 1937, Serial No. 167,194
4 Claims. (Cl. 122—478)

1. Steam generating and superheating apparatus comprising an upper transverse steam-and-water drum, a lower transverse water drum, a substantially upright transverse baffle located between the drums and having an upper opening and a lower opening therethrough, a damper to control the upper opening, downcomers connecting the drums, water tubes extending upwardly and forwardly from the water drum, means connecting the front ends of the water tubes to the steam-and-water drum, a steam heater mounted above the front portions of the water tubes, a second steam heater mounted above the rear portions of the water tubes and in front of said transverse baffle, means providing a combustion chamber beneath the water tubes, a main baffle



extending forwardly from the water drum beneath the second heater and then upwardly between the heaters, the hot gases flowing upwardly from the combustion chamber in contact with the first heater and thence rearwardly and downwardly in contact with the second heater, means providing a by-pass for hot gases adjacent the first heater, and a damper to control the by-pass, the second heater extending below the said upper opening for such a distance that by adjusting the first-mentioned damper the heat transfer to the second heater may be varied.

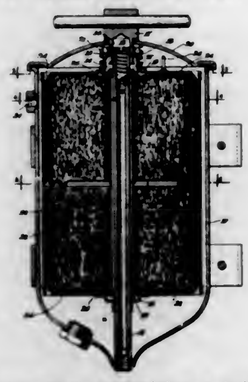
2,158,510
METHOD FOR OPERATING CUPOLA FURNACES
Karl Lauer, Gelsenkirchen, Germany, assignor to Deutsche Eisenwerke Aktiengesellschaft, Mulheim-on-the-Ruhr, Germany, a body corporate
No Drawing. Application June 16, 1938, Serial No. 214,045. In Germany June 19, 1937
10 Claims. (Cl. 75—43)

1. A method for operating cupola furnaces, which method consists in operating the furnace with a smaller quantity of charge coke than usual and substituting for the lacking portion of the usual quantity of charge coke easily oxidizable metal pieces of small cross-section and large surface charged into the furnace in loose condition and acting as heat generating means.

2,158,511
METHOD FOR THE PRODUCTION OF CAST IRON IN CUPOLA FURNACES
Karl Lauer, Gelsenkirchen, Germany, assignor to Deutsche Eisenwerke Aktiengesellschaft, Mulheim-on-the-Ruhr, Germany, a body corporate
No Drawing. Application June 17, 1938, Serial No. 214,317. In Germany June 21, 1937
7 Claims. (Cl. 75—43)

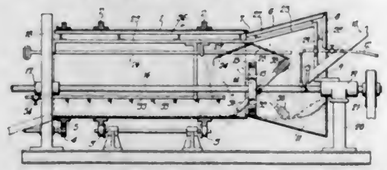
1. A method for the production of cast iron in cupola furnaces, consisting in charging an easily oxidizable metal of large-surface and small cross-sectional form in the loosest possible state as additional heat generating means mixed with that quantity of charge coke, which is normally used for the remelting of pig iron or pig iron and broken cast iron.

2,158,512
FILTER
Ralph R. Layte, Short Hills, and Marion M. McCoy, Whippany, N. J., assignors to Motor Improvements, Inc., Newark, N. J., a corporation of Delaware
Application August 19, 1937, Serial No. 159,810
10 Claims. (Cl. 210—131)



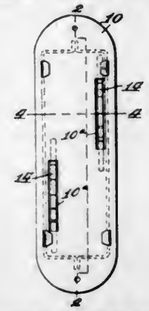
1. A filtering unit comprising a tube, a casing surrounding said tube and having perforated end members connected to said tube, an uninterrupted body of fibrous filtering material interposed between said tube and casing, and a perforated distributor on said tube extending into said filtering body and having its periphery spaced from said casing, said filtering material being more tightly packed adjacent the periphery and ends of the body than adjacent the distributor and central portion of the tube.

2,158,513
APPARATUS FOR MAKING NODULES OR PELLETS
Thorne E. Lloyd, Netcong, N. J., assignor to Dwight & Lloyd Sintering Company, Inc., New York, N. Y., a corporation of Delaware
Application September 3, 1938, Serial No. 228,284
16 Claims. (Cl. 259—3)



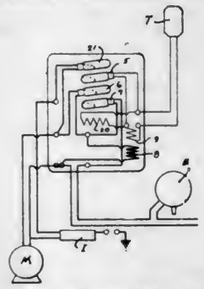
1. A pelletizer comprising a mixing chamber having a wall of conic curvature and rotatable with its axis substantially horizontal, means for supplying solids and water in finely divided condition in said mixing chamber near its larger end and means at the smaller end of said chamber to crush agglomerates of moistened material against the inner surface of said chamber and means to return said crushed smooth material to said mixing chamber.

2,158,514
COMBINED SASH BALANCE AND WEATHER STRIP
Aloysius F. Mantz, Los Angeles, Calif.
Application August 8, 1936, Serial No. 94,954
1 Claim. (Cl. 16—201)



In a combined sash balance and weather strip, a housing, a pair of shafts mounted of independent rotation within said housing, toothed wheels mounted on opposite ends of the two shafts so that said wheels are spaced apart laterally of the housing, a one-piece S-shaped spring having its end portions spirally wound about said axles between said wheels, the ends of which springs are connected respectively to said axles so that when the coiled end portion of one spring is wound upon the axle, the other coiled end portion will be correspondingly wound upon its axle and there being openings formed in one of the walls of the housing for the accommodation of the toothed edges of said wheels.

2,158,515
TIMED CIRCUIT BREAKER MECHANISM
Ira E. McCabe, Chicago, Ill.
Original application March 20, 1933, Serial No. 661,759, now Patent No. 2,024,697, dated December 17, 1935. Divided and this application November 14, 1935, Serial No. 49,777
5 Claims. (Cl. 175—375)



1. A control system for an electrically operated motor including a source of electricity, a motor circuit, a motor switch in said circuit, means for operating the motor switch including a repulsion floating coil transformer relay having a stationary primary coil connected in parallel with the motor circuit, a control switch in the secondary circuit and means actuated by the floating of the secondary coil upon energization of the coils and a predetermined voltage being impressed upon the fixed coil upon the closing of the control switch to close the motor switch, a normally closed safety switch in the motor circuit, a thermally actuated safety switch release means including a

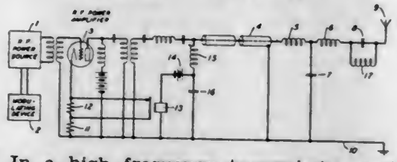
heating element connected in series with the secondary circuit of the relay, a shunt circuit about the heating element having a normally open shunt switch therein, and temperature responsive means for opening and closing said shunt switch, whereby while the motor switch remains closed and the shunt switch remains open the floating coil of the relay upon voltage drops in the motor circuit self adjusts its repelled position throughout a predetermined range of voltage fluctuation in the primary coil to pass sufficient current through the heating element to release the safety switch, said coil operating to open the motor circuit if the voltage falls below said range.

2,158,516

PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS

Frank H. McIntosh, Mill Valley, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 16, 1937, Serial No. 174,778
7 Claims. (Cl. 250—17)



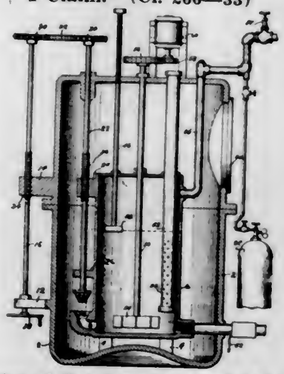
7. In a high frequency transmission system, a source of high frequency waves, an antenna for radiation of said waves, a concentric transmission line, the inner conductor of which is capacitively coupled to said source and conductively connected to said antenna and the outer conductor of which is grounded, current responsive means for controlling the transmission of waves from said source, a source of direct current and a choke coil, said current responsive means, said source of direct current and said choke coil being serially connected between the inner and outer conductors of said transmission line.

2,158,517

APPARATUS FOR ALLOYING METALS

Daniel V. McParlin, Passaic, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey

Application December 5, 1936, Serial No. 114,331
1 Claim. (Cl. 266—33)



In a device of the class described, the combination of a melting pot, a closed container within said pot spaced from the walls thereof to provide a melting chamber, a port in the wall of said chamber providing communication between said melting chamber and said closed container, a valve manually operable from the exterior of said pot for regulating the admission of molten lead through said port to said closed chamber whereby molten lead can be admitted a charge at a time to said closed chamber, means for supplying another metal to said chamber for alloying with the molten lead, means for supplying nitrogen gas to said closed chamber, means operable from the exterior of the melting pot for mixing the charges of molten lead with said other metal in said closed chamber, and means for placing the closed chamber under vacuum.

2,158,518

PRODUCTION OF AROMATIC ALDEHYDES

Walter Christian Meuly, New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 25, 1936, Serial No. 112,710
11 Claims. (Cl. 260—599)

2. The process of preparing a para-mono-alkyl benzaldehyde, which comprises reacting upon benzene simultaneously with carbon monoxide and with an agent adapted to introduce an alkyl group, in the presence of aluminum chloride.

2,158,519

PRODUCTION OF AROMATIC ALDEHYDES

Walter Christian Meuly, New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 20, 1938, Serial No. 203,131
11 Claims. (Cl. 260—599)

2. The process of preparing a para-alkyl benzaldehyde, which comprises reacting upon benzene simultaneously with carbon monoxide and with an agent adapted to introduce an alkyl group, in the presence of aluminum chloride.

2,158,520

PROCESS FOR THE PRODUCTION OF HARD CARBIDES

Oskar Meyer, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application January 23, 1937, Serial No. 122,007. In Germany February 11, 1936
1 Claim. (Cl. 23—208)

A process for the removal of graphite contained as an impurity in crude hard carbides, which comprises heating the crude carbide containing surplus carbon with manganese to temperatures of between about 850 and about 900° C. so as to cause the surplus carbon to react with the manganese with formation of manganese carbide and thereafter decomposing the manganese carbide formed by treating the carbide mixture with acids.

2,158,521

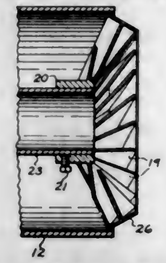
PULVERIZED FUEL BURNER

Kevork K. Nahigyan, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts

Application June 24, 1937, Serial No. 150,156
5 Claims. (Cl. 110—104)

1. A pulverized fuel burner comprising a nozzle

arranged to discharge a stream of pulverized fuel and primary air, means to supply secondary air around the outside of the fuel stream, a hub mounted within the nozzle near the discharge end thereof, and a series of vanes surrounding the hub with their inner ends secured thereto, each



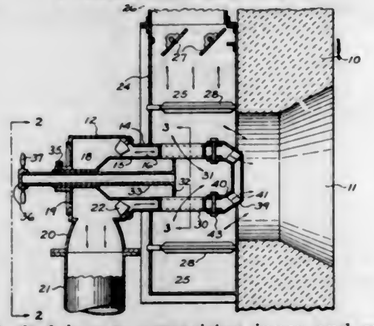
vane extending across the annular space between the hub and the surrounding nozzle and positioned at an angle to the axis of the nozzle so that a whirl is imparted to the fuel stream, the outer ends of the vanes being advanced circumferentially in the direction of whirl with respect to the inner ends of the vanes.

2,158,522

FUEL BURNER

Kevork K. Nahigyan, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts

Application July 29, 1937, Serial No. 156,262
6 Claims. (Cl. 110—104)



1. A fuel burner comprising inner and outer walls shaped to provide a fuel nozzle from which fuel is discharged in a converging annular stream, a casing surrounding the nozzle to form a plenum chamber from which air flows around the outside of the fuel stream, and means providing a passage through which air may flow from the plenum chamber inwardly to the center of the flame under the influence of the aspirating effect of the converging fuel stream.

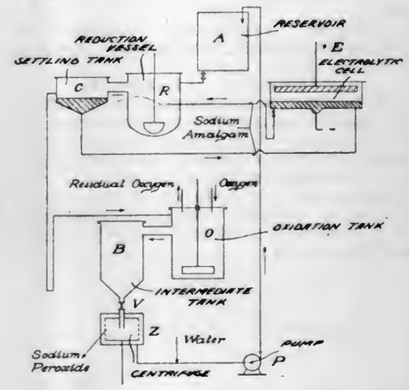
2,158,523

PRODUCTION OF ALKALI METAL PEROXIDES

Georg Pfleiderer, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application May 25, 1935, Serial No. 23,448
In Germany May 30, 1934
14 Claims. (Cl. 23—184)

1. The process of producing alkali-metal peroxides which comprises passing a solution of an alkali alcoholate and of an auto-oxidizable organic leuco-compound of the class consisting of hydrazobenzene and anthrahydroquinone in a cycle while alternately oxidizing with gaseous oxygen and reducing again partly with alkali-



metal amalgam and partly with a reducing agent containing no alkali and no alkali-metal, the precipitated peroxides being separated between the two operations and the substances removed from the solution being replenished.

2,158,524

METHOD OF TREATING PAPER CONTAINERS

Roland K. Reed, Bronxville, N. Y.

No Drawing. Application October 8, 1937, Serial No. 167,979
5 Claims. (Cl. 91—70)

1. The method of paraffin or similar paper containers which comprises subjecting the containers to a bath of moisture-proofing material at a temperature at least as high as the boiling point of water, whereby the paper of the containers is impregnated with said material, removing the containers from such bath after a time interval insufficient to cause charring of the containers and, substantially immediately after such removal, subjecting the containers to a bath of paraffin or similar material at a temperature substantially below the boiling point of water, whereby said containers are cooled by and become coated with said material.

2,158,525

PRODUCTION OF HYDROGEN PEROXIDE

Hans-Joachim Riedl and Georg Pfleiderer, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application October 3, 1936, Serial No. 103,852. In Germany October 10, 1935
11 Claims. (Cl. 23—207)

2. The process of producing hydrogen peroxide which comprises oxidizing a dissolved alkylated polynuclear hydroquinone selected from the group consisting of the alkylated anthrahydroquinones, the alkylated phenanthrenehydroquinones and their respective nuclear hydrogenation products with oxygen and then separating the hydrogen peroxide formed.

2,158,526

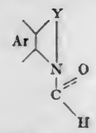
PARTIALLY HYDROGENATED HETEROCYCLIC NITROGEN COMPOUNDS SUBSTITUTED BY THE ALDEHYDE GROUP AND A PROCESS OF MAKING SAME

Nikolaus Roh, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 20, 1936, Serial No. 111,842. In Germany December 10, 1935

12 Claims. (Cl. 260—289)

1. A process for the production of partially hydrogenated heterocyclic nitrogen compounds substituted in an aryl radicle by the aldehyde group in para-position to the nitrogen atom which consists in rearranging under the action of rearranging agents selected from the group consisting of phosphorus chlorides, oxalylchloride and phosgene, heterocyclic nitrogen compounds of the general formula



wherein Ar represents an aryl radicle selected from the group consisting of phenyl and naphthyl which is free from a substituent in para-position to the heterocyclic nitrogen atom, and wherein



represents a heterocyclic ring system in which the N-atom shown is the only heteroatom and in which Y stands for a saturated chain of carbon atoms which is condensed with the aryl radicle shown.

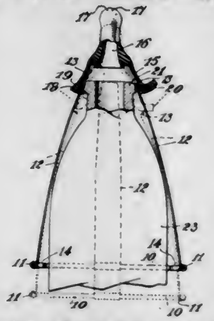
2,158,527

DEVICE FOR PLACEMENT OF NIPPLES AND SIMILAR DEVICES UPON BOTTLES

William H. Rose, Jersey City, N. J.

Application November 11, 1937, Serial No. 173,966

2 Claims. (Cl. 215—100)



1. In a device adapted to place nipples upon bottle necks, in combination, a base having an opening therethrough, a plurality of revoluble extended fingers carried by said base, each of said fingers being capable of being revolved so that its longitudinal axis is approximately parallel to the plane of said base, the free ends of which are capable of being positioned to form a pyramidal figure with said base and an outwardly extended prong carried by each free end of said fingers.

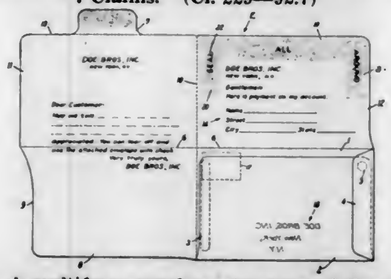
2,158,528

MULTIFORM ENVELOPE

Victor J. Sawdon, Tuckahoe, N. Y.

Application July 16, 1936, Serial No. 90,864

7 Claims. (Cl. 229—92.7)



2. A multiform envelope structure of the class described comprising as elements a complete envelope, including a body panel, a bottom flap folded over and adhered along one side edge to the body panel, a side flap associated with the remote side edge of the folded-over bottom flap, and a gummed cover flap; and an extension panel adapted to be folded flatly over said parts which constitute said complete envelope and adapted to be folded again with, and to enclose, said parts, and means to seal said folded-over extension.

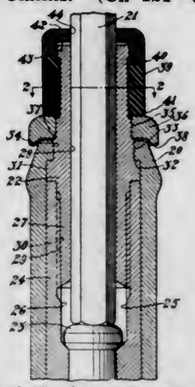
2,158,529

GUARD FOR ROCK DRILLS

Fred M. Slater, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application September 10, 1937, Serial No. 163,199

3 Claims. (Cl. 121—31)



1. In a rock drill, the combination of a casing and a working implement extending thereinto, a guard in slidable engagement with the casing, resilient means interlocked with the casing to retain the guard on the casing, and means on the resilient means to seal the end of the casing.

2,158,530

THERMOPLASTIC DERIVATIVES OF RUBBER

Ira Williams, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 5, 1937, Serial No. 172,935

23 Claims. (Cl. 260—108)

1. The method which comprises admixing solid unvulcanized rubber, having the normal characteristics of natural rubber, with at least 5% of a monohydric phenol free of substituents other than hydrogen, halogens and hydrocarbon radicals, and with at least one catalyst selected from the group consisting of sulfuric acid, halogen sulfonic acids, organic sulfonic acids, alkyl sulfates, boron trifluoride and dihydroxy fluoboric acid, the amount of the catalyst being from about 2% to about 50% of the phenol, and causing the phenol to react with the rubber to form a thermoplastic material by heating the mixture.

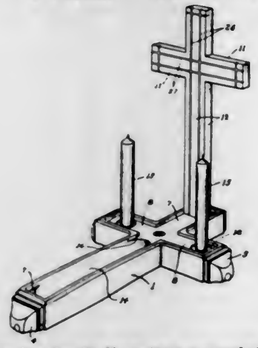
2,158,531

ECCLESIASTICAL DEVICE

Raymond F. Brennan, Attleboro, Mass.

Application August 15, 1938, Serial No. 225,070

3 Claims. (Cl. 206—19)



1. A device including two completely separable elements adapted for cooperative interconnected use in the act of worship and forming an ecclesiastical set comprising a cross, and a base in the form of a cross having a cruciform recess in one face thereof having vertical and opposed transverse extensions to receive the vertical and transverse portions of said cross in horizontal interfitting relation with the base, raised peripheral shoulders surrounding the recess for engagement with the marginal edges of the cross, a raised cross supporting base area carried by the base and located within that portion of the vertical extension of the cross receiving recess above the transverse extensions of the recess having means for supporting the cross in upright display position relative to the base, and a raised cross supporting base area carried by the base and located within the opposed transverse extensions of the recess having means for supporting a pair of candles, one within each transverse extension, in upright display position relative to the base.

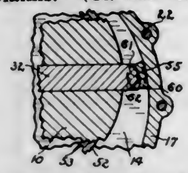
2,158,532

COMPLEMENTARY ROTARY ENGINE

Jim C. Bullen, Thorp, Wash.

Application February 25, 1936, Serial No. 65,706

2 Claims. (Cl. 123—16)



1. In a rotary internal combustion engine, the combination of a casing and its partition forming a power chamber and a compression chamber, a rotor in one chamber having a power shaft journaled in one wall of the casing, a rotor in the other chamber having a shaft journaled in an opposite wall of the casing, an intermediate shaft for said rotors journaled in the partition, and co-acting locking means on the opposite ends of the intermediate shaft and said rotors for securing adjustable phase relation between the rotors.

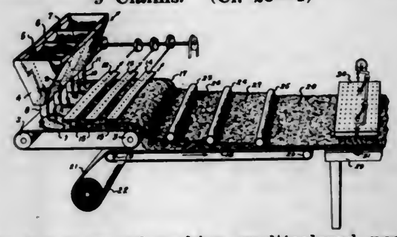
2,158,533

MEANS AND METHOD FOR THE MANUFACTURE OF DECORATIVE NEEDLED FABRICS

Arthur T. Cavey, Cincinnati, Ohio, assignor to Carthage Mills Incorporated, Carthage, Ohio, a corporation of Ohio

Application February 2, 1938, Serial No. 188,334

9 Claims. (Cl. 28—4)



1. A process of making multicolored needled fabrics, which comprises feeding on to a base fabric fibrous streams of different colors and of essentially longitudinal direction, but of substantially continuously varying widthwise placement, and needling the fibrous material into the base fabric.

2,158,534

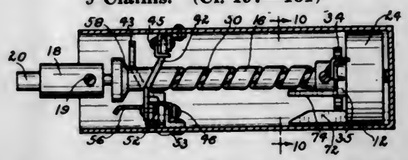
MECHANICALLY OPERATED ERASER FOR TYPEWRITERS

Charles T. Collins, Reubens, Idaho

Application January 14, 1937, Serial No. 120,584

Renewed November 2, 1938

9 Claims. (Cl. 197—181)



1. In an erasing attachment, the combination with a fixed casing having a pair of opposed spring-pressed jaws, and means for opening the jaws, of a reciprocable non-rotary motor housing in the casing and means for reciprocating the housing, a screw shaft journaled in the housing and a spring-motor operatively connecting the shaft and housing, said jaws and shaft co-acting to wind the motor as the housing is projected, retaining means for the wound motor, and means for releasing the retaining means to permit operation of the motor.

2,158,535

SHOCK ABSORBER

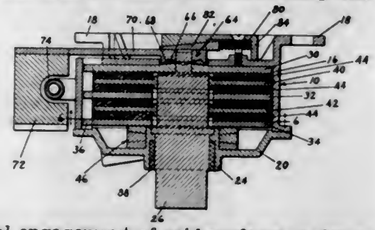
Arthur C. Davidson, Chicago, Ill.

Application May 8, 1936, Serial No. 78,738

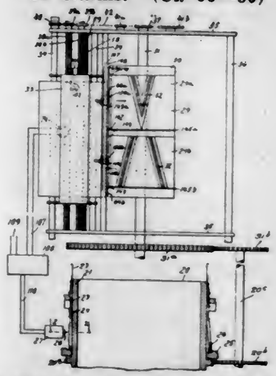
14 Claims. (Cl. 188—130)

1. A shock absorber including a housing structure, rotary actuating means, stationary means having a friction surface, axially shiftable means having a friction surface to cooperate with the

friction surface of the stationary means, said shiftable means being operable in response to movement experienced by said actuating means, constantly urged means coaxially arranged with the stationary means for controlling the frictional engagement of said surfaces under normal operating speeds of said actuating means, and means for controlling said frictional engagement under faster operating speeds of said actuating means.



2,158,536
TEXTILE MACHINE
George Fisher and William S. Tandler, New York, and Richard Wallace Carlisle, Flushing Heights, Long Island, N. Y., assignors to Lefier Corporation, New York, N. Y., a corporation of New York
Application July 23, 1936, Serial No. 92,112
44 Claims. (Cl. 66—50)



23. In a scanning mechanism, the combination of a support, means for reciprocating the support, a pair of scanning elements on said support, and means operable at the ends of the path of reciprocation of said support for rendering one element operative and the other inoperative.

29. In an apparatus for controlling the operation of a textile machine, the combination of a cylindrical rotating support, and a pattern sheet on said support with its ends meeting, said sheet having rows of pattern areas thereon and being mounted on said support with its ends offset longitudinally of the support by the width of at least one row of pattern areas.

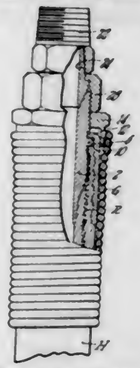
2,158,537
SOUND CREATING DEVICE
Walter A. Garratt, Covington, Ky., assignor to Philip G. Vondersmith
Application June 23, 1937, Serial No. 149,928
11 Claims. (Cl. 116—137)

4. A device of the class described, comprising, a resonator consisting of a casing having a peripheral wall and end walls, said casing being closed with the exception of an opening in one



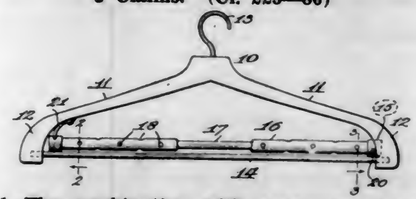
of said end walls, and means for directing a stream of air co-axially into said opening.

2,158,538
HOSE
Daniel B. Gish, West Springfield, Mass.
Application July 14, 1938, Serial No. 219,182
2 Claims. (Cl. 285—82)



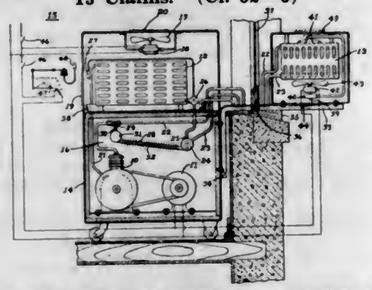
1. In a combined hose and coupling construction having a tail-piece with upper threaded part for connecting to a coupling member and a lower part extending into the end of a hose and a sleeve compressed around the hose securing it to the lower part of the tail-piece and around an intermediate part of the tail-piece holding it and the sleeve against relative axial movement, a nut on said upper threaded part of the tail-piece adapted to abut against the said coupling member, said nut having an annular skirt extending downwardly around the outside of the upper part of said sleeve, and a coiled protecting member surrounding the upper part at least of said sleeve, said protecting member having its upper end portion secured to said skirt and its lower end portion extending below the sleeve and around a part of the hose.

2,158,539
GARMENT HANGER
Harry A. Grotte, San Francisco, and Sidney Richardson, Los Angeles, Calif.
Application October 19, 1936, Serial No. 106,296
3 Claims. (Cl. 223—86)



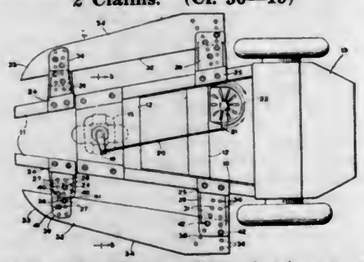
1. The combination with a garment hanger having a pair of inclined arms, of a rod having its ends seated in the ends of said inclined arms, an insecticide container removably mounted on said hanger and arranged between the ends of the arms thereof above and parallel with said rod and a clip secured to the end of one of the inclined arms adjacent the end of the rod seated therein for receiving one end of said container.

2,158,540
REFRIGERATING APPARATUS
Richard E. Gould, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 31, 1934, Serial No. 750,849
13 Claims. (Cl. 62—6)



1. Refrigerating apparatus comprising a refrigerant translating device, a condenser and an evaporator in refrigerant flow relationship, and means for evaporating high pressure liquid refrigerant in thermal exchange with said translating device and for condensing the vaporized refrigerant thus formed, said means including a pump operated by the flow of refrigerant.

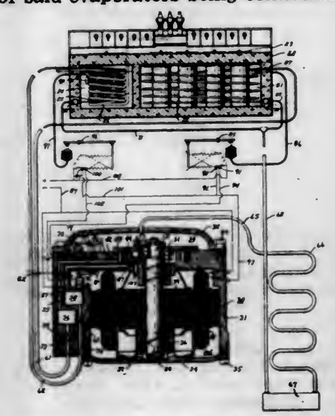
2,158,541
CORN CUTTER
Herman C. Horstmann, Jr., Cloverdale, Ohio
Application February 2, 1938, Serial No. 188,260
2 Claims. (Cl. 56—15)



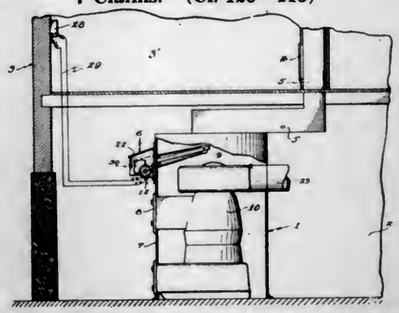
1. In a dirigible machine having a chassis adapted to be propelled forward, a pair of blades mounted on the sides of the chassis, said blades inclining toward each other in a forward direction, a dirigible wheel mounted in the forward part of the chassis, a driver's seat rotatably mounted on the chassis, and means for turning said wheel secured to said seat.

2,158,542
REFRIGERATING APPARATUS
Harry B. Hull and Alex A. McCormack, Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation, a corporation of Delaware
Application August 31, 1931, Serial No. 560,360
Renewed December 10, 1936
20 Claims. (Cl. 62—115)

8. Refrigerating apparatus including a plurality of compartments to be cooled, a compressor having a plurality of pumping chambers for compressing a refrigerant, a condensing means for condensing the refrigerant, an evaporator within each of said compartments to be cooled for evaporating the refrigerant, means for controlling the supply of refrigerant to said evaporators, at least some of said evaporators being connected to different pumping chambers, individual means for each pumping chamber for rendering said chambers inoperative for pumping purposes, and means controlled by the temperatures within said compartments for rendering operative said pumping chambers.



2,158,543
HUMIDIFIER
Charles Jensen, Evanston, Ill.
Application October 19, 1936, Serial No. 106,270
7 Claims. (Cl. 126—113)

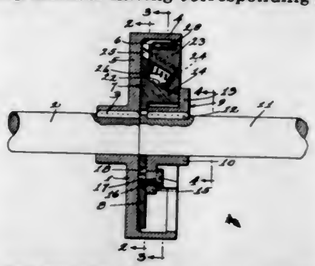


1. In a furnace humidifying art, a furnace having an upright wall and a unitary attachment comprising a housing adapted for attachment to said wall, a reservoir within said housing and through said wall, a pair of arms projecting diagonally upward from said housing and through said wall, a pair of rollers mounted in spaced parallel relation, one within said reservoir and the other remotely therefrom and within said furnace on said arms, porous fireproof belting carried by said rollers, and a motor to drive said rollers and belting.

2,158,544
CLUTCH
Rex E. Keller, Los Angeles, Calif.
Application April 13, 1931, Serial No. 529,666
36 Claims. (Cl. 192—105)

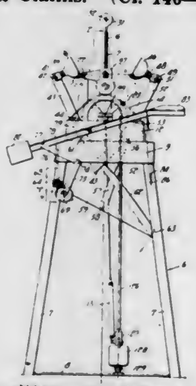
1. A clutch comprising axially alined driving

and driven members, a centrifugally operable gripping device slidable in an inclined plane on said driven member, said gripping device and its supporting member having corresponding grooved



surfaces for arresting the movement of the gripping device at different states, and means opposing centrifugal force and tending to retract said gripping device from operative position.

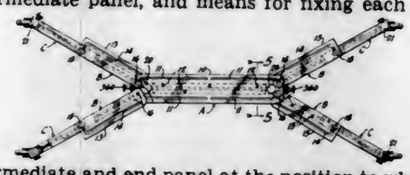
2,158,545
PEACH PITTER
Rudolph Kieweg, Sacramento, Calif.
Application September 4, 1936, Serial No. 99,392
2 Claims. (Cl. 146—28)



2. A peach pitter comprising a frame, a pair of opposed cups movably mounted on said frame for holding a peach to be pitted, a shaft journaled on said frame, means for oscillating said shaft through a partial revolution only, a sub-frame mounted on said shaft for oscillation about the axis thereof, a pair of spaced bushings rotatably mounted in said sub-frame with their common axis parallel to the axis of said shaft, an eccentric on one of said bushings, an eccentric strap on said eccentric and pivoted on said frame, a pitting knife mounted in said bushings with the axis of said knife eccentric to the axis of said bushings for pitting said held peach, means for moving said cups, and means on said shaft and connected to said bushings for rotating said bushings and said eccentric through a complete revolutions.

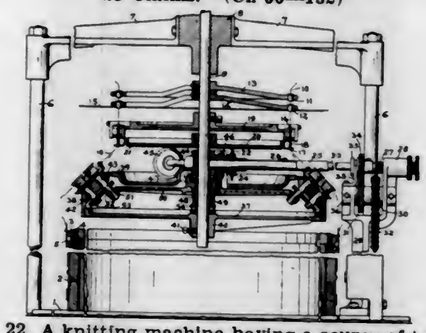
2,158,546
ADJUSTABLE BIER
Bernard J. Lang and Mack W. Lang, Detroit, Mich.
Application June 15, 1938, Serial No. 213,836
10 Claims. (Cl. 248—166)

1. An adjustable bier comprising a vertically disposed central panel, a pair of vertically disposed intermediate panels mounted vertically pivotally and horizontally slidably with respect to each end of the said central panel, a vertically disposed end panel mounted vertically pivotally and horizontally slidably with respect to each intermediate panel, and means for fixing each in-



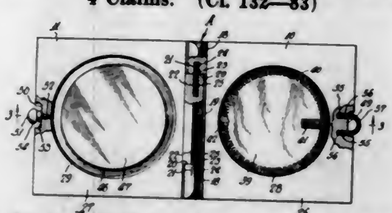
termediate and end panel at the position to which the said panels are slidably and pivotally adjusted with respect to the central and intermediate panels respectively.

2,158,547
YARN FURNISHING DEVICE
Robert H. Lawson and William L. Smith, Jr., Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application April 3, 1935, Serial No. 14,492
In Canada August 28, 1934
23 Claims. (Cl. 66—132)



22. A knitting machine having a source of textile yarn supply and knitting elements, variable yarn furnishing means in engagement with the yarn and, operatively positioned between the source of yarn supply and the knitting elements, the engagement of the yarn by the yarn furnishing means being such that when slack yarn is produced by the yarn furnishing means, the effective surface engagement of the yarn by the said yarn furnishing means is decreased, and adjustable means operatively positioned between the yarn furnishing means and the knitting elements for imposing variable, controlled tension upon the yarn.

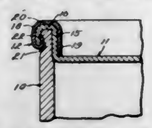
2,158,548
COMPACT
Edwin A. Lemire, Providence, R. I., and Ernest Steiner, New York, N. Y.
Application July 9, 1937, Serial No. 152,682
4 Claims. (Cl. 132—83)



1. In a container having recessed container elements to be hinged together at one side and to

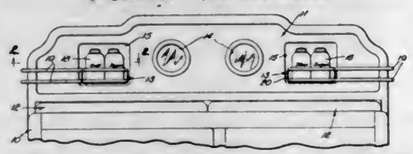
be provided with a latch at the other side; the combination therewith of a latch consisting of a nob on one of the elements and a U-shaped coil spring on the other of said elements, the loop of said coil spring being designed to be pressed and engage said nob when the elements are latched together.

2,158,549
CONTAINER
Maximilian Paul Link, Los Angeles, Calif.
Application November 8, 1935, Serial No. 48,846
7 Claims. (Cl. 229—5.7)



1. In a container, a body, a fibrous head for the body having a flange engaging the inner wall of the body, a rim on the head flange extending over the end of the body and engaging the outer surface of the body, and a metal ring engaging outwardly against the head flange at the inner side of the body wall, engaging inwardly against the rim at the outer side of the body and having a part confined to and wrapped about the edge portion of the rim to grip the same and terminating below the end of the body.

2,158,550
COOKING RANGE CONSTRUCTION
Robert J. Merritt, Los Angeles, Calif.
Application June 18, 1937, Serial No. 148,872
9 Claims. (Cl. 126—333)



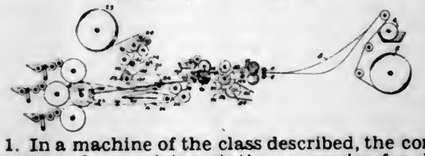
4. A cooking range construction for a range body comprising, a guard rail for the body having a pocket open at its face, a condiment carrier, a supporting member for the carrier, and means at the rear of the rail mounting the member for swinging movement whereby the carrier is movable from a position in the pocket to a position at a side of the body.

2,158,551
APPARATUS FOR SEPARATING PRECIOUS METALS FROM BLACK SAND
Charles C. Nutter, West Los Angeles, Calif.
Application September 18, 1937, Serial No. 164,537
1 Claim. (Cl. 209—11)



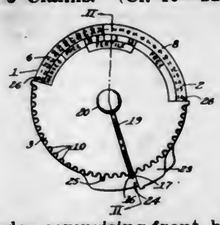
In an apparatus for recovering precious metals from sand, a drum for rotation on an inclined axis, means for rotating said drum, a burner tube projecting axially into the elevated end of said drum, that portion of the burner tube within the drum being perforated and a sand delivery spout extending into the elevated end of said drum with the discharge end of said spout disposed directly above the perforated portion of said burner tube.

2,158,552
SLIP-SHEET APPARATUS
Adolph Potdevin, Garden City, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a corporation of New York
Application March 9, 1937, Serial No. 129,787
9 Claims. (Cl. 34—1)



1. In a machine of the class described, the combination of a receiving station, a carrier for delivering freshly printed lengths of sheet material to said receiving station, a supply of slip-sheet material in the web, means for advancing the web continuously, cut-off mechanism for dividing the advancing web into slip-sheets, a second carrier for receiving the slip-sheets individually and delivering the same individually to said receiving station, said carriers being so timed that for each printed sheet deposited at the receiving station a slip-sheet is deposited in superimposed relation thereto.

2,158,553
MECHANICAL CALENDAR
George D. Rogers, Columbus, Ohio
Application August 10, 1936, Serial No. 95,100
3 Claims. (Cl. 40—115)

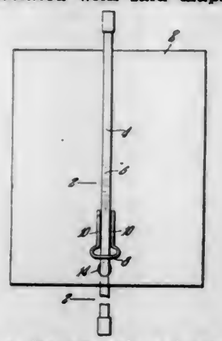


1. A calendar comprising front, back and intermediate dials arranged in superposed order, means uniting the axial portions of said dials for relative rotative adjustment, said back dial having a scale of ordinals arranged in arcuate order thereon adjacent to its periphery and setting forth consecutively the days of the calendar month, a registering scale of ordinals arranged arcuately on the peripheral portion of said intermediate dial, said intermediate dial being peripherally recessed to expose the scale of ordinals on the back dial to view, said front dial being peripherally recessed to disclose the ordinal scales on both the back and intermediate dials to view, circumferentially spaced notches formed in the periphery of said intermediate and front dials, and means for positively retaining said dials in their various positions of relative adjustment, said last-named means being carried by the dial pivoting means and cooperative with the notches provided in the peripheral portions of the intermediate and front dials.

2,158,554
SOUND-REPRODUCING DEVICE
Edward Schwartz, New York, N. Y., assignor to The Sound Publicity Corp., New York, N. Y., a corporation of New York
Application June 22, 1938, Serial No. 215,253
10 Claims. (Cl. 274—11)

1. As a new article of manufacture, a sound-reproducing device comprising in combination, a

diaphragm member, an elongated flexible record member associated with said member and movable longitudinally relative thereto, and a clip member associated with said diaphragm mem-



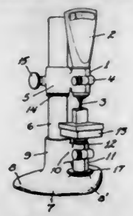
ber having a transversely-extending part for yieldingly pressing the record member against said diaphragm member, and a part for guiding said record member in its longitudinal movements.

2,158,555

MEASURING INSTRUMENT

George D. Webber, Cleveland, Ohio, assignor to Webber Metric Gage Company, Cleveland, Ohio, a corporation of Ohio

Application September 16, 1937, Serial No. 164,171
3 Claims. (Cl. 33—147)



1. A measuring beam for an instrument of the class described comprising a central plate, and a pair of separate members which are channeled to straddle the plate, mounted on opposite end portions and on the same side of the plate, each having a diagonally surfaced tongue at one side of the plate and a pair of diagonally surfaced tongues at the other, so arranged that a tongue extends between a pair of tongues at the two sides of the plate to form a true V notch at each side for receiving knife edges.

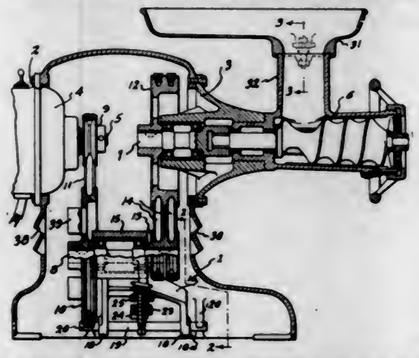
2,158,556

POWER GRINDER

Bjarne A. Wesche, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a corporation of Ohio

Application November 27, 1935, Serial No. 51,856
5 Claims. (Cl. 146—182)

1. In combination with a power grinder having a housing with a base and a motor having a shaft and a grinder having a shaft mounted in said housing with said shafts in a line, a third shaft journaled in bearings in an arbor having two legs projecting therefrom and terminated with bosses, lined projections within the base of said housing, a rod within the boss apertures of said legs and positioned against said projections, a third leg projecting from said arbor and terminating in a threaded lug, a screw in said threaded lug having a spring base on the end thereof, a boss projecting from the inside of said housing base and having a cup, a spring base rotatably positioned within said cup, and a spring positioned between said spring bases, pulleys on said shafts and belts connecting said pulleys on said motor shaft and grinder shaft with the pulleys on said third shaft, and said spring being so adjusted that a given equal tension will be maintained on said belts at all times.



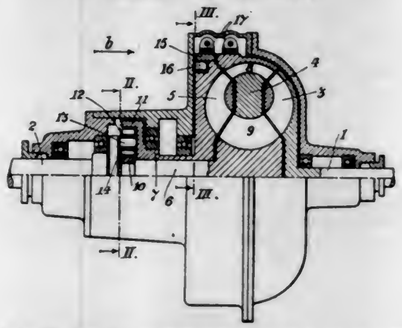
5. A speed reducing mechanism comprising a driving pulley and a driven pulley in axial alignment, an idling shaft carrying at least two pulleys in operative alignment with said driving and said driven pulleys, said idling shaft being journaled between the pulleys in an arbor, means for resiliently urging said arbor and said shaft away from said driving and driven pulleys, said driving and driven pulleys being belted to said pulleys on said idling shaft.

2,158,557

TURBINE

Willem Petrus van Lammeren, Voorschoten, Netherlands

Application February 18, 1937, Serial No. 126,400
In Great Britain August 13, 1936
11 Claims. (Cl. 74—189.5)



1. An hydraulic power transmission of the Föttinger type comprising a driving and a driven element, an impeller vane member on the driving element, a rotatable vane member adjacent the impeller and a second rotatable vane member adjacent the first rotatable vane member, said vane members cooperating to form a fluid-power transmitting circuit, means for selectively preventing rotation of either of said first and second rotatable vane members and an epicyclic gear of which

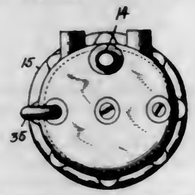
a planet wheel is carried by said driven element and the sun wheel and annulus are respectively connected to the said rotatable vane members.

2,158,558

HYDRAULIC SERVO SYSTEM

Samuel C. Atkins, Montvale, and Harold E. Scofield, East Orange, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application May 2, 1936, Serial No. 77,648
6 Claims. (Cl. 137—78)



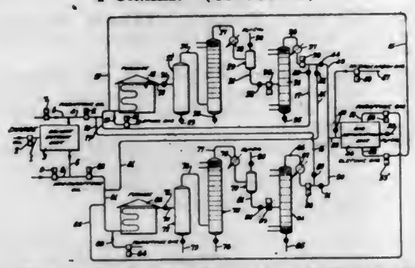
1. In a hydraulic servo system, in combination, a fluid pump, control valve means, piping connecting said pump and control valve means whereby the latter is connected to be supplied with pressure fluid from said pump, a reservoir on a level with or higher than said control valve means, additional piping connecting said reservoir to said pump and to said valve means, whereby said reservoir receives the discharge fluid from said valve means for supplying the same later to said pump, and a drain trap below said control valve means separately connected for receiving leakage fluid from said valve means and for supplying such fluid to said pump, said drain trap comprising a float chamber for receiving the leakage fluid, a float within said chamber, and valve means connected to said float for regulating the flow of leakage fluid from said float chamber to said pump.

2,158,559

PRODUCTION OF MOTOR FUEL

Harold V. Atwell, White Plains, and Malvin R. Mandelbaum, New York, N. Y., assignors to Process Management Company, Inc., New York, N. Y., a corporation of Delaware

Application January 9, 1936, Serial No. 58,270
4 Claims. (Cl. 196—9)



1. The method of producing low-boiling hydrocarbon oil suitable for use as motor fuel from relatively heavy hydrocarbon oil and normally gaseous hydrocarbons which comprises separating said oil into a highly paraffinic fraction relatively free of non-paraffinic constituents and a non-paraffinic fraction relatively free of paraffinic constituents, subjecting the highly paraffinic fraction together with gases predominating in olefinic constituents substantially free from hydrogen and methane to elevated pressure and temperature effective to promote decomposition of said oil fraction and polymerization of said olefinic gas, fractionating the products to separate and recover materials higher boiling than the desired motor fuel product, normally gaseous hydrocarbons, and a gasoline fraction, separating gases predominating in paraffinic constituents from said normally gaseous hydrocarbons, separately subjecting said non-paraffinic oil fraction together with at least a portion of said gases predominating in paraffinic constituents to elevated temperature and pressure effective to promote reaction between said normally gaseous hydrocarbons and said oil fraction, thereby producing gasoline, and fractionating the products to recover a second gasoline fraction therefrom.

2,158,560

TREATMENT OF SHEET MATERIAL

Frederick K. Bezzenberger, Shaker Heights, Ohio, assignor to The Standard Envelope Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 28, 1936, Serial No. 61,233
7 Claims. (Cl. 91—70)



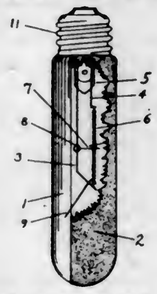
1. The method of making one piece window envelopes, which comprises applying normally solid transparentizing material to one surface only of a sheet of paper, directing heat against only the surface of said sheet to which said material has been applied, subjecting the sheet to said heat until the material has been rendered fluid and caused to penetrate the paper and simultaneously permitting air to circulate along the side of the sheet of paper opposite that to which the material was applied, and thereafter permitting said sheet to cool until the transparentizing material has solidified.

2,158,561

REFLECTOR BULB LAMP

Orrick H. Biggs, Beverly, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts

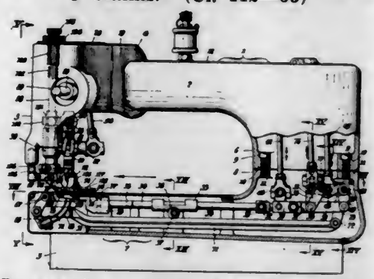
Application June 9, 1938, Serial No. 212,725
2 Claims. (Cl. 176—34)



1. A gas-filled incandescent lamp having a coiled tungsten filament and having a material portion of its inner surface coated with metallic

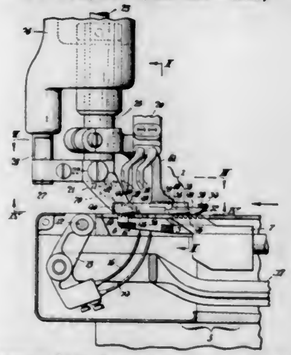
aluminum, the aluminum serving as a means to substantially prevent blackening of the bulb throughout the life of the filament.

2,158,562
SEWING MACHINE
Hans Hacklander, Tinley Park, and Harold J. Le Vesconte, Western Springs, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application September 19, 1936, Serial No. 101,588
5 Claims. (Cl. 112—63)



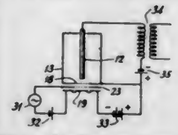
1. In a sewing machine, a work support; feeding means for longitudinally advancing fabric tubularized about the work support, with its lateral edges abutted in upstanding relation; means beneath the work support for actuating the feeding means; means for laterally folding over the abutted margins downwardly flat into superimposition upon the exposed face of the fabric; a group of upwardly-penetrating needles transversely-arranged with respect to the direction of feeding, certain of said needles being adapted to pass through the three thicknesses of fabric at the fold, and others through the single fabric thicknesses at opposite sides of the fold; a common holder for the needles; means beneath the work support for actuating the holder; looper means adapted to cooperate with the needles above the work support; and means for actuating the looper means.

2,158,563
PRESSER FOOT FOR SEWING MACHINES
Hans Hacklander, Tinley Park, and Harold J. Le Vesconte, Western Springs, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application September 19, 1936, Serial No. 102,400
20 Claims. (Cl. 112—235)



4. A presser foot for sewing machines having a longitudinal slot open at the toe end to receive upstanding abutted margins of advancing fabric; a member in the form of a bar with an inclined surface progressively increasing in angularity toward the horizontal to cooperate with a complementally-configured surface along one edge of the slot in folding over the abutted margins flat into superimposition upon fabric, said member having a lateral shank slidably guided in one side of the presser foot; a spring bearing against the end of said shank to yieldingly urge the folding member inward; and independently yielding means to hold down the fold for stitching.

2,158,564
ELECTRON DISCHARGE DEVICE
Wilber L. Meier, North Arlington, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application March 27, 1937, Serial No. 133,300
8 Claims. (Cl. 250—27)



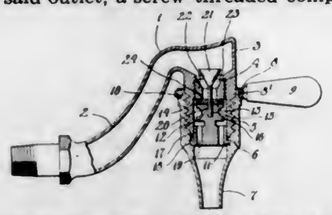
1. An electron discharge device having an envelope containing a gas, a thermionic cathode within said envelope for emitting electrons, a hollow anode surrounding said thermionic cathode for enclosing the space between said thermionic cathode and said anode, means for applying a voltage between said thermionic cathode and anode less than that required for maintaining ionization between said thermionic cathode and anode, and means for ionizing the space between said thermionic cathode and anode and including an auxiliary cathode and an auxiliary electrode through which electrons from said auxiliary cathode can pass into the space between said thermionic cathode and said anode, means for applying a voltage between said auxiliary cathode and said anode for causing electrons to be projected with sufficient velocity into the space between said thermionic cathode and said anode to ionize the gas between said thermionic cathode and anode.

2,158,565
PROCESS FOR MAKING HARSH TOBACCO MILD AND THE RESULTANT PRODUCT THEREOF
Andrew T. Andrews, Rahway, N. J., assignor of one-half to Standard Commercial Tobacco Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 27, 1937, Serial No. 161,336
11 Claims. (Cl. 131—31)

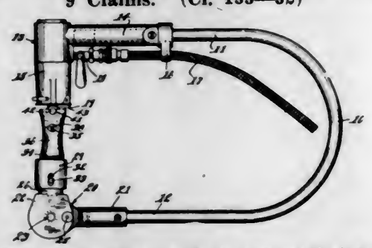
1. Wax-coated smoking tobacco.

2,158,566
WATER FAUCET
Alexander Bamberger, Winnipeg, Manitoba, Canada, assignor of one-third to Joseph Ruml and one-third to Henry Kreuzer, both of Winnipeg, Manitoba, Canada
Application October 27, 1936, Serial No. 107,761
In Canada October 28, 1935
1 Claim. (Cl. 284—19)

A faucet comprising in combination with a conduit outlet externally screw-threaded upon the outer end thereof to receive a rotatable internally screw-threaded nozzle having a handle attached thereto, a primary valve and washer positioned within said nozzle to seal said outlet when said nozzle is rotated in one direction, an auxiliary reversed frusto-conical cut-off valve within said outlet, a screw-threaded complementary seating for said cut-off valve, a vertical stem secured to the lower end thereof, said stem extending into a passageway formed in said primary valve, said cut-off valve proceeding downwardly under pressure or by gravity upon the removal of said nozzle.



2,158,567
PNEUMATIC HAMMER
Ferdinand H. Borm, Elgin, Ill.
Application April 23, 1936, Serial No. 75,989
9 Claims. (Cl. 153—32)



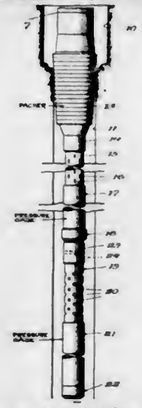
1. The combination with a pneumatic hammer having a U-frame and a hammer head thereon, of a die, a spindle support therefor upon said frame, said die having a cross bore and a cross member carried by the spindle support and extending into said cross bore, said cross bore being considerably larger than the cross member to permit relative movement of the die on the spindle support axially and circumferentially.

2,158,568
PNEUMATIC HAMMER
Ferdinand H. Borm, Elgin, Ill.
Application September 16, 1936, Serial No. 101,030
3 Claims. (Cl. 121—11)



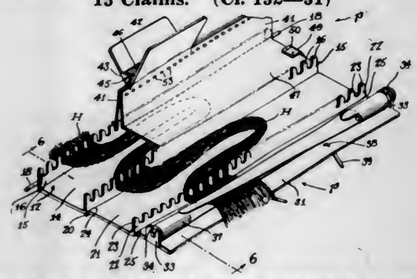
1. An automatic hammer of the character described comprising a hammer cylinder, a hammer therein adapted to be reciprocated under fluid pressure, a tool holding sleeve in said cylinder, said cylinder having an internal outwardly facing shoulder, a spring between the sleeve and shoulder normally moving the sleeve forward, removable guide means coacting between the sleeve and cylinder to prevent turning of the sleeve and permit limited axial movement thereof, a valve cylinder adjacent the hammer cylinder with a passageway therebetween, a valve having a stem in said valve cylinder, a member operable in the valve cylinder adapted to engage the valve for unseating the same and having a cam surface, there being a cam surface around the inner portion of said sleeve formed by a reduced portion thereof, and a ball in said passageway adapted to simultaneously engage said surfaces in opposite directions to open said valve when tool pressure is applied against said sleeve and hold said valve open during the continued application of pressure.

2,158,569
FORMATION TESTER
Lot Bowen, Bakersfield, Calif., assignor to Western Gulf Oil Company, Pittsburgh, Pa., a corporation of Delaware
Application May 24, 1938, Serial No. 209,796
3 Claims. (Cl. 73—51)



2. An apparatus for testing productivity of oil well formations comprising in combination a tail pipe adapted to be lowered into a well, valve means arranged to control flows through the tail pipe, a packer surrounding the tail pipe and arranged to make a seal with the well walls above the producing formation, a fine perforate test conduit extension below the packer, a pressure recorder responsive to pressures within the perforate extension, a relatively coarse-perforate member below the first member and out of communication therewith, and a pressure recorder responsive to pressures within said coarse-perforate member.

2,158,570
HAIR WAVING DEVICE
Laura M. Chandonnet, Haverhill, Mass.
Application August 6, 1938, Serial No. 223,417
15 Claims. (Cl. 132—31)



1. A hair waving device comprising in combination a hair waving plate having upstanding

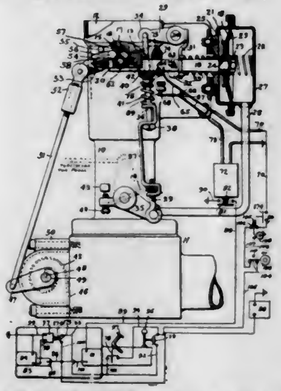
sides spaced apart having teeth projecting upwardly, a bottom between said sides, and a companion retainer member having a plate adapted to fit between said sides and over said bottom having clamping means adapted to clamp on one of said sides and hold said retainer plate in position between said sides.

2,158,571
ICE CAP
Robert G. Culp, Conemaugh, Pa.
Application November 7, 1936, Serial No. 109,778
2 Claims. (Cl. 150—2.3)



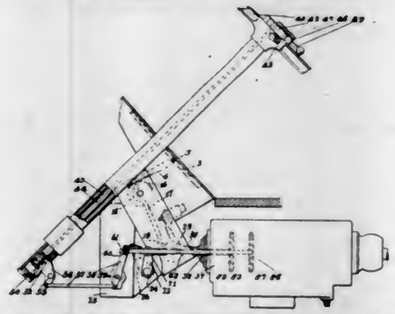
1. A device for the alleviation of headaches, fevers, etc. comprising a cap-like member adapted for snug disposition upon the human head, said cap-like member having a front cell which in use normally lies over the front part of the patient's head and which is adapted to contain cracked ice, a rear drainage cell which in normal use lies over the rear part of the patient's head and a perforated wall common to said cells adapted to permit water from the melting ice in said front cell to flow automatically into said rear drainage cell while retaining the ice in said front cell.

2,158,572
AUTOMATIC ENGINE CONTROL
Myron S. Curtis, Pawtucket, R. I., assignor to William Wallace Potter, Pawtucket, R. I.
Application February 1, 1933, Serial No. 654,724
10 Claims. (Cl. 290—37)



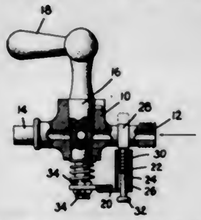
1. An internal combustion engine having an intake manifold, a throttle valve and ignition means including a switch for the latter, a starter motor for the internal combustion engine, means controlling the running of the starter motor and operation of said throttle valve sequentially by variations in pressure in the intake manifold of the engine caused by operation of the latter, a generator driven from the engine, and means independent and separate from said pressure actuated controlling means and affected in its operation by the amount of voltage generated by said generator for rendering said starter motor ineffective when the generator produces a voltage and upon drop of said voltage the starter motor control means is placed in condition for effective operation of the starter motor by the aforesaid variation in manifold pressure.

2,158,573
TRANSMISSION MECHANISM
Rollie R. Eastin, Port Huron, Mich., assignor of five per cent to Jesse C. Castator and Loretta Castator, ten per cent to Walter Burns, ten per cent to Robert A. Gray, Jr., ten per cent to William Burns, and fourteen per cent to Reginald Smith, all of Port Huron, Mich.
Original application March 31, 1936, Serial No. 71,915. Divided and this application November 3, 1936, Serial No. 109,047
4 Claims. (Cl. 74—372)



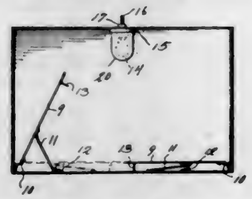
1. In transmission mechanism, a driven shaft, a gear center fixed thereon, and having a peripheral recess, a ring gear mounting on said center and having a recess to match the recess therein, a key located in the gear center recess, resilient means adapted to press the key outwardly, said key having a cross pin against which the resilient means bears, a bar extending through the gear center recess and its key, having a notch, and means to shift the bar so as to register the notch with the cross pin thus enabling the resilient means to extend the key from the gear center into a bridging position across said center and gear.

2,158,574
SAFETY COCK
Alma Feiks, New York, N. Y.
Application December 6, 1937, Serial No. 178,202
5 Claims. (Cl. 251—164)



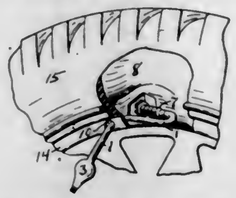
1. A safety cock comprising a valve casing, a supply line entering said casing, a plug valve extending through said casing, a handle fixedly attached to one end of said valve, means providing a chamber and attached to the other end of said valve, a bent arm extending out of said chamber and movable to catch around and be released from said supply line, a spring in said chamber and adapted for holding said arm caught around said line, and a push button on said arm for moving said arm against the action of said spring to release said arm from said line whereby said valve and handle become movable.

2,158,575
CABINET FOR POWDERING AND TURNING INSIDE-OUT OF RUBBER GLOVES
Roy V. Foster and Katherine Foster, Jackson Heights, N. Y.
Application January 28, 1938, Serial No. 187,428
4 Claims. (Cl. 91—60)



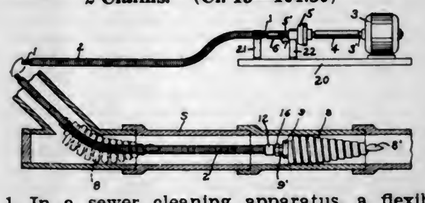
1. A means for powdering surgical rubber gloves and the like comprising a cabinet having a window in one of its walls to permit visual access therein, a wall of the cabinet having openings for the insertion of the hands and forearms within the cabinet, sleeves carried by said wall defining the openings and arranged exteriorly of the cabinet, shelves within the cabinet, means for hingedly connecting said shelves to opposed walls of the cabinet at a point above the bottom of the cabinet, said shelves when lowered providing a false bottom, means for supporting the free end portion of the shelves when lowered with the shelves substantially coplanar, and means coacting with each of the shelves for holding the same in a raised position.

2,158,576
EXTENSION TUBE FOR INFLATING AUTOMOBILE TIRES
Eugene E. Glassley, South Whitley, Ind.
Application September 8, 1937, Serial No. 162,912
2 Claims. (Cl. 152—415)



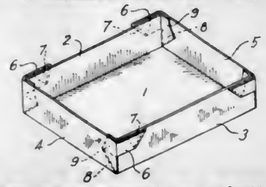
1. An appliance for facilitating inflation of automobile tires consisting of a flexible extension tube having at one end thereof a nipple attachable to the valve-stem on the inner tube of a tire, the other end thereof having an enlargement constituting a knob and also a second nipple containing a valve, and a flexible push-member extending within the bore of said tube operably associated with the valve in said second nipple and with the valve in the valve-stem of said inner tube when said extension tube is connected with said valve-stem whereby both valves are opened when the nozzle of an air pressure tester is applied to said second nipple.

2,158,577
SEWER CLEANING TOOL
Timothy Haley, Springfield, Ohio, assignor of one-half to George R. Krumholtz, Springfield, Ohio
Application July 24, 1937, Serial No. 155,415
2 Claims. (Cl. 15—104.30)



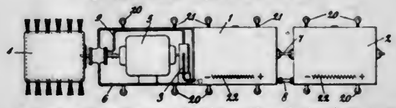
1. In a sewer cleaning apparatus, a flexible driving shaft, means at one end of said shaft for driving the same, and a cutting tool secured to the other end of said shaft, said cutting tool consisting of a spirally wound steel ribbon to present a tool of conical form, the turns of said ribbon being capable of relative telescopic movement upon meeting an obstruction.

2,158,578
FOLDING BOX
Roderick W. Hoag, Melrose, Mass.
Application October 16, 1936, Serial No. 105,983
2 Claims. (Cl. 229—32)



1. A folding box comprising a bottom, upright front and rear walls and end walls, the said end walls being provided at each end thereof with a flap and each flap being provided with an extension folded against the flap on a line radiating substantially from the apex of the corner of the bottom and secured to the outside surface of the corresponding front or rear wall; the said front and rear walls being provided at each end thereof with a flap and each flap being provided with an extension folded against the flap on a line radiating substantially from the apex of the corner of the bottom and secured to the inside surface of the corresponding end wall.

2,158,579
APPARATUS FOR RECONDITIONING OR PAINTING PIPE LINES
Albert Frederick Hodgkins and Arthur Martin Colthurst Jameson, Slough, England
Application May 21, 1937, Serial No. 144,076
In Great Britain May 4, 1937
9 Claims. (Cl. 91—39)



1. Apparatus for painting the interior surface of a pipe line with a liquid coating medium, which comprises in combination and in the form of a self-contained power-operated mechanical painting unit adapted to be traversed as such through the pipe line to be painted, a reservoir for

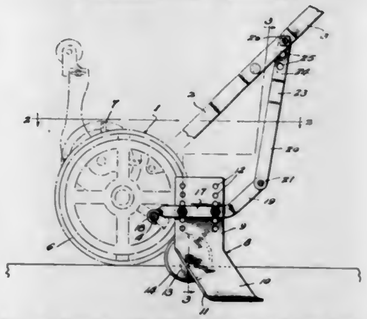
the coating medium; a pump; a motor; a rotary brush which is so positioned in the unit as when the unit is in position in the pipe line to be concentric therewith, is of a size completely to fill the section of the pipe line, and is formed with a hollow cylindrical body which carries the bristles of the brush upon its peripheral wall and is perforated in said peripheral wall for the issuance therethrough of coating medium pumped into the interior of the body by way of the pump from the reservoir; means drivingly connecting the motor to the pump and also to the brush; and means placing the reservoir in communication with the pump and the pump in turn in communication with the brush for the conveyance under the action of the pump and by way thereof of coating medium from the reservoir to the brush.

2,158,580

LAWN TRIMMER AND EDGER

William P. Houser, Belle Center, Ohio

Application November 5, 1936, Serial No. 109,388
2 Claims. (Cl. 97—227)



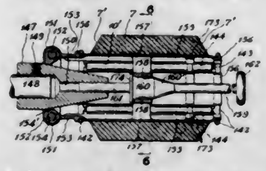
2. In a device of the class described, a U-shaped body obtuse angular in side elevation, said body having a rearwardly disposed blade formed with a V-shaped cutting edge, an edging disc carried by the body, mounting bars removably engageable with a connecting rod of a lawn mower, mounting bolts adjustably mounting the body on the mounting bars, and supporting bars connecting the mounting bars with the handle of the lawn mower for rigidly mounting the body in operative position connected with a mower.

2,158,581

MEANS FOR USE IN SPINNING AND IN LIQUID-TREATING TUBULAR RAYON PACKAGES

Charles A. Huttinger, Lakewood, Ohio, assignor to Acme Rayon Corporation, Cleveland, Ohio, a corporation of Ohio

Original application May 5, 1934, Serial No. 724,114. Divided and this application April 7, 1936, Serial No. 73,145
4 Claims. (Cl. 242—118)



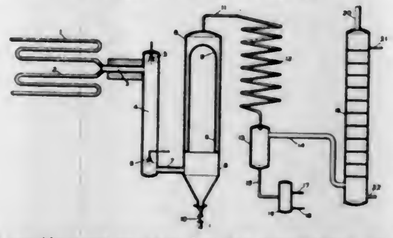
1. Means for use in spinning annular rayon packages and for liquid-treating the collected packages in situ comprising a skeleton bobbin having spaced package-supporting elements formed each with a collecting surface, said surfaces being all equally spaced from a common point and defining a cylindrical collecting surface, bobbin-rotating means upon which the bobbin is removably mounted, said rotating means including spaced elements between the adjacent pairs of which the bobbin elements are positioned, the spaced elements of the bobbin-rotating means having collecting surfaces disposed in the plane of said cylindrical collecting surface and rendering said cylindrical collecting surface substantially continuous, and means for holding the elements of the bobbin-rotating means releasably in position, whereby when the bobbin and the wound package collected thereon are removed from the bobbin-rotating means the bobbin forms a close-fitting support for the wound package and holds the latter against longitudinal displacement.

2,158,582

TREATMENT OF GASEOUS HYDROCARBONS FOR THE PRODUCTION OF LIQUID AROMATIC HYDROCARBONS

Robert M. Isham, Okmulgee, and Max R. Ryan, Tulsa, Okla., assignors to Danciger Oil & Refineries, Inc., Tulsa, Okla.

Application August 8, 1935, Serial No. 35,406
1 Claim. (Cl. 260—673)



A continuous process for the conversion of normally gaseous hydrocarbons to normally liquid aromatic hydrocarbons which consists in subjecting a stream of gaseous hydrocarbons to partial combustion with preheated air to attain a temperature of at least 2000° F., to convert a portion of the gaseous hydrocarbons into acetylene, passing the highly heated stream to a zone where its temperature is instantaneously reduced to a temperature of 1000° F. to 1200° F. by the introduction of a properly regulated proportion of water to prevent an overreaction of the acetylene, regulating the flow of the mixture of gas and steam formed through said zone so as to subject said mixture to said reduced temperature for a time interval which will permit a substantially complete polymerization of the acetylene to form vapors of aromatic hydrocarbons, the proportion of water added in said zone being sufficient to prevent a destructive reaction between the acetylene and said steam during the passage of said mixture through said zone, and thereafter further cooling the mixture and separating gas, water, aromatic hydrocarbons and free carbon from one another.

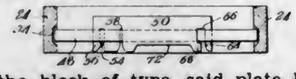
2,158,583

TYPE BINDING MEANS

Charles W. Johnson, Norwood, Mass.

Application May 18, 1937, Serial No. 143,332
7 Claims. (Cl. 101—404)

1. Type binding means comprising a tape to be passed around a block of type and a clamping and locking plate for the tape, said tape being fixed at one end to an end of the plate, said plate having a pair of spaced slots therein adapted to receive a bight of the free end of the tape, one of said slots which is at the opposite end of the plate with respect to the end to which said tape is fixed being formed to provide a shoulder on the plate to retain the tape in said slot, said plate adapted to be turned about the fixed end of the tape as a fulcrum to tighten the tape



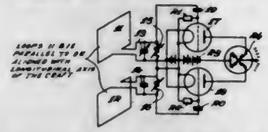
around the block of type, said plate having a pointed prong adjacent the slot at the outer end of the plate adapted to be passed beneath the fixed end portion of the tape to lock the plate to the tape.

2,158,584

COURSE FINDING METHOD AND APPARATUS

Paul Eduard Köster, Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen G. m. b. H., Berlin, Germany, a corporation of Germany

Application March 18, 1935, Serial No. 11,691
In Germany March 17, 1934
8 Claims. (Cl. 250—11)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



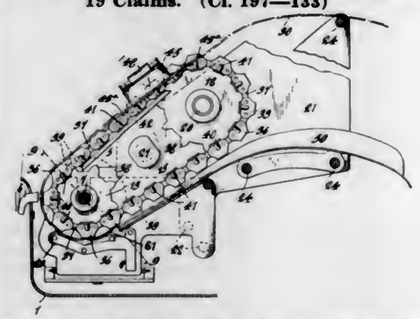
1. The method of determining the course of a vehicle supplied with a plurality of similarly oriented antennae which consists in emitting radiant energy of different frequencies in all directions from a plurality of stations, the amount of power emitted from the one of said stations to be first reached being greater than the amount from another of said stations, said stations being disposed so as to define the desired course, directionally and selectively receiving the energy emitted from each of said stations through channels resonant to the respective frequencies transmitted, and combining the received energy differentially thereby to determine the course of said vehicle with respect to said aligned stations.

2,158,585

TYPEWRITING MACHINE

Carl R. Mabon, Niagara Falls, N. Y., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y., a corporation of Delaware

Application September 19, 1936, Serial No. 101,633
19 Claims. (Cl. 197—133)



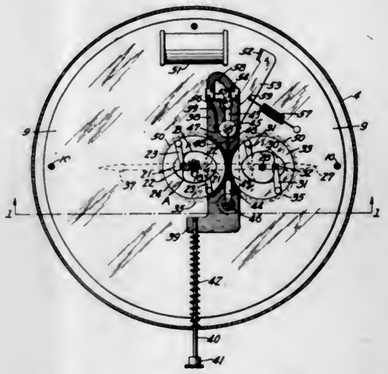
10. In a machine of the character described for feeding and controlling record strips, the combination of a longitudinal series of longitudinally spaced strip feeding pins adapted to enter and to feed the strip and having a path of movement in part alongside the path of the strip, and means for imparting simultaneous movement into strip feeding engagement to a plurality of said longitudinally spaced feeding pins during movement thereof parallel to each other.

2,158,586

CLOCK

Maurice McLelland and Cornelius P. de Jonge, Oakland, Calif.; said de Jonge assignor of one-fourth to said McLelland

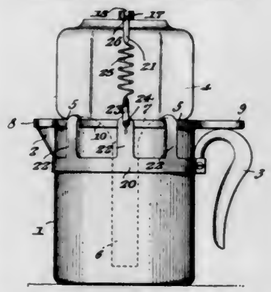
Application April 1, 1935, Serial No. 14,024
8 Claims. (Cl. 58—75)



1. The combination with a clock comprising a frame, a pair of drive shafts journaled on said frame, a motor mounted on said frame and connected to each of said shafts to drive said shafts at constant speed, a dial graduated in units of time, a pair of driven shafts rotatably connected with said drive shafts, indicators mounted for rotation with each of said driven shafts and movable over the face of said dial to indicate time values thereon, of means for connecting said indicators to said frame for preventing movement thereof, said means comprising disks mounted for rotation with each of said driven shafts, each of said disks having serrations formed on the periphery thereof, a pair of fixed resilient arms mounted on said frame and disposed adjacent said disks, said arms having outwardly turned ends for engaging the serrations of said disks, means for moving the ends of said arms into engagement with said disks comprising a slide movably mounted on said frame, a pin mounted on said slide having opposed sloping faces engageable with said arms for forcing the ends thereof outwardly into engagement with the serrations of said disks when said slide is moved, means urging the movement of said slide to engage said pin and arms, means movably mounted on said frame for holding said slide to prevent movement of said pin into engagement with said arms, means for releasing said slide to permit engagement of said pin with said arms, and means for resiliently connecting said drive and driven shafts for rotation together and for permitting continued rotation of said drive shafts while said driven shafts are held against rotation, said means comprising a pair of opposed heart-shaped cams on each of said drive shafts, arms pivotally mounted on said disks having rollers at the free ends thereof, and resilient

means disposed between said arms and said disks for urging said rollers into engagement with the peripheries of said cams.

2,158,587
COFFEE BREWING DEVICE
Condict M. Nevius, Hornell, N. Y.
Application December 28, 1936, Serial No. 117,928
23 Claims. (Cl. 53—3)



1. A steam, vacuum coffee brewing device comprising a lower receptacle open at the top and provided with a pouring means, an upper brewing receptacle communicating with the lower receptacle, and an intermediate member movably interposed between said receptacles having means to cover and uncover the pouring means of the lower receptacle and having continuous sealing contact with said receptacles during the brewing process whereby the pouring means may be uncovered after the brewing process to permit of pouring from the lower receptacle without removing the upper receptacle.

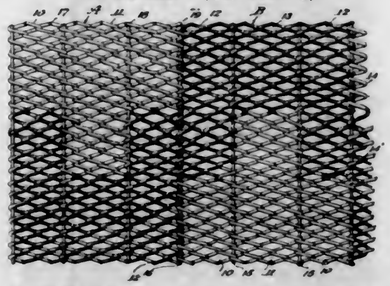
2,158,588
METHOD AND COMPOSITION FOR IMPROVING MILLING PRODUCTS
Frederic H. Penn, Dallas, Tex.
No Drawing. Application December 13, 1938, Serial No. 245,504
10 Claims. (Cl. 99—232)

1. A method for improving wheat flour and other milling products which comprises intimately mixing with the dry milling product a powdered bromate and a powdered active organic peroxide selected from the group consisting of the aromatic and fatty acid peroxides having substantial flour bleaching properties, and subjecting the milling product in dry form to the simultaneous action of the bromate and peroxide for a sufficient time to bleach and mature the product.

2,158,589
METHOD AND COMPOSITION FOR IMPROVING MILLING PRODUCTS
Frederic H. Penn, Dallas, Tex.
No Drawing. Application December 13, 1938, Serial No. 245,505
10 Claims. (Cl. 99—232)

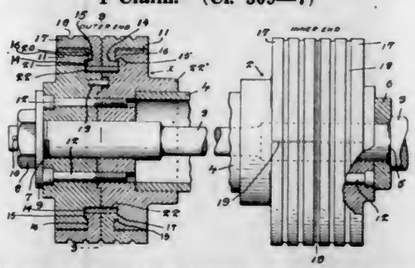
1. A method for improving wheat flour and other milling products which comprises intimately mixing with the dry milling product a powdered iodate and a powdered active organic peroxide selected from the group consisting of the aromatic and fatty acid peroxides having substantial flour bleaching properties, and subjecting the milling product in dry form to the simultaneous action of the iodate and peroxide for a sufficient time to bleach and mature the product.

2,158,590
SPIRAL FABRIC
Clarence E. Pink, Cambridge, Md.
Application October 27, 1937, Serial No. 171,346
11 Claims. (Cl. 245—6)



1. A spiral fabric made up of connected sections respectively composed of interlaced sinistrorsal and dextrorsal strands, said sections longitudinally of the fabric being united on a zig-zag line crossing and recrossing the longitudinal center line of the fabric.

2,158,591
PISTON VALVE
Jesse A. Ramsey, Wenonah, N. J.
Application May 3, 1937, Serial No. 140,541
1 Claim. (Cl. 309—7)



A piston type valve comprising a shaft including piston head stops spaced from each other and one thereof removable from said shaft, spaced annular shaped piston heads mounted on said shaft between said stops, washers on said shaft between said piston heads and the stops, annular flanges formed on opposed faces of the piston heads and spaced from said shaft and providing shoulder portions on said piston heads, a spacing sleeve surrounding the shaft with its ends extending into said flanges and bearing against the shouldered portions for coacting with the stops in preventing sliding movement of the piston heads endwise of the shaft, said piston heads each including companion annular sections having the peripheries thereof surrounded by sealing rings and shaped to receive and clamp therebetween ring flanges of the sealing rings, and fasteners detachably connecting said sections of each piston head and overlapped by said washers to prevent said fasteners from becoming detached from the piston heads.

2,158,592
CLOTHESPIN
Martin V. Robbins, Sacramento, Calif., assignor of one-fourth to Neil R. McAllister and one-fourth to Chris D. Johnson, both of Sacramento, Calif.
Application July 14, 1938, Serial No. 219,233
1 Claim. (Cl. 24—255)

A clothes pin comprising elongated companion

finger pieces normally assuming positions in converging relation, jaws integral with said finger pieces at the converging ends thereof and having grooves in the opposing faces thereof to cooperate in providing a clothes line receiving space, said faces of each jaw being angularly related to permit the faces of the jaws when in engagement with the clothes line to tightly grip said line, a resilient sleeve having a slit extending from end to end thereof and provided with



spaced slots arranged substantially opposite to the slit to receive the finger pieces with the jaws extending out of the sleeve by way of the slit and permitting the sleeve to act to force the jaws toward each other, said jaws having enlargements opposite the faces thereof and provided with arcuately curved bearing surfaces contacting the walls of the sleeve between the slit and the slots to prevent play between the finger pieces and the sleeve and between the latter and the jaws.

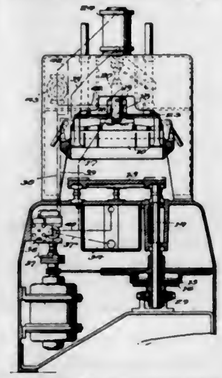
2,158,593
HYPODERMIC SYRINGE
William Scrimgeour, Washington, D. C., assignor to William Scrimgeour, engineer and contractor, a partnership consisting of William Scrimgeour, Lula McA. Scrimgeour, C. Maxwell Scrimgeour, and C. Bailey Scrimgeour, Washington, D. C.
Application April 14, 1937, Serial No. 136,942
6 Claims. (Cl. 128—221)



1. In a syringe, the combination with a barrel and nozzle, of a pair of diametrically opposed members of arcuate form in transverse cross-section extending along and spaced from the nozzle, said members terminating in inturned flanges of segment shape and opposite inclination for interlocking with projections upon the hub of a needle that is to be secured to said nozzle, the edges of the flanges terminating at the side edges of the respective side members.

2,158,594
DOUGH DIVIDER AND ROUNDER
Charles B. Seem, Beacon, N. Y., assignor to Dutchess Tool Company, Beacon, N. Y., a corporation of New York
Application December 3, 1937, Serial No. 177,994
7 Claims. (Cl. 107—20)

5. In a dough divider, the combination of a dough-supporting surface, a divider head comprising a plurality of plunger blocks and divider knives, means releasably interlocking said plungers and knives for movement as a unit toward said surface, a fluid-operated piston for moving said head with the plungers and knives as a unit toward said surface, a fluid supply line for said



piston, and a second fluid-operated piston for actuating said interlocking means to disconnect said plungers and knives, a second fluid supply line for said second piston communicating with the first supply line, and a one-way valve in said second supply line movable to open position upon accumulation of a predetermined pressure on the first-mentioned piston and plunger blocks.

2,158,595
METHOD FOR THE DISPOSAL OF SEWAGE
Edgar A. Slagle, North Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application June 5, 1937, Serial No. 146,688
10 Claims. (Cl. 204—25)

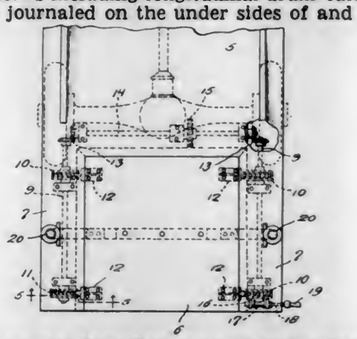
1. Method of treating sewage, having a pH value of about 7, which comprises subjecting the sewage to electrodialysis in the cathode compartment of an electrolytic cell provided with a diaphragm until the pH value of the sewage has been increased by from 0.7 to 1.6 pH and adding thereto a chemical coagulating agent of the group consisting of the soluble salts of iron and aluminum in quantity sufficient to produce sedimentation of solids.

10. Process of treating sewage and sewage sludge which comprises subjecting the sewage and the sewage sludge to electrodialysis in contact with each other through a diaphragm in an electrolytic cell, the sewage occupying the cathode chamber and the sewage sludge the anode chamber of the electrolytic cell, removing sewage from the cathode chamber and separating the solids content thereof to the production of more sludge, delivering the resulting sludge to the anode chamber, and supplying sewage to the cathode chamber to take the place of that removed.

2,158,596
TRUCKING VEHICLE
Meryl F. Swanson, Galva, Ill.
Application February 16, 1938, Serial No. 190,849
4 Claims. (Cl. 214—75)

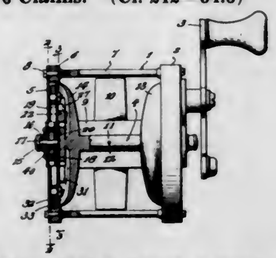
1. In combination, a vehicle body floor provided at its rear end with a vertically movable section constituting an elevator platform and

having fixed portions projecting rearwardly at opposite sides of said vertically movable section, and means including longitudinal drum-carrying shafts journaled on the under sides of and sup-



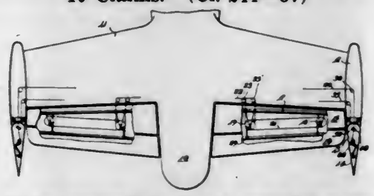
ported by said fixed floor portions and operatively connected to opposite sides of said vertically movable floor section for raising and lowering the latter.

2,158,597
FISHING REEL
William F. Watson, Bradenton, Fla.
Application March 25, 1935, Serial No. 12,968
6 Claims. (Cl. 242—84.6)



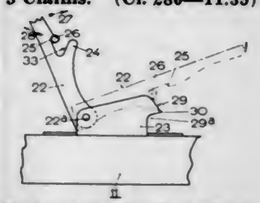
5. In a fishing reel, a frame, a spool rotatable therein, a ratchet wheel carried by the spool, a disc rotatable on the spool adjacent the ratchet wheel and having a pawl for connecting the disc and the spool, a cover on the frame, and means on the disc and engageable with the cover at too fast rotation of the disc and spool for retarding rotation of the disc and spool.

2,158,598
AIRCRAFT CONSTRUCTION
Michael Watter, Baltimore, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application November 30, 1937, Serial No. 177,202
10 Claims. (Cl. 244—87)



1. In an aircraft having a sustaining surface, a tail construction spaced behind and separate from the sustaining surface, and a fuselage connecting said tail construction to said sustaining surface, said tail construction including a fixed stabilizing surface, a movable trim surface and a movable control surface, the said trim surface and control surface being located rearwardly of the said stabilizing surface and the said trim surface being positioned intermediately of the said control surface and the said stabilizing surface.

2,158,599
SKI ATTACHMENT
Stéphan Weber, Sallanches, France
Application November 19, 1938, Serial No. 241,414
In France November 17, 1937
5 Claims. (Cl. 280—11.35)



1. Attaching means for fastening a boot to a ski comprising, a toe grip permanently connected to the ski and adapted to receive the forward sole portion of boot therein, a strap detachably connected to said toe grip and adapted to pass across the upper front face of the boot vamp, a substantially flat strap adapted to resiliently maintain the heel of the boot in engagement with the ski, said strap adapted to pass across the boot instep and ankle and being provided with a spindle connecting its free ends, and latching means for attaching the ends of said strap to the ski, said latching means comprising a lever pivotally attached to a member permanently secured to the ski, a reentrant recess in said lever adapted to receive said spindle, and means on said permanently secured member for maintaining said latching means in latched position against stresses imparted thereto through the spindle.

2,158,600
HEATING UNIT AND METHOD OF MAKING THE SAME
Edwin L. Wiegand, Pittsburgh, Pa.
Application September 7, 1935, Serial No. 39,576
14 Claims. (Cl. 201—64)



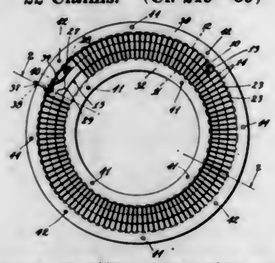
5. The method of making an electrical heating element, which includes: embedding a resistor in compactible refractory insulating material in an impressionable state in an open sheet metal channel, applying force to compact said material about said resistor within said channel while leaving said channel in its open state, thereby to bring said insulating material to a predetermined cross-sectional shape, and then applying force to bend the flanges of said channel toward each other and against the exposed surface of said insulating material to form a substantially continuous sheath around said material, leaving said insulating material with substantially said predetermined cross-sectional shape.

2,158,601
ELECTRICAL HEATING APPARATUS AND METHOD OF MAKING THE SAME
Edwin L. Wiegand, Pittsburgh, Pa.
Application April 13, 1937, Serial No. 136,590
29 Claims. (Cl. 219—39)



1. An electrical heating unit having a body having at least a portion the general longitudinal locus of which is non-rectilinear; said body portion including a resistor, a metallic sheath for said resistor, and means for insulating said resistor from said sheath; and heat dissipating means on said portion, including a plurality of annular members disposed axially adjacent each other about said portion, said annular members being respectively provided with a transversely extending flange.

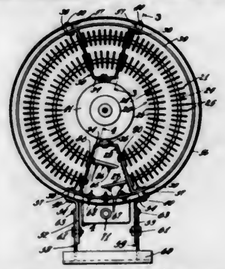
2,158,602
ELECTRICAL HEATING APPARATUS
Ernest N. Calhoun, Pittsburgh, Pa., assignor, by mesne assignments, to Edwin L. Wiegand, Pittsburgh, Pa.
Application April 13, 1937, Serial No. 136,587
22 Claims. (Cl. 219—39)



1. Electrical heating apparatus, comprising: an electrical heating element; a wall spaced from and disposed alongside of said heating element, said wall being provided by the bottom portion of a channel shaped element the flanges of which are directed away from said heating element; and heat dissipating means for dissipating heat from said heating element, said heat dissipating means being fastened to said wall.

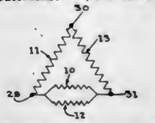
2,158,603
ELECTRIC HEATING APPARATUS
Ernest N. Calhoun, Pittsburgh, Pa., assignor, by mesne assignments, to Edwin L. Wiegand, Pittsburgh, Pa.
Application April 13, 1937, Serial No. 136,588
23 Claims. (Cl. 219—39)

1. In combination: an electrical heating element having an arcuate body portion; means, including plates extending transversely of said body portion and respectively fastened to said body portion near its ends, constructed and arranged to support said heating element; said heating element having an end portion disposed between said plates and having means for receiving electric conductor terminals on said end portion; and



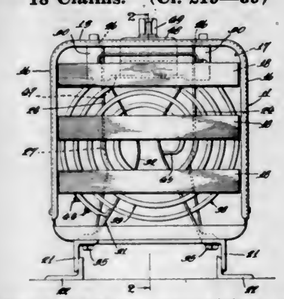
removable cover means, extending transversely between said plates, constructed and arranged to prevent undesired access to said terminal receiving means and removable to permit desired access thereto.

2,158,604
ELECTRIC HEATING APPARATUS
Ernest N. Calhoun, Pittsburgh, Pa., assignor, by mesne assignments, to Edwin L. Wiegand, Pittsburgh, Pa.
Original application April 13, 1937, Serial No. 136,588. Divided and this application January 6, 1938, Serial No. 183,605
15 Claims. (Cl. 219—39)



1. In combination: a plurality of electrical heating elements for connection to a multi-phase supply, the number of said heating elements being greater than the number of phases of the supply and being other than a multiple of said number of phases, at least two of said heating elements each having a capacity a predetermined fraction of the individual capacity of the other elements; and means for so connecting said elements to the supply that the load on the supply is balanced.

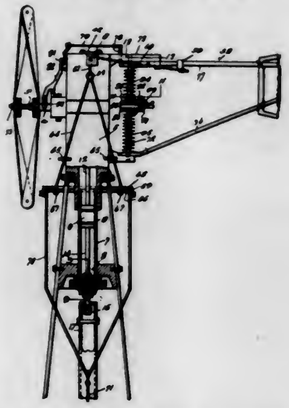
2,158,605
HEATING APPARATUS
Edwin L. Wiegand, Pittsburgh, Pa.
Application April 13, 1937, Serial No. 136,591
18 Claims. (Cl. 219—39)



1. Heating apparatus, comprising: a plurality of arcuate-shaped heating units; and a supporting member, formed of a single strip bent to generally X-shape, each leg of said member be-

ing provided with recesses formed in opposite edge surfaces, the recesses on respective surfaces of said member being constructed and arranged to receive portions of respective heating units, so as to support said units from the opposite marginal surfaces.

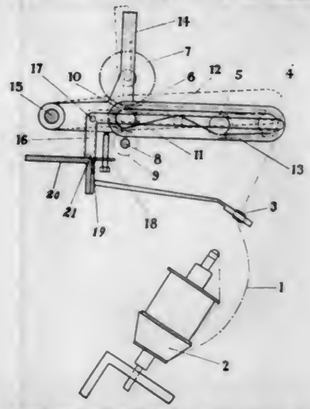
2,158,606
WINDMILL
Charles H. Wigzell, Big Lake, Tex., assignor of two-eighths to J. C. Wigzell, one-eighth to Ralph Wigzell, and one-eighth to Alden Wigzell, all of Big Lake, Tex.
Application August 19, 1937, Serial No. 159,961
3 Claims. (Cl. 170—47)



1. A windmill construction comprising a wind operated vane, a rod structure operated by the vane, a vertical barrel, a packing gland in the barrel, a gear case mounted at the upper end of the barrel, said vane having a shaft extending into the case, said packing gland being adapted to prevent lubricant from escaping from the case and barrel, a sun gear carried by the inner end of the vane shaft, a ring gear fastened to the inside of the gear case, planetary gears meshing with the ring gear and the sun gear, an annulus, a stub shaft extending from one of the planetary gears and into the annulus, said rod being connected to the annulus.

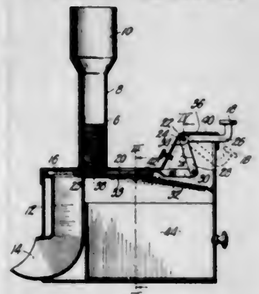
2,158,607
THREAD DRAWING OFF DEVICE ON DOUBLE TWIST TWISTING MACHINES
Otto Bochmann, Remscheid-Lennep, Rhineland, Germany, assignor to Barmer Maschinenfabrik Aktiengesellschaft, Wuppertal - Oberbarmen, Germany
Application February 25, 1938, Serial No. 192,477
In Germany March 3, 1937
4 Claims. (Cl. 242—128)

1. A thread drawing off device on double twist twisting machines, comprising in combination thread drawing off cylinders, a winding bobbin, a driving cylinder for said winding bobbin, a one-armed lever carrying said thread drawing off cylinders and said driving cylinder, a spur wheel on said driving cylinder, transmission elements for transmitting the movement of said driving cylinder to said drawing off cylinders, a continuously driven shaft, a spur wheel on said shaft adapted to mesh with said first mentioned spur wheel to drive said driving cylinder, a fixed bolt about which said one-armed lever is oscillatable to bring said spur wheels into mesh to drive said driving cylinder and said drawing-off cylinders through the intermediary of said transmission



elements, and out of mesh to stop simultaneously said driving cylinder and said drawing off cylinders.

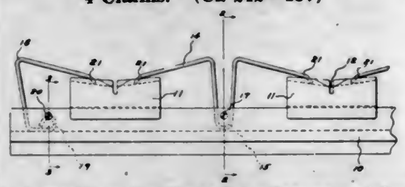
2,158,608
TOKEN DISPENSER
Thomas Gus Bogress, Kirksville, Mo.
Application January 3, 1938, Serial No. 182,981
1 Claim. (Cl. 133—5)



A token dispenser of the character described comprising a sheet metal case having a top constituting a raised horizontal portion along one edge thereof and an inclined wall joining the raised portion with the remaining part of the top, said remaining part of the top being also horizontal and provided with a plurality of perforations therethrough; a vertical token magazine in communication with each perforation respectively; a chute in the case disposed between said perforations and the opposite edge of the top; a reciprocable slide having an opening therethrough underlying each perforation respectively to receive tokens from the respective magazines through the perforation in communication therewith when the slide is at one end of its path of travel and to deposit the token in the chute when the slide is at the other end of its path of travel; a spring for each slide to yieldably maintain the latter at said one end of its path of travel; a bell-crank lever for each slide respectively, pivotally mounted at its elbow within the case at the zone of juncture between the raised horizontal portion and said inclined wall; a link interconnecting the free end of one arm of each bell-crank lever with its respective slide, the free end of the other arm of each lever being projected exteriorly of the case and

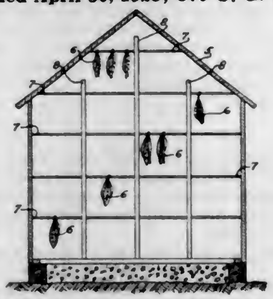
having a finger-piece thereon, said first mentioned arm of each bell-crank lever being adjacent to the inclined wall when the same is moved to position the opening of its associated slide over the said chute, said second mentioned arm being adjacent to the raised horizontal portion of the case when the opening of its associated slide is in register with the overlying perforation in the top; a set screw carried by the inclined wall for engagement with the first mentioned arm of the bell-crank lever to form an adjustable stop for the said lever and the slide; and a bendable tongue struck from the raised horizontal portion of the top, said tongue being engageable with the second mentioned arm of the bell-crank lever to form a stop, said set screw being a stop to limit the movement of the slide in one direction, said tongue being a stop to limit the movement of the slide in the other direction.

2,158,609
RETAINER WIRE FOR THREAD GUIDES
Peleg B. Briggs, Ashway, R. I., assignor to The Atwood Machine Company, Stonington, Conn., a corporation of New Jersey
Application July 31, 1937, Serial No. 156,701
4 Claims. (Cl. 242—157)



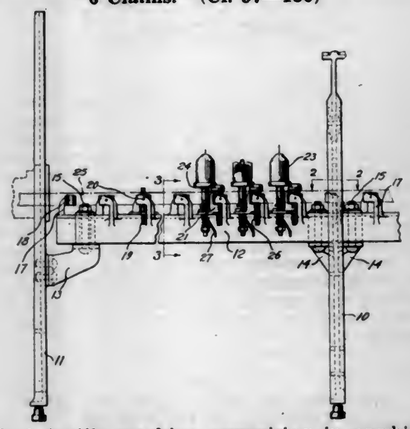
1. A retainer for thread guides comprising in combination a traverse bar having a longitudinal groove formed therein, thread guides mounted thereon, a wire having a central open loop adapted to enter the groove in said bar, oppositely extending end portions of said wire resiliently engaging against the upper surfaces of and holding adjacent guides on said bar, the entire length of said retainer being substantially in a single plane. and a holding member for said wire extending transversely through the bar, intercepting said groove and passing freely through said loop.

2,158,610
TOBACCO PRODUCT AND METHOD OF OBTAINING THE SAME
Mayne R. Coe, Washington, D. C.
Application November 18, 1936, Serial No. 111,441
9 Claims. (Cl. 131—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



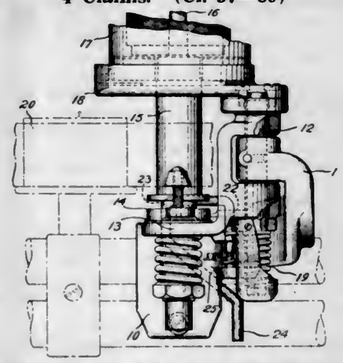
1. The process of curing tobacco products, which comprises inclosing the tobacco products in containers having a spectral transmission of only above 4900 Angstrom units of the spectrum and exposing the inclosed tobacco products while in the containers to such spectral transmission.

2,158,611
TEXTILE MACHINE
William R. Gordon, Stonington, Conn., assignor to The Atwood Machine Company, Stonington, Conn., a corporation of New Jersey
Application August 26, 1938, Serial No. 226,993
6 Claims. (Cl. 57—136)



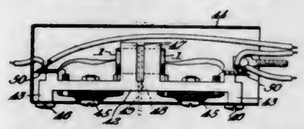
1. A textile machine comprising in combination, a plurality of vertical frames, horizontal members secured at their opposite ends to adjacent frames, integral brackets formed in said members, and spindle mountings secured in said brackets.

2,158,612
SWINGING SPINDLE UNIT FOR TEXTILE MACHINES
William R. Gordon, Stonington, Conn., assignor to The Atwood Machine Company, Stonington, Conn., a corporation of New Jersey
Application August 26, 1938, Serial No. 226,994
4 Claims. (Cl. 57—89)



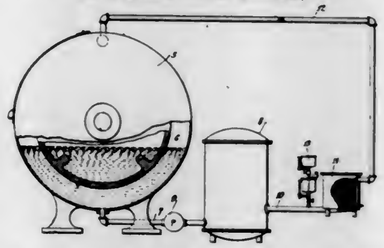
1. A swinging spindle unit for textile machines comprising in combination, a fixed bracket, a spindle unit supporting bracket pivotally mounted thereon, a lever pivotally supported within said fixed bracket and having an intermediate portion engaging and retaining said spindle unit in inoperative position when said lever is in one position, said lever being extended downward to form an operating handle therefor.

2,158,613
HIGH FREQUENCY INDUCTANCE COIL
William D. Loughlin, Mountain Lakes, N. J., assignor, by mesne assignments, to Ferrocart Corporation of America, New York, N. Y., a corporation of Delaware
Application November 3, 1936, Serial No. 109,019
2 Claims. (Cl. 250—16)



2. A transformer comprising a shield can, a base of insulating material within said can and having ribs projecting from one face thereof to engage a side wall of the can, means entering said ribs to secure the base to the can, spaced pillars projecting from the other face of the base, said pillars having bores extending therethrough, a magnetic core in each bore and carrying a coil, and adjustable trimmer condenser connected across each coil, and means supporting said condensers on said base at the face thereof adjacent said side wall of the shield can, said side wall having openings therethrough providing access to the condenser for adjustment thereof.

2,158,614
METHOD OF DRY CLEANING AND APPARATUS THEREFOR
Warren T. Reddish, Cincinnati, Ohio, assignor, by mesne assignments, to Emery Industries, Inc., a corporation of Ohio (1935)
Application February 17, 1934, Serial No. 711,774
18 Claims. (Cl. 8—142)

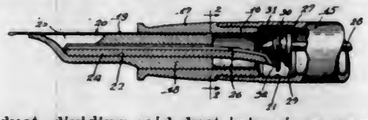


1. A dry cleaning system comprising, a washer, a homogenizer, means for pumping the dry cleaning solvent from the washer to the homogenizer and back to the washer, and means for introducing water into the solvent being pumped from the washer to the homogenizer.

6. The method of dry cleaning which comprises agitating the articles to be cleaned in a bath of moisture absorbent dry cleaning solvent, and adding to said bath over a period of time as the articles are being cleaned a homogenized mixture of moisture absorbent dry cleaning solvent and water.

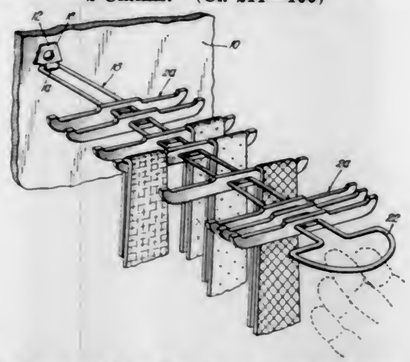
2,158,615
FOUNTAIN PEN
Howard S. Wright, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application July 26, 1937, Serial No. 155,628
6 Claims. (Cl. 120—50)

1. A fountain pen including a feed bar having a shank portion adapted to be mounted within the end of the barrel thereof and an extending nib supporting portion, an internal longitudinally extending feed duct of circular cross section communicating at one end with the writing fluid reservoir of the barrel, a fissure extending over a portion of the nib supporting portion and communicating with said feed duct, and an insert of substantially rectangular cross section in said



feed duct, dividing said duct into air passages on opposite sides along the greater width of said insert with the narrow sides of said insert engaging the wall bounding said duct and sealing said fissure of said nib supporting portion, said insert having writing fluid channels on said sides of greater width and a notch across the narrow sides thereof communicating between said writing fluid channels and said fissure.

2,158,616
NECKTIE HOLDER
Edward B. Blameuser, Niles Center, Ill.
Application January 24, 1938, Serial No. 186,498
2 Claims. (Cl. 211—100)

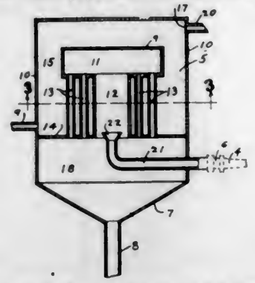


1. In a necktie holder, in combination, an elongated wire frame having a handle portion on one end thereof, a base providing journalling means for the other end of said frame which is pivotally supported thereby, a plurality of tie supporting members disposed transversely of the frame and extending a distance on each side of the frame for supporting a tie thereon, each member having an opening therein whereby the members are mounted on said frame in a manner to permit slidable movement, and said handle portion extending laterally beyond the frame to provide bearing portions for supporting the tie supporting members when the frame depends vertically from said base.

2,158,617
EVACUATING ECONOMIZER FOR CLOTHES PRESSING MACHINES
Samuel Parker Densmore, Baltimore, Md., assignor of fifty per cent to Marlin Evans Smith, Baltimore, Md.
Application August 16, 1937, Serial No. 159,410
2 Claims. (Cl. 257—28)

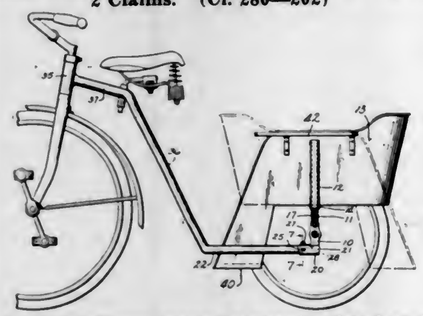
2. A condenser of the class described, comprising in combination a casing adapted to form the outer wall of the condenser and having a bottom

portion with outlet therein, a plate for dividing the casing into a water chamber and a condensate compartment, a cell disposed within the water chamber and exteriorly in contact with the water thereof, a plurality of steam condensation tubes, means forming a relatively large tubular passage, said tubes and tubular passage extending between and opening through said separating plate and a lower wall of said cell, the walls of said tubes and tubular passage being exteriorly in contact with the water of the water chamber, and a steam inlet pipe extending through the cas-



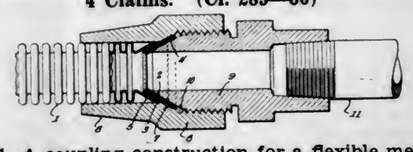
ing into the tubular passage and having a flaring inner end at the inlet portion of said tubular passage for delivering the steam to be condensed into said tubular passage and towards the said cell and against the upper surface thereof to be cooled and in part condensed and thence passed through said condensation tubes into the condensate compartment, there being a space between the walls of said passage and the inner end of said pipe to allow for recirculation of uncondensed steam from said condensate compartment.

2,158,618
TRICYCLE
Alfons Dobrowolski, Racine, Wis.
Application December 22, 1937, Serial No. 181,113
2 Claims. (Cl. 280—202)



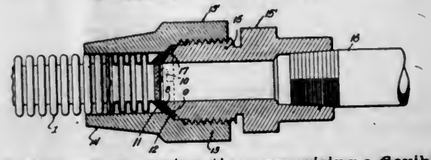
1. In a tricycle having a steering head and a rear axle provided near its respective ends with depending forwardly projecting channel-shaped coupling members having open-ended slots at the front ends of their vertical walls, the combination therewith of a connecting frame composed of a pair of tubular frame bars, welded together at their front ends, downwardly divergent in their middle portions and extended horizontally along parallel lines in their rear end portions, said rear end portions having flattened extremities adapted to fit the channels of the coupling members, a tie rod connecting said flattened extremities and engageable in the open ended slots of the coupling members, latches pivoted to the coupling members and adapted to engage the tie rod to secure the frame members in said channels and the tie rod in said slots, and a reversible seat mounted upon the rear axle and provided with a foot rest receivable between the horizontal frame bar members when the seat is in a forwardly facing position.

2,158,619
COUPLING CONSTRUCTION
Joseph Peter Eastman, Manitowoc, Wis.
Application May 21, 1937, Serial No. 143,874
4 Claims. (Cl. 285—86)



1. A coupling construction for a flexible metal hose having bellows-like inwardly and outwardly directed folds, said coupling construction comprising a tubular coupling member surrounding the end of said hose, said hose having an outwardly flared end forming a seat portion, an annular reenforcing member conforming to the outer surface of said seat portion, spring means for preventing shifting of said annular reenforcing member with reference to said hose, and a second coupling member screw-connected with said tubular coupling member and having an end seating upon the seat portion of said flexible metal hose.

2,158,620
COUPLING
Joseph Peter Eastman, Manitowoc, Wis.
Application May 21, 1937, Serial No. 143,899
4 Claims. (Cl. 285—86)

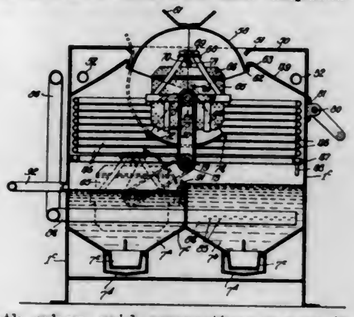


1. A coupling construction comprising a flexible metal hose having a series of annular bellows-like outwardly and inwardly projecting folds, said hose having the outermost of said folds shaped to provide a smooth surface seat portion, a tubular coupling member encircling the end of said hose and having an annular internal shoulder supporting said seat, an annular reenforcing member surrounding said hose adjacent the end thereof and reenforcing said seat portion, said annular reenforcing member being formed of a plurality of portions, means for holding said portions together independently of said tubular coupling member, and a second coupling member screwed into said tubular coupling member and having an end seating upon said seat.

2,158,621
DEGREASING MACHINE
Georg Edhofer and Georg Wolff, Munich, Germany, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemischer Industrie, G. m. b. H., Munich, Bavaria, Germany
Original application July 29, 1933, Serial No. 682,823. Divided and this application March 15, 1937, Serial No. 130,853. In Germany February 1, 1933
7 Claims. (Cl. 202—168)

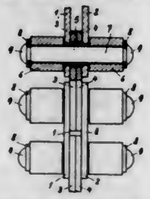
1. In apparatus of the character described, an

open top casing for containing in its lower portion a solvent, covers for the top of the casing, means for supporting within the casing articles to be cleaned, means operable exteriorly of the casing for moving said supporting means from the upper portion of the casing to the lower portion thereof and returning the supporting means to the upper portion of said casing when the covers are closed, said casing comprising suction hoods including plates projecting inward adjacent the top of said casing into proximity to said covers, a plate carried by said supporting means movable therewith and disposed there-



beneath when said supporting means is in its upper position, said covers forming with said casing and said plates thereof an enclosure over and about said supporting means, when the latter is in its upper position and said covers are closed, said covers when in open position forming with said plates and the plate carried by said supporting means an open top enclosure extending beneath and about said supporting means and substantially closed to the lower portion of said casing, when said supporting means is in its upper position, and means for drawing off solvent vapors from said suction hoods.

2,158,622
DRIVING CHAIN
Bruno v. Festenberg-Pakisch, Hamburg, Germany
Application January 11, 1938, Serial No. 184,387
In Great Britain April 6, 1937
6 Claims. (Cl. 74—251)



1. A driving chain for driving or driven sprockets comprising links, eyes in said links, pins passing through said links and projecting on both sides of said links, means on said projecting parts of said pins being adapted to engage said sprockets, the ends of said pins having reduced diameter, washers attached on said reduced parts of said pins forming abutments for said means on said projecting parts of said pins and a sleeve on each pin being engaged with play by said eyes of said links.

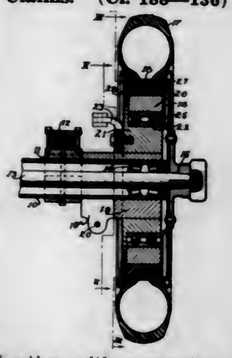
2,158,623
CONVERTIBLE RIFLE RACK
Kathleen Fischbacher, Hoboken, N. J.
Application December 17, 1937, Serial No. 180,280
6 Claims. (Cl. 312—6)

4. In a convertible and portable rifle rack of the character described, the combination of a pair of hingedly connected base members, a centrally disposed supporting member which comprises a



plurality of telescoping tubes provided with a forked locking and attaching member to lock and unlock said supporting member to and from said base members.

2,158,624
BRAKE
Charles E. Gregory, Chicago, Ill.
Application May 15, 1937, Serial No. 142,728
2 Claims. (Cl. 188—136)

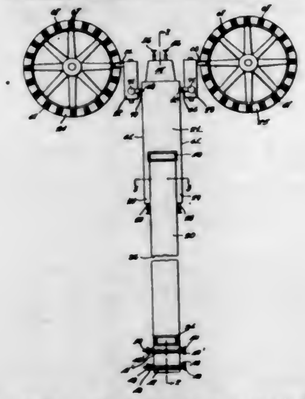


1. In combination with a member constrained to rotate about a fixed axis, an eccentric member fixed relative to said axis, a movable eccentric member embracing said fixed eccentric member, said eccentric members being so proportioned that in one relative position the perimeter of the movable member is concentric with the fixed axis, means for shifting said movable eccentric member away from said relative position to produce eccentricity in the perimeter thereof, a rigid ring journaled on said movable eccentric, and resilient means disposed between said rigid ring and the rim whereby said resilient means will have internal work done thereon by the eccentricity of the perimeter of the movable member when so shifted from its position of concentricity.

2,158,625
COPPER REFINING APPARATUS
Russell Pearce Heuer, Bryn Mawr, Pa., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
Application June 26, 1937, Serial No. 150,427
6 Claims. (Cl. 22—57)

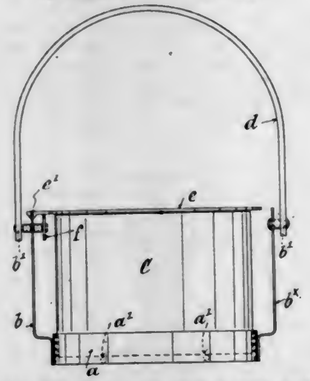
1. In apparatus for producing copper castings,

a melting furnace containing molten copper of approximately "tough-pitch" grade, a deoxidizing vessel receiving copper directly from the melting furnace, an oxygen-free copper casting plant for the deoxidizing vessel including molds and a casting shield surrounding the pouring



stream from the deoxidizing vessel to a mold which is in pouring position, a pouring ladle receiving molten copper from the melting furnace independently of the deoxidizing vessel and a "tough-pitch" copper casting plant for the pouring ladle.

2,158,626
STAND OR HOLDER FOR A PRESERVE DISH OR JAR OR LIKE CONTAINER FOR TABLE USE
Louis Saul Jeffay, Chorlton-on-Medlock, Manchester, England
Application September 27, 1938, Serial No. 231,856
In Great Britain October 9, 1937
3 Claims. (Cl. 65—60)

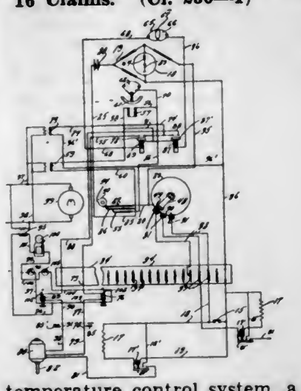


2. A stand for preserve dishes and jars and like containers for table use, comprising in combination a base structure for a container, two upright supports fixed thereto having their upper portions offset outwardly, a hinged lid mounted on the top of one such upright support and arranged to rest normally upon the top of said container to cover same, a pivoted handle mounted near the tops of said upright supports so as to move in a direction at right angles to that in which the hinged lid moves, and a double cam device operated by said pivoted handle and arranged to act upon the hinged lid adjacent the hinge and to raise said lid automatically when said handle is turned down on either side about its pivot.

2,158,627
TREATMENT OF HIDES, SKINS, AND LEATHER
Wolf Kritchevsky, Chicago, Ill., assignor to Ninol, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application March 25, 1938, Serial No. 198,029
22 Claims. (Cl. 149—5)

1. The method of treating a material selected from the group consisting of untanned and at least partially tanned hide substance which comprises contacting it with a compound in the form of an ether of an aliphatic polyhydric alcohol, said compound containing at least six carbon atoms, whereby said hide substance is caused to absorb at least several percent of said compound.

2,158,628
TEMPERATURE REGULATION
Carl H. Kuhlman, Toledo, Ohio, assignor to The American Temperature Indicating Company, Toledo, Ohio, a corporation of Ohio
Application May 3, 1937, Serial No. 140,471
16 Claims. (Cl. 236—1)

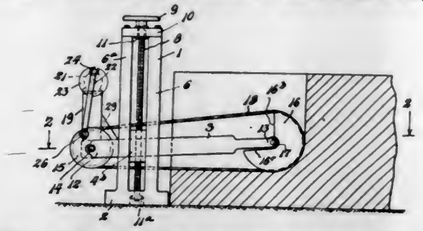


3. In a temperature control system, a central station, remote stations including temperature change-responsive means and temperature control-affecting means, electric circuit connections for said means between the respective stations and the central station, said central station including a selector for the remote station change-responsive means, said selector embodying an annular series of complete independent switches each normally in switch open position and operable to be closed by said selector, a device adapted to be cut in by the selector switch, an additional switch spaced from the selector operated switch, and an actuator for the selector effective through said additional switch for thereby placing a selected remote station change-responsive means and control-affecting means in series with the device.

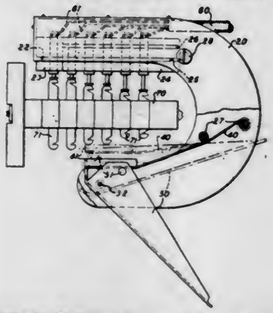
2,158,629
CUTTING MACHINE FOR STONE OR OTHER MATERIAL
Charles B. Lansing, Gates Mills, Ohio
Application February 23, 1938, Serial No. 192,089
4 Claims. (Cl. 125—21)

1. A stone cutting machine of the class described, comprising, in combination, a carrier having a main portion and a bifurcated portion

at an end thereof, a carrier wheel mounted between the furcations of said bifurcated portion, said bifurcated portion being of a width no greater than the main portion of said carrier, said wheel having a narrower central portion extending between the furcations of said bifurcated portion, and a cutting member supported by said carrier wheel, said cutting member being of a width no less than said carrier wheel, whereby said main portion of said carrier, and said carrier wheel may pass through the cut portion of the material being operated upon as the cutting operation progresses.



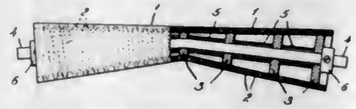
2,158,630
TESTING APPARATUS
Stanley M. Lloyd, West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 7, 1937, Serial No. 135,424
7 Claims. (Cl. 173—324)



1. A contact fixture for making individual contact with each of a plurality of terminals arranged in fixed orderly array, the said fixture comprising a body having a recess therein, a plurality of supporting members mounted in the body at one side of the recess, means to mount one of the supporting members in the body in either of two positions to extend more or less deeply into the recess, an orderly array of contact members mounted in the plurality of supporting members and extending into the recess, and means on the opposite side of the recess to clamp an array of terminals between the array of contact members and the said clamping means, each terminal being then in contact with one and only one contact member.

2,158,631
ROLLER CASING FOR TEXTILE STRETCHING APPARATUS
Hans Willi Mettler, Geneva, Switzerland
Application January 27, 1938, Serial No. 187,146
In Switzerland February 1, 1937
4 Claims. (Cl. 26—63)

1. A flexible roller casing for textile stretching apparatus formed of rubber having a staying or reinforcing helical metal band which is rectangular in cross-section and vulcanized inside the wall of the rubber casing.



2,158,632
TEXTILE STRETCHING APPARATUS
Hans Willi Mettler, Geneva, Switzerland
Application January 27, 1938, Serial No. 187,147
In Switzerland February 1, 1937
5 Claims. (Cl. 26—63)



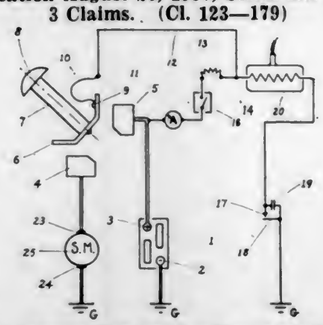
5. Apparatus for the stretching of textile fabric or the like which comprises in combination a fixed bent shaft, means for supporting a roller casing comprising a plurality of spaced disks rotatably mounted at their centers on the shaft, said disks progressively increasing in diameter, the disk mounted near the center of the shaft having the smallest diameter and the disks mounted at the ends of the shaft the greatest diameter, and a unitary elastic roller casing the diameter of which increases from its center in the direction of its ends mounted over and supported by the disks, said shaft, disks and casing being so formed and arranged that upon rotation of the roller casing the exterior surface of the casing assumes a changing form and expands and contracts uniformly throughout its length.

2,158,633
METHOD OF DISPLAYING FIGURES AND THE LIKE ON TRANSPARENT BODIES
Anthony L. Normandi, San Francisco, and Gemma Blanche Traversi, Petaluma, Calif.
Application November 1, 1937, Serial No. 172,244
1 Claim. (Cl. 41—22)



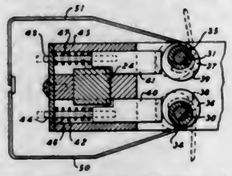
A method of decorating a transparent glass tumbler or the like with a human figure to realize a dual appearance of said figure and consisting in first applying and then baking a nude figure on a surface of the glass and thereafter painting over the nude figure with suitable adornments of various colors to simulate clothing, whereby the figure appears semi-nude when viewed from one side of the tumbler and fully clothed when viewed from the other side.

2,158,634
AUTOMOTIVE IGNITION BOOSTER SYSTEM WITH AUTOMATIC STARTING CONTROL
Edward A. McMurtry, Chicago, Ill.
Application August 20, 1937, Serial No. 160,020
3 Claims. (Cl. 123—179)



1. In combination, an ignition system for internal combustion engines including a high tension coil, a storage battery, a current limiting resistor connected in the primary circuit of said system between said coil and said battery, an electric self starting mechanism adapted to be energized by said battery, said mechanism including a starting switch comprising stationary contacts and a bridging contact member, and an electrical conductor forming a connection between said bridging contact member and the battery terminal of said coil.

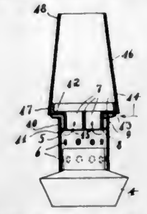
2,158,635
SAFETY ARRANGEMENT
Frank D. Oesterle, West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 8, 1938, Serial No. 184,086
6 Claims. (Cl. 192—133)



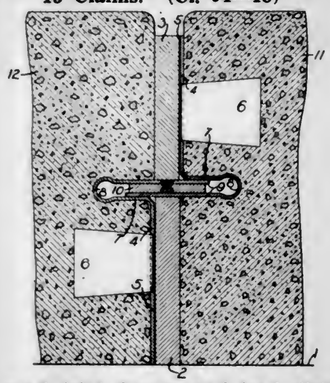
1. In a machine tool having a reciprocable material working element, safety means including a safety housing normally enclosing the element and comprising a wall section movable to open the housing, a member reciprocable to lock the element against reciprocation, means actuated by the wall section when pivoted to open the housing to reciprocate the member to lock the element, and resilient means to return the member from its element locking position to an element unlocked position when the wall section is pivoted to close the housing.

2,158,636
ORCHARD HEATER
Richard G. Pheysey, Ontario, Calif.
Application February 17, 1937, Serial No. 126,210
4 Claims. (Cl. 158—91)

1. In an orchard heater, a sectional chimney comprising lower and upper portions, and a grate interposed between the two portions and having parts spaced above the top end and from the inner wall of the lower chimney-portion in such a manner that air is caused to enter and pass radially inwardly and continuing in a downwardly direction and opposite to the normally upwardly passing products of combustion in such chimney portion so as to be preheated thereby preparatory to mixing with such upwardly passing products before entering the upper chimney portion.



2,158,637
ROAD JOINT
Robert R. Robertson, Chicago, Ill., assignor to The Translode Joint Company, Chicago Heights, Ill., a corporation of Illinois
Application April 23, 1937, Serial No. 138,542
13 Claims. (Cl. 94—18)

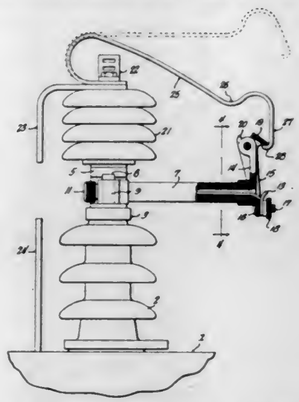


1. A road joint former and load distributor, comprising a pair of identically constructed joint units with one of said units reversed and inverted with respect to the other and positioned to interfit with one end of the other, each of said joint units having a plate forming a part of the interfitting end thereof projecting through the plane of the joint into a portion of the other joint unit, and a reinforcing plate disposed between the plates of said interfitting joint units, and rigidly secured to one of said plates and in frictional slidable contact with the other of said plates.

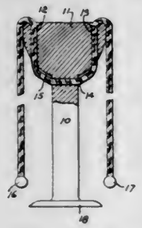
2,158,638
FUSE CONSTRUCTION
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application July 23, 1937, Serial No. 155,205
19 Claims. (Cl. 200—114)

19. In a fuse construction a pair of spaced terminals, a fuse assembly supported from one of said terminals and projecting outwardly and including a fuse tube and a fuse link and latching mechanism normally restrained by said fuse link, and a switch arm electrically connected to the other of said terminals and having a free end normally held in switch closed position by

said latching mechanism and engaging said latching mechanism, said switch arm being biased towards switch open position away from said latching mechanism, said switch arm having means for the reception of a switch stick, whereby upon refusing said switch arm may be pulled by the switch stick into latching engagement with said latching mechanism.



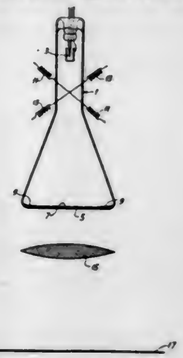
2,158,639
TOY
Edward Spritzer, Bronx, N. Y.
Application July 31, 1937, Serial No. 156,636
3 Claims. (Cl. 46—51)



1. A toy of the class described comprising a handle member, an enlarged head formed at one end of the handle member, two spaced holes drilled in the head parallel with the axis of the toy and on opposite sides of and outside the handle, a transverse hole drilled through the handle member near the head, and a rope threaded through said holes in such a manner that the ends of the rope will extend outside of the said head.

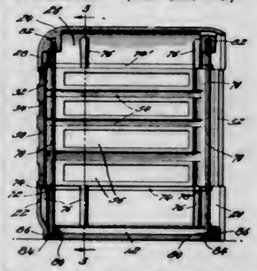
2,158,640
ELECTRON DISCHARGE DEVICE
John William Strange, Acton, London, and William Horace Connell, Hillingdon, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application July 31, 1937, Serial No. 156,610
In Great Britain August 1, 1936
3 Claims. (Cl. 250—164)

1. A luminescent screen comprising a support member, a layer of luminescent material of predetermined thickness area and boundary deposited upon the support member, and a layer of opaque material of a thickness substantially equal to the predetermined thickness of luminescent material deposited upon the support member



contiguously with the predetermined boundary of the luminescent material.

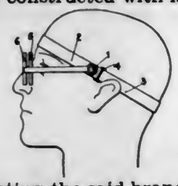
2,158,641
KNOCK-DOWN CABINET ASSEMBLY
Knut E. Birger Stenberg, Attleboro, Mass., assignor to Associated Attleboro Manufacturers, Inc., Attleboro, Mass., a corporation of Massachusetts
Application January 28, 1938, Serial No. 187,377
6 Claims. (Cl. 312—7)



1. A knockdown radio cabinet assembly comprising, a base panel having vertically upturned front and end walls having spline receiving groove means in the top edges thereof, a cover panel having vertically downturned front and end walls having cooperating spline receiving groove means in the bottom edges thereof, intermediate detachable end panels having extensions extending a distance around the front of the cabinet providing a central dial hole on the front of the cabinet having bottom and top edges adapted to respectively abut the top and bottom edges of said base and cover panels and having splines extending substantially the length of said top and bottom edges thereof contained within said groove means and vertically projecting means at substantially each corner of the cabinet securing the cover panel to said base panel with said end panels clamped between them.

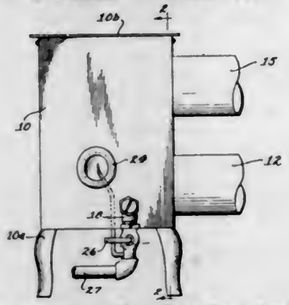
2,158,642
APPARATUS FOR CORRECTING THE DEFECTS OF ACCOMMODATION OF THE EYE
Eugène Henri Tartrais, Montmorency, France
Application September 2, 1936, Serial No. 99,048
In France September 6, 1935
6 Claims. (Cl. 88—51)

1. In an apparatus for correcting the defects of accommodation of the eye, in combination: a support made to adapt itself on the user's head and to fit onto the temporal regions of the latter, at least two pairs of spectacles the numbers of the glasses of which, in diopters, are different and which are constructed with lateral arms, and



means for pivoting the said branches of the spectacles on the temporal regions of the said support in such a manner that the said spectacles can be separately or simultaneously brought in front of the user's eyes by swinging said spectacles about the said pivoting means.

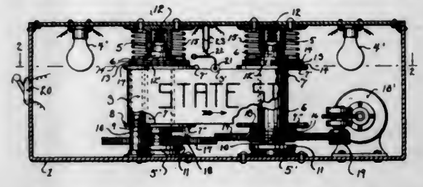
2,158,643
GAS SAFETY HEATER
Rudolph Wacek, Chicago, Ill.
Application March 19, 1938, Serial No. 196,913
4 Claims. (Cl. 126—90)



1. In a heater of the class described, a metal casing having substantially vertical walls; an airtight combustion chamber mounted within said casing and spaced apart from the walls thereof; a plurality of vertically extending heat-conducting elements secured on the outside of said combustion chamber and forming vertically extending air circulating passageways; a fuel burner mounted in said combustion chamber; conduit means communicating with the lower portion of said combustion chamber and adapted to be connected to the outside atmosphere; a side outlet conduit communicating with the upper part of said combustion chamber and adapted to be connected with an exhaust flue; heat-conducting elements in said combustion chamber; and manually adjustable valve means mounted in said combustion chamber for controlling the volume of fuel introduced to said burner, an adjustable air deflecting plate adjacent the inlet conduit for deflecting air to the bottom of said chamber, and a damper valve in said air inlet conduit controlling the volume of air introduced into said combustion chamber.

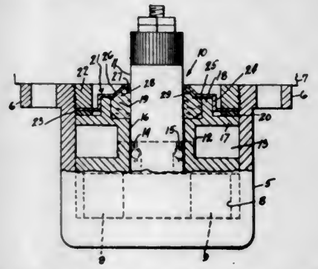
2,158,644
STREET INDICATOR
Langley C. Ward, Racine, Wis.
Application April 20, 1938, Serial No. 203,213
2 Claims. (Cl. 40—53)

1. A changeable exhibitor comprising a pair of rotatable shafts having oppositely threaded ends, tape-carrying reels slidably mounted upon the shafts, constantly meshing gears mounted on the shafts in threaded union with the threaded ends of the shafts and movable toward and away from the reels according to the direction of rotation thereof, a motor having a drive gear



constantly meshing with one of the first-mentioned gears, and friction mechanism mounted upon the shafts and interposed between the first-mentioned gears and the reels, whereby the reels are alternately engaged and rotated in opposite directions incidental to reverse movement of one of the first-mentioned gears.

2,158,645
SHOCK ABSORBER PACKING AND SEALING STRUCTURE
Louis E. Willard, New York, N. Y., assignor to Charles Zimmer, Brooklyn, N. Y.
Application September 7, 1938, Serial No. 228,765
5 Claims. (Cl. 188—89)

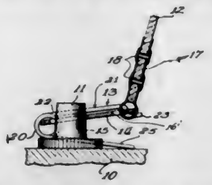


1. In a fluid shock absorber having a casing which provides a working chamber for an oscillatory piston and also provided with a reservoir casing above the working chamber through which the piston extends, the said reservoir being in engagement with the inner diameter of the shock absorber casing and chamber and having a centrally located stuffing box, a resilient packing of relatively large mass in the said stuffing box surrounding the said piston, a gasket concentric with the resilient packing for sealing the outer periphery of the reservoir casing at its juncture with the shock absorber casing, a readily removable cover overlying the central packing and concentric gasket, a wall on the cover encircling the outer diameter of the stuffing box and means for pressing the said cover against the said packing and gasket to form a removably maintained double seal for the shock absorber.

2,158,646
BATTERY CARRIER
Joseph A. Wiora, Chicago, Ill.
Application March 3, 1938, Serial No. 193,693
4 Claims. (Cl. 294—92)

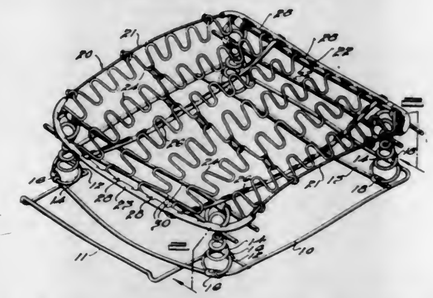
1. A battery carrier comprising a pair of gripping members having openings adapted to receive the terminals of a battery, which members are

adapted to grip the terminals when canted from horizontal position, and means adapted resilient-



ly to engage the battery and cant the members into gripping relation with the terminals.

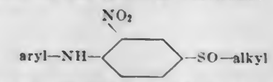
2,158,647
SPRING SEAT CONSTRUCTION
Harold F. Wolfe, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application November 26, 1937, Serial No. 176,446
4 Claims. (Cl. 155—179)



1. A spring cushion construction comprising a base frame, a border frame disposed above and in spaced relation to said base frame, spring elements connected to said border frame forming a spring load supporting surface, spiral springs interposed between said base frame and said border frame adjacent the corners thereof, means connecting said spiral springs to said base frame, and members disposed inwardly of opposite sides of said border frame located below and out of engagement with said spring elements connecting said spiral springs to said border frame.

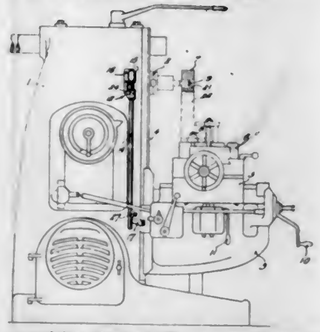
2,158,648
NITRO DERIVATIVES OF PARA ALKYL SULPHOXIDES OF DIPHENYLAMINES
Werner Zerweck and Heinrich Ritter, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 14, 1938, Serial No. 219,204. In Germany July 27, 1937
3 Claims. (Cl. 260—576)

1. The condensation products of the diphenylamine series of the general formula:



wherein aryl means a radicle of the benzene series and alkyl stands for a low alkyl radicle, which condensation products are useful for dyeing lacquers and acetate silk, whereby bright yellow shades of very good fastness properties are obtained.

2,158,649
PRECISION APPARATUS FOR MACHINE TOOLS
Joseph B. Armitage, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application September 10, 1936, Serial No. 100,155
16 Claims. (Cl. 33—181)



1. The combination with a machine tool including a stationary member and a movable member, said movable member being slidably mounted on said stationary member, of measuring apparatus for indicating relative positions of said members, comprising a bracket carried by said stationary member, a dial indicator mounted on said bracket, an abutment carried by said movable member, and a tubular container for measuring rods detachably secured to said bracket in position to interpose measuring rods contained therein in axial alignment between said abutment and said dial indicator, said tubular container being removable therefrom with its contained measuring rods as a unit, whereby the column of measuring rods therein may conveniently be rearranged to establish a desired total length thereof for interposition between said dial indicator and said abutment.

2,158,650
MANUFACTURE OF OXIDATION PRODUCTS OF PARAFFIN HYDROCARBONS
Christoph Beck and Franz Kremp, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application January 16, 1937, Serial No. 120,910. In Germany January 30, 1936
5 Claims. (Cl. 260—451)

1. The process for the production of oxidation products from high-molecular paraffin hydrocarbons, which comprises treating viscous, tar-like mixtures containing high-molecular paraffin hydrocarbons with an aromatic nitro solvent containing at most 2 nitro groups, separating the purified paraffin hydrocarbon precipitated and oxidizing it by means of a nitrogenous oxidizing agent in which the nitrogen compound is the oxidizing factor.

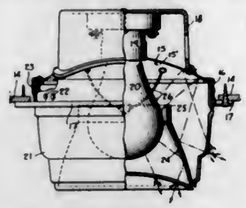
2,158,651
STEEL
Frederick M. Becket, New York, and Russell Franks, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application June 24, 1936, Serial No. 87,006
7 Claims. (Cl. 75—123)

1. Low alloyed steel containing carbon in an amount not exceeding 0.6%; manganese in an amount not exceeding 2%; silicon in an amount not exceeding 1%; a substantial amount of at least one carbide forming metal of the group consisting of chromium and molybdenum, the chromium being less than 2% and the molybdenum not exceeding 1%; 0.02% to 0.5% columbium which imparts to said steel a fine-grained structure which persists at all temperatures up to and somewhat above the critical range, increased ductility, increased impact strength at normal and subzero temperatures, improved hot and cold workability, and increased resistance to hot and cold oxidation, but does not impart substantial age hardening properties; and the remainder iron.

2,158,652
STEEL
Frederick M. Becket, New York, and Russell Franks, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application December 21, 1938, Serial No. 246,995
3 Claims. (Cl. 75—123)

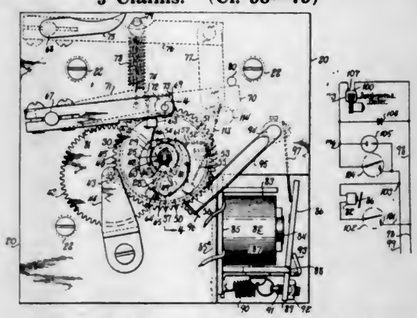
1. Steel containing carbon in an amount not exceeding 1%, manganese in an amount not exceeding 2%, silicon in an amount not exceeding 1%, 0.05% to 5% nickel, and 0.02% to 0.5% columbium, remainder iron; the columbium acting to impart to said steel a fine-grained structure which persists at all temperatures up to and somewhat above the critical range.

2,158,653
PASSENGER VEHICLE LIGHTING
Leroy C. Doane, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application July 8, 1936, Serial No. 89,536
12 Claims. (Cl. 240—7.35)



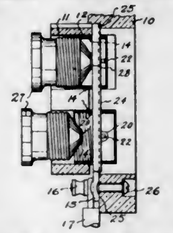
1. A lighting unit adapted to be supported by a vehicle ceiling over a row of seats and comprising a light source, an upwardly-opening, downwardly-removable ceiling-carried, one piece shade, a light concentrating reflector within the shade to intercept a wide vertical angle of light and screen the source against observation except from underneath and to project a concentrated beam of light downwardly through the bottom of the shade, the bottom of the shade being slightly diffusing to obscure the source and reflector from observation by persons in the seats without substantial interference with the direction of emission of the direct and reflected light, the reflected beam having a spread to include the width of the seats in the row, the side walls of the shade being spaced from the reflector and sufficiently diffusing to obscure the reflector, the reflector being supported from the shade bottom and open at the top to allow upward escape of light, and a supplemental reflector for directing such upwardly escaping light down between the first reflector and side walls of the shade for diffusion by the shade to illuminate the ceiling and upper side walls of the vehicle.

2,158,654
INTERVAL TIMER
Leonard P. Dorsett, Bethlehem, Pa., assignor to The Standard Electric Time Company, Springfield, Mass., a corporation of Connecticut
Application December 3, 1935, Serial No. 52,647
3 Claims. (Cl. 58—75)



1. An interval-timer comprising: a synchronous alternating-current motor; a first pointer having a drive connection with said motor; a second pointer having a yieldable connection with said first pointer to normally travel in unison therewith; first control-means including a current-rectifier and a first electric-switch in multiple in the circuit of said motor, said first switch adapted to be closed to cause said first and second pointers to travel in unison, and adapted to be opened to cause direct current only to reach said motor through said rectifier and stop said motor and thus stop the travel of said first and second pointers; second control-means including locking-means for said second pointer and a second electric-switch for said locking-means, said second switch adapted to be closed to stop the travel of said second pointer while said first pointer continues to travel, and adapted to be opened to permit said yieldable connection to cause said second pointer to catch up and travel in unison with said first pointer.

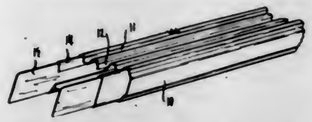
2,158,655
FUSE BLOCK AND PARTS THEREOF
Harrison J. L. Frank, Detroit, Mich.
Application February 3, 1938, Serial No. 188,501
12 Claims. (Cl. 200—133)



1. A block having a socket, a screw shell therein, a bus bar passing through a hole in a side of the shell and insulated from the shell, a conductor passing through another hole in the shell and passing transversely under and insulated from the bus bar, whereby a tip and sleeve contact device threaded into the shell will have its

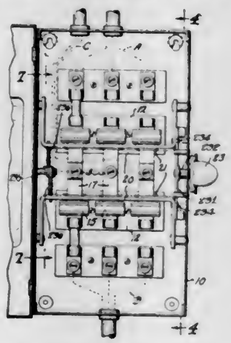
tip engage the bus bar and cause relative movement of the bus bar, the shell, and the conductor with the conductor engaging and making electrical contact with the shell and kept out of electrical contact with the bus bar.

2,158,656
METHOD FOR MAKING BUS DUCTS
William H. Frank, Detroit, Mich.
Application December 23, 1935, Serial No. 55,728
5 Claims. (Cl. 153—1)



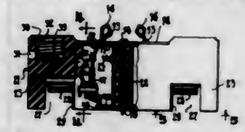
1. A method of making slotted tubular beaded duct containing inserts of considerably less cross sectional area than the interior of the duct, comprising longitudinally beading flat duct ribbon, laying two insert ribbons against the beaded duct ribbon with an edge of each insert ribbon against the duct ribbon and in a bead thereof, thereafter closing in the duct ribbon around the insert ribbons and into engagement with the hitherto free edges of the ribbons, with the aforesaid free edges being received in beads of the duct ribbon, to form a slotted tubular duct and so that all four edges of the insert ribbons are against facing walls of the duct and in beads thereof.

2,158,657
SWITCHING APPARATUS
William H. Frank, Lawrence E. Fisher, and Joseph A. Messing, Detroit, Mich.
Application September 14, 1936, Serial No. 100,771
2 Claims. (Cl. 200—50)



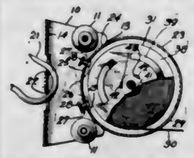
1. In a switch, a box, an operating bail traversing the sides of the box and journalled therein, and parallel to the back thereof, and a unitary contact set comprising a base, a prong secured to the base and projecting forwardly from it, a housing of insulation having a cell provided with an open end in which is disposed the forward free end of the prong, the housing containing a prong engaging contact, and means on the housing for detachably interlocking it to the bail, the means and the bail being so constructed and arranged that they can be associated for interlocking the housing and the bail by movement of the housing towards the bail in a single direction parallel to the box back, and means for securing the base to the box back.

2,158,658
DISTRIBUTION PANEL
William H. Frank, Joseph A. Messing, and Clarence T. Hollingsworth, Detroit, Mich.
Application April 15, 1935, Serial No. 16,330
11 Claims. (Cl. 175—371)



1. A switch unit comprising a block of molded insulation having large cavities open to the front of the unit, stationary switch contacts on interior walls of the cavities, and a unitary mask and switch assembly mountable thereon and removable therefrom from the front thereof and as a unit, and comprising a large area masking plate in front of the unit and closing the cavities, and switches fixedly mounted on and carried by and behind the plate and disposed in the cavities and having handles projecting through openings in the plate and manipulable to cause movable contacts of the switches to engage the stationary contacts, and means in the nature of a screw or the like accessible from in front of the plate for mounting the plate on and in front of the unit, the screw passing through a portion of the unit forming a barrier between the cavities and threading into a wall part behind the unit whereby the unit is clamped and mounted by and between its front plate and the wall part.

2,158,659
PROTECTOR FOR CLOTHESLINES
Erling J. Holman, Brooklyn, N. Y.
Application April 22, 1936, Serial No. 75,847
3 Claims. (Cl. 242—55.2)

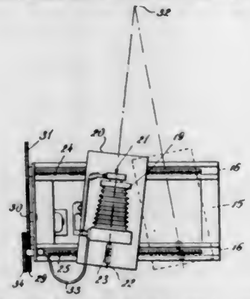


3. A protector for clothes lines comprising a container having an axle therein, in combination with a reel and a spool of paper having a core with longitudinal grooves the length thereof, said reel having opposed discs at opposite ends of the core and one of said discs having fingers projecting therefrom substantially parallel to said core and positioned within the said grooves thereof for interlocking the said disc to rotate with the spool, and the other said disc having openings for receiving ends of said fingers for rotatably interlocking that disc with the spool, and braking means between both discs and container thereby effective to also brake the spool.

2,158,660
STEREOSCOPIC PHOTOGRAPHY
Clarence W. Kanolt, Pelham Manor, N. Y.
Application June 15, 1936, Serial No. 85,285
14 Claims. (Cl. 95—36)

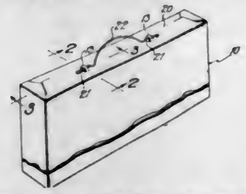
1. Apparatus for taking stereoscopically related views of an object field from different points of view which comprises a camera adapted to record images of the parallax panoramagram type, a support for said camera adapted to carry the camera as a unit, a base having a pair of parallel straight fixed guide ways side by side there-

on, a guide element pivoted to said support and adapted to move in guided relationship along one of said ways, a second guide element associated with said support and axially separated from the first-mentioned element with respect to the taking direction of the camera, said second guide element slidably engaging said support for axial but not lateral movement with respect to the support, and means for moving said support



and guide elements along said base with the guide elements simultaneously moving at substantially constant but different speeds along their respective ways, the ratio between the movements of the guide elements along their respective guide ways being thereby maintained substantially constant so that said camera is moved laterally along the base and simultaneously rotated so as to be maintained pointed at a desired point in the object field.

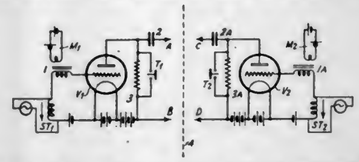
2,158,661
CARRIER AND FASTENER MEANS
Chase Kehrer, Woodbridge, N. J.
Application May 28, 1935, Serial No. 23,855
5 Claims. (Cl. 229—52)



1. In a paper box having two separable telescoping box sections, the outer of said box sections having a pair of spaced openings therein, a pair of eye members fixedly secured to the inner of said box sections and extending outwardly through the respective openings, a bail-shaped handle member provided with angular ends, said angular ends each being formed with a pair of resilient humps, the angular ends extending through the projecting portions of said eyes with the adjacent humps of each angular end disposed on opposite sides of the respective eyes.

2,158,662
SECRET TELEPHONY
Paul Kotowski and Kurt Dannehl, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 13, 1936, Serial No. 85,006
In Germany June 17, 1935
6 Claims. (Cl. 250—6)

1. A radio transmission system including a transmitter and a receiver, said transmitter having means for adding a disturbance potential to the speech potential so as to maintain secrecy of said speech, said means comprising a disturbance generator whose potential is superimposed upon said speech voltage by a microphone transformer which is connected to a grid of an electron discharge device, the plate circuit of said electron

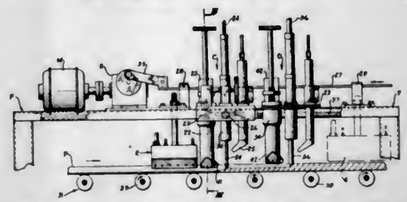


discharge device having its output circuit coupled by a series condenser, a shunted resistance and a translating device, said receiver having its input circuit elements arranged symmetrically and identical in number with respect to said transmitter.

2,158,663
PROCESS FOR MANUFACTURING SOAP
Carl Leyst-Küchenmeister, Schlachtensee, near Berlin, Germany
No Drawing. Application November 7, 1934, Serial No. 751,882. In Germany September 24, 1934
4 Claims. (Cl. 87—16)

1. A process of manufacturing soap which consists in saponifying a fatty material in liquid state with waste sulphite lye derived from cellulose industries together with freshly prepared caustic soda lye.

2,158,664
WELDING PROCESS AND APPARATUS
Arthur R. Lytle and William Morton, Niagara Falls, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application April 23, 1935, Serial No. 17,838
16 Claims. (Cl. 113—59)



1. A process of welding together contiguous surfaces of relatively thick steel plates with a weld having substantially uniform grain structure, which comprises depositing a plurality of layers of weld metal in superposed relation between said surfaces during a single pass of a gas welding means and said surfaces relatively to one another lengthwise of said surfaces, each consecutive layer being deposited after the last prior deposited layer has solidified but before it has cooled below the critical temperature.

2,158,665
ELECTRON DISCHARGE DEVICE
George Dean O'Neill, Beverly, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application June 30, 1932, Serial No. 620,157
4 Claims. (Cl. 250—27.5)

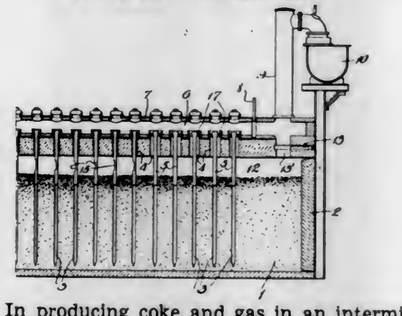
4. In combination, a heater element in the form of a single length of wire doubled upon itself intermediate its free ends with the doubled portion bent back upon itself to form a four-strand bundle, said wire carrying a continuous unitary coating, said coating being of a

first layer of insulating mixture consisting substantially of aluminum oxide and a small per



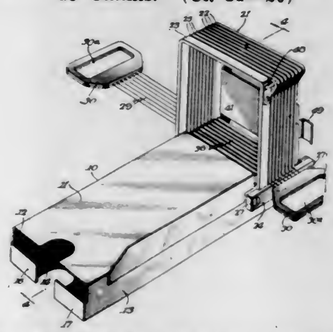
cent of silica and a second layer of a different insulating mixture consisting substantially of Alundum and talc.

2,158,666
CHAMBER OVEN
Carl Otto, Essen, Germany, assignor to Otto-Wilputte Ovenbouw Mi J. (Otto-Wilputte Construction Company) N. V., The Hague, Netherlands, a corporation of the Netherlands
Application November 30, 1934, Serial No. 755,297
In Germany December 7, 1933
12 Claims. (Cl. 202—10)



1. In producing coke and gas in an intermittently operated oven chamber containing a charge of coal with ducts extending into the charge, and a gas collecting space above the charge, the method which consists in drawing gases from said space and from said ducts directly into a common receiving space, while maintaining a gas pressure in said receiving space and in said ducts substantially below atmospheric pressure, and maintaining a pressure in said collecting space approximately equal to atmospheric pressure.

2,158,667
SLICING DEVICE
Arno W. Rieck, Charles F. Chapman, and Kurt Wambach, Chicago, Ill., assignors to Kraft-Phenix Cheese Corporation, Chicago, Ill., a corporation of Delaware
Application October 29, 1936, Serial No. 108,144
15 Claims. (Cl. 31—20)



1. In a slicer of the class described, means for supporting a loaf of material to be sliced, and a flexible cutting wire associated with said supporting means so as to be bodily movable both longitudinally and transversely, said supporting means having a groove therein for receiving said cutting wire for initial disposition transversely of and under a loaf positioned on said supporting means, said cutting wire being movable transversely through the loaf initially by lateral movement of the wire and subsequently by simultaneous lateral and longitudinal movement of the wire.

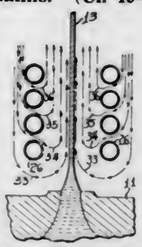
2,158,668
INHIBITED MOTOR OILS
Raphael Rosen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 8, 1936, Serial No. 78,645
10 Claims. (Cl. 87—9)

1. Composition of matter comprising a viscous mineral lubricating oil containing a small proportion of a soluble organic oxidation inhibitor having a boiling point above 200° C. at atmospheric pressure and possessing the structure

$$R-X_n-R'$$

where R and R' are organic groups, X is a negative element of Group VI of the periodic system, and n is an integer from 1 to 4, and a small proportion of a soluble metallo-organic compound of a metal of the class consisting of bismuth, antimony and tin, said metallo-organic compound containing a carbon-metal linkage.

2,158,669
METHOD OF AND APPARATUS FOR DRAWING GLASS
Walter O. Amsler, Toledo, Ohio, assignor to Frazier-Simplex, Inc., Wilmington, Del., a corporation of Delaware
Application May 6, 1935, Serial No. 19,924
3 Claims. (Cl. 49—17)



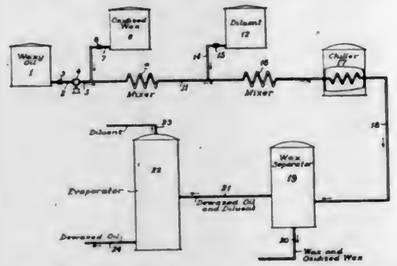
3. Apparatus for drawing sheet glass comprising a source of molten glass, means to draw a sheet vertically therefrom, coolers on each side of the sheet provided with horizontal vertically spaced slots for the passage of gas, and means to create a forced draft having a vertical component between the coolers and the sheet.

2,158,670
PROCESS FOR THE RECOVERY OF ESSENTIAL OILS
Charles Douglas Barnes, Long Beach, and William A. S. Wright, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application February 20, 1937, Serial No. 126,886
5 Claims. (Cl. 87—28)

1. A process for the purification of citrus oil containing resinous impurities which comprises grinding citrus peel in the presence of water and

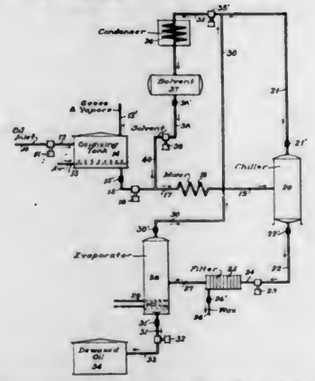
thereby forming a slurry, commingling said slurry with a liquefied normally gaseous hydrocarbon solvent under sufficient pressure to maintain said solvent in a liquid state, settling the mixture of slurry and solvent under pressure and thereby forming a solvent layer containing the citrus oil and a slurry layer, separating said layers, cooling the solvent layer to precipitate resinous material, removing the precipitated resinous material from the solvent layer and removing the solvent from the de-resinated oil.

2,158,671
DEWAXING OIL
Donald E. Carr, Long Beach, and Maner L. Wade, Naples, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application August 26, 1935, Serial No. 37,940
18 Claims. (Cl. 196—18)



1. In the art of dewaxing wax-containing oils involving the separation of wax from oil, the step of preparing the oil for the separation of wax therefrom comprising adding an oxidized wax to said wax-containing oil.

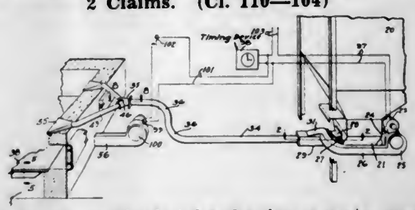
2,158,672
DEWAXING OIL
Donald E. Carr, Long Beach, and Maner L. Wade, Naples, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application December 15, 1936, Serial No. 115,948
8 Claims. (Cl. 196—18)



1. The method of treating wax-containing hydrocarbon oils having a tendency to haze on standing which comprises first subjecting such oil to oxidation at a temperature between 150° and 500° F. for a time only sufficient to oxidize about 1 to 5% of the oil and thereafter dewaxing the oil.

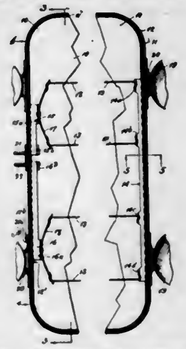
4. A process for separating wax from wax-oil mixtures which comprises subjecting said wax-oil mixture to oxidation with an oxygen containing gas for a time only sufficient to oxidize an amount of said wax-oil mixture equivalent to approximately an amount which would be oxidized by subjecting the said wax-oil mixture to the action of air introduced into the wax-oil mixture at a rate of 6 liters per minute per each 7 liter charge for a period of 22 hours while maintaining the temperature of the wax-oil mixture at approximately 300° F. and thereafter dewaxing the thus oxidized wax-oil mixture.

2,158,673
OVERFEED STOKER
Haskell C. Carter, Portland, Oreg., and Thomas A. Marsh, Chicago, Ill., assignors to Iron Fireman Manufacturing Company, Portland, Oreg.
Application May 6, 1935, Serial No. 20,088
2 Claims. (Cl. 110—104)



2. In an overfeed stoker having a grate, means for discharging fuel and air above the grate, a motor for driving said means, a blower for discharging air beneath the grate, a motor for driving the blower, a circuit including a heat responsive switch for energizing both motors, and time controlled means shunting the thermal switch and the blower motor for causing the fuel feed motor to operate at regular intervals of time for chosen periods to keep the fire alive in absence of calls for heat, whereby combustion air will be delivered below the grate in response to a call for heat but will not be delivered upon a timed feeding to keep the fire alive.

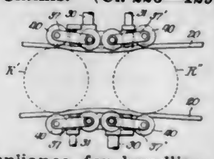
2,158,674
WINDSHIELD HEATER
Joseph H. Cohen, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application November 2, 1936, Serial No. 108,702
2 Claims. (Cl. 20—40.5)



1. In a windshield heater, a structure compris-

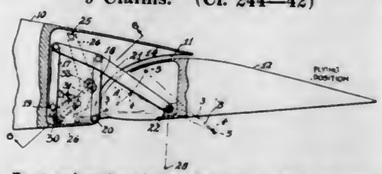
ing a transparent plate and a carrier therefor; a heating means including a resistance wire extended across said plate and supported by said structure, said carrier being in the form of an enclosing frame for the plate formed of a plurality of internested separate inner and outer longitudinally bendable strips and by reason of such bendability wrapped around the periphery of the plate; and means for connecting the opposite ends of one of said strips to close the frame, said means including a frame extension adapted to carry a suction cup, said extension arranged to overlap the meeting portions of said frame and being in hooked engagement with the frame.

2,158,675
PACKAGING APPARATUS
Lynn E. Davies, Park Ridge, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application July 20, 1938, Serial No. 220,238
16 Claims. (Cl. 226—129)



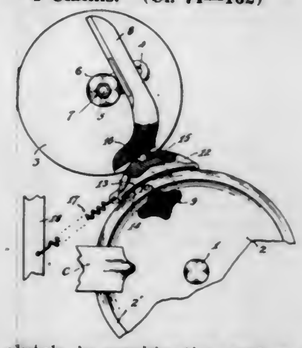
1. In an appliance for handling packing receptacles which has means for conveying receptacles progressively in a series, holding belts arranged to run along opposite sides of the path of the receptacles and means for driving said belts, apparatus for controlling the direction of the belts' travel comprising a plurality of sheaves arranged in series in oppositely disposed groups and engaging the belts at their outer sides and guiding them, the respective groups of sheaves being adjustable as a unit inwardly and outwardly relative to the paths of the receptacles, and certain of the sheaves being individually adjustable inwardly and outwardly relative to the others in their groups by pressure applied to the belts, and yielding pressure means urging the respective groups and the respective individually adjustable sheaves inwardly toward their inner limit positions.

2,158,676
WING FLAP MECHANISM
Lloyd F. Engelhardt, Ferguson, Mo., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application February 24, 1938, Serial No. 192,242
9 Claims. (Cl. 244—42)



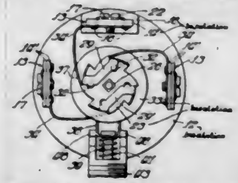
1. In a wing having a trailing edge flap, chordwise spaced support pivots on the flap, means for guiding the forward pivot rearwardly and upwardly in a substantially arcuate path, and means guiding the rearward pivot rearwardly and downwardly in a substantially arcuate path, one of said means serving as a device for effecting flap movement relative to the wing, the forwardmost parts of said arcuate paths being substantially tangent to the wing chord line.

2,158,677
CLUTCH
Thomas W. Pallister and Henry W. Leman, Peoria, Ill.; said Pallister assignor to Advance Appliance Co., Peoria, Ill., a corporation of Illinois
Application March 9, 1938, Serial No. 194,820
4 Claims. (Cl. 74—162)



1. In a clutch, in combination with a member to be driven, a swingable lever-arm having spaced extensions fixed relatively adapted to lie astride and to receive between them part of said member, one of such extensions having a first gripping surface adapted to have gripping engagement with one surface of the member, and a shoe abutting the other extension and having a second gripping surface to engage an opposite surface of said member, the first named extension and the shoe adapted in a swing of the lever-arm in one direction to grip the member in driving relation, the said shoe and the second named extension being tiltable with respect to each other in all directions.

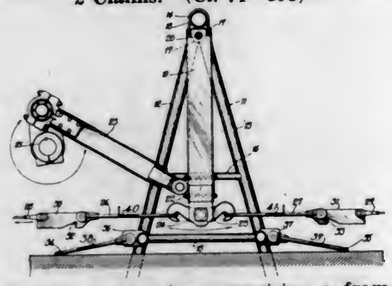
2,158,678
SWITCH
Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana
Application January 21, 1937, Serial No. 121,624
4 Claims. (Cl. 200—64)



1. In an electric switch having an insulating frame, the combination with a rotary switching unit mounted in said frame comprising a plurality of coaxial switching rotors electrically independent of one another, of a terminal and brush unit supported on said frame and substantially as long as the axial length of said rotary switching unit, said terminal and brush unit comprising a plurality of substantially identical metal plates in face to face engagement for fastening together to provide ruggedness and satisfactory electrical conductivity over the length of said terminal and brush unit, a plurality of stationary electrical brushes mounted on one side of said plurality of metal plates corresponding in number to the number of rotors in the rotary switching unit with said metal plates being electrically common to all of said rotors through said brushes

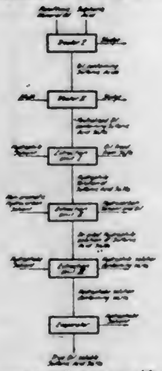
but being out of direct engagement therewith, and means for both mounting said brushes on said metal plates and rigidly securing said metal plates together in face to face relationship.

2,158,679
PUMPING PENDULUM
Bennett H. Ravanelli, Greggton, Tex., assignor to Oil Well Supply Company, Dallas, Tex., a corporation of New Jersey
Application September 23, 1937, Serial No. 165,399
2 Claims. (Cl. 74—593)



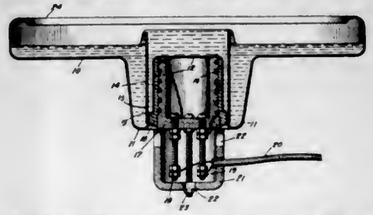
1. Pumping apparatus comprising a frame, a pendulum pivotally suspended from the frame, means to oscillate the pendulum, a double hook member secured to and adjacent the bottom of the pendulum, each hook extending on opposite sides of the pendulum in the direction of oscillation of the pendulum and means to detachably secure a rod line to each of said hook members, said means comprising a connecting link for attachment to each rod line, a loop member pivotally secured to each connecting link and adapted to engage the pendulum hook, and a knock-off means in a position relative to each connecting link to engage the link and to secure the same against further movement before the termination of its oscillation movement away from the said pendulum thereby to release the said loop from engagement with the said hook.

2,158,680
PROCESS FOR FRACTIONATION OF SULPHONIC COMPOUNDS
Edmond R. P. E. Retaillian, Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 17, 1936, Serial No. 96,482
8 Claims. (Cl. 260—504)



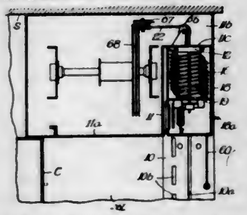
1. In the process of separating components of relatively high detergent and emulsifying properties from an oil-soluble substantially oil-free mixture of sulphonic compounds having varying detergent and emulsifying properties and solubilities in hydrocarbon oils, the steps comprising subjecting said mixture to the action of two counterflowing mutually substantially immiscible organic solvents a water-insoluble solvent, separable from sulphonic compounds by distillation, and a water-soluble solvent, under conditions to form two liquid phases with a different solvent predominating in each phase and each phase containing a portion of sulphonic compounds of different composition from that of the other portion, separating the liquid phases and distilling the phase with predominating content of the water-insoluble solvent to separate and recover the sulphonic compounds dissolved therein.

2,158,681
CABINET BATH APPARATUS
George A. Schulte, New York, N. Y., assignor to Health-Glo Laboratories, Inc., New York, N. Y., a corporation of New York
Application April 14, 1938, Serial No. 202,047
2 Claims. (Cl. 219—38)



1. A vapor generating unit for use in cabinet bath apparatus comprising a pan adapted to contain a quantity of liquid to be evaporated, said pan having a depending well portion the bottom of which extends inwardly to form a reentrant portion within said well portion, a baffle member extending above the level of liquid in said pan and into said well portion and having its inner wall spaced from said reentrant portion to form a liquid confining chamber, said member having an opening therein near the bottom of said well admitting liquid from said well into the chamber between said member and said reentrant portion, and heating means mounted within said reentrant portion for heating the liquid in said chamber.

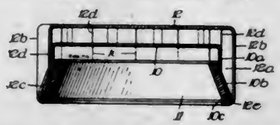
2,158,682
SHUTTER
Don D. Sweney, Michigan City, Ind., assignor to Dwyer Products Corporation, Michigan City, Ind., a corporation of Indiana
Application October 25, 1937, Serial No. 170,766
12 Claims. (Cl. 189—60)



1. A shutter comprising, in combination, a plurality of slats, means for suspending them movably in spaced relationship one under an-

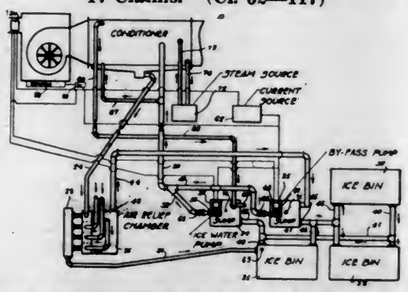
other, and a carrier below the slats and movable vertically in the space wherein they are suspended, said carrier having end, side and bottom walls forming a compartment for receiving the slats one upon another as it is elevated through said space.

2,158,683
CLOSURE CAP
William P. White, Glencoe, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application June 17, 1935, Serial No. 26,978
4 Claims. (Cl. 215—40)



1. A closure cap comprising, in combination, an inner shell having a top portion and a depending skirt formed with an outwardly projecting part, a gasket of sealing material retained within said inner shell, and an outer shell of greater depth than the inner shell and having a top portion covering the top of the inner shell and a depending skirt encompassing the inner shell, the skirt of the outer shell being provided with longitudinal flutings to form struts extending from its top portion to and in overlying abutment with the outwardly projecting part of the inner shell skirt.

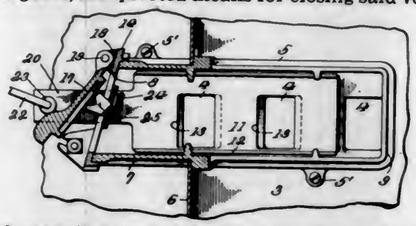
2,158,684
AIR CONDITIONING SYSTEM
Samuel M. Anderson, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application October 22, 1936, Serial No. 107,019
Renewed September 30, 1938
17 Claims. (Cl. 62—117)



6. An air conditioning system for a passenger vehicle, comprising an air washer unit, a water supply source, a pump for supplying water from said source to said unit, means for returning water from said unit to said source, and an air relief chamber between said unit and said source.

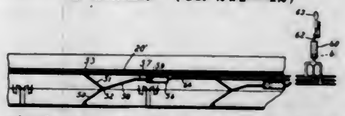
2,158,685
BACK DRAFT VENT FOR RANGES
Jesse W. Barker, Geneva, N. Y.
Application February 10, 1938, Serial No. 189,844
6 Claims. (Cl. 126—36)

1. In a dual range, a main discharge flue, a compartment having vents opening into said flue, a frame in said flue having a sliding damper means movable therein for controlling said vents, a vent on one end of said frame communicating with the flue and the atmosphere for venting back flue gases, and pivoted means for closing said vent,



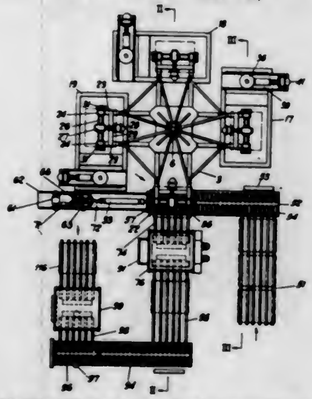
and means for simultaneously actuating said pivot means and said damper.

2,158,686
AIRFOIL CONSTRUCTION
George E. Barnhart, Pasadena, Calif.
Application February 16, 1937, Serial No. 126,005
1 Claim. (Cl. 244—42)



An airplane, a fuselage, an operator's station, and a pair of wings each having a substantially fixed portion, a flap mounted on each wing for downward swinging movement away from said fixed portion, a plurality of fluid pressure devices for each flap for swinging the same downwardly, said fluid pressure devices being disposed along each wing adjacent its respective flap and operatively connected to the flap, manually operable means adjacent said operator's station, means for compressing fluid operable by said manual means and means for connecting said last named means to the fluid pressure devices along the wings for actuating the latter.

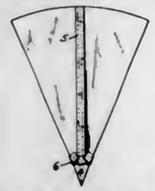
2,158,687
METHOD AND APPARATUS FOR TREATING METAL
Florence C. Biggert, Jr., Crafton, and Charles F. Buente, Pittsburgh, Pa., assignors to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 29, 1936, Serial No. 82,542
9 Claims. (Cl. 148—4)



1. Metal-treating apparatus comprising a tank for receiving a metal-treating bath, means for rotating a coil of metal therein on a substantially horizontal axis, means for circulating said bath in said tank, and means for directing said circulating bath through said coil, the bottom of the tank at the end opposite to said directing means being curved upwardly to direct said bath in an upwardly curved path without substantial eddying.

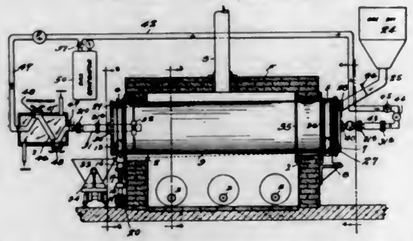
5. The method of treating metal strip, comprising forming a loose coil of said strip, supporting said coil in a metal-treating bath with a portion of its convolutions spread apart, rotating the coil in said bath to cause successive portions of its convolutions to spread apart, positively circulating said bath transversely across said strip between said spaced convolutions, removing the coil from the bath, circulating warm air between said convolutions to dry the coil, and spraying oil between said convolutions to oil the strip.

2,158,688
PAPER PASTRY CONE
William H. Brooks, Fairfax, Calif.
Application September 25, 1937, Serial No. 165,714
1 Claim. (Cl. 107—52)



A paper cone for the purpose described, said cone being formed of a tough but flexible sheet of paper formed into a cone with an overlapping side seam, a reenforcing strip covering said side seam, and a second reenforcing strip encircling the apex portion of the cone but spaced from the point of the apex, both reenforcing strips being secured to the paper by an adhesive.

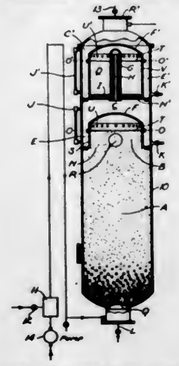
2,158,689
APPARATUS FOR TREATING COMPLEX ORES
George W. Buchanan, Pollock, Idaho, assignor to Metals Recovery Co., Inc., Spokane, Wash., a corporation of Idaho
Application March 23, 1937, Serial No. 132,643
1 Claim. (Cl. 266—18)



An apparatus for treating ores in a closed circuit comprising a heating furnace having alined openings therein for the reception of a rotary oven forming part of a closed circuit, one of said openings being larger than the other, fixed bearing rollers on the furnace adapted to rotatably support one end of said oven, vertically adjustable bearing rollers on the furnace adapted to rotatably support the other end of the oven and being located adjacent the larger opening, means for elevating or lowering said adjustable rollers,

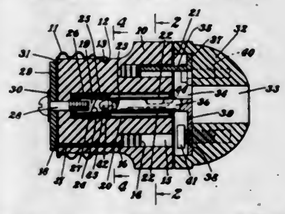
means for supplying reducing gas under pressure to said circuit, and a condensor in said circuit for extracting the volatilized elements from the reduring gas.

2,158,690
METHOD FOR TREATING OILS
Sumner E. Campbell, Long Beach, Calif.
Application September 3, 1935, Serial No. 38,992
4 Claims. (Cl. 196—45)



1. The process of treating petroleum and other hydrocarbon oils with liquid reagents which comprises: continuously flowing a stream of petroleum oil intermingled with a liquid reagent of greater specific gravity directly through alternating zones of relatively high and low velocity, and withdrawing such liquid reagent from the zones of relatively low velocity as is separated therein without permitting flow of said stream through the separated reagent; the zones of relatively high velocity containing contact material sufficiently finely divided to assure coalescence of the liquid reagent while in the presence of a maintained body of said reagent through which said stream must pass in its entirety.

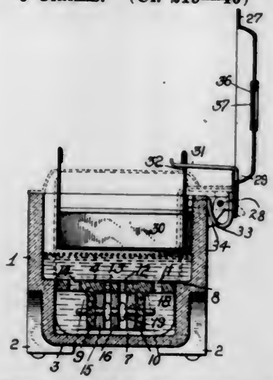
2,158,691
ELECTRIC PLUG
Alexander Carlino, Cleveland, Ohio
Application September 23, 1936, Serial No. 102,213
1 Claim. (Cl. 173—343)



An electrical connector comprising a pair of detachable members, one of said members having a longitudinally disposed recess and a groove spaced from and surrounding said recess, a helical spring contact element in said groove, a contact element at the inner end of said recess, guiding means in said recess having a pair of longitudinally disposed arms, the other of said members having a pair of metallic prongs adapted to be inserted in said groove and recess and engage said contact elements, said spring being adapted to exert outward pressure against one of said prongs, and means at the end of one of said arms adapted to enter a groove in the other of

said prongs substantially simultaneously with the engagement of said other prong with its respective contact element to hold said members in electrical engagement.

2,158,692
STERILIZER
Samuel Duberstein and Nicholas Lawner, Brooklyn, N. Y., assignors to American Sundries Company, Inc., a corporation of New York
Application August 21, 1935, Serial No. 37,183
6 Claims. (Cl. 219—40)



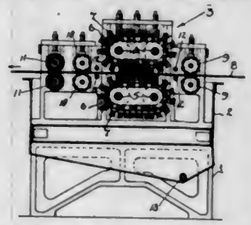
3. A sterilizer comprising a porcelain box adapted to contain water, a perforated porcelain false bottom normally fixed in said box, and spaced bare electrical conductors under said false bottom for heating the water by passing current through the water, said conductors being protected from contact with the hands by said false bottom, but the perforations in said false bottom permitting limited circulation of the water up past said conductors and through said perforations to heat all the water in the box.

2,158,693
GAS-MASK EYE PIECE MOUNTING
Joseph B. Dym, Pittsburgh, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 5, 1936, Serial No. 114,407
5 Claims. (Cl. 2—14)



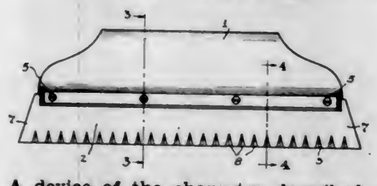
1. In a gas mask, goggle or the like, the combination of a flexible member adapted to engage in sealed relation with the face of the wearer, said member having an opening therethrough for an eye or the like of the wearer, an integrally molded upstanding flange bounding the eye opening on the side of the flexible member away from the face of the wearer, an integrally molded substantially annular body having substantially a U-shape in cross section secured at one side of the base of its U-shaped body to the upstanding flange and extending so that the legs of the U-shaped body are directed substantially radially inwardly of the opening, a transparent closure member received in the substantially annular groove provided between the legs of the U-shaped body, an endless one-piece grommet of stiff material, and of substantially a J-shape in cross section surrounding the U-shaped body and constructed and arranged so that the leg of the J-shaped grommet lies over the leg of the U-shaped body remote from the flexible member to force the leg into sealing relation with the closure member and the hook of the J-shaped grommet lies over and forces the base of the U-shaped body radially thereof into sealing relation with the periphery of the closure member, said inner periphery of the edge of the hook of the J-shaped grommet being of greater length than the outer periphery of the closure member, and an integrally molded flange on that leg of the U-shaped body which engages the leg of the J-shaped grommet, said flange extending over the leg of the J-shaped grommet and serving to hold the grommet and leg of the U-shaped body in proper assembly.

2,158,694
METHOD OF AND APPARATUS FOR CLEANING METALLIC SHEETS
Ray M. Fenton, Shaker Heights, Ohio
Application February 4, 1936, Serial No. 62,304
4 Claims. (Cl. 15—77)



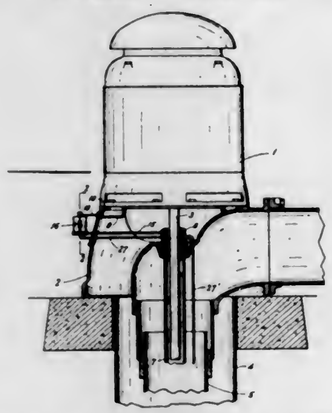
1. In apparatus for scrubbing metallic sheets and the like, the combination of means for conveying a sheet to be cleaned past a cleaning station, an endless web trained about spaced axes with one run thereof adjacent said cleaning station, and a plurality of brushes connected to said web and carried thereby into engagement with the shreet to be cleaned, and means for reciprocably advancing said web and brushes past said cleaning station.

2,158,695
DEVICE FOR SMOOTHING WALLPAPER AND THE LIKE
Oscar H. Foss, Wooster, Ohio, assignor to The Wooster Brush Company, Wooster, Ohio, a corporation of Ohio
Application October 21, 1938, Serial No. 236,223
5 Claims. (Cl. 216—61)



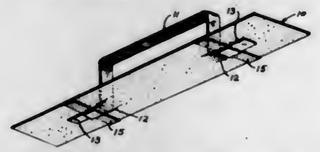
1. A device of the character described, comprising a handle of rigid material, and a pair of bodies of flexible material secured to said handle adjacent one edge of the latter, said bodies being continuous for substantially the entire length of said handle, and having in their outer faces adjacent their unsecured edges spaced notches or recesses, each of which gradually increases in width and depth as said unsecured edges are approached.

2,158,696
PUMP LUBRICATING APPARATUS
James M. Hait, San Marino, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 25, 1935, Serial No. 41,997
5 Claims. (Cl. 103—102)



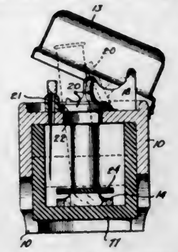
1. In a deep well pump, a vertical line shaft, a bearing therefor, means for driving said shaft, a discharge column, an oil reservoir, a conduit for conducting oil from the reservoir to said bearing, a valve normally closing said conduit, a yieldable pressure responsive device associated with said valve for actuating the same, and means including a conduit extending into said discharge column for directing air pressure created by liquid rising in said discharge column to said pressure responsive device for actuating the latter to open said valve while maintaining any liquid forced into said conduit insulated from temperature conditions outside said pump.

2,158,697
PARCEL HANDLE
Woodford F. Harrison, San Francisco, Calif., assignor to The Adhesive Products Co., San Francisco, Calif., a corporation of California
Application April 7, 1937, Serial No. 135,495
4 Claims. (Cl. 229—52)



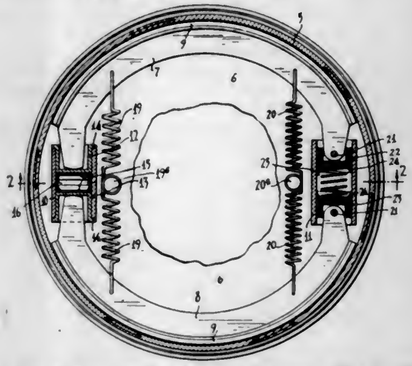
1. A parcel handle comprising a gummed paper body member having a pair of spaced perforations therein, an imperforate area between said perforations, and a bail member of flexible tape having ends extending through said perforations and secured to the gummed side of said body member.

2,158,698
STERILIZER
George Hettinger, East Rutherford, N. J., assignor, by mesne assignments, to American Sundries Co., Inc., Brooklyn, N. Y., a corporation of New York
Application July 23, 1936, Serial No. 92,069
2 Claims. (Cl. 219—40)



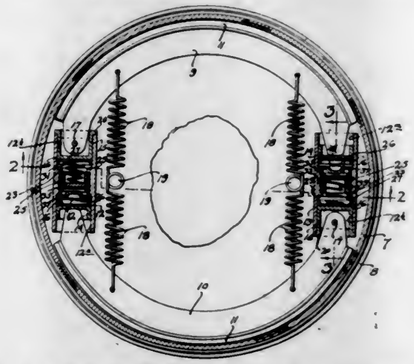
1. A sterilizer comprising a base, a receptacle adapted to hold a pool of water, electrodes positioned to be at least partly immersed in said pool of water, a perforated tray at the top of the receptacle adapted to support articles to be sterilized and having a plurality of holes adapted to receive syringe needles and to direct them into a part of the receptacle away from said electrodes and the portion of the tray around the perforations being above said receptacle, whereby the needles are held with the ends thereof which are to be handled exposed for rapid cooling and their points within the receptacle protected from contamination, and a hollow cover fitting over the tray and the articles to be sterilized adapted to trap steam produced in the receptacle.

2,158,699
BRAKE MECHANISM
Roy Corwin Hoyt, Duluth, Minn.
Application January 8, 1936, Serial No. 58,114
10 Claims. (Cl. 188—152)



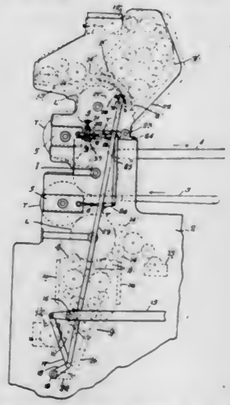
1. In a friction brake mechanism, the combination with a brake drum and a plurality of segmental brake shoes positioned in circumferentially spaced relation within the drum, of means interposed between each of the adjacent ends of the opposite shoes for applying outward expanding pressure thereto, yielding means tending to retract opposite ends of the shoes, means for positively limiting retracting movements of one end of each shoe, to a certain definite point, under the action of said yielding means, and automatic means for adjustably limiting retracting movements of the other end of each shoe.

2,158,700
BRAKE MECHANISM
Roy Corwin Hoyt, Duluth, Minn.
Application January 8, 1936, Serial No. 58,115
6 Claims. (Cl. 188—152)



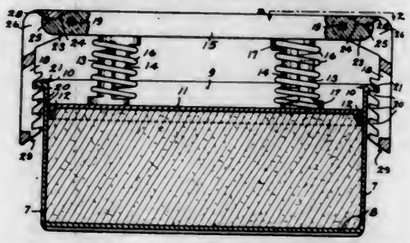
1. In a friction brake mechanism, the combination with a rotary brake drum and a plurality of non-rotary segmental brake shoes disposed in circumferentially spaced relation adjacent the drum, of yielding means tending to retract both ends of each shoe out of engagement with the drum, means for moving opposite ends of each shoe into frictional engagement with the drum to set the brake, means for limiting retracting movements of one like end portion of each shoe, with respect to one direction of drum rotation, to a definite predetermined position irrespective of wear on the friction surfaces, and automatically adjustable means for limiting retracting movements of the other end of each shoe to positions determined by the stage of wear of the friction surfaces and wherein the drum-engaging friction portion of that end of each shoe is spaced a definite predetermined distance from the drum.

2,158,701
PRINTING PRESS
Joseph F. Jirousek, Cleveland, Ohio, assignor to The Chandler and Price Company, Cleveland, Ohio, a corporation of Ohio
Application March 15, 1937, Serial No. 130,937
6 Claims. (Cl. 101—142)



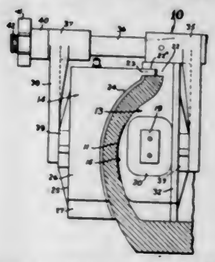
1. A printing press comprising a main frame, an impression cylinder mounted therein, a lithographic printing unit mounted in said frame and adapted for cooperation with said impression cylinder, an auxiliary frame mounted on said main frame and movable towards and away from the latter, and a second lithographic printing unit mounted in said auxiliary frame and adapted for cooperation with said impression cylinder.

2,158,702
MEAT MOLD
Joseph Kipper, Seattle, Wash.
Application February 4, 1937, Serial No. 124,087
2 Claims. (Cl. 53—22)



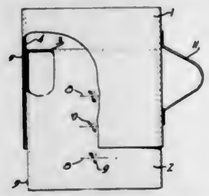
1. In a mold of the class described, a mold receptacle having an outwardly projecting hook shaped lug on each end; a closure member for the top portion of said mold receptacle; a retainer bar extending lengthwise of said mold receptacle in spaced relation thereabove; resilient connector means operatively connecting said retainer bar and said closure member; latch members of substantially inverted L shape having teeth positioned to engage with the lugs on the ends of the receptacle; pivot means connecting the upper end portions of said latch members with the end portions of said retainer bar, said pivot means being positioned inwardly from planes common to the ends of said mold receptacle; a latch member support on each end of said retainer bar extending outwardly beyond the adjacent pivot means; and means on each latch member positioned to rest upon and be supported by the adjacent latch member support when the teeth of the latch members are operatively engaged with the lugs on said receptacle, whereby the major portion of the strain on each latch member will be borne by the latch member support and the pivot means connecting the latch member support with the retainer bar thereby relieved of strain.

2,158,703
PATCH VULCANIZING APPARATUS
Floyd E. Kite, Los Angeles, Calif.
Application June 15, 1937, Serial No. 148,295
6 Claims. (Cl. 18—18)



5. In a patch vulcanizing apparatus, a mold member comprising an inner member and an outer member, said inner member being segmental and including an inner portion of a contour to engage the inner wall of a tire casing, said inner member having a recess therein and having a groove communicating with said recess, a heating element disposed in said recess, a thermo-switch in said groove, said inner member having a boss thereon, an outlet coupling in said boss, leads extending from said coupling to said heating element through said switch, said outer member comprising a hollow shell having segmental end walls which conform to the outer surface of a tire casing, said outer member having an arcuate inner flange and said inner member having an arcuate outer flange, said flanges being adapted to engage a bead on a tire, said inner member having a supplemental flange extending over the flange on the outer member, said outer member including a central cavity, an air bag in said cavity, means extending through the wall of said outer member whereby the air bag may be inflated, said inner member having a closure extending over said recess, said closure having a boss thereon, a clamping block engaging said boss, means passing through said clamping block and said boss to hold the parts assembled, said clamping block including an end portion engaging the arcuate inner wall of said inner member, said block having a rod projecting therefrom, a collar slidable on said rod, said collar having a clamping member thereon, said outer member having a boss engaging said clamping member, a sleeve on said rod, the end of said rod being threaded and a nut integral with said sleeve and engaging said threaded end of the rod.

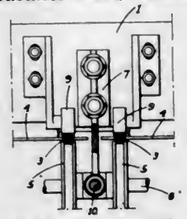
2,158,704
MEASURING CUP
Ira W. Ligon, Richmond, Calif.
Application July 13, 1937, Serial No. 153,350
4 Claims. (Cl. 73—165)



1. A measuring cup comprising an outer shell open at both ends, an inner shell slidably telescoping with the outer shell, a bottom closing one end of the inner shell and movable to selected position relative to the outer shell for producing a measure of desired capacity, the inner shell and closure being slidably movable in one direction to provide measures less than the capacity of the outer shell and in the opposite direction for providing measures greater than the capacity of the outer shell, and indicia upon the inner shell readable with respect to the ends of the outer shell for indicating the capacity of the measure at various positions of the inner shell.

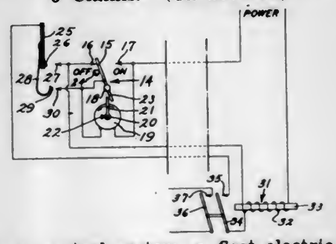
2,158,705
FLEXIBLE SEPARATOR SCREEN
Roscoe C. Randolph, Chico, Calif.
Application March 16, 1936, Serial No. 69,015
6 Claims. (Cl. 209—12)

1. A separator structure comprising a trough disposed with a downward slope toward one end and adapted to receive material to be separated on its upper end, the bottom of the trough comprising an endless belt separator screen including a series of parallel wires extending lengthwise



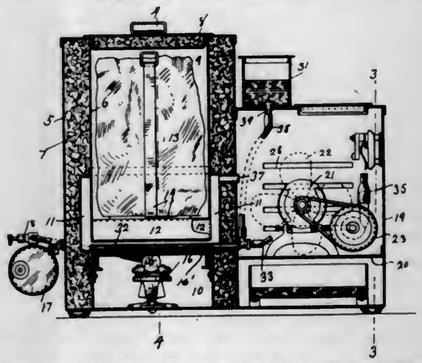
of the trough and means to drive the screen in a direction transversely of the trough.

2,158,706
CONTROL CIRCUIT
William A. Ray, Glendale, Calif.
Application August 9, 1937, Serial No. 158,126
6 Claims. (Cl. 236—46)



1. In a control system, a first electric circuit including in series a source of power, a load, a switch comprising a member movable into alternative contact positions, and means responsive to change in physical conditions to control said load; an electric time-delay device adapted to move said member into position to close said first circuit after a predetermined lapse of time; and a second electric circuit including in series said time-delay device, said load, said source of power, and said switch; said switch being adapted, in one position of said member, to close said first circuit and simultaneously to open said second circuit and, in the alternative position of said member, to open said first circuit and simultaneously to close said second circuit.

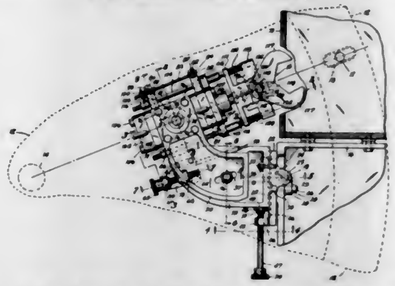
2,158,707
AIR CONDITIONING DEVICE
Frank B. Rentz, Wells, Minn.
Application September 15, 1937, Serial No. 163,976
2 Claims. (Cl. 62—131)



1. In a heat exchange apparatus, the combination with a casing formed with a temperature

producing chamber and a heat exchange compartment that extends under the bottom of and around the lower portion of said temperature producing chamber, laterally spaced transverse circulating tubes extending from one side to the other of said heat exchange compartment and projecting upward from the bottom of said temperature producing chamber and adapted to serve as a support for an ice cake, a radiator, a fan adjacent said radiator, a pump, a motor with connections for driving said fan and pump, and pump connections for circulating water through said radiator and through said heat exchange compartment.

2,158,708
ADJUSTABLE SHEARS
Samuel G. Stuckey, Affton, Mo., assignor to Obear-Nester Glass Company, St. Louis, Mo., a corporation
Application November 29, 1935, Serial No. 52,181
6 Claims. (Cl. 49—14)



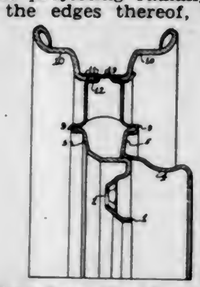
2. In a device of the kind described, a glass discharge mechanism, a base member, a cutting member for severing glass from said discharge mechanism, and means mounting said cutting member on said base member, said means including a circular boss upstanding from one of said members and an opening on the other member to receive said boss, and means for drawing the two members together to hold them in adjusted position.

3. In a device of the kind described, a glass discharge device, a cutting mechanism, a frame, means movably mounting the frame on the glass discharge device, a plate, means movably mounting the plate on the frame, an arm, means movably mounting the arm on the plate, and means mounting the cutting mechanism on the arm, each of the aforesaid movements being in a different direction.

4. The method of controlling the depositing of glass gobs into molds having a cross-section including a major axis comprising locating a mold having a cross-section including a major axis beneath the orifice of a glass discharge mechanism, and thereafterwards adjusting a shear mechanism disposed adjacent said glass discharge mechanism so that the shear blades move in closing and opening along a path substantially at right angles to the major axis of the mold so that a severed gob will have its major axis disposed to correspond to the major axis of the receiving mold.

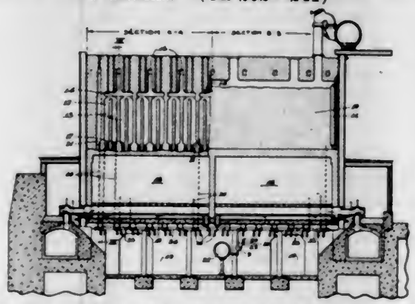
2,158,709
METAL SPOKED WHEEL
John T. Trumble, Detroit, Mich.
Application December 21, 1931, Serial No. 582,286
3 Claims. (Cl. 301—64)

1. A vehicle wheel including in combination: a unitary sheet metal spoke spider comprising a one piece annular ring having a plurality of integral spokes projecting radially therefrom intermediate the edges thereof, integral flanges



formed at the edges of said ring, a radially extending hub attaching flange secured to one of said flanged edges, and an axially extending hub shell secured to the other flanged edge.

2,158,710
COKE OVEN APPARATUS
Bernard J. C. van der Hoeven, Pittsburgh, Pa., assignor to Koppers Company, a corporation of Delaware
Application January 19, 1937, Serial No. 121,244
9 Claims. (Cl. 202—241)



1. In a coking retort oven of the underjet type having said heating wall on either side thereof containing a plurality of vertically disposed heating flues which are communicably connected by riser conduits with the same distributor-header of a gas distribution system therefor adapted to supply said heating flues alternately with both rich underfiring gas and decarbonization air, a gas distributor-header being horizontally disposed for horizontal gas flow therethrough and having a plurality of outlets distributed horizontally therealong of which each is disposed to supply gases to an individual heating flue, said outlets leading from the header at elevations diversely disposed relative to the inner periphery of said distributor-header, so that gases may be withdrawn simultaneously from divers levels of the same header.

2,158,711
CIRCUIT BREAKER
Victor Weber, St. Louis, Mo., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo., a corporation of Missouri
Application November 2, 1936, Serial No. 108,737
10 Claims. (Cl. 200—122)

3. A circuit breaker comprising a base, a support mounted on said base of boat-like configuration including two ends adapted to serve as abutments, a flexible blade of a length greater than the straight line distance between the abutments

disposed with its ends engaging said abutments, a contact carried by said blade, a second contact supported by the base and disposed in cooperating relation to said first contact, means to break said contacts comprising a member including a J-shaped bimetallic portion and an extension, an



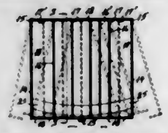
element extending through the end of said extension, said bimetallic portion being adapted to flex upon rise in heat around it to move said element into contact with said blade to move said blade across dead center to break the contacts with a snap action, and a heater element disposed adjacent said bimetallic portion.

2,158,712
REFILL DISPENSING WRAPPER
Wilfred H. West, San Francisco, Calif., assignor to Crown Zellerbach Corporation, San Francisco, Calif., a corporation of California
Application August 17, 1937, Serial No. 159,506
7 Claims. (Cl. 206—57)



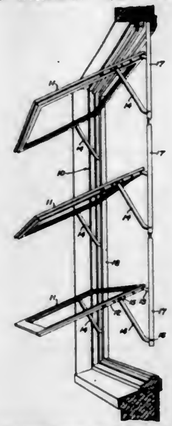
1. A package of paper composed of interfolded sheets of paper arranged in stack formation, and a wrapper surrounding the package, said wrapper composed of a single sheet of material and having overlapping ends secured with relation to each other by an adhesive, one end of the wrapper terminating in a flexible, interleavable tab and the other end being perforated to permit the adhesive when applied to pass through the perforations and thereby secure the lowermost sheet in the package to the wrapper.

2,158,713
CABINET
Fred B. Wiseman, Denver, Colo.
Application December 27, 1937, Serial No. 181,758
5 Claims. (Cl. 312—173)



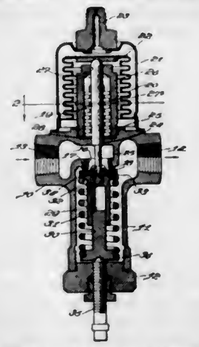
1. A cabinet comprising a rigid frame including spaced top and bottom members in fixed relation with an interconnecting back member, swingable panels hinged to margins of said back member and arranged to close side portions of said frame at times, a plurality of swingable leaves independently hinged to said back member in spaced relation intermediate said panels, and flanges on the free margins of said panels and leaves adapted to cooperate in abutting relation to form a front closure for said frame when said panels are disposed in closing relation with the frame side portions.

2,158,714
MULTIPLE SASH WINDOW HARDWARE
Esmond F. Wiley, Berkeley, Calif., assignor to Universal Window Company, Berkeley, Calif., a corporation of California
Application July 28, 1937, Serial No. 156,097
7 Claims. (Cl. 20—42)



1. The combination with a multiple sash window wherein the movement of one sash controls the others, hardware for mounting the sashes in the frame and comprising separate units for mounting the sashes independently of each other, each unit comprising a guide track for the frame, a shoe slidably confined thereby, a plate for the sash pivoted at one end to said shoe, and a link pivoted at one end to the guide track and at the other end to said plate.

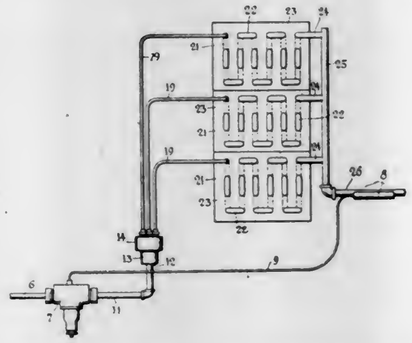
2,158,715
AUTOMATIC VALVE
Henry L. Beckley, Glen Ellyn, and John G. Whiting, Chicago, Ill., assignors to The Electrimatic Corporation, a corporation of Illinois
Application February 18, 1938, Serial No. 191,340
4 Claims. (Cl. 251—137)



1. A valve of the character described for regulating fluid flow, including: a valve casing having an inlet and an outlet; a partition in said casing separating said inlet and outlet, said partition having an opening therein; a valve member

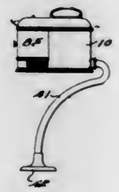
adapted to close said opening; and supporting means for said valve member, said supporting means including a pair of telescoping members and a spring urging said members apart, one of said members carrying said valve member and the other making point-contact with said casing.

2,158,716
REFRIGERATION
John G. Bergdoll, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application December 19, 1933, Serial No. 703,141
7 Claims. (Cl. 62—127)



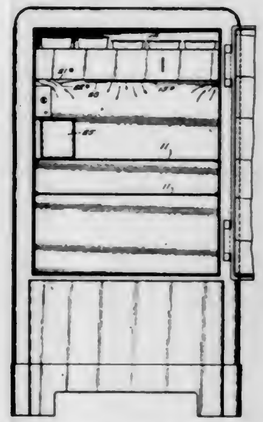
3. The combination of an expansion valve; a plurality of evaporators adapted to be fed in parallel with refrigerant delivered by said expansion valve; and a branch fitting interposed between said expansion valve and said evaporators, said fitting having a high velocity injection nozzle connected with the discharge of the expansion valve, a chamber in which the jet discharged by the nozzle induces turbulent flow, and symmetrically arranged outlet passages leading from said chamber to respective evaporators.

2,158,717
VACUUM CLEANER
Clarence A. Brock, Detroit, Mich., assignor, by mesne assignments, to Rexair, Inc., a corporation of Delaware
Application December 18, 1935, Serial No. 54,966
8 Claims. (Cl. 230—133)



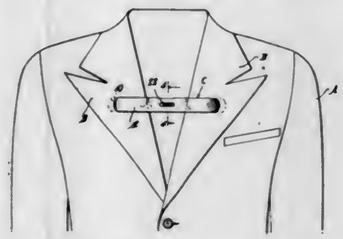
1. In a dust separator, a casing, a housing within said casing, a resilient partitioning member clamped to said casing and said housing serving to divide said casing internally into separate upper and lower compartments, and means within said housing for drawing air from said upper compartment into said lower compartment whereby said housing will be bodily raised and said partitioning element will be tensioned.

2,158,718
REFRIGERATING APPARATUS
Charles J. Gibson, Greenville, and Jens Touborg, Tecumseh, Mich., assignors to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application December 16, 1937, Serial No. 180,248
6 Claims. (Cl. 62—103)



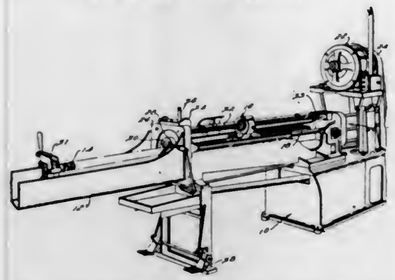
5. In combination with a refrigerator having a food compartment: a horizontal surface type evaporator in the food compartment, said evaporator forming a shelf in the food compartment, the area of a horizontal projection of said evaporator being substantially the same as the horizontal cross-sectional area of the food compartment; a food shelf below the evaporator; a drip baffle above the food shelf and below the evaporator, said drip baffle having a discharge opening; and a relatively tall deep drip receptacle with a relatively small cross-sectional area adapted to receive water discharged from the discharge opening in the drip baffle.

2,158,719
LAPEL FASTENER
Max H. Gronauer, Memphis, Tenn.
Application April 20, 1938, Serial No. 203,154
6 Claims. (Cl. 24—81)



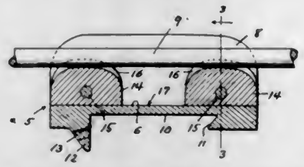
1. A lapel fastener comprising, a pair of interconnected superposed elongated members, one of said members having a central portion thereof indented to abut the opposed member whereby to hold the ends of said members in spaced relationship and securing means passing through said members, an exterior part of said securing means lying in said indented portion so as not to project substantially outwardly of said one member.

2,158,720
SPIRAL BROACH DEVICE
William A. Hart, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan
Application July 19, 1935, Serial No. 32,230
6 Claims. (Cl. 90—33)



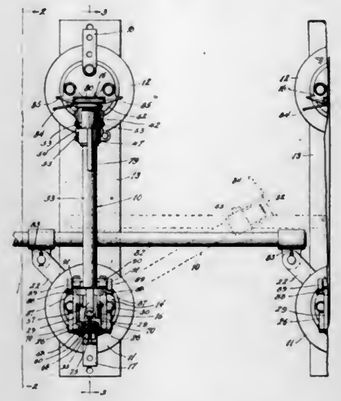
1. A machine for operating a broaching tool comprising, in combination, a rectilinearly movable pull bar; a tool head for connecting said pull bar to said broaching tool so that said movement of said pull bar causes rectilinear movement of said broaching tool, said tool head comprising a driven element secured to said broaching tool and a driving element for actuating said driven element; means comprising a spirally cut lead screw for rotating said driving element in timed relation to movement of said pull bar whereby to correspondingly rotate said broaching tool during the rectilinear movement of said broaching tool; and means for stationarily supporting said lead screw against rotation in any of a plurality of rotative positions.

2,158,721
SELF-LUBRICATING TROLLEY SHOE
William Roy Jackson, Greenville, S. C., assignor of fifty per cent to Aiken L. Rikard, Greenville, S. C.
Application August 4, 1938, Serial No. 223,116
1 Claim. (Cl. 191—59.1)



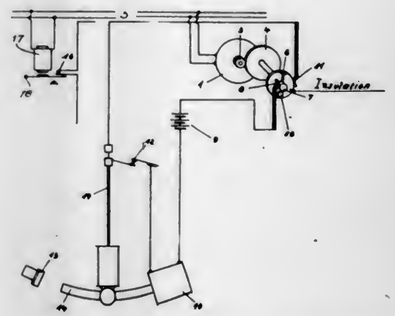
A trolley shoe of the class described comprising a head channel-shaped in cross section including a flat web and side walls, said web and side walls being integrally connected together, flat bottom contact blocks supported in the channel of said head, said blocks having grooved top surfaces for engaging a trolley wire, means for removably holding the blocks in the channel of said head, said blocks being spaced apart to provide a lubricant containing space therebetween, said space having its bottom wall formed of a part of the web and its side walls formed from portions of the side walls of the head and its end walls formed by the inner ends of the blocks with the top of the space open, the upper surfaces of said blocks being spaced from the top of the head and the inner faces of the side walls of the channel sloping upwardly and outwardly from the upper portions of the blocks.

2,158,722
FUSE SWITCH
Tomlinson F. Johnson, Atlanta, Ga.
Application August 1, 1938, Serial No. 222,528
15 Claims. (Cl. 200—114)



1. A combination gang switch and drop-out fuse assembly having fused switch units manually operable to open as an ordinary switch in one direction; and pivoted latch releasable supports for the units permitting them to drop out automatically in another direction when the fuses are blown.

2,158,723
MEANS FOR CONTROLLING PENDULUM CLOCKS
Helmut Junghans, Schramberg-Sulgen, Germany
Application November 26, 1935, Serial No. 51,669. Renewed April 5, 1939. In Germany December 1, 1934
2 Claims. (Cl. 58—26)

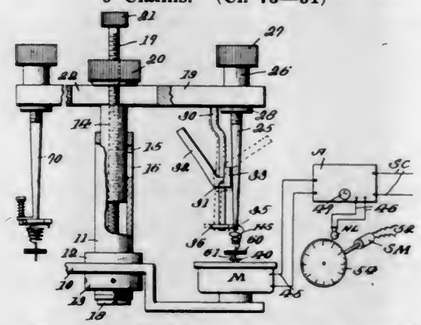


1. In a control means for pendulum clocks making use of frequency-regulated alternating current, a synchronous motor, an electric circuit, a battery in said circuit, a contact device actuated by the motor and provided in the circuit, a second contact device actuated by the pendulum of the clock and provided in the circuit, a coil energized by the battery for actuating the pendulum, a relay connected with the alternating current supply, and a third contact device in said circuit and actuated by the said relay when the latter is excited by the alternating current supply.

2,158,724
STABILIZED COMPOSITION
Lowell B. Kilgore, Washington, D. C., assignor to Kilgore Development Corporation, Washington, D. C., a corporation of Virginia
No Drawing. Application March 28, 1936, Serial No. 71,512
6 Claims. (Cl. 167—22)

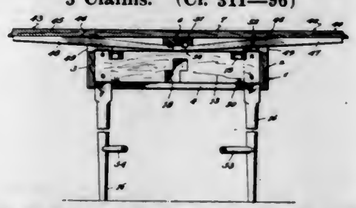
1. Organic compound susceptible to spontaneous reaction with oxygen to form organic peroxides, stabilized by being brought into combination with a compound of the class of organic chemicals known as enol tautomers of esters of epsilon-substituted, alpha, gamma-diketo, delta, epsilon-unsaturated acids, wherein the epsilon substituents may include hydrogen, an alkyl radical, a heterocyclic radical, a carbocyclic radical, or an unsaturated aliphatic radical.

2,158,725
APPARATUS AND METHOD FOR TESTING HAIRSPRINGS AND LIKE DEVICES
Robert R. Lawson, Claude L. Bennett, and Frank D. Urie, Elgin, Ill., assignors to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois
Application July 29, 1937, Serial No. 156,414
9 Claims. (Cl. 73—51)



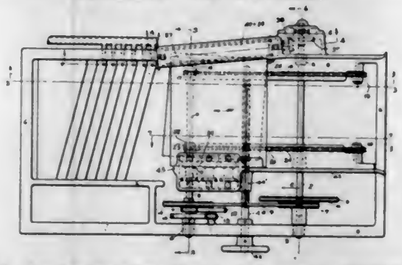
1. The method of testing hairsprings and like devices which comprises securing the device adjacent one end and applying a yielding axial force adjacent the other end, torsionally vibrating the device whereby torsional and axial movements occur, and detecting the rate of such axial movements.

2,158,726
TABLE
William C. Lindsay, Harriman, Tenn., assignor to Lock-Leg Table Company, a corporation of Tennessee
Application February 5, 1936, Serial No. 62,505
Renewed October 21, 1938
5 Claims. (Cl. 311—96)



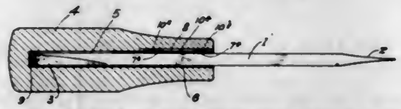
5. In a table, a frame, a top, leaves carried by the frame and having arms, folding legs carried by the frame and adapted to be unfolded for supporting the table in an upright position, said leaves being extensible to lie flush with the top and being retractable to lie beneath said top, and means carried by the legs for engaging the arms and retaining the leaves in retracted position beneath the top when the legs are folded.

2,158,727
PROCESS FOR SEPARATING HANDYSETS AND PILES AND APPARATUS THEREFOR
John R. Morrison, Hampton, Va., and Reuben E. Babcock, Baltimore, Md.; said Babcock assignor to The Baltimore Salesbook Company, a corporation of Maryland
Application July 22, 1938, Serial No. 220,662
13 Claims. (Cl. 164—84.5)



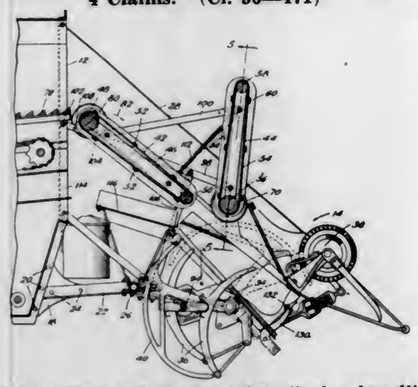
13. An apparatus for separating interleaved sheets from sheets in an aggregation consisting of, means for holding one edge of the aggregation of the sheets without the interleaved sheets and while so held means for advancing the aggregation along a fixed path, means for holding the opposite edge of the aggregation and the interleaved sheets and means for removing the other edge of the aggregation and the interleaved sheets progressively as the aggregation is so advanced consisting of, a tearing means operating progressively on said aggregated sheets and the interleaved sheets as the same is so advanced whereby the said aggregated sheets are buckled at the entering edge, and means for segregating the sheets of the aggregation remaining after the separation of the interleaved sheets into predetermined receptacles according to the buckling of said sheets.

2,158,728
TOOL HANDLE
Frederick W. Peters, Cleveland, Ohio
Application October 6, 1938, Serial No. 233,579
1 Claim. (Cl. 279—102)



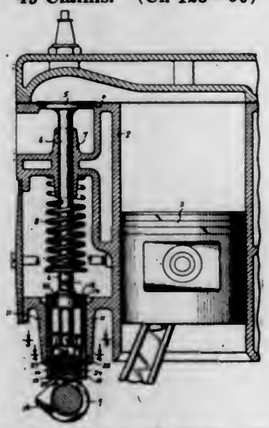
A tool comprising an implement having a shank and a handle, the said handle having a bore provided with a recess extending longitudinally thereof, a sleeve fitted within the said bore, the said sleeve being provided with a slot extending longitudinally thereof and in register with said recess, the walls defining the ends of the said slot being beveled rearwardly and forwardly toward the outer wall of the said recess, and a spring having a central body portion located within the slot and being of less length than the length of the said slot, said spring having bowed end portions extending from the body portion thereof the extreme ends of which end portions are adapted to ride upon the sleeve in front and at the rear of the said slot, respectively and adapted to be forced into engagement with the wall of the recess in register with the said slot by the action of the inclined walls at the front and rear ends of the said slot upon the corresponding inclined portions of the bowed ends of said spring.

2,158,729
STRAW BUNDLER
Glen C. Peterson, Mokena, Ill.
Application June 22, 1937, Serial No. 149,729
4 Claims. (Cl. 56—471)



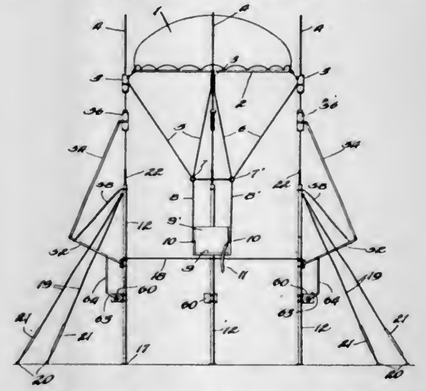
1. In a device of the type described, a bundling mechanism adapted for association with a thrasher having a straw discharge, two traveling canvases positioned between the straw discharge and the bundling mechanism, one of said traveling canvases being positioned substantially in a vertical plane and the other of said traveling canvases being arranged at an obtuse angle thereto, said traveling canvases being so arranged as to deliver the straw to the bundling mechanism in a compacted mass, and means for operating the canvases.

2,158,730
VALVE OPERATING MECHANISM
Robert C. Russell, Dallas, Tex., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 19, 1932, Serial No. 629,474
45 Claims. (Cl. 123—90)



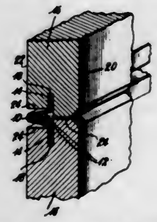
1. Valve operating mechanism, comprising in combination, a spring loaded valve operable in relation to its seat, a cam having a lobe and heel, a lifter sleeve having a cam follower portion and interposed between the valve and cam, self adjusting wedge means including a pair of spaced wedges and an overlapping wedge coacting with said pair, a retainer guide mounted in the sleeve and in which the self adjusting wedge means are operatively seated, an oil chamber enclosed between the wedge means and retainer guide, a compensating spring interposed between the wedge pair and urging same apart, an oil supply in the sleeve and valve controlled inlet leading to the oil chamber to admit and trap oil between the wedge pair to hold them in outwardly adjusted position, whereby the overlapping coacting wedges sustain the pressure and carry most of the load imposed by the cam and spring loaded valve during the open period thereof.

2,158,731
PARACHUTE BRAKING MEANS
William B. Schmidt, Chicago, Ill.
Application June 25, 1938, Serial No. 215,746
16 Claims. (Cl. 272—6)



4. In combination with a parachute, a plurality of guide wires, means engaging the parachute and wires for guiding the parachute along the wires, means disposed in juxtaposition to the wires for determining a stopping point for said parachute, and braking means, normally disposed on said wires at points several feet above said point for bringing the parachute to rest.

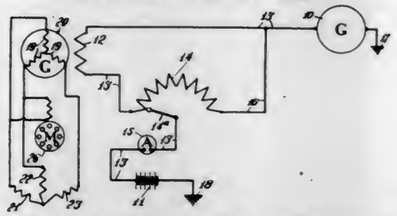
2,158,732
PANEL AND SUPPORT THEREFOR
Randolph W. Shannon, Washington, D. C.
Application August 19, 1935, Serial No. 36,928
8 Claims. (Cl. 20—15)



1. In combination, a panel board and supporting strip therefor, said strip comprising a laterally

resilient channel-shaped web and oppositely disposed flanges extending outwardly therefrom, slots provided between the front and rear faces of said panel at the edges thereof to be supported, said slots adapted to receive said flanges, and means provided at the front of said panel adjacent said supported edges to conceal said strip.

2,158,733
ELECTRICAL HEATING MECHANISM
Joseph G. Sola, Oak Park, Ill.
Application September 13, 1935, Serial No. 40,454
2 Claims. (Cl. 171—313)



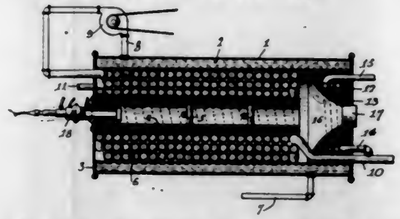
1. In an electrical heating mechanism for a vehicle, the combination of a polyphase alternator of the type having revolving windings and arranged for a high internal reactance effect by reason of the number of the turns in the armature coils being substantially greater than the number at which a maximum output of the alternator is procured, a direct current generator, connections between said direct current generator and the field coils of said alternator for energizing said field coils, means for driving said alternator and said direct current generator at varying speeds proportional to the speed of movement of the vehicle, and resistance heater elements connected with said armature coils, the arrangement being such that the increase in the internal reactance of the armature of the alternator serves to keep the output of the alternator to the heater elements substantially uniform as the speed of rotation of the alternator increases.

2,158,734
BRACKET FOR BATHROOM ACCESSORIES
Louis J. Sladek, Chicago, Ill.
Application June 27, 1938, Serial No. 216,085
2 Claims. (Cl. 248—223)



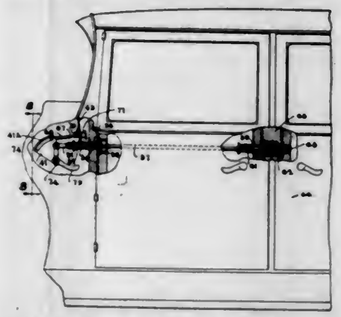
1. In a bracket embodying a base adapted to be secured to a wall or the like and a post projecting from said base, and a removable part having a socket therein into which said post may be passed, said removable part having a recess therein adjacent an end thereof and means for locking said post in said socket, said means comprising a disc-like member having an opening therein through which said post is passed as it is inserted into said socket, means for loosely securing said disc-like member in said recess, and resilient means urging said disc-like member outwardly of said recess and operable to bias an edge of said disc-like member into gripping engagement with said post, said removable part having an opening therein through which an implement may be inserted to force said disc-like member out of gripping engagement with said post to thereby enable said removable part to be withdrawn from said post.

2,158,735
STEAM BOILER
Edmond Vigneault, Trois-Rivieres, Quebec, Canada, assignor to Franco-American Patents Limited, Trois-Rivieres, Quebec, Canada
Application June 1, 1938, Serial No. 211,244
5 Claims. (Cl. 122—248)



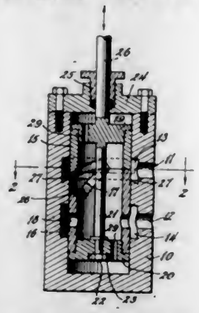
1. A boiler comprising a double-walled member forming a water chamber between its walls, a tube of fire-resisting material mounted lengthwise in said member, tubing coiled in the space between said tube and the inner wall of said member, means for admitting water to said chamber, a water connection from said chamber to one end of said tubing, a water outlet at the other end of said tubing, and means for heating the interior of said tube, a ceramic body mounted in said wall adjacent to one end of said tube, a super-heating coil embedded in said body, said coil having an inlet connected to the outlet of said tubing.

2,158,736
LOCKING APPARATUS FOR VEHICLE BODY DOORS
Brooks Walker, Piedmont, Calif.
Application May 20, 1931, Serial No. 538,728
22 Claims. (Cl. 70—264)



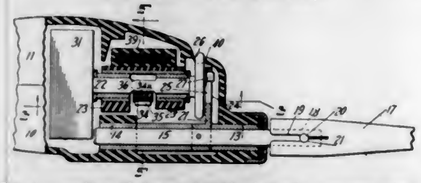
22. In a vehicle body having a front door, a rear door, and a pillar intermediate said doors, the combination with a first locking element carried by said rear door and a second locking element carried by said pillar cooperable with said first locking element to retain said rear door in closed position, of manually operable means carried by said body and associated with said locking elements for releasing the latter from cooperative relation to each other, said second locking element being covered by said front door in the closed position of the latter.

2,158,737
CONTROL VALVE FOR LIQUIDS OF VARIABLE VISCOSITIES
Guido Wünsch, Berlin-Steglitz, Germany, assignor to Askania-Werke A. G., a company of Germany
Application June 8, 1936, Serial No. 84,199
In Germany June 22, 1935
4 Claims. (Cl. 251—34)



1. A control valve for fuel oil or other liquids of variable viscosities comprising, in combination, a substantially cylindrical casing having a knife-edged annular channel providing an inlet port; and a reciprocating cylindrical valve member composed of complemental parts providing a knife-edged triangular port between them to cooperate with said inlet port thereby presenting a variable knife-edged orifice which minimizes the effect of viscosity changes on the flow of the liquid.

2,158,738
MOTOR OPERATED TOOTH BRUSH
Rollyn H. Baker, Dayton, Ohio, and Dale G. Bishop, Chicago, Ill.
Application December 21, 1936, Serial No. 116,982
1 Claim. (Cl. 15—22)

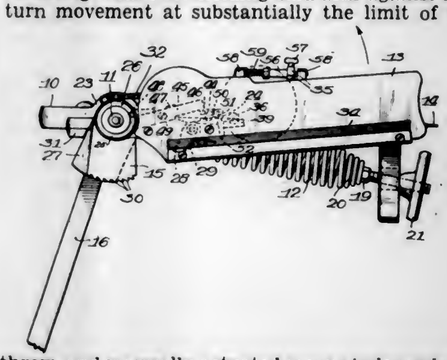


In a motor driven tooth brush comprising a housing adapted to form a hand grip, a brush supporting shaft journaled in said housing and projecting slightly beyond the front end thereof, and means within said housing for oscillating said shaft about its longitudinal axis, a laterally extending stud carried by the projecting end of said brush supporting shaft, and a brush head provided with a socket adapted to receive the end of said brush supporting shaft, said socket having a longitudinal slot of a width less than the thickness of said stud and said slot having an enlarged portion spaced from the end thereof and adapted to receive said stud, said socket being resilient to permit said stud to move through said slot and to retain the same in the enlarged portion of said slot.

2,158,739
TARGET TRAP
Samuel H. Bingham, Jr., Highland Park, Ill.
Application September 30, 1935, Serial No. 42,960
11 Claims. (Cl. 124—8)

1. A target trap comprising a target throwing

arm, an actuating spring therefor, a remote control releasing mechanism for said arm, stationary retaining means for holding said arm against return movement at substantially the limit of its



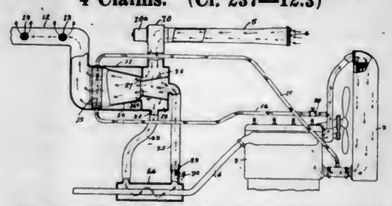
throw, and manually actuated means independent of said remote control mechanism for restoring said arm to initial position by moving the same further in the direction of said throw.

2,158,740
TOY
Roy A. Brinkman, Oak Park, Ill.
Application July 5, 1938, Serial No. 217,555
4 Claims. (Cl. 46—117)



1. A device of the character described, including: a hollow collapsible member having an orifice therein, whereby air will issue from said orifice when the member is collapsed; means for causing sound to be produced by air issuing from said orifice; and a pair of jaws carried by said member, said jaws adapted to be opened by collapsing of said member.

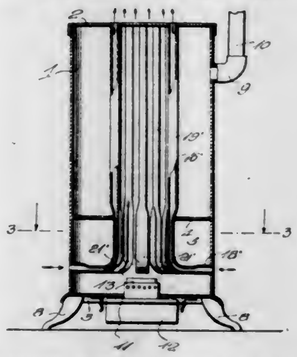
2,158,741
VEHICLE BODY AIR CIRCULATING AND CONDITIONING APPARATUS
John N. H. Christman, Cleveland, Ohio, assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application August 1, 1936, Serial No. 93,771
4 Claims. (Cl. 237—12.3)



4. In a vehicle body air circulating and conditioning apparatus, a water heat exchanger, an

exhaust heat exchanger, a header connected to a source of air under pressure, a discharge nozzle connected with the header and leading therefrom to the water heat exchanger, an air conduit leading from the header to the exhaust heat exchanger, a discharge conduit leading from the exhaust heat exchanger to a discharge nozzle, said last discharge nozzle being coaxial with the first nozzle and having its discharge end at the inlet end of the first nozzle and in inwardly spaced relation to the walls thereof for defining therewith a restricted passage surrounding said last nozzle, whereby said nozzles are in flow inducing relation to each other.

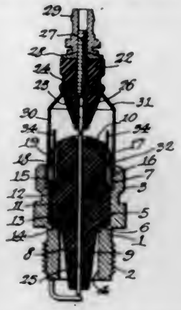
2,158,742
HEATING STOVE
Victor L. Cook, Pewamo, Mich.
Application August 24, 1937, Serial No. 160,689
3 Claims. (Cl. 126—72)



1. A heating stove comprising a casing having an outlet flue for discharge of products of combustion at or near its upper end, a horizontal partition arranged below the horizontal center of the casing and dividing said casing into upper and lower chambers, said partition having a central opening therein for upflow of products of combustion from the lower chamber to the upper chamber, a burner centrally disposed in the lower chamber of the casing in line with said opening, and a group of air heating tubes extending substantially from top to bottom of the casing through the opening in the partition and annularly arranged around the opening and open to the atmosphere at their upper and lower ends, the upper portions of said tubes being vertically disposed in the upper chamber in spaced relation to each other and the lower portions of said tubes being grouped about the burner and spaced from each other, the lower portions of the tubes lying below and in immediate proximity to the partition and between the same and the burner being bent to provide horizontal branches and having their bends overlying the burner and constricted to check the flow of air therethrough at the area of greatest heat transfer.

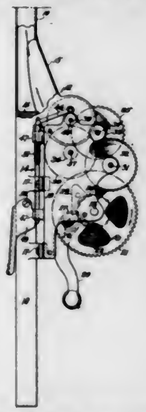
2,158,743
SPARK PLUG
Albert N. Cooper, deceased, late of Keene, Tex., by Mary H. Cooper, administratrix, Roy, Mo.
Application July 6, 1938, Serial No. 217,758
5 Claims. (Cl. 123—169)

1. A spark plug including a threaded body portion having a bore in one end and a counterbore at the other end, there being a tapered shoulder at the inner end of the counterbore constituting a seat, an insulator seated in the bore and counterbore and having annular shoulders, an electrode extending through the insulator, a nut seated in the counterbore and cooperating with the shoulder to clamp the insulator within the body, said nut having a projecting tapered end and an annular groove adjacent to said end, a



second insulator having a tapered end and an annular groove, an electrode seated therein and projecting therefrom, and a contractible and expansible shell detachably embracing the grooved nut and the grooved insulator respectively, said shell constituting means for holding the insulators fixedly spaced and the electrodes in operative relation to each other.

2,158,744
CANDLE EXTINGUISHER
Phillippe D. Cormier, New Bedford, Mass.
Application February 24, 1937, Serial No. 127,452
1 Claim. (Cl. 67—24)



A candle extinguisher comprising an elongate tubular conduit member having a closed handle portion at one end thereof and an air outlet at its opposite end; a fan rotor supported by said handle portion; a housing on said handle portion inclosing said rotor and provided with an air inlet and also with an air outlet communicating with the interior of said conduit member adjacent to said closed handle portion; a spring motor mounted on said handle portion comprising a coiled spring, a crank handle by means of which one end of said spring is wound up to store power in said spring and detent mechanism for maintaining said end in its wound up condition, a train of

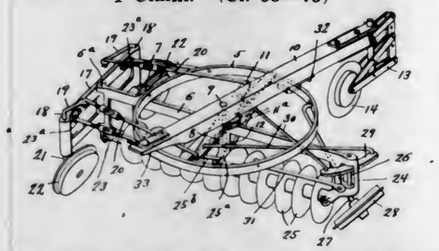
speed-up gearing supported by said handle portion through which the opposite end of said spring acts at times to rotate said fan rotor; brake mechanism normally engaging said fan rotor to hold the same at rest, said mechanism including a control member movably mounted on said handle portion in a position where it is accessible for operation by a hand of the operator by which said handle portion is grasped and said control member being manually adjusted in one direction to shift said brake mechanism out of engagement with said rotor, and a spring for shifting said brake mechanism in the opposite direction to stop said rotor when said control member is released by the operator.

2,158,745
CHAFF BALING ATTACHMENT FOR A HARVESTER
John M. Dalimata, Chester, Mont.
Application September 11, 1937, Serial No. 163,484
4 Claims. (Cl. 100—25)



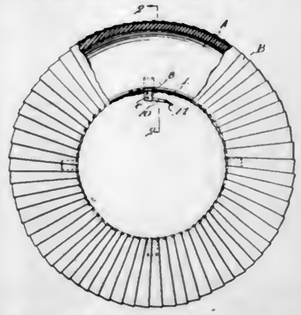
2. In a baling machine, a horizontally arranged casing, a plunger reciprocating in the casing, a hopper rising from the casing, a sliding door controlling communication between the hopper and the casing, a member pivotally connected with the door and in one position being out of the path of movement of the plunger, a pivoted member located in an opening in the hopper and normally extending into the hopper and pressed outwardly when a certain amount of material has been packed in the hopper, means for moving the pivoted member of the door into the path of the plunger by outward movement of the member extending into the hopper, whereby the plunger will open the door.

2,158,746
HARROW
Joseph Dinwiddie, Caneyville, Ky.
Application April 28, 1938, Serial No. 204,874
1 Claim. (Cl. 55—73)



A harrow comprising a frame, a cross bar secured to the frame, a draft beam rotatably mounted on the frame, stay wheels at the end of the bar, means operated by rotation of the beam on the frame changing the position of the said stay wheels, said means consisting of a rocker, mounts for the stay wheels, and connections between the rocker and the stay wheels for resetting the stay wheels when the draft beam is rotated on the frame to permit the machine to be pulled in an opposite direction.

2,158,747
TIRE WRAPPER REMOVING DEVICE
Andrew G. Doros, Elizabeth, N. J.
Application June 1, 1938, Serial No. 211,275
3 Claims. (Cl. 164—73)

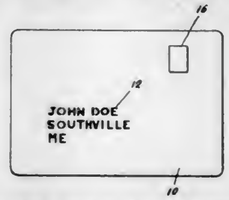


1. A tire wrapper removing device, comprising wrapper cutting means, guide means for the wrapper cutting means for disposal about the inner circumference of the tire and having the cutting means mounted thereon for slidable movement, means fixed to the guide means and including spring tongues for disposal in clamping engagement with the tire for securing the guide means thereto, said cutting means including a blade having an inclined beveled cutting edge, and a handle for the cutting means.

2,158,748
MANUFACTURE OF ELECTRICAL RECTIFIERS
Philip H. Dowling, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
No Drawing. Application December 27, 1937, Serial No. 181,993
13 Claims. (Cl. 175—366)

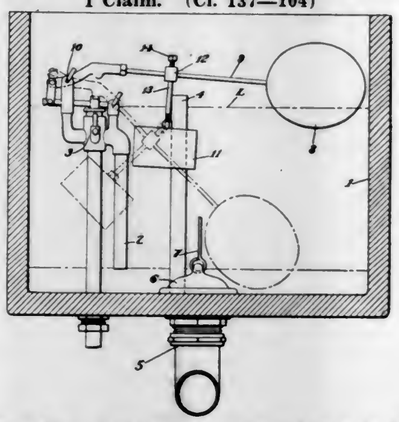
1. In the process of preparing rectifier elements, the steps for reducing creep which consist in forming on both sides of a copper blank a thin coating of cuprous oxide, and then removing this coating prior to subjecting the blank to a subsequent oxidizing process.

2,158,749
THIN PRINTING DEVICE FOR ADDRESSING MACHINES
Harmon P. Elliott, Watertown, Mass.
Application May 11, 1937, Serial No. 141,982
5 Claims. (Cl. 101—127)



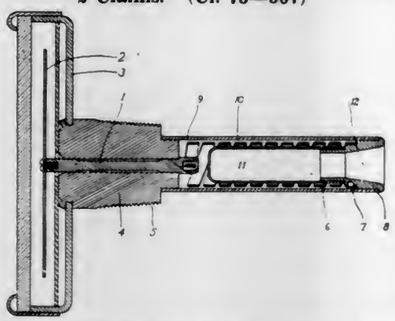
1. A printing device for addressing machines comprising a frame having means providing address-forming characters, and a selector-controlling member comprising an electrically-conducting metal film so thin that it is not inherently self supporting, said film being on and supported by and conformed to a face of said frame within the borders thereof.

2,158,750
FLUSH TANK CONTROL
Michael P. Flaherty, Quincy, Mass.
Application November 26, 1937, Serial No. 176,456
1 Claim. (Cl. 137—104)



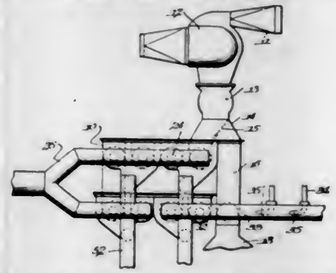
In a flush tank structure including a tank, a valve for controlling inlet of liquid to said tank, a pivoted arm operatively connected with said valve, a main float carried by said arm and upon which liquid, by rise of its level in the tank, acts to swing said arm to close said valve and to maintain said valve closed, and an auxiliary float carried by said arm and disposed to be submerged in the liquid and to exert a steadying force upon said arm during final closing movement of the valve and when the valve is maintained closed primarily by the buoyant action of the liquid upon the main float.

2,158,751
THERMOMETER
George E. Ford, Rochester, N. Y., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y., a corporation of New York
Application February 28, 1938, Serial No. 192,993
2 Claims. (Cl. 73—367)



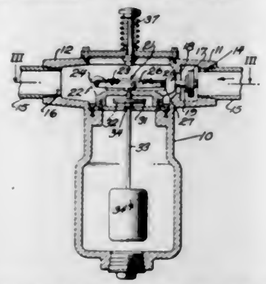
2. In a thermometer, the combination with a threaded bushing adapted to be secured in a receptacle, of an indicator shaft supported by and rotatable in said bushing, a housing comprising an outer cylindrical wall secured to said bushing, a head located within and secured to the outer end of said outer wall, said head having a reduced cylindrical inner end portion and an intermediate cylindrical portion between its ends, an inner cylindrical wall secured to the inner end of said head, and a temperature responsive helical coil having its outer end secured to said intermediate cylindrical portion of the head between the inner and outer walls and its inner end secured to said indicator shaft, the inner end of the inner cylindrical wall being closed and acting as a stop to limit endwise movement of the indicator shaft and said shaft being free to move into engagement with said stop.

2,158,752
COTTON DRYING AND CONDITIONING APPARATUS
Jesse J. Fowler, Eudora, Ark.
Application September 5, 1936, Serial No. 99,667
6 Claims. (Cl. 19—66)



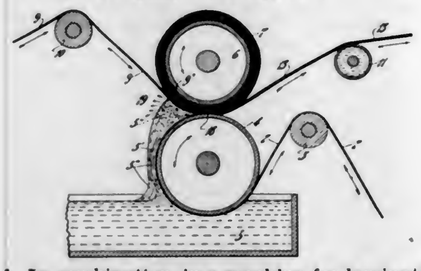
1. In a cotton drier and conditioner, a battery of connected screw conveyors for moving the cotton in a circuitous path, each screw provided with a flipper arm at one end for transferring the cotton to the next adjacent screw, each screw having a hollow perforated shaft with the perforations extending to that end of the screw to which the flipper arm is secured but terminating short of the other end, and means for passing a conditioning fluid through said shafts for conditioning the cotton and assisting in its transfer from one conveyor to the other.

2,158,753
EARTHQUAKE ACTUATED SHUT-OFF VALVE
Sidney H. Hansen, Berkeley, Calif.
Application April 7, 1937, Serial No. 135,482
3 Claims. (Cl. 137—139)



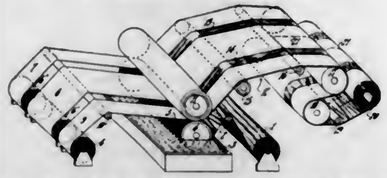
1. In a device of the character disclosed, the combination of a valve body having inlet and outlet ports, a valve member controlling one of said ports, a spring tending to close said valve, a toggle strut between said valve and said body normally disposed in extended position to maintain the valve in set open position, pendulum means universally mounted on said body, and toggle actuating means associated with said pendulum and said toggle and operative by movement of the body relative to said pendulum means to trip said toggle strut to permit said valve to close.

2,158,754
APPARATUS FOR THE MANUFACTURE OR PRODUCTION OF LAMINATED SHEET MATERIAL
Theodore A. Hodgdon, Whitingham, Vt.
Application August 25, 1936, Serial No. 97,733
3 Claims. (Cl. 154—37)



1. In combination, in a machine for laminating glassine paper, a pair of pressure rolls, a receptacle containing hot liquid wax at a temperature between 175°–190° F. in which one of said rolls is partially immersed, means for feeding two webs of glassine paper to said rolls in opposed relation to each other with one of said webs passing through said receptacle and around said immersed roll and separating said immersed roll from said wax, whereby, as the pressure rolls are driven, opposing surfaces of said glassine paper will be coated with hot wax adjacent the nip of the pressure rolls, an adjustable tension roll for imparting high tension to said immersed web of glassine for excluding the hot wax from between the immersed pressure roll and the web of glassine, whereby only one surface of the web passing through the receptacle will receive a coating of the wax.

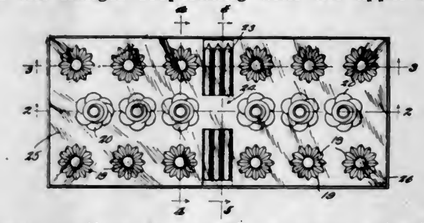
2,158,755
LAMINATED SHEET MATERIAL FOR USE IN MAKING PAPER BAGS OR WRAPPERS
Theodore A. Hodgdon, Wilbraham, Mass., and Paul E. Hodgdon, Readsboro, Vt.
Application September 16, 1936, Serial No. 101,098
3 Claims. (Cl. 154—46)



1. A laminated sheet comprising, a base member of transparent glassine, a transparent wax coating covering one surface, its opposite surface having a transparent wax coating thereon, opaque glassine strips secured to the second coating at the opposite side edges but spaced apart at the center portion of the base member, whereby the two coatings of transparent wax render the center portion more transparent.

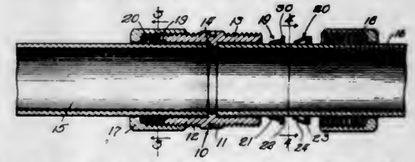
2,158,756
PACKAGE
Maxwell Knorpp, Brooklyn, N. Y., assignor to Knorpp Candy Company, Brooklyn, N. Y.
Application October 26, 1936, Serial No. 107,691
1 Claim. (Cl. 206—44)

A package including a single length of sheet material folded to provide spaced upper and lower holding portions having supporting sides, there being spaced pairs of alined slits in the upper holding portion at opposite sides of the center thereof providing spaced pairs of flanges downturned from the upper holding portion toward the lower holding portion, the flanges of each pair being alined with but spaced from the corresponding flanges of the other pair and all of the flanges cooperating with the upper and



lower portions to provide a space extending transversely between said portions and constituting a candle receptacle for holding candles parallel with the flanges, that portion of the upper holding portion between the slit flanges constituting a retaining band for extending over and transversely of the candles within the receptacle adjacent to the centers thereof, thereby to maintain the candles between the flanges.

2,158,757
COUPLING
Max Kuestermeier, Chicago, Ill., assignor to William J. Katzberg
Application July 11, 1938, Serial No. 218,686
5 Claims. (Cl. 285—196)

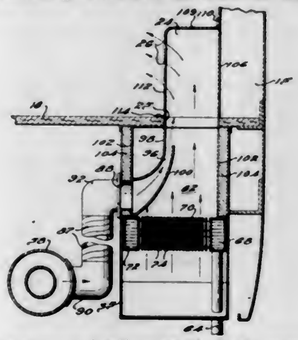


1. A coupling of the character described, including: a body member having a socket portion adapted to receive the end of a tube, a portion of the end of said socket sloping with respect to said tube; a nut in threaded engagement with said body member about the socket, said nut having an internal shoulder adapted to lie closely adjacent said tube; and a pair of spring metal rings adapted to encircle said tube and lie between the end of said socket and the shoulder on said nut, one of said rings having finger portions adapted to grippingly engage said tube when said nut is drawn up on said coupling, the construction and arrangement being such that when the nut is drawn up the rings are forced inwardly toward the pipe by the coaction between the nut and beveled socket portion, the other being adapted to provide a fluid-tight seal between said tube and said coupling.

2,158,758
APPARATUS FOR HEATING MOTOR VEHICLES
Alfred R. Lintern, Detroit, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application October 2, 1936, Serial No. 103,647
3 Claims. (Cl. 237—12.3)

3. In combination, an automotive vehicle having a closed body and an engine, a first conduit

forming an air confining passage therethrough including an exhaust heat exchanger which derives its source of heat from the exhaust products of the engine, a second conduit forming an air confining passage therethrough having located therein a water heat exchanger which derives its source of heat from the cooling system of the engine, said first and second named conduits being arranged in parallel, means forming a common air inlet conduit for said first and second conduits, means forming a common discharge conduit for said first and second conduits communicating with the interior of the body, a



member communicating said first conduit with said last named means beyond the region of communication of said second conduit with said last named means, said member being so constructed and arranged that the discharge of air from the second conduit creates a relatively low pressure within said last named means compared to the air pressure within the first conduit to assist the passage of air through said exhaust heat exchanger, and means to force air into the body through said pair of conduits and said first and second named means in heat exchange relation with said heat exchangers.

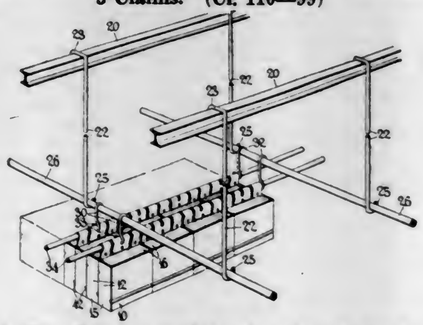
2,158,759

FURNACE ROOF CONSTRUCTION

Harry A. Morlock, Buffalo, N. Y.

Application September 21, 1937, Serial No. 164,897

5 Claims. (Cl. 110—99)



1. In a furnace roof construction, a plurality of rows of metallic canisters containing refractory elements, supporting structure disposed above the canisters, adjacent rows of canisters having thereon suspension elements substantially aligned with one another, and said supporting structure having means engaging the aligned suspension elements to support plural rows of canisters along a single suspension row of aligned suspension elements.

2,158,760

RUBBER HYDROHALIDES AND PROCESSES OF PREPARING THE SAME

Earle H. Morse, Nutley, N. J., and William S. Johnston, New York, and Edward L. Mack, Douglaston, N. Y., assignors to Reynolds Research Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 24, 1936, Serial No. 76,200

28 Claims. (Cl. 260—111)

1. In the process of preparing rubber hydrohalides, the method of preparing such rubber hydrohalides in precipitated form which comprises reacting the hydrogen halide with the rubber while the rubber is dissolved in a solvent for the rubber, in which a rubber hydrohalide is insoluble, continuing the reaction until the halogen content of the rubber hydrohalide being formed is such that the rubber hydrohalide becomes insoluble in the solvent, and precipitation occurs, and separating the precipitated rubber hydrohalide from the reaction solution.

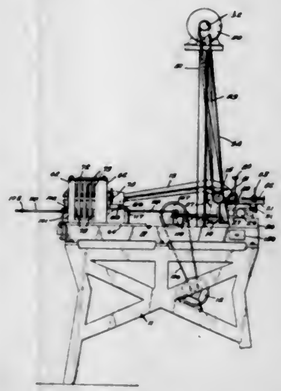
2,158,761

KEY CUTTING MACHINE

Phillip W. Olson, Grand Rapids, Mich., assignor to Automatic Instrument Company, a corporation of Michigan

Application March 25, 1937, Serial No. 132,936

38 Claims. (Cl. 90—13.05)



1. In a key cutting machine for flat key blanks, cutters at opposite sides of a key blank to engage opposite sides of a key at the same time, means to move a key and to vary the cut made by each cutter at opposite sides of a key as the cuts are made simultaneously.

2,158,762

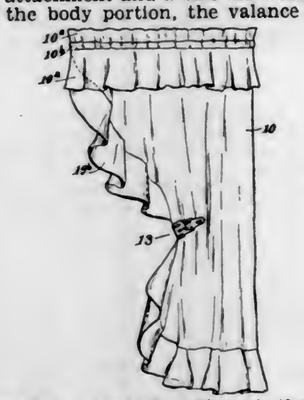
CURTAIN

Alma Esterly Phelan, Providence District, Va.

Application February 17, 1937, Serial No. 126,267

3 Claims. (Cl. 156—10)

3. A curtain for windows and the like comprising a body portion having a window-side edge, a bias-cut ruffle having a bias-cut edge attached to the body portion on the bottom edge of the curtain and extending along and attached to the edge of the body opposite to the window-side edge, the ruffle and body portions each having smooth portions adjacent to and throughout the line of attachment and a bias-cut valance at the top of the body portion, the valance and body



portions being smooth adjacent their line of attachment.

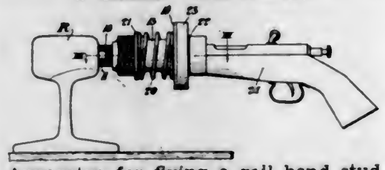
2,158,763

STUD APPLYING APPARATUS

Ernest J. Sabol, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application August 2, 1937, Serial No. 157,049

2 Claims. (Cl. 78—49)



1. Apparatus for fixing a rail bond stud terminal to a rail provided with a hole in which the stud of said terminal is fitted, including a member having an end constructed to fit about the head of said terminal opposite said stud and against said rail adjacent said hole, an opening being formed in said end so as to register with at least a portion of said head, and said member providing a passage leading to said opening, a cylinder revolubly mounting said member with said passage in axial alignment therewith, a piston in said cylinder, an impacting tool powered by said piston and extending toward said opening, said tool working in said passage and having an end for striking said end through said opening, and means for firing an explosive charge in said cylinder behind said piston, said apparatus having a relatively reciprocative holder and being provided with elastic means for restraining reciprocation of said apparatus respecting said holder, said elastic means functioning to absorb the recoil resulting when an explosive charge is fired in said cylinder behind said piston.

2,158,764

STETHOSCOPE

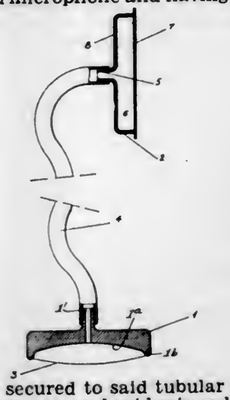
Silvio Silka, Paris, France

Application June 18, 1937, Serial No. 149,032

In France March 22, 1937

1 Claim. (Cl. 181—24)

A stethoscope comprising a solid body having a concave front face, a marginal lip on the periphery of said face a membrane carried by said lip and covering said front face, an integral tubular neck leading rearwardly from the center of said body, a microphone having a cup shaped housing open at both ends, a second integral tubular neck extending from the small end of said housing and a diaphragm bearing against and closing the large end of the housing, a flexible rubber tube of relatively small diameter extending between said solid body and said microphone and having its end por-



tions tightly secured to said tubular necks to reduce leakage losses, and said microphone housing having a minute unobstructed perforation therein, said perforation being spaced from the integral tubular neck and constituting a safety leak opening.

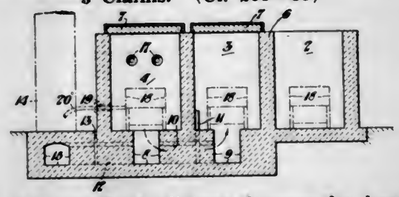
2,158,765

OVER-FIRED FURNACE

Peter Stewart, Boylston, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application November 17, 1937, Serial No. 175,123

3 Claims. (Cl. 263—39)



1. An over-fired pit-type furnace for heating articles having a cooling, a preheating and a main heating chamber and a hearth in the bottom of each of said chambers, each of the hearths in said preheating and main heating chambers having a longitudinally extending interconnected flue passageway positioned in and below the bottom thereof, said articles to be heated adapted to straddle said flue when the furnace is charged, means for firing said furnace positioned at one end of the main heating chamber above the articles to be heated whereby the heating gases therein are adapted to pass over, down through and around said articles in said main heating chamber into the flue passageway at the bottom thereof, thence into the flue passageway at the bottom of the preheating chamber, under and up through and around the articles therein and out of the furnace.

2,158,766

MEAT TENDERER

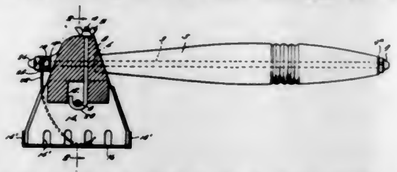
Richard Sybenga, Davenport, Iowa, assignor of one-half to Clair A. Olsen, Davenport, Iowa

Application February 14, 1938, Serial No. 190,505

3 Claims. (Cl. 17—30)

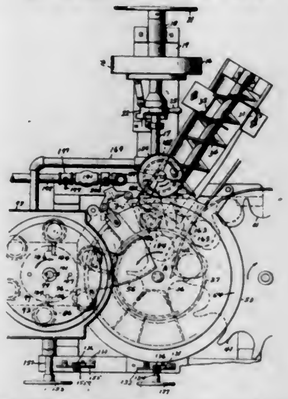
2. A device of the class described comprising a handle, an elongated head secured to the handle

crosswise, a plurality of cutting blades set into the bottom of the said head edgewise to extend transversely thereof and spaced apart longitudinally of the head, a combined pounding and stripping member including a flat grid-like plate fitting over said blades and having right-angled ends slidably mounted in the head whereby the member is movable independently of the blades under the impact of blows delivered by the device to strip the blades, means to secure said blades and member to the head comprising a pair of bolts extending downwardly through the head



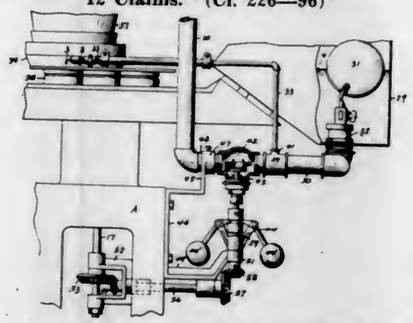
adjacent opposite ends thereof, respectively, and having hooked lower ends adapted to be drawn inwardly of the head, and a removable pin extending through said ends of the member and through said blades and hooked ends of the bolts, said blades and ends of the member being apertured for projection of the pin therethrough, the apertures in the ends of said member being elongated to provide for such sliding of said ends and independent movement of the member, and means to tension said member against independent movement comprising a leaf spring extending from the head and bearing against said plate.

2,158,767
CAN FILLING MACHINE
Charles H. Ayars, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a corporation of New Jersey
Application November 10, 1936, Serial No. 110,053
20 Claims. (Cl. 226—100)



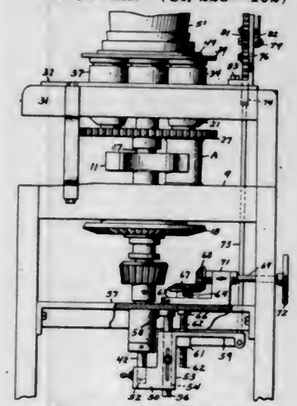
9. A can filling machine provided with means for feeding cans to rotary mechanism, an open liquid pot arranged to deposit a measured quantity of liquid to each can during its movement to said rotary mechanism, a hopper for discrete solid material, adjustable turret means arranged to measure and deposit a predetermined quantity of material from said hopper into each can during its rotary movement, a liquid tank having adjustable means thereon for measuring and depositing an additional quantity of liquid to each can during its rotary movement whereby the solids in the cans are completely covered by liquid, said liquid pot rotary means being operated by said turret means.

2,158,768
CAN FILLING MACHINE
Charles H. Ayars, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a corporation of New Jersey
Original application November 10, 1936, Serial No. 110,053. Divided and this application December 16, 1936, Serial No. 116,086
12 Claims. (Cl. 226—96)



1. A can filling machine for depositing measured quantities of solids and liquid into cans, comprising mechanism for feeding cans to be filled, a container for the solids, a container for the liquid, a conduit leading from said liquid container to a source of supply, and means associated with said conduit and operated by said can feeding mechanism for automatically opening said conduit when the machine is started and for closing same when the machine is stopped.

2,158,769
CAN FILLING MACHINE
Charles H. Ayars, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a corporation of New Jersey
Original application November 10, 1936, Serial No. 110,053. Divided and this application November 23, 1936, Serial No. 112,278
23 Claims. (Cl. 223—102)



1. A can filling machine having a measuring device comprising telescopic pockets, said device having a longitudinally slidable shaft for regulating the capacities of said telescopic pockets, and a dial having a finger rotated by the sliding of said shaft for indicating the capacities of said telescopic cups.

2,158,770
CONVERSION UNIT
Harry D. Bartlett, Delavan, Wis., assignor of one-half to David W. Thompson, Elkhorn, Wis.
Application December 21, 1936, Serial No. 116,941
5 Claims. (Cl. 131—51)



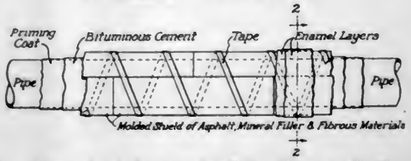
1. A receptacle assembly for smoker's refuse, comprising a can having a closed lower end and a restricted opening in its upper end, one edge of the opening having a flange projecting into the can, said restricted opening and flange precluding ready removal of refuse from the can whereby the can is not susceptible of prolonged use for refuse, an apertured tray engaging the upper end of the can in registration with said opening, and resilient means carried by the tray and releasably engaging the can permitting removal and replacement of the can.

2,158,771
MEANS FOR PREVENTING CORROSION OF METALLIC OBJECTS
Lawton B. Beckwith, San Pedro, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application March 31, 1936, Serial No. 71,922
4 Claims. (Cl. 154—43)



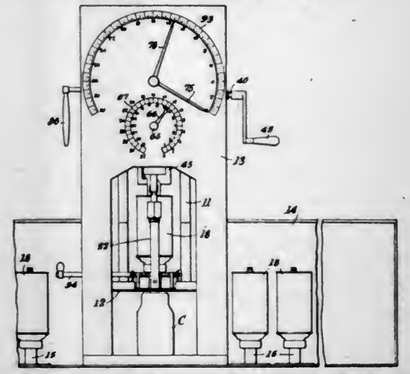
1. A coated metallic pipe for use in underground service which comprises a metallic pipe, a layer of asphalt having a melting point of about 190° F.–200° F. adjacent said pipe and a layer of asphalt having a melting point of about 235° F.–250° F. over said first mentioned layer of asphalt, said asphalt of about 190° F. to 200° F. melting point having adhesive, waterproofing and corrosion preventing properties and said asphalt of about 235° F. to 250° F. melting point affording great resistance to mechanical action of soil.

2,158,772
ASPHALTIC COATING AND METHOD FOR PROTECTING PIPE LINES WITH SAME
Lawton B. Beckwith, San Pedro, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application December 2, 1933, Serial No. 700,707
Renewed April 18, 1938
5 Claims. (Cl. 154—2)



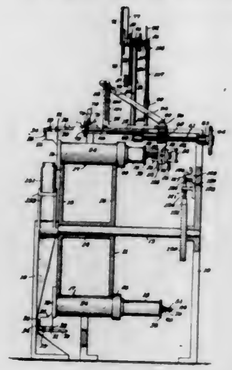
1. A method for protecting pipe against corrosion which comprises coating said pipe with hot bituminous cement, placing preformed hollow half-cylindrical shields containing a mixture of asphalt, finely divided mineral filler and fibrous materials on said pipe to completely cover said pipe and subsequently coating said half cylindrical shields with asphalt.

2,158,773
DEVICE FOR DISPENSING AND MIXING PAINT AND THE LIKE
Nicholas Grubelic, Great Neck, N. Y.
Application March 19, 1935, Serial No. 11,893
Renewed February 8, 1939
25 Claims. (Cl. 221—103)



1. A machine for mixing a predetermined quantity of paint comprising a removable paint holder, a paint receiving chamber associated therewith, reciprocatory means for withdrawing paint from said holder into the receiving chamber and for discharging the paint from said chamber into a collecting container, means for controlling the amount of paint so withdrawn and so discharged comprising means for indicating the number of strokes of said reciprocatory means to correspond to the number of measuring units in the total quantity of mixed paint desired, means for indicating and predetermining the length of each stroke of said reciprocatory means and thereby to predetermine the fractional part of said total amount withdrawn at each stroke in accordance with the ratio of the quantity of the paint of one color withdrawn from the container to the total quantity of mixed paint, and means for rendering inoperative the reciprocatory means upon removal of the predetermined proportioned quantity of paint from said holder.

2,158,774
PAINT DISPENSING MACHINE
Nicholas Grubelic, Great Neck, N. Y.
Application October 15, 1937, Serial No. 169,093
28 Claims. (Cl. 221—96)



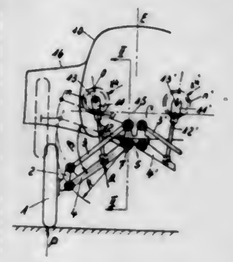
1. In a machine for proportioning standard-color paints to produce a predetermined total quantity of paint of a mixed color, said quantity being different from that given by a formula for the mixed color paint, a container for standard-color paint provided with a discharge opening adapted also for use as an inlet opening, a piston within the container, means for supporting the container in position for movement of the piston therein, means for moving the piston in one direction to discharge paint from the container and in the other direction when paint is supplied to the container opening to draw said paint into the container, means spaced from the container and out of contact at all times with said paint for measuring and indicating the discharge movement of the piston in said one direction including a movable pointer and a scale, means for operatively connecting the piston moving means with said measuring and indicating means, and means for adjusting the connecting means for varying the movement of said pointer relatively to the discharge movement of the piston in said one direction in accordance with the differences in the total quantities of mixed paint desired.

2,158,775
CAKE BATTER AND SHORTENING FOR MAKING CAKE
Benjamin R. Harris, Chicago, Ill., assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application December 16, 1935, Serial No. 54,785
6 Claims. (Cl. 99—92)

1. A cake batter emulsion including flour, sugar, shortening and aqueous material, and having as a constituent thereof a sulphated triglyceride of molecular formula having at least one sulphate group attached to a carbon at a double bond of an unsaturated fatty acid radical and having at least one fatty acid radical without a hydrophylic substituent.

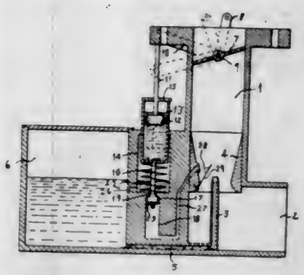
2. An improved dry shortening having, as a constituent thereof, a sulphated triglyceride of molecular formula having at least one sulphate group attached to a carbon at a double bond of an unsaturated fatty acid radical and having at least one fatty acid radical without a hydrophylic substituent.

2,158,776
WHEEL SUPPORTING MEANS FOR VEHICLES
Karl Rabe, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Application May 13, 1936, Serial No. 79,451
In Germany November 2, 1934
8 Claims. (Cl. 244—102)



1. In combination, a frame, a ground engaging means, a torsion bar connecting said frame to said ground engaging means, and means for rotating one end of said torsion bar about its axis in such a manner that said frame is supported upon said ground engaging means or said ground engaging means is supported from said frame.

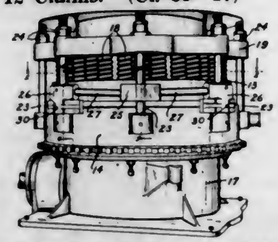
2,158,777
CARBURETOR
Harold G. Renner, Detroit, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Missouri
Application October 17, 1928, Serial No. 313,152
Renewed April 3, 1933
22 Claims. (Cl. 261—34)



2. The combination with a throttle-controlled carburetor comprising a mixing chamber, of an accelerating device, comprising a fuel pump having a discharge connection to said mixing chamber, a dash-pot establishing an actuating connection to said pump from said throttle, employing a liquid characterized by a marked increase of its viscosity responsive to lowering of its temperature.

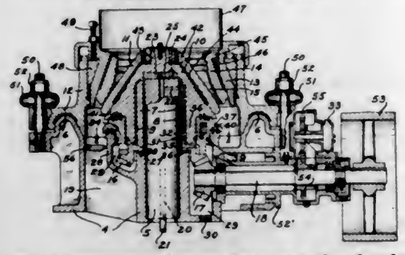
11. In a carburetor, means forming a mixing conduit, a throttle valve controlling said mixing conduit, normal fuel supply means for said mixing conduit, auxiliary fuel supply means for said mixing conduit, means for operating said auxiliary fuel supply means in response to opening movements of said throttle, and a pressure operated device for cutting off said auxiliary fuel supply means.

2,158,778
CRUSHER
Harvey H. Rumpel, Milwaukee, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a corporation of Wisconsin
Application January 30, 1937, Serial No. 123,210
12 Claims. (Cl. 83—10)



1. In a crusher, a gyratory crusher head, a normally fixed concave cooperating with said head to form a crushing chamber, a support for said concave, resilient means for urging said concave against said support and toward said chamber, and a strut disposed externally and tangentially of said concave and having its opposite ends hingedly cooperable with said support and said concave, said strut being tiltable to relieve said resilient means from forces tending to rotate said concave and to transmit said forces directly from said concave to said support during flexing of said resilient means.

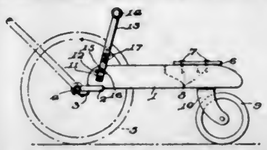
2,158,779
CRUSHER
Harvey H. Rumpel, Milwaukee, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a corporation of Wisconsin
Application June 10, 1937, Serial No. 147,449
5 Claims. (Cl. 83—10)



1. In a crusher, a frame having a fixed column surrounded near its base by a thrust bearing, a concave carried by said frame and having an internal tapered crushing surface surrounding and spaced from the upper portion of said column, an eccentric journalled on said column within said concave surface and having its weight supported solely by said bearing, and a head having an external tapered crushing surface cooperating with said concave surface to form a downwardly and outwardly flaring crushing chamber, said head being gyratable by and freely rotatable about said eccentric and also being spaced from the upper end of said eccentric and having its weight supported solely by the top of said fixed column.

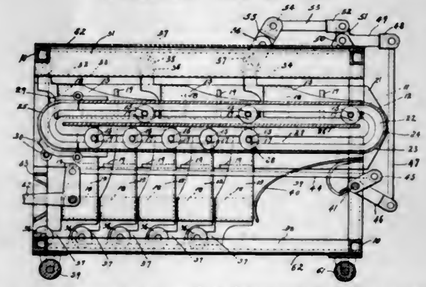
2,158,780
VEHICLE
Lawrence E. Vogt, Lansdowne, Pa.
Application April 26, 1937, Serial No. 139,056
5 Claims. (Cl. 280—204)

1. The combination of a tricycle having two rear wheels and a connecting axle, with a trailer comprising a narrow substantially central longitudinal body member, means extending in opposite directions laterally beyond and operative to detachably connect the forward portion of said member to laterally spaced portions of the tri-



cycle axle, to insure lateral rigidity of said trailer with respect to said tricycle, and a trailing wheel support carried by the rear portion of said body member, pivotally mounted to oscillate about a substantially vertical axis.

2,158,781
CONVEYING MECHANISM
Floyd A. Browne, Cleveland, Ohio, assignor of one-half to J. D. Overholt, Wooster, Ohio
Application September 6, 1938, Serial No. 228,615
3 Claims. (Cl. 198—1)

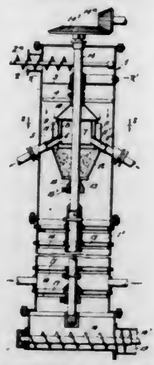


1. A conveying mechanism comprising a supporting structure, oppositely arranged longitudinally extending means having an orbital course therein mounted in the structure, a longitudinally extending flanged guiding means intermediate the aforesaid means having an interruption in the flanges thereof, a longitudinally extending lower guiding means positioned below the flanged guiding means at the bottom of the structure, a plurality of receptacles, a plurality of shafts, each receptacle being supported by an individual shaft, rollers carried on each end of each shaft and mounted in the oppositely arranged longitudinally extending means having the orbital course therein, a carriage integral with the receptacle having plural rollers adapted to support the receptacle in the horizontal plane when mounted in the flanged longitudinally extending means, and being further adapted to ensure rectilinear movement of the receptacle in the vertical position, manually operable means frictionally-engaging a receptacle and adapted to move the receptacle in the vertical plane, and being further adapted to cushion the impact of a released receptacle after the receptacle has been released from the flanged guiding means through the interruption therein said manually operable means retaining the receptacle by means under its control.

2,158,782
APPARATUS FOR FEEDING COUNTER-CURRENT EXTRACTION UNITS
Michele Bonotto, Evansville, Ind., assignor to Extractol Process, Ltd., Wilmington, Del., a corporation of Delaware
Application December 9, 1937, Serial No. 178,835
4 Claims. (Cl. 87—6)

1. Apparatus for feeding counter-current ex-

traction units embodying an extraction tank having an extraction zone, a feed inlet for solid material at one end, a supply inlet for solvent at the opposite end and a miscella-outlet between



the extraction zone and the feed inlet, a material-diverting wall forming a chamber surrounding said miscella-outlet, and means connected with said chamber for retarding the speed of material passing therethrough.

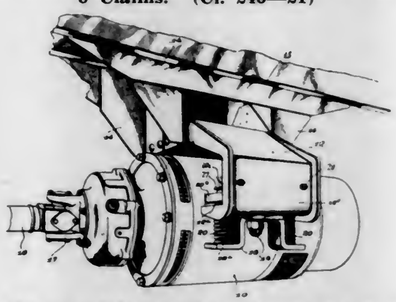
2,158,783

SUPPORT

Albert G. Dean, Narberth, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 28, 1937, Serial No. 161,368

8 Claims. (Cl. 248—21)



1. A support for a rotary device having projecting legs which comprises, a depending hanger having ledges extending inwardly toward each other under said legs, means secured to said hanger ledges and forming spring seats spaced below said ledges, and springs supported from said spring seats and normally supporting the legs of said rotary device in spaced relation above said ledges.

2,158,784

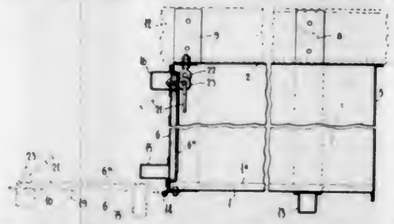
BATTERY BOX

Albert G. Dean, Narberth, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 12, 1938, Serial No. 195,527

6 Claims. (Cl. 105—51)

1. A battery box having means for suspending it from a suitable support, and provided at one side with a door, and hinge means pivotally connecting the lower edge of said door to the box, to swing about a substantially horizontal axis, said hinge means being distributed along the length of the door, and a reinforcing beam extending along the door body adjacent the hinge whereby the load on the bottom of the box is



transmitted through said hinge means to said door, which door, when closed, serves as a load supporting girder.

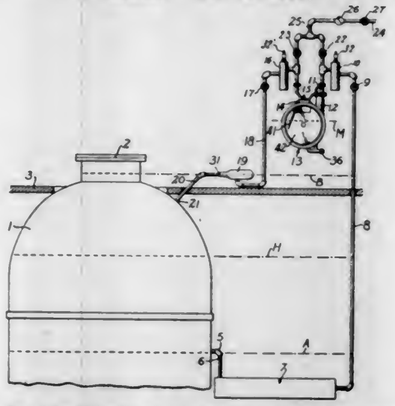
2,158,785

LIQUID LEVEL INDICATOR

Malcolm B. Hall, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts

Application October 10, 1936, Serial No. 104,927

5 Claims. (Cl. 73—302)



1. In apparatus for measuring and recording the level of a liquid in a tank containing chemically active liquid and vapors, in combination, a differential pressure measuring and recording instrument of the manometer type having high and low pressure legs, one of the legs having a relatively large cross-sectional area and a float in said leg for operating a recording mechanism, first pipe means connecting the high pressure leg with said tank at a point near the top thereof, second pipe means connecting the other leg to said tank at a second point lower down thereon, said pipe means having a common connection with a water supply, valve means in said pipe means for separately admitting fresh water to said respective pipe means for flushing the same, means in said first pipe means interposed between said tank and said instrument providing a body of liquid automatically maintained at a constant level to provide a standard reference level for said instrument, and means in said second pipe means interposed between said tank and said instrument providing a relatively large body of water as a water seal to forestall migration of the chemically active liquid in said tank through said pipe means to said instrument due to movement of liquid in said pipe means caused by changes in differential pressure.

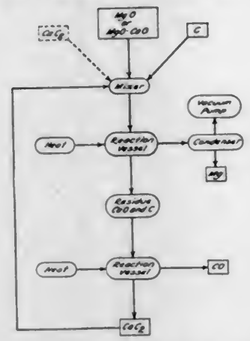
2,158,786

METHOD OF PRODUCING MAGNESIUM

Roy C. Kirk, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application April 27, 1938, Serial No. 204,516

8 Claims. (Cl. 75—67)



1. In a method of producing magnesium by thermal reduction of a material comprising its oxide employing calcium carbide as the reducing agent, the steps which comprise mixing the material to be reduced with calcium carbide and carbon in the approximate proportions of 1 mole of carbon and at least 1 mole of calcium carbide per mole of magnesium oxide in said material, and heating the mixture to a temperature capable of liberating magnesium vapor but below that substantially liberating carbon monoxide, whereby a residue is obtained containing calcium oxide and carbon suitable for producing calcium carbide upon further heating.

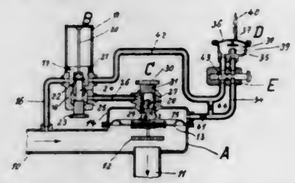
2,158,787

GAS VALVE AND CONTROLLING ARRANGEMENT THEREFOR

Werner Lorenz, Frankfort-on-the-Oder, and Curt Steinhardt, Dessau, Germany, assignors to Junkers & Co. G. m. b. H., Dessau, Germany

Application May 5, 1937, Serial No. 140,990. In Germany, Great Britain, and Belgium May 8, 1936

5 Claims. (Cl. 137—153)



1. A control valve apparatus for gas-burners and the like, comprising a main gas conduit, a main gas valve arranged to control the flow of gas through said conduit, a pressure-actuated movable member connected to and arranged to adjust said main gas valve, a safety control valve and connections therefore arranged to cause a fluid pressure on that side of said movable member which will actuate it to close the main valve upon closing of said safety control valve, a regulator valve and connections therefor arranged to vary the pressure on one side of said movable member to adjust the position of the main gas valve, and an auxiliary control valve and connections therefore arranged to move responsive to variations in position of said movable member, to bring said movable member to a position of equilibrium with the gas valve still open, and thereby to prevent the regulating valve alone from completely closing the main gas valve.

2,158,788

OESTRUS-PROMOTING SUBSTANCE FROM THE ANTERIOR LOBES OF THE HYPOPHYSIS AND A PROCESS OF PREPARING IT

Willy Ludwig, Frankfort-on-the-Main-Hochst, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application August 7, 1936, Serial No. 94,877. In Germany August 8, 1935

3 Claims. (Cl. 167—74)

1. Process of preparing an oestrus-promoting substance from the anterior lobe of the hypophysis which comprises extracting fresh anterior lobe of the hypophysis at a temperature not exceeding 60° C. several times with the aid of an organic solvent miscible with water in which the oestrus-promoting substance is insoluble, extracting the remaining gland residue with an aqueous solvent in which the oestrus-promoting substance is soluble, precipitating the aqueous extract with a lower aliphatic alcohol at a pH-value of about 6 to 8, extracting the resultant precipitate at a feebly alkaline reaction with an aqueous solvent in which the oestrus-promoting substance is soluble and again precipitating from the solution obtained the active substances with the aid of a lower aliphatic alcohol, dissolving the precipitate produced in an aqueous solvent of the group consisting of water and physiological salt solution, freezing the solution and drying it.

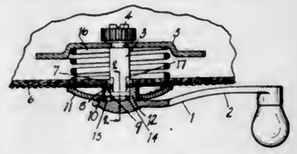
2,158,789

HANDLE MOUNTING FOR WINDOW OPERATING MEANS AND THE LIKE

Michael B. Andrie, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich.

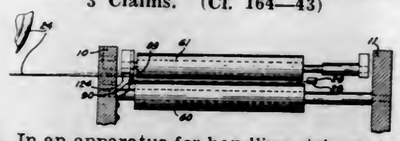
Application June 22, 1938, Serial No. 215,208

18 Claims. (Cl. 292—348)



1. A handle assembly comprising a rotatable spindle, a handle, and means for securing said spindle and handle together comprising a collar slidable axially of the spindle, said handle having a shank thereon, said collar being adapted for sliding telescoping engagement with the shank, said shank being provided with a lateral slot adapted to engage the spindle by transverse relative movement of the shank and spindle to bring the shank and collar into axial alinement, a pair of inward extending elongated lugs in said slot, said spindle having recesses formed on opposite sides thereof for engagement by said lugs to restrain the handle and spindle from relative axial movement, and means for resiliently urging said collar axially into telescoping engagement with said shank after engagement of the handle and spindle to retain the same from disengagement.

2,158,790
APPARATUS FOR HANDLING STRIP MATERIAL
Harry J. Arthur, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 15, 1937, Serial No. 142,823
3 Claims. (Cl. 164—43)

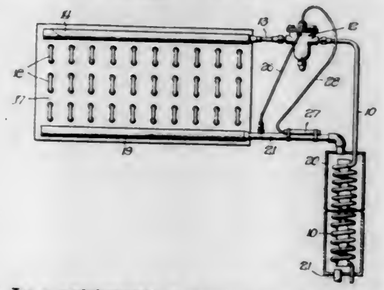


1. In an apparatus for handling strip material, a supply roll containing a continuous length of strip material, reciprocatory means for intermittently gripping and longitudinally advancing an end portion of the continuous length of strip material along a horizontal path, means for severing the advanced portions, and strip material guiding means comprising a transversely curved guide passage in line with said path through which the material is advanced before being severed, said guiding means being positioned with respect to said severing means so that after each severing operation a transversely curved end portion of the remaining continuous length of strip material extends from said guide passage along said path to be grasped by the said reciprocatory means.

2,158,791
HAIR TONIC
Domenico Caimi and Agostino Caimi, Philadelphia, Pa.
No Drawing. Application July 12, 1937, Serial No. 153,202
2 Claims. (Cl. 167—87)

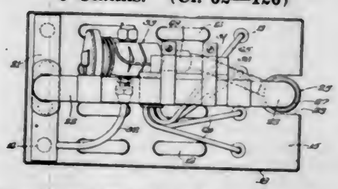
2. A hair tonic comprising alcohol, olive oil and kerosene, the kerosene being present in an amount sufficient to miscibilize the alcohol and olive oil to form a permanently clear solution.

2,158,792
HEADER FEED EVAPORATOR
Fred R. Erbach, Beloit, Wis., assignor to General Refrigeration Corporation, Beloit, Wis., a corporation of Delaware
Application December 7, 1934, Serial No. 756,470
8 Claims. (Cl. 62—115)



8. In a refrigerating system, in combination, a plurality of evaporators each including at least one cooling coil, a distributor header for distributing liquid refrigerant to said evaporators, an expansion valve connecting with said header and delivering liquid refrigerant thereto, a flow resistance passage for each evaporator and which connects the cooling coil thereof with the header, means supplying said expansion valve with liquid refrigerant, and other means forming part of the suction line of the refrigerating system and utilizing the cool refrigerant gas flowing through the same for cooling the liquid refrigerant in said first mentioned means prior to supplying the same to the valve, whereby said flow resistant passages maintain the liquid refrigerant within the header at a relatively high pressure which in conjunction with the precooling of the refrigerant prevents evaporation within the header.

2,158,793
REFRIGERATING APPARATUS
Fred R. Erbach and Richard H. Swart, Beloit, Wis., assignors to General Refrigeration Corporation, Beloit, Wis., a corporation of Delaware
Application March 10, 1937, Serial No. 130,028
5 Claims. (Cl. 62—126)



3. In refrigerating apparatus, in combination, evaporator structure including a plurality of elements, a plurality of fins joining said elements together to form a unit, an expansion valve located at one end of said evaporator structure and constructed and arranged to feed liquid refrigerant to said evaporator elements, a suction header joining the other end of said evaporator elements, a suction conduit joining with said suction header and extending along one side of said evaporator structure, the end fins thereof having a recess formed therein for receiving said suction conduit, and a heat interchanger surrounding said suction conduit and extending along that portion thereof located on said side of the evaporator structure.

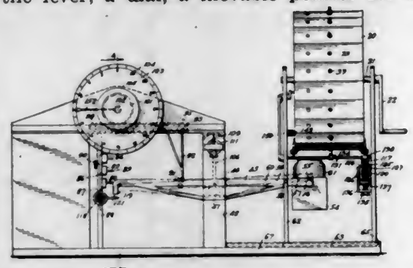
2,158,794
FISHHOOK
Leo J. Eppel, Minneapolis, Minn.
Application May 9, 1938, Serial No. 206,845
5 Claims. (Cl. 43—40)



1 A fishhook having a bait-holding rack comprising an intermediate member and a pair of converging side members, said intermediate member extending transversely of the shank of said hook and supported therefrom, said side members extending from the outer ends of the intermediate member to said shank and secured relative thereto.

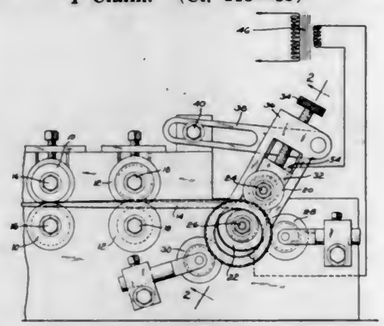
2,158,795
AUTOMATIC WEIGHING MACHINE FOR DISPENSING AND MIXING PAINT
Nicholas Grubelic, Great Neck, N. Y.
Application August 11, 1936, Serial No. 95,355
17 Claims. (Cl. 249—14)

1. In a machine for dispensing in succession paints of standard colors to make up a total quantity of mixed paint in accordance with a formula giving a different total quantity of such mixed paint, a weighing lever, means for indicating a total amount of paint required by indicating the position of a force applied to one end of the lever, a dial, a movable pointer for the



dial, manually operated means for controlling the setting of the pointer on the dial and for controlling the unbalancing force put upon the lever, and means controlled by the lever for controlling the discharge of paint from a paint container.

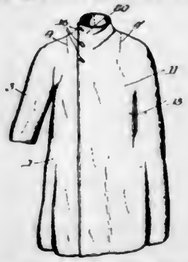
2,158,796
MANUFACTURE OF TUBING
Clayton C. Harrah, Niles, Mich., assignor to National Standard Company, Niles, Mich., a corporation of Michigan
Application January 21, 1935, Serial No. 2,647
1 Claim. (Cl. 113—35)



That method of making corrugated tubing which comprises winding a longitudinally corrugated strip helically with the margins of adjacent convolutions overlapping each other and with bonding material between said overlapping margins and, in the winding operation, stretching the metal of said overlapping margins to provide a close joint and compressing said margins, and heating the overlapping margins substantially at the same time as the stretching and while said margins are under compression due to said winding operation to cause said bonding material to form a continuous permanent joint between said margins.

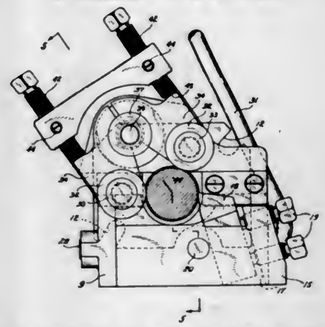
2,158,797
GARMENT
Roy W. Hill, Chicago, Ill.
Application April 2, 1938, Serial No. 199,598
7 Claims. (Cl. 2—87)

1. A single sleeved garment consisting of a pair of similar shoulder portions, a sleeve arranged wholly outside of the garment and depending from one of said portions at one side of the garment, the other side of the garment being sleeveless, and a body encircling portion depending from the sleeveless portion, and extended from the front around the side and back thereof,



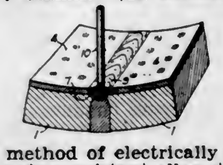
and then depending from the back of said other sleeved shoulder portion, the sleeve and at the front of said last mentioned shoulder portion, respectively.

2,158,798
TURNING TOOL FOR LATHES OR THE LIKE
Max E. Lange, Cleveland Heights, and James R. Longstreet, Bedford, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application September 3, 1935, Serial No. 38,864
Renewed March 7, 1938
18 Claims. (Cl. 82—35)



1. In a turning tool for lathes or the like, a body having an opening, a cutting tool, thrust resisting members having portions arranged in said opening, and means for spreading said portions in said opening to clamp said thrust resisting members and including conical surfaces on said portions, a conical washer and a conical nut cooperating with said surfaces and a screw for moving said nut and washer relatively towards or away from each other.

2,158,799
METHOD OF WELDING
Louis J. Larson, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 4, 1936, Serial No. 67,142
7 Claims. (Cl. 219—10)



6. In the method of electrically arc welding a sheet of corrosion-resistant alloy steel to a back-

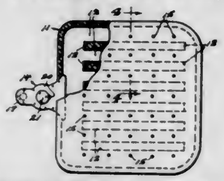
ing plate of carbon steel by depositing fused weld metal in a groove formed by the steep plate and the edges of the corrosion-resistant alloy sheet, the improvement which comprises partially filling said groove with weld metal deposited from a fusible metallic electrode having an alloy content from 30% to 60% greater than the alloy content of the corrosion-resistant alloy sheet, and thereafter depositing in said partially filled groove weld metal from a fusible metallic electrode of approximately the same composition as the corrosion-resistant alloy sheet.

2,158,800
HAIR-WAVING APPARATUS
Ragnvald G. Leland, New York, N. Y.
Application March 10, 1938, Serial No. 195,069
5 Claims. (Cl. 132—33)



1. A hair waving apparatus including a forming bar, a clip member slidingly and rotatably mounted on said forming bar adapted to guide a strand of hair as it is wound on the forming bar and also hold the wound hair in place after having been wound, said clip member including a tubular part encircling said forming bar, a pair of resilient winding arms extending from one end of said tubular part, said arms being bowed away from said forming bar to accommodate the end turns of said strand of hair for holding said strand against unwinding, a clip turning member for turning said clip member, means carried by said clip turning member for guiding said strand of hair during the winding thereof, and means connected with said clip turning member for rotating the same.

2,158,801
VENTILATED SEAT FOR VEHICLES
Charles J. Petterson, Pasco, Wash.
Application January 31, 1936, Serial No. 61,643
2 Claims. (Cl. 98—2)



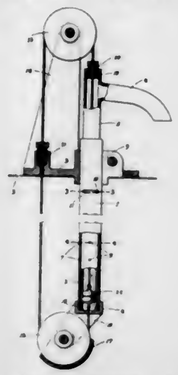
2. A seat cushion for the occupant of a vehicle comprised of a flexible chambered member provided with an opening thereto operative to receive a connection leading from a pressure source of air supply and having the side, end, and bottom walls otherwise imperforate, the cushion, within the chamber, providing a plurality of resilient ribs lying in spaced relation for opposing the depressing influence of an occupant's weight and having the upper sustaining wall formed with a multiplicity of outlet ducts leading from the several cells formed between the ribs for venting the pressure body of air fed into the cushion through the admission opening.

2,158,802
PIPE HANGER
Osgood M. Redlon, Bath, Maine
Application April 19, 1938, Serial No. 202,848
5 Claims. (Cl. 248—62)



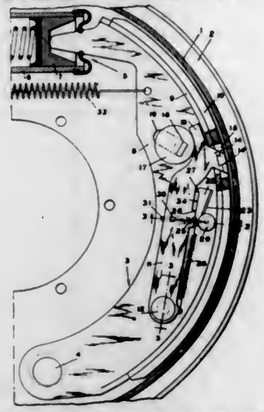
1. A pipe hanger comprising a standard, a fitting slidingly mounted on the end of said standard, a flexible deformable metal strap extending through said fitting in position to encircle a pipe, and clamping screws carried by the fitting for deforming parts of said strap for clamping the strap in position and simultaneously securing the fitting rigidly to said standard.

2,158,803
OIL SAMPLER
Thomas L. Renfro, Taft, Calif., assignor of one-half to William H. Nicholson, Taft, Calif.
Application April 8, 1938, Serial No. 200,971
11 Claims. (Cl. 137—18)



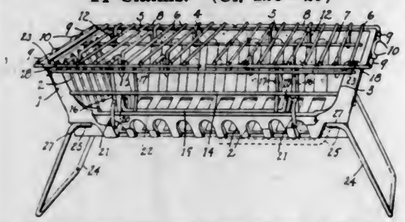
1. A device for removing a representative sample of fluid from a tank, said device comprising a cylinder adapted to depend into the fluid from above, a casing in which the cylinder is turnable, both the casing and cylinder having a longitudinal row of ports therethrough and in position to register when the casing and cylinder are in predetermined relative position, these ports when in register providing access of the fluid into the cylinder, a piston slidably disposed in the cylinder, and means to reciprocate the piston in the cylinder; there being a fluid discharge member extending from the cylinder above the fluid level.

2,158,804
AUTOMATIC BRAKE SHOE WEAR COMPENSATING MEANS
Steve Schnell, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application May 16, 1938, Serial No. 208,115
4 Claims. (Cl. 188—79.5)



1. In braking apparatus, a support, a brake drum, a brake shoe provided with lining for cooperation with the drum, means for actuating the brake shoe, a member pivoted to the shoe and having a portion adapted to engage the drum only when the shoe is actuated to engage the lining with the drum, said portion having a less rate of wear than the lining whereby the member will be moved as the lining wears, an adjustable stop fixed to the support and adapted to be engaged by the pivoted member when the shoe and lining is moved away from the drum, a sliding wedge cooperating with the pivoted member and the shoe, and spring means for moving said wedge in order to maintain the pivoted member in the position it assumes as a result of its movement as the lining wears to thereby maintain the surface of the lining which cooperates with the drum a predetermined distance from the center of the drum.

2,158,805
PORTABLE COOKING STOVE
Benjamin H. Smith, Niles, Mich., assignor to Michigan Wire Goods Company, Niles, Mich.
Application January 28, 1938, Serial No. 187,399
14 Claims. (Cl. 126—29)



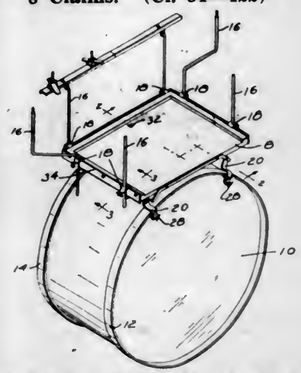
1. In a portable cooking stove, a fuel basket having an open side providing a charging opening, grid members pivoted to opposite ends of said fuel basket and adapted to be swung to a horizontal position over the same or swung to an upright position to provide utensil supports, a closure for said charging opening of wire construction mounted for pivotal and lateral adjustment on said fuel basket, means on said closure to secure the same in closing position, and means on said closure for supporting the same in another position relative to said fuel basket whereby to constitute a hearth therefor.

2,158,806
SMOKER'S STAND
John F. Vonick, Bridgeport, Conn.
Application June 3, 1936, Serial No. 83,248
1 Claim. (Cl. 131—51)



A smoker's stand comprising a base, a supporting member extending upwardly from said base, said member having a longitudinal aperture and vertical side parts, a pin extending across said aperture and supported in said side parts, a bearing spacing said side parts and mounted on said pin, and an ash tray holder secured to said bearing and having a major portion of a body configuration normally positioned on one side of said member and a minor portion of said configuration and the remainder of said holder on the opposite side of said member, an upper face of said holder being recessed to retain an ash tray therein, and said ash tray, the remainder of said holder and minor portion of said configuration counterbalancing said major portion of said configuration.

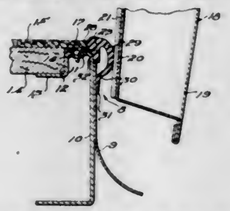
2,158,807
TRAP TABLE
George H. Way, Elkhart, Ind., assignor to C. G. Conn Ltd., Elkhart, Ind., a corporation of Indiana
Application August 29, 1938, Serial No. 227,240
8 Claims. (Cl. 84—422)



1. A trap table having clamping means constructed and arranged to grip a drum hoop for supporting it horizontally on a bass drum and

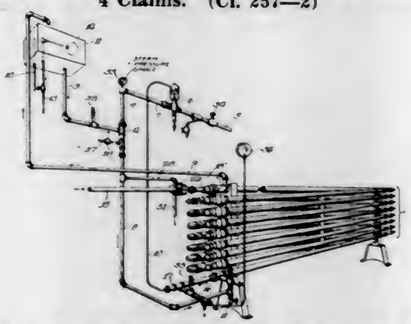
which is provided at its periphery with a side rail extending above and below the table, in combination with a trap support comprising a vertical post, a generally C-shaped clamp member extending vertically across the outer face of said rail and having at its upper and lower ends parts hooked over the upwardly and downwardly projecting portions of said side rail and formed with vertically alined openings through which said post passes between the outer face of said side rail and the inner face of the clamp member, and a clamp screw threaded through the clamp member and engaging said post at its end and operable to clamp said post against vertical movement and simultaneously to fix the clamp member in place on said side rail.

2,158,808
SEALING STRIP
Edward A. Wetzel, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application April 24, 1937, Serial No. 138,711
4 Claims. (Cl. 296—44)



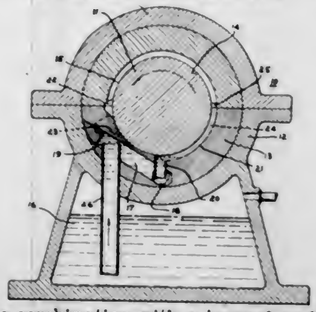
1. In a vehicle body having a sill and a door, a compressible sealing strip carried by said sill, said strip having a body portion, a substantially horizontal flange overlying the sill and a depending portion interposed between the sill and door and engaged by the door when in closed position, said depending portion terminating in a lip engaging the vehicle body below the sill, and a metal strip embedded in said flange and providing means for attaching the sealing strip to the sill.

2,158,809
HEAT EXCHANGER
John C. White, Madison, Wis.
Application March 3, 1937, Serial No. 128,719
4 Claims. (Cl. 257—2)



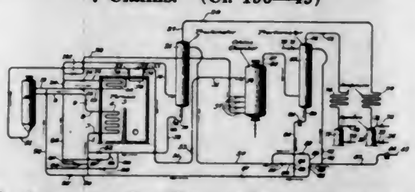
1. In a continuous flow heat exchange apparatus for heating a stream of liquid by means of a heated stream of water, an injector utilizing steam for heating and propelling a stream of water through the apparatus, a valve for regulating the steam supplied to the injector thermostatically controlled by the temperature of said liquid emerging from the apparatus, and means controlled by the pressure of the liquid entering the apparatus for diverting at least a portion of the injected stream of water from the apparatus whenever said pressure drops below a predetermined amount.

2,158,810
BEARING LUBRICATION
William A. Wilson, Swarthmore, and Henry F. Schmidt, Lansdowne, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 1, 1938, Serial No. 216,878
3 Claims. (Cl. 308—133)



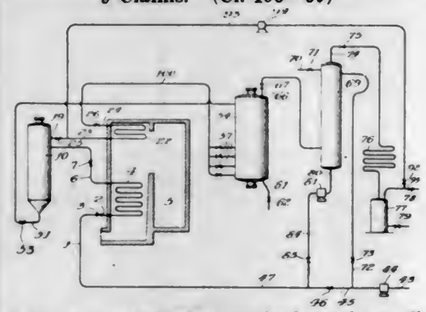
1. The combination with a journal and a bearing having cooperating bearing surfaces, of means for lubricating said surfaces comprising a chamber formed in the bearing and having its lower end portion extending below the lowermost portions of said bearing surfaces and its upper end portion extending thereabove; a port affording communication of the lower portion of the chamber with the lower portions of the bearing surfaces; a channel intersecting the bearing surface of the bearing, communicating with said port, and extending away from the latter circumferentially in the direction of journal rotation; a vent port affording communication between the upper portion of said chamber with a region of the bearing surfaces spaced from said first port; and means for supplying lubricant to said chamber including a suction passage connected to the upper portion thereof.

2,158,811
CONVERSION OF HYDROCARBON OILS
Joseph G. Alther, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1936, Serial No. 113,429
7 Claims. (Cl. 196—49)



1. A process for the pyrolytic conversion of hydrocarbon oils which comprises cracking an oil at elevated temperature and substantial superatmospheric pressure in a heating coil and communicating enlarged reaction chamber, separately removing resultant vaporous and liquid conversion products from the reaction chamber, quickly reheating said liquid conversion products separately withdrawn from the reaction chamber to a sufficiently high temperature, in a separate heating coil, to induce their subsequent reduction to coke, introducing the reheated materials into a coking zone operated at substantially reduced pressure relative to that employed in the reaction chamber wherein their reduction to coke is effected, independently heating vaporous products removed from the reaction chamber to vapor phase cracking temperature and then introducing the same to the coking zone to assist the coking operation, removing vaporous products from the coking zone and subjecting the same to said fractionation, subjecting fractionated vapors of the desired boiling point to condensation, recovering and separating the resulting distillate and gas and returning reflux condensate formed by said fractionation to the first-mentioned heating coil for further cracking.

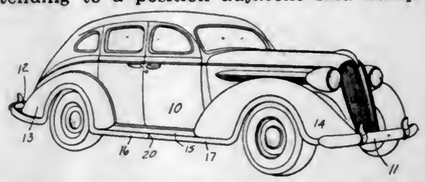
2,158,812
PROCESS FOR HYDROCARBON OIL CONVERSION
Joseph G. Alther, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1936, Serial No. 113,430
9 Claims. (Cl. 196—60)



1. In a process wherein hydrocarbon oil is heated to cracking temperature in a heating coil, resultant heated products introduced into a separating chamber wherein vaporous and liquid components thereof separate and from which they are separately removed, and vaporous components removed from the chamber heated to vapor-phase cracking conditions in a separate heating coil and supplied therefrom to a separate chamber, the improvement which comprises contacting the reheated vapors with liquid conversion products withdrawn from said separating chamber whereby to effect appreciable further vaporization of the latter; subjecting the resultant vapors to fractionation, supplying reflux condensate formed by said fractionation to the first mentioned cracking operation, subjecting fractionated vapors of the desired end-boiling point to condensation, recovering and separating the resulting distillate and uncondensed gases, reheating regulated quantities of the latter to an oil cracking temperature and introducing the same into said separate chamber.

2,158,813
VEHICLE GUARD
John W. Altmyer, Omaha, Nebr.
Application June 10, 1937, Serial No. 147,419
1 Claim. (Cl. 293—57)

The combination with an automobile having front and rear bumpers, wheel fenders and an intermediate running board supported upon a chassis frame, of protective bars for said fenders and running board extending adjacent the edges thereof, the front and rear ends of said bars extending to a position adjacent said bumpers



and the extreme ends being curved inwardly around the end of the fenders to provide a spring or yielding formation, compression springs interposed between said protective bars and frame, and means for securing the free ends of the curved portions of said bars to the automobile independently of the horizontal bumper bars.

2,158,814
FISHING TOOL FOR DRILL STEMS
John T. Ashcraft, Sheridan, Ark.
Application January 24, 1938, Serial No. 186,659
5 Claims. (Cl. 294—94)

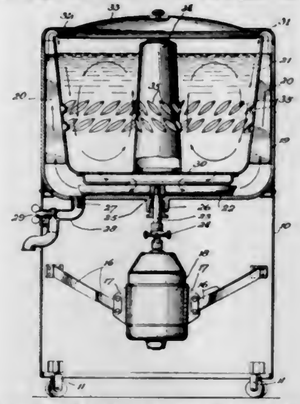


1. A fishing tool of the character described comprising a spacer bar, a pair of guide members fixed to opposite sides of said spacer bar and extending therebelow, a plurality of bolts interconnecting said members below the bar and traversing the slot formed between said members, and a pair of dogs disposed within said slot and between said members, one dog having a plurality of inclined slots receiving said bolts therethrough, and the other dog having a plurality of slots inclined in an opposite direction and receiving said bolts therethrough, one longitudinal edge of one dog being formed with teeth, and an opposite edge of the other dog being formed with teeth.

2,158,815
WASHING MACHINE
Vincent Bendix, South Bend, Ind., assignor to Bendix Home Appliances, Inc., Detroit, Mich., a corporation of Delaware
Application September 21, 1936, Serial No. 101,725
5 Claims. (Cl. 68—184)

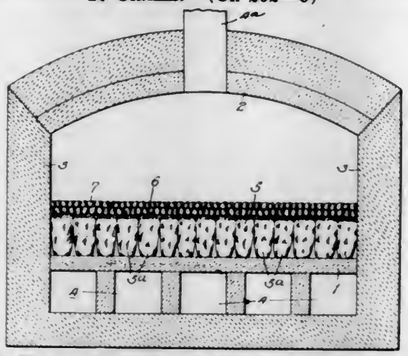
1. A washing machine comprising inner and outer coaxial upwardly-facing tubs having spaced walls separated by vertical fins, a motor-driven horizontal centrifugal impeller between the spaced bottoms of said tubs, the outer margin

of the bottom of the inner tub being formed with openings arranged symmetrically in a circular zone, a member secured to said bottom of the inner tub and formed with an opening adjacent the axis of said impeller and directing liquid from said openings at the outer margin of the inner



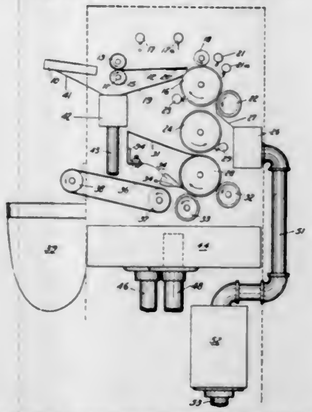
tub bottom to the central portion of the impeller, and a central vertical member arranged at the center of said zone and secured to and extending upwardly from the center of the inner tub bottom and cooperating with said inner tub to define an annular washing space.

2,158,816
COKE MAKING PROCESS
Maurice D. Curran, Glendale, Mo., assignor to Tar & Petroleum Process Company, Chicago, Ill., a corporation of Illinois
Application April 2, 1937, Serial No. 134,552
10 Claims. (Cl. 202—9)



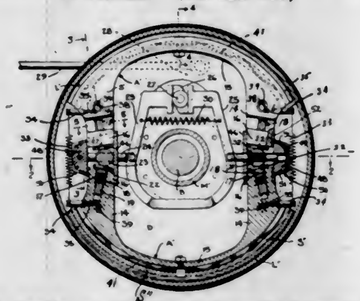
1. The cyclic process of producing coke which consists in providing a bed of high volatile, cokable coal shallow relative to its width and length, applying heat thereto below said bed to coke the lower portion of said bed, stopping the coking process at a point which will produce a predetermined amount of partially devolatilized coal and mildly coherent soft coke at the top of the charge, which partially devolatilized coal has the moisture driven therefrom and those volatiles removed which come off below the softening temperature of said high volatile, cokable coal, separating this devolatilized coal and soft coke from the hard coke produced below it, mixing said devolatilized coal and soft coke with a succeeding charge of coal, and repeating the coking process referred to.

2,158,817
DEVELOPING DEVICE
Fred Doetzel, Jr., Cedar Rapids, Iowa
Application June 22, 1936, Serial No. 86,478
16 Claims. (Cl. 95—94)



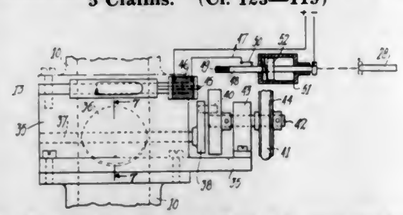
1. In a print developing machine, at least two rollers positioned on horizontal axes one below another, and means for stripping the prints from the first of the rollers comprising means for producing a water spray the spray being directed between the advancing print and the roller, and the spray being located below the axis of the first roller so that when the print is stripped from the first roller it falls by gravity onto the second roller.

2,158,818
BRAKE SHOE
Aldo M. Franchi, New York, N. Y., assignor to Aero Safety Brake, Inc., New York, N. Y., a corporation of New York
Application August 13, 1936, Serial No. 95,811
17 Claims. (Cl. 188—78)



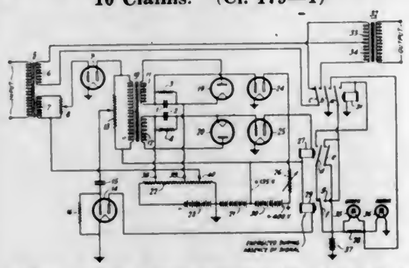
1. A brake of the class described having an open-sides drum and a radially disposed base-plate, one of said parts being rotatable relatively to the other around a common axis; said brake being characterized by the provision upon said base-plate of housings in spaced apart positions around said axis, and a set of removable braking devices each comprising a yoke-shaped supporting member and a shoe of U-shaped cross section provided with an expendable friction liner, said yoke-shaped member, shoe and complemental friction liner constituting a unitary structure supported loosely in said housings, and removable therefrom as a unitary structure, while the drum and base-plate remain in their assembled relation.

2,158,819
AUXILIARY AIR CONTROL VALVE
Frank Gianatasio, New York, N. Y.
Application November 3, 1937, Serial No. 172,531
5 Claims. (Cl. 123—119)



4. In a charge forming device for internal combustion engines, in combination, a fuel mixture intake pipe, a passage forming section in the pipe forming a part of said pipe, a valve housing formed integral with said section and bored to provide a valve chamber and an air passage in longitudinal alignment, air flues in said section extending laterally from the passage in said section to said valve chamber, a valve in the valve chamber having a valve stem extending through said air passage and exteriorly of said housing, a spring in the valve chamber yieldably resisting movement of the valve off its seat to allow passage of air from said air chamber into the valve chamber, an air inlet to said air passage, a solenoid, the core of which constitutes an end of said valve stem, a circuit member for keeping the solenoid energized for a time interval, and actuation of said circuit member being controlled by the movement of an accelerator foot pedal member.

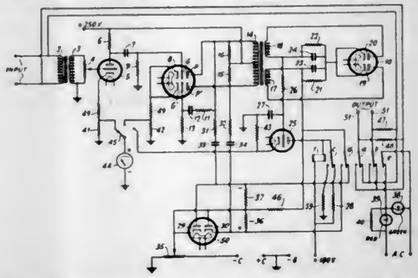
2,158,820
PROGRAM PHASE REVERSER
Jarrett L. Hathaway, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 7, 1937, Serial No. 167,709
10 Claims. (Cl. 179—1)



1. In a circuit arrangement for feeding audio frequency currents of unsymmetric wave characteristics into an amplifier and transducer system having an unsymmetric range of linearity, means operative in dependence upon the sense of an amplitude difference between wave peaks of opposite polarity of said currents for reversing the phase of said currents, and means operative in dependence upon the amplitude level of said currents for fixing the times of such reversals.

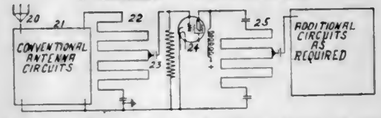
2,158,821
PROGRAM PHASE REVERSER
Jarrett L. Hathaway, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1938, Serial No. 216,686
8 Claims. (Cl. 179—1)

1. In a switching arrangement for reversing the connections between two input terminals and two output terminals, a relay having operable contacts for making said connections reversibly, means including an electron discharge tube rectifier and an electrostatic storage device for building up a relay energizing force in response



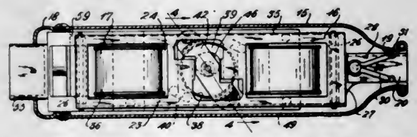
to a dissymmetry of audio frequency currents impressed upon said input terminals, and means including a second electron discharge tube rectifier operative in dependence upon the amplitude level of said currents for restraining the operation of said relay until said amplitude level falls to a predetermined critical value.

2,158,822
RADIO FREQUENCY SELECTION AND OSCILLATORY AMPLIFICATION ELEMENT
Warren C. Hill, North Platte, Nebr.
Application March 16, 1936, Serial No. 69,099
2 Claims. (Cl. 178—44)



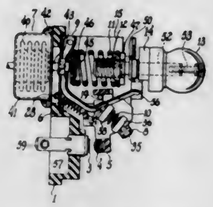
1. A radio frequency selection element, including in combination, a group of substantially parallel wires connected in series forming a substantially noninductive conductor that can oscillate at the working frequency, and an output conductor connected to the noninductive conductor at the electrical middlepoint of the latter.

2,158,823
ELECTRIC MOTOR
Everard F. Kohl, Cleveland, Ohio, assignor to Selco Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application April 2, 1936, Serial No. 72,384. Divided and this application May 28, 1937, Serial No. 145,250
2 Claims. (Cl. 172—36)



1. In an electric motor, a frame having spaced field poles and a fixed shaft extending between the poles, an armature having an axial sleeve connected therewith and journaled on said shaft for mounting the armature for rotation between said poles, and an eccentric integral with said sleeve and providing the armature with a power take-off means, said sleeve and eccentric being formed of a lubricating metal.

2,158,824
CIRCUIT CONTROLLING DEVICE
Clarence W. Kuhn, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 23, 1936, Serial No. 112,231
9 Claims. (Cl. 200—83)



1. In a circuit controlling device, in combination, a contact element movable about a fixed axis and biased toward closed position, a lever movable about said axis between given extreme positions and arranged to move said contact element into open position during final movement into one of said positions and to permit closure thereof during initial movement out of said position, an overcenter spring for moving said lever in opposite directions between said extreme positions with a snap, a pivoted operating member for operating said contact element through the medium of said spring, and a fluid condition responsive operating device associated with said operating member.

2,158,825
PHOTOGRAPHIC EMULSION
Friedrich Lierg, Vienna, Germany, assignor of one-half to Oskar Czeija, Vienna, Germany
No Drawing. Application December 2, 1938, Serial No. 243,655. In Austria December 6, 1937
13 Claims. (Cl. 95—7)

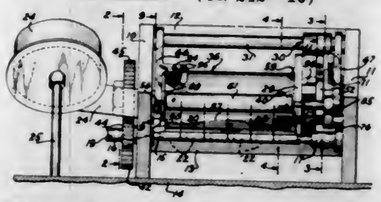
13. In a process of producing photographic emulsions, the steps which comprise dissolving cellulose ester in a liquid comprising an organic solvent, introducing into said solution an alkaline agent in order to cause a partial alkaline decomposition thereof, and sensitizing said partially decomposed cellulose ester by silver halide.

2,158,826
HEAD-BAR ORGANIZATION FOR VENETIAN BLINDS
Hans K. Lorentzen, Montclair, N. J.
Application December 1, 1937, Serial No. 177,432
13 Claims. (Cl. 156—17)



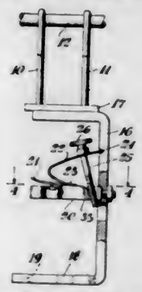
1. Venetian blind supporting and operating mechanism, comprising a head-bar, a tilt-bar beneath said head-bar and of non-circular cross section, a disk having an aperture therein of the same cross section as said tilt-bar with the tilt-bar extending therethrough, a bearing for the periphery of said disk secured to and depending from said head-bar, and means mounted on said head-bar for adjusting the angular position of the tilt-bar.

2,158,827
METHOD OF AND MACHINE FOR WINDING COILS
Frank Martindell, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 12, 1937, Serial No. 130,473
11 Claims. (Cl. 242—10)



1. The method of feeding sheet material to a coil being wound, which comprises withdrawing the material from a supply thereof, advancing it endwise, longitudinally of the coil, severing a predetermined length of the withdrawn material from the supply, and then inserting the severed length edgewise into the coil.

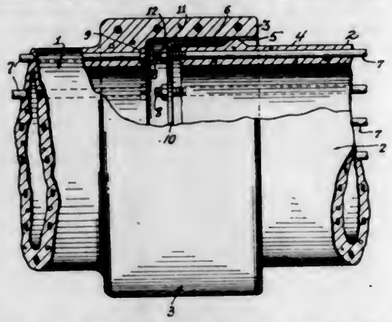
2,158,828
YARN REWINDING SET
Karl Merkel, Brooklyn, N. Y.
Application January 18, 1938, Serial No. 185,487
2 Claims. (Cl. 242—149)



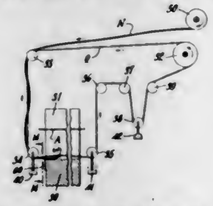
2. In a yarn re-winding set as described, a bracket for suspension from a support, yarn guides on said bracket for guiding the yarn from its spool to a re-winding spool, means to tension said yarn during its passage from one spool to the other, said means comprising a substantially loop-shaped leaf spring anchored at one end in said bracket and engaging with its other, flattened end one of said yarn guides, and a screw passed through one branch of said leaf spring and engaged in said bracket to regulate the degree of engagement between said flattened spring end with the yarn guide and the tension of the yarn accordingly.

2,158,829
PIPE JOINT PACKING
Joseph E. Miller, Oak Park, Ill.
Application April 9, 1937, Serial No. 135,898
2 Claims. (Cl. 285—166)

1. Concrete piping constituted of pipe sections of the bell and spigot type joined together, said pipes having reenforce rods in their walls that project beyond the ends of their spigots, compressible packing bands surrounding the end portions of the spigots, and means associated with the ends of said rods engageable with said bands for applying pressure to said bands, so that when the spigot of one pipe is thrust into the bell of another pipe and pressure is applied to the corresponding bands by said means a tight joint is formed therebetween.

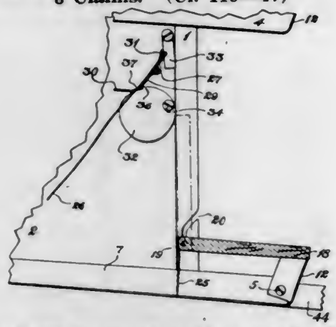


2,158,830
WIRE SAWING
John B. Newsom, Palo Alto, Calif.
Application February 18, 1938, Serial No. 191,164
9 Claims. (Cl. 125—21)



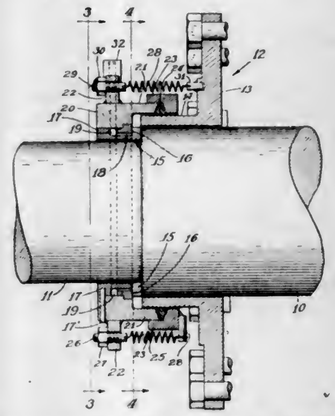
2. The method of wire sawing a ledge which comprises cutting with a wire until the wire wears down to a reduced size, removing cutting pressure from the wire, running the wire idly to enlarge the cut at that point, feeding into the enlarged cut a new wire of a size greater than that of the worn wire and resuming cutting with the new wire.

2,158,831
NEST STRUCTURE
Arthur N. Plante, Winsted, Conn.
Application April 24, 1937, Serial No. 138,710
8 Claims. (Cl. 119—47)



1. In a nest structure in combination with sheet metal top and upright end and partition members, nest frames interposed between the uprights to form nest chambers and extended in front of the nest chambers to form egg receiving compartments, said nest frames each comprising a bottom defining margin merging into a front flange and side flanges by which latter it may be removably secured to the uprights in sloping relation from rear to front, an egg compartment cover extended lengthwise from one end upright to the other, pivotal means for securing the cover to the end uprights whereby the cover may be swung from egg compartment closing position to nest chamber closing position in which latter the front edge of the partition member or members serves as stop means, and a latch associated with an upright for holding the cover in the nest chamber closing position.

2,158,832
MECHANICAL RUBBING-TYPE SEAL
Walter J. Podbielniak, Chicago, Ill., assignor to Benjamin B. Schneider, Chicago, Ill.
Application August 5, 1937, Serial No. 157,517
3 Claims. (Cl. 286—7)

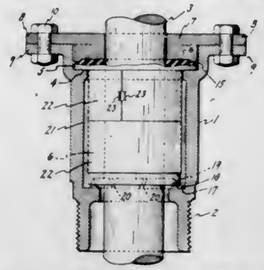


1. In combination with a rotating shaft having a bearing surface, a stationary shaft sealing means comprising an annular member of angular section having a wall extending transversely to the shaft and a sleeve parallel and circumferentially thereof, an annular member having an annular bearing member presenting a bearing surface in opposed contiguous relationship to said shaft bearing surface, said second annular member having a flange parallel to and spaced from the transversely extending wall of the first named annular member and an extension parallel to and circumferentially of a portion of the sleeve of the first named annular member, a relatively movable annular packing gland forming a packing chamber with the sleeve of the first named annular member and with the end of the extension of the second named annular member, a packing material in said packing chamber, means for urging said annular bearing member towards said shaft bearing surface to maintain said bearing surfaces in contacting relatively rotatable relationship to provide a shaft seal and means for urging the packing gland towards said second named annular member to compress the packing and provide a second seal.

2,158,833
STUFFING BOX
Forster Robinson, Lima, Ohio
Application December 16, 1937, Serial No. 180,061
8 Claims. (Cl. 286—26)

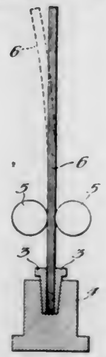
1. A stuffing box for association with a rod,

for preventing the passage of pressure fluid between the box and the rod, comprising a casing, a continuous radially projecting shoulder therein, a split packing having a body and a peripheral radially projecting shoulder thereon adjacent one end thereof, said casing and packing having an annular space therebetween, means



to clamp said packing shoulder against said casing shoulder, and means projecting from said casing, opposite said casing shoulder to support the end of said packing body opposite said casing shoulder, said box having ports communicating with said annular space for subjecting the same to said pressure fluid.

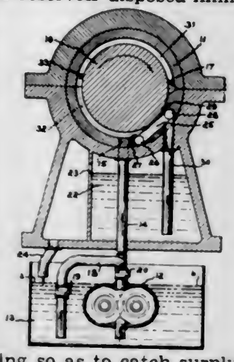
2,158,834
DROP HAMMER BOARD
Thomas Robinson, Lakewood, Ohio, assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
Application March 31, 1937, Serial No. 134,062
4 Claims. (Cl. 78—29)



1. A board for drop hammers comprising a plurality of superimposed plies of duck fabric treated with a heat hardenable binder, the plied fabric being subjected to heat and pressure to cure the binder to rock hardness and to form a dense, substantially rigid and inflexible unitary elongated structure.

2,158,835
BEARING LUBRICATION
Henry F. Schmidt, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 22, 1937, Serial No. 181,075
7 Claims. (Cl. 308—121)

1. In combination, a bearing; a journal fitting the bearing; means providing an elongated chamber inclined so that its end portions are at different elevations relative to the bearing with at least the upper end portion above the lower portion of the bearing, with the lower end portion connected by a port to the lower portion of the bearing interior, and with the upper end portion connected by a vent opening to the interior of the bearing; said bearing having a lubricant inlet, a channel arrangement connected to said port and inlet and extending therefrom circumferentially in the direction of rotation of the journal; an upper reservoir disposed immediately be-

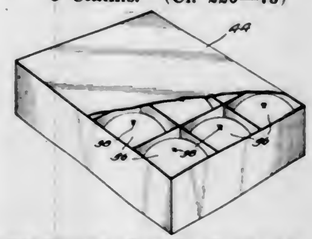


low the bearing so as to catch surplus lubricant escaping from the latter; a lower reservoir; an overflow arranged to maintain a predetermined level of lubricant in the upper reservoir and providing drainage therefrom to the lower reservoir; a pump having its intake in communication with the lower reservoir; a conduit connecting the discharge of the pump with said inlet; and a conduit communicating with the upper end portion of the chamber and having its lower end submerged in the lubricant in the upper reservoir.

2,158,836
PRODUCTION OF LIGHT-SENSITIVE DIAZOTYPE LAYERS
Maximilian Paul Schmidt and Georg Werner, Wiesbaden-Biebrich, Germany, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany
No Drawing. Application March 27, 1937, Serial No. 133,384. In Germany April 22, 1936
9 Claims. (Cl. 95—7)

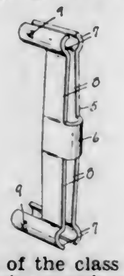
6. Light-sensitive layer comprising the monodiazo compound of a p-aminodiphenyl which carries in the nucleus containing the diazo group two alkoxy groups in 2- and 5-positions.

2,158,837
METHOD OF AND APPARATUS FOR PACKAGING LIQUIDS
Fred M. Schukraft, Oak Park, Ill.
Application October 6, 1937, Serial No. 167,503
8 Claims. (Cl. 226—73)



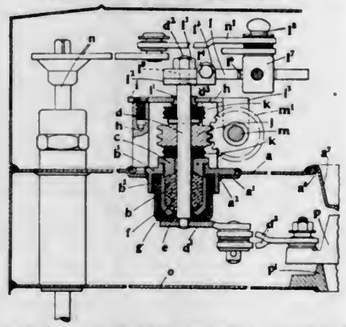
1. A new process of packaging liquids, comprising applying the liquids to a relatively thin sheet of rubber to form a portion of said sheet into an enlarged container body filled with said liquid, simultaneously forming a relatively narrow neck on said container, and securely sealing the neck of said container.

2,158,838
CONNECTING LINK
Henry G. Shakespeare, Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich.
Application June 21, 1937, Serial No. 149,448
9 Claims. (Cl. 74—588)



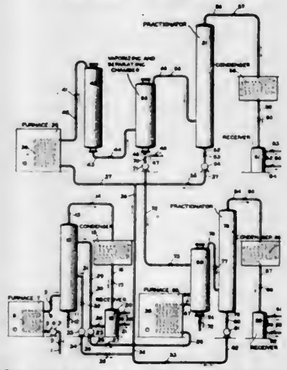
3. An element of the class described comprising elongated spring members joined at one side with reference to the length thereof to provide normally spaced spring arms, said arms being provided with opposed curved pivot members disposed transversely of the arms and provided with retaining lugs, the arms being adapted to be compressed toward each other to permit the insertion of the pivot members in an opening of a coacting member, the lugs retaining the pivot members in said opening.

2,158,839
DRY GAS METER
Ernest William Smith, London, Arthur Charles, Streatham Vale, London, and Richard Walter Ernest Gaskin, Claygate, England
Application September 25, 1936, Serial No. 102,494
In Great Britain September 27, 1935
3 Claims. (Cl. 73—268)



1. A gas meter of the dry type provided with a closed top having a valve plate and a closure plate for the gas-way above the valve plate, a crank spindle and tangent arm, the crank spindle extending through the closure plate and the crank being positioned between the valve plate and the closure plate, a stuffing box with peripheral flange seated upon the closure plate by means of the peripheral flange and serving for the passage of the crank spindle through the closure plate, a concentric enclosure encircling the stuffing box and of dimensions to leave to the exterior of the stuffing box an annular space, the said enclosure being carried by the crank spindle, packing material within the stuffing box and within the said annular space, and a bearing member for the part of the crank spindle adjacent the tangent arm comprising a bearing plate and a number of pillars, the said pillars being mounted upon the peripheral flange of the stuffing box and supporting the bearing plate in spaced relation therefrom.

2,158,840
CONVERSION OF HYDROCARBON OILS
Kenneth Swartwood, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 15, 1937, Serial No. 125,799
7 Claims. (Cl. 196—49)



1. In the process for the pyrolytic conversion of hydrocarbon oils wherein reflux condensate, formed as hereinafter described, is cracked in a heating coil and communicating enlarged reaction chamber maintained at substantial pressure, the resultant vaporous and liquid conversion products separated, and the latter subjected to appreciable further vaporization at substantially reduced pressure, the vaporous products, including those resulting from said further vaporization, subjected to fractionation for the formation of said reflux condensate which is supplied to said heating coil, fractionated vapors of the desired end-boiling point subjected to condensation and the resultant distillate recovered, the improvement which comprises simultaneously heating charging stock for the process, comprising an oil of relatively wide-boiling range, to a lower cracking temperature than that employed in said coil and sufficient to effect its substantial vaporization, separating the resulting heated materials into unvaporized oil and a plurality of distillate fractions, supplying one of said distillate fractions of said charging stock to said heating coil, wherein it is cracked with said reflux condensate, supplying another of said distillate fractions, of lower boiling point than the first mentioned distillate fraction, to a separate heating coil, wherein it is heated to a higher cracking temperature, supplying conversion products from said separate heating coil to a separate enlarged chamber and introducing to the latter chamber at least a portion of said unvaporized oil and non-vaporous residual liquid resulting from said further vaporization of said liquid conversion products, separating the commingled materials in said separate enlarged chamber into vaporous and non-vaporous components, recovering the latter, subjecting said vaporous components to fractionation for the

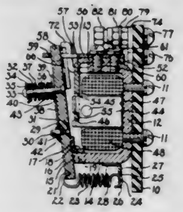
formation of reflux condensate, returning reflux condensate from the last mentioned fractionating step to the first mentioned heating coil for further cracking, subjecting fractionated vapors of the desired end-boiling point from the last mentioned fractionating step to condensation, and recovering the resulting distillate.

2,158,841

ELECTROMAGNETIC CONTACTOR

William C. Stevens, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application August 28, 1937, Serial No. 161,364
10 Claims. (Cl. 175—338)



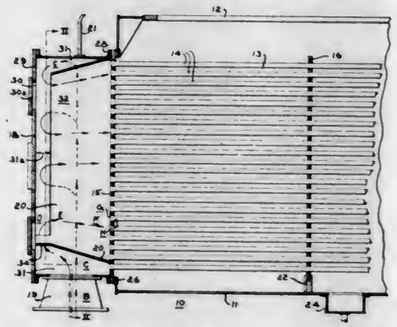
1. In an electromagnetic contactor, in combination, a magnet core comprising three parallel arms, an operating winding surrounding the intermediate arm and spaced inwardly from the free end of the latter, a one-piece substantially L-shaped sheet metal member having one portion attached to an outer arm of said core and an integral loop-shaped portion overlapping the free end of said core arm first mentioned, said free end having a groove formed in the forward face thereof and said loop-shaped portion having an integral part formed to fit within said groove whereby a shading coil is provided, and said loop-shaped portion also acting to positively prevent displacement of said operating winding from said magnet core.

2,158,842

CONDENSER APPARATUS

Ulrich A. Taddiken, Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 27, 1937, Serial No. 176,875
9 Claims. (Cl. 257—236)



9. In a heat exchange device, a tube sheet, a water box having a peripheral wall and cover associated therewith and provided with an inlet opening for water extending through the peripheral wall, and means within the water box for changing the direction of flow from that laterally of the water box to that longitudinally of the tubes, said means comprising first and second deflectors, the first deflector including a circumferential shell having one end arranged contiguously to the tube sheet and having its other end spaced from the water box cover to provide a flow area and the second deflector being arranged to interrupt said flow area at the immediately adjacent region of the water inlet.

2,158,843

AZO DYESTUFFS

Carl Taube and Otto Bayer, Leverkusen, I. G. Werk, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 18, 1937, Serial No. 126,407. In Germany February 21, 1936
2 Claims. (Cl. 260—181)

1. Azodyestuffs having in the free state the following formula:



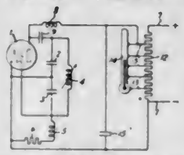
wherein alk stands for an alkylene group, R stands for a member selected from the group consisting of 2-amino-5-naphthol-7-sulfonic acid and N-acyl, N-alkyl, N-aryl, N-aroyl derivatives and halogen substitution products thereof, and R_1 stands for a member selected from the group consisting of 2-amino-5-naphthol-7-sulfonic acid, periaminonaphthol sulfonic acids and substitution products and derivatives thereof, yielding in general on vegetable fibers when aftercoppered blue shades of good fastness to washing, light and acids.

2,158,844

TEMPERATURE COMPENSATED OSCILLATOR

Paul D. Andrews, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 6, 1936, Serial No. 109,442
6 Claims. (Cl. 250—36)



4. In combination, an oscillation generator including an electron discharge device, a source of current supply, a resistor connected across said source, and temperature responsive means for supplying to said device the voltage across a variable portion of said resistor.

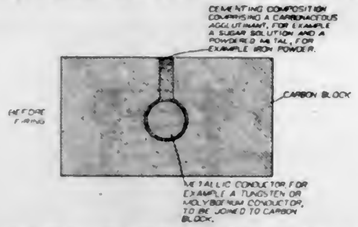
2,158,845

CEMENTING PROCESS

Raymond B. Ayer, Verona, N. J., assignor to General Electric Company, a corporation of New York

Application April 14, 1937, Serial No. 136,793
3 Claims. (Cl. 176—38)

1. The method of rigidly uniting a shaped carbon member to a shaped member of metal selected from the class consisting of metallic molybdenum and metallic tungsten which comprises covering facing surfaces with a cementing composition containing carbonaceous agglutinant and powdered iron, assembling the members in the position of ultimate rigid union, and heating the assembly in essentially a nonoxidizing atmosphere



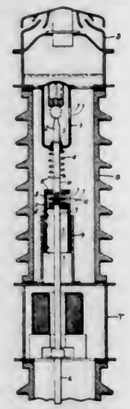
at a temperature between about 1250° C. and about 1450° C. for a period of time sufficient to form a compound of carbon and iron from the cementing composition and to unite said shaped members therewith.

2,158,846

ELECTRIC CIRCUIT BREAKER

Georges Balachowsky, Paris, France, assignor to General Electric Company, a corporation of New York

Application February 4, 1937, Serial No. 124,131
In France February 27, 1936
10 Claims. (Cl. 200—150)



1. An electric circuit breaker of the fluid blast type comprising relatively movable contact structure, an arc-extinguishing liquid, and means for extinguishing arcing at said contact structure upon opening of the circuit including insulating structure movable in accordance with the circuit-opening operation, said insulating structure forming fluid passages adapted to traverse portions of the arc path, said insulating structure also including a piston for directing arc-extinguishing fluid through said passages for interrupting the circuit.

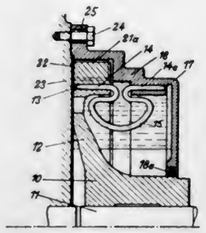
2,158,847

ELASTIC COUPLING

Johannes Baumann, Heidenheim-on-the-Brenz, Germany, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Germany, and St. Poelten, Austria, a copartnership composed of Walther Voith, St. Poelten, Austria, and Hermann Voith and Hanns Voith, Heidenheim-on-the-Brenz, Germany

Application February 19, 1937, Serial No. 126,692
In Germany February 20, 1936
11 Claims. (Cl. 64—15)

1. An elastic coupling, comprising coupling members adapted to rotatably change their positions in respect to each other, resilient means therebetween for transmitting rotary movement of one coupling member to the other coupling member within the maximum load to which said resilient means is intended to be subjected, said resilient means consisting of all metal C springs having one end engaging one coupling member and the other end engaging another coupling



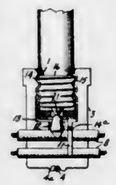
member, straddling two adjoining coupling members and being stressed substantially torsionally only, when under load, and means, independent of the springs, operative at the overload and beyond the maximum load of said springs, to mechanically join the coupling members and prevent the action of an overload upon said springs by effecting direct transmission of the overload directly from one coupling member to the other.

2,158,848

ELECTRIC SOCKET

George B. Benander, Yalesville, Conn., assignor to Monowatt Electric Corporation, Bridgeport, Conn., a corporation of Connecticut

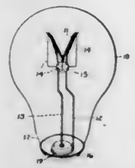
Application March 25, 1936, Serial No. 70,778
23 Claims. (Cl. 173—346)



1. In an electric socket, a base having a center terminal and a screw shell being adapted to receive a plug having contacts for co-operating with said center terminal and screw shell, a disk of insulating material above said center terminal, said disk being threaded in said shell, means adapted to cooperate with a part of the plug whereby threading the plug out of said shell moves said disk away from said center terminal to a position protecting said terminal from short-circuiting.

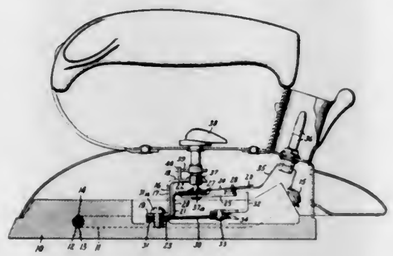
23. In an electric socket, a base having a center terminal and a screw shell, said base being split along the axis of the shell and having threads therein cooperating with threads on the screw shell, the friction between said threads being such that the shell is threaded into and out of the base with a plug threaded into the shell, a U-shaped spring clip having arms holding the parts of the base together, an extension of one of the arms of the clip providing a clip for gripping a support between it and the base.

2,158,849
ELECTRIC LAMP
Harold D. Blake, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application January 24, 1935, Serial No. 3,334
7 Claims. (Cl. 176—32)



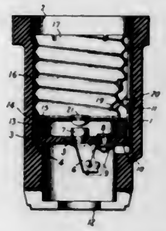
1. An electric lamp comprising a tubular glass envelope having a metal disc sealed directly to the edges of the opening at each end thereof, each of said discs having a round cavity therein for engagement with a holder, said cavity forming a boss at the inside of the disc, a filament extending longitudinally through the envelope from end to end thereof and electrically connected at each end to one of said discs, and a support structure for said filament comprising a stay member extending longitudinally through said envelope and having wire end portions looped around the said bosses on said discs, and support wires spaced along and extending from said stay member and engaging said filament.

2,158,850
TEMPERATURE CONTROL DEVICE
James R. Campbell, Ontario, Calif., assignor to General Electric Company, a corporation of New York
Application November 30, 1937, Serial No. 177,263
5 Claims. (Cl. 200—138)



1. A temperature control device comprising an elongated resilient switch arm biased to a predetermined controlling position, a relatively shorter bimetallic temperature responsive bar in spaced relation with said switch arm having one end free to move in response to temperature changes, a member having two arms arranged at a material angle to each other, one arm secured to said free end of said bimetallic bar and constituting an extension of said bar, and the other arm extending toward said switch arm and having its end arranged to engage it when the bar moves to control the movement of the switch arm, the switch arm and bimetallic bar being positioned and spaced from each other so that said end of said other arm moves a material distance longitudinally of said switch arm as the switch arm is moved to open and close the switch.

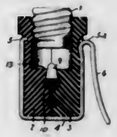
2,158,851
SOCKET
Joseph D. Ceader, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application February 3, 1937, Serial No. 123,754
15 Claims. (Cl. 173—346)



1. In an electric socket, a screw shell having a flexible diaphragm closing the lower end thereof, said diaphragm being fixed at its edges, a contact carried by said diaphragm intermediate its edges and adapted to be engaged by the center contact of a plug threaded in the shell, a portion of said diaphragm intermediate its edges being flexed downward by the pressure exerted thereon by the center contact of the plug, and means for completing a circuit to said contact upon downward movement of said portion of the diaphragm, said circuit being open when the diaphragm is in its normal position.

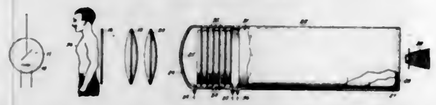
15. In an electric socket, a shell adapted to receive a plug, a closed chamber having a flexible wall provided with a contact, an opposed wall having a contact, said flexible wall being adapted to be flexed by the insertion of said plug into said shell to effect closure of said contacts.

2,158,852
ELECTRIC SOCKET
Joseph D. Ceader, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application February 3, 1937, Serial No. 123,755
14 Claims. (Cl. 173—346)



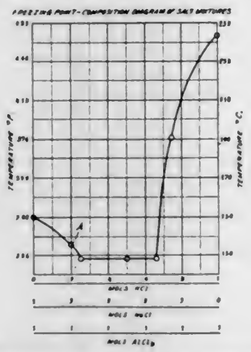
1. In an electric socket, a base, a center terminal for co-operating with the center contact of a plug to be inserted in said socket, a screw shell rotatably and axially movable in the base, a part on the base engaging the threads on the outside of the screw shell whereby the shell is moved into and out of the base upon rotation therein, the friction between said part of the base and the screw shell being less than the friction between the screw shell and the plug threaded therein whereby the shell may be rotated by the plug, means stopping outward movement of the shell prior to disengagement of said part and the shell whereby the plug may be unthreaded from the shell, and a contact in the base engaged by the shell when the shell is threaded into the base, said contact being spaced from the shell when the shell is threaded out of the base.

2,158,853
IMAGE REPRODUCTION
William D. Coolidge, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 30, 1937, Serial No. 171,937
5 Claims. (Cl. 250—71)



1. The method which comprises producing a primary visible image by the action of X-radiations, projecting said image on a photoelectric surface, producing an electrostatic field in the region of said surface thereby to create an electron beam having a section pattern corresponding to said image, focusing the beam electron-optically to cause said section pattern to be reproduced on a fluorescent screen placed in cooperative relation to said photoelectric surface and accelerating the beam sufficiently to produce on said screen a secondary visible image having an intensity substantially greater than that of said primary image.

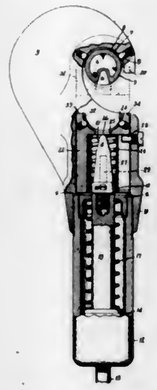
2,158,854
SALT MIXTURE FOR USE AS A THERMOPHORE
Leonard C. Drake, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 20, 1937, Serial No. 160,021
4 Claims. (Cl. 252—5)



1. A thermophore mixture consisting of anhydrous aluminum chloride, sodium chloride, and potassium chloride.

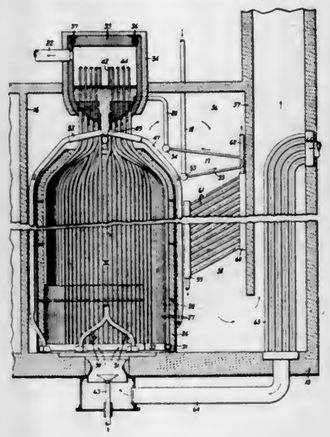
2,158,855
HYDRAULIC PRESS FOR CABLE CONNECTORS
Eugene D. Eby and Thomas C. Aitchison, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application August 10, 1938, Serial No. 224,152
6 Claims. (Cl. 140—113)

1. A press comprising a supporting member having a cylindrical bore and a semi-cylindrical seat for the work, a cylinder supported by the member adapted to receive fluid under pressure, a ram in the cylinder actuated by the fluid therein, a retracting means for the ram, a rod for the ram, a follower movable axially within the bore of the member, a punch detachably secured to the rod and normally located within the follower, means within the follower for retracting the punch, a second semi-cylindrical seat for the work carried by the follower and



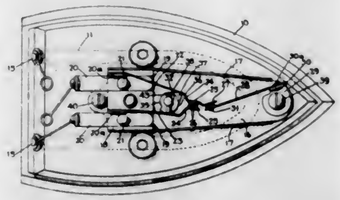
having an opening for the punch, means carried by the member for preventing the follower from turning, means carried by the follower for preventing the punch from turning, and a conduit for admitting fluid under pressure to the cylinder.

2,158,856
MERCURY BOILER
William L. R. Emmet, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 17, 1935, Serial No. 22,119
9 Claims. (Cl. 122—235)



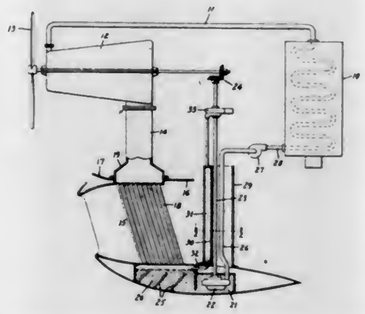
2. A mercury boiler including a plurality of heating tubes arranged to assume the shape of a bottle with the lower portions of the tubes forming a cylindrical combustion chamber and the upper portions of the tubes bent inward and uniformly spaced within the entire cross-sectional area of the necked-in portion of the bottle contour, and a cylindrical drum including a displacement block for mercury and a central bottom portion with uniformly spaced-apart openings for receiving the upper ends of the tubes.

2,158,857
TEMPERATURE CONTROL DEVICE
Chester I. Hall, Schenectady, and Claude M. Hathaway, Niskayuna, N. Y., assignors to General Electric Company, a corporation of New York
Application November 30, 1937, Serial No. 177,264
6 Claims. (Cl. 200—138)



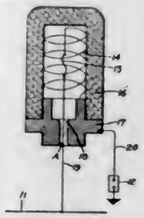
1. A temperature control device comprising an elongated switch arm and an elongated bimetallic thermostat bar having movable ends adjacent each other, and said members diverging away from said adjacent ends at a relatively wide angle to each other, and one of said members having an angular extension of substantial length lying in a plane substantially parallel to the other member and engageable by the other as the temperature of said bar is changed, the point of engagement between said extension and said other member moving a considerable distance along the angular extension when the thermostat bar moves responsively to temperature changes.

2,158,858
POWER PLANT APPARATUS FOR AIRCRAFT
Bruno Hoffmann, Berlin-Spandau, Germany, assignor to General Electric Company, a corporation of New York
Application January 11, 1937, Serial No. 120,136
In Germany January 29, 1936
3 Claims. (Cl. 257—26)



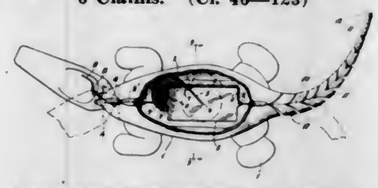
3. In an elastic fluid power plant for aircraft the combination of a condenser having upper and lower headers with a plurality of tubes connected between them, the lower header having a rearward extension and being streamlined, a condensate pump disposed in the rearward extension and arranged normally to be completely immersed in operating liquid, a drive shaft for the condensate pump, a streamlined casing surrounding the drive shaft and the discharge conduit of the condensate pump, and a partition in the casing defining a channel for receiving noncondensables from the lower header.

2,158,859
ELECTRIC PROTECTIVE SYSTEM AND APPARATUS
Shinichiro Horikoshi, Tokyo, Japan, assignor to General Electric Company, a corporation of New York
Application November 24, 1937, Serial No. 176,320
In Japan November 28, 1936
14 Claims. (Cl. 175—215)



1. In an electric protective system including a lightning arrester, protective means for said arrester including a pair of circuits connected in series with the arrester and in parallel with each other, one of which circuits includes a fuse and the other of which circuits includes a discharge gap, said one circuit having substantial impedance whereby the impedance drop thereacross upon subjection of the said one circuit to lightning impulse current will cause arc-over of said gap to by-pass the surge current around the fuse without damage to the latter, said fuse being arranged to operate upon subjection of said one circuit to commercial frequency current of predetermined abnormal value.

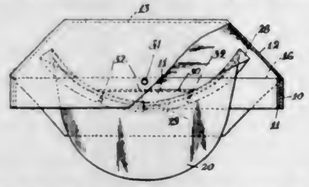
2,158,860
MECHANICAL MOVEMENT FOR TOY FIGURES AND SO FORTH
Herman S. Hyde, Deerfield, Mass.
Application August 28, 1936, Serial No. 98,351
6 Claims. (Cl. 46—123)



1. A mechanical movement for a toy or other devices comprising, a central shaft having an arcuate or laterally bent resilient end portion terminating in a crank, a member pivoted adjacent said crank-arm, a second member pivoted on said first member, and a cam-like device on said second member adapted to engage said crank and be vertically displaced thereby when said shaft is oscillated to move said first member from side to side.

2,158,861
VISOR FOR COLLAPSIBLE CAPS
Milton Meyer, Brooklyn, N. Y.
Application September 2, 1937, Serial No. 162,140
3 Claims. (Cl. 2—195)

1. In combination with a cap having a body member collapsible to form two flat sides, the said body member having a turned in reinforcing portion at the lower edge to form an inner hat band member, a flexible visor secured to one of said flat sides at the reinforcing portion, the ends of the said flexible visor being free of the reinforcing portion whereby the said visor becomes flat when the cap is collapsed and curved



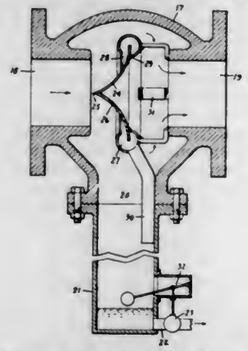
along the vertical and horizontal axes when the cap is opened.

2,158,862
SOCKET
Roscoe G. Phelps, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application February 12, 1937, Serial No. 125,409
17 Claims. (Cl. 173—346)



17. In an electric socket, a shell adapted to receive a plug, a closed chamber including a flexible wall having a plug contact and a shell contact, an opposed wall having contacts connected to line conductors, said flexible wall being adapted to be flexed by the insertion of said plug to effect closure of said plug contact and one line contact and said shell contact and other line contact to thereby connect said plug in circuit with said line conductors.

2,158,863
SEPARATOR
Gordon E. Randall, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 25, 1938, Serial No. 192,657
5 Claims. (Cl. 183—110)

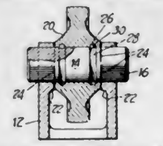


1. Liquid vapor separating device comprising a conduit, a deflecting member having an outer edge and a surface inclined towards the direction of elastic fluid, and a channel member into which the outer edge of the deflecting member projects, said channel member being sealed to the rear surface of the deflecting member.

2,158,864
METAL COMPOSITION
Samuel Ruben, New Rochelle, N. Y.
No Drawing. Application November 12, 1935, Serial No. 49,351
5 Claims. (Cl. 75—170)

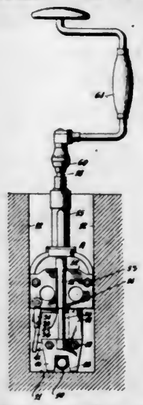
1. A metal composition composed of nickel, about 97.5% to 99.95% and alkaline earth silicide, about 0.05% to 2.5%.

2,158,865
ROLLERWAY
Joseph Sammon, Kearny, N. J., assignor to Driver-Harris Company, Harrison, N. J., a corporation of New Jersey
Application June 10, 1938, Serial No. 212,882
2 Claims. (Cl. 193—35)



1. A work-supporting device for a furnace of the class described comprising two rails arranged side by side and spaced apart and adapted to be mounted on the bottom wall of the furnace, rollers arranged between the rails one behind the other with their peripheral surfaces spaced apart, shafts upon which said rollers are rotatably mounted, the ends of said shafts being squared and said rails having inclined slots opening upwardly for receiving said squared ends of the shafts to hold the shafts from rotary and axial movement, the ends of the hub of each roller being arranged adjacent the inner sides of said rails so as to hold the rollers from axial movement on the shafts.

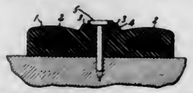
2,158,866
TOOL
Herman Saucke, New York, N. Y.
Application April 21, 1938, Serial No. 203,282
6 Claims. (Cl. 29—73)



1. A pipe cutting tool for use with a brace or drill, said tool comprising a housing, a frame mounted for transverse movement therein and having means to support a saw blade, means including a rotating shaft for imparting reciprocating movement to said frame, said shaft being journalled in said housing and extending with its axis in the plane of said blade and nor-

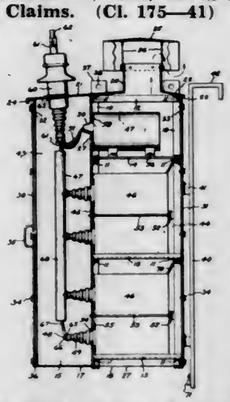
mal to the cutting edge thereof, said shaft having means to be connected to said brace or drill for driving said blade and supporting said housing whereby said tool may be handled by suitable manipulation of said brace or drill, a guide having a recess to engage the pipe to be cut to position the tool and to prevent the housing from turning with said shaft during the cutting operation, said recess extending parallel to the axis of said shaft whereby the guide is automatically positioned when the saw blade is brought against said pipe by movement of said brace or drill, and resilient means mounting said guide on said housing whereby said guide is retracted by axial pressure on said shaft as the saw blade is advanced in cutting.

2,158,867
RIBBON WIRING
Gerhard P. Schwabacher, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application December 26, 1935, Serial No. 56,214
1 Claim. (Cl. 174—117)



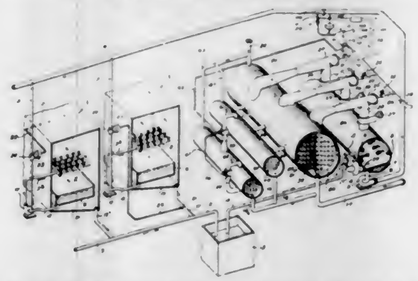
A cable adapted to be secured to and to lie flat on a surface comprising a flat substantially rectangular strip of flexible resilient insulating material, conductors embedded in said strip, said conductors being spaced apart sufficiently to permit securing the cable to a surface by fasteners extending through the strip between the conductors into the surface and parallel beads formed integrally with said resilient insulating material and extending above the upper surface of the rectangular strip between the conductors defining a groove therebetween for locating the fasteners and for preventing embedding of the fasteners in the strip of insulating material.

2,158,868
ELECTRIC EQUIPMENT
John D. Stacy, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 17, 1936, Serial No. 106,181
2 Claims. (Cl. 175—41)



1. In a capacitor equipment, an enclosing protective housing of rigid box-like construction including a partition defining two separate compartments within the housing, a plurality of individual casing enclosed capacitor units each having insulator carried terminals, means supporting said units in one of said compartments with the units in spaced relationship for circulation of air around the respective casings of the units and with the insulator carried terminals of the units projecting respectively through apertures in said partition into the other of said compartments, insulator carried terminals supported by said housing and extending through a wall of the housing into said other compartment, said last terminals provided with means external of the housing for connection with an external circuit, connection means in said other compartment between said housing supported terminals and the terminals of said capacitor units, ventilation openings in the falls of said one compartment operative to provide for circulation of air between and around the respective casings of said units in said one compartment, and means sealing said partition apertures around said capacitor unit terminals and otherwise sealing said other compartment against entrance thereinto and contamination of said terminals and connection means by dust, moisture, and other debris laden air.

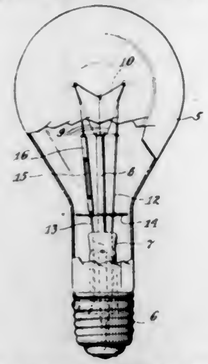
2,158,869
AIR CONDITIONING SYSTEM
Joseph M. Sperzel, Brooklyn, N. Y.
Application July 13, 1935, Serial No. 31,181
12 Claims. (Cl. 62—2)



12. In an air conditioning system having an air cooling chamber, in combination, means for circulating a cooling liquid at a nearly constant rate in heat exchanging relation with the air in said chamber, temperature responsive valve means for automatically slightly varying the rate of flow of the cooling liquid to the chamber in accordance with but less than in unison with the thermal load requirements, means for refrigerating the cooling liquid, and means responsive to the rate of flow of the cooling liquid to the chamber and controlling the refrigerating means for automatically increasing the rate at which heat is extracted from the liquid sufficiently to exceed the thermal load when the rate of flow of the cooling liquid exceeds a predetermined value.

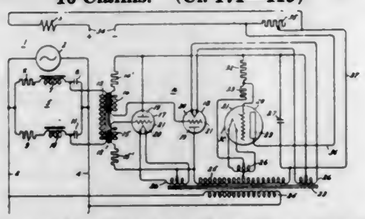
2,158,870
FUSIBLE MATERIAL
Frederic E. Sutter, West Caldwell, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 14, 1938, Serial No. 202,111
4 Claims. (Cl. 200—135)

2. A fuse adapted to disrupt upon the passage of abnormal flow of electric current therethrough consisting of a readily cleanable, slightly oxidizable alloy including copper in the proportion of 33% to 93% and nickel in the proportion of 60% to 70%, respectively, of the total percentage of



said alloy to render said fuse readily solderable to metals or alloys of a composition differing from said fuse.

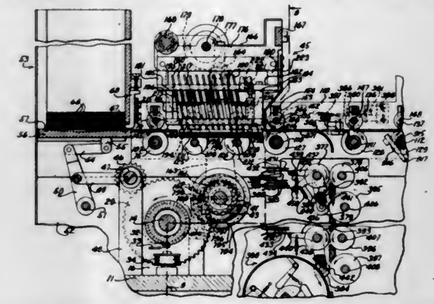
2,158,871
REGULATING SYSTEM
William E. Jacobsen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 24, 1936, Serial No. 92,378
16 Claims. (Cl. 171—119)



1. In combination, an alternating current circuit, a dynamo-electric machine having an armature winding connected to said alternating current circuit and having a field winding, a direct current circuit for energizing said field winding, a non-linear resonant circuit energized from said alternating current circuit and being arranged to provide an electrical quantity which varies in a predetermined manner within a predetermined range of an electrical condition of said alternating current circuit, a source of alternating current, an electric valve means having a control member and being connected between said source and said direct current circuit for controlling said direct current circuit, a phase shifting circuit responsive to said electrical quantity and being connected between said resonant circuit and said valve means for impressing on said control member a potential variable in phase relative to the voltage of said source to control the conductivity of said electric valve means to maintain said electrical condition within said predetermined range.

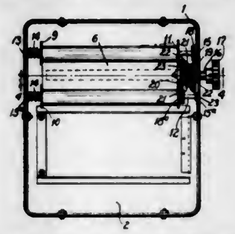
2,158,872
ACCOUNTING SYSTEM
Harold G. Johnstone, Chicago, and John C. Gates, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1932, Serial No. 643,016
12 Claims. (Cl. 235—61.7)

1. In a card actuated posting machine, means for comparing certain areas of file cards with certain areas of item cards, means controlled by the comparing means for receiving the file cards whose compared area does not agree with the area of the item card being compared, means for transferring cards from the comparing means to the receiving means, and means rendered effective by the card comparing means and operable when the areas of the item and file card



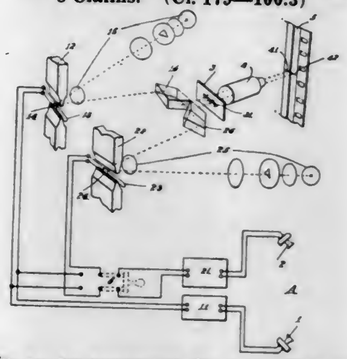
being compared agree for sensing the information on the file and item cards and effecting a computation in accordance with the information on the file and item cards, means under control of the computation effecting means for preparing a new file card, and means for interfiling the new file card with the file cards in the receiving means, said last mentioned card containing information representing the result of the computation.

2,158,873
POWER TRANSMITTING MECHANISM
Raymond A. Kaltwasser, Clayton, Mo.
Application October 6, 1937, Serial No. 167,483
6 Claims. (Cl. 192—51)



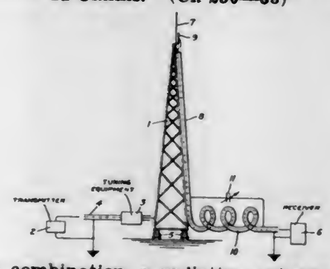
1. A power transmitting mechanism of the class described including a driving shaft, a pair of parts freely rotatable upon said driving shaft, said parts each having a plurality of fingers extending from adjacent faces thereof, the fingers on one part extending toward the fingers on the other part and said fingers having parallel axes, a clutch member rotatable with said driving shaft but slidable therealong and having a plurality of fingers extending outwardly from each opposed face thereof, and said parts, said clutch member and said fingers being relatively spaced and arranged whereby rotation of said driving shaft in one direction will cause the fingers on one face of said clutch member to engage the fingers on one of said parts whereby said part will be rotated by said driving shaft and rotation of said driving shaft in the other direction will cause the fingers on the other face of said clutch member to engage the fingers on the other of said parts whereby said other part will be rotated by said driving shaft.

2,158,874
PHOTOGRAPHIC SOUND RECORDING
Otto Kurt Kolb, Chiswick, London, England, assignor to British Acoustic Films Ltd., London, England, a British corporation
Application November 11, 1937, Serial No. 173,985
In Great Britain November 19, 1936
8 Claims. (Cl. 179—100.3)



1. In an arrangement for recording multiple variable area sound tracks on film, a plurality of electro-optical sound modulating devices, one for each track, a plurality of optical systems including apertured masks, one for each modulating device for directing a light beam thereon, a single optical objective system common to said modulating devices, and a plurality of prisms one for each modulating device, between the latter and said objective system and arranged to direct parallel beams through the objective system whereby adjacent parallel sound tracks will be recorded on opposed lateral zones of the track.

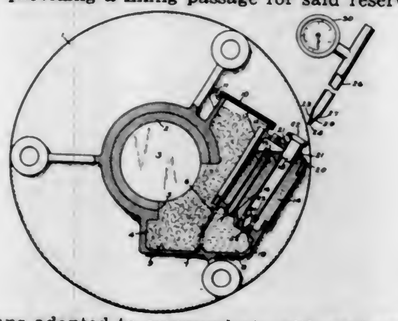
2,158,875
ANTENNA SYSTEM
Laurance M. Leeds, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 28, 1937, Serial No. 145,251
11 Claims. (Cl. 250—33)



1. In combination, a radiating antenna tower, a receiving antenna mounted on top of said tower and electrically connected thereto to assist radiation of energy thereby, and a receiver connected to said receiving antenna to receive energy intercepted thereby.

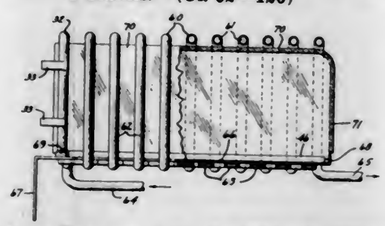
2,158,876
LUBRICATING DEVICE
John O. Lewis, Wesleyville, Pa., assignor to General Electric Company, a corporation of New York
Application August 12, 1937, Serial No. 158,724
6 Claims. (Cl. 308—132)

1. A lubricating device for a bearing comprising a storage reservoir adapted to contain lubricant below atmospheric pressure, a feeding chamber arranged to feed lubricant from said reservoir to the bearing, an opening providing direct communication between said storage reservoir and said feeding chamber, means having an opening at each end thereof and an intermediate opening communicating with said storage reservoir for providing a filling passage for said reservoir,



means adapted to communicate with said reservoir through the intermediate opening in said filling passage for supplying lubricant to said reservoir and adapted to provide a seal with said reservoir filling passage for preventing the flow of lubricant from either end of said filling passage during filling of said reservoir, and means associated with said filling means for indicating the level of lubricant in said reservoir.

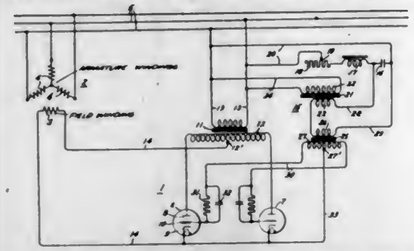
2,158,877
EVAPORATOR UNIT FOR REFRIGERATION PURPOSES
Sylvester A. Limpert and Alexander S. Limpert, Bay Shore, N. Y.
Application July 24, 1937, Serial No. 155,510
4 Claims. (Cl. 62—126)



2. A cooling unit for refrigeration purposes, comprising a metal base member, a refrigerant coil thermally associated therewith and a shell of heat-insulation material, having an open bottom, supported within said coil and in spaced relation thereto.

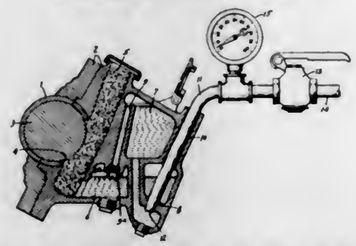
2,158,878
ELECTRIC CONTROL SYSTEM
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application January 2, 1936, Serial No. 57,190. Divided and this application July 8, 1936, Serial No. 89,598
13 Claims. (Cl. 172—274)

1. In combination, an alternating current circuit, a dynamo-electric machine having a field winding, a translating circuit comprising an electric valve for energizing said field winding, and means comprising a source of alternating voltage and a non-linear resonant circuit energized from said alternating current circuit for providing conjointly a periodic potential to control the conductivity of said electric valve to change progressively the energization of said field winding in one direction for a predetermined direction of



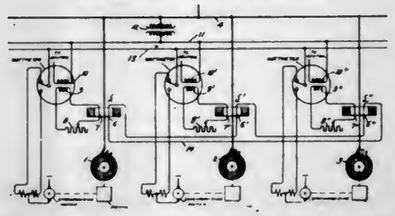
change of an electrical condition of said machine within a predetermined range of said condition and to change progressively in the opposite direction the energization of said field winding for the same direction of change of said condition within a different predetermined range of said condition.

2,158,879
LUBRICATING DEVICE
Charles R. Manning, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application March 28, 1934, Serial No. 717,770
Renewed December 21, 1938
5 Claims. (Cl. 308—126)



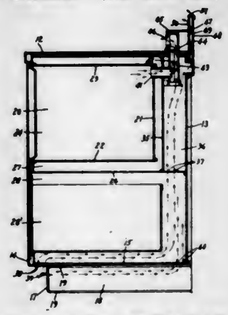
1. A lubricating device for a bearing comprising a storage reservoir adapted to contain lubricant below atmospheric pressure, an outlet from said reservoir for supplying lubricant to a chamber feeding lubricant to said bearing, means for supplying lubricant under pressure to said storage reservoir, means for preventing substantial flow of lubricant from said reservoir to said chamber during filling, said reservoir having an upwardly extending vent passage communicating at the upper end thereof with the upper portion of said reservoir above the normal level of lubricant therein and communicating with said feeding chamber at the lower end thereof, the lower end of said vent passage opening at the normal level of lubricant in said feeding chamber and thereby controlling the admission of air to said reservoir and the flow of lubricant therefrom, said vent passage providing for the escape of air from said reservoir during filling and being sufficiently restricted to cause a rise in pressure in said reservoir upon the flow of lubricant through said restriction during the filling of said reservoir, and means responsive to the rise in pressure in said reservoir upon the flow of lubricant through said restricted passage during filling for indicating the level of lubricant in said reservoir during filling the same.

2,158,880
PARALLEL CIRCUIT CONTROL
Paul Mathews, Rugby, England, assignor to General Electric Company, a corporation of New York
Application January 22, 1938, Serial No. 186,380
In Great Britain August 5, 1937
4 Claims. (Cl. 171—119)



1. In combination, a plurality of parallel connected alternating current circuits, a separate transformer associated with each of said circuits, each of said transformers having a primary winding and two secondary windings, each of said primary windings being connected to carry a current corresponding to the current in its associated circuit, a circuit containing one secondary winding of each of said transformers serially connected therein, separate electro-responsive devices which have an operating winding, and circuit connections for connecting each of said windings to a different one of the remaining secondary windings independently of the other secondary windings.

2,158,881
RANGE
Francis H. McCormick, Glen Ellyn, Ill., assignor to Edison General Electric Appliance Company, Chicago, Ill., a corporation of New York
Application May 7, 1935, Serial No. 20,145
9 Claims. (Cl. 126—39)



1. A range comprising walls defining a substantially rectangular cabinet, walls within said cabinet forming a heating chamber spaced from the rear wall of said cabinet, a vertical flue within said space extending substantially through the width of said heating chamber, a conduit connecting the upper portion of said heating chamber with said flue so that vapors and hot air in said chamber can flow directly into said flue, said flue having an opening in the lower portion thereof through which air flows into said flue upwardly therein to the upper portion thereof, the flow of air in said flue thermally insulating said heating chamber from the rear wall of said cabinet so that the temperature of said wall is maintained sufficiently low to permit said wall to be presented flush with the wall of a room, a conduit in the

upper portion of said flue diverting a portion of the air flowing in said flue into the path of the hot air and vapors issuing from said heating chamber, where the air mixes with said hot air and vapors, said conduit means having a discharge outlet opening toward the front of said range, and a second conduit in the upper portion of said flue arranged to direct the remainder of the air flowing in said flue upwardly back of said first flue to thermally insulate it from the back wall of said cabinet, said last named conduit having a discharge outlet for said air opening above the discharge outlet of said first conduit.

2,158,882

PHOTOGRAPHIC EMULSION

Charles E. K. Mees, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 16, 1937, Serial No. 120,966
17 Claims. (Cl. 95—7)



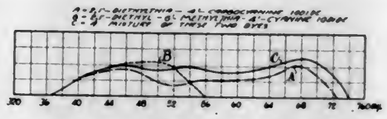
1. A photographic silver halide emulsion containing a supersensitizing combination of at least one sensitizing dye selected from the group consisting of 8-alkylthiacarbocyanine dyes, 8-alkylselenacarbocyanine dyes, 8-alkylthiaselenacarbocyanine dyes, 8-alkylbenzothiacarbocyanine dyes, 8-alkylselenabenzothiacarbocyanine dyes and 8-alkyldibenzothiacarbocyanine dyes with at least one sensitizing pseudocyanine dye.

2,158,883

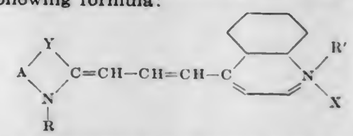
PHOTOGRAPHIC EMULSION CONTAINING SUPERSENSITIZED-4'-CARBOCYANINES

Charles E. K. Mees, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application March 29, 1937, Serial No. 133,583
14 Claims. (Cl. 95—7)



1. A photographic silver halide emulsion containing a supersensitizing combination of at least one sensitizing dye selected from the group consisting of pseudocyanine and isocyanine dyes, together with at least one sensitizing dye selected from the group of 4'-carbocyanine dyes having the following formula:



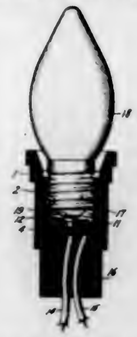
wherein A represents a divalent aryl group selected from the group consisting of phenylene and naphthylene groups, R and R' represent alkyl groups, Y represents an atom selected from the group consisting of oxygen, sulfur and selenium atoms and X represents an acid radical.

2,158,884

ELECTRIC LAMP

Adolf G. Mueller, Stratford, Conn., assignor to General Electric Company, a corporation of New York

Application June 9, 1936, Serial No. 84,303
9 Claims. (Cl. 173—346)



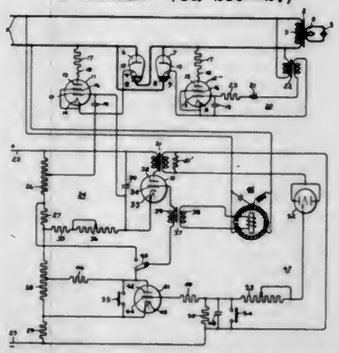
1. In an electric socket, a husk, a unitary assembly fixed therein comprising a screw shell having an inwardly extending flange, a member of insulating material in said screw shell substantially closing the shell, said member being movable inward in said shell by a plug threaded in the shell, line terminals carried by the screw shell, and a spring within the shell and carried thereby above said flange and connected in the circuit from one of the line terminals to the screw shell, said spring being normally spaced from said flange to interrupt said circuit and biasing said member outward, and said member moving said spring into contact with said flange as said member is moved inward, thereby completing the circuit from the line terminal to the screw shell.

2,158,885

ELECTRIC VALVE CIRCUIT

Harry L. Palmer, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application April 24, 1937, Serial No. 138,775
8 Claims. (Cl. 250—27)



1. A power circuit comprising a source of periodic current, a load circuit, means including an electronic discharge device provided with a control member for controlling the flow of current from said source to said load circuit, means for applying to said control member a bias voltage and a voltage sufficient to overcome said bias voltage to render said device conductive, means

including a second electronic discharge device for applying to the control member of said first discharge device a second bias voltage to render said first discharge device nonconductive when said second discharge device is conductive, said second electronic discharge device having a control grid, means for impressing on said grid a potential tending to maintain said second discharge device nonconductive, and a time delay circuit comprising an energy storage device for impressing on said grid a voltage to render said second discharge device conductive in accordance with the integrated value of the current transmitted by said first mentioned discharge device.

2,158,886

COOLING MEANS FOR MIRRORS USED WITH ARC LAMPS

Walter Petermann, Berlin-Siemensstadt, Germany, assignor to Opticolor Aktiengesellschaft, Glarus, Switzerland, a corporation of Switzerland

Application July 24, 1937, Serial No. 155,451
In Germany August 5, 1936
9 Claims. (Cl. 240—47)



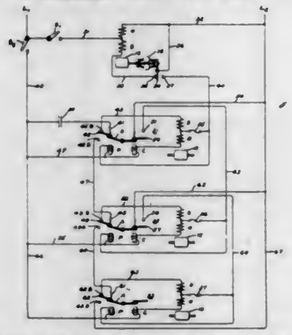
1. In combination, a concave mirror adapted to be used with a lamp, an elongated passage on the rear of said mirror and having its longitudinal axis extending around the center and along the rear surface of the mirror closely adjacent thereto and gradually decreasing in depth along said axis and having a discharge outlet extending substantially tangentially of said rear surface.

2,158,887

ELECTRICAL SEQUENCING CONTROL

Alva L. Sweet, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 30, 1937, Serial No. 139,895
9 Claims. (Cl. 172—279)



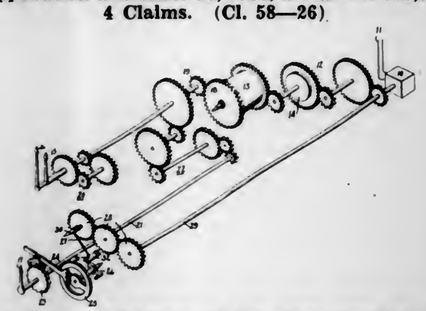
1. In combination, a plurality of electric motors, each having a starting winding and a running winding, a common starting condenser for said motors, means for energizing said motors in sequence, including a plurality of electroresponsive devices, each for separately connecting said condenser in series circuit with the starting winding of a corresponding motor only during the starting period thereof and thereafter opening said circuit, and connections jointly controlled by said electroresponsive devices whereby said condenser is connected in parallel circuit with the running windings of said motors after the sequential starting thereof.

2,158,888

SYNCHRONIZED ESCAPEMENT CLOCK

Henry E. Warren, Ashland, Mass., assignor to Warren Telechron Company, Inc., Ashland, Mass., a corporation of Massachusetts

Application December 19, 1934, Serial No. 758,304
4 Claims. (Cl. 58—26)



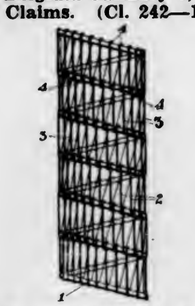
2. In a mechanism of the class described, a balance wheel, a synchronous motor, a control wheel driven from said motor, and a spring anchored at one end to said control wheel and having its opposite end free, the free end of said spring moving in the path of the periphery of said balance wheel and being adapted to brush against the periphery of the balance wheel for giving a slight forward impulse to the balance wheel in synchronous time.

2,158,889

SPOOL SUPPORT OR CORE FOR THE DYEING AND FOR THE TREATMENT OF TEXTILES ON SPOOLS

Joseph Annicq, Renaix, Belgium

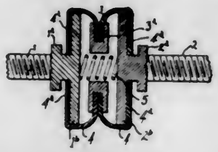
Application October 14, 1937, Serial No. 169,010
In Belgium January 7, 1937
2 Claims. (Cl. 242—118)



1. A skeleton core forming a spool for supporting textile yarns and the like and comprising a single strand of wire bent to form a multiplicity of continuously connected loops having relatively long straight side portions and relatively narrow bends at the ends of said sides,

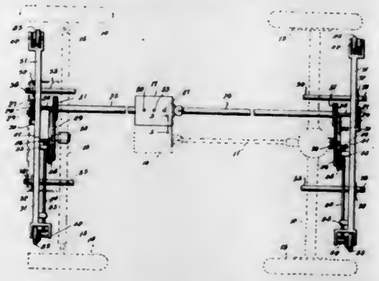
said multiplicity of loops being disposed in a helical form having a series of convolutions wherein the ends of the loops of each convolution overlap the oppositely disposed ends of the loops in the next adjacent convolution, and a second wire extending helically through the overlapping end portions of the loops.

2,158,890
CONNECTION DEVICE
Louis Xavier Antelme, Paris, France
Application November 12, 1936, Serial No. 110,525
In France November 13, 1935
2 Claims. (Cl. 287—85)



1. A connection device of the character described comprising a pair of spindles, a pair of discs each mounted on one end of each of said spindles, a circular member having a bore formed through its central portion, a pair of elastic members each connecting one of said discs to said circular member for supporting said circular member in a position relative to and between said discs and resilient means positioned through and guided by the bore of said circular member and having each end against a face of one of said discs.

2,158,891
PARKING MECHANISM FOR AUTOMOBILES
Andrew Beacher, Lexington, Ill.
Application May 12, 1938, Serial No. 207,635
3 Claims. (Cl. 180—1)



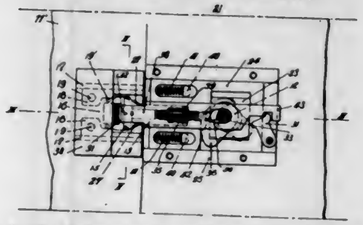
1. In combination with a self-propelled vehicle, means driven by the engine thereof, a pair of lifting arms adjacent the front of the vehicle, a pair of lifting arms adjacent the rear of the vehicle, enmeshed gear teeth at the inner ends of each pair to cause the lifting arms to simultaneously rise and to simultaneously fall, means pivotally mounting each arm between its outer end and said enmeshed gear teeth, mechanism to drive the lifting arms into engagement with the ground at their outer ends through said driven means, including gear segments on an arm of each pair inwardly of the axis of that arm, a shaft extending longitudinally of the vehicle, and gearing on the shaft enmeshed with the segments.

2,158,892
WIRE SPLICE
Robert A. Becker, Sr., and Stephen P. Becker, Poughkeepsie, N. Y.; Stephen P. Becker, executor of Robert A. Becker, Sr., deceased, assignors to Stephen P. Becker, Poughkeepsie, N. Y.
Application June 22, 1936, Serial No. 86,599
1 Claim. (Cl. 24—126)



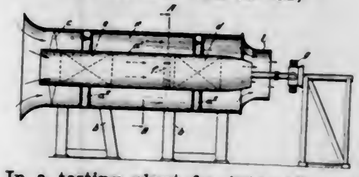
For use in a device of the class described, a follower having lugs struck therefrom to provide openings, jaw members, said members having terminal hooks adapted to engage in the openings, and with the lugs.

2,158,893
DOOR TENSION DEVICE FOR MOTOR VEHICLES
Hans Beiersdorf, Berlin-Dahlem, Germany
Application August 12, 1936, Serial No. 95,662
In Germany August 13, 1935
10 Claims. (Cl. 292—169)



1. A door tension device for motor vehicles, comprising in combination with a door lock having means for holding said device in a locking position when the door is closed, a keeper mounted in the door jamb and having arranged therein a pair of pivotally mounted jaws arranged in spaced relation, a lock casing adapted to be secured in the door, and a tensioning member and catch bolt each slidably mounted therein, said tensioning member and catch bolt having common actuating means whereby release of the tensioning member from said jaws and the disengagement of the catch bolt from the keeper is effected substantially at the same time.

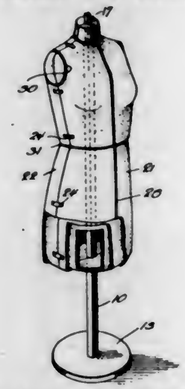
2,158,894
TESTING PLANT FOR INTERNAL COMBUSTION ENGINES
Wilhelm Brintzinger, Berlin-Johannisthal, Germany
Application May 20, 1936, Serial No. 80,863
In Germany May 21, 1935
8 Claims. (Cl. 73—51)



1. In a testing plant for internal combustion engines, particularly for motors for air craft of the character described comprising in combination: a braking device; a blower for producing cooling air for the motor being tested, a cylindrical

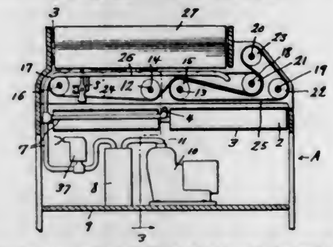
wind channel within which the said brake and blower are arranged in axial alignment with said wind channel, said wind channel being shaped to provide a nozzle directing the cooling air towards the motor being tested.

2,158,895
DRESSMAKER FORM
Froye Brown, Miami, Fla.
Application February 14, 1938, Serial No. 190,488
4 Claims. (Cl. 223—68)



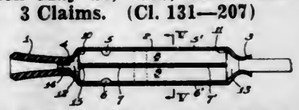
1. A dressmaker form of the character described comprising a main pedestal having an angular top portion, a yoke member removably supported thereon, and a plurality of nested forms carried by said yoke member, each form comprising two halves detachably connected along their sides whereby an outer form may be easily removed to obtain access to a small inner form, each of said forms including a body portion, a hip portion and a neck portion, the neck portion being substantially closed at the top and having an angular recess through which the top portion of said pedestal extends and fits to prevent relative turning movement.

2,158,896
AUTOMATIC FOLDING MACHINE
Roland W. Charles, James George, and Plato A. Spilios, South Boston, Mass.
Application March 15, 1938, Serial No. 196,080
6 Claims. (Cl. 270—69)



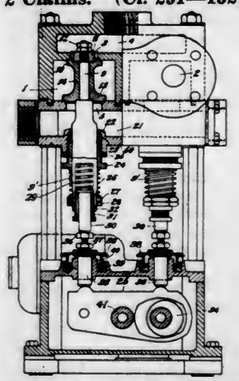
1. In an article folding apparatus, sets of roller-supported belts having horizontal flights, one belt having a portion converging from one roller to a second roller where it contacts and travels with the belt passing over the second roller, fluid pressure means for forcing a portion of the article against said converging portion of the belt, where it will be gripped by said portion and the other belt and folded, said belts cooperating to convey the article to the upper flight of one of the belts for feeding the article to a subsequent folding mechanism, and means for conveying an article to position a portion thereof between the pressure means and the space formed by the converging part of said belt.

2,158,897
SMOKING DEVICE
Giuseppe Cippico, Rome, Italy
Application May 21, 1937, Serial No. 143,920
3 Claims. (Cl. 131—207)



1. A smoker's appliance comprising a filter chamber disposed between and in communication with a means for supporting tobacco in form for smoking and a mouthpiece, said filter chamber being provided with a plurality of substantially parallel imperforate smoke passages in communication with the mouthpiece and tobacco-supporting means, said smoke passages having their longitudinal axes disposed in a horizontal plane coplanar with the major axis of the tobacco-supporting means and mouthpiece in normal smoking position, a separable joint in said filter chamber between the ends thereof, said joint incorporating substantially flat, telescopically engaged surfaces providing positive horizontal co-planar alignment of the axes of the smoke passages and major axis of the appliance.

2,158,898
CONTROL VALVE FOR LIQUID ELEVATING APPARATUS
William Herbert Exley, Market Harborough, and Walter Haddon, Forest Hill, London, England
Application October 12, 1936, Serial No. 105,347
In Great Britain October 15, 1935
2 Claims. (Cl. 251—132)



1. In a liquid elevating apparatus of the kind specified, a resiliently mounted valve, a hollow valve spindle carrying the valve at one end thereof, an adjustable spiral spring arranged within the end of the valve spindle remote from the valve to impart resiliency thereto, a stuffing box containing packing, and through which the valve spindle passes, a second adjustable spiral spring arranged outside the valve spindle on the side of the stuffing box remote from the valve and forcing the valve spindle through the stuffing box containing the packing and through which the valve spindle passes, a valve operating plunger coaxial

with the valve spindle and engaging the resilient valve spring, the said plunger containing two relatively separable coaxial portions and means to vary the relative distance between said portions, and the lower portion containing a cup-shaped shield extending adjustably into an oil well.

2,158,899
DISPERSIBLE SULPHUR AND METHOD OF MAKING THE SAME
Roy M. Gideon, Palmyra, N. J., assignor to MacAndrews and Forbes Company, Camden, N. J., a corporation of New Jersey
No Drawing. Application July 21, 1937, Serial No. 154,935
9 Claims. (Cl. 252—6)

6. The method of producing a wettable sulphur product which comprises mixing finely divided sulphur and an alkaline secondary licorice extract obtained by the digestion of spent licorice root with caustic alkali in the presence of a minimum amount of water to form a thick, plastic mass at approximately room temperature, the percentage of said extract being approximately 3% to 10% of the weight of the sulphur on a dry basis, then heating said plastic mass while continuously agitating it until substantially all of the moisture has been removed therefrom to produce a dry granular material, and thereafter grinding said mass to predetermined fineness.

9. A dry, wettable sulphur product comprising a dry, finely divided mixture of finely divided sulphur and an alkaline secondary licorice extract, the percentage of said extract obtained by the digestion of spent licorice root with caustic alkali being approximately 3% to 10% of the weight of the sulphur on a dry basis.

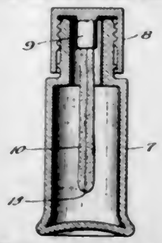
2,158,900
MACHINE FOR CUTTING SHEET GLASS
Felicien (Felix) Goffaux, deceased, late of Shreveport, La., by Lydia Dierick Goffaux, administratrix, New York, N. Y.
Application December 31, 1937, Serial No. 182,882
19 Claims. (Cl. 49—48)



1. In sheet glass cutting apparatus an endless conveyer having a plurality of parallel slats forming a cutting table, a plurality of glass scoring cutters associated with said table and positioned above the same, means including a plurality of fracturing pins mounted in each slat for breaking the glass along the score made by said cutters, means beneath the glass carrying strand of the conveyer for actuating said pins, means for driving said conveyer including a drum having a plurality of surface corrugations for receiving said slats, hinge means having rollers holding said slats together, and an auxiliary drum having a corrugated periphery arranged to receive said rollers in driving relation.

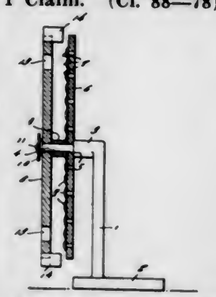
2,158,901
CONTAINER AND APPLICATOR FOR COSMETICS
M. Martin Gordon, Chicago, Ill.
Application October 31, 1938, Serial No. 237,855
5 Claims. (Cl. 91—67.2)

1. A container and applicator for cosmetics, comprising a bottle, a closure for the bottle having an inwardly extending hollow projection, an applicator member made of a section of twisted wire with absorbent material bound therein bent



back upon itself to provide a rounded extremity and haying the ends also bent back upon the adjacent portions to form a holding portion, said holding portion fitting in the hollow projection and held therein by an adhesive.

2,158,902
CHANGEABLE SIGN
Raymond A. Gray, Rock, Kans.
Application April 19, 1938, Serial No. 202,975
1 Claim. (Cl. 88—78)

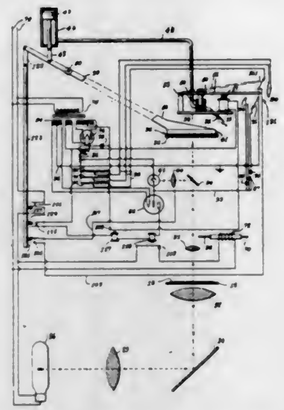


A highway sign comprising, in combination, a base, a post rising from said base, an arm extending horizontally from the upper portion of the post, a spindle projecting longitudinally from the free end of said arm, said spindle being smaller than the arm for providing a shoulder, a stationary disc mounted on the spindle in abutting engagement with the shoulder, a plurality of reflector buttons mounted on said stationary disc, a rotary disc journalled on the spindle in opposed relation to the stationary disc, a spacing collar on the spindle between the rotary and stationary discs, said rotary disc having a plurality of openings therein for the reflection of light from the buttons, means on the spindle for retaining the rotary disc thereon, and a plurality of wind blades mounted on the periphery of the rotary disc for actuating same.

2,158,903
PHOTO-PRINTING APPARATUS
Max Knobel, Arlington, Mass., assignor to Block-Jones Photo Co., Inc., Dorchester, Mass., a corporation of Massachusetts
Application January 20, 1938, Serial No. 185,879
8 Claims. (Cl. 88—24)

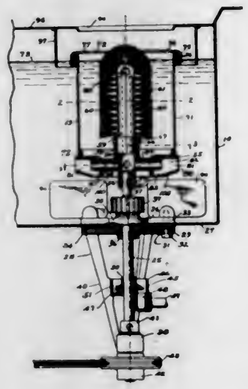
1. In a photo-printing apparatus, a light sensitive cell arranged to receive a definite portion of light passing through the negative being printed, a plurality of electric condensers respectively of different capacities arranged to be selectively associated with the cell and to have the electric

charge thereof varied by the cell in accordance with the light received by the cell, a plurality of variable potentiometers respectively associated with the condensers to predetermine the original voltage across the condensers, a switch for selectively associating the condensers with the cell,



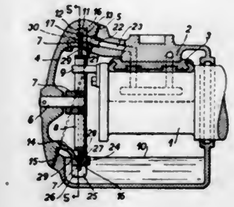
and means associated with the cell for terminating the printing exposure when the condenser selected is brought to a predetermined charge, variation of said original voltage by the potentiometers being adapted to vary the time period for said termination of the printing exposure.

2,158,904
WASHING MACHINE
David A. Meeker and Herbert L. Johnston, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application May 22, 1933, Serial No. 672,130
26 Claims. (Cl. 15—76)



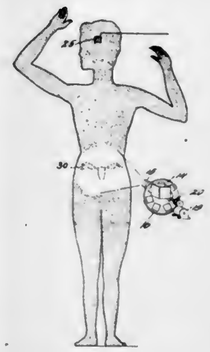
1. In a washing machine for tumblers and the like, a tank for washing fluid, vertically extending rotary brushing means in said tank adapted to receive a tumbler in inverted telescoping engagement with the lower open end submerged, and pumping means operable with the brushing means for circulating the washing fluid upwardly along the exterior and interior surfaces of the tumbler wall toward the tumbler bottom.

2,158,905
AXLE BEARING FOR RAILWAY VEHICLES
Gustav Nemetz, Vienna, Austria, assignor to firm Alex. Friedmann, Vienna, Austria
Application February 5, 1937, Serial No. 124,302.
In Austria July 25, 1936
8 Claims. (Cl. 308—85)



1. An axle bearing for railway vehicles, comprising a casing containing an oil sump, a cover resting upon this casing along an inclined plane and being provided with a recess on the inside of its upper part, a rotating oil lifting member carried by said cover and dipping into said oil sump, an annular casing secured to said cover and engaging into said recess, said casing surrounding said oil lifting member around its whole periphery and being provided with accumulating grooves at its inner side adjacent to said member, said grooves extending along the periphery of said member and having their lower inlet openings situated beneath the level of said oil sump, and channels to lead oil under pressure from the upper outlet openings of said grooves to the working surfaces to be lubricated.

2,158,906
DEMONSTRATION APPARATUS
Frank H. Netter, New York, N. Y.
Application December 7, 1938, Serial No. 244,471
9 Claims. (Cl. 35—17)



1. A display device, including a three-dimensional member of sufficient thickness to present the illusion of solidity and substantially conforming in shape and general appearance to at least a portion of a three-dimensional physical structure, and having at least a portion thereof of limited transparency, and means to produce an illuminated image on the side of said member adjacent said transparent portion, and remote from an observer, so that said image appears to be integral with said member.

with the valve spindle and engaging the resilient valve spring, the said plunger containing two relatively separable coaxial portions and means to vary the relative distance between said portions, and the lower portion containing a cup-shaped shield extending adjustably into an oil well.

2,158,899
DISPERSIBLE SULPHUR AND METHOD OF MAKING THE SAME
Roy M. Gideon, Palmyra, N. J., assignor to MacAndrews and Forbes Company, Camden, N. J., a corporation of New Jersey
No Drawing. Application July 21, 1937, Serial No. 154,935
9 Claims. (Cl. 252—6)

6. The method of producing a wettable sulphur product which comprises mixing finely divided sulphur and an alkaline secondary licorice extract obtained by the digestion of spent licorice root with caustic alkali in the presence of a minimum amount of water to form a thick, plastic mass at approximately room temperature, the percentage of said extract being approximately 3% to 10% of the weight of the sulphur on a dry basis, then heating said plastic mass while continuously agitating it until substantially all of the moisture has been removed therefrom to produce a dry granular material, and thereafter grinding said mass to predetermined fineness.

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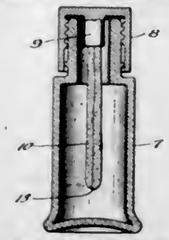
2,158,900
MACHINE FOR CUTTING SHEET GLASS
Felicien (Felix) Goffaux, deceased, late of Shreveport, La., by Lydia Dierick Goffaux, administratrix, New York, N. Y.
Application December 31, 1937, Serial No. 182,882
19 Claims. (Cl. 49—48)



1. In sheet glass cutting apparatus an endless conveyer having a plurality of parallel slats forming a cutting table, a plurality of glass scoring cutters associated with said table and positioned above the same, means including a plurality of fracturing pins mounted in each slat for breaking the glass along the score made by said cutters, means beneath the glass carrying strand of the conveyer for actuating said pins, means for driving said conveyer including a drum having a plurality of surface corrugations for receiving said slats, hinge means having rollers holding said slats together, and an auxiliary drum having a corrugated periphery arranged to receive said rollers in driving relation.

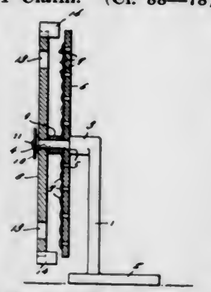
2,158,901
CONTAINER AND APPLICATOR FOR COSMETICS
M. Martin Gordon, Chicago, Ill.
Application October 31, 1938, Serial No. 237,855
5 Claims. (Cl. 91—67.2)

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back upon itself to provide a rounded extremity and having the ends also bent back upon the adjacent portions to form a holding portion, said holding portion fitting in the hollow projection and held therein by an adhesive.

2,158,902
CHANGEABLE SIGN
Raymond A. Gray, Rock, Kans.
Application April 19, 1938, Serial No. 202,975
1 Claim. (Cl. 88—78)

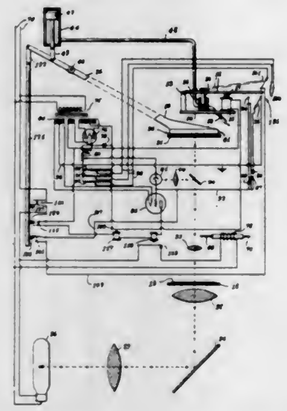


A highway sign comprising, in combination, a base, a post rising from said base, an arm extending horizontally from the upper portion of the post, a spindle projecting longitudinally from the free end of said arm, said spindle being smaller than the arm for providing a shoulder, a stationary disc mounted on the spindle in abutting engagement with the shoulder, a plurality of reflector buttons mounted on said stationary disc, a rotary disc journalled on the spindle in opposed relation to the stationary disc, a spacing collar on the spindle between the rotary and stationary discs, said rotary disc having a plurality of openings therein for the reflection of light from the buttons, means on the spindle for retaining the rotary disc thereon, and a plurality of wind blades mounted on the periphery of the rotary disc for actuating same.

2,158,903
PHOTO-PRINTING APPARATUS
Max Knobel, Arlington, Mass., assignor to Block-Jones Photo Co., Inc., Dorchester, Mass., a corporation of Massachusetts
Application January 20, 1938, Serial No. 185,879
8 Claims. (Cl. 88—24)

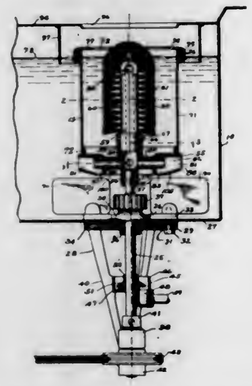
1. In a photo-printing apparatus, a light sensitive cell arranged to receive a definite portion of light passing through the negative being printed, a plurality of electric condensers respectively of different capacities arranged to be selectively associated with the cell and to have the electric

charge thereof varied by the cell in accordance with the light received by the cell, a plurality of variable potentiometers respectively associated with the condensers to predetermine the original voltage across the condensers, a switch for selectively associating the condensers with the cell,



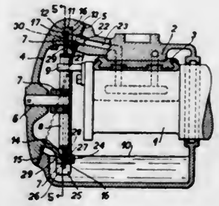
and means associated with the cell for terminating the printing exposure when the condenser selected is brought to a predetermined charge, variation of said original voltage by the potentiometers being adapted to vary the time period for said termination of the printing exposure.

2,158,904
WASHING MACHINE
David A. Meeker and Herbert L. Johnston, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application May 22, 1933, Serial No. 672,130
26 Claims. (Cl. 15—76)



1. In a washing machine for tumblers and the like, a tank for washing fluid, vertically extending rotary brushing means in said tank adapted to receive a tumbler in inverted telescoping engagement with the lower open end submerged, and pumping means operable with the brushing means for circulating the washing fluid upwardly along the exterior and interior surfaces of the tumbler wall toward the tumbler bottom.

2,158,905
AXLE BEARING FOR RAILWAY VEHICLES
Gustav Nemetz, Vienna, Austria, assignor to firm Alex. Friedmann, Vienna, Austria
Application February 5, 1937, Serial No. 124,302
In Austria July 25, 1936
8 Claims. (Cl. 308—85)



1. An axle bearing for railway vehicles, comprising a casing containing an oil sump, a cover resting upon this casing along an inclined plane and being provided with a recess on the inside of its upper part, a rotating oil lifting member carried by said cover and dipping into said oil sump, an annular casing secured to said cover and engaging into said recess, said casing surrounding said oil lifting member around its whole periphery and being provided with accumulating grooves at its inner side adjacent to said member, said grooves extending along the periphery of said member and having their lower inlet openings situated beneath the level of said oil sump, and channels to lead oil under pressure from the upper outlet openings of said grooves to the working surfaces to be lubricated.

2,158,906
DEMONSTRATION APPARATUS
Frank H. Netter, New York, N. Y.
Application December 7, 1938, Serial No. 244,471
9 Claims. (Cl. 35—17)



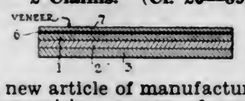
1. A display device, including a three-dimensional member of sufficient thickness to present the illusion of solidity and substantially conforming in shape and general appearance to at least a portion of a three-dimensional physical structure, and having at least a portion thereof of limited transparency, and means to produce an illuminated image on the side of said member adjacent said transparent portion, and remote from an observer, so that said image appears to be integral with said member.

2,158,907
METHOD OF PRODUCING VENEERED PRODUCTS
Lawrence Ottinger, New York, N. Y., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York
Application February 9, 1937, Serial No. 124,903
1 Claim. (Cl. 144—309)



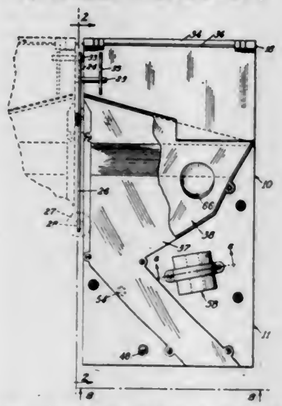
That method of making a wood veneer structure employing a coniferous core piece characterized by the presence of contrasting spring and summer growths and in which the grain of the core piece is entirely obscured by the veneer, which method consists in subjecting the core piece to the direct action of heat and compacting pressure to bring all exposed portions of the grain of the core piece into a common plane, and thereafter imposing upon and securing directly to such treated surface a hardwood veneer having a thickness not substantially exceeding 1/28".

2,158,908
VENEERED PRODUCT
Lawrence Ottinger, New York, N. Y., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York
Original application February 9, 1937, Serial No. 124,903. Divided and this application December 1, 1938, Serial No. 243,471
2 Claims. (Cl. 20—89)



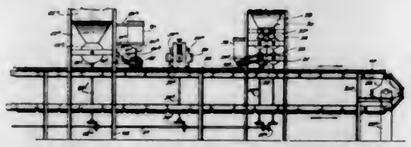
1. As a new article of manufacture, a veneered product comprising a core of coniferous wood characterized by the presence of contrasting spring and summer growths, said core having the grain upon at least one surface thereof compressed and lying in a single plane, and a thin hardwood veneer adhesively secured to said plane surface.

2,158,909
COIN AND SLUG SEPARATING DEVICE
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application March 16, 1936, Serial No. 69,147
6 Claims. (Cl. 194—101)



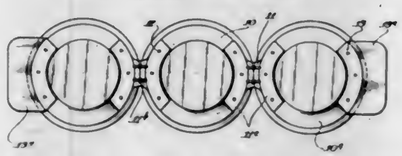
1. A coin chute including a substantially flat body providing a descending chute passage having a sidewise drop-out opening in one wall portion thereof and pivoted gate means normally closing said opening, magnetic means carried by a pivoted member mounted on the wall of said chute opposite said gate means and normally positioning a magnet member close to said passage, together with lever mechanism for moving both said gate means and pivoted member laterally of the chute body, said mechanism including a pair of levers pivotally mounted at an edge of said body for movement in a plane normal thereto, one of said levers having a yoke-like cam formation and the other said lever having a cam finger receivable in said cam formation whereby said levers are interconnected for joint movement, said levers respectively having operative connection with said gate means and pivoted member to move the same laterally as aforesaid responsive to movement of one of said levers.

2,158,910
PIE MAKING MACHINE
Sidney H. Pellar, Chicago, Ill.
Application February 29, 1936, Serial No. 66,486
12 Claims. (Cl. 107—1)



1. A pie making machine comprising, means for forming continuously a continuous ribbon-like sheet of dough and continuously feeding the same at one level, means for continuously moving said sheet in one direction, means for treating said sheet to render at least the upper surface thereof non-tacky, a unit continuously and progressively impressing substantially said entire moving sheet with cavities, means for successively filling said cavities as said sheet moves along, means for simultaneously forming and continuously feeding a second continuous ribbon-like sheet of dough upon said first sheet to overlie the same and said filled cavities, and means for separating the completed assemblies of dough sheets to define the pies.

2,158,911
PIE PLATE
Sidney H. Pellar, Chicago, Ill.
Application May 5, 1937, Serial No. 140,931
1 Claim. (Cl. 53—6)



A connector for pie plates grouped laterally comprising a joining plate beneath the rims of the pie plates in the meeting zone, wings extended from the joining plate to facing sides of the pie plates, and means to secure said wings to such facing sides, said sides being inclined and with a conical curvature, and said wings being deflected and inwardly concaved to conform with the inclination and curvature of said sides and at least one corrugation formed in said joining plate, said corrugation extending in a direction transverse of the meeting line of the pie plates, whereby to render the joining plate rigid in respect to strains imposed on the pie plates.

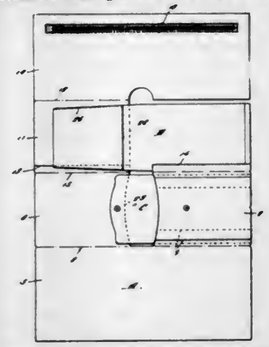
2,158,912
BEATER
Anthony J. Piperi, Galveston, Tex.
Application January 10, 1939, Serial No. 250,207
2 Claims. (Cl. 259—128)



1. In a foodstuff beater, a spirally grooved shank provided at one end thereof with an integral head, a driving handle mounted on the shaft to travel lengthwise thereof in opposite directions and provided to act to rotate the shank when moved in one direction, said shank and head being formed of a plurality of strands of wire, said wire strands at one end thereof being relatively twisted together to form said spirally grooved shank, and having the free ends thereof bent outwardly and upwardly, and merging into beater elements converging towards the shank at the free ends of said beater elements, and a spacer ring connected with the free ends of the beater elements, and a tapered coil spring arranged within said head and disposed about said shank, said coil spring having the major end thereof engaging the portions of the wire rods forming said head with the minor end of said spring arranged in the path of said driving handle to be engaged thereby upon movement of the driving handle in one direction relative to said shank, said driving handle including an elongated tubular part accommodating said shank, and a tie member on the free end of said shank to hold the relatively twisted shank-forming portions of said wire strands together.

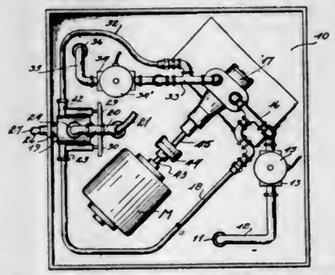
2,158,913
BILLFOLD
Arthur Rauhaus, Kittanning, Pa.
Application June 10, 1938, Serial No. 213,019
3 Claims. (Cl. 150—36)

1. A billfold comprising a plurality of pieces of flexible material including a pair of main members each embodying a panel section and a half panel section projecting from one longitudinal side edge of the panel, stitching securing said half panel sections together and a second half panel section on one of the panels having fold lines to form gussets defining the opposite side edges of a pocket when the sections are folded upon each other in a predetermined manner, said panels and half panels when folded cooperating to form a pocket at one end of the billfold, a strip of material secured along one longitudinal edge to said last named half panel and having a free end



slidably inserted in said last named pocket and a pocket carried by the inserted end of said strip.

2,158,914
OIL CASE DRAINING AND CLEANING APPARATUS
Joseph H. Rinehart, Fort Lee, N. J.
Application December 2, 1938, Serial No. 243,631
6 Claims. (Cl. 184—1.5)



1. In a cleaning and flushing apparatus, a pump, a motor connected to said pump, pipes each leading from one side of said pump and each provided with a normally closed valve, a master valve, pipes connected to the respective first mentioned pipes between the valves and pump and leading to said master valve, a suction and delivery pipe connected to the master valve and adapted by movement of the master valve for selective connection to the last mentioned pipes, and electrical means for simultaneously energizing said motor and selectively opening said normally closed valves.

2,158,915
RIFLE FRONT SIGHT ILLUMINATOR
Hilton B. Searcy, Gulfport, Miss.
Application April 7, 1937, Serial No. 135,607
1 Claim. (Cl. 240—6.41)

An illuminating device for a gun sight comprising a casing, a light source and a source of electricity in circuit with the light source housed within the casing, a switch carried by the casing controlling the light circuit, a housing of inverted U-shape cross section on the front end of the casing depending below the casing and having a downwardly and forwardly inclined front wall, there being an opening in said casing permitting downward projection of light rays directly upon the sight of the gun to which the device may be applied, the side walls of the in-

verted U-shaped housing being adapted to extend below the gun barrel at the sides thereof and the gun barrel being adapted to form a bottom for the housing, the gun barrel, the side walls and said downwardly inclined front wall coacting in preventing escape of light in any direction except directly down upon the gun sight, means



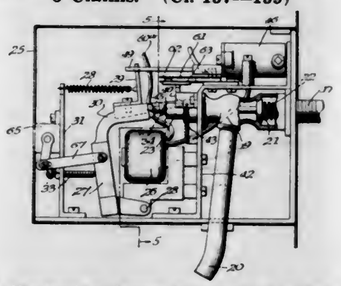
for attaching the housing and casing to a gun barrel in such manner that the shooter may view the illuminated gun sight underneath the casing, and a pair of wings carried by the housing and adapted to bear upon the base of the gun sight on opposite sides of the gun sight to properly locate the device on the gun barrel.

2,158,916
DISPENSING DEVICE

Manuel Theodore, Baltimore, Md., assignor to Measurite Products Company, Incorporated, Baltimore, Md., a corporation of Maryland

Application November 24, 1937, Serial No. 176,331

8 Claims. (Cl. 137—139)



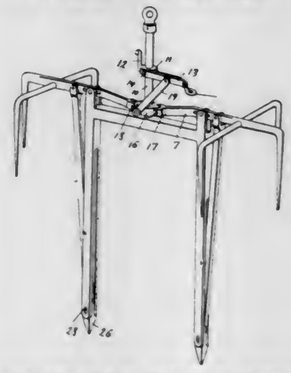
1. A dispensing device including a valve, means to normally hold said valve closed, valve operating means movable in one direction to open said valve, means to lock said valve in open position said valve operating means being movable in a return direction, independently of said valve, and being adapted to release said locking means at the conclusion of such return movement.

2,158,917
HAY UNLOADER

George N. Tolsted, Hales Corners, Wis.

Application September 22, 1938, Serial No. 231,271

1 Claim. (Cl. 294—128)



A hay grapple of the character described comprising a frame, a pair of pointed and swingable toe members at the lower portions of the frame, a pair of rockable arms at the upper portion of the frame, the outer end of each of the arms being provided with a fork, connecting means between the arms and the toes and means whereby the arms and toes can be operated simultaneously, said means including an upstanding post on the frame, a slide collar on the post to which the arms are pivotally secured, a lever mounted on the post, a link between the lever and the slide collar, and a pull line extending from the lever.

2,158,918
PROCESS FOR PRODUCING HUMUS FERTILIZER

Charles Samuel Townsend, Ealing, England, assignor to Wellesley Holdings Limited, London, England, a British company

No Drawing. Application August 3, 1937, Serial No. 157,221. In Great Britain August 10, 1936

3 Claims. (Cl. 71—24)

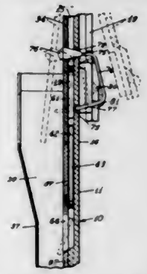
1. A process for converting peat into a humus fertilizer, comprising the steps of mixing therewith, a substantially small quantity of oleaginous fertilizer producing substance selected from the following group vegetable oils and animal oils; bone and bone meal or alkaline material, in such an amount as to maintain the mixture slightly alkaline, allowing the same to ferment at a temperature within the range of 20° C. to 85° C. for a period of time sufficient to convert the peat into humus and to cause the oleaginous substance to hydrolize and combine with said humus.

2,158,919
COIN AND SLUG SEPARATING DEVICE

Walter A. Tratsch and William Patzer, Chicago, Ill.

Application June 18, 1936, Serial No. 85,879

5 Claims. (Cl. 194—101)



1. A coin chute including a body member having a chute passage therein with a main entrance and exit opening, and a movable wall portion between said entrance and exit openings and arranged for movement outwardly of said body to provide a sidewise opening in said passage, a magnet carrier supported for movement at a point substantially opposite said movable wall portion and in a direction outwardly of said body, said carrier having a magnet and being normally positioned to support said magnet in close proximity to the fixed wall portion of said body opposite said movable wall portion so as to hold a magnetically attractable element against said fixed wall portion and release said element when said carrier is moved outwardly of said body, means in said chute effective to cause an attracted element to move sidewise out of the

chute when said movable wall portion and magnet carrier are moved, mechanism operable to move said carrier and said movable wall portion outwardly of said body at substantially the same time so as to release an element attracted as aforesaid for movement sidewise out of said passage, together with means for preventing the continued movement through said passage toward said exit opening of a free coin or element, said means being in the form of a U-shaped member attached at one extremity to said movable wall portion and passed through an opening in said fixed wall portion and bent back in a direction upon itself with its opposite extremity spaced from said movable wall portion and movable through an opening in said fixed wall portion to block said passage in the region below said sidewise opening when the movable wall portion is moved as aforesaid.

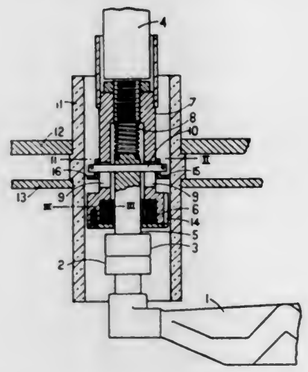
2,158,920
CIRCUIT BREAKER HAVING BUTT CONTACTS

George Ethelbert Whitehead, Cardiff, South Wales, assignor to Whitehead Switchgear and Inventions Limited, Cardiff, South Wales, a corporation of Great Britain

Application September 18, 1936, Serial No. 101,506

In Great Britain October 23, 1935

2 Claims. (Cl. 200—150)



1. A heavy current high speed oil circuit breaker comprising a terminal stem, a butt type main moving contact having a short stem, a carrier on which the stem of said moving contact is mounted rigidly, said carrier being movable longitudinally to close and open the circuit breaker, a similar butt fixed contact having a stem, a resilient sleeve contact in which the stem of said fixed contact is slidable longitudinally, a metal housing secured to the terminal stem of the circuit breaker and at the end of which said sleeve contact is carried rigidly, a spring in said housing urging said fixed butt contact towards the moving butt contact, an insulating shrouding tube housing said metal housing but with a restricted longitudinal oil passage therebetween, a partition sealed across the oil tank of the circuit breaker carrying said shrouding tube, and a valve member associated with said metal housing and linked with said fixed butt contact so that when the circuit breaker is closed said oil passage is open, and said oil passage becomes substantially closed when the circuit breaker is opened.

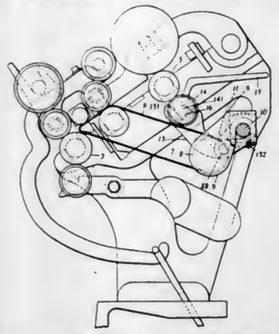
2,158,921
UNDERCLEARER MOUNTING IN TEXTILE SPINNING, PREPARING, AND LIKE MACHINES

William Wilson, Accrington, England, assignor to Howard and Bullough, Limited, Accrington, Lancashire, England, a British company

Application May 14, 1938, Serial No. 208,034

In Great Britain May 18, 1937

1 Claim. (Cl. 19—140)



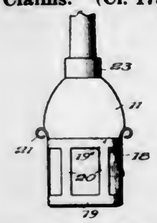
In a textile machine, a drafting roller, an underclearer roll, a shaft extending longitudinally throughout the machine, a bracket offset from said shaft, a rocking lever pivotally mounted on said bracket and supporting the underclearer roll at its free end, a finger-piece on said bracket for swinging the latter to a position in which the roll is easily available for stripping, and a tail-piece on said lever engageable with said shaft for limiting the movement of the lever.

2,158,922
UTENSIL PLUG

Emanuel B. Barnitz, Johnstown, Pa.

Application July 15, 1937, Serial No. 153,828

2 Claims. (Cl. 173—332)



2. A utensil plug including a multi-part body, and a clamping frame for holding said parts together, the frame comprising bands, one of which encircles the plug at the utensil engaging end of the latter, the other band encircling an intermediate part of the plug, said bands being connected by strips, the bands and strips being bowed inwardly for flexing engagement with the outer wall of the plug body.

2,158,923
CLOSURE FOR RECEPTACLES

Charles S. Baron, Tiffin, Ohio

Application July 6, 1938, Serial No. 217,757

15 Claims. (Cl. 65—31)

15. A cap for dispensing receptacles having its top provided with a spout opening and a spaced opposed slot, a displaceable member above the top having an end portion constituting a flap normally positioned to close the spout opening, the

opposed end portion of the displaceable member extending upwardly and outwardly to provide a thumb piece for actuating the flap, a depending member extending loosely through said slot, said depending member having means below the slot and within the cap arranged to engage the un-



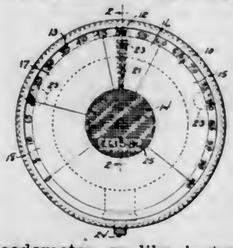
derside of the top to limit the upward movement thereof, and means connecting the depending member to the displaceable member above the top, said depending member coacting with the wall of the slot to provide a fulcrum support for the displaceable member when the latter is moved relative to said spout opening.

2,158,924
FISH LURE
Fletcher P. Bouton, St. Petersburg, Fla.
Application August 16, 1938, Serial No. 225,204
2 Claims. (Cl. 43—39)



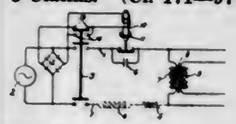
1. A lure comprising a member simulating a head of a natural object, a plate thereunder having deflecting fins, guard coverings having extensions lying between the member and the plate, a hook having a shank also lying between the member and the plate, fastenings for securing the aforesaid parts together, and a guard comprising a collapsible body interposed between the coverings.

2,158,925
INDICATING INSTRUMENT
Welca W. Braswell, Washington, D. C., assignor of one-half to Mattie B. Shinholser, Washington, D. C.
Application April 22, 1936, Serial No. 75,820
1 Claim. (Cl. 116—129)



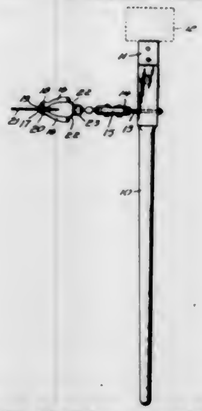
In a speedometer or like instrument, a dial formed with a series of distinctively colored translucent zones, an indicator mounted behind the dial for angular or turning movement with respect thereto and consisting of a disk having a central circular transparent zone and a surrounding opaque zone conterminous with all of the translucent zones, said disk being circumferentially recessed along its marginal edge to define an arrow head centrally of the recess and the disk having a window radiating in outwardly tapered formation from adjacent the transparent zone to adjacent the arrow head to define the stem of the arrow, a light source behind the indicator to direct light through the recess and window defining the arrow and through the translucent zones in the movement of the indicator, and the dial having a circular opaque zone corresponding to the transparent zone in the indicator and a transparent zone bounded by the opaque zone and through which the digits of an odometer may be observed.

2,158,926
ELECTRIC CIRCUIT
John W. Butler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 10, 1937, Serial No. 158,345
8 Claims. (Cl. 171—97)



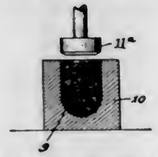
8. In combination, a standard commercial frequency alternating current power station, a power distribution circuit, a switch for connecting said circuit to said source, a distribution transformer connected across said circuit, a series capacitor connected in said circuit for neutralizing at least a portion of the inductance of said circuit, a time delay opening contactor short-circuiting said capacitor, said contactor being energized through a rectifier from across said source, and interlocking connections controlling the closing and time delayed opening of said contactor by the opening and closing respectively of said switch.

2,158,927
WIRE STRETCHER
John A. Davisson, Harrisville, W. Va.
Application November 1, 1937, Serial No. 172,268
1 Claim. (Cl. 254—77)



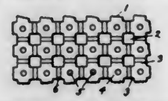
A wire stretcher comprising a handle lever, a toothed plate at one end of the handle lever adapted to be placed in engagement with a fence post, an eye bolt engaged through the handle lever, a clevis in interengagement with the eye bolt, a bar carried by the clevis, said clevis being located at substantially the center of the bar near one longitudinal edge thereof, a second clevis carried by the bar disposed upon the other longitudinal edge of the bar opposite the first named clevis, an eye bolt, a collar swivelly mounting the last named eye bolt and having an eye connected to the second named clevis, and a wire clamp secured to the last named eye bolt.

2,158,928
TOBACCO CARTRIDGE AND METHOD OF MAKING SAME
Sol Deich, New York, N. Y.
Application September 24, 1936, Serial No. 102,418
1 Claim. (Cl. 131—52)



The method of producing a tobacco cartridge which includes saturating shredded tobacco particles with a binder, compressing the saturated tobacco particles in a mold having a configuration coincident with the inside of a pipe bowl, removing the compressed cartridge from the mold and subjecting the compressed cartridge to a toasting temperature sufficient to remove excess moisture forming part of said binder.

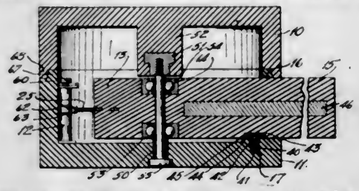
2,158,929
RESILIENT SHEET
Leonid A. Dunajeff, New York, N. Y., assignor to Commercial Ingredients Corporation, New York, N. Y., as trustee
Application May 14, 1937, Serial No. 142,630
7 Claims. (Cl. 29—180)



1. An expansive sheet having a plurality of portions connected by bridges with perforations between the bridges, every portion being connected by the bridges with at least three other portions, the bridges having corrugations directionally extending in a substantially transverse direction, the corrugations being interrupted by the perforations.

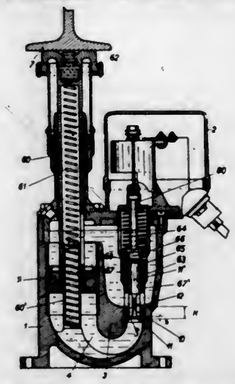
2,158,930
SWITCH
Carl I. Erickson, Glendale, Ariz.
Application July 1, 1937, Serial No. 151,501
4 Claims. (Cl. 200—15)

1. A switch for use in connection with the right and left bright light circuits, the right and left dimming circuits and the flasher circuit of an electrical signaling system for automotive vehicles, said switch comprising two spaced sets of three spaced contacts, one set for interposition in the bright light circuits and the other for interposition in the dimming circuits, two spaced pairs of spaced contacts, one of the contacts of each pair for interposition in a dimming circuit, the other contacts of said pairs for interposition in the flasher circuit, the contacts of said sets and pairs being disposed in a row corresponding to a segment of a circle, a normally latched oppositely rotatable non-conducting member arranged inwardly of and spaced from the several contacts, a set of four spaced blades secured to, bodily carried with and extending laterally from said member, two of the blades of said set of blades being of like width and of greater width than the other of said blades, the other of the said blades being of like width, said blades being



disposed on said member to provide, when the latter is latched, for each blade of greater width bridging the contacts of a set and for each of the other blades engaging a contact of a pair, a lever arm for rotating said member in opposite directions, and means for limiting the extent of the rotating movement of said member in opposite directions to provide for each widest blade bridging two of the contacts of a set, another one of said blades bridging the contacts of a pair and the other one of said blades clearing the contacts of the other pair of contacts.

2,158,931
SAFETY AND SIGNALING APPARATUS, IN PARTICULAR FOR RAILWAY CROSSINGS
Josef Fryba, Prague, Czechoslovakia
Application July 8, 1936, Serial No. 89,632
In Czechoslovakia July 18, 1935
2 Claims. (Cl. 246—251)



2. A track instrument for completing a circuit through a signaling device, comprising, a chamber rigidly mounted below the track, a piston of a given diameter arranged in a cylindrical portion of said chamber, a piston of a smaller diameter than said first mentioned piston operably mounted in another cylindrical portion of said chamber, a fluid supply within said chamber, a partition in said chamber positioned between said cylinders having communicating passages between said pistons, means for imparting movements of the track to said first mentioned piston, whereby the smaller piston is hydraulically moved a greater distance than said first mentioned piston, signal switch contacts

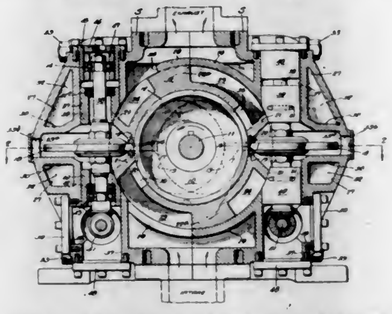
arranged for actuation by said smaller piston, the cylinder of the smaller piston fitting tightly against its piston along a portion of the length of the cylinder, said cylinder having a longitudinally extending groove in other portions of the cylinder wall, yieldable means associated with each end of the smaller piston whereby the hydraulic responsive movement of the smaller piston is opposed by either of said yieldable means, and abutments for limiting the movement of the smaller piston in response to said yieldable means.

2,158,932
FISHING ROD
Larkin J. Ford, Owensboro, Ky., assignor of one-half to William P. Hayden, Owensboro, Ky.
Application November 29, 1937, Serial No. 177,106
3 Claims. (Cl. 43—18)



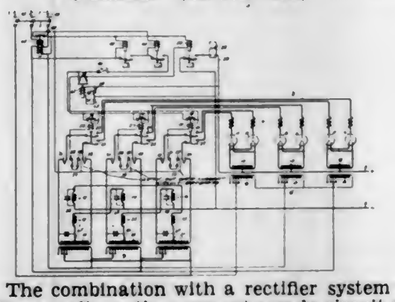
1. A fishing rod comprising a tapered rod like body formed from flexible wood and providing a core, relatively thin narrow strips of resilient metal secured to and extending longitudinally of the body with the inner longitudinal edges of the sides thereof disposed in edge to edge contact throughout the length of the strips for the latter to encase the body, said body having a reduced end portion providing a shoulder, a sleeve band disposed about the reduced end portion and abutting the shoulder, a plug abutting the opposite end of said body, said band and plug having the strips fixed thereto for holding the latter in tubular formation about the body, a handle secured to the body about the reduced end portion thereof and about the adjacent ends of the strips, a tip cap secured about the plug and the ends of the strips adjacent thereto, a line guide secured to the tip cap, thread wound about the exposed portions of the strips, and line guides secured to the strips by the thread.

2,158,933
ROTARY COMPRESSOR
Paul E. Good, Riverton, N. J.
Application July 26, 1937, Serial No. 155,810
18 Claims. (Cl. 230—150)



1. In a rotary pump of the type described, a rotor having an annular series of spirally extending grooves, an annulus surrounding the rotor and having external ribs defining a circumferential channel and a radially directed axially disposed slot, the outer faces of said ribs being disposed upon a common diameter, a casing element closing the channel and combining with that portion of the ribbing defining the slot to produce a piston housing, a rotary piston in and carried by said housing element having lobes meshing in said rotor grooves and successively blocking said grooves from end to end as the rotor is rotated, and means to supply fluid to said grooves, the inner wall of the channel having an exhaust port adjacent one face of the ribbing defining the slot and the channel having a delivery port.

2,158,934
PROTECTIVE MEANS FOR HOT-CATHODE RECTIFIERS
Rolland C. Griffith, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 20, 1936, Serial No. 96,973
3 Claims. (Cl. 175—363)

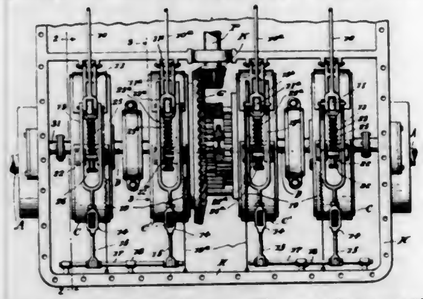


1. The combination with a rectifier system including an alternating-current supply circuit and a plurality of hot-cathode vapor-filled discharge devices, of a plurality of contactor devices each having a winding and contacts actuated thereby to connect the anodes of said discharge devices to said circuit, an overload device having a winding responsive to overload in said supply circuit and contacts adapted to be actuated by said last-named winding, a time-delay relay having a winding and contacts adapted to be actuated thereby, a plurality of thermo-relays each having a heater element connected in series with contacts of the corresponding one of said contact devices and each having contacts adapted to be actuated by heat from said heater element, a circuit connected to said supply circuit and including said time-delay relay contacts, said contactor device windings, and said thermo-relay contacts, and a circuit connected to said supply circuit and including said overload device contacts and said time-delay relay winding, whereby upon occurrence of overload in said system said contactor devices are opened and closed at regular intervals while said overload continues and whereby in response to current in the particular discharge device producing the overload the contactor in the circuit of said particular discharge device, is opened and held open after a predetermined duration of said overload.

2,158,935
CLUTCH STEERING MECHANISM FOR TRACTORS
Roy Gustafson, Fields Landing, Calif.
Application July 23, 1936, Serial No. 92,197
3 Claims. (Cl. 192—13)

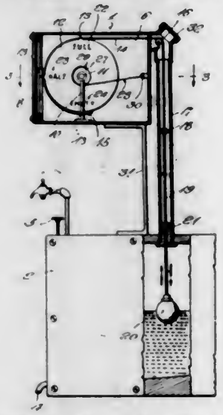
1. In combination with a vehicle, a driving shaft, a braking element carried by said driving shaft, a clutching element carried by said driving shaft, means for independently operating the braking element to effect a braking influence upon said driving shaft, means for releasing the clutching element, means for connecting the last

two mentioned means for releasing the clutching element and simultaneously and automatically operating the braking element, said means for releasing the clutching element comprising a lever and an operating rod pivoted to the lever and serving to move the lever in a direction to effect release of the clutching element when the operating rod is pulled in one direction; said means for operating the braking element comprising a lever and a brake control rod pivoted thereto and serving to move the lever in a direction to apply the brake when the rod is pulled in one direction, and means connecting the operating rod of the clutching element with the brake control rod of



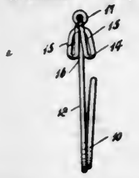
the braking element for simultaneously operating the braking element and releasing the clutching element and also permitting the operation of the braking element independently of the releasing of the clutching element, the last mentioned means consisting of a rocker shaft, arms extending from said rocker shaft, a yoke pivoted to the lever of the clutch operating means, a yoke pivotally and slidably connected to the lever of the brake operating means for permitting limited movement of the levers independently of each other, and rods connecting said yokes with arms of the rocker shaft for transmitting movement from one yoke to the other.

2,158,936
VOLUME INDICATOR
Raymond A. Hennings, New Orleans, La.
Original application November 5, 1935, Serial No. 48,400. Divided and this application January 21, 1938, Serial No. 186,205
1 Claim. (Cl. 73—321)



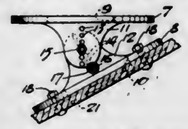
In combination with a beverage dispensing tank, a first casing mounted on the tank, a second casing comprising an indicator casing bracketed on the tank, a passage between said second casing and said first casing, a sight opening formed in one face of the indicator, a guide bearing arranged in the first casing, a rod movable within the first casing and guide bearing and having a float on one end adapted to bear on the liquid within the tank and move upwardly and downwardly according to the level of the liquid within the tank, a series of revoluble drums rigidly secured together mounted within the indicator casing one of which is provided with legends, a strap secured to and movable with one of the drums and passing through said passage secured at its free end to the rod of the float and a spring secured to one of the drums and to the indicator casing and means comprising a removable closure for obtaining access to the first casing at the top, substantially as and for the purpose specified.

2,158,937
CLOTHESPIN
Daniel W. Hilderbrant, Farmersville, Calif.
Application March 3, 1938, Serial No. 193,764
2 Claims. (Cl. 24—139)



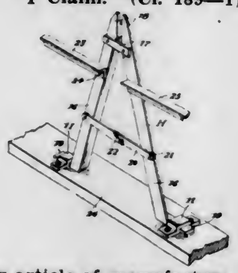
1. A clothespin of the class described comprising a resilient strand, said strand consisting of a coil, legs extending in the same general direction from the coil, one of the legs having a tine, said tine adjacent its free end having a loop providing a hook, the free end of the loop being terminally coiled about the tine, said loop being returned upon itself to provide substantially parallel strands forming a bifurcation and substantially parallel strands outwardly of the first mentioned strands, and said movable leg being normally engaged with the second mentioned coil and disposed in the bifurcation.

2,158,938
WATER CLOSET FOR BOATS
Edward Hoerichs, Baltimore, Md.
Original application March 26, 1937, Serial No. 133,236. Divided and this application February 17, 1938, Serial No. 191,071
9 Claims. (Cl. 4—252)



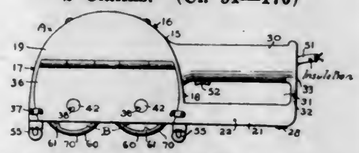
1. A water closet for boats comprising a bowl, and means for accommodating it to the pitch of the floor of a boat comprising a pair of members one for attachment to the lower end of the bowl and the other for attachment to the bottom of the boat hull, said members having openings therein, a discharge pipe extending from the bowl through said openings, means for pivotally connecting said members for adjustment into different angular relations, and means for holding said members in different angular relations.

2,158,939
SUPPORTING HORSE
Philip W. Hussey, North Berwick, Maine
Original application August 17, 1933, Serial No. 685,607. Divided and this application October 17, 1935, Serial No. 45,483
1 Claim. (Cl. 189—1)



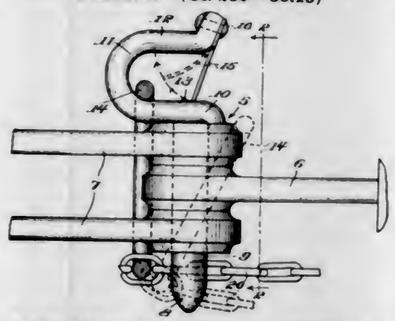
As a new article of manufacture, a supporting horse comprising legs formed of angle metal to provide each leg with a front flange and a side flange along its inner side edge, the upper end portions of the legs having their inner edges extending diagonally to provide jaws, lower portions of the side flanges being extended beyond the legs and bent transversely to provide flat feet extending laterally of the legs back of the front flanges and projecting from outer side edges thereof for engagement with anchoring means of a support, a plate extending transversely of said legs between the upper portions thereof with its ends overlapping the front flanges of the legs and pivotally secured thereto at lower ends of said jaws, and toggle links extending between the legs transversely thereof and pivotally secured to the front flanges thereof in spaced relation to lower ends of the legs.

2,158,940
ABRADING MACHINE
Vassaf Kadri, New York, N. Y., assignor, by direct and mesne assignments, of thirty per cent to Nouri Rejeb, New York, N. Y., and twenty-five per cent to Mary Bagdadi, Brooklyn, N. Y.
Original application September 15, 1936, Serial No. 100,930, now Patent No. 2,120,252, dated June 14, 1938. Divided and this application April 12, 1938, Serial No. 201,583
2 Claims. (Cl. 51—170)



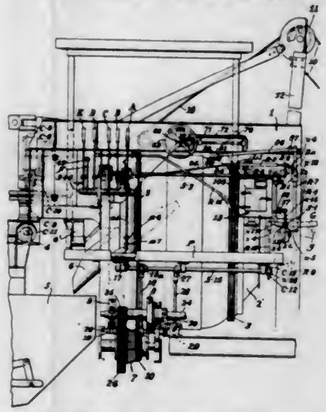
1. In an abrading machine, a housing provided with a chamber and with a hand grip extending rigidly outwardly from said housing; a portion of said housing being of a height less than the major portion of said housing, being horizontally offset from said major portion and being disposed below and spaced from said hand grip, said portion having a width substantially greater than the width of said hand grip and said portion being provided with a compartment having a mouth spaced from the upper portion of said chamber and opening into the lowermost portion of said chamber; means in said chamber carrying an abrasive and means for moving portions of said first-named means in a path toward and away from said mouth.

2,158,941
COUPLING PIN
Harve Landis, Walters, Okla.
Application July 22, 1938, Serial No. 220,752
3 Claims. (Cl. 280—33.15)



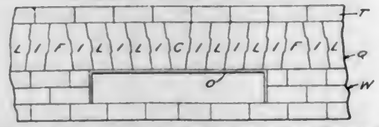
1. A pin adapted for securing coupling members together and fashioned with a head having a fold forming a section overlying the top face of said head, a link mounted within said fold and adapted for engagement with one of said coupling members to prevent removal of said pin from said members, and a latch member secured to said section and coacting with the top face of said pin to prevent dislodgement of said link from said fold.

2,158,942
AUTOMATIC CONTROL FOR CONCRETE PAVERS
Axel E. Lundbye, Nunda, N. Y., assignor to The Foote Company, Inc., Nunda, N. Y., a corporation of Delaware
Application November 6, 1936, Serial No. 109,585
21 Claims. (Cl. 259—163)



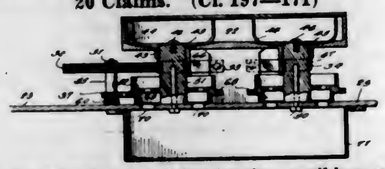
1. In an automatic control for concrete pavers, levers for manually affecting the skip, for turning on and off the water supply, and for opening and closing the power discharge chute, the last of said levers carrying a knock-out mechanism comprising a movable block mounted on a sliding pin, said pin indirectly connected to the power discharge chute and moved with the opening and closing of said chute, a sleeve operated by the lever for controlling the skip, said sleeve provided with a finger for contacting said block when in front of the said finger to thereby open the discharge chute, a shaft with a finger for contacting the said block for closing said discharge chute when the block is in front of said last-mentioned finger, and the said shaft operated by the elevation of said skip.

2,158,943
BLAST FURNACE CONSTRUCTION
Samuel L. Mamula, Cleveland, Ohio
Application September 14, 1937, Serial No. 163,871
2 Claims. (Cl. 72—55)



1. In a furnace arch structure a key brick having the configuration in end elevation of a truncated V, one inclined side of said brick having a longitudinally extending keyway therein provided with inwardly convergent side walls, the other side of said brick having an outwardly extending longitudinal key provided with outwardly convergent longitudinal faces, and filler bricks on opposite sides of said key brick, said filler bricks having a parallelogram configuration in end elevation, each of said filler bricks having a longitudinal keyway in one side thereof provided with inwardly convergent opposite walls, and a longitudinal key on the opposite side of each filler brick having outwardly convergent faces for engagement in a keyway of an adjacent brick, that portion of each face of a brick on one side of a key or keyway being disposed in the same plane as the remaining face of the brick on the opposite side of the key or keyway.

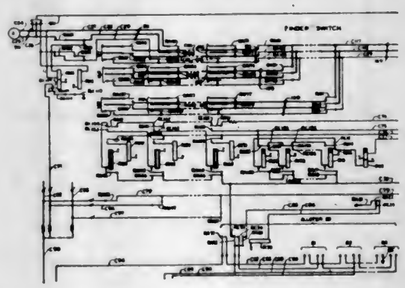
2,158,944
INK FOUNTAIN TYPING MACHINE
George E. Pelton, Middleburg, Va.
Application December 30, 1938, Serial No. 248,551
20 Claims. (Cl. 197—171)



1. In a typing machine having a ribbon and a mechanism to produce typed impressions on an impression receiving surface by means of said ribbon, means for inking said ribbon comprising a reservoir for ink, a housing in fluid communication with said reservoir, a roller within said housing, the housing closely fitting about said roller to spread a film of ink over said roller, a portion of said roller being exposed, an inking member receiving ink from said roller at said exposed portion and adapted to be contacted by said ribbon for transferring ink from said roller to said ribbon in minute quantities, means effecting driving connection between said roller and member, and means for thinning said ink without varying the constituents thereof during the rotation of said roller.

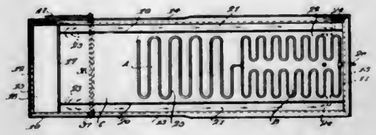
2,158,945
TELEPHONE SYSTEM
Edward S. Peterson, Elmwood Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 24, 1937, Serial No. 165,472
25 Claims. (Cl. 179—26)

1. In a telephone system, a control exchange, a second exchange remote from said control exchange, a plurality of lines extending to said second exchange, said lines being divided into groups, a trunk line interconnecting said exchanges, an operator's station at said control exchange, an operator's telephone and an impulsing device at said operator's station, and a finder-connector link for interconnecting said lines to establish conversational circuits thereover, said link comprising; means responsive to the initiation of a call on one of said plurality of lines for selecting the calling line and for establishing a connection between said calling line and said trunk line, a plurality of group select relays in-



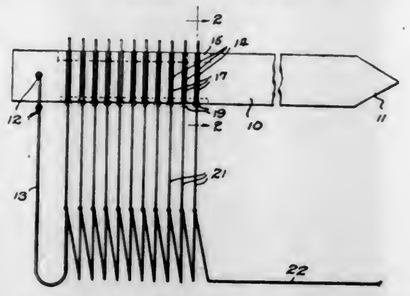
dividually corresponding to said groups of said lines and so connected and arranged as sequentially to operate in accordance with the impulses comprising a series of impulses transmitted from said impulsing device over said trunk line to select a group of lines including a called one of said plurality of lines, and a plurality of units relays individually corresponding to the lines of each of said groups and so connected and arranged as sequentially to operate in accordance with the impulses comprising another series of impulses transmitted from said impulsing device over said trunk line to select said called line from said selected group of lines.

2,158,946
EVAPORATOR
Anthony S. Pierrel, Washington, La.
Application September 7, 1937, Serial No. 162,745
3 Claims. (Cl. 159—34)



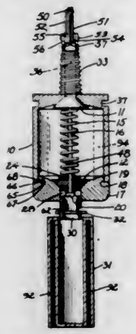
3. A device of the class described comprising a pan adapted to contain juice, an element for heating the juice, said pan having a heating zone occupied by the heating element and a skimming zone unoccupied thereby, the heated juice being adapted to flow from the heating zone to the skimming zone, and a longitudinal partition extending upwardly from the bottom of the pan adjacent each of its sides and parallel therewith, whereby to form channels extending from the skimming zone to the heating zone, each of said partitions extending above the contents of the pan and having passages through their lower portions and adjacent each end thereof, whereby to permit juice to flow into the channels from the skimming zone and out of the channels into the heating zone.

2,158,947
TROT LINE JIG
Oscar William Purdum, Atchison, Kans.
Application April 14, 1937, Serial No. 136,906
2 Claims. (Cl. 43—31)



1. A trot line jig comprising an elongated body provided with a point at one end, means for fastening a trot line at the other end of the body a plurality of grooves upon opposite sides of the body for the reception of the shanks of a series of fish hooks, and a longitudinally extending insert of sponge rubber in the body for the reception of the barbs of the hooks.

2,158,948
LIQUID DISPENSING APPARATUS
Harry Ernest Rubens, New York, N. Y.
Application March 12, 1934, Serial No. 715,234
Renewed October 21, 1938
7 Claims. (Cl. 221—112)



1. In a liquid dispenser; a measuring chamber; an inlet valve and an outlet valve in said chamber; a nozzle member adjacent to said outlet valve; and means in said nozzle member for independently opening each of said valves.

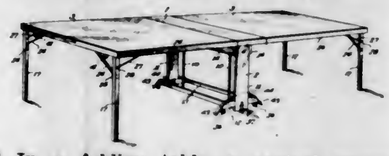
2,158,949
FOLDING STEP
Benjamin E. Sarles and Benjamin R. Sarles, Annapolis, Md.
Application September 7, 1937, Serial No. 162,753
1 Claim. (Cl. 228—47)

A device of the class described, comprising a base plate having its attaching face in a single plane and having a front face substantially parallel therewith, flanges at the ends of the front face, and a step pivoted to the base plate between the flanges and adapted to engage the base plate at times, the engaging faces of the step and base plate having marginal portions inclined in opposite directions to provide a finger hold between



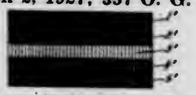
said portions when the step and base plate are in engagement.

2,158,950
FOLDING TABLE
Walter W. Swett, Takoma Park, Md.
Application June 6, 1938, Serial No. 212,169
5 Claims. (Cl. 311—89)



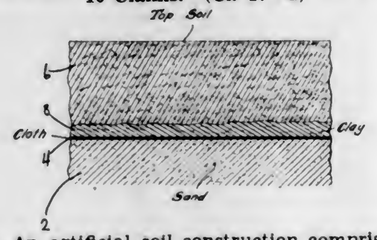
3. In a folding table, a central supporting frame, a central table top panel mounted on said supporting frame with vertical movement and supported directly on said frame in its lowered position, and a pair of relatively wide drop leaf panels hingedly attached at their inner ends to said central panel on opposite sides thereof, said drop leaf panels having provision at their outer ends for supporting them in horizontal opened position in alignment with said central panel in its lowered position, said drop leaf panels in vertical closed position resting with their outer ends on the base portion of said central supporting frame with the central table top panel supported thereby above said supporting frame.

2,158,951
PROCESS FOR SELECTING SINGLE COLORS OR COLOR TONES FROM PICTURES COMPRISING SEVERAL COLORS OR COLOR TONES, ESPECIALLY FOR REPRODUCTION PURPOSES
Ladislaus Szigeti, Ujpest, Hungary
Application March 2, 1936, Serial No. 66,758
In Hungary March 1, 1935
1 Claim. (Cl. 95—5.1)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



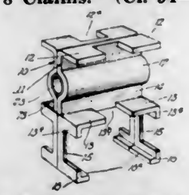
Process for manufacturing printing means for printing a color or color tone selected photographically from a picture containing several colors or color tones consisting in making from the said original picture an unfixed but developed reproduction on a light sensitive silver halide element by exposure controlled to produce a covering layer on the parts of the reproduction corresponding to the selected color or tone; exposing the said reproduction to diffused light of a value insufficient to cause alteration of the parts provided with the said covering layer but adequate to cause the other less lighted parts of the picture to be altered; developing the reproduction to obtain an image on which the said parts corresponding to the selected color or tone are more light than the other parts; fixing this picture image and making a hard positive from said image.

2,158,952
CONSERVATION AND PRESERVATION OF TOPSOIL
Journey F. Timberlake, Charlottesville, Va.
Application January 18, 1937, Serial No. 121,209
10 Claims. (Cl. 47—1)



1. An artificial soil construction comprising a layer of top soil, a layer of clay beneath the top soil, and a layer of waterproofed woven fabric disposed beneath the clay, said woven layer being supported by the earth.

2,158,953
LOAD TRANSFERRING AND ALIGNING DEVICE
Burr C. Wilcox, Dundee, Ill., assignor to Adolph J. Sabath, Chicago, Ill.
Application November 26, 1937, Serial No. 176,447
8 Claims. (Cl. 94—18)

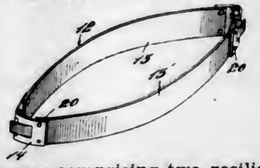


1. In a load transfer device, a pair of complementary members secured together and providing therebetween and intermediate the longitudinal edges of said members a recess for receiving and enclosing an end of a dowel, and legs at each end of said pair for initially supporting said members in a position between the upper and lower surfaces of a concrete slab during the pouring thereof and thereafter constituting means for distributing vertical thrusts from said members to areas of the slab beneath said members.

2,158,954
PURIFICATION OF SEWAGE OR WASTE LIQUORS
Paul Zigerli, Zurich, Switzerland
No Drawing. Application May 26, 1936, Serial No. 81,960. In Switzerland June 20, 1935
4 Claims. (Cl. 210—2)

1. Process of purifying sewer waters, characterized in this, that the water to be purified is caused to flow through asbestos in the form of a slurry maintained in motion and at the same time aerated, the asbestos absorbing the impurities and effecting by the active bacterial function a continuous self-cleaning condition biologically and bio-chemically, and effecting the destruction of those substances in the water which may decay.

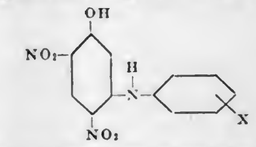
2,158,955
BAG FRAME
Benjamin Blacher, Providence, R. I., assignor to Blacher Brothers, Providence, R. I., a partnership composed of Harry Blacher, Benjamin Blacher, Samuel Blacher, and Louis Blacher
Application November 1, 1938, Serial No. 238,193
1 Claim. (Cl. 150—10)



A bag frame comprising two resilient flat ribbon-like members in face-to-face contact when in closed position, a hinge at each end of the frame, each connecting the adjacent ends of said members together, each hinge being provided with two parts with one part being notched, a pivot connecting said parts and means including a leaf spring which is integral with one of said ribbon members for extending through the notch of the notched part and acting on a portion of the other of said two parts extending therefrom and at an angle thereto to relatively urge the parts toward each other when in closed position and to relatively urge them in the opposite direction when in open position whereby to bow the ribbon members outwardly.

2,158,956
ARYLAMINO-DERIVATIVES OF 2,4-DINITROPHENOL
Edgar C. Britton, Frank B. Smith, John E. Livak, and Winfield W. Sunderland, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 20, 1937, Serial No. 132,084
9 Claims. (Cl. 260—571)

9. A compound having the following formula



wherein X represents an unreactive substituent selected from the class consisting of lower alkyl, phenyl-lower-alkyl, cycloalkyl, lower alkoxy, aryl radicals of the benzene series, aryloxy radicals of the benzene-oxy series, chlorine, and bromine.

2,158,957
HYDROXY-ALKYL ETHERS OF SUBSTITUTED PHENOLS
Gerald H. Coleman and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application February 20, 1937, Serial No. 126,810
5 Claims. (Cl. 260—613)

1. An hydroxy-alkyl ether of a tertiary-alkyl phenol compound in which the tertiary-alkyl group contains from 4 to 6 carbon atoms, inclusive, the benzene ring contains at least one addi-

tional substituent which is non-reactive with acids and alkalies in the etherification reaction, and the alkyl residue of the hydroxy-alkyl radical contains at least 2 carbon atoms.

2,158,958

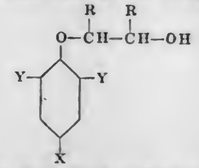
HYDROXY-ALKYL ETHERS OF 4-TERTIARY-ALKYL PHENOLS

Gerald H. Coleman and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application February 23, 1937, Serial No. 127,177

11 Claims. (Cl. 260—613)

1. A compound having the formula



wherein one R represents hydrogen, the other R represents a member of the group consisting of methyl and hydrogen, X represents a tertiary-alkyl group containing not more than 5 carbon atoms, one Y represents halogen, and the other Y represents a member of the group consisting of halogen and hydrogen.

2,158,959

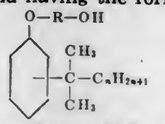
HYDROXY-ALKYL ETHERS OF TERTIARY-ALKYL PHENOLS

Gerald H. Coleman and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application January 12, 1938, Serial No. 184,561

13 Claims. (Cl. 260—613)

1. A compound having the formula



wherein R represents an alkylene group containing from 2 to 4 carbon atoms, inclusive, and n is an integer not greater than 2.

2,158,960

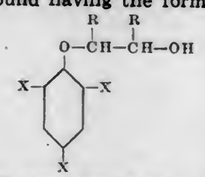
HYDROXY-ALKYL ETHERS

Gerald H. Coleman and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application January 12, 1938, Serial No. 184,562

8 Claims. (Cl. 260—613)

1. A compound having the formula



wherein one R represents hydrogen, the other R represents a member of the group consisting of the methyl radical and hydrogen, one X represents a tertiary-alkyl radical containing not more than 5 carbon atoms, another X represents a member of the group consisting of the alkyl and cycloalkyl radicals, and the third X represents a member of the group consisting of the alkyl and cycloalkyl radicals and hydrogen.

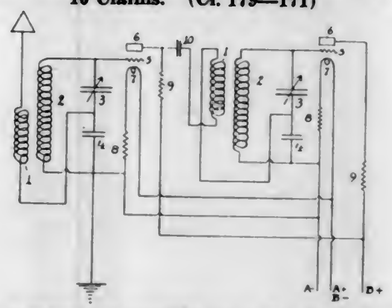
2,158,961

MEANS AND PROCESS FOR THE AMPLIFICATION OF RADIANT ENERGY

Joseph J. Daley, Boston, Mass., assignor, by mesne assignments, to Research Products Corporation, Boston, Mass., a corporation of Massachusetts

Application October 24, 1927, Serial No. 228,249

10 Claims. (Cl. 179—171)



4. A system of amplification of radiant energy comprising in combination an electronic device, having input means, and an output circuit consisting of a transformer, a variable capacity, a capacity connected in series between the primary and secondary of the transformer, said capacity being also in series with the variable capacity, and both capacities being connected in shunt across the secondary of the transformer, and furthermore a capacity connected in series between the plate of the electronic device and the primary.

2,158,962

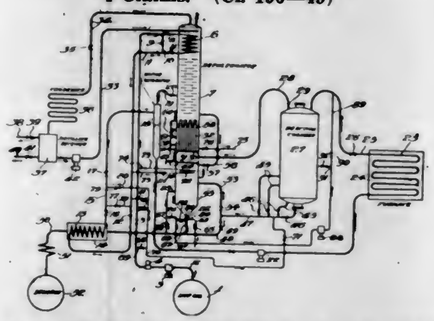
HYDROCARBON OIL CONVERSION

Carbon P. Dubbs, Wilmette, Ill., assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 7, 1927, Serial No. 173,269

Renewed May 7, 1937

4 Claims. (Cl. 196—49)



1. In the art of hydrocarbon oil conversion, steps which comprise subjecting hydrocarbon oil to cracking conditions of temperature and superatmospheric pressure, discharging the heated oil into an enlarged zone where substantial vaporization occurs, separating the vapors from the non-vaporous residue, in removing said separated vapors and subjecting same to cooling action, separately withdrawing the non-vaporous residue, substantially reducing the pressure maintained on said non-vaporous residue and passing same to a zone where vaporization is effected due to sensible heat, separating resultant vapors and separately withdrawing the remaining non-vaporous residue from the second mentioned zone and returning portions thereof to said heated oil prior to vaporization thereof.

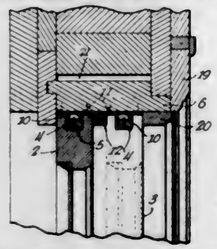
2,158,963

WEATHER STRIP AND SASH BALANCE

Martin J. Gossen, Whitefish Bay, Wis.

Application January 6, 1938, Serial No. 183,569

8 Claims. (Cl. 20—52)



1. In combination, a window frame, a sash slidably mounted within said frame, tubes secured within the frame at the sides of the sash and each tube having a bottom wall and laterally spaced side walls, the side walls of the tubes being free of the frame and extending into grooves in the adjacent side portions of the sash, said side walls having a spring tension connection with their bottom walls so that the side walls may press laterally against the sash within the grooves to frictionally hold the sash in any position of adjustment within the frame, flange formations along the side walls within the grooves, said flanges extending inwardly from the the side walls and terminating short of each other between the side walls to provide slots along the tubes within the grooves, and coiled lifting springs located within the tubes and fixed at one end as to the tubes and connected at their other ends to the sash through the slots in the tubes, said flanges extending over the springs and retaining the same within the tubes in all positions of adjustment of the sash within the frame.

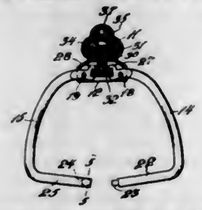
2,158,964

KEY HOLDER

Thomas Gosselin, Attleboro, Mass., assignor to Swank Products, Inc., a corporation of Delaware

Application April 1, 1938, Serial No. 199,392

11 Claims. (Cl. 70—456)



2. A key holder comprising a closed key retaining loop formed in two sections each of which is pivoted at one end and both being relatively movable to bring their free ends into separated or into connected relation to permit the ready positioning or removal of a key and retention of the same, and means acting on said sections for causing a relative movement of the same to opened or to closed position.

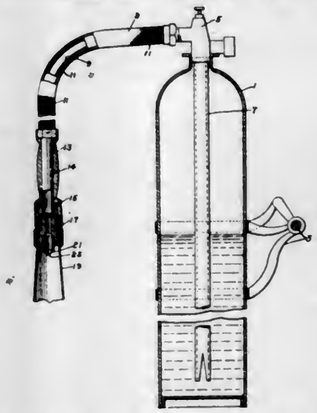
2,158,965

STATIC ELIMINATING MEANS FOR CARBON DIOXIDE APPARATUS

Henry Ernest Heigis, West Orange, N. J., assignor to Walter Kidde & Company, Inc., Bloomfield, N. J., a corporation of New York

Application October 5, 1936, Serial No. 104,003

11 Claims. (Cl. 175—264)



1. A carbon dioxide fire extinguisher comprising a container of carbon dioxide, a valve on the container adapted to release the carbon dioxide, a conduit connected to the valve outlet, a shield associated with conduit, and a handle on the conduit to control the direction of discharge from the shield, said handle being adapted to prevent thermal conductivity and permit electrostatic conductivity therethrough.

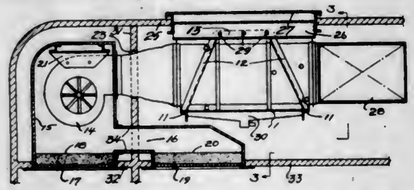
2,158,966

AIR CONDITIONING SYSTEM FOR PASSENGER VEHICLES

Harold Hemming, Dedham, and Charles E. Sweet, Mattapan, Mass., assignors to B. F. Sturtevant Company, Boston, Mass.

Application March 13, 1937, Serial No. 130,736

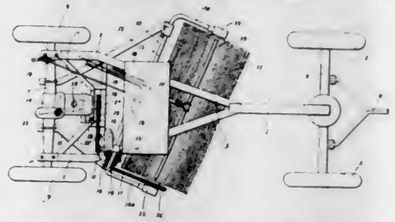
4 Claims. (Cl. 98—14)



1. Air conditioning apparatus for a railway passenger car comprising an air washer unit located in the roof zone of said car, a perforated structural base for supporting said unit, frame members extending upwardly from said base along converging lines to points above said unit, and means for attaching the upper ends of said frame members to said car adjacent the roof

thereof for swinging said unit from the car structure, said unit having a lower sump extension extending through the perforation in said base to a point below said base.

2,158,967
ROTARY ROAD BROOM
Edward F. Hilliard, Sacramento, Calif.
Application September 30, 1936, Serial No. 103,250
1 Claim. (Cl. 15—82)



A highway maintenance implement comprising an arch type main frame including a pair of transversely spaced, downwardly extending frame members at its rear end, means supporting the frame at its forward end, a pair of rear wheels each being disposed adjacent but outwardly of one of said frame members, an axle connecting the wheels, a housing surrounding the axle and including a box disposed centrally of its ends, a power take-off element on the axle in said box, means rigidly mounting the frame members at their lower ends on the axle housing, a horizontal sub-frame disposed beneath the main frame and extending forwardly from the axle housing, said sub-frame including a pair of arms spaced apart transversely a distance less than the frame members, means rigidly securing said arms at their rear ends on the housing inwardly of said frame members and equi-distant therefrom, means supporting the arms ahead of the housing from the main frame, a cylindrical rotary brush extending under and transversely of the main frame ahead of the sub-frame, means rotatably mounting the brush at its ends in connection with the sub-frame, and drive mechanism between said element and the brush and supported by the sub-frame and housing.

2,158,968
INCANDESCENT GAS SIGN AND METHOD OF MAKING SAME
Albert S. Moffat, Watertown, Mass., assignor of one-half to Harvey C. Wheeler, Boston, Mass.
Application June 1, 1938, Serial No. 211,150
2 Claims. (Cl. 176—14)



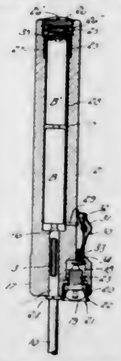
1. An illuminating display device of the kind described, comprising a panel of three layers, each of transparent plastic material, said layers being secured together with their respective contacting faces in gas-tight relationship, the intermediate layer containing openings entirely therethru constituting a gas-receiving chamber, and adapted to receive neon gas, gas filling means thru one of said plates to said gas-receiving chamber together with electrical current-conducting means thru one of said plastic layers to electrodes at opposite ends of said chamber to render said gas incandescent, the outer plastic plates being of contrasting color to that of the gas when incandescent in the intermediate plate openings.

2,158,969
COIL MOUNTING
Herbert F. Oliver, West Springfield, Mass., assignor to F. W. Sickles Company, Springfield, Mass., a corporation of Massachusetts
Application March 14, 1938, Serial No. 195,784
3 Claims. (Cl. 173—324)



2. The combination with a coil support provided with separate longitudinal grooves each having side walls disposed generally radially with adjacent walls of adjacent parallel grooves converging inwardly towards each other, of a terminal comprising, a strip of metal bent intermediate its ends to form a loop with side portions extending outwardly therefrom which terminate in lugs angularly disposed so as to engage said walls, said side portions being yieldingly separable whereby said lugs may be snapped into engagement with said walls.

2,158,970
ILLUMINATED HAND TOOL
Austin L. Stowell, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application February 12, 1937, Serial No. 125,360
4 Claims. (Cl. 240—6.46)



1. A hand tool comprising a one piece handle having a longitudinal bore extending partially throughout its length, a metallic shank rigidly secured in the forward end of the handle and projecting forwardly therefrom, one end of the shank projecting into said bore to engage a battery contact, a battery removably mounted in the bore, the shank receiving end of the handle terminating in an enlarged portion eccentrically disposed to the shank, an electric lamp removably secured within said enlarged portion disposed to one side of the shank and arranged to direct a beam of light towards the point of tool

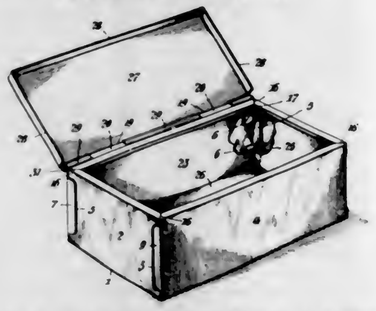
application, and means including a switch for electrically connecting the battery, lamp and shank.

2,158,971
CIGARETTE PACKAGE
Glen S. Stratton, Chicago, Ill., assignor of one-half to Arthur O. Hurja, Oak Park, Ill., and one-fourth to Hazel L. Stratton, Omaha, Nebr.
Application January 19, 1938, Serial No. 185,765
4 Claims. (Cl. 206 .1)



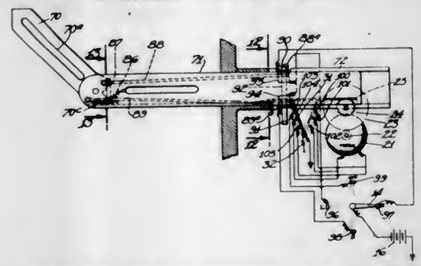
2. A cigarette package for cigarettes or the like comprised of an elongated, substantially rectangular backing strip of relatively stiff, moisture resistant paper, groups of cigarettes disposed on said backing strip with the cigarettes of the groups running transversely of the backing strip, a covering strip of relatively thin, tough, flexible, moisture resistant, transparent material extending over the front of the backing strip and enclosing the groups of cigarettes thereon, said covering strip being secured to the edges of said backing strip and the portions of the backing strip intermediate the groups of cigarettes, thereby enclosing each of said groups on all four sides, the portions of said package intermediate the groups being adapted for severance whereby a group of cigarettes may be separated from the remainder of the package, leaving the remainder of the package intact, the distance between the groups being sufficient to permit the folding of the package with one group superimposed on another whereby the cigarettes, when the package is folded, are protected against crushing by the respective portions of the backing strip immediately therebehind and by the portion which lies intermediate the groups when the package is unfolded.

2,158,972
BOX CONSTRUCTION
Fred Weindel, Jr., Allentown, Pa., assignor to L. F. Grammes & Sons, Inc., Allentown, Pa., a corporation of Maryland
Application February 2, 1937, Serial No. 123,609
4 Claims. (Cl. 220—63)



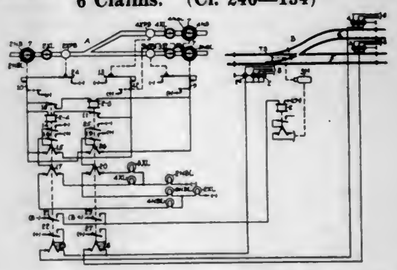
1. In a container or box having a hinged lid, the combination of an outer casing blanked from sheet material to define a bottom, opposing walls having their outer edges scored and bent to form retainer grooves, side wings on opposing walls engageable with complemental depressions in the adjoining wal's; laterally projecting tabs from the depressed portions for abutment against the first mentioned walls; spaced elongate slots in one of the casing walls for reception of hinge elements and partly held in place by the retainer groove of said wall; a liner member engageable, along its upper edge, in each wall retainer groove and with the flanking liner members, when the outer casing is set up; a bottom liner member frictionally-fitting between the inner lower edges of the wall liner members, to hold the latter in place; and wherein the projecting tabs lap the outer surface of opposing liner members, to grip the latter to the adjoining liner members in said assemb'y, as well as to interlock the liner members with the casing.

2,158,973
AUTOMOBILE TRAFFIC SIGNAL
Everett Lorne Whenham, Los Angeles, Calif.
Application August 16, 1935, Serial No. 36,493
4 Claims. (Cl. 177—327)



1. A traffic signal in combination with a vehicle body having an opening in its side, comprising a horizontal slide, mounted to move horizontally from the vehicle through the opening, a support on the vehicle body for the slide, a signal arm pivotally mounted at the end of the slide projectable through the opening, means for moving the slide from and into the opening, manual means for actuating the moving means, a pair of dogs in association with and controlled by the manual actuating means, and means in association with the arm for engaging the dogs and positively swinging the arm about its pivotal axis when the slide is moved either out or in.

2,158,974
INTERLOCKING SYSTEM FOR RAILROADS
Frank Benedict, Rutherford, N. J., assignor to General Railway Signal Company, Rochester, N. Y.
Application July 30, 1936, Serial No. 93,432
6 Claims. (Cl. 246—134)



1. In an interlocking system of the entrance-exit type, the combination with a track layout in the field including a plurality of conflicting routes and a corresponding miniature track lay-

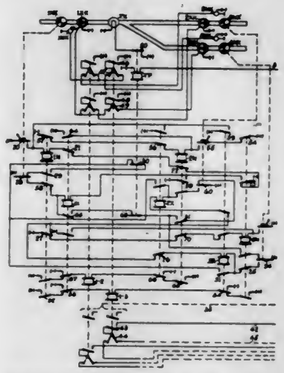
out on a panel in the control office, manually operable means at each end of each route on said miniature track layout, an indicating lamp associated with each of said manually operable means, a route relay for each route, means effective upon operation of manually operable means at the entrance end and at the exit end of a particular route from normal for energizing a route relay identifying that route, means controlled by said route relay for setting up a corresponding route on the actual track layout, and a contact on said route relay for energizing the indicating lamps at the entrance and exit ends of the route corresponding to said route relay.

2,158,975

INTERLOCKING SYSTEM FOR RAILROADS

Frank Benedict, Rutherford, N. J., assignor to General Railway Signal Company, Rochester, N. Y.

Application July 10, 1937, Serial No. 152,976
10 Claims. (Cl. 246—134)



1. In a control system for a railway track layout having a plurality of routes each including at least one track switch and having signals for governing traffic over such routes, a control panel, self-restoring control buttons for the ends of said routes, an entrance relay and an exit relay associated with each control button, circuit means for energizing an entrance relay upon the actuation of its associated control button only provided there is no entrance relay picked up for the opposite ends of the routes emanating from such point, circuit means for energizing each exit relay upon the actuation of its control button only provided an entrance relay is energized for the opposite end of a route with which it is associated, and route establishing means for setting up each route and clearing a signal for allowing the passage of traffic thereover in response to the energization of an entrance relay for one end of that route and an exit relay for the opposite end of that route.

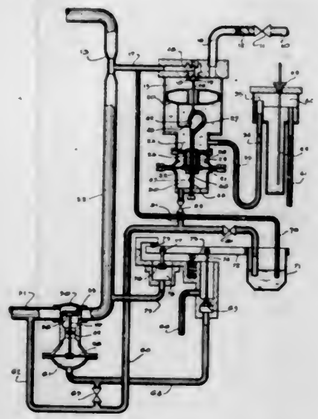
2,158,976

GAS SUPPLY APPARATUS

George M. Booth, Westfield, N. J., assignor to Wallace & Tiernan Company, Inc., Belleville, N. J., a corporation of New York

Application August 15, 1936, Serial No. 96,242
13 Claims. (Cl. 210—28)

1. The combination with flow-controlling means and means for supplying gas at a controlled pressure to the flow-controlling means and a suction device for drawing the gas through the flow-controlling means, of means providing a restriction in the flow passage between the flow-controlling means and the suction device adjustable for determining the negative pressure transmitted to the flow-controlling means, and



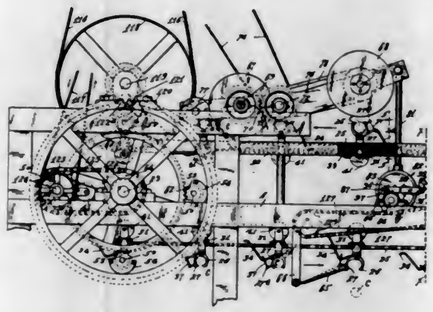
automatically acting means for controlling the operation of the suction device to vary its pulling capacity to maintain for different adjustments of said restriction a desired negative pressure between the suction device and said restriction.

2,158,977

MACHINE FOR PREPARING CORN FOR CANNING ON THE COB

Frank W. Douthitt, Ortonville, Minn., assignor to Edwin C. Kraus, Le Center, Minn.

Application November 30, 1936, Serial No. 113,397
12 Claims. (Cl. 146—84)



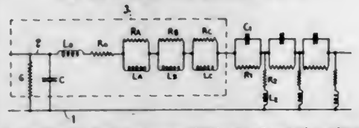
1. In a machine of the kind described, a conveyor equipped with corn ear carriers, trimming means in the path of movement of one of the ends of the corn ears in the carriers for cutting off said ends as they are successively fed thereto by the conveyor, and a second trimming means mounted for body movement and normally out of the path of movement of the other ends of the corn ears, and means operable, at will, to position the second trimming means in the path of movement of a selected corn ear to cut off the respective end thereof and thereafter return said second trimming means out of said path of movement.

2,158,978

ELECTRIC SIGNAL TRANSMISSION SYSTEM

Michael Bowman-Manifold, Worplesdon Station, Surrey, and John Collard, Hammersmith, London, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

Application February 26, 1937, Serial No. 127,924
In Great Britain March 3, 1936
19 Claims. (Cl. 178—44)



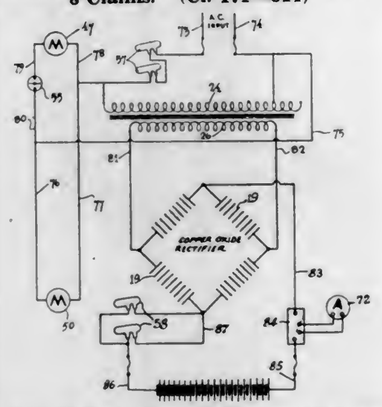
1. A system for transmitting electric signals of frequencies within a range covering at least about 100 kilocycles, comprising a transmission line of the type as exemplified by a cable, having its primary constants varying with frequency within said range, thereby causing variations of attenuation and phase delay resulting in distortion of said signals, and a plurality of equaliser sections all connected in series with said line, said sections comprising a series element and a shunt element, said series element composed of resistance shunted by capacity, said shunt element composed of inductance in series with resistance, said elements being substantially different for different sections as to time constant and magnitude of the components and being so chosen as to substantially and simultaneously compensate for the greater part of said variations.

2,158,979

INDUSTRIAL TRUCK AND TRACTOR BATTERY CHARGER

Edgar W. Breisch, Lancaster, N. Y., assignor to National Battery Company, St. Paul, Minn., a corporaton of Delaware

Application April 13, 1936, Serial No. 74,033
8 Claims. (Cl. 171—314)



1. An industrial truck and tractor battery charger comprising, a transformer having relatively movable primary and secondary windings, a junction rectifier, a circuit for supplying alternating current to said primary winding, a control switch included in said circuit, a second circuit including the secondary winding of said transformer and said rectifier, a multiplicity of batteries, a direct current output circuit from said rectifier including said batteries, means for slowly moving one of said windings relative to the other during an extended period of time and means for the actuating said switch at the end of said period.

2,158,980

METHOD OF LOCATING METALS AND MINERALS IN THE GROUND

Nils Brundin, Romford, England

No Drawing. Application August 23, 1937, Serial No. 160,554. In Sweden September 7, 1936
1 Claim. (Cl. 23—230)

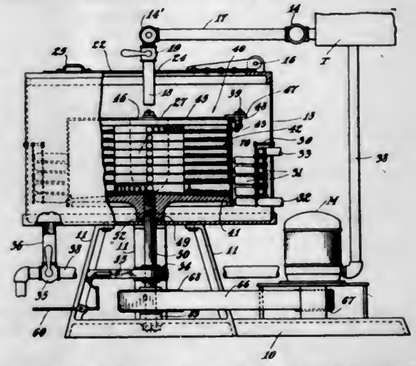
A method of detecting the presence and location of metals and ores in the ground, which comprises the steps of taking samples of vegetable material of the same species at substantially regular intervals along lines distributed over the area to be investigated, ashing the samples, subjecting the ash to spectrographic analysis, and plotting the results obtained in the form of a graph or map of the area investigated so as to exhibit areas of greatest concentration of the metal.

2,158,981

ELECTROLYTIC DEVICE

Joseph L. Collins and Robert Teeple, North Adams, Mass., assignors to Sprague Specialties Company, North Adams, Mass., a corporation of Massachusetts

Application August 5, 1936, Serial No. 94,462
5 Claims. (Cl. 91—68)



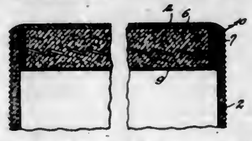
1. In the manufacture of dry electrolytic devices, the process which comprises, assembling electrodes and spacers into a section, closing one end face of the section, placing said section in a centrifuge with its length axis substantially in a direction perpendicular to the vertical axis of the centrifuge, and impregnating said section with a viscous electrolyte while rotating said centrifuge.

2,158,982

BUILDING BLOCK

George D. King and George L. Phelps, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

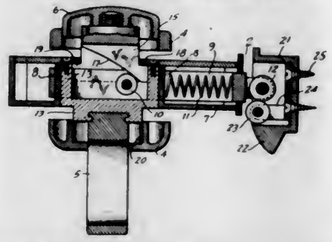
Application January 20, 1938, Serial No. 185,825
19 Claims. (Cl. 72—41)



1. A hollow building block comprising a shell of molded material and having open sides, a light

transmitting facing covering each open side, a layer of plastic adhesive between said facings and said shell walls, and an opaque coating secured to the inner marginal surface of said facings for preventing light transmission to said plastic adhesive.

2,158,983
LOCK
Harry E. Knoll, Dayton, Ohio, assignor to The Dayton Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application December 27, 1937, Serial No. 181,796
17 Claims. (Cl. 292—174)



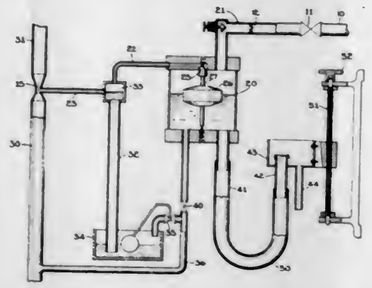
1. In a lock assembly wherein a reciprocatory latch bolt is mounted in a supporting frame for engaging relation with a keeper under influence of an actuating spring, the combination of actuating means for the bolt characterized by a pair of push-pull reciprocatory elements transversely disposed relative to the latch bolt, one of which is operable independently of the other, and an inter-coupling means therebetween whereby movement of said other member will actuate the first mentioned member in unison therewith, and interengaging cam surfaces on said first mentioned member and the latch bolt for retracting the latter against the tension of its spring by operation of either of said members.

2,158,984
WELDING ROD
Arthur R. Lytle and Thomas H. Vaughn, Niagara Falls, N. Y., assignors to Oxweld Acetylene Company, a corporation of West Virginia
No Drawing. Application May 13, 1938, Serial No. 207,777
8 Claims. (Cl. 219—8)

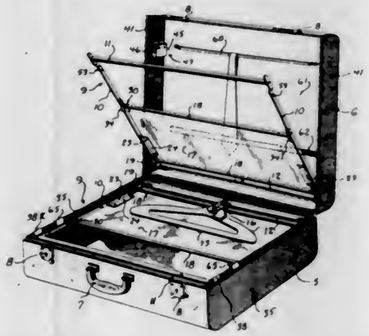
1. Welding rod comprising a metal core and an adherent coating thereon, such coating comprising a solid weld modifying substance and a thermoplastic resin selected from the group consisting of polyvinyl halides, polyvinyl esters of aliphatic acids, polystyrene, and polymerized esters of acrylic acid and its homologues; which resin burns slowly in a welding flame without yielding disagreeable fumes or odors and without depositing a char that would interfere with the welding operation.

2,158,985
GAS SUPPLY APPARATUS
Gerald D. Peet, Montclair, N. J., assignor to Wallace & Tiernan Company, Inc., Belleville, N. J., a corporation of New York
Application August 15, 1936, Serial No. 96,243
11 Claims. (Cl. 210—28)

1. The combination with flow-controlling means and means for supplying gas at a constant substantially atmospheric pressure to the flow-controlling means and a suction device for producing a negative pressure for drawing the gas through the flow-controlling means, of means providing an adjustable restriction in the flow passage between the flow-controlling means and the suction device, means responsive to variations in the negative pressure between the flow-controlling means and said restriction for adjusting said restriction to maintain said negative pressure constant, and means for controlling the negative pressure at the discharge side of said restriction to prevent excessive variation thereof.



2,158,986
HAND LUGGAGE
Joseph Peshek and George Henry Wheary, Racine, Wis., assignors to Wheary Trunk Company, Racine, Wis., a corporation of Wisconsin
Application March 15, 1937, Serial No. 130,992
3 Claims. (Cl. 312—185)

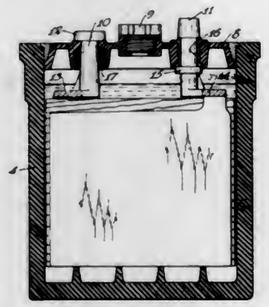


3. In a garment supporting fixture for hand luggage: a hinged frame having spaced side arms; socket members carried by the arms, said socket members being open toward the free end of the frame; hooks mounted on the side arms outwardly of the socket members; a substantially rectangular retaining board; spring plungers mounted at two opposite corners of the retaining board for engagement with said socket members; and metal sheaths fitted over the other two corners of the board with parts thereof projecting from the side edges of the board to provide means for engaging said hooks, and said metal sheaths having inclined portions overlying the side edges of the board and engageable with the side arms to guide the board into proper engagement with the hooks.

2,158,987
CLAY PRODUCT AND PROCESS OF PREPARING SAME
William T. Maloney, Natural Bridge, N. Y., assignor to Georgia Kaolin Company, a corporation of Georgia
No Drawing. Application November 26, 1934, Serial No. 754,841
12 Claims. (Cl. 91—68)

1. The process of treating Georgia clay to provide a finely divided material adapted for use in coating paper which comprises mixing the clay with water to form a diluted aqueous suspension, introducing a dispersing medium to said suspension to increase the dispersion of the clay, subjecting said suspension to a controlled centrifuging to effect a separation of the clay into a finer suspended fraction containing colloidal and non-colloidal smaller particles of such size and in such proportions as to impart desirable surface characteristics of gloss and color when applied to paper and into a fraction containing larger particles, adding a flocculating agent to the suspended fraction, and filtering the flocculated fraction to provide a finely divided mineral material adapted for use in place of satin white.

2,158,988
STORAGE BATTERY
Carl G. Reetz, St. Paul, Minn., assignor to National Battery Company, St. Paul, Minn., a corporation of Delaware
Application February 25, 1937, Serial No. 127,691
3 Claims. (Cl. 136—168)



1. In a storage battery cell having posts of opposite polarity each rigidly joined to a group of plates, one of said posts being a terminal binding post, the combination of a cover perforated to receive both of said posts, means sealing and rigidly connecting said terminal binding post to said cover and means resiliently sealing the other of said posts in said cover, said last mentioned means permitting relative movement between said post and cover.

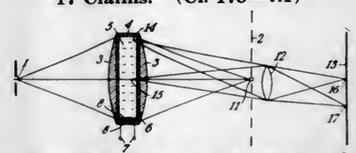
2,158,989
CLINCH-ON NUT
Frederick N. Ross, Grosse Pointe Park, Mich., assignor to Ash Products Corporation, Detroit, Mich., a corporation of Michigan
Continuation of application Serial No. 48,610, November 7, 1935. This application May 1, 1937, Serial No. 140,217
4 Claims. (Cl. 85—32)

1. As a new product, a standard rectangular nut having one face fabricated to form an arcuate clinch over wall, a portion of said wall being cut away to form a C-shape clinch over portion, a shoulder portion of the nut body adjacent



the base of the clinch over wall being tapered to center the bolt relative to the thread.

2,158,990
TELEVISION SYSTEM
Franz von Okolicsanyi, Kensington, London, England
Application February 4, 1937, Serial No. 123,961
In Great Britain February 5, 1936
17 Claims. (Cl. 178—7.1)



1. In a television system, apparatus for producing the high speed scanning component comprising a liquid adapted to be illuminated by a beam of light directed thereupon, wave generating means in contact with said liquid for producing therein trains of compressional waves of supersonic frequency travelling in a direction crossing that of a beam of light if directed upon said liquid, thereby resolving such a beam in a portion maintaining its original direction and a portion deviated from said direction, a shield member for selecting one of said portions, optical means for utilizing said selected portion to form an image of said waves on an elemental area of a surface to be scanned, an electrical arrangement for deriving synchronizing impulses of desired line scanning frequency, and means for utilizing said impulses to control the relation between the duration of illumination of said liquid and the active length of said trains of waves so that said image is periodically and momentarily produced at said line scanning frequency.

2,158,991
MECHANICAL PENCIL
Albert H. Stenersen, Chicago, Ill., assignor to The Wahl Company, Chicago, Ill., a corporation of Delaware
Application June 18, 1936, Serial No. 85,894
19 Claims. (Cl. 120—17)



6. In a mechanical pencil, in combination, a

longitudinally reciprocable lead-feeding clutch having an outwardly spring-pressed lead-gripping jaw, a lead guiding member for conducting a lead stick to the clutch, a clutch constricting member encompassing the clutch and reciprocable therewith, stops limiting the movement of the constricting member to only a portion of the stroke of the clutch in each direction, said constricting member adapted to wedge the jaw to lead-gripping position during rearward movement of the clutch relative to the constricting member, and said clutch including a catch portion for engagement with the constricting member to hold it out of wedging cooperation with the jaw during the simultaneous rearward movement of the clutch and constricting member.

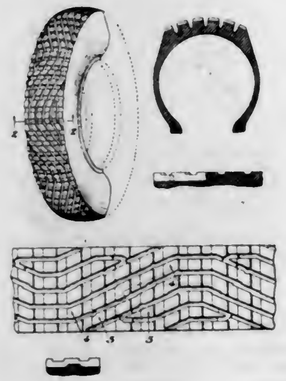
2,158,992
METHOD AND SOLUTION FOR PICKLING AND CLEANING METAL
Nelson E. Cook, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
No Drawing. Application June 23, 1936, Serial No. 86,804
8 Claims. (Cl. 148—8)

8. A pickling bath for ferrous metal sheets, which bath comprises an aqueous solution of sulphuric acid and a nitrate, and containing in addition an oxy-salt capable of reaction in the bath to produce an oxidizing compound other than and in addition to nitric acid which results from the reaction of the nitrate and the sulphuric acid.

DESIGNS

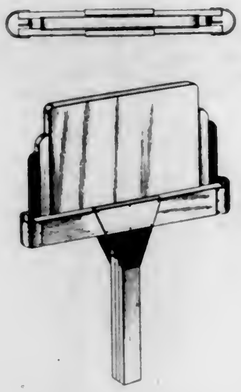
MAY 16, 1939

114,741
DESIGN FOR A TIRE
George W. Anderson, Akron, Ohio
Application February 23, 1939, Serial No. 83,165
Term of patent 14 years



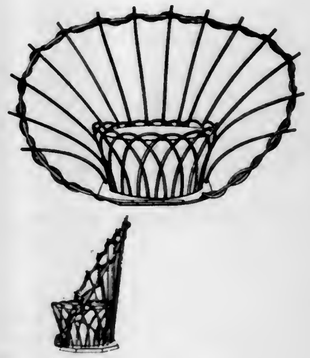
The ornamental design for a tire, substantially as shown.

114,742
DESIGN FOR A SIGN
Scott S. Bair, Westminster, Md.
Application April 19, 1938, Serial No. 76,611
Term of patent 14 years



The ornamental design for a sign, as shown.

114,743
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,027
Term of patent 3½ years



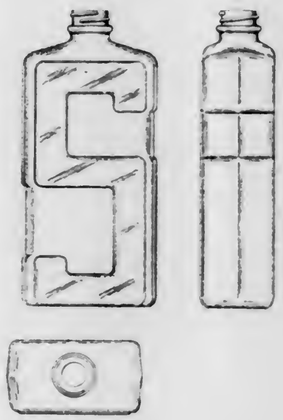
The ornamental design for a flower basket, as shown.

114,744
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,030
Term of patent 3½ years



The ornamental design for a flower basket, as shown.

114,745
DESIGN FOR A BOTTLE
Royden A. Blunt, Baltimore, Md.
Application March 12, 1938, Serial No. 75,775
Term of patent 14 years



The ornamental design for a bottle, as shown and described.

114,746
DESIGN FOR A BOTTLE
Royden A. Blunt, Baltimore, Md.
Application March 29, 1938, Serial No. 76,154
Term of patent 14 years



The ornamental design for a bottle, as shown and described.

114,747
DESIGN FOR A FIGURINE
Dorr Bothwell, Los Angeles, Calif., assignor to Gladding, McBean & Co., Los Angeles, Calif., a corporation of California
Application March 6, 1939, Serial No. 83,373
Term of patent 7 years



The ornamental design for a figurine, substantially as shown.

114,748
DESIGN FOR A VASE OR SIMILAR ARTICLE
Dorr Bothwell, Los Angeles, Calif., assignor to Gladding, McBean & Co., Los Angeles, Calif., a corporation of California
Application March 6, 1939, Serial No. 83,374
Term of patent 7 years



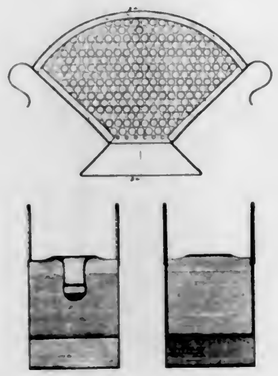
The ornamental design for a vase or similar article, substantially as shown.

114,749
DESIGN FOR A GAME DEVICE
John Brophy, Caracas, Venezuela
Application July 27, 1938, Serial No. 78,786
Term of patent 14 years



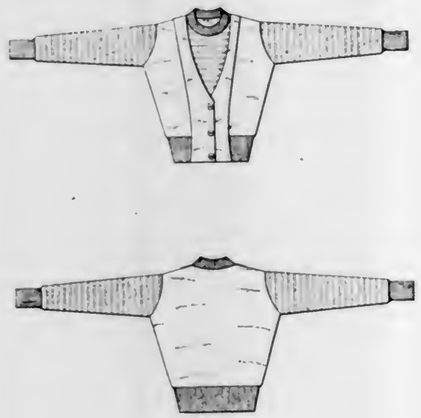
The ornamental design for a game device, as shown.

114,750
DESIGN FOR A HOLDER FOR PAPER NAPKINS OR THE LIKE
Robert F. Carpenter, Cleveland, Ohio
Application March 21, 1938, Serial No. 75,990
Term of patent 7 years



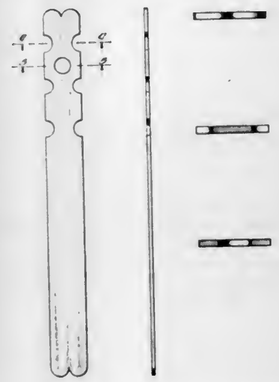
The ornamental design for a holder for paper napkins or the like, as shown.

114,751
DESIGN FOR A SWEATER
Henry Cohen, New York, N. Y.
Application September 19, 1938, Serial No. 79,986
Term of patent 3½ years



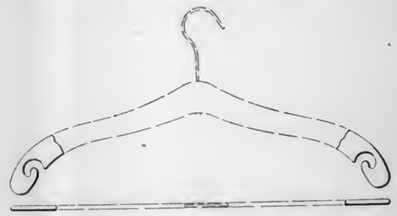
The ornamental design for a sweater, substantially as shown.

114,752
DESIGN FOR A STICK FOR FROZEN CONFECTIONERY
Anthony De Laurentis, Chicago, Ill.
Application February 20, 1939, Serial No. 83,109
Term of patent 14 years



The ornamental design for a stick for frozen confectionery, as shown.

114,753
DESIGN FOR A GARMENT HANGER
James F. Fewster, Morrisville, Pa.
Continuation of application Serial No. 75,248, February 18, 1938, This application April 15, 1938, Serial No. 76,542
Term of patent 7 years



The ornamental design for a garment hanger, substantially as shown and described

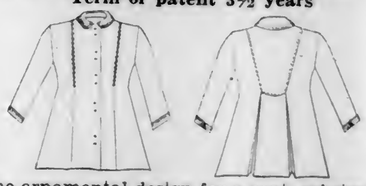
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114,754
DESIGN FOR A COAT
Benjamin Fischer, New York, N. Y.
Application March 18, 1939, Serial No. 83,664
Term of patent 3½ years



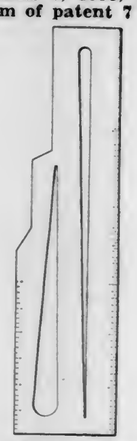
The ornamental design for a coat, substantially as shown.

114,755
DESIGN FOR A COAT
Benjamin Fischer, New York, N. Y.
Application March 18, 1939, Serial No. 83,665
Term of patent 3½ years



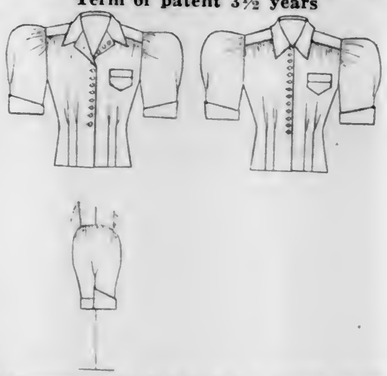
The ornamental design for a coat, substantially as shown.

114,756
DESIGN FOR A COMBINATION RULER OR SIMILAR ARTICLE
Frank W. Fuller, St. Paul, Minn.
Application March 7, 1938, Serial No. 75,640
Term of patent 7 years



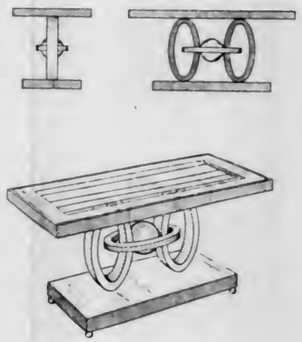
The ornamental design for a combination ruler or similar article, as shown.

114,757
DESIGN FOR A BLOUSE
Bernard Geist, New York, N. Y.
Application December 9, 1938, Serial No. 81,677
Term of patent 3½ years



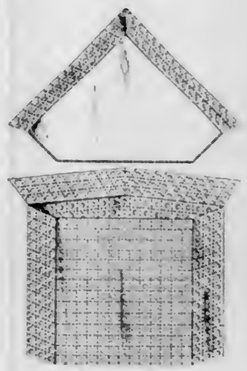
The ornamental design for a blouse, substantially as shown and described.

114,758
DESIGN FOR A TABLE
Abraham Hartman, New York, N. Y., assignor to H. & K. Furniture Co., Inc., New York, N. Y., a corporation of New York
Application January 17, 1939, Serial No. 82,398
Term of patent 3½ years



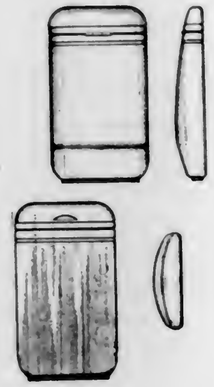
The ornamental design for a table, as shown.

114,759
DESIGN FOR A WASTEBASKET
Ota O. Hobson, Chariton, Iowa
Application July 18, 1938, Serial No. 78,573
Term of patent 3½ years



The ornamental design for a wastebasket substantially as shown.

114,760
DESIGN FOR A TOBACCO CAN
Edwin K. Johnson, Munday, Tex.
Application March 6, 1939, Serial No. 83,382
Term of patent 7 years



The ornamental design for a tobacco can, as shown.

114,761
DESIGN FOR A FINGER RING OR SIMILAR ARTICLE
Solomon Kaufman, New York, N. Y., assignor to Ostby and Barton Company, a corporation of Rhode Island
Application March 28, 1939, Serial No. 83,877
Term of patent 3½ years



The ornamental design for a finger ring or similar article, substantially as shown.

114,762
DESIGN FOR A COAT
Abraham Levine, New York, N. Y.
Application April 12, 1939, Serial No. 84,230
Term of patent 3½ years



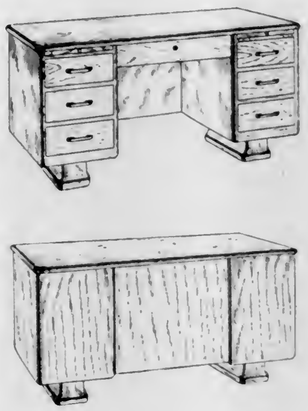
The ornamental design for a coat, substantially as shown, and described.

114,763
DESIGN FOR A BOTTLE
Albert C. Meyer, Glenshaw, Pa., assignor to Glenshaw Glass Company, Glenshaw, Pa., a corporation of Pennsylvania
Application December 2, 1938, Serial No. 81,526
Term of patent 14 years



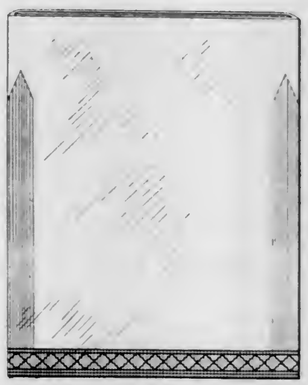
The ornamental design for a bottle, as shown and described.

114,764
DESIGN FOR A DESK
George De Motte Norman, Jasper, Ind., assignor to Hoosier Desk Company, Jasper, Ind., a corporation of Indiana
Application August 3, 1938, Serial No. 79,073
Term of patent 7 years



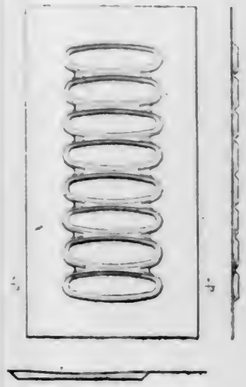
The ornamental design for a desk, as shown and described.

114,765
DESIGN FOR A DISPLAY BAG
Anthony Palmigiano, Jr., Brooklyn, N. Y.
Application August 1, 1938, Serial No. 79,015
Term of patent 3½ years



The ornamental design for a display bag, as shown and described.

114,766
DESIGN FOR A BAKING PAN
Ray C. Pater, Cincinnati, Ohio, assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application February 8, 1939, Serial No. 82,865
Term of patent 14 years



The ornamental design for a baking pan, as shown.

114,767
DESIGN FOR A COMBINATION DESK AND PLAY BOARD
Frank B. Robb, Chagrin Falls, Ohio
Application March 11, 1939, Serial No. 83,507
Term of patent 7 years



The ornamental design for a combination desk and play board, substantially as shown.

114,768
DESIGN FOR A CHAIR OR SIMILAR ARTICLE
Jackson D. Rogers, Bay Village, Ohio
Application March 17, 1937, Serial No. 68,205
Term of patent 7 years



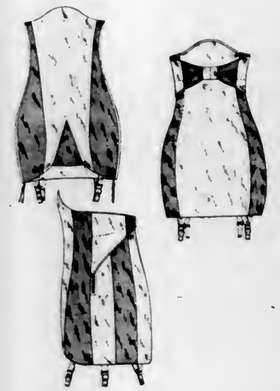
The ornamental design for a chair or similar article, as shown and described.

114,769
DESIGN FOR A SMOKING STAND
Edward Schultz, Chicago, Ill., assignor to The Nagel-Chase Mfg. Co., Chicago, Ill., a corporation of Illinois
Application May 23, 1938, Serial No. 77,352
Term of patent 7 years



The ornamental design for a smoking stand, as shown and described.

114,770
DESIGN FOR A GIRDLE
Eugene Siegel, Detroit, Mich., assignor to American Lady Corset Co. Inc., Detroit, Mich., a corporation of Michigan
Application January 13, 1939, Serial No. 82,330
Term of patent 14 years



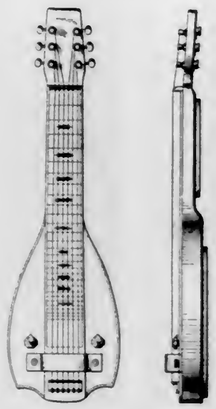
The ornamental design for a girdle, as shown.

114,771
DESIGN FOR A COAT
Nathan Stein, New York, N. Y.
Application February 9, 1939, Serial No. 82,884
Term of patent 3½ years



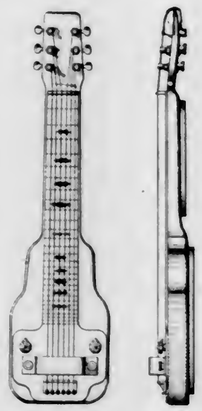
The ornamental design for a coat, substantially as shown.

114,772
DESIGN FOR AN ELECTRIC HAWAIIAN GUITAR OR SIMILAR ARTICLE
Herbert S. Sunshine, New York, N. Y., assignor to Epiphone, Inc., New York, N. Y., a corporation of New York
Application February 2, 1939, Serial No. 82,719
Term of patent 7 years



The ornamental design for an electric Hawaiian guitar or similar article, substantially as shown.

114,773
DESIGN FOR AN ELECTRIC HAWAIIAN GUITAR OR SIMILAR ARTICLE
Herbert S. Sunshine, New York, N. Y., assignor to Epiphone, Inc., New York, N. Y., a corporation of New York
Application February 2, 1939, Serial No. 82,720
Term of patent 7 years



The ornamental design for an electric Hawaiian guitar or similar article, substantially as shown.

114,774
DESIGN FOR A CABINET FOR GREASING EQUIPMENT OR THE LIKE
Harold Van Doren and Walker Johnson, Toledo, Ohio, assignors to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application March 20, 1939, Serial No. 83,713
Term of patent 7 years



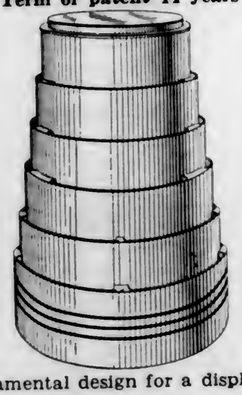
The ornamental design for a cabinet for greasing equipment or the like, substantially as shown and described.

114,775
DESIGN FOR A SANDWICH
David A. Wallace, Detroit, Mich.
Application August 3, 1938, Serial No. 79,069
Term of patent 7 years



The ornamental design for a sandwich, substantially as shown.

114,776
DESIGN FOR A DISPLAY STAND
Victor Weidner, Port Washington, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 30, 1938, Serial No. 78,981
Term of patent 14 years



The ornamental design for a display stand, as shown and described.

114,777
DESIGN FOR A SANDAL
Henry B. Axman, Brookline, Mass.
Application March 4, 1939, Serial No. 83,351
Term of patent 3½ years



The ornamental design for a sandal substantially as shown.

114,778
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,028
Term of patent 3½ years



The ornamental design for a flower basket, as shown.

114,779
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,029
Term of patent 3½ years



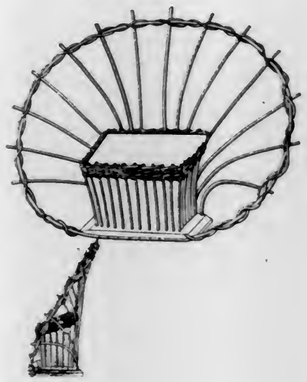
The ornamental design for a flower basket, as shown.

114,780
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,031
Term of patent 3½ years



The ornamental design for a flower basket, as shown.

114,781
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,032
Term of patent 3½ years



The ornamental design for a flower basket, as shown.

114,782
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,034
Term of patent 3½ years



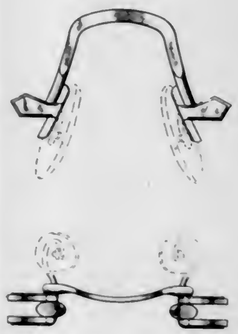
The ornamental design for a flower basket, as shown.

114,783
DESIGN FOR A FLOWER BASKET
Edward A. Bittel, Rochester, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York
Application June 24, 1938, Serial No. 78,035
Term of patent 3½ years



The ornamental design for a flower basket, as shown.

114,784
DESIGN FOR A BRIDGE FOR AN OPHTHALMIC MOUNTING
Samuel E. Bouchard, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 82,347
Term of patent 7 years



The ornamental design for a bridge for an ophthalmic mounting, substantially as shown.

114,785
DESIGN FOR A SHOE
David I. Cohen, Brooklyn, N. Y.
Application March 30, 1939, Serial No. 83,914
Term of patent 3½ years



The ornamental design for a shoe, substantially as shown.

114,786
DESIGN FOR A COMBINED SOLE AND HEEL
Adelbert Cushing Cutler, Braintree, Mass., assignor to Alfred Hale Rubber Company, Quincy, Mass., a corporation of Massachusetts
Application June 24, 1938, Serial No. 78,026
Term of patent 14 years



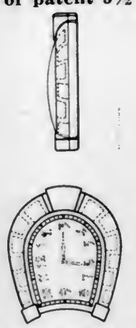
The ornamental design for a combined sole and heel, substantially as shown and described.

114,787
DESIGN FOR A SLIPPER
Max Delman, New York, N. Y.
Application April 6, 1939, Serial No. 84,079
Term of patent 3½ years



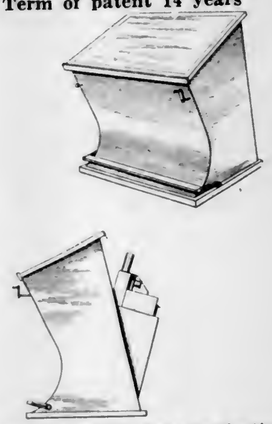
The ornamental design for a slipper, substantially as shown.

114,788
DESIGN FOR A WATCH OR SIMILAR ARTICLE
Arthur S. Freedman, Buffalo, N. Y.
Application January 13, 1937, Serial No. 67,041
Term of patent 3½ years



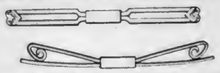
The ornamental design for a watch or similar article, as shown and described.

114,789
DESIGN FOR A PROJECTION VIEWING APPARATUS
Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 21, 1938, Serial No. 80,581
Term of patent 14 years



The ornamental design for a projection viewing apparatus, as shown.

114,790
DESIGN FOR A COLLAR HOLDER OR SIMILAR ARTICLE
George A. Ingleby, Cranston, R. I., assignor to The Hadley Company, Inc., Providence, R. I., a corporation of Rhode Island
Application February 23, 1939, Serial No. 83,162
Term of patent 7 years



The ornamental design for a collar holder or similar article, substantially as shown and described.

114,791
DESIGN FOR A PENHOLDER
Joseph Lusareta, San Luis Obispo, Calif.
Application March 13, 1939, Serial No. 83,542
Term of patent 3½ years



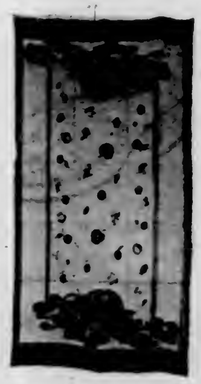
The ornamental design for a penholder, substantially as shown.

114,792
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Alexandra Mackewicz, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application March 18, 1939, Serial No. 83,657
Term of patent 7 years



The ornamental design for a spoon or other article of flatware, substantially as shown and described.

114,793
DESIGN FOR A SCARF OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,471
Term of patent 3½ years



The ornamental design for a scarf or similar article, substantially as shown.

114,794
DESIGN FOR A SCARF OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,472
Term of patent 3½ years



The ornamental design for a scarf or similar article, substantially as shown.

114,795
DESIGN FOR A SCARF OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,473
Term of patent 3½ years



The ornamental design for a scarf or similar article, substantially as shown and described.

114,796
DESIGN FOR A SCARF OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,475
Term of patent 3½ years



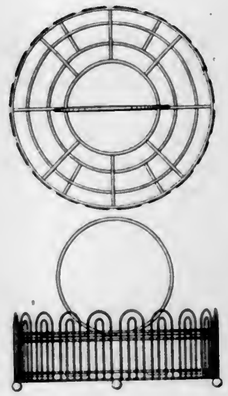
The ornamental design for a scarf or similar article, substantially as shown and described.

114,797
DESIGN FOR A SCARF OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,476
Term of patent 3½ years



The ornamental design for a scarf or similar article, substantially as shown and described.

114,798
DESIGN FOR A BASKET
Anthony W. Planeta, Linden, N. J.
Application February 2, 1939, Serial No. 82,716
Term of patent 7 years



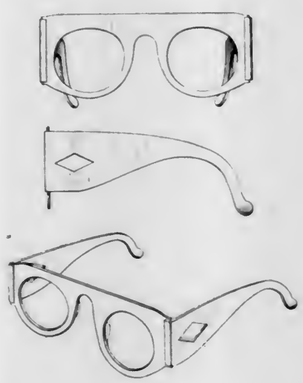
The ornamental design for a basket, as shown.

114,799
DESIGN FOR A WEDDING GOWN
Murray J. Shapiro, New York, N. Y.
Application April 8, 1939, Serial No. 84,142
Term of patent 3½ years



The ornamental design for a wedding gown, substantially as shown.

114,800
DESIGN FOR AN EYE GOGGLE FRAME
Raymond Simon, Chicago, Ill., assignor to New Era Optical Company, Chicago, Ill., a corporation of Illinois
Application August 15, 1938, Serial No. 79,345
Term of patent 3½ years



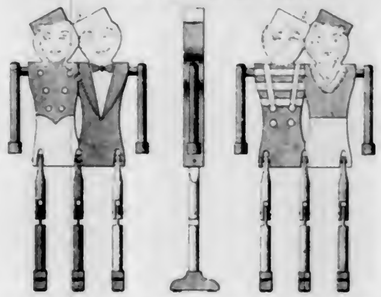
The ornamental design for an eye goggle frame, as shown.

114,801
DESIGN FOR A CLIP OR SIMILAR ARTICLE
Joseph Wuyts, New York, N. Y., assignor to Mazer Bros., New York, N. Y., a copartnership
Application March 28, 1939, Serial No. 83,867
Term of patent 3½ years



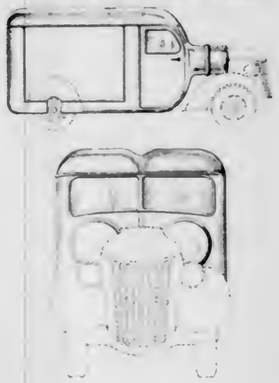
The ornamental design for a clip or similar article, substantially as shown.

114,802
DESIGN FOR A DANCING TOY
Anthony Daniel Amerise, Coral Gables, Fla.
Application September 27, 1938, Serial No. 80,113
Term of patent 14 years

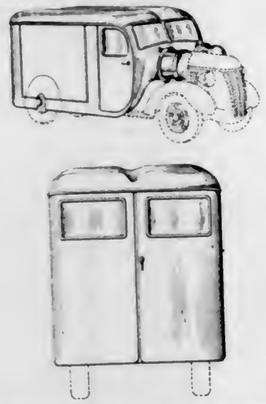


The ornamental design for a dancing toy, substantially as shown and described.

114,803
DESIGN FOR A VEHICLE
Carl J. Anderson, Lakewood, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio
Application August 8, 1938, Serial No. 79,187
Term of patent 7 years



114,803—Continued



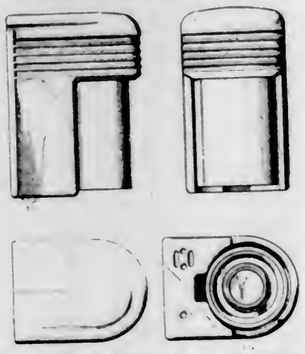
The ornamental design for a vehicle, as shown.

114,804
DESIGN FOR A VASE OR SIMILAR ARTICLE
Dorr Bothwell, Los Angeles, Calif., assignor to Gladding, McBean & Co., Los Angeles, Calif., a corporation of California
Application March 6, 1939, Serial No. 83,372
Term of patent 7 years



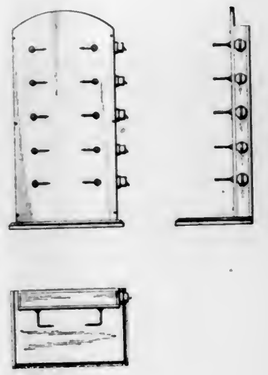
The ornamental design for a vase or similar article, substantially as shown.

114,805
DESIGN FOR A COMBINED LIGHT BRACKET AND SHADE
John W. Brooks, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application January 18, 1939, Serial No. 82,421
Term of patent 7 years



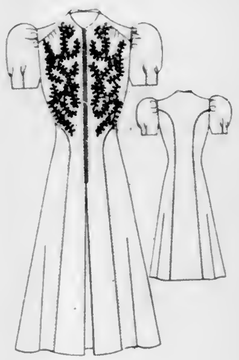
The ornamental design for a combined light bracket and shade, substantially as shown.

114,806
DESIGN FOR A FRANKFURTER COOKER
Benjamin A. Busey, York, and Robert B. Hartzler, Cly, Pa.
Application October 24, 1938, Serial No. 80,693
Term of patent 3½ years



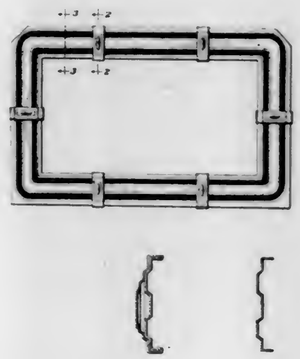
The ornamental design for a frankfurter cooker, as shown.

114,807
DESIGN FOR A REDINGOTE
Elizabeth M. Ciccone, New York, N. Y.
Application February 17, 1939, Serial No. 83,033
Term of patent 3½ years



The ornamental design for a redingote, substantially as shown and described.

114,808
DESIGN FOR A FRAME FOR A DISPLAY BOARD OR THE LIKE
Joseph J. Fabacher, New Orleans, La., assignor to Jackson Brewing Company, New Orleans, La., a corporation of Louisiana
Application February 2, 1939, Serial No. 82,730
Term of patent 3½ years



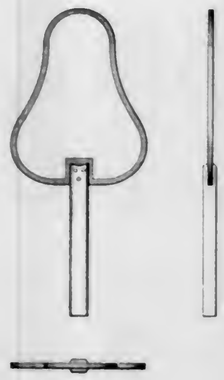
The ornamental design for a frame for a display board or the like, substantially as shown.

114,809
DESIGN FOR A DISPLAY BOARD OR THE LIKE
Joseph J. Fabacher, New Orleans, La., assignor to Jackson Brewing Company, New Orleans, La., a corporation of Louisiana
Application February 2, 1939, Serial No. 82,731
Term of patent 3½ years



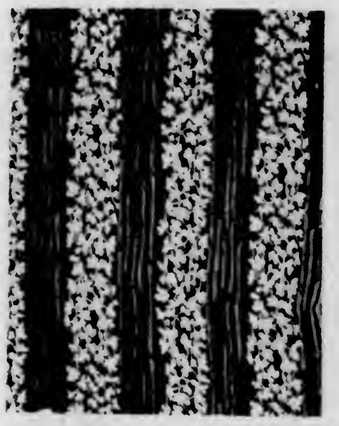
The ornamental design for a display board or the like, substantially as shown.

114,810
DESIGN FOR A STREET TENNIS BAT
William G. Fletcher, Bogota, N. J.
Application April 21, 1938, Serial No. 76,676
Term of patent 7 years



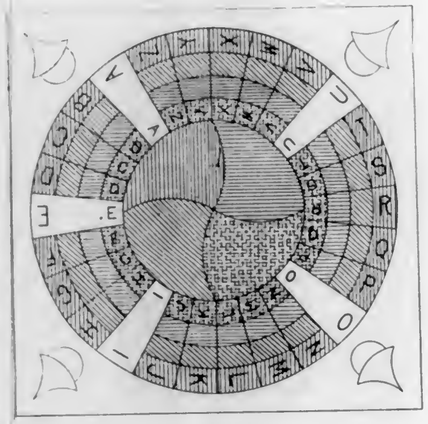
The ornamental design for a street tennis bat, substantially as shown and described.

114,811
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Osias M. Gottesman, New York, N. Y.
Application April 12, 1939, Serial No. 84,234
Term of patent 3½ years



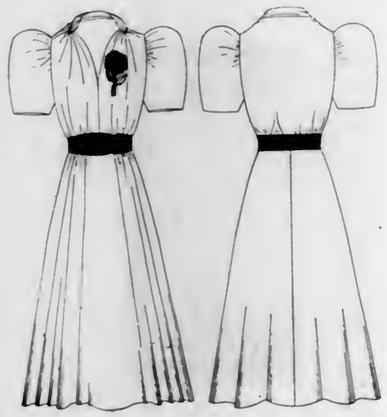
The ornamental design for a textile fabric or similar article, as shown.

114,812
DESIGN FOR A GAME BOARD
Fred Graef, Cincinnati, Ohio
Application February 7, 1939, Serial No. 82,843
Term of patent 7 years



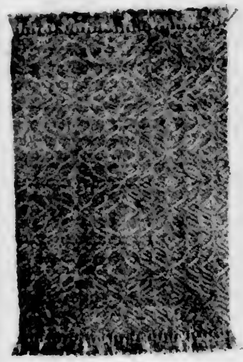
The ornamental design for a game board, as shown and described.

114,813
DESIGN FOR A DRESS
Herbert M. Harris, New York, N. Y.
Application March 22, 1939, Serial No. 83,739
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,814
DESIGN FOR A RUG OR SIMILAR ARTICLE
Willem Hoos, Rotterdam, Netherlands, assignor to Naamlooze Vennootschap: Vereenigde Touwfabrieken, Rotterdam, Netherlands, a corporation of the Netherlands
Application November 4, 1938, Serial No. 80,881
Term of patent 3½ years



The ornamental design for a rug or similar article, as shown.

114,815
DESIGN FOR A VASE OR SIMILAR ARTICLE
Jean Lawyer, Los Angeles, Calif., assignor to Gladding, McBean & Co., Los Angeles, Calif., a corporation of California
Application March 6, 1939, Serial No. 83,375
Term of patent 7 years



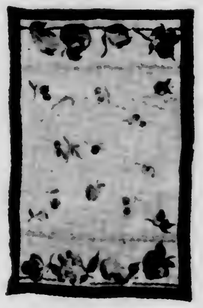
The ornamental design for a vase or similar article, substantially as shown.

114,816
DESIGN FOR A SCARF OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,469
Term of patent 3½ years



The ornamental design for a scarf or similar article, substantially as shown and described.

114,817
DESIGN FOR A DOILY OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,470
Term of patent 3½ years



The ornamental design for a doily or similar article, substantially as shown.

114,818
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,474
Term of patent 3½ years



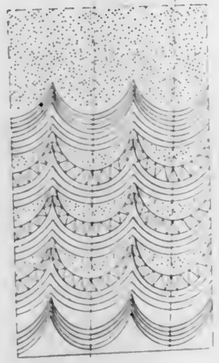
The ornamental design for a tablecloth or similar article, substantially as shown and described.

114,819
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 21, 1939, Serial No. 84,477
Term of patent 3½ years



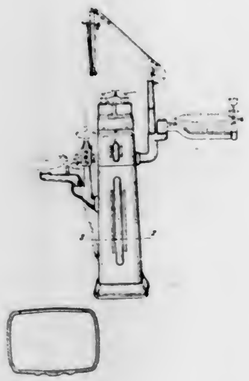
The ornamental design for a tablecloth or similar article, substantially as shown and described.

114,820
DESIGN FOR A TEXTILE FABRIC
George Megibow, New York, N. Y.
Application April 4, 1939, Serial No. 84,026
Term of patent 3½ years



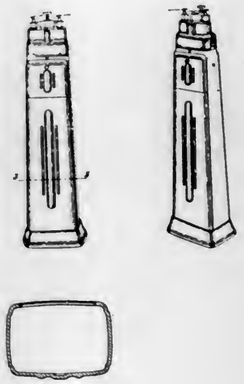
The ornamental design for a textile fabric, substantially as shown, and described.

114,821
DESIGN FOR A DENTAL UNIT
Edward L. Monnot, Canton, Ohio, assignor to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application August 6, 1938, Serial No. 79,162
Term of patent 7 years



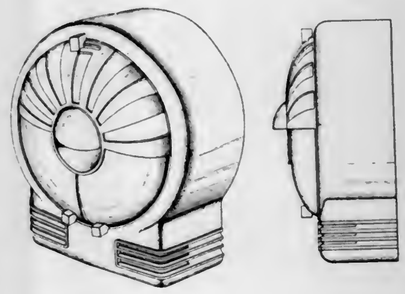
The ornamental design for a dental unit, as shown and described.

114,822
DESIGN FOR A STANDARD FOR A DENTAL UNIT OR THE LIKE
Edward L. Monnot, Canton, Ohio, assignor to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application August 6, 1938, Serial No. 79,164
Term of patent 7 years



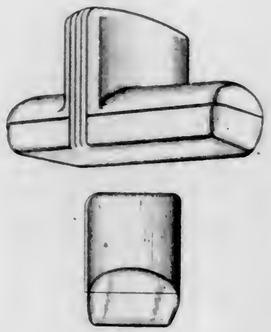
The ornamental design for a standard for a dental unit or the like, as shown and described.

114,823
DESIGN FOR AN AUTOMOBILE HEATER CASING
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application February 9, 1939, Serial No. 82,892
Term of patent 7 years



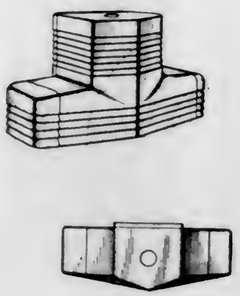
The ornamental design for an automobile heater casing, as shown.

114,824
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,940
Term of patent 7 years



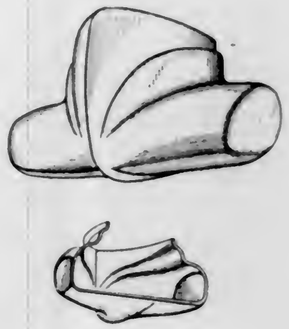
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,825
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,942
Term of patent 7 years



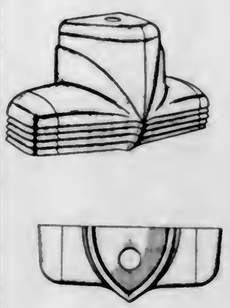
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,826
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,941
Term of patent 7 years



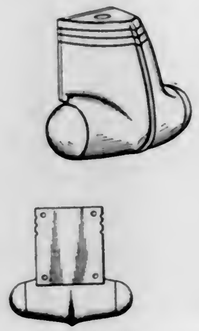
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,827
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,943
Term of patent 7 years



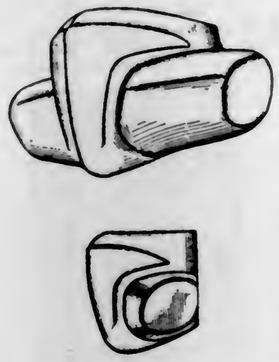
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,828
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,944
Term of patent 7 years



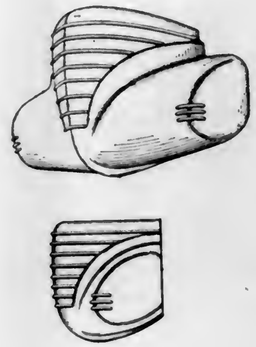
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,829
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,946
Term of patent 7 years



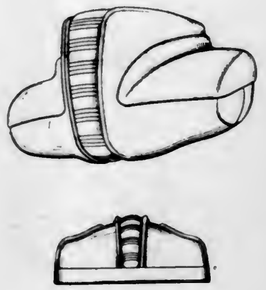
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,830
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,947
Term of patent 7 years



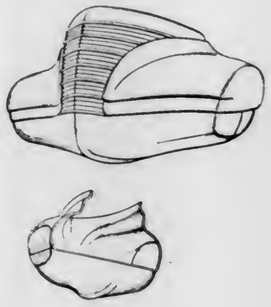
The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,831
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,948
Term of patent 7 years



The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,832
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1938, Serial No. 75,949
Term of patent 7 years



The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,833
DESIGN FOR A CASING FOR DOOR CLOSING AND CHECKING DEVICE OR SIMILAR ARTICLE
Louis F. Schmidt, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a corporation of Illinois
Application June 20, 1938, Serial No. 77,942
Term of patent 7 years



The ornamental design for a casing for door closing and checking device or similar article, substantially as shown and described.

114,834
DESIGN FOR A JACKET
Sam Stoll, New York, N. Y.
Application February 9, 1939, Serial No. 82,883
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown and described.

114,835
DESIGN FOR A BRACELET
George Dewey Sullivan, New York, N. Y., assignor to Trabert & Hoeffer, Inc., New York, N. Y.
Application December 31, 1937, Serial No. 74,020
Term of patent 3½ years



The ornamental design for a bracelet, substantially as shown.

114,836
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application April 12, 1939, Serial No. 84,236
Term of patent 3½ years



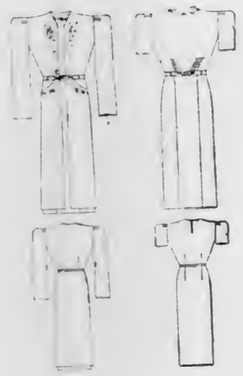
The ornamental design for a textile fabric or similar article, as shown.

114,837
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application April 18, 1939, Serial No. 84,363
Term of patent 3½ years



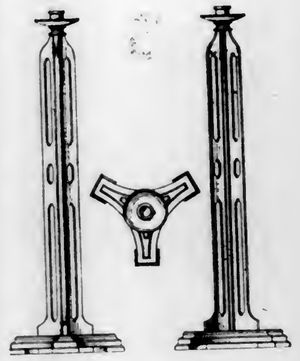
The ornamental design for a textile fabric or similar article, as shown.

114,838
DESIGN FOR AN ENSEMBLE DRESS
Samuel Weill, New York, N. Y.
Application January 6, 1939, Serial No. 82,191
Term of patent 3½ years



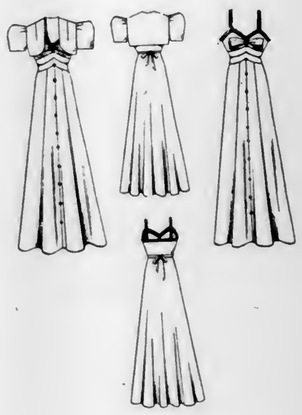
The ornamental design for an ensemble dress, substantially as shown and described.

114,839
DESIGN FOR A CANDLE HOLDER
Frank M. Wojtalewicz, Chicago, Ill.
Application January 23, 1939, Serial No. 82,546
Term of patent 3½ years



The ornamental design for a candle holder, substantially as shown.

114,840
DESIGN FOR A DRESS ENSEMBLE
Phyllis Byrnes, New York, N. Y.
Application January 30, 1939, Serial No. 82,654
Term of patent 3½ years



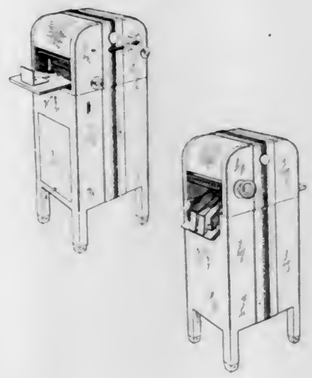
The ornamental design for a dress ensemble, substantially as shown.

114,841
DESIGN FOR AN ALPHABET FOR FORMING MONOGRAMS OR SIMILAR ARTICLES
Michael Chernow, Brooklyn, N. Y.
Application March 17, 1938, Serial No. 75,893
Term of patent 7 years



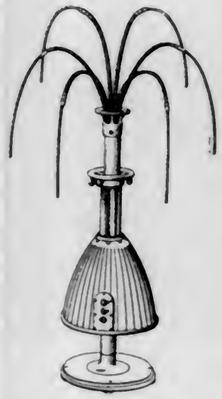
The ornamental design for an alphabet for forming monograms or similar articles, substantially as shown and described.

114,842
DESIGN FOR A PRINTING MACHINE
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application February 27, 1939, Serial No. 83,231
Term of patent 7 years



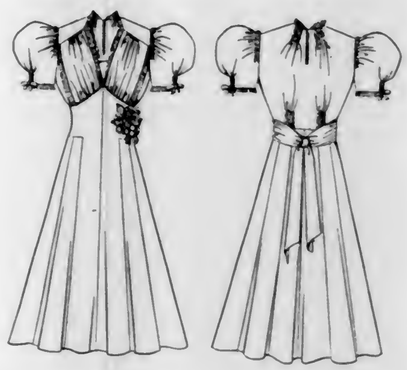
The ornamental design for a printing machine, substantially as shown.

114,843
DESIGN FOR AN AIR SUPPLY DEVICE FOR TREATING THE SCALP OR THE LIKE
Maximilian Ehrlich, Cedarhurst, N. Y., assignor to J. P. Fischer, Inc., New York, N. Y., a corporation of New York
Application April 27, 1938, Serial No. 76,769
Term of patent 7 years



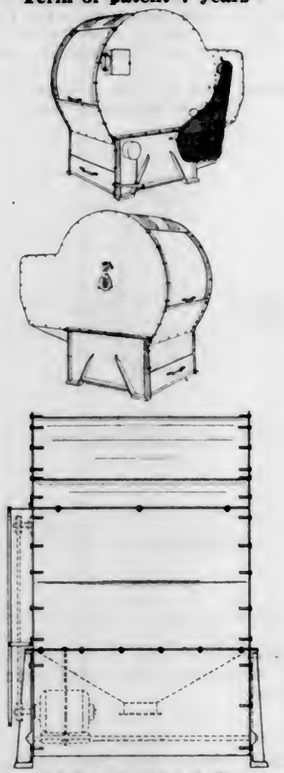
The ornamental design for an air supply device for treating the scalp or the like, substantially as shown and described.

114,844
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,209
Term of patent 3½ years



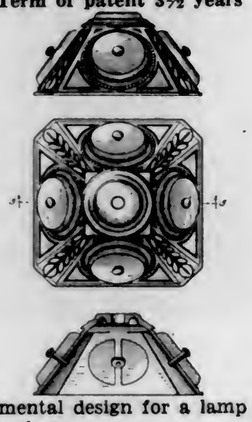
The ornamental design for a dress, substantially as shown.

114,845
DESIGN FOR A FUR CLEANING APPARATUS
Walter Haertel, Minneapolis, Minn.
Application January 26, 1938, Serial No. 74,556
Term of patent 7 years



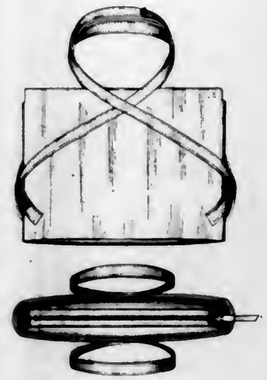
The ornamental design for a fur cleaning apparatus, as shown and described.

114,846
DESIGN FOR A LAMP BASE
James Kernes, Chicago, Ill.
Application April 10, 1939, Serial No. 84,164
Term of patent 3½ years



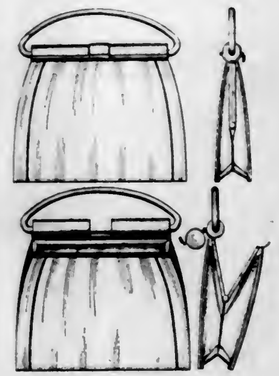
The ornamental design for a lamp base, substantially as shown.

114,847
DESIGN FOR A HANDBAG
Florence N. Lewis, New York, N. Y.
Application February 20, 1939, Serial No. 83,117
Term of patent 3½ years



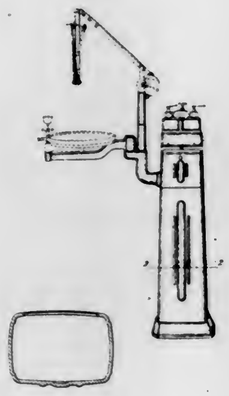
The ornamental design for a handbag as shown and described.

114,848
DESIGN FOR A HANDBAG
Florence N. Lewis, New York, N. Y.
Application February 20, 1939, Serial No. 83,118
Term of patent 7 years



The ornamental design for a handbag, as shown.

114,849
DESIGN FOR A DENTAL UNIT
Edward L. Monnot, Canton, Ohio, assignor to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application August 6, 1938, Serial No. 79,163
Term of patent 7 years



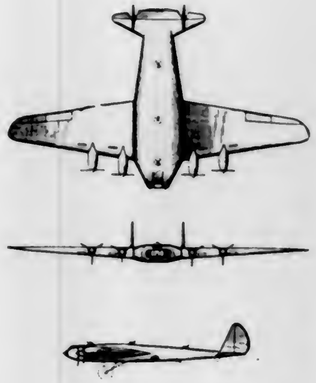
The ornamental design for a dental unit, as shown and described.

114,850
DESIGN FOR A HANDKERCHIEF OR SIMILAR ARTICLE
Harry Rosenbaum, Denver, Colo.
Application March 20, 1939, Serial No. 83,707
Term of patent 7 years



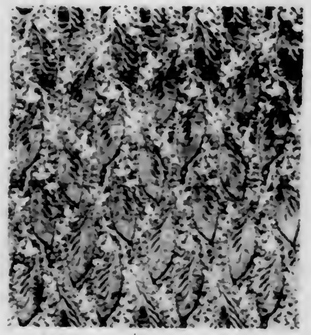
The ornamental design for a handkerchief or similar article, as shown.

114,851
DESIGN FOR A SYMMETRICALLY SECTIONED, ALL WING CANTILEVER MONOPLANE
James G. Taylor, Fairfield, and Oscar A. Swanson, Dayton, Ohio, assignors to the Government of the United States of America, as represented by the Secretary of War, and his successors in office
Application July 31, 1935, Serial No. 57,884
Term of patent 7 years



The ornamental design for a symmetrically sectioned, all wing cantilever monoplane, as shown and described.

114,852
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application April 12, 1939, Serial No. 84,235
Term of patent 3½ years



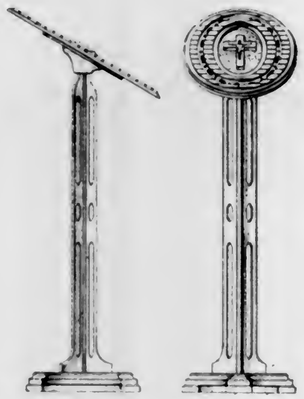
The ornamental design for a textile fabric or similar article, as shown.

114,853
DESIGN FOR A TASSEL
Ernest E. Weller, Cranston, R. I.
Application March 28, 1939, Serial No. 83,878
Term of patent 14 years



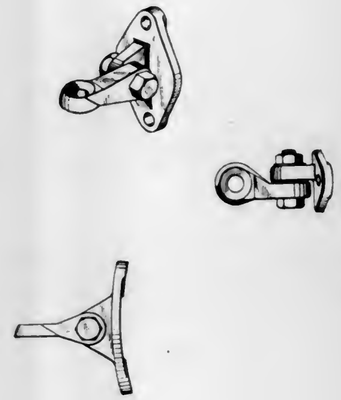
The ornamental design for a tassel, substantially as shown.

114,854
DESIGN FOR A CARD HOLDER
Frank M. Wojtalewicz, Chicago, Ill.
Application January 23, 1939, Serial No. 82,547
Term of patent 3½ years



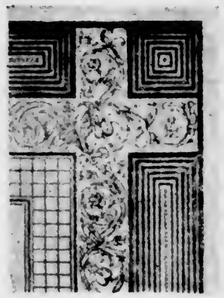
The ornamental design for a card holder, substantially as shown.

114,855
DESIGN FOR A LAMP MOUNTING BRACKET OR SIMILAR ARTICLE
Harold B. Donley, Columbus, Ohio, assignor to Columbus Metal Products, Inc., Columbus, Ohio, a corporation of Ohio
Application September 12, 1938, Serial No. 79,849
Term of patent 7 years



The ornamental design for a lamp mounting bracket or similar article, as shown.

114,856
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Bert Eifenbein, New York, N. Y.
Application April 21, 1939, Serial No. 84,452
Term of patent 3½ years



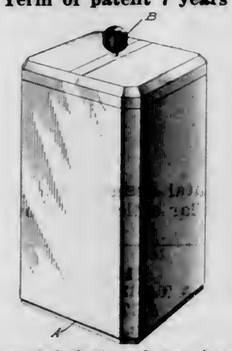
The ornamental design for a tablecloth or similar article, substantially as shown and described.

114,857
DESIGN FOR A CHILD'S COAT OR SIMILAR ARTICLE
Morris Glass, New York, N. Y.
Application March 29, 1939, Serial No. 83,901
Term of patent 3½ years



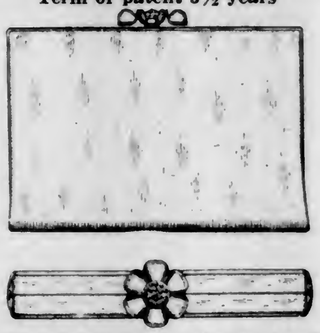
The ornamental design for a child's coat or similar article, substantially as shown and described.

114,858
DESIGN FOR A TEA CANISTER
Meyer Kamenstein, New York, N. Y.
Application July 9, 1938, Serial No. 78,371
Term of patent 7 years



The ornamental design for a tea canister, as shown and described.

114,859
DESIGN FOR A HANDBAG
Florence N. Lewis, New York, N. Y.
Application June 11, 1938, Serial No. 77,736
Term of patent 3½ years



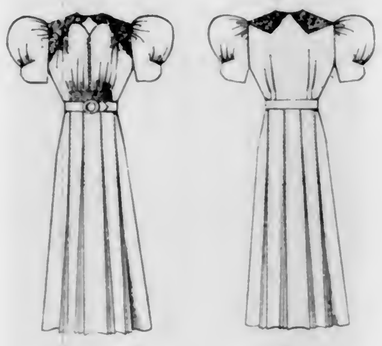
The ornamental design for a handbag, as shown and described.

114,860
DESIGN FOR A HANDBAG
Florence N. Lewis, New York, N. Y.
Application February 18, 1939, Serial No. 83,075
Term of patent 7 years



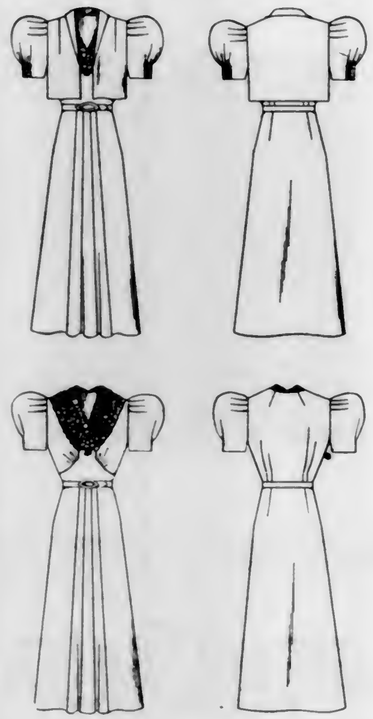
The ornamental design for a handbag, as shown.

114,861
DESIGN FOR A DRESS
Morris Massow, New York, N. Y.
Application April 8, 1939, Serial No. 84,131
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,862
DESIGN FOR A DRESS ENSEMBLE
Morris Massow, New York, N. Y.
Application April 8, 1939, Serial No. 84,132
Term of patent 3½ years



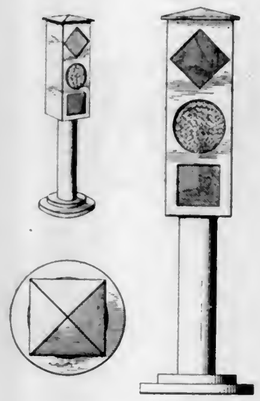
The ornamental design for a dress ensemble, substantially as shown.

114,863
DESIGN FOR A VANITY CASE
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application September 2, 1938, Serial No. 79,727
Term of patent 7 years



The ornamental design for a vanity case, substantially as shown.

114,864
DESIGN FOR A TRAFFIC SIGNAL
Gordon Muir, Grosse Pointe Park, Mich.
Application November 23, 1938, Serial No. 81,309
Term of patent 14 years



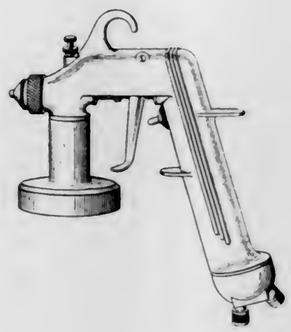
The ornamental design for a traffic signal, as shown and described.

114,865
DESIGN FOR A TRAFFIC SIGNAL FACING
Gordon Muir, Grosse Pointe Park, Mich.
Application February 24, 1939, Serial No. 83,190
Term of patent 14 years



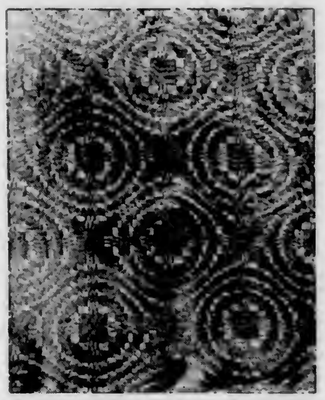
The ornamental design for a traffic signal facing, as shown and described.

114,866
DESIGN FOR A COMBINED SPRAY GUN AND CONTAINER CAP
Adelbert C. Radtke, Forest Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 3, 1938, Serial No. 80,223
Term of patent 7 years



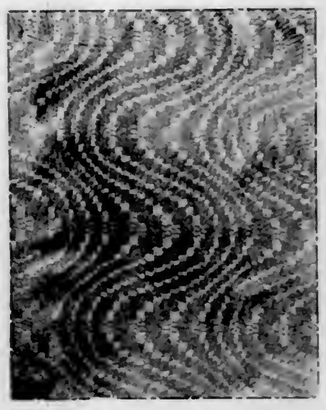
The ornamental design for a combined spray gun and container cap, substantially as shown and described.

114,867
DESIGN FOR A TEXTILE FABRIC
Milton H. Rubin, New York, N. Y.
Application April 21, 1939, Serial No. 84,463
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

114,868
DESIGN FOR A TEXTILE FABRIC
Milton H. Rubin, New York, N. Y.
Application April 21, 1939, Serial No. 84,464
Term of patent 3½ years



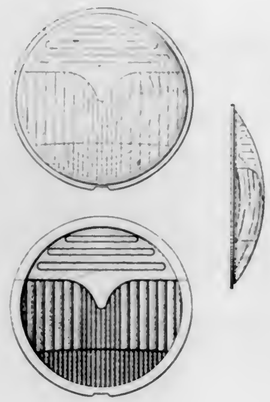
The ornamental design for a textile fabric, substantially as shown.

114,869
DESIGN FOR A TEXTILE FABRIC
Milton H. Rubin, New York, N. Y.
Application April 21, 1939, Serial No. 84,465
Term of patent 3½ years



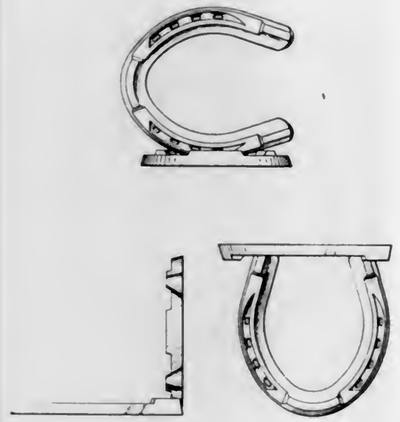
The ornamental design for a textile fabric, substantially as shown.

114,870
DESIGN FOR A LENS FOR A HEADLIGHT OR THE LIKE
Albert R. Stahl, Somerset, Pa.
Application April 8, 1939, Serial No. 84,152
Term of patent 14 years



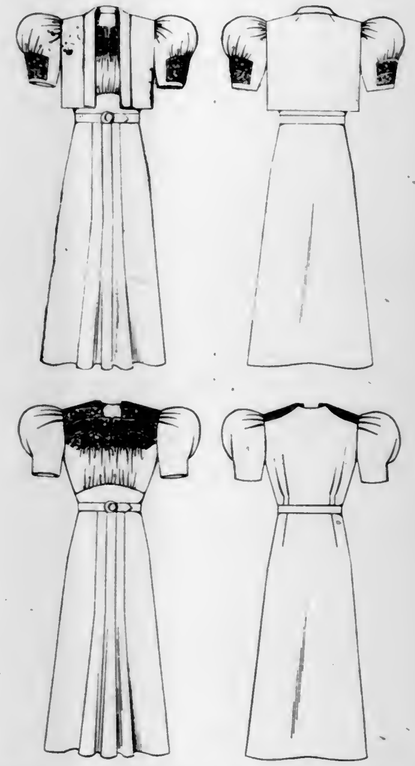
The ornamental design for a lens for a headlight or the like, as shown.

114,871
DESIGN FOR A BOOK END
Rudolph Dopyera, Los Angeles, Calif.
Application July 12, 1938, Serial No. 78,419
Term of patent 7 years



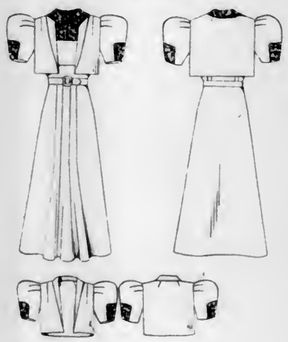
The ornamental design for a book end, as shown.

114,872
DESIGN FOR A DRESS ENSEMBLE
Morris Massow, New York, N. Y.
Application April 8, 1939, Serial No. 84,134
Term of patent 3½ years

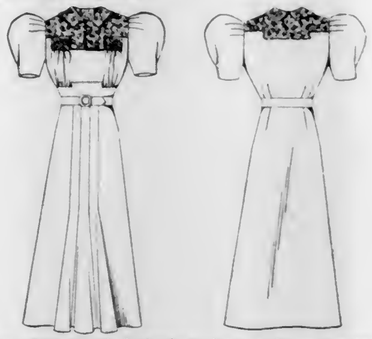


The ornamental design for a dress ensemble, substantially as shown.

114,873
DESIGN FOR A DRESS ENSEMBLE
Morris Massow, New York, N. Y.
Application April 8, 1939, Serial No. 84,135
Term of patent 3½ years

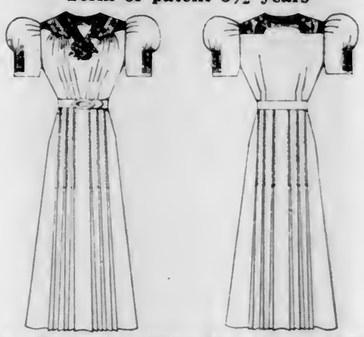


114,873—Continued



The ornamental design for a dress ensemble, substantially as shown.

114,874
DESIGN FOR A DRESS
Morris Massow, New York, N. Y.
Application April 12, 1939, Serial No. 84,226
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,875
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 15, 1939, Serial No. 84,301
Term of patent 3½ years



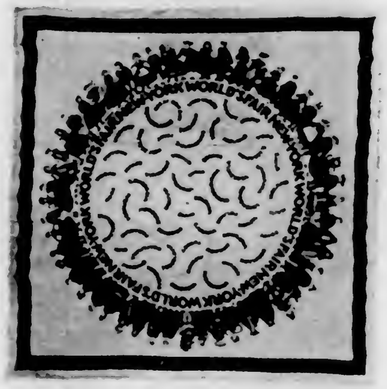
The ornamental design for a dress, substantially as shown.

114,876
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 15, 1939, Serial No. 84,303
Term of patent 3½ years



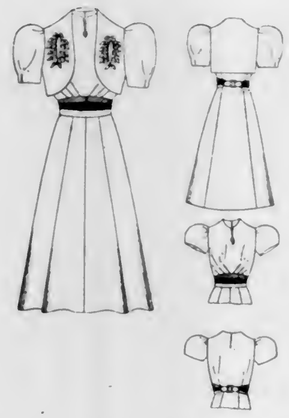
The ornamental design for a dress, substantially as shown.

114,877
DESIGN FOR A SCARF
Victor Unterreiner, Budapest, Hungary
Application April 20, 1939, Serial No. 84,407
Term of patent 3½ years



The ornamental design for a scarf, substantially as shown.

114,878
DESIGN FOR A DRESS ENSEMBLE
Louis Epstein, New York, N. Y.
Application April 15, 1939, Serial No. 84,308
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown and described.

114,879
DESIGN FOR A DRESS
Louis Epstein, New York, N. Y.
Application April 15, 1939, Serial No. 84,309
Term of patent 3½ years



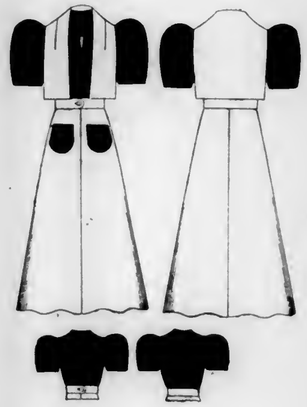
The ornamental design for a dress, substantially as shown and described.

114,880
DESIGN FOR A CAP
Rose Feintuck, New York, N. Y.
Application January 26, 1939, Serial No. 82,605
Term of patent 3½ years



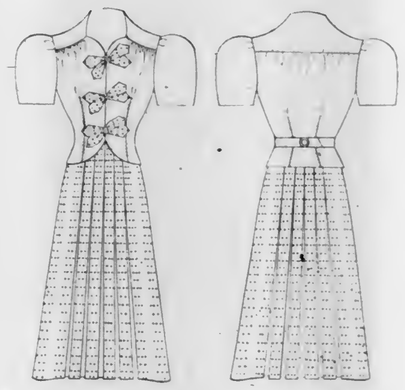
The ornamental design for a cap, substantially as shown and described.

114,881
DESIGN FOR A DRESS ENSEMBLE
Herbert M. Harris, New York, N. Y.
Application April 15, 1939, Serial No. 84,304
Term of patent 3½ years



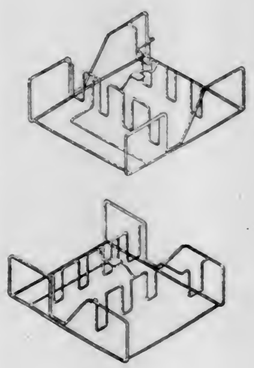
The ornamental design for a dress ensemble, substantially as shown.

114,882
DESIGN FOR A DRESS
Herbert M. Harris, New York, N. Y.
Application April 15, 1939, Serial No. 84,305
Term of patent 3½ years



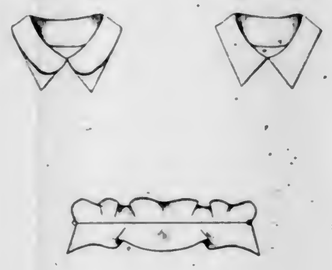
The ornamental design for a dress, substantially as shown.

114,883
DESIGN FOR A TRAY
Henry Herzog, Lincoln, Nebr.
Application July 25, 1938, Serial No. 78,697
Term of patent 7 years



The ornamental design for a tray, as shown.

114,884
DESIGN FOR A COLLAR
Arnold Livingston, New York, N. Y.
Application March 20, 1939, Serial No. 83,688
Term of patent 3½ years



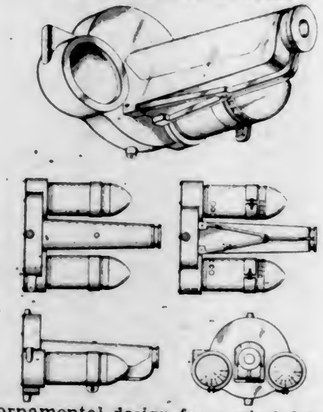
The ornamental design for a collar, substantially as shown and described.

114,885
DESIGN FOR A DRESS
Morris Massow, New York, N. Y.
Application April 8, 1939, Serial No. 84,133
Term of patent 3½ years



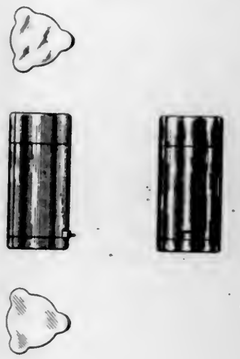
The ornamental design for a dress, substantially as shown.

114,886
DESIGN FOR A WIND DRIVEN TWIN GENERATOR
Joseph H. Jacobs, Minneapolis, Minn.
Application February 23, 1938, Serial No. 75,354
Term of patent 14 years



The ornamental design for a wind driven twin generator, as shown.

114,887
DESIGN FOR A LIPSTICK CASE
James L. Younghusband, Chicago, Ill.
Application April 1, 1939, Serial No. 83,968
Term of patent 7 years



The ornamental design for a lipstick case, substantially as shown.

Patents Nos. 2,158,993 to 2,159,958

THE OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 502—No. 4 TUESDAY, MAY 23, 1939 Price—$16 per year

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May 23, 1939

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Labels	15—No.	53,007 to No.	53,021, inclusive.
Prints	5—No.	17,395 to No.	17,399, inclusive.
Reissues	5—No.	21,093 to No.	21,097, inclusive.
Patents	967—No.	2,158,993 to No.	2,159,958, inclusive.
Designs	96—No.	114,888 to No.	114,983, inclusive.
Total	1,303		

Disclaimers

2,098,811.—*Hans Pulfrich*, Berlin-Wilmersdorf, Germany. Composite Body. Patent dated November 9, 1937. Disclaimer filed May 2, 1939, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1 and 4 of said Letters Patent.

2,119,061.—*Irving M. Stein* and *Jacob C. Peters, Jr.*, Philadelphia, Pa. Control Method and Apparatus. Patent dated May 31, 1938. Disclaimer filed May 5, 1939, by the assignee, *Leeds and Northrup Company*.

Hereby makes and enters this disclaimer to the subject matter of each of claims 1, 2, and 3 of said Letters Patent.

2,123,133.—*Albert Callsen*, Stuttgart-Botnang, Germany. Apparatus for Switching on the Starter of an Internal Combustion Engine. Patent dated July 5, 1938. Disclaimer filed May 2, 1939, by the assignee, *Robert Bosch Gesellschaft mit beschränkter Haftung*.

Hereby enters this disclaimer to claims 4 and 5 of said Letters Patent.

2,134,538.—*Ralph N. Stoddard*, Pittsburgh, and *Edwin H. Vedder*, Forest Hills, Pa. Welding Apparatus. Patent dated October 25, 1938. Disclaimer filed April 27, 1939, by the assignee, *Westinghouse Electric & Manufacturing Company*.

Hereby disclaims from the scope of the claims 2 and 3 all spot welding apparatus having means other than fluid means for moving said electrodes into engagement with the work under pressure.

Trade-Mark Registrations Canceled

341,605. Fresh citrus fruit. Culbertson Lemon Assn., Saticoy, Calif. Registered December 15, 1936. Canceled May 1, 1939.

349,884. Certain named distilled alcoholic liquors. Armand Levinson, Baltimore, Md. Registered September 7, 1937. Canceled May 1, 1939.

351,069. Waterproofing materials. Howard E. Cann, doing business as H. E. Cann Company, Baltimore, Md. Registered October 19, 1937. Canceled May 1, 1939.

Transfer of Class

Order No. 3,471

U. S. Patent Office, *Washington, D. C., May 9, 1939.*

The following transfer, to take effect Thursday, June 1, 1939, is hereby ordered:

Class 260, subclasses 112–123 and 398–428, from Division 6 to Division 63.

CONWAY P. COE,
Commissioner.

Notice of Cancellation

U. S. Patent Office, *Washington, D. C., May 5, 1939.*

Walter A. Alderman, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Texas Citrus Fruit Growers Exchange, Mission, Tex., to effect the cancellation of trade-mark registration No. 212,023, issued April 20, 1926, to Walter A. Alderman, Thirteenth and B Streets, Sacramento, Calif., and a notice of such proceeding sent by registered mail to said Alderman at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Walter A. Alderman, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business May 6, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,844; Trade-Mark Division, 1,557. Oldest new case, Sept. 27, 1938; oldest amended, Aug. 15, 1938.)
(The dates given are 1938 except where † indicates 1939)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Dec. 6	Dec. 9	738
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 19	Nov. 22	648
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Mar. 8	†Mar. 8	341
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	†Feb. 1	†Jan. 20	425
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Feb. 10	†Feb. 11	545
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 28	Nov. 5	1,132
5725	7. JARBOE, C. G., Optics; Photography	†Jan. 24	†Jan. 23	889
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Dec. 9	Aug. 15	930
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Jan. 9	†Jan. 9	657
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	†Jan. 9	†Jan. 31	616
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 27	†Jan. 30	449
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Nov. 15	Nov. 8	608
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 12	Nov. 21	673
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Feb. 17	†Feb. 15	448
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 23	Dec. 27	1,128
5716	16. SPENCER, C. J., Telegraphy; Telephony	Dec. 3	Nov. 30	798
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 31	Dec. 15	473
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 18	Nov. 25	562
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	†Feb. 10	Dec. 23	448
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	†Feb. 11	†Feb. 1	312
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Dec. 30	†Jan. 18	501
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Dec. 26	Dec. 26	815
7624	23. BUTTNER, W. J., Registers (part)	Oct. 22	Oct. 7	283
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 9	Nov. 29	946
5709	25. BLAKELY, C. F., Classifying Solids Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 20	†Feb. 1	478
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Dec. 29	†Jan. 7	610
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 22	Nov. 4	1,059
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Dec. 5	†Jan. 13	481
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Oct. 15	Dec. 8	651
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 18	Nov. 19	866
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	†Feb. 6	†Feb. 6	625
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	†Feb. 15	†Jan. 9	397
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	†Jan. 27	†Jan. 27	658
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	†Feb. 17	Dec. 16	308
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	†Jan. 16	†Jan. 31	572
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Dec. 1	Dec. 15	527
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 20	Dec. 19	675
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Nov. 1	Nov. 12	647
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Feb. 7	†Feb. 7	533
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Dec. 8	Dec. 8	1,389
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Dec. 7	Nov. 19	313
5882	42. CUTTING, H. O., Electric Signaling	Oct. 24	Oct. 17	642
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	†Jan. 4	Dec. 22	471
4087B	44. HARVEY, L. P., Refrigeration	Nov. 29	Nov. 23	612
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	†Jan. 14	†Jan. 7	601
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Dec. 16	Dec. 16	643
6082	47. LOWE, E. R., Clutches; Brakes	†Jan. 25	†Jan. 14	382
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Feb. 10	†Feb. 6	381
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 21	Oct. 15	991
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Nov. 8	Nov. 8	1,202
5628	51. BACKUS, C. D., Radiant Energy (part)	†Feb. 1	†Feb. 1	694
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 14	†Jan. 6	797
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	†Jan. 12	†Jan. 7	591
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Feb. 1	†Feb. 9	305
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Sept. 27	Oct. 1	781
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Dec. 2	Dec. 2	1,131
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	†Jan. 18	Dec. 27	462
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	†Feb. 2	†Feb. 1	357
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	†Jan. 25	†Jan. 31	575
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Dec. 30	Dec. 30	439
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Dec. 10	Dec. 10	508
5621	62. PUGH, E. C., Games; Geometrical Instruments	†Feb. 7	†Feb. 13	419
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Dec. 23	Dec. 22	399
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	†Jan. 9	†Jan. 7	864
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Nov. 15	Nov. 23	592
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND — Trade-Marks	†Apr. 1	†Apr. 12	1,464
	Labels and Prints	†Apr. 28	†May 1	93
2605	Designs: H. H. KALUPY	†Mar. 22	†Apr. 12	841

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

ALFONSE GAMS AND GUSTAVE WIDMER
v.
COE, COMMISSIONER OF PATENTS

No. 7,159. Decided April 3, 1939

SEC. 4915 R. S.—BILL FILED AFTER NOTICE OF APPEAL TO COURT OF CUSTOMS AND PATENT APPEALS—ELECTION OF REMEDY.

Where an applicant for patent after filing notice of appeal to the United States Court of Customs and Patent Appeals from the adverse decision from the Board of Appeals, filed a bill under sec. 4915 R. S., *Held* the bill was properly dismissed on the ground that the applicant had elected to proceed by way of appeal.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. E. F. Wenderoth and *A. Ponack* for Alfonse Gams and Gustave Widmer.

Mr. R. F. Whitehead for the Commissioner of Patents.

Before STEPHENS, MILLER, and EDGERTON, Associate Justices

PER CURIAM:

This is an appeal from a decree of the district court dismissing a bill in equity brought under section 4915 R. S. (U. S. C., tit. 35, § 63) to obtain a patent. The bill was dismissed on the ground that plaintiffs had filed in the Patent Office notice of appeal from the Board of Appeals of the Patent Office to the United States Court of Customs and Patent Appeals.

The pertinent portions of U. S. C., tit. 35, are these:

Section 59a:

"If any applicant is dissatisfied with the decision of the Board of Appeals, he may appeal to the United States Court of Customs and Patent Appeals, in which case he waives his right to proceed under section 63 of this title. . ."

Section 60:

"When an appeal is taken to the United States Court of Customs and Patent Appeals, the applicant shall give notice thereof to the Commissioner, and file in the Patent Office, within such time as the Commissioner shall appoint, his reasons of appeal, specifically set forth in writing."

Section 63:

"Whenever a patent on application is refused by the Commissioner of Patents, the applicant, unless appeal has been taken from the decision of the Board of Appeals to the United States Court of Customs and Patent Appeals, and such appeal is pending or has been decided, in which case no action may be brought under this section, may have remedy by bill in equity. . ."

In *Jensen* v. *Lorenz*, 68 App. D. C. 39, 92 F.(2d) 992, cert. den. 302 U. S. 751, 482 O. G. 453, a divided court held that plaintiffs who had taken the steps enumerated in section 60, by giving to the Commissioner of Patents notice of appeal and seasonably filing in the Patent Office their reasons of appeal, had appealed to the Court of Customs and Patent Appeals and, as the appeal was "pending", could not maintain a bill in equity under section 63. The Court of Appeals for the Second Circuit had taken the same position in *Bakelite Corporation* v. *National Aniline & Chemical Company*, 83 F.(2d) 176, 467 O. G. 3. The doctrine was applied again in *United States ex rel. White* v. *Coe*, 68 App. D. C. 218, 95 F.(2d) 347, 348.

In the light of the briefs, we interpret the stipulation that "a notice of appeal . . . was filed" as including the filing of reasons of appeal. The case is therefore on all fours with the Jensen case. We think that case should not be overruled. The majority of the court there said:

"It is evident that Congress intended to require an election by the party as between the two remedies offered to him, to wit, the appeal to the Court of Customs and Patent Appeals on the one hand or a suit in equity under section 4915, R. S., as amended (35 U. S. C. A. § 63), on the other hand, and that when such election is made by the litigant it is to be final." 68 App. D. C. 39, 41, 92 F.(2d) 992, 994.

Cases[1] cited by appellant, which involve statutory time limits and not statutory options, are not in point.

Affirmed.

U. S. Court of Customs and Patent Appeals

AVERY *v.* CHASE

No. 4,000. Decided January 23, 1939

[100 F.(2d) 205]

1. INTERFERENCE—ESTOPPEL—RULE 109.

Where an interference involving an application of C and an application of F owned by A's assignee was voluntarily declared by the Primary Examiner after expiration of the motion period in another interference involving another application of C, an application of A and the same application of F, *Held* that the interference was inadvertently or improperly declared and that upon the record C was estopped under rule 109 from making the counts and could only be relieved from such estoppel by a showing upon the record in the earlier interference of good cause for not having complied with rule 109. (Overruling *In re Chase*, 447 O. G. 997.)

2. SAME—SAME—SAME.

"To hold that the Primary Examiner may ignore rule 109 when a party, by failure to comply with it in an interference proceeding, has lost any rights he may have had to claims in his application, and declare another interference restoring those rights, without any showing of excuse by such party in the original interference for not complying with the rule, thus relieving himself of the estoppel against him, would create an intolerable situation of confusion in the prosecution of applications in the Patent Office."

3. SAME—SAME—NOT RESTRICTED TO THE APPLICATION OF THE DOCTRINE OF RES ADJUDICATA.

"We are convinced of the soundness of our decision in the case of *In re Shimer*, 21 C. C. P. A. (Patents) 979, 446 O. G. 5, expressly affirmed in the case of *In re Chase*, 21 C. C. P. A. (Patents) 1183, 447 O. G. 997, and again in the case of *In re Brashares*, 22 C. C. P. A. (Patents) 873, 455 O. G. 264, holding that estoppel will ordinarily lie for failure to comply with rule 109, even though a second interference be necessary; or, in other words, that estoppel is not restricted to the application of the doctrine of res adjudicata."

[1] *Credit Company Limited* v. *Arkansas Central Railway Co.*, 128 U. S. 258, 9 S. Ct. 107, 32 L. Ed. 448; *Old Nick Williams Co.* v. *United States*, 215 U. S. 541, 30 S. Ct. 221, 54 L. Ed. 318.

APPEAL from Patent Office. Reversed.

BLAND, *J.*, dissenting.

Mr. Theodore H. Lassagne (*Mr. Leonard S. Lyon* and *Mr. Charles M. Thomas* of counsel) for Avery.

Mr. George F. Scull (*Mr. Stuart Hilder* and *Mr. George M. Anderson* of counsel) for Chase.

LENROOT, *J.*:

This is an appeal in an interference proceeding wherein the Board of Appeals of the United States Patent Office affirmed a decision of the Examiner of Interferences awarding priority of invention of the subject matter in issue to appellee.

The interference is between an application of appellant filed on October 25, 1926, Serial No. 144,034, assigned to the Marchant Calculating Machine Company, and appellee's application filed on August 17, 1927, Serial No. 213,637, assigned to the Monroe Calculating Machine Company. Appellant is, therefore, the senior party.

The invention relates to improvements in calculating machines. Eleven counts are involved; because of the sole question involved in this appeal it is deemed unnecessary to describe the invention in detail or set forth any of the counts.

The history of the instant interference is concisely stated in the decision of the Examiner of Interferences herein as follows:

> The present interference was set up as the result of a series of circumstances which will be briefly outlined. On August 13, 1928, interference No. 57,166 was declared which involved some seven parties including an application of Chase, an application of Friden and the present Avery application. During the motion period certain motions to dissolve and to amend were filed. In a decision dated January 21, 1930, the Law Examiner granted the motion to dissolve and denied a motion to amend which had been presented by Chase, the senior party. This decision was appealed by Chase, which appeal was dismissed by the Board of Appeals on December 8, 1930.
>
> On October 10, 1930, interference No. 60,503 was declared by the Primary Examiner between another application of Chase and the same application of Friden. This interference was dissolved on the motion of Friden on the ground that Chase was estopped by virtue of his failure to bring forward his second application during proceedings in interference No. 57,166. This decision was upheld by the Board of Appeals but when the claims were rejected on the ground of estoppel he appealed, carrying the question to the Court of Customs and Patent Appeals. In its decision, *In re Chase*, 447 O. G. 997; 1934 C. D. 489; 71 F.(2d) 178, the court reversed the Examiner and the Board, holding that since the second interference had been set up by the Office prior to the termination of the first interference there was no estoppel against Chase. Accordingly, interference No. 60,503 was reformed. The present interference resulted from a motion brought in interference No. 60,503 by the Marchant Calculating Machine Company, the assignee of the Friden and Avery applications.
>
> When interference No. 60,503 was reformed the party Friden moved to dissolve on the ground that Chase was estopped. This motion was denied by the Examiner of Interferences who held that the decision of the court was binding upon the tribunals of the Patent Office even though rendered in an ex parte action. The party Avery has reargued this question of estoppel at final hearing in this interference. It was pointed out that interference No. 60,503 was declared some nine months after appeal had been taken in interference No. 57,166 which appeal was subsequently dismissed by the Board of Appeals. It was suggested that this fact was not called to the attention of the court and was urged that this constitutes sufficient basis for ignoring the decision of *In re Chase*, supra. This is not believed to be the case. While there is nothing in the above decision which definitely indicates that the court took into consideration the nature of the Board's action in dealing with the appeal in interference No. 57,166, their decision was of record in the file of interference No. 57,166, which file appears to have been considered by the court. The showing which has been made by the party Avery is not considered sufficient to justify the Examiner of Interferences in reaching a conclusion contrary to that expressed in the decision of *In re Chase*, supra.

To this statement it should be added that, following the reformation of interference No. 60,503, a motion was made in that proceeding to substitute the application of appellant here involved for the application of Friden. Thereafter, as a result of said motion, the instant interference was declared between Chase, appellee here, and Avery.

Appellee filed a preliminary statement alleging conception of the invention in 1922 and its reduction to practice in 1924 and 1925, and took testimony supporting such dates. Appellant took no testimony and relies upon his filing date, October 25, 1926, for conception and constructive reduction to practice of the invention.

The Examiner of Interferences found that the proofs presented by appellee established that he conceived and reduced the invention to practice prior to appellant's filing date, and that under our decision in the case of *In re Chase*, 21 C. C. P. A. (Patents) 1183, 71 F.(2d) 178, 447 O. G. 997, appellee was not estopped from making the claims corresponding to the counts in issue. He therefore awarded priority of invention to appellee.

Appellant appealed from such decision to the Board of Appeals. The Board affirmed the decision of the Examiner of Interferences. In its decision it stated:

> Chase took testimony. Avery chose to rely upon his filing date for constructive reduction to practice. The Examiner analyzed the testimonial record presented by Chase and found that the proofs clearly established that he was in full possession of the invention in issue prior to the record dates upon which Avery relies. Although the notice of appeal includes certain items in relation to the holding by the Examiner of Interferences that the party Chase had sustained the burden of proof upon him in his testimonial record, we understand that the merits of this phase of the Examiner's decision is not brought forward for contest here. It appears admitted at the top of page 12 of Avery's printed brief before us that this feature is no longer urged.
>
> Avery now relies upon a contention that Chase should be held estopped from receiving claims corresponding to the counts. • • •

The Board further stated in said decision that it was in agreement with the conclusion of the Examiner of Interferences that upon the question of estoppel our decision in *In re Chase*, supra, was controlling and therefore appellee was not estopped from making the claims constituting the counts before us.

From such decision of the Board appellant took the appeal before us.

In his reasons for appeal the only issue raised is that of estoppel of appellee to make the claims constituting the counts, and that is the sole question before us.

In our decision in the case of *In re Chase*, supra, we expressed the opinion that the special facts involved therein made inapplicable the doctrine approved by us in the cases in *In re Austin*, 17 C. C. P. A. (Patents) 1202, 40 F.(2d) 756, 399 O. G. 625, *In re Shimer*, 21 C. C. P. A. (Patents) 979, 69 F.(2d) 556, 446 O. G. 5, and other cases decided by us, and declared in certain cases decided by the Court of Appeals of the District of Columbia. In our decision we stated:

> Appellant in the case at bar contends that irrespective of the propriety of applying the doctrine of estoppel in cases similar to those above cited, estoppel, in this instance, should not apply on account of the special facts involved. First it is urged that Friden did not voluntarily attempt to acquire the claims involved, but that the Primary Examiner, knowing of Chase's second application and of the Friden disclosure, suggested that Friden copy the claims, which was done. After Friden had copied the claims and brought about the interference at the instigation of the Examiner, he made a motion to dissolve on the ground that Chase was estopped. Thus Friden moved to dissolve the interference which he had provoked, and which would leave the claims in his possession regardless of his actual priority. It is also pointed out by appellant that at the time of the declaration of the two-party interference the seven-party interference had not yet been terminated and that the issues involved in the two-party interference were not the issues involved in the seven-party interference, and that in order for Friden and Chase to have contested priority of the issues involved in the instant case the second interference would have been formed in any event. It is urged that if Chase had brought forward in the seven-party interference his second application and there challenged Friden or any of the other parties who could make the counts (some of them could not), the Examiner would have done exactly what he did do, anyway—declare the second interference.
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> We think the doctrine of estoppel above announced would apply if the issues involved here could have been properly suggested and decided in the seven-party interference. It seems to be conceded that they could not have been decided there and that the declaration of the second interference was necessary. The declaration of the second interference was the proper procedure for the Patent Office to get the exact issues between these parties set at one side for the purpose of trial. It seems anomalous to hold that having set them aside voluntarily while the seven-party interference was going on, Chase would be held to be estopped from claiming that which he claimed in his second application.
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> • • • • • • •
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> Appellant has argued at considerable length concerning the application generally of the doctrine of estoppel arising from a failure to proceed under rule 109. It is suggested by appellant that the case of *In re Martin*, 48 App. D. C. 187, which we discussed in *In re Shimer*, supra, was in harmony with the other cases of the Court of Appeals of the District of Columbia, and is applicable to the facts at bar. We pointed out in *In re Shimer* that the doctrine announced in *In re Martin*, supra, was not in harmony in certain respects with other decisions of the Court of Appeals of the District of Columbia.
>
> With reference to this contention we think it sufficient to say that we do not, in the least, wish to weaken the force of nor make less applicable, in proper cases, the doctrine of estoppel as announced in the Wasserfallen, Shimer and other cases cited, because we think it is of the utmost importance that troublesome, expensive, and sometimes vexatious litigation in the Patent Office should be expedited or avoided. Under the particular facts of the case at bar, we think, however, that the doctrine does not apply, and that the decision of the Board of Appeals affirming the decision of the Examiner in rejecting the claims on the ground of estoppel should be, and it is, reversed.

Appellant in the case at bar contends that in the case last cited the record was not complete and that this court was misled in its holding that there were special facts involved which prevented the application of the doctrine of estoppel to Chase; that in fact, at the time of the declaration of interference No. 60,503 between Chase and Friden, the seven-party interference, No. 57,166, had been terminated by dissolution, and that said interference No. 60,503 was not provoked by Friden but by the action of the Primary Examiner.

We think it clearly appears from the record that interference No. 60,503 was initiated by the Primary Examiner. In view of our conclusion, we do not find it necessary to decide whether interference No. 57,166 had been terminated by dissolution at the time interference No. 60,503 was declared, but we shall assume, as appellee contends, that it had not been terminated.

Appellant insists that our decision in *In re Chase*, supra, is irreconcilable with our views expressed in the case of *In re Shimer*, supra, rendered prior to our decision in the Chase case, and our decision in the case of *In re Brashares*, 22 C. C. P. A. (Patents) 873, 74 F.(2d) 751, 455 O. G. 264, rendered subsequent thereto, and also that said Chase decision is contrary to the rules of law declared by the court in other cited cases, among which is the case of *In re Austin*, supra.

In the last cited case an application of the appellant in that case and a joint application of the appellant and one MacNeill were owned by a common assignee. An interference was declared between said joint application and the application of one Atwood. While said interference was pending, but long after the motion period under rule 109 of the Rules of the United States Patent Office had expired, the said common assignee moved that the interference be reformed by admitting thereto the sole application of Austin. In connection with said motion an affidavit was presented in behalf of the common assignee setting forth reasons why said motion was not made within the motion period. The Patent Office tribunals denied said motion, and in an ex parte prosecution by Austin the matter came before us. We held that, the common assignee having failed to move within the motion period to admit the Austin application, Austin and his assignee were estopped from making claims which might have been adjudicated in that interference. In our decision we stated:

> • • • Furthermore, if a party to an interference fails to comply with the rules of the Patent Office relative to the presentation of such claims, it is thereafter estopped from presenting them as a basis for another interference between the same parties. [Citing cases.]
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> • • • • • • •
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> It is true, as argued by counsel for appellant, that, at the time the common assignee moved to reform interference No. 51,235 by admitting appellant's application as to counts 1 and 2 and other claims, the question of priority had not been determined; whereas, in the cases hereinbefore referred to, the issues of priority had been decided. However, the principle announced in the cited cases is applicable here, and, if the rules of the Patent Office are to be given any force and effect, this is a proper case for their application, otherwise, the common assignee of several applications could subject an applicant involved in an interference with one of its applications to prolonged, expensive, and vexatious litigation.

It will be noted that in this case estoppel was based wholly upon failure of appellant to act within the motion period provided by rule 109. The interference had not been terminated when it was sought to add the Austin application to the interference, so that estoppel under the doctrine of res adjudicata was not involved. However, it does appear that, if said motion had been seasonably made, the issues could have been determined in the original interference, while in the case at bar it is conceded that the issues here involved could not have been determined in the original seven-party interference, No. 57,166, because all of the parties thereto could not have made the claims here involved.

In the case of *In re Shimer*, supra, Shimer's application had been involved in a previous interference involving five parties. Subsequent to the expiration of the motion period in that interference, but while the interference was pending before the Examiner of Interferences, a motion to amend the interference by adding three new counts thereto was brought by the party Shimer. It was conceded that one of the parties to that interference, MacClatchie, could not have made claims corresponding

to the counts proposed to be added, and that if Shimer's motion to add counts had been granted it would have been necessary to declare another interference excluding MacClatchie therefrom. The motion of Shimer was denied because not seasonably filed.

In Shimer's ex parte prosecution of his application the Patent Office rejected certain claims, including those proposed to be added to said interference, upon the ground of estoppel. We affirmed such action and in the opinion stated:

> It is the view of the tribunals and the Solicitor for the Patent Office that the subject matter of appellant's present application, as stated in his claims 23, 26, 27, and 28, was involved in said interference proceeding, and was common to the disclosures of appellant and other parties to said interference; that it was his duty, if he asserted any such claims, to proceed under rule 109 of the Patent Office to move to amend his application to include the same therein, and to thus procure their addition as counts to the interference or interferences, as the same might be necessary; and that, not having done so, he should now be estopped to make such claims. The principle underlying the application of the doctrine of estoppel is thought by said tribunals to be that to now allow these claims would be to "provide grounds for a new interference involving an application with which the applicant has already been involved in interference".
>
> In response to this the appellant argues that there was no common subject matter between his application and that of MacClatchie in said interference, but that there was such common subject matter between his application and that of Paterson et al., another party thereto; that the addition of said counts would have resulted only in a redeclaration of interference between appellant and the party Paterson et al., which would have resulted in no injury to Paterson et al. This, counsel argues, would bring the case squarely within the doctrine announced by the court of appeals in *In re Martin*, 48 App. D. C. 187. In that case, where estoppel was urged, the court said: "Assuming that Martin should have moved under rule 109, his failure to do so is not shown to have resulted in injury to anyone; therefore, one of the elements necessary to an estoppel is absent."
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> The doctrine announced in the Martin case is not in harmony with other decisions of the said court of appeals on this subject. These cases hold that if the matter was one which might have been determined in the first interference, the party having a right to have them so determined, who fails to do so, cannot afterward require their consideration. The rule prevails, irrespective of the number of parties in the original interference. In determining whether the same could have been so determined, the interference in fact depends chiefly upon the subject matter disclosed, and not merely upon the language of the respective claims. The following cases are in point and add no such limitations to the doctrine as are stated in *In re Martin*, supra; *Blackford v. Wilder*, 28 App. D. C. 535; *New Departure Mfg. Co. v. Robinson*, 39 App. D. C. 504; *In re Capen*, 43 App. D. C. 342; *In re Dement*, 49 App. D. C. 261; *In re Doble*, 57 App. D. C. 10, 16 F.(2d) 350. It will be noted that in some of these cases, following the Martin case, that case is not cited as authority.
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> Soon after this court took jurisdiction of appeals from the Patent Office tribunals, we took the same view of the matter, and have since continued these holdings. In our first examination of the subject (*In re Austin*, 17 C. C. P. A. (Patents) 1202, 40 F.(2d) 756) we said, in part:
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> • • • Furthermore, if a party to an interference fails to comply with the rules of the Patent Office relative to the presentation of such claims, it is thereafter estopped from presenting them as a basis for another interference between the same parties.
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> This doctrine of estoppel is further developed in *In re Krauch et al.*, 19 C. C. P. A. (Patents) 1003, 56 F.(2d) 290; *In re Boudin*, 19 C. C. P. A. (Patents) 1187, 58 F.(2d) 448; *In re Ellis et al.*, 18 C. C. P. A. (Patents) 1060, 47 F.(2d) 963.
>
> It may be stated that this rule works no hardship to him who is diligent in pursuit of his rights. When an interference is declared, the files of his contestants are open to him. He has full cognizance of their disclosures and claims. So advised, it becomes his duty to put forward every claim he has. Rule 109 affords him this opportunity. If the rule be not enforced or enforceable, then delays and litigation are greatly increased. It is quite obvious that the doctrine of estoppel, as applied in these cases, results in the better conduct of the business of the Patent Office and in the public good.
>
> We agree with the Board of Appeals that the appellant is estopped as to claims 23, 26, 27, and 28, and that their rejection therefore was proper.

Said case of *In re Shimer*, supra, is distinguished from the case at bar in that Shimer's original application was there involved, while here a second application of appellee Chase, not in interference No. 57,166, is involved, and Shimer sought to add counts after the expiration of the motion period, while in the case at bar the present interference was voluntarily declared by the Primary Examiner after the expiration of the motion period in interference No. 57,166.

Attention, however, is called to the fact that Shimer sought the interference while the original interference was pending, and that it was held that he was estopped from making the involved claims solely because of his failure to seek an interference before the expiration of the motion period under rule 109.

It will be observed that in our decision in the case of *In re Chase*, supra, it is stated that we did not intend to weaken in the least the doctrine of estoppel as announced in the Shimer case.

The case of *In re Brashares*, supra, involved an application owned by the assignee of an earlier filed application of one Padmore, which application had been involved in a three-party interference upon a single count. This interference was dissolved without an award of priority, and a patent was issued to one of the parties to the interference, Prescott. Thereafter Brashares copied one claim from the Prescott patent and made certain other claims for the purpose of bringing about an interference proceeding between his application and the Prescott patent. The claims were rejected by the Patent Office tribunals upon the ground of estoppel based upon the failure of Brashares' assignee to bring a motion under rule 109 in the three-party interference between Prescott, Shaw, and Padmore, the application of the last named party being owned by Brashares' assignee.

We affirmed such rejection, although it appears from our opinion that such claims could not have been adjudicated in said interference, and that, if a motion had been made by Brashares' assignee in the interference under rule 109 and allowed, a new interference would have been declared between Brashares and one of the parties to the interference, Prescott. In our opinion we stated:

> Upon what were deemed by this court to be apposite and controlling authorities, as well as upon reason, we have more than once affirmed proceedings of the Patent Office under rule 109, supra, thus indicating our belief in the validity of the rule itself, and of the reasonableness of its application under the facts which the cases then before us presented.

In said decision we also discussed the case of *In re Shimer*, supra, and with respect to it said:

> In the case of *In re Shimer*, 21 C. C. P. A. (Patents) 979, 69 F.(2d) 556, the rule was applied under a somewhat different state of facts.
>
> Of our findings there, the brief of appellant says:
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> • • • [those findings] have perhaps gone as far as this or any court has ever gone in approving the Patent Office in its applications of this doctrine of estoppel.
>
> In that case the application involved was the same application which had been in an interference in which the party, Shimer, had seen applications of his opponents which disclosed, but, apparently did not claim, the subject matter of certain of the claims he was seeking to make in the ex parte proceeding. The tribunals of the Patent Office held that to allow such claims to be made would be to "provide grounds for a new interference involving an application with which the applicant has already been involved in interference", and this court affirmed that view.
>
> A difference between the Shimer case, supra, and the case at bar is that the Brashares application, the only application belonging to the Union Company in which the here involved claims could have been made, was never in interference with the Prescott application.
>
> Careful consideration has been given to contentions made on behalf of appellant, and the authorities cited in support of same, but we are unable to discern any distinction in principle between the situation existing here and that which existed in the several cases above noted in which the application of the doctrine of estoppel by the tribunals of the Patent Office was sustained, nor do we think the facts of this case are analogous to those which existed in the case of *In re Chase*, 21 C. C. P. A. (Patents) 1183, 71 F.(2d) 178.

From the foregoing it clearly appears that the only pertinent fact present in the case of *In re Chase*, supra, which was not present in one or more of the cited cases, was the fact that the Primary Examiner voluntarily, in effect, declared the interference here involved, while in the cases cited either the party estopped sought an interference after the expiration of the motion period, or there had been an entire absence of action by anyone with respect to the interference upon the claims involved.

This brings us to a consideration of the question of whether a voluntary declaration of an interference by the Commissioner of Patents, acting through his subordinates, prevents the application of the rule of estoppel announced in the Austin, Shimer, and Brashares cases, supra.

It is clear that interference No. 60,503 was declared long after the motion period in interference No. 57,166 had expired, and it is also clear that if, immediately prior to the time interference No. 60,503 was declared, Chase had moved in interference No. 57,166 to bring in his application here involved, without any showing of excuse for delay in making the motion, such motion would have been denied; or, if granted, appellant could have successfully maintained a motion to dissolve the interference upon the ground that the counts were unpatentable to Chase by reason of estoppel.

Rule 109 of the Rules of the United States Patent Office reads as follows:

> 109. An applicant involved in an interference may, within a time fixed by the Examiner of Interferences not less than thirty days after the preliminary statements (referred to in rule 110) of the parties have been received and approved, or if a motion to dissolve the interference has been brought by another party, within thirty days from the filing thereof, on motion duly made as provided by rule 153, file an amendment to his application containing any claims which in his opinion should be made the basis of interference between himself and any of the other parties.
>
> • • • • • • •
>
> Any party to an interference may bring a motion to put in interference any claims already in his application or patent which should be made the basis of interference between himself and any of the other parties. Any party to an interference may bring a motion to add or substitute any other application owned by him, as to the existing issue, or to include an application or a patent owned by him, as to claims which should be made the basis of interference between himself and any of the other parties. Such motions are subject to the same conditions and the procedure in connection therewith is the same, so far as applicable, as hereinabove set forth for motions to amend.

We are frank to say that in our decision in the Chase case, supra, we were of the opinion that the voluntary declaration of an interference by the Primary Examiner was equivalent to the Examiner's having allowed a motion by Chase in interference No. 57,166 under rule 109 to bring in his second application, upon a showing of cause for failure to file such motion during the motion period.

[1] We are now of the opinion that we were in error in this view; that interference No. 60,503 was inadvertently or improvidently declared by the Primary Examiner; and that upon the record before us appellee was estopped under rule 109 from making the claims constituting the counts here involved, and could only be relieved from such estoppel by a showing upon the record in interference No. 57,166 of good cause for not having complied with rule 109. There is no such showing, and there is no indication in the record that, if the Primary Examiner had not voluntarily declared interference No. 60,503, appellee Chase would ever have sought such an interference.

Appellee contends that the right to extend time for motions under rule 109 is discretionary with the Patent Office, and that the declaration by the Primary Examiner of the present interference was a tacit waiver by the Patent Office of any objection as to the timeliness of the setting up of said interference.

It seems to be the practice of the Patent Office, continued for many years, to admit on motion additional claims and applications to an interference previously declared, after the expiration of the motion period under rule 109, upon a showing of cause for delay in making the motion. This practice, however, is not here involved, for the question before us is, may the Primary Examiner properly declare an interference at a time when the claims are not allowable in the application of one of the parties because of his failure to bring them forward in a prior interference to which he was a party.

It is not here claimed that rule 109 is invalid or unreasonable. In the case of *United States, ex rel. Horace Kocchlin et al.* v. *Marble*, C. D. 1882, 442, 22 O. G. 1365, the Supreme Court of the District of Columbia, in discussing the rules of the Patent Office, said:

> • • • Congress, in creating the Patent Office, has by express legislation given that Office the power to enact rules for its conduct. Those rules, if they are within the powers of the Office, are just as authoritative as the laws of Congress itself, if within the limitation of its powers. • • •

The rules, in so far as they affect the rights of applicants, are necessarily binding upon the officials of the Patent Office as well as the applicants.

[2] To hold that the Primary Examiner may ignore rule 109 when a party, by failure to comply with it in an interference proceeding, has lost any rights he may have had to claims in his application, and declare another interference restoring those rights, without any showing of excuse by such party in the original interference for not complying with the rule, thus relieving himself of the estoppel against him, would create an intolerable situation of confusion in the prosecution of applications in the Patent Office. No party to an interference

could know even after the interference had been terminated what issues he might be called upon to meet. By the observance of rule 109, where the motion period has expired in an interference all parties thereto are reasonably certain that there will be no other or further contest between the parties or any of them with respect to the applications in interference, or other applications held by one of them involving the same invention disclosed in one of the applications in interference.

We conclude that, when interference No. 60,503 was declared, the claims corresponding to the counts here involved were, upon the record before us, unpatentable to appellee by reason of estoppel occasioned by his failure to comply with rule 109 in interference No. 57,166, the record not disclosing any excuse for such failure. This being true, the motion to dissolve the interference should have been granted.

It appears from the decision of the Examiner of Interferences that a like motion to dissolve was made when interference No. 60,503 was reformed after our decision in the case of *In re Chase*, supra.

It is true that the doctrine of estoppel is not favored, because estoppels preclude a party from showing the truth; but it must be remembered that, when interference No. 57,166 was declared, appellee Chase had access to appellant's application here involved, while appellant had no knowledge of appellee's application involved in the interference at bar. After the motion period under rule 109 in interference No. 57,166 had expired, appellant had the right to assume that neither appellee nor his assignee had any other pending applications which would interfere with appellant's application in said interference; and if, after such motion period expired, appellee sought to excuse himself for not complying with rule 109, appellant would have a right inter partes to resist any motion by appellee to add any other application to the interference.

These considerations lead to the conclusion that rule 109 is a reasonable one, but inasmuch as its reasonableness has not been questioned we will not pursue this subject further.

For the reasons hereinbefore stated, we feel compelled to come to the conclusion that we were in error in the case of *In re Chase*, supra, in considering that the voluntary declaration of interference No. 60,503 by the Primary Examiner, followed by the declaration of interference No. 69,901, was a fact which prevented the operation of rule 109 as an estoppel against appellee herein.

There is some contention by appellee that the Chase application here involved is for a different invention than that disclosed in the first Chase application involved in interference No. 57,166. Appellant contends that the counts before us are directed to the same invention as that covered by the counts of interference No. 57,166, differing therefrom only in scope.

In the decision of the Board of Appeals in interference No. 60,503, it is stated:

> The counts of the present issue are somewhat more specific than the count of the issue of the earlier interference but they relate to the same general subject matter. It is admitted that they do not read on the earlier Chase application.

The Avery application here involved is the same application that was involved in interference No. 57,166. Apparently no division was required upon the theory that the application involved separate and distinct inventions, and we do not think that any differences between the counts of the interference before us and the count in interference No. 57,166 should prevent the application of rule 109, assuming without deciding that if the invention involved in interference No. 57,166 was separate and distinct from that involved in the interference at bar, compliance with rule 109 in bringing the invention here involved into interference 57,166 would not have been obligatory.

We are not unmindful that the United States Court of Appeals for the District of Columbia has, in the case of *International Cellucotton Products Co.* v. *Coe*, 85 F.(2d) 869, 1936 C. D. 40, 471 O. G. 243, expressly approved our decision in the case of *In re Chase*, supra, and has held that, where an interference has been declared by the Patent Office, estoppel will not lie against a party to that interference with respect to counts or claims that could not have been adjudicated in that interference. In other words, in the view of that court, estoppel in such cases can be applied only under the doctrine of res adjudicata.

[3] We of course entertain the highest regard for the views of that court, and disagree with it most reluctantly. The conflict of decisions may create an embarrassing situation for the tribunals of the Patent Office, but we are convinced of the soundness of our decision in the case of *In re Shimer*, supra, expressly affirmed in the case of *In re Chase*, supra, and again in the case of *In re Brashares*, supra, holding that estoppel will ordinarily lie for failure to comply with rule 109, even though a second interference be necessary; or, in other words, that estoppel is not restricted to the application of the doctrine of res adjudicata. We would observe that if, in the opinion of the Commissioner of Patents, the interests of the public and orderly procedure in the Patent Office would be better served by adherence to the views expressed by the Court of Appeals of the District of Columbia in the case of *International Cellucotton Products Co.* v. *Coe*, supra, it is of course within the power of the Commissioner so to amend rule 109 as to avoid any conflict of decisions.

It is also a matter of the utmost regret that we feel compelled to overrule our decision in the case of *In re Chase*, supra. The Patent Office tribunals correctly followed our decision in the case last cited, and we reverse the Board of Appeals only because we feel called upon to reverse, in effect, our own decision in the case of *In re Chase*, supra. However, the judges of courts are human and not infallible, and when they err, as they sometimes do, they should not hesitate to correct their errors.

To recapitulate, while the issues herein could not have been decided in interference No. 57,166, because all of the parties thereto could not have made the claims constituting the counts, the same situation existed in the case of *In re Shimer*, supra; in that case the original interference had not terminated at the time that Shimer sought to add other counts, and in the case at bar appellee claims that interference No. 57,166 had not terminated at the time the interference before us was declared. The one material point of difference in the two cases is that in the case at bar the interference was voluntarily declared by the Primary Examiner, while in the Shimer case the Primary Examiner had refused to declare a second interference. This one point of difference we have fully discussed herein, and we conclude that this point does not so distinguish the two cases as to relieve appellee from estoppel by reason of failure to proceed in interference No. 57,166 within the motion period under rule 109.

It follows from the foregoing that the decision of the Board of Appeals must be reversed.

In the briefs of both parties there is considerable discussion of the question of whether, if appellant be awarded priority of invention, he will be entitled to a patent embracing the counts here involved. We have given this question no consideration, for that is a matter which may not be determined in this appeal.

An addition to the record in this case was made by writ of certiorari, issued upon application of appellee. The writ was granted, and inasmuch as it appears that such addition was proper and material to the issues herein, the costs of such addition will be assessed against the appellant.

The decision of the Board of Appeals is reversed.

Reversed.

BLAND, J., (dissenting).

It is not necessary for me to recite the facts involved in this interference proceeding since they are stated in the majority opinion and are also stated in the original ex parte Chase case.

Appellant Avery's contentions here are that the present record makes it clear that the former Chase case was erroneously decided and that controlling facts which appear in this record were not disclosed in the former record. While it may be said that the instant record makes clear certain facts which were not so clear in the former record, it is not thought that the difference between the records affords any justification for arriving at a conclusion different from that which the court arrived at in the ex parte case, unless we are of the opinion that the court erroneously failed to apply the doctrine of estoppel in that case.

Appellant has pointed out in his very elaborate brief what he regards to be the important features of the original Chase case which he contends are out of harmony with the decisions of this and other courts and frankly urges that this court change its former conclusion. He points out that, as evidenced by various publications, including articles appearing in the Journal of the Patent Office Society, which cites the report of the Patent Office Advisory Committee made to the Secretary of Commerce (448 O. G. 267), the decisions of this court and of the Court of Appeals of the District of Columbia (now the United States Court of Appeals for the District of Columbia), on the subject of estoppel under rule 109, have led to great uncertainty and confusion in interference practice.

In view of the considerations to which appellant has alluded, I agree that it is important in the decision of this case to review the whole question of the so-called doctrine of estoppel which has developed in connection with rule 109 of the Patent Office. This will necessarily require a consideration of the history of the development of the doctrine.

Estoppels are not favored by the courts because they prevent the proving of the truth and should be applied only in very clear cases. The principle applied by the Patent Office to the Chase application during its ex parte consideration is the outgrowth of a doctrine which was, as far as I have been able to discover, first invoked a third of a century ago by the Court of Appeals of the District of Columbia in *Blackford* v. *Wilder*, 28 App. D. C. 535, 127 O. G. 1255. The court held that the party Wilder was not entitled to the allowance of claims in an application because of the fact that he was estopped from claiming ex parte that which he had lost in a prior interference, which interference had been finally adjudicated by the court. It was there stated that it would be presumed that all matters had been adjudicated in the original holding which could have there been adjudicated. The estoppel was there clearly based upon the doctrine of res judicata. This doctrine is a very old one and one which had been definitely and clearly announced by the Supreme Court of the United States in *Nesbit* v. *Independent District*, 144 U. S. 610. (The last-cited case is the basis of the decision in *Blackford* v. *Wilder*, supra.)

Without going into too much detail in the way of citation and discussion, it is fair to state that a consideration of the cases subsequently decided by the Court of Appeals of the District of Columbia discloses that the doctrine of res judicata was not only extended but a kind of equitable doctrine was also applied. The latter was to the effect that where one avoided a test of priority at a time when he had the right to speak and claim priority, it would be inequitable to allow him to claim in an ex parte proceeding that which he had refused to claim and assert priority to when he had the opportunity to do so. But, in every instance, in the early development of the doctrine there had to be certain elements present. The estoppel in pais was declared to exist where there was a statement, admission or act by one of the parties which was inconsistent with his later claim of priority, and where the statement, admission or act made by him was relied upon by his opponent to the latter's injury. If any one of these elements did not exist, there was no estoppel.

Now, it must be conceded that this court and the Court of Appeals of the District of Columbia have gone further in applying these doctrines to questions comparable to the one at bar than have the courts in any other jurisdiction. It has been held in substance that if one's application has been in an interference with another and he fails to bring forward an assertion of priority of claims therein, he is estopped in his ex parte prosecution from claiming that invention, even though all the elements of the true doctrine of equitable estoppel or estoppel by reason of res judicata are not present. Moreover, in *In re Brasheres*, 22 C. C. P. A. (Patents) 873, 74 F.(2d) 751, 455 O. G. 264, it was held that a party to an interference was not only required to bring forward other claims of the application actually in interference, but any other claims in any other application which he might own, and we may say further that this court has gone so far as to hold that he will be estopped unless he brings forward the claims of an application not in the interference even though all the parties to that interference cannot make the counts and even though it be necessary to set aside an issue for another interference between the parties who can make the counts. This misnamed estoppel is based upon the premise that the party did not comply with rule 109. This is not only the holding of some of the decisions of this court but of some of the decisions of the Court of Appeals of the District of Columbia, our predecessor in this jurisdiction. The doctrines announced in these cases obviously are not based either upon res judicata or estoppel by reason of inequitable conduct. Res judicata has been applied where there was no identity either of the parties or issues and also where there was no finality of judgment, as well as in cases where it was impossible to have adjudicated the particular issue involved. The so-called equitable principle has also been applied in cases where there were no such facts as to make the well-known equitable doctrine applicable. Outside of the holding in these decisions, there is no warrant in law for denying the first inventor a patent because he has not taken advantage of an opportunity offered by a Patent Office rule.

At the time *Blackford* v. *Wilder*, supra, was decided, there was no rule in the Patent Office which entitled an applicant to bring forward all his claims in an application and submit them in a priority contest. Recognizing the force and importance of that decision, based squarely upon the settled doctrine of res judicata, the Patent Office adopted a rule—109—which said in substance that an applicant in an interference proceeding may by motion bring forward claims. This, of course, meant claims in the application involved. Later (July, 1927), the rule was amended, stating that the party may substitute any other application owned by him. It was then only a short step until the Patent Office began holding that the applicant was estopped from obtaining his claims if he did not bring them forward under the permission granted by the rule, even though the case lacked the elements necessary for either the doctrine of estoppel based upon res judicata or inequitable conduct. This was more than a distinct extension of the doctrine. It was, as I am being forced to conclude, the creation of a bar to the obtaining of a patent, which was neither warranted under the statute nor sanctioned by the settled principles of law. From this quickly developed practice there was started a line of holdings which are now being followed and extended to such a degree as to call for a reinvestigation of the whole question by everyone interested in patent jurisprudence.

For reasons which will presently appear, rule 116 of the Patent Office was amended in 1934.

In *White et al.* v. *Ovaitt*, 1923 C. D. 18, 308 O. G. 449, the Commissioner of Patents had held that the senior party in an interference, which had been dissolved without an award of priority, was barred from thereafter asserting broader claims by reason of his failure to comply with rule 109. *In re Capen*, 43 App. D. C. 342, 214 O. G. 685, was relied upon for supporting authority. This court in *In re Alexanderson*, 21 C. C. P. A. (Patents) 983, 69 F.(2d) 541, 446 O. G. 501, in a case where the interference had been dissolved before there was a final award of priority, had held that the senior party was estopped from claiming that which he could have sought to obtain in the interference in which he was engaged.

In October, 1934, in a report of the Patent Advisory Committee to the Secretary of Commerce, supra, attention was called to this situation in the following language:

> The situation thus developed in the practice may lead into a dilemma.
>
> (1) To deny a party participation in an interference when he fails or refuses to assert or reveal his claim within the times provided, and where his activities constitute a bar to another, may result in an award of priority in favor of an issuance of a patent to one who is not the first inventor and who is not entitled to the patent.
>
> (2) To admit to participation in an interference a party who is barred (by his own laches or failure to comply with orderly procedure) from receiving the patent is to give a pure right of opposition, i. e., a right of opposition not coupled with a claim, and that is not sanctioned by law.
>
> While it would appear that the proper administration of the law requires strict compliance of a party with the regulations requiring him to assert or reveal his claim within the time prescribed or permitted by the practice—otherwise the practice degenerates into chaos—nevertheless it would appear that invariable forfeiture of rights, regardless of circumstances, is an exceedingly severe application of the doctrine not consistent with the doctrines of equity upon which it rests. It is believed that a treatment of each case upon its own facts by or under the authority of the Commissioner of Patents will evolve a proper procedure mitigating the severity of the practice as heretofore adopted and avoiding the dilemma above pointed out, which procedure may, when evolved, be cast into the form of a rule.
>
> Your committee, after long and intensive consideration of the matter, has therefore arrived at the following conclusions:—
>
> (1) That in general, where a party is tardy in asserting an interfering claim to subject-matter or to dates, the particular facts should be considered in determining whether and to what extent the party is under default so that the doctrine of estoppel should be applied. However, having regard to the numerous factual variations which may be encountered, it is questionable whether a rule of universal application can be safely laid down. Therefore, the members of the committee, although being in general accord as to the principles which should govern, are making no recommendation as to this branch of the problem, in the absence of a solution that they feel to be entirely satisfactory.
>
> (2) That in the particular case where an interference is terminated by dissolution without an award of priority a rule limiting the application of the doctrine of estoppel may properly be made.
>
> Accordingly, your committee has already recommended and received your approval of a revision of rule 116, and rule 116 as so revised went into effect August 21 of this year [1934]. With regard to estoppels arising out of cases in other categories, your committee is not prepared to make final recommendations but still has the matter under consideration.

The new matter added to rule 116 reads as follows:

> 116. • • •
>
> The termination of the interference by dissolution under rule 122 without an award of priority shall not disturb this presumption, and a party enjoying the status of a senior party with respect to any subject-matter of his application shall not be deprived of any claim to such subject-matter solely on the ground that such claim was not added to the interference by amendment under rule 109.

Now, at last we have a situation wherein the Patent Office by rule decides under what circumstances estoppel will be applied. It makes no difference what the courts think about the inequitable conduct of the party or whether or not the necessary elements exist which make the doctrine apply. The Patent Office in order to get away from a fast-growing intolerable situation has been persuaded to assert by rule that under at least one statement of facts there will be no estoppel applied. It is now suggested by the majority that rule 109 might be amended so as to make the decisions of the courts harmonize. I take this to mean that if the Patent Office wants to further get away from certain undesired results from the application of the doctrine of estoppel by virtue of failure to act under rule 109, the said rule 109 may be so changed as to modify the requirement with reference to copying claims. This subject matter prompts the observation that if the action of the Patent Office in the adoption of rule 116 constitutes a valid and effective rule, the adoption of further rules along this line would accomplish the same purpose without destroying the desired effectiveness of rule 109 to accomplish the purposes for which it was originally intended.

It is the view of the majority in that in the instant case Chase, having failed to bring forward certain claims of an application not in the original seven-party interference, and irrespective of the showing that he clearly was the first inventor, and irrespective of the fact that Avery admits he is not the first inventor and in any event could not have a valid patent for the subject matter of the interference counts here involved, Chase should be estopped, not because of the doctrine of res judicata, because it is obvious that it does not apply, and not because of the application of the strict doctrine of equitable estoppel, because clearly Avery has shown no damage, admits that he cannot have the patent and that Chase is the first inventor, but for the reason that Chase has failed to comply with rule 109. Just here, let it be observed that the Patent Office has made no rule which states that in the ex parte prosecution of a patent application a party will be denied claims upon the ground of estoppel if he did not take advantage of the opportunity extended by rule 109 and bring these claims forward in a prior interference. If the Patent Office has the lawful right to determine one's rights under the doctrine of estoppel by the adoption of rule 116, it also has the perfect right to adopt and promulgate a rule which would inform inventors that if they did not bring their claims forward as they are permitted to by rule 109, they will be estopped when claiming the invention in an ex parte proceeding.

In *Severson* v. *Olsen*, 20 C. C. P. A. (Patents) 946, 64 F.(2d) 694, 434 O. G. 253, and elsewhere, this court said that it would not extend the doctrine of equitable estoppel or the doctrine akin to equitable estoppel which has many times been announced (first in *Mason* v. *Hepburn*, 13 App. D. C. 86, 84 O. G. 147), and I think the courts, and especially this court have very carefully guarded against its extension. The application of the doctrine denies the right of the first inventor to claim that which he has invented. It is based squarely upon equitable considerations. It seems to me that there are more persuasive reasons for calling a halt to the unwarranted and unusual extension of the so-called doctrine of estoppel when applied by reason of rule 109 than there was for refusing to extend the *Mason* v. *Hepburn* doctrine. It seems to me that the particular facts at bar suggest the necessity of halting the unwarranted extension of the doctrine at this point.

The facts in the case at bar are unlike the facts in any case in the books anywhere. We pointed this fact out in the ex parte decision. Some of the parties in the seven-party interference could not make the counts. The particular issue between the appellant and the appellee at bar could not have been adjudicated in that interference. Another interference would have had to be declared. Unless the doctrine of estoppel based upon res judicata is greatly extended (and I fear that it has been) it could have no application to this kind of case. In the ex parte Chase case, however, we alluded to this fact together with the additional fact that the application involved in the seven-party interference was not the application which the appellant is charged with not bringing forward. Moreover, we there called attention to the fact that while the seven-party interference was still going on and while it was still possible for Chase, upon a proper showing, to have the second application moved into the interference, the Primary Examiner, while exercising his discretionary power, and for reasons which evidently appeared satisfactory to him, set up the second interference and caused the claims to be copied without requiring any showing or motion. Appellee was so clearly the first inventor that no contest of priority was had at that time or in the same redeclared interference which is now before us. It was the Examiner of Interferences who applied the doctrine of estoppel.

After careful consideration, this court, in *In re Brasheres*, supra, where estoppel was applied, pointed out that the facts in that case were not

analogous to those which existed in the ex parte Chase case.

So, we have a case here where the combined facts are so very different from those in any other case in the books that if it is the desire not to extend the doctrine, every other case can be distinguished. The language of Mr. Justice Cardozo, although addressed to a different question, in *Norwegian Nitrogen Products Co.* v. *United States*, 288 U. S. 294, would seem to aptly apply—

"The tokens of intention set down in this opinion have a force in combination that is denied to any one of them alone."

Let it be remembered that while the motion period had passed, it was still within the discretion of the Patent Office to open up the case, upon a proper showing, and permit a trial of priority on the particular issue between the appellant and the appellee.

The majority opinion states that the Primary Examiner had no right to declare the second interference because when he did he knew that Chase would not be allowed the claims by reason of the fact that he was estopped. Estopped upon what theory? Not because he was trying to avoid a contest of priority. The inventions were so dissimilar in the two applications that the Primary Examiner believed that a separate interference was necessary and declared it. Chase, admittedly the first inventor, came forward in response to the Patent Office request and apparently satisfied everyone concerned that he was the first inventor in fact. What is there about his conduct that is unfair, that is inequitable? Has he attempted to evade a priority contest in claims that he would have lost? Not at all.

Appellant takes the position in this case that a holding with him that Chase is estopped is not an extension of the doctrine; or at least he argues, in effect, that if it be an extension it is such an extension as is the natural outgrowth of the doctrine and the logical development of it. Right there lies the difficulty with the whole situation. By somewhat plausible argument it is easy to continue to stretch and extend the doctrine until it ceases to remotely resemble the one originally adopted. This fact, I think, I have clearly hereinbefore shown. If this court is of the opinion that it should not extend the doctrine, being an unpopular one, although admittedly a meritorious one in proper cases, it should refuse to extend it to facts not found in the prior decided cases and especially it should do so when those facts are such as to make the application of the doctrine when resting upon res adjudicata or strictly equitable principles inappropriate. The majority states, and they find precedent therefor in our decisions, that the so-called estoppel applied to Chase has its origin in his failure to comply with rule 109. To my way of thinking, Chase has violated no Patent Office rule. He could have brought forward, under the permissive rule of the Patent Office, these claims at a place and time when he could not have had the issue adjudicated. It might have resulted in the declaration of a new interference. This is exactly the thing that was done. Even if it be conceded that he has violated rule 109 there is no mandate in it requiring a denial of a patent.

Let us for a moment look at this court's decision in *In re Long*, 23 C. C. P. A. (Patents) 1078, 83 F.(2d) 458, 470 O. G. 939. Long, during the pendency of his application, was claiming the invention of the interference, and he had claims standing allowed for this invention. The Examiner denied the claims in Long's ex parte prosecution on the ground of estoppel for the reason that he had not presented for priority contest claims broader than those he had lost in the interference. The estoppel was stated to rest upon the proposition that the losing party in an interference proceeding ordinarily cannot be awarded claims broader than those which were awarded to the successful party. The application involved in the interference was not involved in the original interference. We held that the invention involved in the original three-party interference was an improvement on the broad invention disclosed and claimed in the application in the interference in which he was estopped. It was apparent that the claims were not patentable to the winner Evans or the loser Day. We took the position that the estoppel, if there was one, did not operate in favor of the party claiming it and reversed the Board's decision. What about the instant case? When Avery concedes that he could not have a valid patent and is therefore not damaged, how can he invoke an equitable estoppel against Chase? In the Long case, supra, we said:

In this court, the Solicitor for the Patent Office contends that, regardless of whether or not the basis for an equitable estoppel exists, it is the settled law that unless appellant, under rule 109, moved to add to the interference claims to the broad subject matter now claimed, the same being broader than the issue of the interference he is not now entitled to their allowance in the instant application, and relies largely upon *In re Rhodes*, 23 C. C. P. A. (Patents) 816, 80 F.(2d) 525. The Solicitor points out certain distinctions which exist between the instant case and the Rhodes case, but contends that the distinctions are not material and that the holding of the Board that appellant was not entitled to the claims for the reasons by it stated is abundantly supported by the authorities.

We know of no case on all fours with the case at bar either in the facts or the principles involved. It would be needless to cite authority for the proposition that in the Patent Office there has been a gradual extension of the so-called doctrine of estoppel. In some of its phases it has been approved by the courts, and in others the application of the doctrine has been rejected. It is well settled, however, that if a party to an interference fails to submit subject matter claimed in the application involved or in other applications belonging to him for a contest of priority where such subject matter is claimed by his adversary or adversaries, he is afterwards barred from obtaining claims not so submitted or claims broader than the issue of the interference. It furthermore has been held that it is not only his duty to bring forward such subject matter when the matter is claimed by his adversary, but that it is also his duty to do so when such subject matter is clearly disclosed by his adversary and not claimed. The latter was our holding, in approving the action of the Patent Office, in *In re Rhodes*, supra.

We know of no case, however, where a party losing narrow claims in an interference has been denied broad claims because he failed to present the same in an interference where the subject matter was not patentable to any one of the other parties, and where they, in claiming an improvement over the broad invention either disclaimed the broad invention or by their conduct clearly conceded that in any event they could not be regarded as its first inventor.

In about a dozen cases this court has had occasion to review the decision of the Board of Appeals with reference to its application or failure to apply the doctrine of estoppel arising out of an alleged lack of compliance with the provisions of rule 109. We have reversed the Board but twice where it applied the doctrine—*In re Long*, supra, and *In re Chase*, supra. If the Chase case was decided wrong, the Long case must not be pointed to as the law. The holdings of this court will, therefore, all be one way as far as results are concerned. Since the doctrine in the instant case has been by the majority extended to facts wholly different from those in any other case, it is not seen how it can be logically contended that the doctrine is not being extended to such a degree that the situation is, to say the least, becoming somewhat alarming. It seems to me that it is obvious that our decisions on this question are not in harmony with each other and, with all due deference to the views of the majority, it would seem to be the part of wisdom to overrule other decisions of this court rather than the only ones which have promised any relief from the growing intolerable conditions.

I deem it proper to make reference to another important and interesting matter. The United States Court of Appeals for the District of Columbia, our predecessor in our present patent jurisdiction, now exercises appellate jurisdiction under section 4915 of the Revised Statutes. It is called upon to consider the same subject matter as we are herewith concerned. In *International Cellucotton Products Co.* v. *Coe*, 66 App. D. C. 248, 85 F.(2d) 869, 471 O. G. 243, the court seems to have gone back squarely to the principle of res judicata in making application of the doctrine of estoppel for failure to present claims in an interference proceeding. Whether the court in the later case of *E. I. du Pont de Nemours & Co.* v. *Coe*, 67 App. D. C. 42, 89 F.(2d) 679, 476 O. G. 243, which did not cite the International Cellucotton Products Co. case, supra, was a reconsideration of the whole matter, I have no way of knowing. In the Du Pont case, however, there was nothing to indicate that the whole matter was given renewed consideration or that the holding in the International Cellucotton Products Co. case was considered or disapproved.

For reasons stated in the ex parte Chase case, supra, which will be summarized more in detail here, I am convinced that this court is wholly unjustified in reversing the decision of the Board of Appeals which in this proceeding followed our holding in the ex parte Chase case and declined to apply the doctrine of estoppel. Those reasons may be summarized as follows:

First. Chase is unquestionably the first inventor.

Second. It is conceded that the involved counts would not be valid in a patent issued to Avery. He has, therefore, not been harmed.

Third. The subject matter of this interference is a different invention from that disclosed in Chase's application in the first interference and the issue could not have been adjudicated in that interference.

Fourth. A second interference was properly declared by the Primary Examiner. Both parties were offered their day in court and Chase, when called upon, entered the contest and easily showed priority. He therefore is not in the inequitable position of attempting to evade a priority contest and later attempting to claim that which he otherwise would have lost.

Fifth. There having been no adjudication of the issue either actually or presumptively in the first interference and none of the elements of equitable estoppel being present, there is no warrant in law for interposing estoppel as a bar against appellee's obtaining a patent.

I cannot agree with the majority that there is any basis for estoppel after the Primary Examiner in the exercise of his discretion had set up the second interference.

GARRETT, *P. J.*, concurs in the foregoing dissenting opinion.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,373,748, N. M. Lower, Screw conveyer; 1,690,116, A. M. Hunt, Stoker construction; 1,724,593, A. M. Hunt, Stoker conveyer; 1,455,058, N. M. Lower, Locomotive stoker; 1,642,076, N. M. Lower et al., Distributor tube for stokers, appeal filed Apr. 17, 1939, C. C. A., 4th Cir., Doc. 4477, *Standard Stoker Co., Inc.*, v. *Berkley Machine Works and Foundry Co., Inc.*

1,455,058. (See 1,373,748.)

1,455,887, O. B. Salisbury, Shoe, filed Apr. 17, 1939, D. C., E. D. N. Y., Doc. Civ.–334, *O. B. Salisbury* v. *Pediforme Shoe Co., Inc.*

1,466,664, H. Lowe, Test indicator, D. C., N. D. Ohio, E. Div., Doc. 19,697, *L. S. Starrett Co.* v. *W. H. Ferris et al.* Patent held valid and infringed, injunction Apr. 14, 1939.

1,477,096. (See 1,893,608.)

1,481,962, J. W. Irvin, Valve-in-head motor, filed Jan. 6, 1939, D. C. Conn., Doc. 77–Civ., *J. W. Irvin* v. *Cooley Chevrolet Co.*

1,484,523, 1,699,076, B. J. Mumm et al., Sausage casing and process of producing the same; 1,837,280, B. J. Mumm, Sausage casing and process of producing the same, filed Apr. 11, 1939, D. C., N. D. Iowa, E. Div., Doc. 9–Civ., *B. J. Mumm* v. *Rath Packing Co.*

1,507,016, L. De Forest, Radiosignaling system; 1,507,017, same, Wireless telegraph and telephone system, D. C., S. D. Calif., C. Div., Doc. Eq.–1332–RJ, *Western Electric Co., Inc., et al.* v. *Bristow & Co. et al.* Consent decree holding patents valid and infringed Feb. 28, 1938. Doc. 141 C. Civ., *Western Electric Co., Inc., et al.* v. *Alexander Hirsch (Radio Television Supply Co.)*. Decree in favor of plaintiffs, injunction Apr. 7, 1939.

1,507,017. (See 1,507,016.)

1,565,321, W. A. Frantz, Electric connection; 1,611,014, same, Cord terminal, filed Apr. 12, 1939, D. C. Conn., Doc. 118–Civ., *W. A. Frantz et al.* v. *Whitney Blake Co.*

1,611,014. (See 1,565,321.)

1,617,240, R. A. Fessenden, Methods for wireless directive signaling; 1,617,242, same, Wireless transmission and reception, C. C. A., 3d Cir., Doc. 6850, *H. M. Fessenden* v. *R. C. A.* Lower court affirmed Apr. 13, 1939.

1,617,242. (See 1,617,240.) 1,642,076. (See 1,373,748.)

1,690,116. (See 1,373,748.) 1,699,076. (See 1,484,523.)

1,720,255, C. A. Adams, Roller for gravity carriers; 1,876,534, same, Bearing adapter; 2,023,718, same, Antifriction bearing; 2,077,188, H. M. Rishel, Roller conveyer,

filed Apr. 3, 1939, D. C., E. D. Mich., S. Div., Doc. 927, *Mathews Conveyer Co.* v. *Palmer-Bee Co.*

1,724,593. (See 1,373,748.)

1,754,959, D. F. Matushenko, Bracelet lock, filed Apr. 17, 1939, D. C., E. D. N. Y., Doc. Civ.–333, *P. J. Drakoff* v. *Morays Manufacturing Co., Inc., et al.*

1,837,280. (See 1,484,523.) 1,876,534. (See 1,720,255.)

1,892,892, M. F. Jamar, Jr., Artificial minnow; Des. 93,370, L. J. Wooster, Design for a fish bait body, filed Apr. 10, 1939, D. C., E. D. Mich., S. Div., Doc. 966, *James Heddon's Sons* v. *Millsite Steel & Wire Works, Inc.*

1,893,608, F. C. Atwood, Casein solution and method of making the same; 1,477,096, W. B. Allen, Interior-wall finish; Re. 16,175, W. B. Allen, Interior-wall finish, filed Apr. 12, 1939, D. C., E. D. N. Y., Doc. Civ.–326, *Atlantic Research Associates, Inc.*, v. *L. F. Cassoff et al.*

1,945,358, C. G. Raible, Method of forming chaplets and the like, C. C. A., 6th Cir., Doc. 7795, *Fanner Manufacturing Co.* v. *Angell Nail & Chaplet Co.* Decree affirmed Apr. 13, 1939.

1,955,306, L. Malmstead, Foundation garment, C. C. A., 2d Cir., Doc. —, *L. Malmstead* v. *Warner Brothers Co.* Decree affirmed. (Notice Jan. 13, 1939.)

1,972,512, J. A. Devendor et al., Button, appeal filed Apr. 15, 1939, C. C. A., 2d Cir., Doc. —, *J. A. Devendor et al.* v. *C & C Button & Trimming Co., Inc.*

2,023,718. (See 1,720,255.)

2,051,322, J. Weisbaum, Necktie, D. C., S. D. Ohio, W. Div., Doc. 445–Eq., *J. Weisbaum* v. *Glenn C. Strock et al.* (*Strock & Landry*). Dismissed Apr. 7, 1939.

2,077,188. (See 1,720,255.)

2,095,223, A. O. Samuels, Fan, C. C. A., 2d Cir., Doc. —, *Samson-United Corp.* v. *Sears, Roebuck & Co., Inc.* Decree reversed. (Notice Dec. 16, 1938.)

2,107,216, H. L. Rogers, Receptacle and closure therefor, D. C., S. D. N. Y., Doc. Civ. 2–412, *Rogers Imports, Inc., et al.* v. *Excel Merchandise Co., Inc.* Stipulation withdrawing action without prejudice. (Notice Feb. 24, 1939.)

2,110,385. (See 2,143,677.)

2,115,495, H. H. Mapelsden, Bushing, filed Apr. 12, 1939, D. C. Conn., Doc. 119–Civ., *General Electric Co.* v. *Whitney Blake Co.*

2,130,372, T. T. Tucker, Method of and apparatus for insulating buildings, filed Apr. 15, 1939, D. C., N. D. Ga. (Atlanta), Doc. 2145, *T. T. Tucker* v. *Atlanta Flour & Grain Co. et al.*

2,143,677 (*a*), R. H. Bradwell, Tufting machine; 2,143,678, 2,143,679, R. E. Baggett et al., Tufting machine; filed Mar. 30, 1939, D. C., N. D. Ga. (Rome), Doc. 293, *Polly Prentiss, Inc., et al.* v. *Novelty Mills of Georgia, Inc., et al.* Doc. 294, *Polly Prentiss, Inc., et al.* v. *Home Craft Spread Co. et al.* Doc. 295, *Polly Prentiss, Inc., et al.* v. *Princely Spread Corp.*

2,143,677 (*b*), see (*a*); 2,143,678, 2,143,679, see (*a*); 2,110,385, M. A. White, Tufting machine, filed Mar. 30, 1939, D. C., N. D. Ga. (Rome), Doc. 292–Civ., *Polly Prentiss, Inc., et al.* v. *Walter E. Dellinger* (*Dellinger Spread Co.*) *et al.*

2,143,678. (See 2,143,677.) 2,143,679. (See 2,143,677.)

2,149,777, C. Kidwell, Anatomical injector and aspirator, filed Apr. 13, 1939, D. C., E. D. Mo., Doc. 197, *C. Kidwell et al.* (*K-Z Co.*) v. *R. H. Tontrup.*

Re. 16,175. (See 1,893,608.)

Re. 18,841 (of 1,622,957), J. Mayer, Hair waving method, D. C., E. D. Mich., Doc. 8348, *Philad Co.* v. *Velva Wave-in-Oil Co., Inc., et al.* Dismissed Apr. 3, 1939.

Des. 93,370. (See 1,892,892.)

Des. 113,634, J. H. Leff, Brooch or similar article, filed Apr. 11, 1939, D. C., S. D. N. Y., Doc. Civ. 3–234, *Du-Jay Inc.* v. *Frederick Brooks et al.* (*Brooks & Co.*)

Adjudicated Patents

(D. C. N. Y.) Keller patent, No. 1,489,833, for method of operating upon printed webs, claims 5 to 8, and 14 to 25 *Held* invalid. *Keller* v. *American Sales Book Co.*, 26 F. Supp. 835.

(C. C. A. N. Y.) Stranahan patent, No. 1,713,242, for steering-gear check, claims 1, 2, and 3 *Held* valid and infringed. *General Motors Corporation* v. *Apollo Magneto Corporation*, 102 F.(2d) 455.

(C. C. A. Calif.) Parker patent, No. 1,875,259, for apparatus for wire binding boxes, claims 43, 44, 45, 46, 47, 48, 49, 52, 55, 60, 67, 75, and 76 *Held* valid but not infringed. *Wire Tie Mach. Co.* v. *Pacific Box Corporation*, 102 F.(2d) 543.

(C. C. A. Calif.) Parker patent, No. 1,875,260, for bundle binding and tying machine, claim 69 *Held* valid and infringed. *Id.*

(D. C. Ind.) Staude reissue patent, No. 15,906, for automatic break control for power-propelled vehicles, claim 2 *Held* not infringed. *Staude* v. *Bendix Products Corporation*, 26 F. Supp. 901.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 23, 1939

[VOL. 502. NO. 4]

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 417,135. JOHN T. OPIE, doing busines as Opie Sponge Company, Kansas City, Mo. Filed Mar. 16, 1939.



For Chamois Skins and Sponges.
Claims use since Jan. 1, 1927.

Ser. No. 417,151. VERMONT MARBLE COMPANY, Proctor, Vt. Filed Mar. 16, 1939.



For Marble Provided with a Water-Proof Finish.
Claims use since Mar. 6, 1939.

Ser. No. 417,608. FLORIDIN COMPANY, Warren, Pa. Filed Mar. 29, 1939.

FLO-BRITE

For Agent Prepared from Natural Earth and Useful for the Decolorizing or Reclaiming of Oils or Cleaning Solvents.
Claims use since Mar. 21, 1939.

Ser. No. 417,693. INTERMOUNTAIN SEED & FUEL COMPANY, Twin Falls and Nampa, Idaho. Filed Mar. 31, 1939.



For Field Seeds, Grass Seeds, Vetch Seeds, Seed Peas, Seed Beans, and Seed Popcorn.
Claims use since 1933.

CLASS 2

Receptacles

Ser. No. 403,954. MODERN PAC, INC., Eau Claire, Mich. Filed Mar. 11, 1938.

MODERN PAC

For Boxes, Paper Containers, Crates, and Baskets.
Claims use since Aug. 27, 1937.

Ser. No. 416,598. BENJ C. BETNER CO., Devon, Pa. Filed Mar. 2, 1939.

Lacote
THE MOISTUREPROOF LACQUER COATED COFFEE BAG

No claim is made to the words "The Moisture-proof Lacquer Coated Coffee Bag" apart from the mark.
For Paper Bags.
Claims use since Feb. 15, 1939.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 412,507. SEBASTIAN S. KRESGE, doing business as Kresge Department Store, Newark, Newark, N. J. Filed Nov. 8, 1938.

Minute Modes

The word "Modes" is disclaimed apart from the mark.
For Hand Bags, Portfolios, Brief Cases, Pocket Books, Trunks, and Hand Luggage.
Claims use since Aug. 10, 1938.

Ser. No. 414,597. FA-CILE FASTENER CORPORATION, New York, N. Y. Filed Jan. 7, 1939.

Fa-cile Fastener

Applicant disclaims the word "Fastener" except in combination with the word "Fa-Cile".
For Bag Fasteners.
Claims use since Nov. 10, 1938.

Ser. No. 416,560. HERMES, S. A., Paris, France. Filed Mar. 1, 1939.

HERMES

For Trunks, Travelling Bags, Dressing Cases, Suit Cases, Brief Cases, Sample Bags, Portfolios, Wallets, Satchels, Pocket-Books, and Horse and Dog Collars, and Harness.
Claims use since December, 1936.

Ser. No. 417,245. MORRIS WHITE MFG. CO., INC., New York, N. Y. Filed Mar. 18, 1939.

GLAMOUR

For Handbags.
Claims use since Mar. 1, 1939.

Ser. No. 417,316. NICHOLAS H. WAGNER, JR., Media, Pa. Filed Mar. 20, 1939.

SERGEANT JOE

For Leather Horse Boots Having an Inner Layer of Protective Felt.
Claims use since Mar. 15, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 391,396. PURITAN SOAP COMPANY, Rochester, N. Y., assignor to Puritan Soap Company, Inc., Rochester, N. Y., a corporation of New York. Filed Apr. 15, 1937.

"THE LAST WORD IN AUTO WAX" P.S. PURITAN SOAP COMPANY

The phrase "The Last Word in Auto Wax" is disclaimed apart from the mark.
For Top Finish or Dressing for Automobiles.
Claims use since Jan. 30, 1935.

Ser. No. 408,170. SHULTON, INC., New York, N. Y. Filed July 2, 1938.

EARLY AMERICAN Old Spice

The words "American" and "Spice" are disclaimed apart from the mark.
For Saponaceous Compounds for Cleaning the Hands, Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing and Cleaning Purposes; Laundry Soaps; Soap Flakes; Hand Soaps; Toilet Soaps; Soap Pastes; Washing Tablets; Bath Soap Tablets, and Shampoo Soaps.
Claims use since Apr. 2, 1937.

Ser. No. 412,069. EDWARD H. HEIL, Cleveland, Ohio. Filed Oct. 26, 1938.

RETTO

For Preparation for Cleansing False Teeth without Brushing.
Claims use since Oct. 1, 1938.

Ser. No. 415,596. E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Feb. 4, 1939.

SURFAX

For Chemical Compounds for Use as Cleansing and Washing Compositions in Liquid and Solid Form for Use in Aqueous Baths for Cleaning Fabrics.
Claims use since May 16, 1938.

Ser. No. 416,549. THE DIVERSEY CORPORATION, Chicago, Ill. Filed Mar. 1, 1939.

DICOLOID

For Cleanser in Powdered Form Having Incidental Water-Softening Properties, for Cleaning Receptacles and Containers.
Claims use since Jan. 11, 1939.

Ser. No. 416,661. SUPREME OLIVE OIL CORPORATION, San Fernando, Calif. Filed Mar. 3, 1939.

Benedetto

For Soaps—Namely, Toilet Soap, Medicated Soap, Liquid Soap, and Soap Chips.
Claims use since Feb. 24, 1939.

CLASS 5

Adhesives

Ser. No. 417,291. MCLAURIN-JONES CO., Brookfield, Mass. Filed Mar. 20, 1939.

PYROTAK

For Gummed Fabric and Gummed Fabric Tape.
Claims use since June 30, 1938.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 386,699. JANE SEYMOUR LIMITED, London, England. Filed Dec. 12, 1936.

JANE SEYMOUR

For Astringent Lotions, Acne Lotions, Anti-Weather Creams, Anti-Wrinkle Creams, Blackhead Paints, Bleaching Creams, Bronzing Lotions, Cleansing Creams, Cleansing Milks, Complexion Milks, Cuticle Creams, Cuticle Oils, Cuticle Removers, Eye Drops, Eye Lash Growers, Eye Lotions, Foundation Creams, Hand Lotions, Hand Packs, Hormone Creams, Juniper Skin Tonics, Muscle Oils, Nail Varnishes, Nail Varnish Removers, Petal Dusting Powders, Petal Lotions, Petal Creams, Pore Creams, Face Powders, Reducing Creams, Rejuvenating Masks, Rouge Powders, Special Protective Creams, Stimulating Creams, Sunbalm Lotions, Sun Tan Oils, Vitamin Creams, Wax Depilatories, Eau de Cologne.
Claims use since May 17, 1933.

Ser. No. 400,582. MOKOTOWSKA FABRYKA CHEMICZNO-FARMACEUTYCZNA ADOLF GASECKI I SYNOWIE SPOLKA AKCYJNA, Warsaw, Poland. Filed Dec. 7, 1937.



For Powders for Headaches, Migraine, Neuralgia, Colds, Influenza, Arthritic Ailments, and Toothache.
Claims use since November, 1934.

Ser. No. 400,937. WILLIAM SIEGEL, doing business as Williams Specialty Co., New York, N. Y. Filed Dec. 16, 1937.

CREO CHESTIN

For Capsules of Cod Liver Oil and Creosote.
Claims use since Mar. 14, 1910.

Ser. No. 405,754. CHASE & PICKENPAUGH, Long Beach, Calif. Filed Apr. 27, 1938.



No claim is made to the words "Hair Oil" apart from the mark.
For Hair Oil.
Claims use since Dec. 15, 1937.

Ser. No. 407,122. AVALON PHARMACY, New York, N. Y. Filed June 6, 1938.

MD

For Medicines for the Relief of Pain and Discomfort of Headache, Neuralgia, Headcold, Certain Types of Rheumatism, Neuritis, Tooth Extraction, and Other Dental Work, Functional Menstrual Disturbance and Nervousness.
Claims use since May 15, 1938.

Ser. No. 410,742. LUCIEN LELONG, INC., Chicago, Ill. Filed Sept. 19, 1938.

Les Plumes

For Perfumes.
Claims use since Sept. 6, 1938.

Ser. No. 412,414. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y. Filed Nov. 5, 1938.



No claim is made to the following matter per se—namely, the outline of the carton, the outline of the label, the term "Marca Registrada" and the term "Reg. U. S. Pat. Off.", and no claim is made apart from the mark shown to the following matter, namely, "Para Embellecer el Cutis", "A Complexion Beautifier", "Crema", and "New York". The colors blue, pink, and white are claimed as features of the mark.
For Toilet Creams.
Claims use since Dec. 3, 1937.

Ser. No. 412,821. MARELLE, INC., Jersey City, N. J. Filed Nov. 16, 1938.

My Royal Lady

For Bath Oils.
Claims use since Nov. 3, 1938.

Ser. No. 415,003. KATHERENE T. JONES, Baltimore, Md. Filed Jan. 19, 1939.



Applicant disclaims the words "Medicated Powder", and "Prescription R4–11" as part of the mark. The package per se as such is disclaimed.
For Preparations Used Specifically for Acne, Sunburn, Cuts, Burns, Eczema, Athlete's Foot, Psoriasis, Shingles, Poison Ivy, for the Toilet and for Use After Shaving and as a Deodorant Powder.
Claims use since Oct. 16, 1938.

Ser. No. 415,040. THE HYNE COMPANY, doing business as Peranol Products, Chicago, Ill. Filed Jan. 20, 1939.

PERANOL

For Nasal Emollients and Nasal Douches.
Claims use since Jan. 1, 1937.

Ser. No. 415,417. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 30, 1939.

Satinette

For Hand Cream, Almond Lotion, All Purpose Cream, and Face Powder.
Claims use on hand cream, since June 19, 1937; on all purpose cream, since Aug. 3, 1938; on almond lotion, since June 19, 1937; and on face powder, since Aug. 11, 1938.

Ser. No. 415,628. LOUIS S. BELLEAU, doing business as Belleau Drug Store, Green Bay, Wis. Filed Feb. 6, 1939.

FANG

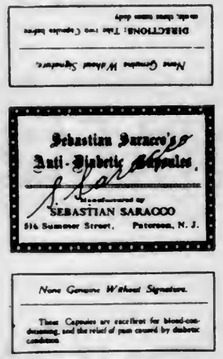
For Liniment for Rheumatism, Sprains, Bruises, Lameness, Congestion in Colds, and the Like.
Claims use since June 5, 1930.

Ser. No. 415,847. W. W. MACGRUDER, Denver, Colo. Filed Feb. 9, 1939.

KLOVA

For Gum Massaging Preparation.
Claims use since Nov. 6, 1938.

Ser. No. 415,863. SEBASTIAN SARACCO, doing business as Sebastian Saracco's Anti-Diabetic Capsules, Paterson, N. J. Filed Feb. 9, 1939.



The signature is that of the applicant. All wording except the facsimile signature, S. Saracco, is disclaimed apart from the association shown.
For Anti-Diabetic Capsules.
Claims use since Jan. 2, 1939.

Ser. No. 416,003. UNITED TOILET GOODS CORP., New York, N. Y. Filed Feb. 13, 1939.

18TH CENTURY

For Toilet Water, Sachet, Bath Powder, Water Softener, Compressed Sachet, Pot Pourri, Perfume, Talcum Powder, and a Sachet Compact.
Claims use since Feb. 7, 1939.

Ser. No. 416,062. ELMER J. FREISCHLAG, Buffalo, N. Y. Filed Feb. 15, 1939.

PEP-O-MAG

For Medicine for Internal Use as an Alkalizer and Aid to Digestion.
Claims use since Jan. 18, 1939.

Ser. No. 416,170. YOUNGS RUBBER CORPORATION, INC., New York, N. Y. Filed Feb. 17, 1939.

FOR THE PREVENTION NU-VENOL OF VENEREAL DISEASE

The words "For the Prevention of Venereal Disease" are disclaimed.
For Prophylactic Ointment for the Prevention of Venereal Disease.
Claims use since Feb. 1, 1938.

Ser. No. 416,306. AYERST, MCKENNA & HARRISON (UNITED STATES), LIMITED, Rouses Point, N. Y. Filed Feb. 23, 1939.

COMPRILL

For Medicinal Vitamin Preparation.
Claims use since Jan. 6, 1939.

Ser. No. 416,708. THE STANDARD LIME AND STONE COMPANY, Baltimore, Md. Filed Mar. 4, 1939.

STAFLUX

For Flux for Metallurgical Operations.
Claims use since Oct. 18, 1935.

Ser. No. 416,821. VI-JON LABORATORIES, INC., St. Louis, Mo. Filed Mar. 8, 1939.

STA-BAC

For Hair Dressing Preparations—Namely, Liquid Brilliantine, and Curl Setting Liquid.
Claims use since Apr. 15, 1921.

Ser. No. 416,930. ARTHUR W. BEAL, Glen Rock, N. J. Filed Mar. 10, 1939.

PURIFINA

For Soothing Ointment for Cuts, Burns, Bites of Insects and Promotes Healing of Many Types of Minor Skin Irritations and Superficial Abrasions.
Claims use since 1889.

Ser. No. 417,126. JESTS, INC., New York, N. Y. Filed Mar. 16, 1939.

JEST

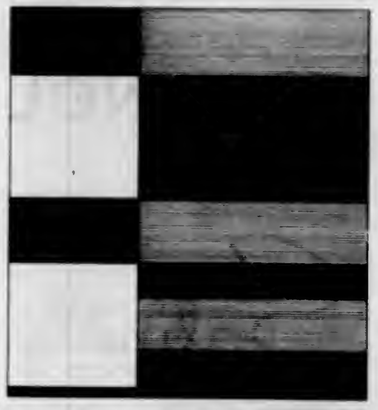
For Preparation Used for Indigestion and as an Anti-Acid.
Claims use since May 2, 1938.

Ser. No. 417,127. JESTS, INC., New York, N. Y. Filed Mar. 16, 1939.



For Preparation Used for Indigestion and as an Anti-Acid.
Claims use since May 2, 1938.

Ser. No. 417,128. JESTS, INC., New York, N. Y. Filed Mar. 16, 1939.



The drawing is lined for dark blue and light blue.
For Preparation Used for Indigestion and as Anti-Acid.
Claims use since Mar. 4, 1939.

Ser. No. 417,146. STUART-CHASE CO., North Bergen, N. J. Filed Mar. 16, 1939.

busk

For Face Powders, Bath Powders, Talcum Powder, Sachet, Deodorant Powder, Depilatory Powder, Face Rouge, Lip Rouge, Lip-stick, Lip Salve, Liquid Rouge, Cold Cream, Cleansing Cream, Vanishing Cream, Tissue Cream, Depilatory Cream, Massage Cream, Wrinkle Cream, Freckle Cream, Nail Creams, Blackhead Cream, Whitening Cream, Acne Cream, Medicated Cream, Bleaching Cream, Bath Salts, Bath Liquid, Skin Toning Lotion, Face Lotion, Astringent Lotion, Hand Lotion, Eye Lotion, Whitening Lotion, Eye Shadow, Shampoos, Hair Tonics, Hair Dressing, Hair Oil, Perfumes, Eau De Cologne, Nail Polish, Nail Polish Remover, Nail White, Solid Brilliantine, Liquid Brilliantine, Cuticle Remover, Dandruff Remover.
Claims use since Feb. 27, 1939.

Ser. No. 417,199. ELIZABETH ARDEN, INC., New York, N. Y. Filed Mar. 18, 1939.

STOP RED

No claim is made to the word "Red" apart from the mark.
For Lipstick, Rouge, Nail Polish.
Claims use since Feb. 20, 1939.

Ser. No. 417,205. STEPHEN R. DICKMAN, New York, N. Y. Filed Mar. 18, 1939.

»TOUDAY«

For Cosmetics—Namely, Lipstick, Rouge, Face Cream, Face Powder, Nail Polish, and Mascara.
Claims use since Feb. 25, 1939.

Ser. No. 417,235. WESLEY A. RICHARDS, Detroit, Mich Filed Mar. 18, 1939.

PERSULAN

For Medicated Scalp Pomade.
Claims use since Aug. 12, 1938.

Ser. No. 417,252. JACOB L. ABRAMS, doing business as Sparkol Company, New York, N. Y. Filed Mar. 20, 1939.

SPARKOL

For Hair Treating Preparations—Namely, Shampoo, Hair Tonic, Hair Dressing in Jelly Form, and Lotions for Finger and Permanent Waving of the Hair.
Claims use since Dec. 6, 1933.

Ser. No. 417,271. THE EDWAL LABORATORIES, INC., Chicago, Ill. Filed Mar. 20, 1939.

ORTHAZITE

For Chemicals and Mixtures of Chemicals for Use in Photographic Developing Processes, Particularly Mixtures of Chemicals for Imparting Modified Tones to Photographic Prints.
Claims use since Mar. 6, 1939.

Ser. No. 417,281. ITALIAN DRUGS IMPORTING CO., INC., New York, N. Y. Filed Mar. 20, 1939.

ECTOFOLLICOLINA I.S.M.

For Pharmaceutical Preparation—Namely, an Estrogenic Hormone for Intramuscular and Oral Uses.
Claims use since Sept. 1, 1938.

Ser. No. 417,296. FRANK NAU, (INC.), Portland, Oreg. Filed Mar. 20, 1939.

QUIET PLEASE

For Antiseptic Mouth Wash.
Claims use since Jan. 27, 1939.

Ser. No. 417,310. H. B. TALIAFERRO, doing business as The Iosaline Company, Washington, D. C. Filed Mar. 20, 1939.

IOSALINE

For Analgesic.
Claims use since Apr. 17, 1906.

Ser. No. 417,324. CHURCH & DWIGHT CO. INC., New York, N. Y. Filed Mar. 21, 1939. Under 10-year proviso.

CHURCH & CO'S

For Bicarbonate of Soda, Saleratus, and Baking-Soda.
Claims use since 1874.

Ser. No. 417,327. CHURCH & DWIGHT CO. INC., New York, N. Y. Filed Mar. 21, 1939. Under 10-year proviso.

DWIGHT'S

For Bicarbonate of Soda, Saleratus, and Baking-Soda.
Claims use since 1876.

Ser. No. 417,348. SHELL OIL COMPANY, San Francisco, Calif. Filed Mar. 21, 1939.

MEDOL

For Insecticidal Preparations.
Claims use since May 1, 1938.

Ser. No. 417,349. SHELL OIL COMPANY, San Francisco, Calif. Filed Mar. 21, 1939.

MEDONA

For Insecticidal Preparations.
Claims use since May 1, 1938.

Ser. No. 417,350. SHELL OIL COMPANY, San Francisco, Calif. Filed Mar. 21, 1939.

VAPONA

For Insecticidal Preparations.
Claims use since May 1, 1938.

Ser. No. 417,362. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Mar. 22, 1939.

POLYFORM

For Dyes and Dyestuffs.
Claims use since Feb. 28, 1939.

Ser. No. 417,469. NEWMAN PHARMACAL COMPANY, Louisville, Ky. Filed Mar. 24, 1939.

A NEWMAN'S S B

For Alkaline Silicate Bismuth Powder, Preparation for Internal Use for Neutralizing Excess Gastric Acidity.
Claims use since Feb. 24, 1939.

Ser. No. 417,579. INTERSTATE LABORATORIES INCORPORATED, Louisville, Ky. Filed Mar. 28, 1939.

OCULINE

For Medicated Eye Pads.
Claims use since Nov. 1, 1938.

Ser. No. 417,587. MORTIMER RUDEN, doing business as Montru For Beauty, New York, N. Y. Filed Mar. 28, 1939.

Montru for beauty
POMATEX

Applicant disclaims the words "For Beauty".
For Packaged Hair Pomade and Dressing.
Claims use since Mar. 10, 1938.

Ser. No. 417,637. IRVING AMSTERDAM, doing business as Formost Laboratories Co., New York, N. Y. Filed Mar. 30, 1939.

ALPHOX lotion

The word "Lotion" is disclaimed apart from the mark.
For Liquid Lotion for Skin Diseases.
Claims use since Feb. 1, 1939.

Ser. No. 417,671. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Mar. 30, 1939.

BUTYL EIGHT

No claim is made to the word "Butyl" apart from the mark.
For Mixture of Accelerators Capable of Effecting Vulcanization of Rubber in the Manufacture of Rubber Products.
Claims use since Apr. 5, 1938.

Ser. No. 417,876. INTERNATIONAL FILTER CO., Chicago, Ill. Filed Apr. 5, 1939.

FLUOREX

For Water Purifying Materials in Particular Tricalcium Phosphate.
Claims use since Mar. 16, 1939.

Ser. No. 417,890. QUALITY PRODUCTS CO., INC., New York, N. Y. Filed Apr. 5, 1939.

monique

For Toilet and Cosmetic Preparations in Liquid, Cream, and Powder Form Including Facial Creams, Facial Lotions, Facial or Beauty Masks, Face Powders, Rouges, Lipsticks, Eye Shadows, and Mascara.
Claims use since Feb. 17, 1939.

Ser. No. 417,965. IRWIN, NEISLER & Co., Decatur, Ill. Filed Apr. 7, 1939.

OSMOPAK

For Hypertonic Antiseptic Dressing in Paste Form for Local Infected Inflammatory Lesions.
Claims use since Mar. 17, 1939.

Ser. No. 417,966. IRWIN, NEISLER & Co., Decatur, Ill. Filed Apr. 7, 1939.

VERATRITE

For Medicinal Tablets to Provide Symptomatic and Functional Relief for Hypertension.
Claims use since Aug. 21, 1934.

Ser. No. 418,039. EUGENE FINGERLIN, Tulsa, Okla. Filed Apr. 10, 1939.

GLAZEEN

For Preparation Adapted To Be Applied to the Hair, Imparting Luster and Gloss Thereto, Causing the Hair to Stay in Place and to Prevent Tangling After Shampoo.
Claims use since May, 1938.

Ser. No. 418,060. THE REVLON NAIL ENAMEL CORPORATION, New York, N. Y. Filed Apr. 10, 1939.

TRINGAR

For Enamel Adapted for Coating Finger Nails.
Claims use since Feb. 13, 1939.

Ser. No. 418,097. CHARLES D. FARMER, Detroit, Mich. Filed Apr. 11, 1939.

BUB'LETS

For Bath Salts and Water Softener.
Claims use since Feb. 2, 1939.

Ser. No. 418,110. MAURICE LEVY, doing business as Malvy, New York, N. Y. Filed Apr. 11, 1939.

Phenomena

For Perfume.
Claims use since Apr. 4, 1939.

Ser. No. 418,138. L. ALFREDO DANIELE, doing business as La Presto Co., Williamsport, Pa. Filed Apr. 12, 1939.

La Presto

For Hair Tonic.
Claims use since July 1, 1938.

Ser. No. 418,260. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed Apr. 14, 1939.

NorDex

For Skin Cream for Skin Irritations and Treatment of Non-Infected Skin Blemishes, for Stopping Sunburn and Pain.
Claims use since Dec. 2, 1933.

Ser. No. 418,263. THE PI-LO-RA COMPANY, INC., Denison, Tex. Filed Apr. 14, 1939.

PI-LO-RA

For Ointment for Hemorrhoids and Piles.
Claims use since Jan. 1, 1936.

Ser. No. 418,345. SAMUEL R. JOHNSON, doing business as Johnson Laboratories, Kansas City, Mo. Filed Apr. 17, 1939.

J.L

For Mercolated Tablets, Disinfectant Spray Used in Preventing Coccidiosis, Round Worms, Red Mites, Cholera, Fowl Typhoid, Tuberculosis, etc.; Suiphocarbolate Tablets: Salve Applied Externally to Prevent

Feather Eating, Tail Picking and Cannibalism in Poultry; Worm Powder for Poultry; Iron-Dichromatic-Quinine-Betanaphthol Combination for Fowl Drinking Water; Preparation for Use in Poultry Drinking Water for Treatment of Colds; Chlorine Antiseptic Powder for Use in Treating Drinking Water and Disinfecting Barns, Stables and Poultry Houses; Louse Powder; Spray for Mouth and Nostrils of Poultry; Calcium Gluconate; Etherial Camphorated Oil; Uterine Capsules for Cattle; Branding Fluid for Cattle; Chlorinated Charcoal; Alkaline Compound Crystals; Calcium Chloride Solution; Bovine Purgative; Anti-Spasmodic, Analgesic and Anti-Ferment for the Treatment of Intestinal Colics; Purgative for Treatment of Constipation in Animals; White Liniment; Worm Oil; Nicotine Tablets; Hemorrahagic Septicemia Basterin; Mixed Basterin for Sheep; Autogenous Bacterin; Roup Bacterin; Fowl Typhoid Bacterin; Mixed Bacterin for Fowl; Blackleg Bacterin; Pulmonary Mixed Bacterin for Swine; Blackleg Agressin; Mixed Bacterin for Cattle; Mixed Bacterin for Treatment of Metritis in Cows; Abortion Antigen for Cows; Mixed Bacterin for Treatment of Keratitis in Cattle; Mixed Bacterin for Treatment of Pulmonary Diseases in Cattle; Anthrax Bacterin; and Mixed Bacterin for Treatment of Canine Distemper.

Claims use since March, 1935.

Ser. No. 418,354. THE NATIONAL BROOM MFG. CO., Pueblo, Colo. Filed Apr. 17, 1939.



For Insecticides.
Claims use since Jan. 1, 1939.

CLASS 12

Construction Materials

Ser. No. 417,088. GENERAL REFRACTORIES COMPANY, Philadelphia, Pa. Filed Mar. 15, 1939.

PERATEX

For Bricks.
Claims use since Feb. 28, 1939.

Ser. No. 417,568. W. A. FINOLES, INC., also doing business as Majestic Flashing Co., Baltimore, Md. Filed Mar. 28, 1939.

"ORIOLE"

For Thru Wall Flashing.
Claims use since Feb. 25, 1939.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 374,196. KENSINGTON, INCORPORATED, New Kensington, Pa. Filed Jan. 28, 1936.



The word "Kensington" is disclaimed apart from the mark.

For Tea Pots, Coffee Pots, Cocktail Shakers, Serving Plates and Service Plates and Plate Covers of Base Metal in the Nature of Gift Ware.

Claims use since Oct. 1, 1934.

Ser. No. 416,571. JOSEPHINE A. LYNCH, doing business as The Lynch Studio, Los Angeles, Calif. Filed Mar. 1, 1939.



For Roast Racks.
Claims use since Sept. 9, 1938.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 417,754. THE FORGING AND CASTING CORPORATION, Ferndale, Mich. Filed Apr. 1, 1939.

FLAMHARD

For Steel.
Claims use since Mar. 7, 1939.

CLASS 15

Oils and Greases

Ser. No. 417,181. PANTHER OIL & GREASE MFG. CO., Fort Worth, Tex. Filed Mar. 17, 1939.



For Lubricating Oils and Greases.
Claims use since Jan. 20, 1923.

CLASS 16

Paints and Painters' Materials

Ser. No. 417,632. THE WESTERN AUTO SUPPLY COMPANY, doing business as Western Auto Stores and as The Western Auto Supply Company, Kansas City, Mo. Filed Mar. 29, 1939.

COLOR-TONE

For Paint in Dry Form.
Claims use since Feb. 21, 1939.

CLASS 17

Tobacco Products

Ser. No. 417,636. AMORITA CIGAR CO., Baltimore, Md. Filed Mar. 30, 1939.

Amorita

For Cigars.
Claims use since Sept. 11, 1885.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 411,674. THE AUTO LICENSE SAFE COMPANY, Elyria, Ohio. Filed Oct. 17, 1938.

LI-CHEK

For Holders to be Mounted on Instrument Boards for Receiving and Permanently Locking Identification Tags to Periodically Licensed Vehicles or Articles.
Claims use since Sept. 1, 1936.

Ser. No. 416,213. THE TIRE AND RIM ASSOCIATION, INC., Cleveland, Ohio. Filed Feb. 18, 1939.



For Vehicle Wheels, and Rims for Vehicle Wheels.
Claims use since 1902.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 404,846. THE FOLSOM COMPANY, Dallas, Tex. Filed Apr. 4, 1938.

FOLSOM

Marigold

No claim is made to the word "Folsom" apart from the mark.

For Electrical Sockets, Switches, Wire Fuses, Electric Appliance Plugs and Sockets, Electric Motors and Parts, Electric Socket Appliances, Radio Receiving Sets, Electric Lamps, Electric Fans, Electrical Capacity Indicators, Electric Relays, Switch Panels, Circuit Breakers, and Electric Percolators.

Claims use since Aug. 1, 1936.

Ser. No. 406,903. BLACK KNIGHT COMPANY, Chattanooga, Tenn. Filed May 31, 1938.



Applicant disclaims the expression "Trade Mark".

For Lighting Equipment—Namely, Electrical Flood Lights, Reflectors, Luminaries, Lamps.

Claims use since May 21, 1938.

Ser. No. 414,984. THE CROSLEY CORPORATION, Cincinnati, Ohio. Filed Jan. 19, 1939.

READO

For Facsimile Apparatus to be Used with Radio Receiving Apparatus—i. e., Apparatus Involving Scanning Means for Recording Upon a Moving Web of Paper or the Like Intelligence Received by Radio, and Facsimile Apparatus in Combination with Radio Receiving Apparatus, and Parts and Supplies Therefor.
Claims use since Jan. 13, 1939.

Ser. No. 416,209. ST. CHARLES TECHNICAL LABORATORIES, INC., St. Charles, Ill. Filed Feb. 18, 1939.

FLEX-O-LITE

For Fluorescent Tubing Being Electric Lamps of Tubular Form.
Claims use since Feb. 8, 1939.

Ser. No. 416,400. BURGESS BATTERY COMPANY, Freeport, Ill. Filed Feb. 25, 1939.



For Dry Batteries and Flashlight Cases.
Claims use since March, 1917, on dry batteries; since August, 1926, on flashlight cases.

Ser. No. 417,473. ROLITE, doing business as Burson Knitting Company, Rockford, Ill. Filed Mar. 24, 1939.

ROLITE

For Electric Current Generators.
Claims use since Oct. 20, 1938.

Ser. No. 417,490. THE P. A. GEIER COMPANY, Cleveland, Ohio. Filed Mar. 25, 1939.

Royalaire

For Electrically Operated Suction Cleaners.
Claims use since Dec. 13, 1938.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 417,901. AMERICAN CHARACTER DOLL CO. INC., New York, N. Y. Filed Apr. 6, 1939.

ROCK-A-BYE

For Dolls.
Claims use since Feb. 15, 1939.

Ser. No. 418,208. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 13, 1939.

Center ⊙ Poise

For Ice Skates and Skate Outfits, the Latter Consisting of Attached Shoes and Skates.
Claims use since Apr. 1, 1939.

Ser. No. 418,237. MILTON BRADLEY COMPANY, Springfield, Mass. Filed Apr. 14, 1939.

GULLIVER'S TRAVELS

For Board Game.
Claims use since Apr. 10, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 386,105. THE GALION METALLIC VAULT COMPANY, doing business as Hercules Steel Products Company, Galion, Ohio. Filed Nov. 30, 1936.

HERCULES

For Hydraulic Hoists.
Claims use since Jan. 15, 1927.

Ser. No. 403,848. ALFA MACHINE COMPANY, Milwaukee, Wis. Filed Mar. 9, 1938.

ALFA

For Hand Operated Cutters or Power Operated Cutting Machines for Cutting Textiles, Upholstering Materials, Insulating Materials, Paper, Sheet Iron, Leather, Impregnated Materials, Rubber, Coated Materials, Fibrous Materials, Felts, Cellulose Materials, Plastic Materials, Synthetic Materials, and Similar Materials and Combinations Thereof; Special Machines for Cutting Sheets, Webs, Textiles, and Similar Material; Power Clutches and Sheet Feeding Mechanism for Use with Cutting Machines and for General Application, and Parts Thereof.
Claims use since Dec. 11, 1923.

Ser. No. 405,507. JAMES R. KEARNEY CORPORATION, St. Louis, Mo. Filed Apr. 20, 1938.

Hi-LINE

No claim is made to the word "Line" apart from the mark.
For Tools and Parts Thereof for Use in Installing, Maintaining, and Repairing Electric Lines, and Specifically, Namely, Inspection Mirrors, Clamps, Pole Grips, Pole Grip Extensions, Tie Sticks and Heads, Clampsticks and Heads, Cumalongs, Insulated Wire Cutters, Dead End Tools, Disconnect Sticks and Heads, Flux Ring Tongs, Fuse Puller and Eye Clampstick Combination, Handpoles and Parts Thereof, Lifting Poles and Parts Thereof, Socket Wrench Tools, Hinged Lifting Tools, Rope Hitches, Strain Insulator Hooks, Line Hose Tools and Heads, Tree Pruners and Heads, Utility Tool Sets, Skinning Knives, Tie Wire Assistants, and Wrench Sockets.
Claims use since Apr. 14, 1938.

Ser. No. 412,749. AMERICAN ZINC COMPANY OF TENNESSEE, Mascot, Tenn. Filed Nov. 15, 1938.

MASCOT

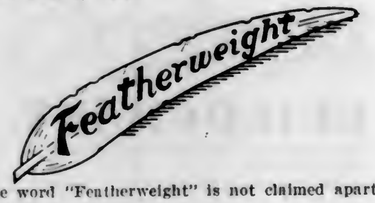
For Sheaves.
Claims use since Sept. 16, 1937.

Ser. No. 412,927. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 18, 1938.



The drawing is lined for gold and black.
For Mechanics' Tools—Namely, Wrenches, Pliers, Chisels, Tinners' Snips, Screw Drivers, Hammers, Hand Saws, Coping Saws, Hack Saws, Smooth Planes, Block Planes, Bit Braces, Auger Bits, Hand Drills, Breast Drills, Pipe Stock and Die Sets, Axes, Electric Soldering Irons, and Hatchets.
Claims use since Jan. 23, 1937.

Ser. No. 415,809. UTICA CUTLERY COMPANY, Utica, N. Y. Filed Feb. 8, 1939.



The word "Featherweight" is not claimed apart from the mark.
For Pocket Knives and Table Knives All of Base Metal.
Claims use since 1933.

Ser. No. 415,928. C. J. SIMPSON, Oakland, Calif. Filed Feb. 9, 1939.

SIMSET

For Kitchen Food Mixers.
Claims use since Sept. 1, 1938.

Ser. No. 415,949. MRS. MAUD HARTMAN, doing business as King Cole Muddler, New York, N. Y. Filed Feb. 11, 1939.

King Cole Muddler

The word "Muddler" is disclaimed apart from the mark.
For Beverage Stirrer of Thermoplastic Synthetic Resin Material.
Claims use since Dec. 15, 1938.

Ser. No. 416,206. ROLLER BEARING COMPANY OF AMERICA, Trenton, N. J. Filed Feb. 18, 1939.

CYCLOPS

For Roller Bearings.
Claims use since Feb. 11, 1939.

Ser. No. 416,359. AMERICAN IRON & MACHINE WORKS COMPANY, Oklahoma City, Okla. Filed Feb. 24, 1939.

SIMPLOMATIC

For Oil Field Equipment—Namely, Bailers, Break-Out Blocks, Blow-Out Preventers, Core Barrels, Core Bits, Crown-Blocks, Cat-Heads, Draw-Works, Drilling Rigs, Drill Bits, Engine Bases, Engine Braces, Engine Pistons, Mud-Pump Valves, Inside Pipe-Cutters, Pipe Racking Apparatus, Pipe-Swivels, Pipe-Tongs, Pipe Elevators, Rocker Arms, Releasing Joints, Rotary Tables, Shale Separators, Sheaves, Water Cooling Apparatus for Rope-Drums and Brake-Drums, Water Softening Apparatus of a Mechanical Nature and Exclusive of Traps, for Introducing Chemicals to Boiler Feed Water, Whipstocks, Wrenches, Flow-Beans, Paraffin Removing Apparatus, Pressure Flow Apparatus for Wells, Sucker-Rod Couplings, Sucker-Rod Guides, Sucker-Rod Reciprocating Apparatus, Wall Packers, Well Pumps, Casing Heads, Well Tubing Supports, Tubing Heads, and Metal Portable Tool Houses.
Claims use since Apr. 1, 1938.

Ser. No. 416,590. CHEFFORD MASTER MANUFACTURING CO. INC., Fairfield, Ill. Filed Mar. 2, 1939.

FLEX-O-GRIP

No claim is made to the word "Grip" apart from the mark.
For Automobile Clutch Plates.
Claims use since Oct. 13, 1938.

Ser. No. 417,523. THE CLEVELAND TRACTOR COMPANY, Cleveland, Ohio. Filed Mar. 27, 1939.

The General

For Tractors.
Claims use since February, 1939.

Ser. No. 417,538. H. L. G. COMPANY, Kalamazoo, Mich. Filed Mar. 27, 1939.

WOLVERINE

For Mechanical Water Softeners.
Claims use since Feb. 22, 1939.

CLASS 24

Laundry Appliances and Machines

Ser. No. 413,866. GROSS MACHINERY CO. INC., Buffalo, N. Y. Filed Dec. 15, 1938.

Sil-ex

The representation of the name plate is disclaimed.
For Laundry Machinery Consisting of Washers and Drying Tumblers Used in Laundries and Dry-Cleaning Plants for Cleaning, De-Odorizing, and Drying Garments.
Claims use since Oct. 24, 1938.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 413,787. INSTRUMENT SPECIALTIES COMPANY, INC., Little Falls, N. J. Filed Dec. 13, 1938.

CHARGICATOR

For Instrument for Indicating the Condition of Storage Batteries.
Claims use since January, 1937.

Ser. No. 414,169. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed Dec. 23, 1938.

CINEMASTER

For Cameras.
Claims use since Dec. 8, 1938.

Ser. No. 414,170. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed Dec. 23, 1938.

HEXAR

For Photographic Lenses.
Claims use since Dec. 8, 1938.

Ser. No. 415,091. TEFFT-JACKSON, INCORPORATED, Providence, R. I. Filed Jan. 21, 1939.

TEJAX

For Valve and Damper Position Gauges, Indicators, and Measuring Devices.
Claims use since August, 1934.

Ser. No. 415,709. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Feb. 7, 1939.

Karat

For Photographic Cameras.
Claims use since Apr. 3, 1937.

Ser. No. 417,461. CHARLES KALISH, doing business as Kaiko Photo Products, Brooklyn, N. Y. Filed Mar. 24, 1939.

KA-I-KO

For Easels for Holding Photographic Paper, Photographic Printing Boxes, Photographic Enlargers, Transparency Mounts for Projection Purposes, Filing Boxes for the Transparency Mounts, Viewers for the Transparency Mounts, Projectors of Transparencies, Exposure Meters for Photographic Papers, Retouching Stands, Film Filing Boxes and Print Tongs.
Claims use since January, 1939.

CLASS 27

Horological Instruments

Ser. No. 417,483. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Mar. 25, 1939.

HIS EXCELLENCY

For Watches—Namely, Wrist or Strap Watches.
Claims use since Feb. 1, 1938.

Ser. No. 417,484. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Mar. 25, 1939.

HIS HIGHNESS

For Watches—Namely, Wrist or Strap Watches.
Claims use since Jan. 21, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 417,652. NATIONAL SILVER COMPANY, New York, N. Y. Filed Mar. 30, 1939.

GUILDCRAFT

For Sterling Silver and Silver Plated Flatware, Hollow Ware, and Tableware.
Claims use since Mar. 15, 1939.

Ser. No. 417,653. NATIONAL SILVER COMPANY, New York, N. Y. Filed Mar. 30, 1939.

IMPERIAL PLATE

Applicant disclaims the word "Plate" except as shown.
For Sterling Silver and Silver Plated Flatware, Hollow Ware, and Tableware.
Claims use since Mar. 15, 1939.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 404,922. STETSON CHINA COMPANY, INC., Chicago, Ill. Filed Apr. 5, 1938.



Applicant disclaims the representations of the cup and saucer apart from the mark.
For China Tableware.
Claims use since Mar. 5, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 395,271. GENERAL WOOD PRODUCTS CO., Rockford, Ill. Filed July 16, 1937.

The GOLDEN RULE Line
A True Measure of Value

For Wooden Articles, Housewares, and House Furnishings—Namely, Wall Shelves and Cabinets, Bookcases, Chests of Drawers, Breakfast Trays, Serving Trays, Serving Tray Stands, Kitchen and Bath Stools, Card Tables, Kitchen Tables, Occasional Tables, Picnic and Beach Tables, Vanity Tables, Smoking Stands, Back Rests, Shoe Shine Boxes, and Newspaper Racks.
Claims use since April, 1932.

Ser. No. 417,255. ROBERT J. BRANDT, Los Angeles, Calif. Filed Mar. 20, 1939.

Deshador

For Desks or Tables.
Claims use since February, 1939.

Ser. No. 417,513. TRANSPAR CORPORATION, Chicago, Ill. Filed Mar. 25, 1939.

TRANSPAR

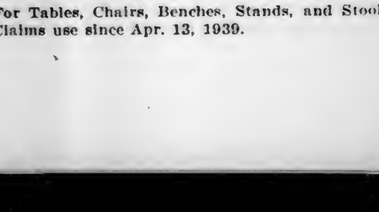
For Furniture Protectors, Furniture Covers, Slip Covers, and Upholstery Covers.
Claims use since Jan. 18, 1939.

Ser. No. 417,634. WESTERN VENETIAN BLIND CO., North Bergen, N. J. Filed Mar. 29, 1939.

WESTERN VENETIAN BLINDS

No claim is made to the words "Venetian Blinds" or to the representation of a Venetian blind apart from the mark. The drawing is lined for red.
For Venetian Blinds, Roller Blinds, Woodweb Shades, and Bamboo Shades.
Claims use since June 1, 1902.

Ser. No. 418,286. BAKER FURNITURE, INC., Grand Rapids, Mich. Filed Apr. 15, 1939.



For Wooden and Upholstered Household and Office Furniture—Namely, Sofas, Stools, Love Seats, Wing Chairs, Barrel Chairs, Lounge Chairs, Slipper Chairs, Settees, Settles, Marquises, Footstools, Tilt-Top Tables, Hanging Shelves, Capstan Tables, Dumbwaiters, Coffee Tables, Stands, Urn Tables, Whatnots, Sofa Tables, Card Tables, Folding Card Tables, Magazine Racks, Desks, Secretaries, Bookcases, Nest Tables, Letter Racks, Cocktail Tables, Dressing Screens, Sconces, Picture Frames, Pier Tables, Fern Stands, Butler Trays, Lamp Tables, Powder Tables, Tray Toptilt Tables, Pie Crust Tilt Tables, Drum Tables, Well Stands, Hanging Cabinets, Commode Tables, Octagon Tables, End Tables, Revolving Book Stands, Book Troughs, Sewing Tables, Corner Stands, Cellarettes, Kidney Bars, Dressing Chests, Mirrors, Dressing Tables, Portable Mirrors, Chests, Beds, Benches, Night Tables, Dresser Bases, Pedestal Cabinets, Trumeaus, Chiffoniers, Highboys, Lowboys, Sideboards, Cabinets, Servers, Dining Room Tables, Chairs, Arm Chairs, Buffets, Serving Tables, Commodes, Welsh Dressers, Pier Cabinets, Console Buffets, China Presses, Wall Mirrors, Consoles, Corner Cabinets.
Claims use since Feb. 14, 1939.

Ser. No. 418,298. GORMAN L. FISHER, Jamestown, N. Y. Filed Apr. 15, 1939.



For Tables, Chairs, Benches, Stands, and Stools.
Claims use since Apr. 13, 1939.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 376,292. MAID-O'-MIST, INC., Chicago, Ill. Filed Mar. 23, 1936.

MAID-O'-MIST

For Automatic Humidifiers for Vacuum, Steam, and Hot Water Radiators.
Claims use since Aug. 1, 1934.

Ser. No. 408,468. MOORE DRY KILN COMPANY OF OREGON, North Portland, Oreg. Filed July 13, 1938.

CROSS-CIRCULATION MOORE INTERNAL FAN SYSTEM

All Notations except "Moore Since 1879" apart from the mark are disclaimed.
For Dry Kilns.
Claims use since Dec. 1, 1935.

Ser. No. 415,620. AMERICAN AIR FILTER COMPANY, INC., Louisville, Ky. Filed Feb. 6, 1939.

ROTO-CLONE

For Centrifugal Dust Separators of the Blower Type.
Claims use since June 14, 1933.

Ser. No. 416,534. THE AUER REGISTER COMPANY, Cleveland, Ohio. Filed Mar. 1, 1939.

DURABILT

The word "Bilt" is disclaimed apart from the mark.
For Registers and Grilles for Ventilating, Heating, Cooling, Air Conditioning Systems, and the Like.
Claims use since June 1, 1937.

Ser. No. 416,535. THE AUER REGISTER COMPANY, Cleveland, Ohio. Filed Mar. 1, 1939.

DURA-FLO

For Registers and Grilles for Ventilating, Heating, Cooling, Air Conditioning Systems, and the Like.
Claims use since Apr. 1, 1938.

Ser. No. 416,536. THE AUER REGISTER COMPANY, Cleveland, Ohio. Filed Mar. 1, 1939.

FIN-FLEX

For Registers and Grilles for Ventilating, Heating, Cooling, Air Conditioning Systems, and the Like.
Claims use since Apr. 1, 1938.

Ser. No. 416,790. THE AIREOZONE CORPORATION, Chicago, Ill. Filed Mar. 8, 1939.

AIREOZONE

For Building Heating Furnaces and Parts Thereof.
Claims use since Nov. 29, 1938.

Ser. No. 416,879. THE TAPPAN STOVE COMPANY, Mansfield, Ohio. Filed Mar. 9, 1939.

Visualite

For Cooking Apparatus—Namely, Ranges Heated by Gas or Electricity.
Claims use since Feb. 27, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 418,224. INTERNATIONAL METALLIC PACKING CORPORATION, Chicago, Ill. Filed Apr. 3, 1939.

CASCO

Applicant disclaims the representation of the goods apart from the mark.
For Metallic Packing.
Claims use since June 1, 1904.

CLASS 36

Musical Instruments and Supplies

Ser. No. 416,305. AMERICAN PIANO PLATE COMPANY, Racine, Wis. Filed Feb. 23, 1939.

AMPLA-TONE

No claim is made to the word "Tone" apart from the mark.
For Piano Plates.
Claims use since Aug. 1, 1938.

Ser. No. 417,443. C. G. CONN LTD., Elkhart, Ind. Filed Mar. 24, 1939.

VICTOR

For Cornets.
Claims use since Dec. 27, 1917.

Ser. No. 417,444. C. G. CONN LTD., Elkhart, Ind. Filed Mar. 24, 1939.

COPRION

For Metal Bells for Musical Instruments.
Claims use since Feb. 23, 1939.

Ser. No. 417,445. C. G. CONN LTD., Elkhart, Ind. Filed Mar. 24, 1939.

DUROCAST

For Metal Keys for Musical Instruments, Including Clarinets, Saxophones, Flutes, Piccolos, Oboes, Bassoons, Sarrusophones, and English Horns.
Claims use since Feb. 24, 1939.

CLASS 37

Paper and Stationery

Ser. No. 413,187. EMIL LICHLEITNER, doing business as Analysis Forms Co., New York, N. Y. Filed Nov. 26, 1938.

ANALYSIS FORMS COMPANY
NEW YORK
EYE-DEAL

The words "Analysis Forms Company" and "New York" are disclaimed apart from the mark.
For Writing Paper, Letter Paper, Analysis Pads, Paper Sheet Packs for Filling Loose Leaf Binders, Paper for Blank Books, Bookkeeping Books, Note Books, Sales Books, Stenographers Books, Composition Books, Printed and Ruled Sheets Bound or Unbound Used for Bookkeeping, Accounting and Charting Purposes, Record Forms, Paper Record Sheets, Paper Record Strips and Manifolding Sets of Record Sheets and Strips.
Claims use since Jan. 1, 1935.

Ser. No. 417,165. THE DORECKMUN COMPANY, Cleveland, Ohio. Filed Mar. 17, 1939.

Colorettes

For Wrappers.
Claims use since Jan. 5, 1939.

Ser. No. 417,197. AMERICAN LACE PAPER COMPANY, Milwaukee, Wis. Filed Mar. 18, 1939.

PAPER PRODUCTS OF DISTINCTION

Applicant disclaims the words apart from the mark as shown.
For Paper Box Laces, Paper Doilies, Paper Napkins, Paper Dental Pinafores, Shelf Paper, Shelf and Lining Paper, Paper Frilled Skewers, Paper Tray Covers, and Paper Tumbler Covers.
Claims use since February, 1936.

CLASS 39

Clothing

Ser. No. 412,640. HASPEL BROS., INC., New Orleans, La. Filed Nov. 12, 1938.

FRIO-AIRE

For Men's Suits.
Claims use since Apr. 6, 1938.

Ser. No. 414,651. C. C. M. INCORPORATED, Buffalo, N. Y. Filed Jan. 10, 1939.

C·C·M·

For Skating Shoes, Stocking Suspenders, and Hockey Knickers.
Claims use since Feb. 7, 1925.

Ser. No. 415,365. B. A. VON HENSLER, New York, N. Y. Filed Jan. 28, 1939.

Wispese

For Foundation Garments—Namely, Girdles and Corselets.
Claims use since Dec. 15, 1938.

Ser. No. 415,370. BACH SHOE COMPANY, St. Louis, Mo. Filed Jan. 30, 1939.

Annabella
Hollywood Styled

No claim is made to the words "Hollywood Styled" apart from the mark.
For Ladies', Misses', and Children's Shoes, Oxfords, House-Slippers, Mules, Pumps, and Sandals Made of Leather, Rubber, Fabric, and Combinations of Said Materials.
Claims use since Jan. 17, 1938.

Ser. No. 415,371. BACH SHOE COMPANY, St. Louis, Mo. Filed Jan. 30, 1939.

by Carole
Hand-Crafted
NEW YORK and PARIS

No claim is made to the words "By", "Hand-Crafted", and "New York and Paris" apart from the mark.
For Ladies', Misses', and Children's Shoes, Oxfords, House-Slippers, Mules, Pumps, and Sandals Made of Leather, Rubber, Fabric, and Combinations of Said Materials.
Claims use since Sept. 1, 1938.

Ser. No. 415,429. A. G. WALTON & CO., INC., Chelsea, Mass. Filed Jan. 30, 1939.

Walco
WILL WEAR WELL

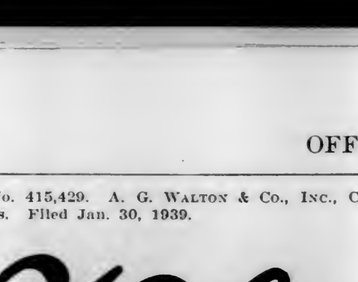
No claim is made to the words "Will Wear Well" apart from the mark.
For Rubber Soles.
Claims use since Nov. 1, 1938.

Ser. No. 416,086. SEABOARD MANUFACTURING COMPANY, INCORPORATED, Baltimore, Md. Filed Feb. 15, 1939.

PURI - TIZED

For Outer Shirts and Work Shirts.
Claims use since Feb. 2, 1939.

Ser. No. 416,195. LITTLE TOMMY TUCKER COATS, INC., New York, N. Y. Filed Feb. 18, 1939.



The word "Coats" is disclaimed apart from the mark. The picture is fanciful.
For Boys' Coats.
Claims use since Jan. 11, 1939.

Ser. No. 416,468. THE LIMA CORD SOLE AND HEEL COMPANY, Lima, Ohio. Filed Feb. 27, 1939.

NEO-KORD

No claim is made to "Kord".
For Soles and Heels of Rubber, or Rubber and Fibrous Material.
Claims use since Nov. 8, 1937.

Ser. No. 416,533. AMERICAN SALES DEVELOPMENT CO., INC., New York, N. Y. Filed Mar. 1, 1939.

SINO-HOSE
PURE CHINA SILK

No claim is made to the words shown apart from the mark.
Hosiery Made of Pure China Silk.
Claims use since Feb. 15, 1939.

Ser. No. 416,563. HERMES, S. A., Paris, France. Filed Mar. 1, 1939.

HERMES

For Ladies' and Gentlemen's Belts for Outer Wear, Golf Gloves and Sport Gloves Made of Leather, Sport Belts, Sport Coats, Sport Skirts, Coats, Hats, and Caps, for the Use of Men, Women, and Children, Leggings, Scarfs, and Arm Bands.
Claims use since December, 1936.

Ser. No. 416,781. VANITY FAIR SILK MILLS, Reading, Pa. Filed Mar. 7, 1939.

Applause

For Underwear for Men, Women, and Children.
Claims use since Feb. 10, 1939.

Ser. No. 416,913. PALIZZIO, INC., New York, N. Y. Filed Mar. 10, 1939.

Palizzio
HAND CRAFTED

The words "Hand Crafted" are disclaimed apart from the mark.
For Shoes of Leather, of Cloth, and of Combinations of Leather and Cloth.
Claims use since June 1, 1937.

Ser. No. 417,027. J. G. MENIHAN CORP., Rochester, N. Y. Filed Mar. 13, 1939.

FAIR town!

For Shoes Made of a Combination of Leather, Rubber, and Fabric, or Leather and Fabric Only, or Leather Only.
Claims use since Mar. 8, 1939.

Ser. No. 417,114. BROOKLYN HANDKERCHIEF CO., Brooklyn, N. Y. Filed Mar. 16, 1939.

TALLY-HO

For Handkerchiefs.
Claims use since Jan. 1, 1938.

Ser. No. 417,136. FRIED OSTERMAN COMPANY, Milwaukee, Wis. Filed Mar. 16, 1939.

Industro

For Men's and Boys' Leather Gloves, Mittens, Helmets, and Leather and Woolen Sports Coats, Jackets, and Trousers.
Claims use since Oct. 19, 1938.

Ser. No. 417,193. ARMAND SCHWAB & CO., INC., New York, N. Y. Filed Mar. 16, 1939.

ADMIRAL

For Wool Felt Hat Bodies and Hat Hoods Made of Wool, for Making Hats for the Use of Women and/or Children.
Claims use since Apr. 1, 1933.

Ser. No. 417,243. MORRIS WARTSKY, New York, N. Y. Filed Mar. 18, 1939.

Dubolero

For Women's, Misses', and Children's Boleros, Jackets, Vests, and Blouses.
Claims use since Oct. 15, 1938.

Ser. No. 417,283. KELLER, HEUMANN & THOMPSON COMPANY, INC., Rochester, N. Y. Filed Mar. 20, 1939.

Wyndair

For Men's Suits and Overcoats.
Claims use since Jan. 26, 1939.

Ser. No. 417,364. HARRY GOODMAN, New York, N. Y. Filed Mar. 22, 1939.

STARLIGHT FASHION

The word "Fashion" is disclaimed apart from the mark.
For Ladies' Dresses.
Claims use since June, 1938.

Ser. No. 417,386. IRWIN OLENIK, New York, N. Y. Filed Mar. 22, 1939.

HI - I'M FROM

For Men's, Women's, Boys', and Girls' Hats, Berets, and Caps; Men's and Boys' Negligee Shirts, Sport Shirts, Sweat Shirts; Bandannas, Handkerchiefs, Neckerchiefs, Neckties, Scarfs, Sport Coats, Coat Sweaters, and Slip-over Sweaters.
Claims use since Jan. 15, 1939.

Ser. No. 417,392. WOLFE & LANG, INC., New York, N. Y. Filed Mar. 22, 1939.

"FLATUMS"

For Corsets.
Claims use since Feb. 1, 1939.

Ser. No. 417,401. CONVERSE RUBBER COMPANY, Malden, Mass. Filed Mar. 23, 1939.

ALL STAR

For Boots and Shoes of Leather, Rubber, Fabric, and Combinations Thereof.
Claims use since Oct. 24, 1916.

Ser. No. 417,441. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 24, 1939.

CELACLOCK

For Men's and Women's Hosiery.
Claims use since Mar. 20, 1939.

Ser. No. 417,558. THE SUPERIOR SHOE CO., INC., Chicago, Ill. Filed Mar. 27, 1939.



For Shoes Made of the Combination of Leather and Fabric.
Claims use since Nov. 4, 1938.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 412,308. RUSSELL FRASER WIRE COMPANY, New York, N. Y., now by change of name Fraser Manufacturing Co. Inc. Filed Nov. 2, 1938.

Clover

For Gimp.
Claims use since Oct. 20, 1938.

Ser. No. 415,459. HENRY LEDERER AND BROTHER, INCORPORATED, Providence, R. I., Filed Jan. 31, 1939.

BRUSHMASTER

For Combination Comb and Brush Sets for Dressing Human Hair.
Claims use since Dec. 29, 1938.

Ser. No. 417,190. VENUS CORPORATION, New York, N. Y. Filed Mar. 17, 1939.

VENUS BEAUTY SHIELD

The words "Beauty Shield" are disclaimed except as shown.
For Hoods for the Head for Protecting Coiffures, Face Make-up, and Clothes When Dressing.
Claims use since Feb. 15, 1939.

Ser. No. 417,891. ROCHESTER BUTTON COMPANY, Rochester, N. Y. Filed Apr. 5, 1939.

SYDORN

For Buttons, Other Than Precious Metal, for Personal Wear.
Claims use since Mar. 31, 1939.

Ser. No. 418,093. CELLULOID CORPORATION, Newark, N. J. Filed Apr. 11, 1939.

TUSOME

For Dresser and Bag Toilet Sets, Not Made of nor Trimmed with, Precious Metal, Comprising Brushes, Combs, Combination Hair Brushes and Combs, Mirrors, Puff Boxes, Powder Pats, Jewel Boxes, Trays, Files, Hooks, Shoe-Horns, Cuticle Knives, Perfume Bottles, Scissors, Clocks, Picture Frames, Cream Jars, and Utility Boxes.
Claims use since Aug. 15, 1938.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 410,590. THE LA RESISTA CORSET COMPANY, Bridgeport, Conn. Filed Sept. 15, 1938.

Fabric Boning

No claim is made to the word "Fabric" apart from the mark.
For Elastic Textile Wide Piece Goods Composed Wholly or in Part of Rayon and Rubber Threads.
Claims use since Apr. 2, 1937.

Ser. No. 411,315. UNITED ELASTIC CORPORATION, Easthampton, Mass. Filed Oct. 5, 1938.



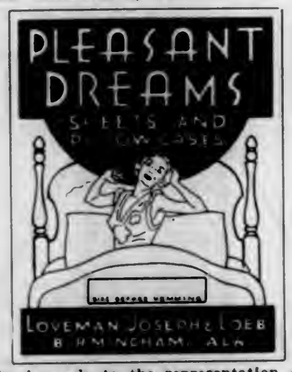
No claim is made to the word "Weave" apart from the combination shown.
For Elastic Webbing in the Bolt and in the Piece.
Claims use since June 2, 1938.

Ser. No. 411,872. THE KENDALL COMPANY, Walpole, Mass. Filed Oct. 21, 1938.

SABELL

For Fabrics Designed More Especially for Use as Interlinings, Stiffeners, and Padding and Sold Both in the Bolt and in the Piece.
Claims use since Sept. 22, 1938.

Ser. No. 414,454. LOVEMAN, JOSEPH & LOEB, Birmingham, Ala. Filed Jan. 3, 1939.



No claim is made to the representation of the label per se or to the words "Sheets and Pillow Cases", "Size Before Hemming" and "Birmingham, Ala." apart from the mark.
For Sheets and Pillow Cases.
Claims use since Dec. 1, 1937.

Ser. No. 416,878. ELSIE SUNDERLAND, Los Angeles, Calif. Filed Mar. 9, 1939.

ELZA—HOLLYWOOD

Applicant disclaims the word "Hollywood" except as shown.
For Woolen, Silk, Cotton, and Rayon Piece Goods, and Combinations Thereof.
Claims use since April, 1937.

Ser. No. 417,459. HOCKMEYER BROS., INC., New York, N. Y. Filed Mar. 24, 1939.

RAYOROY

For Cotton Piece Goods—To-Wit, Corduroy.
Claims use since Mar. 10, 1939.

Ser. No. 417,471. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed Mar. 24, 1939.

KOOLNITE

For Blankets.
Claims use since Nov. 14, 1938.

Ser. No. 417,605. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Mar. 29, 1939.

LINLINE

For Cotton Piece Goods.
Claims use since Feb. 15, 1939.

Ser. No. 417,728. WILKES-BARRE LACE MANUFACTURING COMPANY, Wilkes-Barre, Pa., and New York, N. Y. Filed Mar. 31, 1939.

Formalace

For Lace Curtains.
Claims use since Nov. 7, 1938.

Ser. No. 417,755. FORSTMANN WOOLEN CO., Passaic, N. J. Filed Apr. 1, 1939.

Shellda

For Woolen Piece Goods.
Claims use since Mar. 15, 1939.

Ser. No. 417,933. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 6, 1939.

Debutone

For Rayon and Silk Piece Goods.
Claims use since Nov. 10, 1938.

CLASS 43

Thread and Yarn

Ser. No. 417,430. THE AMERICAN THREAD COMPANY, New York, N. Y. Filed Mar. 24, 1939.

SANSIL

For Thread.
Claims use since Mar. 13, 1939.

Ser. No. 417,431. THE AMERICAN THREAD COMPANY, New York, N. Y. Filed Mar. 24, 1939.

SILLATEEN

For Thread.
Claims use since Mar. 13, 1939.

Ser. No. 417,440. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 24, 1939.

CELACLOCK

For Yarns.
Claims use since Mar. 21, 1939.

Ser. No. 417,540. JAMES LEES & SONS COMPANY, Bridgeport, Pa. Filed Mar. 27, 1939.

CHALIMAR

For Crochet and Knitting Cotton.
Claims use since January, 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 398,019. ELMER A. REID, Morrisville, Pa. Filed Oct. 1, 1937.

Airoma

"The Humidifier That Heals"

The words "The Humidifier That Heals" are disclaimed apart from the mark.

For Electrical Therapeutic Vaporizer and Humidifier for Discharging Vapor to Add Moisture to the Air and for Dispensing Fragrant Odors and Medicinal Inhalants.

Claims use since July 9, 1937.

Ser. No. 413,001. COLLEGE OF ELECTRONIC MEDICINE, BLANCHE & JEANNE R. ABRAMS MEMORIAL FOUNDATION, San Francisco, Calif. Filed Nov. 21, 1938.

RADIOSCOPE

No claim is made to the word "Radioscope" except in association with the other features of the mark.

For Diagnostic Tuning Devices for Medical Use.

Claims use since Sept. 23, 1938.

Ser. No. 414,350. A. HENKEL & SON, INC., Keene, N. H. Filed Dec. 30, 1938.



For Cuticle and Nail Scissors, Cuticle and Nail Nippers, Fingernail Clips, Tweezers, Nail Files, Implements for the Removal of Blackheads, Cuticle Knives, Dissecting Scissors, Surgical Scissors, Bandage Scissors, Scalpels, Cartilage Knives, and Forceps.

Claims use since Oct. 5, 1938.

Ser. No. 415,792. PEERLESS LABORATORIES, INC., New York, N. Y. Filed Feb. 8, 1939.



The words "Radiography" and "Fluoroscopy" are disclaimed apart from the mark.

For X-Ray Generators Used for Diagnostic and Therapeutic Purposes.

Claims use since Dec. 1, 1938.

Ser. No. 415,868. DE TREY FRÈRES SOCIÉTÉ ANONYME, Zurich, Switzerland. Filed Feb. 7, 1939.

Selitrol

For Dental Materials—Namely, Synthetic Resins, Rubber, Waxes, Cement, Porcelain-Cement, Artificial Teeth, Complete and Partial Artificial Dentures for Prosthetic Work in the Laboratory of the Dental Mechanic.

Claims use since Jan. 10, 1939.

Ser. No. 418,069. GERARD SMALDONE, doing business as The Debs Company, Rochester, N. Y. Filed Apr. 10, 1939.

"debs"

For Finger Nail Stencils.

Claims use since Nov. 14, 1938.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 396,117. CANINE VITA-CANDY COMPANY, INC., Waterbury, Conn. Filed Aug. 7, 1937.



The words "Prescribed Brand" and the prescription sign are disclaimed apart from the mark.

For Vitamine Containing Foods for Pets—Namely, Dogs, Cats, and Horses.

Claims use since July 1, 1937.

Ser. No. 396,962. JOEL BARLOW MCKENZIE, doing business as Triangle Poultry Farm, Newfield, N. J. Filed Aug. 31, 1937.

TRIANGLE POULTRY FARM

For Eggs.

Claims use since November, 1929.

Ser. No. 400,940. AMERICAN RENAISSANCE ASSOCIATES, INC., White Plains, N. Y. Filed Dec. 17, 1937.

GOOD NEIGHBOR

For Canned Coffee, Corn, and Peaches.

Claims use since Dec. 1, 1937.

Ser. No. 411,055. JOLLY JOAN, Portland, Oreg. Filed Sept. 28, 1938.



Jolly Joan

The portrait is fanciful.

For Gelatine Dessert.

Claims use since June 27, 1935.

Ser. No. 414,173. THE EUCLID CANDY CO. OF ILLINOIS, INC., Chicago, Ill. Filed Dec. 23, 1938.

Four Bell

For Candy.

Claims use since Nov. 8, 1938.

Ser. No. 414,836. SANTA CRUZ ARTICHOKE & SPROUT GROWERS, Santa Cruz, Calif. Filed Jan. 14, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

COAST KING

For Fresh Vegetables.

Claims use since Oct. 8, 1936.

Ser. No. 414,837. SANTA CRUZ ARTICHOKE & SPROUT GROWERS, Santa Cruz, Calif. Filed Jan. 14, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

COAST QUEEN

For Fresh Vegetables.

Claims use since Oct. 8, 1936.

Ser. No. 415,800. SMITH'S MELO CREAM DONUTS, York, Pa. Filed Feb. 8, 1939.

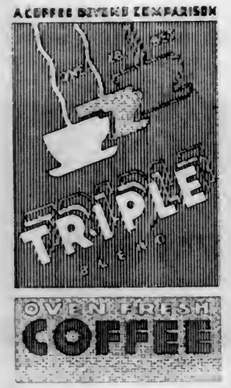
MELO CREAM

The word "Cream" is disclaimed apart from the mark.

For Doughnuts.

Claims use since Nov. 15, 1932.

Ser. No. 415,887. ALBERT EHLERS, INC., Brooklyn, N. Y. Filed Feb. 10, 1939.



No claim is made to the words "One Lb. Net", "Oven Fresh Coffee", "A Coffee Beyond Comparison", and "Triple Blend" apart from the mark. The drawing is lined for red and yellow.

For Coffee.

Claims use since Jan. 10, 1924.

Ser. No. 415,973. BANKSTON-EDWARDS CANNING COMPANY, Zebulon, Ga. Filed Feb. 13, 1939.

BECCO

For Fresh Peaches, Fresh Pimientos, and Fresh Turnip Greens.
Claims use since Jan. 27, 1939.

Ser. No. 416,311. CAPITOL FOODS, INC., Madison, Wis. Filed Feb. 23, 1939.

MARLA

For Dessert Preparations—Namely, Rennet Tablets.
Claims use since Dec. 3, 1938.

Ser. No. 416,660. MORRIS STARKSTEIN, doing business as General Tobacco and Grocery Company, Detroit, Mich. Filed Mar. 3, 1939.

J & W

For Canned Vegetables.
Claims use since Apr. 8, 1938.

Ser. No. 416,665. C. E. VOOGT CANDY CO., Chicago, Ill. Filed Mar. 3, 1939.

TWIGS

For Chocolate Coated Candies.
Claims use since Jan. 1, 1934.

Ser. No. 416,867. PAPPY'S ICE CREAM BISCUIT CO., College Station, Tex. Filed Mar. 9, 1939.



PAPPY'S



No claim is made to the representation of the goods apart from the mark.
For Frozen Confection.
Claims use since May 15, 1938.

Ser. No. 416,869. THE PICKAWAY CANNING COMPANY, Circleville, Ohio. Filed Mar. 9, 1939.

Mountain GLEN

For Canned Vegetables.
Claims use since Aug. 31, 1938.

Ser. No. 416,958. THE WILLIAM F. KENNY COMPANY, New York, N. Y. Filed Mar. 11, 1939.

KENHIC FARM

For Fresh Citrus, Deciduous Fruits, and Vegetables.
Claims use since June 8, 1938.

Ser. No. 416,993. BIRDSALL & WILCOX, New Haven, Conn. Filed Mar. 13, 1939.

BIRWIL

For Mayonnaise, Russian Dressing, Sandwich Spread, Tartar Sauce.
Claims use since Mar. 1, 1939.

Ser. No. 417,083. COLORADO MILLING & ELEVATOR CO., doing business as Farmers Flour Mills, Denver and Berthoud, Colo. Filed Mar. 15, 1939.

AGUILA DE GUERRA

For Wheat Flour.
Claims use since Aug. 30, 1935.

Ser. No. 417,087. FROSTKRAFT PACKING CORPORATION, San Francisco, Calif. Filed Mar. 15, 1939.

FROSTCRAFT

For Fresh Frozen Fruits, Berries, and Vegetables.
Claims use since Dec. 29, 1938.

Ser. No. 417,101. SALTED IN THE SHELL, INC., New York, N. Y. Filed Mar. 15, 1939.

Salt-eez

The word "Salt" is disclaimed apart from the mark.
For Peanuts Salted in the Shell.
Claims use since Mar. 10, 1939.

Ser. No. 417,211. THE FUJI TRADING CO., Chicago, Ill. Filed Mar. 18, 1939.

COOK'S MAGIC

For Molasses.
Claims use since Dec. 1, 1911.

Ser. No. 417,325. CHURCH & DWIGHT CO. INC., New York, N. Y. Filed Mar. 21, 1939. Under 10-year proviso.

CHURCH & CO'S

For Baking Soda for Use as an Ingredient in the Preparation of Foods.
Claims use since 1874.

Ser. No. 417,326. CHURCH & DWIGHT CO. INC., New York, N. Y. Filed Mar. 21, 1939. Under 10-year proviso.

DWIGHT'S

For Baking Soda for Use as an Ingredient in the Preparation of Foods.
Claims use since 1876.

Ser. No. 417,334. H. FRANKENTHAL, doing business as Frankenthal Company, Weslaco, Tex., and Sanger, Calif. Filed Mar. 21, 1939.

BANG-UP

For Fresh Fruits—Namely, Fresh Grapes.
Claims use since July 29, 1938.

Ser. No. 417,409. NESTRA PACKING COMPANY, Berkley, Mich. Filed Mar. 23, 1939.

HI-HI

For Dog Food.
Claims use since Feb. 11, 1937.

CLASS 47

Wines

Ser. No. 417,418. H. SICHEL & SONS, LIMITED, London, England. Filed Mar. 23, 1939.



For Wine.
Claims use since June 1, 1932.

CLASS 48

Malt Beverages and Liquors

Ser. No. 417,157. ARIZONA BREWING COMPANY, Phoenix, Ariz. Filed Mar. 17, 1939.

ElderBräu

No claim is made to the word "Brau" apart from the mark.
For Beer.
Claims use since Feb. 23, 1939.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 415,076. THE DISTILLERS AGENCY LIMITED, Edinburgh, Scotland. Filed Jan. 21, 1939.



All spoken symbols with the exception of the monogram and the name of applicant are disclaimed apart from the mark.
For Scotch Whisky.
Claims use since Sept. 30, 1895.

Ser. No. 417,861. GEORGE BENZ SONS, INC., St. Paul, Minn. Filed Apr. 5, 1939.

Dellwood

The drawing is lined for red.
For Whiskey.
Claims use since 1904.

Ser. No. 418,309. PALMER HOUSE COMPANY, Chicago, Ill. Filed Apr. 15, 1939.



For Whiskies, Domestic and Foreign, Brandies, Gins, Cordials, and Liqueurs.
Claims use since Apr. 1, 1937.

CLASS 50

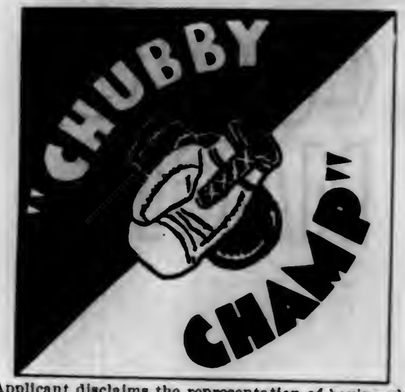
Merchandise Not Otherwise Classified

Ser. No. 412,490. BEHR-MANNING CORPORATION, Troy, N. Y. Filed Nov. 8, 1938.

CUSHION GRIP

No claim is made to the word "Cushion" apart from the mark.
For Fabric Treated with Non-Slipping Material for Use in Preventing Slipping of Rugs.
Claims use since Sept. 29, 1938.

Ser. No. 416,578. NATIONAL SALES COMPANY, Cleveland, Ohio. Filed Mar. 1, 1939.



Applicant disclaims the representation of boxing gloves.
For Miniature Boxing Gloves Intended for Use as a Talisman Charm or Trophy.
Claims use since Dec. 1, 1938.

Ser. No. 417,408. NAAMLOOZE VENNOOTSCHAP MAATSCHAPPIJ VOOR WASVERWERKING, Amersfoort, Netherlands. Filed Mar. 23, 1939.

VLIDO

For Fly-Catchers and Fly-Ribbons.
Claims use since July 1, 1933.

Ser. No. 417,617. HOGG MANUFACTURING CO., INC., New York, N. Y. Filed Mar. 29, 1939.

"SANI-POR."

For Caps for Bottles and Similar Liquid Containers.
Claims use since Mar. 27, 1939.

Ser. No. 417,641. COLUMBIA PRODUCTS CORPORATION, Brooklyn, N. Y. Filed Mar. 30, 1939.



The drawing is lined for red.
For Covers of Oil-Silk, Oil-Skin, and Flexible Fabrics for Bottles, Jars, and Bowls.
Claims use since Feb. 2, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 23, 1939

367,526. RUM. RIFA, BACARDI Y COMPAÑIA, Camagüey, Cuba.
Filed August 3, 1936. Under General Inter-American Convention for Trade-Mark and Commercial Protection of 1929. Serial No. 1,294 (Inter-American Series). PUBLISHED MARCH 7, 1939. Class 49.

367,527. WINDSHIELD WIPER BLADES OF THE SQUEEGEE TYPE. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed February 26, 1934. Serial No. 347,892. PUBLISHED MARCH 14, 1939. Class 19.

367,528. GRAPHITE. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 24, 1935. Serial No. 370,760. PUBLISHED DECEMBER 3, 1935. Class 1.

367,529. VENTILATING FANS, BLOWERS, AIR CONDITIONING UNITS, AND APPARATUS. THE VIKING AIR CONDITIONING CORPORATION, Cleveland, Ohio.
Filed January 23, 1936. Serial No. 374,030. PUBLISHED APRIL 28, 1936. Class 34.

367,530. ELASTIC HYDRO-COLLOID MATERIAL FOR USE IN TAKING DENTAL IMPRESSIONS. LEE S. SMITH & SON MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed August 20, 1936. Serial No. 382,398. PUBLISHED NOVEMBER 10, 1936. Class 44.

367,531. FUEL CONTROL VALVES. MORSE, LOCKHART & MORSE, INC., Boston, Mass.
Filed January 28, 1937. Serial No. 388,275. PUBLISHED APRIL 20, 1937. Class 13.

367,532. CHEESE. PURE MILK CHEESE CO., Elgin, Ill.
Filed March 5, 1937. Serial No. 389,695. PUBLISHED MARCH 14, 1939. Class 46.

367,533. ASTRINGENT LOTIONS, ACNE LOTIONS, ANTI-WEATHER CREAMS, ANTI-WRINKLE CREAMS, BLACKHEAD PAINTS, ETC. JANE SEYMOUR LIMITED, London, England.
Filed March 19, 1937. Serial No. 390,282. PUBLISHED MARCH 14, 1939. Class 6.

367,534. SEPARABLE SLIDE FASTENERS. CROWN FASTENER CORPORATION, Warren, R. I.
Filed April 12, 1937. Serial No. 391,207. PUBLISHED JULY 5, 1938. Class 13.

367,535. LINIMENT. A. J. PFLUGER, Brillion, Wis.
Filed August 30, 1937. Serial No. 396,930. PUBLISHED NOVEMBER 16, 1937. Class 6.

367,536. CHEMICALS, ESPECIALLY ESTERS OF FATTY ACIDS, METAL SOAPS SOLD AND USED AS CHEMICALS, PHARMACEUTICAL INTERMEDIATES, COSMETIC RAW MATERIALS. ERICH F. R. SCHUELKE, doing business as Colloid Chemical Laboratories, New York, N. Y.
Filed September 24, 1937. Serial No. 397,772. PUBLISHED MARCH 7, 1939. Class 6.

367,537. OILS USED IN THE MANUFACTURE OF PAINTS, VARNISHES, LACQUERS, PRINTING INKS, LINOLEUM, AND SYNTHETIC RESINS, AND HAVING THEIR INDUSTRIAL USES. ERICH F. R. SCHUELKE, doing business as Colloid Chemical Laboratories, New York, N. Y.
Filed September 24, 1937. Serial No. 397,773. PUBLISHED MARCH 14, 1939. Class 6.

367,538. LOTIONS SUITABLE FOR APPLICATION TO THE SKIN, AND FACE PACKS. THE IVIS COMPANY, INC., New York, N. Y.
Filed October 5, 1937. Serial No. 398,164. PUBLISHED MARCH 14, 1939. Class 6.

367,539. CANNED FRUITS AND VEGETABLES, TOMATO JUICE, CANNED PUMPKIN, CANNED PORK AND BEANS, CANNED SHRIMP AND CANNED OYSTERS, COFFEE, MAYONNAISE, MARSHMALLOWS, CANNED PIMIENTOS, CANNED FRUIT JUICES FOR FOOD PURPOSES, GELATIN DESSERT. HONORCO, INC., Chicago, Ill.
Filed November 24, 1937. Serial No. 400,103. PUBLISHED MARCH 14, 1939. Class 46.

367,540. COLD CAPSULES, LIVER PILLS, COUGH SYRUP, AND ANTISEPTIC SOLUTION. THE JEFFERIES COMPANY, Bluefield, W. Va.
Filed December 16, 1937. Serial No. 400,909. PUBLISHED MARCH 14, 1939. Class 6.

367,541. PLAYING CARDS. EDWARD J. BAKER, Stockton, Calif.
Filed December 18, 1937. Serial No. 401,013. PUBLISHED MARCH 14, 1939. Class 22.

367,542. PERMANENT WAVE LIQUIDS AND PREPARATIONS. RILLING-ARNAO COMPANY, Minneapolis, Minn.
Filed December 23, 1937. Serial No. 401,195. PUBLISHED MARCH 7, 1939. Class 6.

367,543. VEGETABLE COMPOUNDS FOR BLOOD AND NERVE MEDICINES. LYLE W. BURDICK, doing business as W. J. Burdick Medicine Co., Milwaukee, Wis.
Filed January 5, 1938. Serial No. 401,552. PUBLISHED MARCH 7, 1939. Class 6.

367,544. BAKING POWDER. TEMPLE STEPHENS CO., Moberly, Mo.
Filed March 21, 1938. Serial No. 404,332. PUBLISHED MARCH 14, 1939. Class 46.

367,545. TOOTH POWDER. FAN TAN COMPANY, INC., doing business as The Gold Star Tooth Powder Co., Chicago, Ill.
Filed March 26, 1938. Serial No. 404,518. PUBLISHED MARCH 7, 1939. Class 6.

367,546. SALVE FOR PILES. FOUAD A. ZRAICK, doing business as F. A. Zraick & Co., Brooklyn, N. Y.
Filed March 29, 1938. Serial No. 404,621. PUBLISHED MARCH 7, 1939. Class 6.

367,547. PREPARATIONS FOR TREATING THE NAILS. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn.
Filed April 26, 1938. Serial No. 405,712. PUBLISHED MARCH 14, 1939. Class 6.

367,548. FACT AND INTELLIGENCE TEST PUBLICATIONS ISSUED FROM TIME TO TIME. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed May 4, 1938. Serial No. 406,005. PUBLISHED MARCH 7, 1939. Class 38.

367,549. ALE. PITTSTON BREWING CORPORATION, Pittston, Pa.
Filed May 7, 1938. Serial No. 406,102. PUBLISHED MARCH 14, 1939. Class 48.

367,550. SPRAY COMPOUND FOR IMPROVING THE DISTRIBUTION OF INSECTICIDAL AND FUNGICIDAL SPRAYS ON VEGETATION. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed May 9, 1938. Serial No. 406,128. PUBLISHED MARCH 14, 1939. Class 6

367,551. ENGINES AND ENGINE PARTS. OSCO MOTORS CORPORATION, Philadelphia, Pa.
Filed June 10, 1938. Serial No. 407,324. PUBLISHED MARCH 14, 1939. Class 23.

367,552. OIL OF PEPPERMINT. FRITZSCHE BROTHERS, INC., New York, N. Y.
Filed July 1, 1938. Serial No. 408,096. PUBLISHED MARCH 7, 1939. Class 6.

367,553. OIL OF PEPPERMINT. FRITZSCHE BROTHERS, INC., New York, N. Y.
Filed July 1, 1938. Serial No. 408,097. PUBLISHED MARCH 7, 1939. Class 6.

367,554. OINTMENT USED IN THE TREATMENT OF ALL SKIN DISEASES, BURNS, SUNBURN, RHEUMATISM, THROAT INFECTION, HAY FEVER, ETC. WALTER S. MATTHEWS, De Funiak Springs, Fla.
Filed July 9, 1938. Serial No. 408,354. PUBLISHED MARCH 14, 1939. Class 6.

367,555. FOOT PREPARATION. HERB JUICE-PENOL COMPANY, INC., Danville, Va.
Filed July 11, 1938. Serial No. 408,485. PUBLISHED MARCH 14, 1939. Class 6.

367,556. FEED CONCENTRATE FOR STOCK. THE J. I. GATES MILLING COMPANY, Columbus, Ohio.
Filed July 18, 1938. Serial No. 408,602. PUBLISHED MARCH 14, 1939. Class 46.

367,557. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT, AND TANGERINES. MARIANA GROVE PACKERS, INC., Fort Myers, Fla.
Filed July 20, 1938. Serial No. 409,048. PUBLISHED MARCH 14, 1939. Class 46.

367,558. BUTANE AND LIQUEFIED GAS. BOSTICK BROTHERS, Benoit, Miss.
Filed August 8, 1938. Serial No. 409,342. PUBLISHED MARCH 7, 1939. Class 6.

367,559. HAIR TONIC, TOILET WATER, FACE AND TOILET CREAMS, AND PERFUMES. BIECKER & STEIN, Philadelphia, Pa.
Filed August 9, 1938. Serial No. 409,383. PUBLISHED MARCH 14, 1939. Class 6.

367,560. MONTHLY MAGAZINE. FLOYD HARRISON PUBLISHING CO., INC., New York, N. Y.
Filed August 12, 1938. Serial No. 409,520. PUBLISHED MARCH 7, 1939. Class 38.

367,561. PHARMACEUTICAL PREPARATION—NAMELY, AN ANALGESIC PREPARATION. THE IHLE-BELHARDT COMPANY, Seattle, Wash.
Filed August 16, 1938. Serial No. 409,648. PUBLISHED MARCH 14, 1939. Class 6.

367,562. PLAY SETS INCLUDING BALL AND BAT. THE SPONGE RUBBER PRODUCTS COMPANY, Derby, Conn.
Filed August 22, 1938. Serial No. 409,852. PUBLISHED MARCH 14, 1939. Class 22.

367,563. WINES. FRUIT INDUSTRIES, LTD., San Francisco, Calif., and New York, N. Y.
Filed September 12, 1938. Serial No. 410,464. PUBLISHED MARCH 14, 1939. Class 47.

367,564. FOUNDATION CREAMS, BEAUTY CREAMS, CREAM ROUGES, CLEANSING CREAMS, AND FACE POWDERS. ESTMONT COMPANY, Vermilion, Ohio.
Filed September 17, 1938. Serial No. 410,691. PUBLISHED MARCH 7, 1939. Class 6.

367,565. VERMIFUGE. CHARLES D. JORDAN, doing business as C. D. Jordan Laboratory, Monticello, Ga.
Filed September 21, 1938. Serial No. 410,839. PUBLISHED MARCH 14, 1939. Class 6.

367,566. DEHYDRATED CEREAL GRASSES, EXTRACTS OF CEREAL GRASSES, AND JUICE OF CEREAL GRASSES FOR USE IN CASES WHERE VITAMINS ARE INDICATED. AMERICAN DAIRIES, INCORPORATED, Kansas City, Mo.
Filed September 22, 1938. Serial No. 410,853. PUBLISHED MARCH 14, 1939. Class 6.

367,567. SHAMPOO. INDUSTRIAL SOAP CO., St. Louis, Mo.
Filed October 3, 1938. Serial No. 411,225. PUBLISHED DECEMBER 27, 1938. Class 6.

367,568. DISPENSING CONTAINERS AND THE LIKE FOR FLUENT SUBSTANCES. THE FOOD DISPENSER COMPANY, Hartford, Conn.
Filed October 10, 1938. Serial No. 411,449. PUBLISHED MARCH 7, 1939. Class 2.

367,569. INSECTICIDE. ALFRED TURMAN, New York, N. Y.
Filed October 10, 1938. Serial No. 411,474. PUBLISHED MARCH 7, 1939. Class 6.

367,570. CANNED DEVILED HAM, FRANKFURTS, SAUSAGES, CLAMS, CLAM CHOWDER, FISH CHOWDER, QUAHAUG CHOWDER, BEAN SOUP, PUREE MONGOLE, CONSOMME MADRILENE, CODFISH-CAKE MATERIAL, SARDINES, STEAMED PUDDING, DEVILED HAM IN GLASS JARS, CLAM JUICE IN BOTTLES. WILLIAM UNDERWOOD COMPANY, Watertown, Mass.
Filed October 11, 1938. Serial No. 411,513. PUBLISHED MARCH 14, 1939. Class 46.

367,571. SAUSAGE, HAM, LARD, BACON, EGGS, BUTTER, AND CHEESE; APPLES, PEARS, PEACHES, GRAPES, VINEGAR, AND POTATOES. MARY ORR BARBER, Everett, Ohio.
Filed October 13, 1938. Serial No. 411,565. PUBLISHED MARCH 14, 1939. Class 46.

367,572. COSMETICS AND TOILET PREPARATIONS—NAMELY, TOILET WATER, BATH SALTS, AND CREAMS. MISENTA PINE PRODUCTS, INC., Buffalo, N. Y.
Filed October 18, 1938. Serial No. 411,750. PUBLISHED MARCH 7, 1939. Class 6.

367,573. INSECTICIDAL SPRAYS. MABEL H. EMORY, doing business as The Rototox Company, East Williston, N. Y.
Filed October 24, 1938. Serial No. 411,989. PUBLISHED FEBRUARY 28, 1939. Class 6.

367,574. BEAUTY PRODUCTS FOR THE EYES, EYEBROWS, AND EYELASHES; ROUGE FOR THE LIPS, BEAUTY MILK FOR THE SKIN, ETC. LABORATOIRES VALDOR, SOCIÉTÉ À RESPONSABILITÉ LIMITÉE, Puteaux, France.
Filed October 26, 1938. Serial No. 412,079. PUBLISHED MARCH 7, 1939. Class 6.

367,575. PREPARATION IN LIQUID FORM TO BE USED IN CONJUNCTION WITH WOUND DRESSINGS, ALSO DOUCHES OR AS A GARGLE. HANS P. ULLRICH, Philadelphia, Pa.
Filed October 27, 1938. Serial No. 412,120. PUBLISHED MARCH 7, 1939. Class 6.

367,576. ANTISEPTIC MEDICATED AID IN RELIEF OF BURNS, CUTS, ITCHES, SORES. J. SAUL TEPPER, Baltimore, Md.
Filed October 31, 1938. Serial No. 412,235. PUBLISHED MARCH 14, 1939. Class 6.

367,577. COLLOIDAL PREPARATIONS FOR TREATING TEXTILES TO RENDER SAME WATER-REPELLANT. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed November 1, 1938. Serial No. 412,259. PUBLISHED MARCH 14, 1939. Class 6.

367,578. DERIVATIVES OF HEXAHYDRIC ALCOHOLS AND INNER ETHERS THEREOF. ATLAS POWDER COMPANY, Wilmington, Del.
Filed November 5, 1938. Serial No. 412,403. PUBLISHED MARCH 7, 1939. Class 6.

367,579. INFORMATION PAMPHLETS AND SPECIALLY RULED SHEETS FOR INCOME TAX DATA REQUIRED IN THE UNITED STATES AND POSSESSIONS. HARRY B. GASKELL, doing business as Automatic Bookkeeping Co., Long Beach, Calif.
Filed November 7, 1938. Serial No. 412,446. PUBLISHED MARCH 14, 1939. Class 37.

367,580. TOOTH PASTE. WORCESTER SALT COMPANY, New York, N. Y.
Filed November 10, 1938. Serial No. 412,621. PUBLISHED MARCH 27, 1939. Class 6.

367,581. METAL TREATING AGENTS ESPECIALLY AGENTS FOR PICKLING OR ETCHING. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed November 12, 1938. Serial No. 412,655. PUBLISHED MARCH 7, 1939. Class 6.

367,582. TOWELS. BOOTT MILLS, Lowell, Mass.
Filed November 15, 1938. Serial No. 412,752. PUBLISHED MARCH 14, 1939. Class 42.

367,583. LIQUID DENTIFRICE. CLAVIN, TUCKER & COMPANY, Chicago, Ill.
Filed November 15, 1938. Serial No. 412,754. PUBLISHED MARCH 14, 1939. Class 6.

367,584. COMPOUND FOR REMOVING SCALE, CARBON, AND SOOT FROM THE COMBUSTION SIDE OF BOILERS. ANDREW F. NORTON, doing business as Heating Equipment Service Company, New Britain, Conn.
Filed November 16, 1938. Serial No. 412,845. PUBLISHED MARCH 7, 1939. Class 6.

367,585. SILK, RAYON, WOOL, AND COTTON PIECE GOODS. SOCIÉTÉ ANONYME "LES TISSUS SORAY," Paris, France.
Filed November 17, 1938. Serial No. 412,880. PUBLISHED MARCH 14, 1939. Class 42.

367,586. MOLASSES. OELERICH & BERRY CO., Chicago, Ill.
Filed November 18, 1938. Serial No. 412,916. PUBLISHED MARCH 14, 1939. Class 46.

367,587. SMOKING TOBACCO. STUYVESANT CIGAR COMPANY, INCORPORATED, New York, N. Y.
Filed November 29, 1938. Serial No. 413,284. PUBLISHED MARCH 14, 1939. Class 17.

367,588. DOG FOOD, A COMPLETELY BALANCED RATION FOR ALL BREEDS OF DOGS AND PUPPIES, WHICH SUPPLIES ALL VITAMINS AND REQUIRES NO COOKING. A. E. STEWART AND M. H. STEWART, doing business as Graino Feed Mills, Greensboro, N. C.
Filed December 1, 1938. Serial No. 413,343. PUBLISHED FEBRUARY 21, 1939. Class 46.

367,589. PREPARATION FOR THE TREATMENT OF DYSPEPSIA, INDIGESTION, HEARTBURN, BILIOUSNESS, CONSTIPATION, AND SIMILAR AILMENTS. RADWAY & CO., INC., New York, N. Y.
Filed December 1, 1938. Serial No. 413,363. PUBLISHED MARCH 14, 1939. Class 6.

367,590. COFFEE, CHOCOLATE, AND COCOA. GREAT STAR COFFEE CORPORATION, New York, N. Y.
Filed December 5, 1938. Serial No. 413,527. PUBLISHED MARCH 14, 1939. Class 46.

367,591. CARBON REMOVING COMPOUND. THE ZIP ABRASIVE COMPANY, Cleveland, Ohio.
Filed December 6, 1938. Serial No. 413,531. PUBLISHED MARCH 7, 1939. Class 6.

367,592. COLON LUBRICATING AND BODY WEIGHT CONTROL PREPARATION. NATHAN SCHULMAN, doing business as Naturway Products Co., Long Beach, Calif.
Filed December 8, 1938. Serial No. 413,595. PUBLISHED MARCH 7, 1939. Class 6.

367,593. TOMATO JUICE. A. STRASBERG, doing business as Mother Asther's Own Farm, East Stroudsburg, Pa.
Filed December 9, 1938. Serial No. 413,653. PUBLISHED MARCH 14, 1939. Class 46.

367,594. WINES. BISCEGLIA BROTHERS CORP., Philadelphia, Pa.
Filed December 12, 1938. Serial No. 413,700. PUBLISHED MARCH 14, 1939. Class 47.

367,595. MAGAZINE SECTION. MEREDITH PUBLISHING COMPANY, Des Moines, Iowa.
Filed December 12, 1938. Serial No. 413,727. PUBLISHED MARCH 7, 1939. Class 38.

367,596. SHOE STRING POTATOES. ALEX ROSENTHAL, doing business as Atlantic Food Packing Co., Trenton, N. J.
Filed December 12, 1938. Serial No. 413,739. PUBLISHED MARCH 14, 1939. Class 46.

367,597. GAME OF CHANCE CONSISTING OF AN ELECTRICALLY OPERATED WHEEL AND INDICATING PLAYING ACCESSORIES. OLIVER THOMAS, also doing business as Buzzo Sales Co., San Antonio, Tex.
Filed December 12, 1938. Serial No. 413,745. PUBLISHED MARCH 14, 1939. Class 22.

367,598. WOODEN FIGURE TOYS. SIMON GLICKMAN, doing business as Steppin Sam Company, Philadelphia, Pa.
Filed December 14, 1938. Serial No. 413,826. PUBLISHED MARCH 14, 1939. Class 22.

367,599. KNITTED CLOTH PIECE GOODS OF RAYON, COTTON, SILK, AND SYNTHETIC FIBERS. DYERSBURG COTTON PRODUCTS, INC., Dyersburg, Tenn.
Filed December 17, 1938. Serial No. 413,931. PUBLISHED MARCH 14, 1939. Class 42.

367,600. LIPSTICKS. CLARK-MILLNER CO., Chicago, Ill.
Filed December 19, 1938. Serial No. 413,976. PUBLISHED MARCH 7, 1939. Class 6.

367,601. LIPSTICKS. CLARK-MILLNER CO., Chicago, Ill.
Filed December 19, 1938. Serial No. 413,978. PUBLISHED MARCH 7, 1939. Class 6.

367,602. MAGAZINE PUBLISHED MONTHLY. WALTER KAHOE, Yellow Springs, Ohio.
Filed December 19, 1938. Serial No. 413,992. PUBLISHED MARCH 7, 1939. Class 38.

367,603. COAL TAR COLORS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed December 19, 1938. Serial No. 414,013. PUBLISHED MARCH 7, 1939. Class 6.

367,604. MONTHLY PUBLICATION DEVOTED TO TELEVISION AND THE LIKE. BRYAN DAVIS PUBLISHING COMPANY, INC., New York, N. Y.
Filed December 22, 1938. Serial No. 414,094. PUBLISHED MARCH 7, 1939. Class 38.

367,605. SOLVENTS FOR DYESTUFFS AND FOR USE IN OIL REFINING. CARBIDE AND CARBON CHEMICALS CORPORATION, New York, N. Y.
Filed December 22, 1938. Serial No. 414,095. PUBLISHED MARCH 7, 1939. Class 6.

367,606. METAL CANS. GEO. V. CLARK CO., INC., Long Island City, N. Y.
Filed December 22, 1938. Serial No. 414,096. PUBLISHED MARCH 7, 1939. Class 2.

367,607. INSECTICIDE. THOMAS ROTOBAC COMPANY, Chadbourn, N. C.
Filed December 22, 1938. Serial No. 414,122. PUBLISHED MARCH 7, 1939. Class 6.

367,608. PREPARATION OF VITAMINS AND MINERALS FOR USE IN CASES WHERE HIGH POTENCIES OF VITAMINS INTAKE IS INDICATED. DIETETIC RESEARCH LABORATORIES, INC., Bloomfield, N. J.
Filed December 23, 1938. Serial No. 414,143. PUBLISHED MARCH 14, 1939. Class 6.

367,609. ALCOHOLIC LIQUEURS. DISTILLERIE DE LA SUZE (SOCIÉTÉ ANONYME), Maisons-Alfort, France.
Filed December 24, 1938. Serial No. 414,183. PUBLISHED MARCH 14, 1939. Class 49.

367,610. OSMOTHERAPEUTIC TREATMENT OF EAR DISEASES—EAR DROPS. THE DOHO CHEMICAL CORPORATION, New York, N. Y.
Filed December 24, 1938. Serial No. 414,185. PUBLISHED MARCH 7, 1939. Class 6.

367,611. MAGAZINES. POPULAR SCIENCE PUBLISHING CO., INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,207. PUBLISHED MARCH 7, 1939. Class 38.

367,612. PAPER BAGS. BEMIS BRO. BAG CO., St. Louis, Mo.
Filed December 27, 1938. Serial No. 414,213. PUBLISHED FEBRUARY 28, 1939. Class 2.

367,613. WOOLEN PIECE GOODS. ALEXANDER WOOLEN COMPANY, Chicago, Ill.
Filed December 28, 1938. Serial No. 414,250. PUBLISHED MARCH 14, 1939. Class 42.

367,614. HAIR DYE REMOVERS AND HAIR COLOR REMOVERS. CLAIROL, INC., New York, N. Y.
Filed December 29, 1938. Serial No. 414,287. PUBLISHED MARCH 14, 1939. Class 6.

367,615. LEAFLETS AND PAMPHLETS CONTAINING SUBJECT-MATTER OF A RELIGIOUS CHARACACTER, PUBLISHED FROM TIME TO TIME. NICHOLAS JOSEPH ROCCAFORTE, Wichita, Kans.
Filed December 21, 1938. Serial No. 414,318. PUBLISHED MARCH 7, 1939. Class 38.

367,616. PERIODICAL. HAYWOOD PUBLISHING COMPANY, La Fayette, Ind., and Chicago, Ill.
Filed December 30, 1938. Serial No. 414,349. PUBLISHED MARCH 7, 1939. Class 38.

367,617. CARBON BLACK HAVING A VARIETY OF USES IN THE INDUSTRIAL ARTS. CONTINENTAL CARBON COMPANY, New York, N. Y.
Filed December 30, 1938. Serial No. 414,383. PUBLISHED MARCH 14, 1939. Class 6.

367,618. SYNTHETIC TEXTILE FINISHING AGENT. HERCULES POWDER COMPANY, Wilmington, Del.
Filed December 31, 1938. Serial No. 414,402. PUBLISHED MARCH 14, 1939. Class 6.

367,619. FLOUR, PARTICULARLY WHEAT FLOUR. GENERAL MILLS, INC., Minneapolis, Minn.
Filed January 3, 1939. Serial No. 414,443. PUBLISHED MARCH 14, 1939. Class 46.

367,620. LIQUID BODY DEODORANT FOR EXTERNAL USE. ALICE M. GERMAIN, doing business as Axilene Co., Boston, Mass.
Filed January 3, 1939. Serial No. 414,445. PUBLISHED MARCH 7, 1939. Class 6.

367,621. SOLDERING PASTE AND FOR SOLDERING FLUX IN STICK FORM. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed January 4, 1939. Serial No. 414,494. PUBLISHED MARCH 14, 1939. Class 6.

367,622. HAIR DRESSING. NEWBRO MANUFACTURING COMPANY, Atlanta, Ga.
Filed January 4, 1939. Serial No. 414,502. PUBLISHED MARCH 14, 1939. Class 6.

367,623. EFFERVESCENT REMINERALIZING DENTIFRICE. MAX A. LOVE, doing business as Goodrich & Love, New York, N. Y.
Filed January 6, 1939. Serial No. 414,571. PUBLISHED MARCH 14, 1939. Class 6.

367,624. SUB-IRRIGATED CONTAINERS FOR HOLDING SEEDS AND PLANTS TO BE TRANSPLANTED. BUCK BROS., doing business as Waterite Seed Flat Co., Middletown, N. Y.
Filed January 7, 1939. Serial No. 414,589. PUBLISHED MARCH 7, 1939. Class 2.

367,625. LEATHER. B. D. EISENDRATH TANNING COMPANY, Chicago, Ill.
Filed January 7, 1939. Serial No. 414,596. PUBLISHED MARCH 14, 1939. Class 1.

367,626. LADIES' PURSES, HANDBAGS, AND POCKETBOOKS. HARRY ROSENFELD INC., New York, N. Y.
Filed January 7, 1939. Serial No. 414,604. PUBLISHED MARCH 7, 1939. Class 3.

367,627. NEWSPAPER SECTION. DAILY MIRROR, INC., New York, N. Y.
Filed January 9, 1939. Serial No. 414,626. PUBLISHED MARCH 7, 1939. Class 38.

367,628. WASHING AND SCOURING AGENT FOR TEXTILE FABRICS. GENERAL DYESTUFF CORPORATION, New York, N. Y.
Filed January 10, 1939. Serial No. 414,656. PUBLISHED MARCH 14, 1939. Class 4.

367,629. PIECE GOODS OF COTTON, LINEN, CRASH, AND COMBINATIONS THEREOF. HERENDEEN-AVERY, INC., Miami, Fla.
Filed January 10, 1939. Serial No. 414,659. PUBLISHED MARCH 14, 1939. Class 42.

367,630. PERIODICAL. HUMAN RELATIONS, INC., Chicago, Ill.
Filed January 10, 1939. Serial No. 414,661. PUBLISHED MARCH 7, 1939. Class 38.

367,631. NEWSPAPER AND A MAGAZINE AND A SECTION OF A MAGAZINE. AMERICAN BANKER, INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,718. PUBLISHED MARCH 7, 1939. Class 38.

367,632. GRO-CHAIR FOR FURNITURE—NAMELY, JUVENILE CHAIRS. HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis.
Filed January 12, 1939. Serial No. 414,735. PUBLISHED MARCH 14, 1939. Class 32.

367,633. MEDICAL PREPARATION FOR INTERNAL ADMINISTRATION FOR TREATING CONSTIPATION. ELVIN LINDON, doing business as E. L-Vim Mfg. Co., Cincinnati, Ohio.
Filed January 12, 1939. Serial No. 414,745. PUBLISHED MARCH 7, 1939. Class 6.

367,634. WOOLEN AND WOOL MIXTURE FABRICS IN THE PIECE. LINKER & HERBERT, INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,746. PUBLISHED MARCH 14, 1939. Class 42.

367,635. NEWS COLUMN AND SPECIAL ARTICLES APPEARING DAILY OR FROM TIME TO TIME. ELEANOR MEDILL PATTERSON, doing business as Patterson Newspapers and/or Washington Herald-Times, Washington, D. C.
Filed January 12, 1939. Serial No. 414,752. PUBLISHED MARCH 7, 1939. Class 38.

367,636. CANNED SOUPS. SCHUCKL & CO., INC., San Francisco, Calif.
Filed January 13, 1939. Serial No. 414,803. PUBLISHED MARCH 14, 1939. Class 46.

367,637. PERFUMES, FACE CREAMS, TOILET WATER, ROUGES, LIPSTICKS, DENTIFRICES, FACE POWDER, TALCUM POWDER, AND BRILLIANTINE. DANA, S. A., Paris, France.
Filed January 14, 1939. Serial No. 414,822. PUBLISHED MARCH 14, 1939. Class 6.

367,638. PISTON PINS, PISTON EXPANDERS, ENGINE BEARINGS, ENGINE BEARING INSERTS, AND OTHER INTERNAL COMBUSTION ENGINE PARTS. SIMPLEX PRODUCTS CORPORATION, Cleveland, Ohio.
Filed January 14, 1939. Serial No. 414,839. PUBLISHED MARCH 14, 1939. Class 23.

367,639. PISTON PINS, PISTON EXPANDERS, ENGINE BEARINGS, ENGINE BEARING INSERTS, AND OTHER INTERNAL COMBUSTION ENGINE PARTS. SIMPLEX PRODUCTS CORPORATION, Cleveland, Ohio.
Filed January 14, 1939. Serial No. 414,840. PUBLISHED MARCH 14, 1939. Class 23.

367,640. PERFUMES, TOILET WATERS, LOTION FOR THE FACE AND HANDS, FACE POWDER, ROUGE, BRILLIANTINE, TALCUM POWDER, EAU DE COLOGNE, SACHET POWDER, AND SKIN CREAM. SOCIETE ANONYME GRENOVILLE, Asnieres (Seine), France.
Filed January 14, 1939. Serial No. 414,841. PUBLISHED MARCH 14, 1939. Class 6.

367,641. PERFUMES, TOILET WATERS, LOTION FOR THE FACE AND HANDS, FACE POWDER, ROUGE, BRILLIANTINE, TALCUM POWDER, EAU DE COLOGNE, SACHET POWDER, AND SKIN CREAM. SOCIETE ANONYME GRENOVILLE, Asnieres (Seine), France.
Filed January 14, 1939. Serial No. 414,842. PUBLISHED MARCH 14, 1939. Class 6.

367,642. TOOTHPASTE. STANLEY C. BROWN, Ithaca, Mich.
Filed January 16, 1939. Serial No. 414,858. PUBLISHED MARCH 14, 1939. Class 6.

367,643. SUN GLASSES. NEW ERA OPTICAL COMPANY, also doing business as Midland Optical Company, Chicago, Ill.
Filed January 16, 1939. Serial No. 414,885. PUBLISHED MARCH 14, 1939. Class 26.

367,644. REFRIGERATED CABINETS. THE CHARLES Q. SHERMAN CORPORATION, New York, N. Y.
Filed January 16, 1939. Serial No. 414,906. PUBLISHED MARCH 14, 1939. Class 31.

367,645. VEGETABLE OIL SHORTENING. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex.
Filed January 19, 1939. Serial No. 415,000. PUBLISHED MARCH 14, 1939. Class 46.

367,646. TOILET TISSUE PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed January 20, 1939. Serial No. 415,067. PUBLISHED MARCH 14, 1939. Class 37.

367,647. TOILET TISSUE PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed January 20, 1939. Serial No. 415,068. PUBLISHED MARCH 14, 1939. Class 37.

367,648. MEDICATED TABLETS FOR HUMAN USE IN THE TREATMENT OF MENOPAUSAL AILMENTS. CLINICAL PRODUCTS LIMITED, London, England.
Filed January 19, 1939. Serial No. 415,095. PUBLISHED MARCH 7, 1939. Class 6.

367,649. WHISKEY. ABRAM SMITH BOWMAN, doing business as A. Smith Bowman Distillery, Sunset Hills, Va.
Filed January 23, 1939. Serial No. 415,105. PUBLISHED MARCH 14, 1939. Class 49.

367,650. ARTIFICIAL FISHING LURES AND HOOKS. ELM CYCLE & AUTO SUPPLY CO., Westfield, Mass.
Filed January 23, 1939. Serial No. 415,112. PUBLISHED MARCH 14, 1939. Class 22.

367,651. RABBIT ANTIPNEUMOCOCCIC SERUM, TYPE I. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed January 23, 1939. Serial No. 415,129. PUBLISHED MARCH 14, 1939. Class 6.

367,652. RABBIT ANTIPNEUMOCOCCIC SERUM, TYPE II. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed January 23, 1939. Serial No. 415,130. PUBLISHED MARCH 14, 1939. Class 6.

367,653. PAPER NAPKINS. MENASHA PRODUCTS COMPANY, Menasha, Wis.
Filed January 23, 1939. Serial No. 415,132. PUBLISHED MARCH 14, 1939. Class 37.

367,654. RUBBER TIRES. OLIVER TIRE & RUBBER COMPANY, Oakland, Calif.
Filed January 23, 1939. Serial No. 415,136. PUBLISHED MARCH 14, 1939. Class 35.

367,655. KRAFT PAPER. CHESAPEAKE-CAMP CORPORATION, Franklin, Va.
Filed January 24, 1939. Serial No. 415,157. PUBLISHED MARCH 14, 1939. Class 37.

367,656. TONIC FOR THE SCALP. MIKE DROSSINOS, Brooklyn, N. Y.
Filed January 24, 1939. Serial No. 415,159. PUBLISHED MARCH 14, 1939. Class 6.

367,657. CHOCOLATES. MILLER & HOLLIS, INC., Boston, Mass.
Filed January 24, 1939. Serial No. 415,177. PUBLISHED MARCH 14, 1939. Class 46.

367,658. CHOCOLATES. MILLER & HOLLIS, INC., Boston, Mass.
Filed January 24, 1939. Serial No. 415,179. PUBLISHED MARCH 14, 1939. Class 46.

367,659. NONALCOHOLIC GRAPEFRUIT DRINK, AND BASES AND SYRUPS AND EXTRACTS FOR MAKING SAME. THE SQUIRT COMPANY, Glendale, Ariz., and Milwaukee, Wis.
Filed January 24, 1939. Serial No. 415,203. PUBLISHED MARCH 14, 1939. Class 45.

367,660. PAPER FOR AUTOGRAPHIC REGISTERS. AUTOGRAPHIC REGISTER COMPANY, Hoboken, N. J.
Filed January 25, 1939. Serial No. 415,209. PUBLISHED MARCH 14, 1939. Class 37.

367,661. ART PAPERS. BERMINGHAM & PROSSER CO., Chicago, Ill.
Filed January 26, 1939. Serial No. 415,240. PUBLISHED MARCH 14, 1939. Class 37.

367,662. TOBACCO SEED. J. W. BELL & SONS, Paris, Ky.
Filed January 26, 1939. Serial No. 415,241. PUBLISHED MARCH 14, 1939. Class 1.

367,663. CHEESE. RHEINGOLD CHEESE COMPANY, Chicago, Ill.
Filed January 26, 1939. Serial No. 415,258. PUBLISHED MARCH 14, 1939. Class 46.

367,664. WRAPPING PAPER. RIEGEL PAPER CORPORATION, Riegelsville, N. J., and New York, N. Y.
Filed January 26, 1939. Serial No. 415,259. PUBLISHED MARCH 14, 1939. Class 37.

367,665. FOUNDRY PARTINGS. AGICIDE LABORATORIES, Milwaukee, Wis.
Filed January 27, 1939. Serial No. 415,279. PUBLISHED MARCH 14, 1939. Class 1.

367,666. INSECTCIDES USED ON DOMESTIC ANIMALS. GEORGE A. MORTY COMPANY, Miami, Fla.
Filed January 27, 1939. Serial No. 415,300. PUBLISHED MARCH 14, 1939. Class 6.

367,667. CIGARS. JOHN TORNEY, Elmhurst, N. Y.
Filed January 27, 1939. Serial No. 415,313. PUBLISHED MARCH 14, 1939. Class 17.

367,668. RUM. HERCULES LIQUOR PRODUCTS CORP., Brooklyn, N. Y.
Filed January 30, 1939. Serial No. 415,390. PUBLISHED MARCH 14, 1939. Class 49.

367,669. FURNITURE SLIP COVERS. JORDAN MILLS, INC., Columbus, Ga.
Filed January 30, 1939. Serial No. 415,398. PUBLISHED MARCH 14, 1939. Class 32.

367,670. MODEL AIRPLANES. BURD MODEL AIRPLANE COMPANY, Baltimore, Md.
Filed January 31, 1939. Serial No. 415,442. PUBLISHED MARCH 14, 1939. Class 22.

367,671. GAME TO BE PLAYED WITH QUOITS. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 1, 1939. Serial No. 415,474. PUBLISHED MARCH 14, 1939. Class 22.

367,672. SKIN DRESSING. THE BENJAMIN ANSEHL COMPANY, St. Louis, Mo.
Filed February 2, 1939. Serial No. 415,491. PUBLISHED MARCH 14, 1939. Class 6.

367,673. INSECTICIDES. MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa.
Filed February 3, 1939. Serial No. 415,556. PUBLISHED MARCH 14, 1939. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

367,674. (CLASS 39. CLOTHING.) KOLLINER ST. CROIX GARMENT COMPANY, Stillwater, Minn. Filed Apr. 1, 1936. Serial No. 376,706.

SNOW-PUTTS

For Outer Garments for Covering the Legs in the Form of Ski Pants and Separate Ski Pant Legs.
Claims use since Feb. 7, 1936.

367,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RAY METZ, Monte Vista, Colo. Filed July 9, 1937. Serial No. 395,043.

COLORADO TOP QUALITY



GROWN A'TOP THE WORLD

For Potatoes.
Claims use since June 25, 1936.

367,676. (CLASS 38. PRINTS AND PUBLICATIONS.) POLYFOTO CORPORATION, Bridgeport, Conn. Filed Dec. 14, 1937. Serial No. 400,853.

Wilton

For Photographs.
Claims use since Dec. 1, 1937.

367,677. (CLASS 39. CLOTHING.) DEL MONTE-HICKEY COMPANY, INC., New York, N. Y. Filed Mar. 7, 1938. Serial No. 403,759.

"Lorenzo-Brown"

For Women's and Misses' Coats, Suits, Dresses, Blouses, and Skirts.
Claims use since Feb. 28, 1938.

367,678. (CLASS 39. CLOTHING.) VAN BAALEN, HEILBRUN & Co., New York, N. Y. Filed Apr. 2, 1938. Serial No. 404,823.

Paul Paget

For Men's Robes.
Claims use since November, 1937.

367,679. (CLASS 39. CLOTHING.) RICE-FRIEDMAN CO., Milwaukee, Wis. Filed Apr. 8, 1938. Serial No. 405,039.

KANAJUST

For Men's and Boys' Clothing—Namely, Suits, Overcoats and Topcoats, Mackinaws, Jackets, and Pants.
Claims use since Mar. 31, 1938.

367,680. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) HOUSE OF GURNEY, INC., Yankton, S. Dak. Filed Apr. 14, 1938. Serial No. 405,256.

GURNEY'S RED WINTER WEALTHY

For Nursery Stock—Namely, Apple Trees.
Claims use since Mar. 15, 1938.

367,681. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE MOXIE COMPANY, Boston, Mass. Filed Apr. 15, 1938. Serial No. 405,310.

SIX PAK

For Non-Alcoholic, Maltless Carbonated Beverages.
Claims use since Apr. 6, 1938.

367,682. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FOSTER GRANT CO. INC., Leominster, Mass. Filed Apr. 19, 1938. Serial No. 405,435.

EYE-EZ

For Goggles and Sun Glasses.
Claims use since Apr. 6, 1938.

367,683. (CLASS 39. CLOTHING.) STANDARD ROMPER CO., INC., New York, N. Y. Filed May 5, 1938. Serial No. 406,034.

Healthe Lord

For Children's Clothing—Namely, Boys' Suits, Overalls, Playsuits, Coats, Polo Shirts, and Pants.
Claims use since Feb. 25, 1938.

367,684. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLARENCE S. BROWN & COMPANY, INC., New York, N. Y. Filed May 9, 1938. Serial No. 406,116.

Everstai-Dri

For Cotton Piece Goods.
Claims use since Mar. 31, 1938.

367,685. (CLASS 39. CLOTHING.) DAVIDSON BROS., New York, N. Y. Filed May 18, 1938. Serial No. 406,444.

Mary Barron

For Ladies' Slips.
Claims use since April, 1938.

367,686. (CLASS 39. CLOTHING.) LEVY BROS. & ADLER ROCHESTER, INCORPORATED, Rochester, N. Y. Filed June 8, 1938. Serial No. 407,227.

Delhi Gabardine

For Men's and Boys' Suits.
Claims use since Apr. 11, 1938.

367,687. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) W. & H. JEWELRY COMPANY, Providence, R. I. Filed June 20, 1938. Serial No. 407,701.

HARWOOD

For Watch Chains, Tie Chains, Key Chains, Bracelets, Cuff Links, Scarf Pins, Collar Holders, Brooches, Finger Rings, Lockets, Crosses, Pendants; and the Following Articles Made in Whole or in Part of Precious Metal or Plated with Same; Compacts, Chains, Wrist Watch Straps, Collar Buttons, Pins, Cigar Cases, Cigarette Cases, and Hand Bags.
Claims use since Apr. 1, 1937.

367,688. (CLASS 2. RECEPTACLES.) F. H. HILL COMPANY, INC., Cleveland, Ohio. Filed July 1, 1938. Serial No. 408,109.

CREMONA

For Burial Caskets.
Claims use since Apr. 11, 1938.

367,689. (CLASS 2. RECEPTACLES.) WAPLES PLATTER COMPANY, Fort Worth, Tex. Filed July 19, 1938. Serial No. 408,673.

KEE-LOCK

For Wooden Cases for Holding Beverage Bottles.
Claims use since Apr. 14, 1938.

367,690. (CLASS 39. CLOTHING.) BROWNSTEIN-LOUIS CO., Los Angeles, Calif. Filed July 29, 1938. Serial No. 409,028.

Zipup

For Men's, Women's, and Children's One Piece Play Suits.
Claims use since Mar. 25, 1938.

367,691. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARRY L. SHEINMAN & SONS INC., New York, N. Y. Filed Aug. 13, 1938. Serial No. 409,594.

Calais

For Fabrics in the Piece of Silk, Cotton, Wool, or Rayon.
Claims use since January, 1933.

367,692. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHEMICAL INDUSTRIES, San Francisco, Calif. Filed Sept. 6, 1938. Serial No. 410,288.

KWIK GLOV-WASH

For Liquid Preparations for Cleaning Leather and Fabric Gloves, Suede Bags, Suede Shoes and Hosiery.
Claims use since Nov. 1, 1936.

367,693. (CLASS 12. CONSTRUCTION MATERIALS.) THE ROMIG CLAY PRODUCT COMPANY, Uhrichsville, Ohio. Filed Sept. 12, 1938. Serial No. 410,486.

TRU-FIT

For Clay Sewer Pipe.
Claims use since April 1, 1938.

367,694. (CLASS 39. CLOTHING.) J. & J. SPAR, INC., New York, N. Y. Filed Nov. 25, 1938. Serial No. 413,156.

NAN Tailor

For Women's and Misses' Dresses.
Claims use since Dec. 5, 1937.

367,695. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) JOSEPH H. GROSS, doing business as J. H. Gross & Co., Cleveland, Ohio. Filed Dec. 2, 1938. Serial No. 413,405.

GROSS-ART

For Pendants, Bracelets, Rings, Earrings, and Other Ornaments in the Nature of Jewelry, Not Including Watches.
Claims use since Sept. 1, 1934.

367,696. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y. Filed Dec. 19, 1938. Serial No. 414,011.

LITTLE OLD NEW YORK

For Crepe Piece Goods of Silk and/or Artificial Silk.
Claims use since 1928.

367,697. (CLASS 39. CLOTHING.) GEORGE F. HOLDREN, Phillipsburg, Pa. Filed Dec. 23, 1938. Serial No. 414,151.

NO SAG KUFF STAY KREASE

For Men's Trousers and Overalls.
Claims use since Oct. 1, 1936.

367,698. (CLASS 12. CONSTRUCTION MATERIALS.) THE INSULITE COMPANY, Minneapolis, Minn. Filed Dec. 29, 1938. Serial No. 414,321.

WALL OF PROTECTION

For Fiber Insulation Material Used as Sheathing, Plaster Base and Insulation.
Claims use since June, 1934.

367,699. (CLASS 39. CLOTHING.) SAM GERSON, Philadelphia, Pa. Filed Dec. 30, 1938. Serial No. 414,343.

British Guild
STYLED IN LONDON
for
Sam GERSON
PHILADELPHIA

For Men's Suits and Overcoats.
Claims use since Nov. 15, 1937.

367,700. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NOBLITT-SPARKS INDUSTRIES, INC., Columbus, Ind. Filed Jan. 12, 1939. Serial No. 414,751.

ARVIN

For Vehicle Heaters Using Hot Fluids from the Engine.
Claims use since May 15, 1922.

367,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS S. KEHIAS, Mattoon, Ill. Filed Jan. 19, 1939. Serial No. 415,005.



For Candy.
Claims use since Dec. 1, 1937.

367,702. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COMMONWEALTH VARNISH COMPANY, Chicago, Ill. Filed Jan. 30, 1939. Serial No. 415,381.

LEATHERSEAL

For Varnishes and Japans.
Claims use since Mar. 1, 1918.

367,703. (CLASS 39. CLOTHING.) THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo., and St. Louis, Mo. Filed Feb. 7, 1939. Serial No. 415,730.

Mount Royale

For Men's and Boys' Negligee, Dress, and Sport Shirts, and Pajamas.
Claims use since Aug. 29, 1932.

367,704. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE FULLER BRUSH COMPANY, Hartford, Conn. Filed Feb. 9, 1939. Serial No. 415,927.

FULLUSTRE

For Floor Polish.
Claims use since Oct. 3, 1935.

367,705. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KENT, LEHR & FITCH, INC., New York, N. Y. Filed Feb. 13, 1939. Serial No. 415,988.

CAPRI VOILE

For Rayon Textiles in the Piece and Window Curtains or Drapes Made of Such Materials.
Claims use since Jan. 1, 1933.

367,706. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HENRY L. SCOTT COMPANY, Providence, R. I. Filed Feb. 14, 1939. Serial No. 416,018.

INCLINE PLANE

For Tension, Compression, and Fatigue Testing Machines.
Claims use since Mar. 27, 1930.

367,707. (CLASS 39. CLOTHING.) TRIUMPH HOSIERY MILLS, INC., New York, N. Y. Filed Feb. 15, 1939. Serial No. 416,077.

NEEDLE'S EYE MESH

For Hosiery.
Claims use since Jan. 1, 1930.

367,708. (CLASS 39. CLOTHING.) TRIUMPH HOSIERY MILLS, INC., New York, N. Y. Filed Feb. 15, 1939. Serial No. 416,078.

SEED PEARL MESH

For Hosiery.
Claims use since Jan. 1, 1930.

367,709. (CLASS 39. CLOTHING.) I. SCHNEIERSON & SONS, INC., New York, N. Y. Filed Feb. 16, 1939. Serial No. 416,114.

Loom-Satin

For Ladies' Chemises, Princess Slips, Bloomers, Step-Ins, and Nightgowns of a Textile Fabric.
Claims use since Dec. 16, 1937.

367,710. (CLASS 39. CLOTHING.) TURNER MANUFACTURING COMPANY, Chattanooga, Tenn. Filed Feb. 16, 1939. Serial No. 416,223.

TURNER WEAR

For Outer Shirts, Pants, Jackets, Dresses, for Men, Women, Boys, and Girls.
Claims use since Sept. 4, 1930.

367,711. (CLASS 39. CLOTHING.) RUDLEY SPORTSWEAR, INC., New York, N. Y. Filed Feb. 21, 1939. Serial No. 416,296.

HAVANA BOLERO

For Women's Jackets, Suits, Skirts, Jiggers, Toppers, Boleros, Bolero Suits, Beachwear—Namely, Two and Three Piece Women's Slack Suits, and Slacks.
Claims use since Dec. 9, 1937.

367,712. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE METAKSA, New York, N. Y. Filed Mar. 3, 1939. Serial No. 416,652.

METAKSA

For Furniture Polish.
Claims use since Feb. 20, 1938.

367,713. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) BALDWIN LIQUORS CORPORATION, New York, N. Y. Filed Mar. 13, 1939. Serial No. 416,987.

BARDSLEY

For Whiskeys, Brandies, Gins, and Cordials.
Claims use since Jan. 3, 1937.

367,714. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) BALDWIN LIQUORS CORPORATION, New York, N. Y. Filed Mar. 13, 1939. Serial No. 416,989.

Paul Nevins

For Whiskeys, Brandies, Gins, and Cordials.
Claims use since Feb. 1, 1937.

367,715. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) BALDWIN LIQUORS CORPORATION, New York, N. Y. Filed Mar. 13, 1939. Serial No. 416,990.

PIERRE DURAND

For Cognac, Whiskeys, Brandies, Gins, and Cordials.
Claims use since Jan. 3, 1937.

TRADE-MARK REGISTRATIONS RENEWED

125,232. **ACLOTAN.** LEATHER. Registered April 22, 1919. A. C. LAWRENCE LEATHER CO., Boston, Mass. Renewed April 22, 1939, to A. C. Lawrence Leather Company, Peabody, Mass., a corporation of Maine.

125,556. **I CUT KEEN.** CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. Registered May 27, 1919. A. BALDWIN & CO., LIMITED. Renewed May 27, 1939, to A. Baldwin & Company, Inc., New Orleans, La., a corporation of Louisiana, successor.

125,861. **LA FRANCE.** CERTAIN NAMED FIRE APPARATUS. Registered June 24, 1919. AMERICAN LA FRANCE FIRE ENGINE COMPANY, INC. Renewed June 24, 1939, to AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y., a corporation of New York, assignee.

126,168. **A HEART FIGURE.** ROPE OF MANILA, SISAL, ISTLE, AND HEMP. Registered July 29, 1919. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio, a corporation of Ohio. Renewed July 29, 1939.

126,228. **THE ENGINEERING INDEX.** CERTAIN NAMED PRINTS AND PUBLICATIONS. Registered August 5, 1919. THE ENGINEERING MAGAZINE COMPANY. Renewed August 5, 1939, to The American Society of Mechanical Engineers, New York, N. Y., an incorporated association of New York, assignee.

126,306. **SEAL-AGAIN.** BOTTLE-STOPPERS, BOTTLE-CAPS, AND JAR-CLOSURES. Registered August 19, 1919. KOSCHERAK SIPHON BOTTLE WORKS, Hoboken, N. J. Renewed August 19, 1939, to Otto L. Koscherak, doing business as Seal-Again Bottle Stopper Co., New York, N. Y., successor.

126,388. **PINE-OX-GEN.** A DISINFECTANT. Registered August 26, 1919. JAMES J. BONNER, Boston, Mass. Renewed August 26, 1939, to James J. Bonner, Malden, Mass.

126,537. **FRX.** MECHANICAL FIRE-EXTINGUISHERS. Registered September 16, 1919. THE F-R-X MANUFACTURING COMPANY, Norwalk, Ohio, a corporation of Ohio. Renewed September 16, 1939.

126,538. **DEER CREEK.** BITUMINOUS COAL. Registered September 16, 1919. FORD COLLIERIES COMPANY, Pittsburgh, Pa., and Detroit, Mich., a corporation of Pennsylvania. Renewed September 16, 1939.

126,608. **THE SILVER M'F'G CO.** CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF. Registered September 23, 1919. THE SILVER MANUFACTURING COMPANY. Renewed September 23, 1939, to The Silver Manufacturing Company, Salem, Ohio, a corporation of Ohio, assignee by mesne assignments.

126,699. **SILCO.** UNPLATED BASE-ALLOY TABLEWARE—TO WIT, FLAT-WARE CONSISTING OF SPOONS AND FORKS. Registered September 30, 1919. INTERNATIONAL SILVER COMPANY, Jersey City, N. J., and Meriden, Conn. Renewed September 30, 1939, to International Silver Company, Meriden, Conn., a corporation of New Jersey.

126,711. **LOUMAIN.** COTTON PIECE GOODS. Registered September 30, 1919. LEWISTON BLEACHERY AND DYE WORKS, Lewiston, Maine. Renewed September 30, 1939, to Pepperell Manufacturing Company, Boston, Mass., a corporation of Massachusetts, assignee.

126,740. **VIOLET OF THE NILE.** TOILET POWDERS. Registered September 30, 1919. THE PALMOLIVE COMPANY, Milwaukee, Wis. Renewed September 30, 1939, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

126,741. **ROSE EGYPTIAN.** TOILET POWDERS. Registered September 30, 1919. THE PALMOLIVE COMPANY, Milwaukee, Wis. Renewed September 30, 1939, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

126,742. **CLEOPATRA DIVINE.** FACE-POWDER. Registered September 30, 1919. THE PALMOLIVE COMPANY, Milwaukee, Wis. Renewed September 30, 1939, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

126,774. **ATOPHAN.** CERTAIN NAMED MEDICINES USEFUL IN THE TREATMENT OF GOUT AND RHEUMATISM. Registered September 30, 1919. SCHERING & GLATZ, INC. Renewed September 30, 1939, to Schering & Glatz, Inc., New York, N. Y., a corporation of New Jersey, assignee.

126,825. **CAMCO.** CORSETS. Registered October 7, 1919. SAMUEL HIGBY CAMP. Renewed October 7, 1939, to S. H. Camp & Company, Jackson, Mich., a corporation of Michigan, assignee.

126,904. **NOBBY.** HOSIERY FOR MEN, WOMEN, AND CHILDREN. Registered October 7, 1919. G. SOMMERS & Co., St. Paul, Minn., a corporation of Minnesota. Renewed October 7, 1939.

126,939. **SILCO.** TABLE-KNIVES MADE OF BASE METAL. Registered October 14, 1919. INTERNATIONAL SILVER COMPANY, Jersey City, N. J., and Meriden, Conn. Renewed October 14, 1939, to International Silver Company, Meriden, Conn., a corporation of New Jersey.

126,955. **EVERKEEN.** CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. Registered October 14, 1919. JOHN PRITZLAFF HARDWARE Co., Milwaukee, Wis., a corporation of Wisconsin. Renewed October 14, 1939.

126,973. **TIP TOP.** PHARMACEUTICAL RUBBER GOODS, AS FOLLOWS: ELASTIC NURSING-NIPPLES. Registered October 14, 1919. WHITALL TATUM COMPANY, New York, N. Y. Renewed October 14, 1939, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania, assignee.

127,156. **ALBINOL.** SOAPS FOR CLEANING AND SCOURING TEXTILES. Registered October 21, 1919. EUGENE VELLNER, Philadelphia, Pa. Renewed October 21, 1939.

127,159. **BESTYETTE.** CERTAIN NAMED CLOTHING. Registered October 21, 1919. NEW YORK MACKINTOSH CLOTHING COMPANY, New York, N. Y., a corporation of New York. Renewed October 21, 1939.

127,176. **CASCO.** LAXATIVE TABLETS. Registered October 21, 1919. THE CASCO COMPANY, Canton, Ohio, a corporation of Ohio. Renewed October 21, 1939.

127,189. **HERCULOID.** PYROXYLIN PLASTICS IN THE FORM OF RODS, TUBES, SHEETS, SLABS, ETC. Registered October 21, 1919. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed October 21, 1939.

LABELS

REGISTERED MAY 23, 1939

53,007.—*Title:* "BAKED-IN" FRESHNESS. For Sandwich Loaves. AMERICAN BAKERIES COMPANY, Atlanta, Ga. Published September 17, 1938.

53,008.—*Title:* "BAKED-IN" FLAVOR. For Bread. AMERICAN BAKERIES COMPANY, Atlanta, Ga. Published September 17, 1938.

53,009.—*Title:* GOLD BAR BUTTER. For Butter. BITTER ROOT COOPERATIVE CREAMERY Co., Stevensville, Mont. Published February 27, 1939.

53,010.—*Title:* LINDY. For Canned Peas. BLUE EARTH CANNING COMPANY, Blue Earth, Minn., assignor to Minnesota Valley Canning Company, Le Sueur, Minn., a corporation of Minnesota. Published July 20, 1937.

53,011—*Title:* BRADSHAW'S. For Honey. R. D. BRADSHAW AND SONS, Wendell, Idaho. Published February 1, 1939.

53,012.—*Title:* HOLSUM. For Bread. DIETZEN'S BAKERY, Kokomo, Ind. Published April 21, 1939.

53,013.—*Title:* KLEAN KLEANER WINDOW CLEANER. For a Window Cleaner. CLARENCE J. FREED, doing business as Fifth Ave. Products Company, Youngstown, Ohio. Published April 5, 1939.

53,014.—*Title:* PARROT BRAND CHOCOLATE FLAVORED DAIRY FLAVOR. For Chocolate Flavored Drink Base. D. GHIRARDELLI Co., San Francisco, Calif. Published March 29, 1939.

53,015.—*Title:* SLICED MENASHA BREAD. For Bread. MENASHA PRODUCTS COMPANY, Menasha, Wis. Published March 6, 1939.

53,016.—*Title:* FRESH MENASHA SLICED BREAD. For Bread. MENASHA PRODUCTS COMPANY, Menasha, Wis. Published March 6, 1939.

53,017.—*Title:* PRINCESS ICE CREAM. For Ice Cream. MENASHA PRODUCTS COMPANY, Menasha, Wis. Published March 15, 1939.

53,018.—*Title:* PREPARED DIC-A-DOO WATERLESS TYPE CLEANER. For a Waterless Type Cleaner. THE PATENT CEREALS COMPANY, Geneva, N. Y. Published March 29, 1939.

53,019.—*Title:* PENICK. For a Syrup. PENICK & FORD, LTD. INCORPORATED, New York, N. Y. Published April 6, 1939.

53,020.—*Title:* LOVELY LADY. For Wedding Rings. DAVID SILVER, Johnson City, Tenn. Published April 17, 1939.

53,021.—*Title:* CHIEF LUCKY. For Note Book Filler Paper. PAUL E. TROUCHE, Charleston, S. C. Published April 5, 1939.

PRINTS

REGISTERED MAY 23, 1939

17,395.—*Title:* MEXIHOT BARBECUE SANDWICHES. For Barbecue Sandwiches. DICKERSON MANUFACTURING Co., Springfield, Mo. Published December 19, 1938.

17,396.—*Title:* "ADAGIO" LONG LINE. For Long Line Brassières. MAIDEN FORM BRASSIERE COMPANY, INC., New York, N. Y. Published January 16, 1939.

17,397.—*Title:* "ADAGIO". For Brassières of the Character Illustrated in Said Print. MAIDEN FORM BRASSIERE COMPANY, INC., New York, N. Y. Published January 16, 1939.

17,398.—*Title:* WHY VOGUE. For Automobile Tires. VOGUE RUBBER COMPANY, Chicago, Ill. Published January 15, 1939.

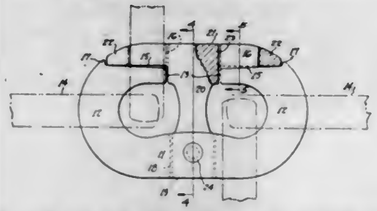
17,399.—*Title:* TIMBER IS A CROP. For Timber and Other Forest Products. WEYERHAEUSER SALES COMPANY, St. Paul, Minn. Published March 20, 1939.

21,093
REPAIR LINK

Brown E. Barnes, Portland, Oreg., assignor to Electric Steel Foundry Company, Portland, Oreg.

Original No. 2,116,875, dated May 10, 1938, Serial No. 47,086, October 28, 1935. Application for reissue August 9, 1938, Serial No. 223,996

4 Claims. (Cl. 59—84)



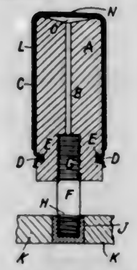
3. A link for chains and the like, consisting of a link having one closed side and one open side, said open side having lugs projecting therefrom in the plane of the link and normal to the line of pull, a closure member for closing the open side of said link, said closure member having openings therethrough adapted to receive said lugs, said closure member having a web-portion projecting through openings in opposite sides of the link, and a pin insertable through aligned apertures in the walls of the closed side of the link and through said web portion to retain the closure member in position.

21,094
PROCESS AND APPARATUS FOR THE PRODUCTION OF HOLLOW BODIES FROM CELLULOSE PRODUCTS AND OTHER PLASTIC MASSES

Kurt Bratring, Berlin, Germany, assignor, by mesne assignments, to Neocell Products Corporation, a corporation of Delaware

Original No. 2,114,794, dated April 19, 1938, Serial No. 2,640, January 21, 1935. Application for reissue November 19, 1938, Serial No. 241,437

14 Claims. (Cl. 18—41)



12. A method of producing hollow bodies from cellulose products and other plastics which consists in stretching an elastic skin under tension over a mould, depositing a solidifiable plastic on the skin to form a hollow body, solidifying the same, relieving the tension on the elastic skin and removing the skin and hollow body together from the mould by fluid pressure applied between the mould and the elastic skin, the tension applied to the elastic skin being sufficient to cause it automatically substantially to separate from the hollow body on such removal.

21,095
ART OF DISTILLING OILS

Robert E. Humphreys, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a corporation of Indiana

No Drawing. Original No. 1,647,629, dated November 1, 1927, Serial No. 548,531, March 31, 1922. Application for reissue January 26, 1929, Serial No. 335,380

5 Claims. (Cl. 196—50)

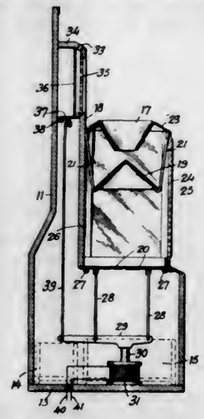
1. The improved method of manufacturing gasoline which consists in distilling a hydrocarbon oil distillate having a boiling point range of 650 to 850° F. under a pressure of 60 to 100 lbs. per square inch, separating from the products of such distillation a distillate stock having an initial boiling point approximating the maximum boiling point of gasoline, and redistilling the separated stock under a pressure in excess of 300 lbs. per square inch for the further formation of gasoline.

21,096
CASHIER MACHINE

Jacob C. Stedman, Memphis, Tenn.

Original No. 2,014,599, dated September 17, 1935, Serial No. 716,804, March 22, 1934. Application for reissue September 14, 1937, Serial No. 163,876

6 Claims. (Cl. 232—10)

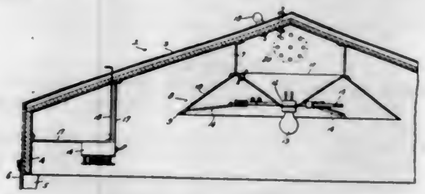


6. In a device of the character described, means to hold a ticket in position to expose a face thereof, means to hold money in position to expose a face thereof, a receptacle for the money, a receptacle for the tickets, means for dumping the money and tickets into their respective receptacles, said last-named means comprising trap doors supporting the tickets and money, an electromagnet, an armature for said electromagnet

connected to each of said trap doors, a circuit for said electromagnet, and means for closing said circuit.

21,097
BROODER
Boyd W. Warner, North Manchester, Ind., assignor to The Warner Brooder & Appliance Corporation, North Manchester, Ind., a corporation of Indiana
Original No. 2,098,475, dated November 9, 1937, Serial No. 62,838, February 7, 1936. Application for reissue May 12, 1938, Serial No. 207,640
11 Claims. (Cl. 119—33)

11. A brooder including a hover having ventilating openings in its upper portion, a heating unit, means to support said unit within the upper portion of the hover in spaced relation to the walls of the latter and below the plane of the ventilating openings, said heating unit comprising a reflector having a continuous closed wall inclining outwardly from top to bottom, a second reflector having a wall surface with divergent portions having inclinations reversed with respect to the inclinations of adjacent parts of the first wall, and an electric heating element mounted

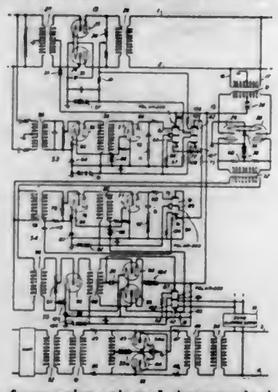


between the first and second reflecors, said heating element being substantially surrounded by free space whereby movement of air will take place within the space defined by the said wall of the first reflector and around substantially the entire heating unit.

PATENTS

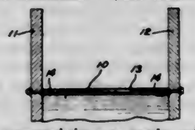
GRANTED MAY 23, 1939

2,158,993
SIGNAL TRANSMISSION SYSTEM
Leonard G. Abraham, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 9, 1937, Serial No. 152,701
12 Claims. (Cl. 179—170)



1. In a four-wire signal transmission system, a station having a transmitting pair of conductors and a receiving pair of conductors connected thereto, and means controlled only from the transmitting pair of conductors for reducing the volume range of the signals on the transmitting conductors by a certain fraction with the signal volume partially determining the transmitted signal volume, for extending the volume range of the signals on the receiving conductors by a reciprocal of said fraction and for holding the loss devices at fixed values during pauses in the transmission of signals.

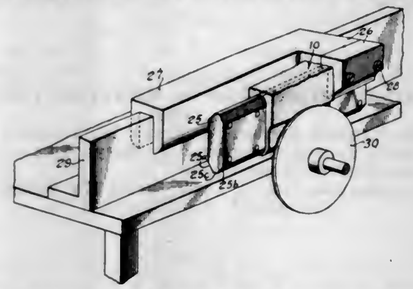
2,158,994
REEL CONSTRUCTION
Arthur A. Bureau, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 16, 1937, Serial No. 153,893
8 Claims. (Cl. 242—77)



1. A reel comprising a pair of heads, a metal drum having a projection at each of its ends turned to form an obtuse angle with the inner surface of the drum, and means for securing the heads to the drum with the projection embedded in the inner surfaces of the heads.

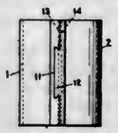
2,158,995
METHOD OF MANUFACTURING ANODES
John Augusta Zitzler, St. Marys, Pa., assignor to Speer Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application October 3, 1935, Serial No. 43,450
7 Claims. (Cl. 250—27.5)

2. The method of making a unitary or one-piece carbon anode of the box-like or cathode-enclosing type which comprises machining to desired dimensions within a carbon block a flattened or oblate cathode-enclosing chamber extending longitudinally through the block and having its bounding surfaces accurately parallel with a line through the block corresponding to the longitudinal central axis of the finished an-



ode, mounting said block on a mandrel snugly fitting the bounding surfaces of said chamber, and, while said block is thus mounted, machining outer bounding surfaces of said block while using the machined faces of said chamber as gauging surfaces to determine the desired outer contour and over-all dimensions of the finished anode.

2,158,996
CARBON ANODE
John Augusta Zitzler, St. Marys, Pa., assignor to Speer Carbon Company, a corporation of Pennsylvania
Application June 3, 1932, Serial No. 615,112
7 Claims. (Cl. 250—27.5)

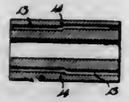


1. A carbon anode adapted to be held by supporting wires consisting of two members having oppositely facing U-shaped channels forming a hollow cylinder, the contacting edges of said members having interfitting tongues and grooves extending transversely thereof whereby the members may be moved transversely of the channel but not longitudinally thereof.

2,158,997
CARBON ANODE
John Augusta Zitzler, St. Marys, Pa., assignor to Speer Carbon Company, a corporation of Pennsylvania
Original application June 3, 1932, Serial No. 615,112. Divided and this application July 20, 1933, Serial No. 681,312
17 Claims. (Cl. 250—27.5)

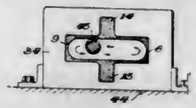
7. An electron discharge device comprising a vacuum tube within which are assembled in operative relation to each other a filament, a grid, and an oblate hollow cylindrical carbon anode,

said anode comprising two parallel flat side portions joined by two opposite curved end portions and being provided with longitudinally extending flanges which project outwardly from said flat side portions and have support-receiving open-



ings therein, and supporting wires engaging said openings, said anode consisting of one integral piece of carbon and having its walls accurately formed to give the required spacing thereof with respect to said filament and grid.

2,158,998
ANODE AND METHOD OF MANUFACTURING THE SAME
John Augusta Zitzler, St. Marys, Pa., assignor to Speer Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application July 3, 1934, Serial No. 733,657
13 Claims. (Cl. 250—27.5)



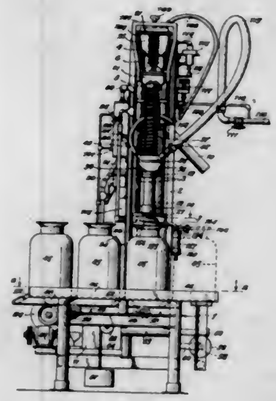
9. The method of making a one-piece carbon anode of the cathode-enclosing type which comprises preliminarily preparing a hollow oblate cylinder composed of suitably refractory carbon material in a single piece, accurately machining surfaces on one side of the cylinder wall to render them parallel to the longitudinal axis of the cylinder and locate them at the predetermined desired distance from said axis, and then, while rigidly backing the wall surfaces thus machined, machining surfaces on the other side of the cylinder wall to render them also parallel with said axis and reduce the cylinder wall over the greater part of its extent to a thickness of the order of 0.05 inch.

2,158,999
HARVESTER BAG
Edmund H. Allen, Orlando, Fla.
Application February 4, 1937, Serial No. 124,097
2 Claims. (Cl. 150—2)



1. A harvester bag of the type described embodying a bag of flexible material, an expanded mouth at one end, a foldable lower end to close the same, means for maintaining the end closed to permit loading of the bag, a flexible rod secured across one side of the bag at the discharge end to permit lateral bending of the lower end, thereby to automatically adjust itself to various shapes of receptacles into which said lower end is inserted to empty the load, and means for suspending the bag on the user's body.

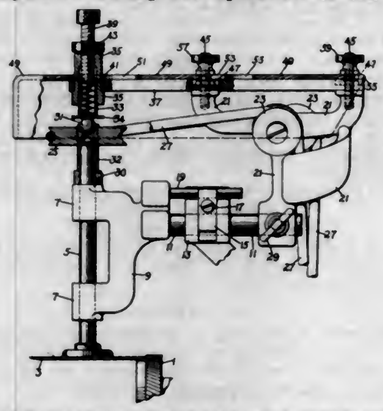
2,159,000
EMPTYING DEVICE AND METHOD
E. Roy Alling, Kenmore, N. Y.
Application November 26, 1937, Serial No. 176,458
36 Claims. (Cl. 221—69)



1. An emptying device for containers which may vary in height comprising means for supporting said containers to be emptied in approximately upright positions and guiding them along a prescribed path, a conduit disposed above said supporting means and beneath which said containers must pass, means operable automatically in timed relation to the travel of the containers along said path for causing relative movement of said conduit into the upright container into close proximity to the container bottom to remove the contents of the container and then removal therefrom, and means including a stopper on said conduit and engageable with containers of different heights during said relative movement, said means being effective when said conduit is within said container for creating greater gaseous pressure in said container than in said conduit for emptying the contents of said container through said conduit by pressure differences on said contents.

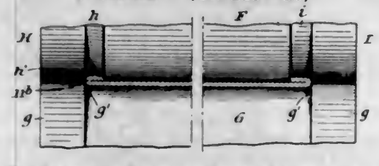
2,159,001
SKIVING MACHINE
Howard E. Armstrong, Johnson City, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 19, 1937, Serial No. 175,488
7 Claims. (Cl. 69—16)

1. A skiving machine having, in combination, a feed roll, means for rotating said roll, a cooperating feed disk, a shaft to which the feed disk is fastened, means for rotating the feed disk shaft, said shaft being rotatable and slidable, a support extending over one end of the shaft, a yielding member carried by the support for exerting pressure upon the shaft, and means capable of being manipulated during the operation of the ma-



chine for varying the pressure exerted by the yielding member.

2,159,002
MANUFACTURE OF METAL STOCK
Leon Hehl Ashmore, Collingswood, N. J., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey
Application May 28, 1938, Serial No. 210,757
6 Claims. (Cl. 113—32)



1. In the manufacture of metal stock for forming pen points and the like, the steps of first bending an edge portion of a strip of thin metal to form a flange overlying the main body of the strip and finally drawing and roll-forging said flange into intimate and permanent contact with the main body of the strip and simultaneously contracting its width and increasing its thickness with respect to the main body of the stock whereby a thickened edge of narrow width is obtained.

4. Metal stock for forming pen points and the like, consisting of a strip of thin metal having one edge turned over and drawn and substantially roll-forged down against the body of the strip in intimate and permanent contact therewith, forming an enlarged edge of narrow width with the turned over portion of such edge materially thicker than the body of the strip.

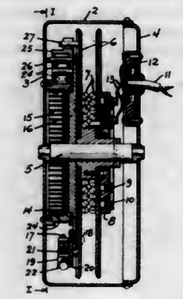
2,159,003
MANUFACTURE OF WRITING PENS
Leon Hehl Ashmore, Collingswood, N. J., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey
Application May 28, 1938, Serial No. 210,758
4 Claims. (Cl. 113—32)

1. In the preparation of blanks from metal stock for the production of pen points and the like, the steps of first bending an edge portion of a strip of thin metal to form a narrow noncontacting flange overlying the main body of the metal strip, and die-cutting blanks from such flanged stock and simultaneously compressing the flanged portion of the same into intimate and



permanent contact with the body of the strip to provide a thickened portion for the nib end of the pen or pen point raised from such blank.

2,159,004
RETRIEVING MECHANISM
Henry Bosch, Jr., San Francisco, Calif.
Application June 9, 1936, Serial No. 84,305
7 Claims. (Cl. 242—107)

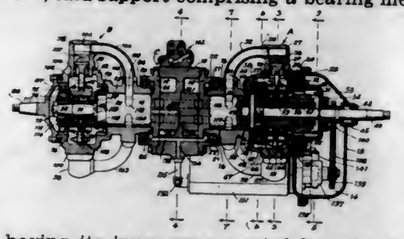


5. In a retrieving mechanism, an elongated flexible member, a rotor to which one end of said flexible member is secured and about which it is wound and from which said flexible member may be unwound by exerting a pull on the free end thereof, a second rotor connected to the first rotor and normally rotatable in unison with the first rotor, said rotors having a limited rotary movement with relation to each other, means for actuating the first rotor to rewind the flexible member when it has been unwound, and mechanism actuated by the relative rotational movement of the two rotors for automatically locking the rotors against rotation if the pull on the flexible member is released.

2,159,005
ROTARY PUMP
Hugo A. Centervall, Brooklyn, N. Y., assignor to Manly Corporation, New York, N. Y., a corporation of Delaware
Original application July 11, 1931, Serial No. 550,198. Divided and this application January 24, 1936, Serial No. 60,608
9 Claims. (Cl. 103—161)

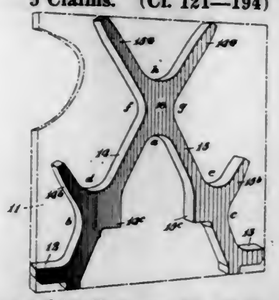
1. In a variable-stroke pump or motor having a cylinder-carrying rotor containing a central cavity, pistons in the cylinders of said rotor having connecting rods extending into said cavity, a rotatable shaft extending into said cavity and having a direct connection with said rotor and a laterally movable crank element surrounding said shaft and operatively connected with said connecting rods, the combination of a direct connection between said shaft and the rotor, and a support for the crank element positioned between

said direct connection and said connecting rods and permitting sliding movement of the crank element, said support comprising a bearing mem-



ber having its inner race carried by said shaft and having its outer race provided with a plate slidably fitted within guiding flanges on said crank element.

2,159,006
ENGINE FRAME CONSTRUCTION
Everett Chapman, Coatesville, Pa.
Application December 13, 1934, Serial No. 757,344
5 Claims. (Cl. 121—194)



1. The combination, in an engine structure of the internal combustion type constructed to receive two banks of cylinders arranged at an angle with respect to each other, of cylinder enclosing means comprising a plurality of single section skeletonized frame elements vertically arranged in spaced relation and providing internal chambers for the reception of cylinders; said frame elements having component parts including base members and two sets of upwardly and outwardly extending members with each set in substantially parallel relation and disposed diagonally with respect to the other, continuous longitudinal members connected to and spacing the base portions of said frame elements, and top plates serving as cylinder supports overlying the upwardly projecting portions of said frame elements and permanently secured thereto.

2,159,007
COMPOSITE ARTICLE AND METHOD FOR PRODUCING SAME
William Hale Charch and Dorothy E. Bateman, Buffalo, N. Y., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 31, 1934, Serial No. 737,792. Renewed August 4, 1938
8 Claims. (Cl. 91—68)

1. A wrapping tissue comprising a transparent, non-fibrous, cellulosic base sheet, a transparent moistureproof coating on said base sheet, a transparent anchoring medium between said base sheet and said moistureproof coating, said anchoring medium comprising a synthetic resin taken from the class consisting of a phenol-aldehyde resin and a urea-aldehyde resin which is substantially unaffected by water and the solvents used in the moistureproof coating.

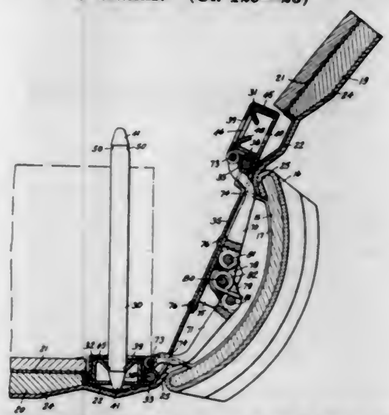
2,159,008
SATURATED POLYCARBOXYLIC ACID ESTERS OF 2-CHLOROALLYL ALCOHOL
Gerald H. Coleman and Bartholdt C. Hadler, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 14, 1938, Serial No. 195,852
6 Claims. (Cl. 260—485)

1. A 2-chloroallyl ester of an acid selected from the class consisting of oxalic acid and acids having the general formula:

$$R—(COOH)_n$$

wherein R represents a hydrocarbon radical of the class consisting of aromatic, aliphatic, and cycloaliphatic radicals containing no ethylenic linkages, and n represents an integer.

2,159,009
LOOSE LEAF BINDER
James Cooper, Solvay, and Gerhard H. J. Baule, Syracuse, N. Y., assignors to Hall & McChesney, Inc., Syracuse, N. Y., a corporation of New York
Application February 23, 1937, Serial No. 127,122
Renewed August 23, 1938
5 Claims. (Cl. 129—23)



5. A loose leaf binder comprising a back member, a cover hinged along each longitudinal edge of the back member, a housing pivotally mounted on each cover hinge and arranged on the inner side of the covers, a plurality of leaf impaling posts extending transversely of the back member, said housings being provided with means operable for detachably securing the ends of the posts to the housings, a plate carried by the back member and extending transversely thereof in spaced apart relationship thereto, said back member and one of said housings being movable about the opposite cover hinge away from said posts when said housing is detached therefrom, and means cooperable with the back member, detached housing, and adjacent cover, for automatically moving said back member toward said posts and said housing into engagement with said posts during closing of the adjacent cover, said means being housed between the back member and said plate.

2,159,010
THERMAL TREATMENT OF ALUMINUM BASE ALLOYS
Edgar H. Dix, Jr., Oakmont, and Joseph A. Nock, Jr., Tarentum, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 30, 1937, Serial No. 139,940
11 Claims. (Cl. 148—21.1)

1. In the art of heat treating aluminum base alloys, the method of producing maximum resistance to corrosion in a solution heat treated and artificially aged aluminum base alloy containing copper as the chief added alloying constituent and lesser amounts of magnesium and silicon, said method comprising quenching the alloy from the solution heat treating temperature in a medium maintained at a temperature above 100° C. to induce an initial precipitation of dissolved constituents in said alloy, and thereafter artificially aging the alloy.

2,159,011
PRODUCTION OF YARNS, FABRICS, ETC., HAVING A BASIS OF ORGANIC DERIVATIVES OF CELLULOSE
Henry Dreyfus, London, England
No Drawing. Application September 5, 1935, Serial No. 39,289. In Great Britain September 11, 1934
3 Claims. (Cl. 8—121)

1. Process for the production of improved artificial materials, which comprises subjecting yarns, threads, fabrics and similar textile materials having a basis of acetone-soluble cellulose acetate to acetylation with a non-solvent liquid medium comprising acetic anhydride, an organic diluent, stannic chloride and hydrochloric acid until they have a reduced solubility in acetone.

2,159,012
PROCESS FOR ACETYLATING CELLULOSE ACETATE TEXTILE MATERIALS
Henry Dreyfus, London, England
No Drawing. Application September 5, 1935, Serial No. 39,290. In Great Britain September 11, 1934
2 Claims. (Cl. 8—121)

1. Process for the production of improved artificial materials, which comprises subjecting filaments, yarns, threads and similar textile materials having a basis of acetone-soluble cellulose acetate and fabrics containing such materials to acetylation with a non-solvent liquid medium comprising acetic anhydride, an organic diluent and ferric chloride until products having a reduced solubility in acetone are obtained.

2,159,013
TEXTILE AND OTHER MATERIALS AND PROCESS FOR THEIR PRODUCTION
Henry Dreyfus, London, England
No Drawing. Application March 28, 1936, Serial No. 71,457. In Great Britain April 9, 1935
6 Claims. (Cl. 8—129)

1. Process for the production of artificial materials of reduced luster which is not increased by ironing while wet, which comprises reducing the luster of textile materials, foils, films and similar materials made of organic substitution derivatives of cellulose soluble in organic solvents, by subjecting them to the action of hot aqueous media, and subsequently esterifying the materials of reduced luster, the structure of the materials being maintained during the esterification process.

2,159,014
MANUFACTURE OF ARTIFICIAL MATERIALS
Henry Dreyfus, London, England
No Drawing. Application September 18, 1936, Serial No. 101,428. In Great Britain September 23, 1935
4 Claims. (Cl. 8—129)

1. Process for the production of improved artificial materials, which comprises acetylating formed filaments, yarns, foils, films and similar materials having a basis of acetone-soluble cellulose acetate with non-solvent liquid media comprising acetic anhydride dissolved in a suitable diluent with the aid of perchloric acid as catalyst and continuing the acetylation until products having a reduced solubility in acetone are obtained.

2,159,015
MANUFACTURE OF ARTIFICIAL MATERIALS
Henry Dreyfus, London, England
No Drawing. Application April 2, 1937, Serial No. 134,527. In Great Britain April 29, 1936
3 Claims. (Cl. 8—129)

1. Process for improving the properties of mixed yarns, fabrics and other textile materials containing filaments having a basis of organic derivatives of cellulose and filaments of regenerated cellulose of the viscose type, which comprises subjecting the materials to esterification with approximately 90 parts of an organic acid anhydride containing not more than six carbon atoms in a liquid medium which is a non-solvent for the materials, about 0.8 part of acetyl chloride, using a metal halide selected from the group consisting of iron, tin and zinc halides as a catalyst in an amount equivalent to about 0.6 part of anhydrous ferric chloride, the regenerated cellulose filaments being substantially unaffected by the esterifying agents.

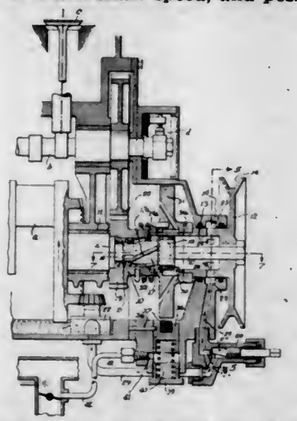
2,159,016
MANUFACTURE OF ARTIFICIAL MATERIALS
Henry Dreyfus, London, England
No Drawing. Application April 2, 1937, Serial No. 134,528. In Great Britain April 29, 1936
7 Claims. (Cl. 8—121)

1. Process for improving the properties of artificial materials, which comprises subjecting artificial filaments, foils and similar materials having a basis of an organic derivative of cellulose which is soluble in organic solvents to esterification in a non-solvent liquid medium having a shrinking action on the materials and containing a low concentration of an esterifying agent therefor and a high concentration of an organic liquid which has a solvent or high swelling action on the materials but which is chemically inert to them.

2,159,017
CONTROL MECHANISM FOR INTERNAL COMBUSTION ENGINES
Herbert L. Duncan, Highland Park, Mich., assignor of one-half to Lewis P. Threlkeld, Detroit, Mich.
Application August 17, 1937, Serial No. 159,555
24 Claims. (Cl. 123—90)

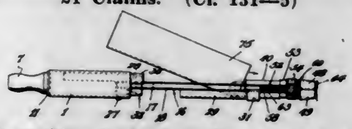
1. In the control of timing activities of internal combustion engines, wherein the crank and cam shafts are operatively connected in drive and driven relation, and wherein the connections include a pair of co-operating axially-alined elements with one of the elements spring-supported and shiftable relative to the other in the direction of its axis and with the elements operatively connected to cause relative rotative movement

therebetween by such axial shifting movement while maintaining the drive and driven relationship, the method of positioning said elements relatively to each other which consists in establishing a fluid circulation by and during engine operation with the fluid variable volumetrically responsive to crank-shaft speed, and positioning



the elements relatively to each other by utilizing a variable percentage of the flowing fuel volume to variably position the shiftable element axially and to determine and maintain the element positions during running speeds of the engine, the active volume percentage being responsive to crank-shaft speed.

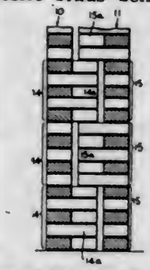
2,159,018
SMOKING DEVICE
Carl D. Dye, Detroit, Mich.
Application August 3, 1936, Serial No. 94,098
21 Claims. (Cl. 131—5)



1. A smoking device including a barrel, a cylindrical tube mounted in the barrel, a mouth piece carried on the cylindrical tube, a skeleton frame carried by the barrel and slidable therein, trough sections carried on the skeleton frame and adapted to receive a cigarette paper, a plunger tube carried within the cylindrical tube, a head mounted on the plunger tube within the barrel, a plug carried within the skeleton frame and engageable with the head, said plug being adapted to receive a cigarette paper thereabout, and knife sections carried by the skeleton frame and cooperating with the plug and trough sections for supporting a cigarette being made, said knife sections defining a boring tool permitting urging of the smoking material within the cigarette paper, and said knife sections being shiftable for freeing the end of a made cigarette to permit ignition and smoking thereof.

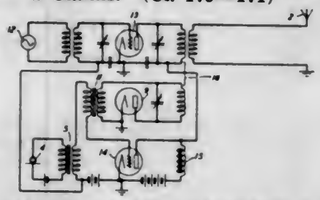
2,159,019
BRICK WALL CONSTRUCTION
Herbert Alfred Faber, Cincinnati, Ohio
Application May 22, 1937, Serial No. 144,168
2 Claims. (Cl. 72—102)

1. A hollow brick wall comprising component single walls mutually spaced apart, and composite studs disposed therebetween at intervals along the horizontal extent of the wall, each of said composite studs being integral with one and the other of the component single walls, alternately, from bottom to top, the said alternations in the composite studs being provided by in-



dividual groups of bricks, all of the bricks in any one group being consecutively aligned, being integral with only one of the component walls, having portions which form part of the main body of that component wall, and being spaced apart from the other component wall to provide insulation space.

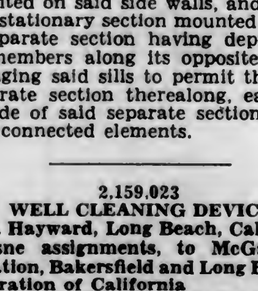
2,159,020
MODULATING SYSTEM
Enoch B. Ferrell, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 9, 1934, Serial No. 729,735
2 Claims. (Cl. 179—171)



1. A modulating system comprising a modulator tube and an amplifier tube, grid and plate circuits for each of said tubes, a carrier source coupled to the grid circuit of the modulator, a signal source, means responsive to the difference between the instantaneous values of any two waves impressed thereon, said means being connected between said signal source and said amplifier tube, and said signal source being isolated from said modulating device except through said differentially responsive means, an impedance element common to the plate circuits of both tubes, and a detector associated by high frequency coupling with the modulator plate circuit and by low frequency coupling with said differentially responsive means.

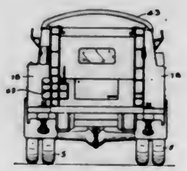
2,159,021
ADJUSTABLE SUPPORT FOR PLUMBING FIXTURES
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application January 5, 1937, Serial No. 119,105
1 Claim. (Cl. 4—252)

Means for suspendingly supporting a defecator such as a closet bowl comprising a base member including feet for removable securement otherwise relative to a floor, said base member including integrally formed and vertically extending mutually spaced elements having vertical grooves therein, and an upper open frame assembly comprising a body portion provided with recessed means for receiving bolts or the like for suspendingly supporting the defecator, and said body having downwardly extending spaced ele-



ments for cooperation with the vertical grooves in the base member, and means for securing the downwardly extending spaced elements of the upper assembly in adjusted position vertically with respect to the vertically extending spaced elements of said base member.

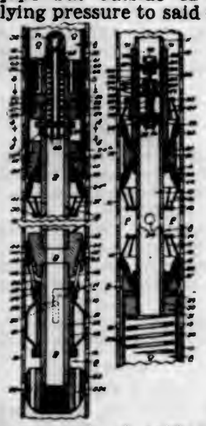
2,159,022
UTILITY TRUCK
Paul E. Hawkins, Lakewood, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio
Application January 19, 1935, Serial No. 2,554
3 Claims. (Cl. 296—137)



1. In a truck of the class described having a body provided with a flooring and side walls, sills mounted on said side walls, and a top comprising a stationary section mounted on said sills and a separate section having depending supporting members along its opposite sides movably engaging said sills to permit the sliding of said separate section therealong, each member on one side of said separate section comprising yieldably connected elements.

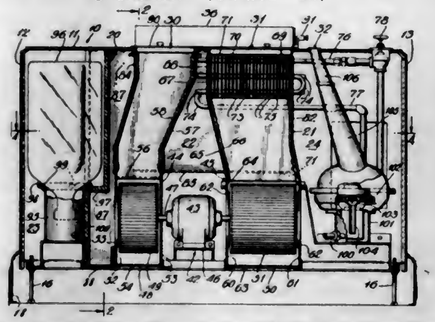
2,159,023
WELL CLEANING DEVICE
Landes H. Hayward, Long Beach, Calif., assignor, by mesne assignments, to McGaffey-Taylor Corporation, Bakersfield and Long Beach, Calif., a corporation of California
Application November 20, 1935, Serial No. 50,675
27 Claims. (Cl. 166—20)

1. In an apparatus for cleaning perforations in pipe and the like: means movable in said pipe and defining a confined space therein, means for moving said space defining means, and means including a cooperative cylinder and plunger within said pipe but outside of said confined space for applying pressure to said confined space



during the movement of said space defining means.

2,159,024
AIR CONDITIONING APPARATUS
Herman Hersperger, Roselle, N. J., assignor to American Radiator Company, New York, N. Y., a corporation of New Jersey
Application December 31, 1936, Serial No. 118,483
5 Claims. (Cl. 261—12)



1. In an air conditioning unit, the combination of an elongated casing structure adapted to be arranged in a room space and operable to circulate and condition the air therein; a pair of spaced upright partition means extending across the interior of said enclosing casing structure and dividing the latter into a main or central compartment and into first and second end compartments arranged respectively at the ends of said central compartment; said central compartment having spaced air inlet and outlet openings; means in said central compartment defining an air passage connecting said inlet and outlet openings; heating means arranged across said passage; water supply means arranged in said first end compartment; water atomizing mechanism in said second end compartment, and having a discharge outlet and operable to deliver through its outlet a stream of air with water mist entrained therein; conduit means connecting the water supply means and the water atomizing mechanism; nozzle means connected to the discharge of said mechanism and having its outlet and extending through a defining wall part of said second end compartment at points adjacent the outlet in said central compartment, and being inclined toward such outlet so as to provide

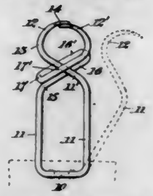
for the flow of air with water mist entrained therein outwardly over the outlet in said central compartment so that the water mist becomes quickly evaprated upon contacting with the heated air from said outlet in the central compartment.

2,159,025
INSECTICIDE
William F. Hester, Drexel Hill, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application May 11, 1937, Serial No. 141,927
12 Claims. (Cl. 167—30)

1. An insecticidal composition containing a phenyl benzyl ether having a substantially neutral substituent of relative weight equal to at least thirty.

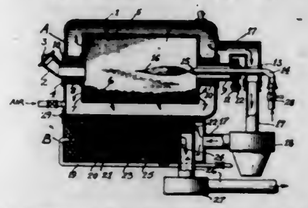
5. An insecticidal composition containing a phenyl benzyl ether having a nitro substituent.

2,159,026
TAG FASTENER
Benno Y. Jacobson, New York, N. Y.
Application March 26, 1938, Serial No. 198,168
5 Claims. (Cl. 40—24)



1. A fastener formed from a single piece of wire bent upon itself to provide two side portions which lie substantially parallel thruout a portion of their length and which are bent so as to cross one another, the ends of said wire being formed to provide gripping jaw members which extend in spaced overlapping relation during a part of their closing movement and serve to clasp material placed between them.

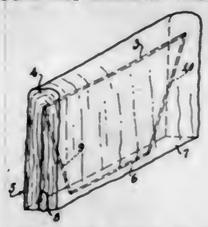
2,159,027
PROCESS AND APPARATUS FOR ROASTING
Michael M. Jalma and Henri Coutinho, New York, N. Y.; said Coutinho assignor to said Jalma
Application August 20, 1936, Serial No. 96,940
10 Claims. (Cl. 34—24)



1. In a process for roasting vegetable materials, the steps comprising purifying the roasting gases by subjecting said gases to a cracking treatment and thereafter to an oxidizing treatment.

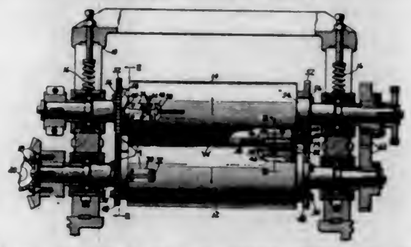
2,159,028
INSULATING BAT
Cecil F. Johnson, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application November 29, 1935, Serial No. 52,011
9 Claims. (Cl. 154—44)

1. An insulating article of fibrous material which comprises a bat folded over upon itself to form a double thickness having the free ends of said bat terminating together at one end thereof, and a supporting member therefor embedded



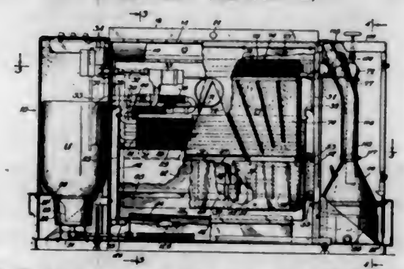
between the contiguous surfaces of said bat, said supporting member having a laterally disposed ledge lying along the inner edge of said fold.

2,159,029
WEB-MARKING MECHANISM
Cutler D. Knowlton, Beverly, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a corporation of Massachusetts
Application July 20, 1937, Serial No. 154,614
13 Claims. (Cl. 93—93)



1. In a machine for operating upon web-material, rotatable rolls having surfaces for continued contact with opposite sides of the web, marking means carried by one of the rolls and projecting outside its web-contacting surface, said marking means being movable into engagement with the web, and means carried wholly by the web-contacting rolls for actuating the marking means.

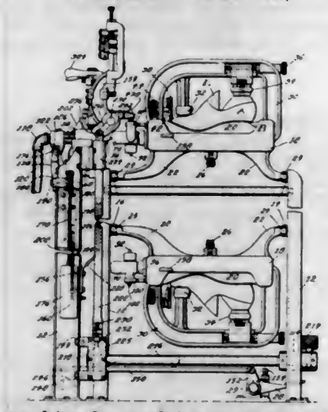
2,159,030
AIR CONDITIONING APPARATUS
Robert D. Lambert, New York, N. Y., assignor to American Radiator Company, New York, N. Y., a corporation of New Jersey
Application December 31, 1936, Serial No. 118,461
6 Claims. (Cl. 261—1)



1. In an air conditioning unit adapted to be installed in a room space, the combination of blower means providing for the circulation of air about the room space; dehumidifying means operable to extract moisture from the air as it

is circulated; a water-collecting receptacle arranged to receive the moisture from said dehumidifying means; a separate source of water supply; a single water-atomizing mechanism having an inlet connected to both said receptacle and to said separate source of water supply and having an outlet through which atomized water is discharged; and conduit means connected to said outlet and providing for the discharge of atomized water from said receptacle to the outside atmosphere and for the discharge of atomized water from said separate source into the circulating air.

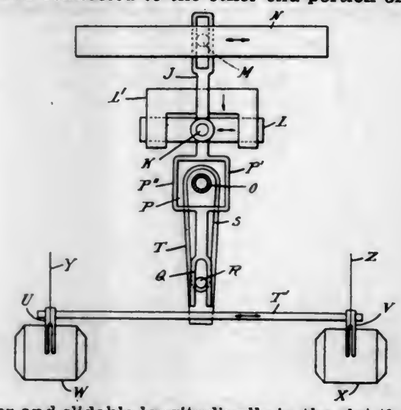
2,159,031
MACHINE FOR APPLYING PRESSURE TO SHOE BOTTOMS
John T. Lancaster, Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application June 14, 1935, Serial No. 26,629
76 Claims. (Cl. 12—36)



1. A machine for applying pressure to shoe bottoms having, in combination, a plurality of pads arranged each to receive a sole and shoe, shoe-engaging abutments for each pad, mechanism for moving the pads successively into and out of an operating station, means movable with each pad for relatively positioning a sole and shoe thereon, and means for relatively moving the abutments and pad heightwise of the shoe to apply pressure to the shoe bottom.

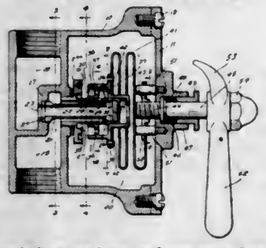
2,159,032
WINDING YARN
William George Lea, Rome, Ga., assignor to Tubize Chatillon Corporation, New York, N. Y., a corporation of Delaware
Application January 27, 1937, Serial No. 122,493
4 Claims. (Cl. 242—43)

1. In a traverse mechanism in which a filament guide is reciprocable back and forth in the direction of the axis of rotation of a filament winding means, the combination which comprises a lever slotted longitudinally at both end portions and mounted on a pivot at a point between the two end portions of the lever, means for oscillating one end portion transversely to the longitudinal axis of the lever and slidable longitudinally in the slot in said end portion, means for simultaneously oscillating the pivot in the direction of oscillation of said one end of the lever, means for progressively increasing the distance between the oscillating means at said one end portion of the lever and the pivot while both pivot and said one end portion are oscillated, and mechanical means connected to the other end portion of the



lever and slidable longitudinally in the slot therein for oscillating the filament guide in synchronism with said other end.

2,159,033
FLUID MIXING VALVE
Frederick C. Leonard, Cranston, R. I.
Application October 31, 1936, Serial No. 108,527
6 Claims. (Cl. 236—12)

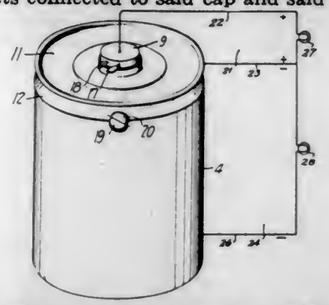


1. In a mixing valve, a housing having an inlet chamber for hot fluid, an inlet chamber for cold fluid, and an outlet chamber for mixed fluid, a member having a bore communicating with one inlet chamber, a shell spaced from said member, the space between said shell and said member communicating with the other inlet chamber, said member and said shell having outflow openings for said bore and said space, a sleeve valve device mounted for reciprocating movement on said shell and movable to control outflow from said openings, and having a mixing chamber for receiving the fluid from said openings, a thermostatic chamber in communication with said mixing chamber and said outlet chamber, and thermostatic means in said thermostatic chamber responsive to change in temperature of the fluid therein to move said valve device.

2,159,034
BATTERY
Wayne Matthews, Oakland, Calif.
Application July 1, 1936, Serial No. 88,421
5 Claims. (Cl. 136—83)

4. A battery comprising, a negative casing provided with a substantially circular end, a positive element extending longitudinally through said casing and positioned substantially at the center of said end and substantially in the plane of said end, a metal cap rotatably mounted on said cas-

ing and surrounding said element and being insulated from said element and casing, and switch contacts connected to said cap and said element

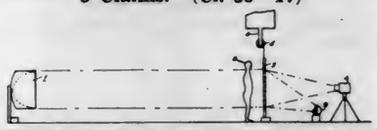


and said casing and engageable in different circumferential positions of said cap to selectively electrically connect said cap to said element and said casing.

2,159,035

METHOD AND MEANS FOR USE IN FITTING CLOTHING

Edward John McGrath, Jr., Cleveland, Ohio
Application April 19, 1937, Serial No. 137,665
5 Claims. (Cl. 33—17)



1. The method of comparing a person to be fitted with a garment to a standard pattern, comprising superposing a substantially true outline of the person by projected light rays on a screen having thereon visible indicia of a standard pattern, and shifting the relative position of the outline and screen to position the outline as near as may be to a fitting relation to the visible indicia of the standard pattern for visibly indicating the conformance and non-conformance of the outline and the standard pattern.

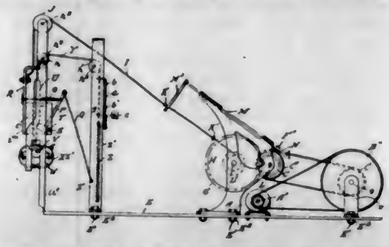
5. An apparatus for comparing a person to be fitted with a garment to a standard pattern, comprising a translucent screen having visible on the front side indicia of the standard pattern, a source of non-diffusing light positioned in back of and in spaced relation to the screen a sufficient distance to accommodate the person between the source of light and the back of the screen for forming on the screen a true size silhouette of the person when the person is interposed between the source of light and the screen, a means for positioning the silhouette into fitting relation with the visible indicia, and illuminating means in front of the screen for rendering visible the indicia of the patterns both inside and outside of the silhouette, whereby the conformance and non-conformance of the person to the standard pattern is visibly indicated.

2,159,036

AUTOMATIC DROP-TEST MACHINE

Claude W. McSwain, Raleigh, N. C., dedicated to the free use of the People of the United States
Application October 16, 1936, Serial No. 105,940
4 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A device of the class described comprising a base, supporting frames mounted on said base and having a stationary receptacle adapted to receive the impact of the article to be tested, a vertically reciprocating locking device, a beam, means for connecting the article to be tested to said beam which is arranged to be automatically

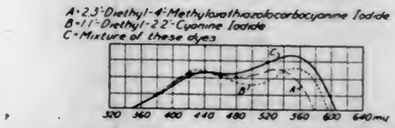


attached to and detached from said vertically reciprocating locking device, and means for producing such locking and unlocking by a latch and conjunctive member so arranged as to be secure in locking and at the same time to allow of being unlocked with no strain on the adjacent parts.

2,159,037

PHOTOGRAPHIC EMULSION

Charles E. K. Mees, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application January 16, 1937, Serial No. 120,967. Divided and this application October 15, 1937, Serial No. 169,186
15 Claims. (Cl. 95—7)

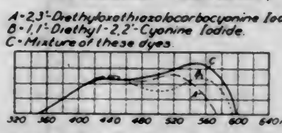


1. A photographic silver halide emulsion containing a supersensitizing combination of at least one sensitizing oxathiazolocarbocyanine dye having an alkyl group on the thiazole nucleus with at least one sensitizing pseudocyanine dye selected from the group consisting of 2,2'-cyanine dyes, benzothia-2'-cyanine dyes, selena-2'-cyanine dyes and oxazolo-2'-cyanine dyes.

2,159,038

PHOTOGRAPHIC EMULSION

Charles E. K. Mees, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application January 16, 1937, Serial No. 120,967. Divided and this application October 15, 1937, Serial No. 169,187
12 Claims. (Cl. 95—7)

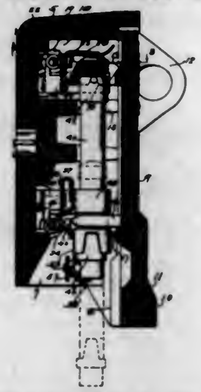


1. A photographic silver halide emulsion containing a supersensitizing combination of at least one sensitizing dye selected from the group consisting of oxathiazolocarbocyanine dyes devoid of substituents in the 4'- and 5'-positions and oxathiazolocarbocyanine dyes having an aryl group in at least one of the 4'- and 5'-positions with at least one sensitizing pseudocyanine dye.

2,159,039

INDICATING FUSE CUT-OUT

Edwin M. Meyer, Parkersburg, W. Va., assignor to Porcelain Products, Inc., Hancock County, Ohio, a corporation of Ohio
Application May 3, 1935, Serial No. 19,719
7 Claims. (Cl. 200—114)

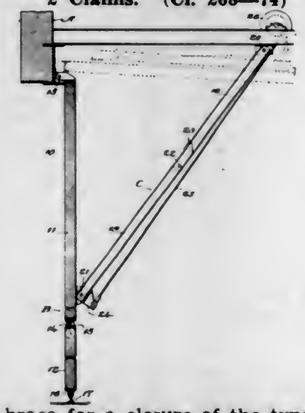


1. A fuse tube comprising an insulating tube, a ferrule on one end of the tube, a collar surrounding the tube and spaced from the opposite end thereof, a sleeve slidable over the tube between the ferrule and collar, said sleeve having an enlarged internal recess at one end for receiving the ferrule, means releasably holding the collar and sleeve in engagement, and tension means for separating the collar from the sleeve and moving the tube through the sleeve.

2,159,040

BRACING AND OPERATING MEANS FOR CLOSURES

David H. Morgan, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan
Application April 7, 1938, Serial No. 200,706
2 Claims. (Cl. 268—74)

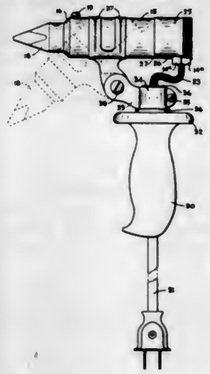


1. A brace for a closure of the type which is pivoted at its top for swinging movement between a substantially vertically disposed closed position and a substantially horizontally disposed open position, said brace comprising upper and lower arms pivotally connected together adjacent to their adjacent ends, a pivotal connection between the lower end of the lower arm and a bottom portion of the closure, a fixed support, a pivotal connection between the upper end of the upper arm and said fixed support at a point spaced laterally from the pivot of the closure, means limiting movement of the pivotal connection between said arms away from the closure when the latter is closed to a point only a slight distance beyond a straight line connecting the pivots of said arms with the closure and said fixed support, a member fixed to the lower arm adjacent to the lower end thereof and extending beyond the edge thereof remote from the closure, and an operating element connected with said member and extending diagonally upward therefrom contiguous to said brace and at an angle with respect to said brace, when the door is closed, such that a pull exerted on said member has the effect of first swinging said arms to move the pivotal connection between them in the direction of the closure beyond a straight line connecting the pivots of said arms with the closure and the fixed support and of then swinging the closure toward open position.

2,159,041

ELECTRIC SOLDERING DEVICE

Lembert H. Moulthrop, Bridgeport, Conn.
Application July 22, 1936, Serial No. 91,809
4 Claims. (Cl. 219—26)



2. A soldering device including a tubular shell enclosing and carrying a tubular electric heating element and a soldering bit in the heating element extended through one end of the shell and exposed through the opening in the opposite end of the shell and heating element, a hand grip, and means to connect the soldering device to one end of the hand grip to have adjustment about the longitudinal axis of the hand grip and to different angular positions relative to the hand grip on an axis extending transversely of the longitudinal axis of the hand grip and permit removal of the soldering bit from the shell and heating element without dismounting the soldering device from the hand grip.

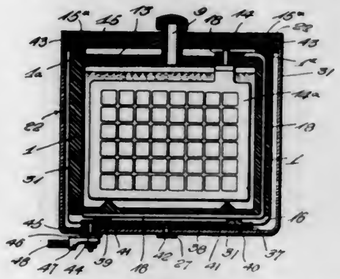
2,159,042

ELECTRICAL CONNECTION FOR STORAGE BATTERIES

Karl E. Odell, Fremont, Mich., assignor of forty-nine per cent to Henry E. Piltz, Hesperia, Mich.
Application June 8, 1936, Serial No. 84,186
1 Claim. (Cl. 136—171)

Electrical connections for storage batteries, comprising in combination, a storage battery

having a casing of insulation material, external laterally extending recesses in the bottom of said casing, connecting posts on said storage battery, a connecting member extending from each of said posts and into one of the recesses beneath said battery for presenting a flat contacting surface beneath said battery displaced from the plane of the bottom of said battery, bus bars aligned with the recesses beneath said battery



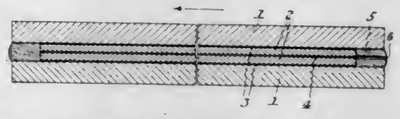
and having spaced pairs of serrated contacting portions projecting upwardly and into said recesses and engaging the flat contacting surfaces of said connecting members, the contacting portions of said bus bars and said connecting members being pressed into intimate connection by virtue of the weight of said storage battery, and means for adjusting the spacial relation of said bus bars for aligning said bus bars with the connecting members in said recesses.

2,159,043

METHOD OF HANDLING AND WORKING METAL MEMBERS

John B. Orr, Jr., Edgeworth, Pa.

Application December 24, 1936, Serial No. 117,509
24 Claims. (Cl. 29—189)



20. In a method of fabricating metal members, the steps of forming a self-contained group of metal members whose inner portions are closed off from the atmosphere, providing a non-oxidizing fluid in the closed off group, determining a suitable size of opening in the closed off group for maintaining a desired volume-pressure relationship between the non-oxidizing fluid in the group and fluid of the atmosphere during subsequent processing, providing an opening in the closed off group while retaining the group in a self-contained closed-off relationship of the predetermined size, and then suitably processing the group.

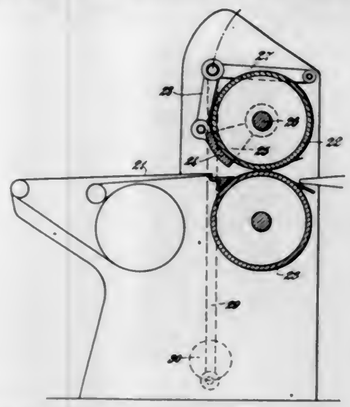
2,159,044

FEEDING DOUGH AND LIKE MATERIAL TO SHEETING AND LIKE MACHINES

John Currie Paterson, Peterborough, England, assignor to Baker Perkins Company, Inc., Saginaw, Mich.

Application October 21, 1936, Serial No. 106,865
In Great Britain November 2, 1935
3 Claims. (Cl. 107—12)

1. In combination, a dough sheeting or like machine comprising a pair of rolls arranged one above the other, an endless conveyor band supporting and feeding dough into the bight between the rolls, a tamping device comprising a transverse arcuate plate mounted for oscillation about



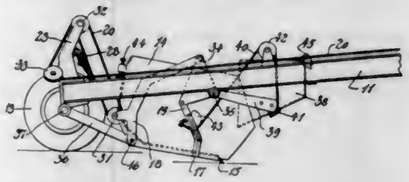
the axis of the upper roll and operative to press dough supported by said conveyor into said bight and power means for oscillating the tamping device.

2,159,045

WHEELED SCRAPER

Thomas R. Paulsen and Horace C. Beitzel, South Milwaukee, Wis., assignors to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application March 15, 1937, Serial No. 130,933
6 Claims. (Cl. 37—129)



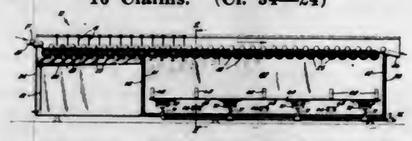
1. A scraper, having a frame, ground-supports for the frame, a digging bowl, lifting means applied only at the back of the bowl, hanging means separate from said lifting means for supporting the front of the bowl from the frame, additional brace means connecting the bowl to the frame, to convey the digging reactions from the bowl to the frame, and to cooperate with the connection about to be described; and an interconnection between the lifting means and the hanging means such that the lifting of the bowl at the back from the digging position will cause the hanging means to rise, but to a lesser extent than the back of the bowl, whereby to finally dispose the bottom of the bowl at a steep angle for dumping, characterized by the fact that the interconnection includes two links, one of which is pivoted to each side of the bowl adjacent the rear thereof, and each of which is operatively associated with the hanging means, and by the further fact that the lifting means is applied to these links at a point above the attachment of each link to the bowl, and from such a point on the frame that the direction of pull in the dumping position will pass above the point of attachment of the link to the bowl.

2,159,046

METHOD OF AND APPARATUS FOR REMOVING FREE WATER ADHERING TO THE OUTER SURFACES OF WHOLE FRESH FRUIT

Hale Paxton and Gerald C. Paxton, Santa Ana, Calif., assignors, by mesne assignments, to Food Machinery Corporation, a corporation of Delaware

Application January 28, 1936, Serial No. 61,182
10 Claims. (Cl. 34—24)



1. The method of removing free water adhering to the outer surfaces of fresh whole fruit while passing said fruit transversely across a series of substantially cylindrical parallel brushes which comprises the steps of: delivering the fruit to the valleys between adjacent brushes; rotating said brushes in a common direction to subject the fruit to a rapid brushing while in rolling contact with said brushes; establishing and maintaining a body of substantially still air beneath and in contact with the lower faces of said brushes; and heating said air to substantially raise the temperatures of the bristles and the air in the inter-bristle spaces of said brushes.

2,159,047

METHOD OF AND APPARATUS FOR REMOVING SURFACE MOISTURE FROM ROLLABLE FRESH WHOLE FRUIT

Hale Paxton and Gerald C. Paxton, Santa Ana, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application March 1, 1938, Serial No. 193,308
7 Claims. (Cl. 34—12)



1. In a drier for fresh whole fruit the combination of: a relatively long and substantially horizontal bed of rotary brushes; means for continuously rotating said brushes to rotate and brush fruit resting thereupon; a housing for enclosing a relatively shallow chamber coextensive horizontally with said bed and disposed therebeneath, said housing so confining air in said chamber as to permit said air to escape therefrom in practically no other way than upwardly between and through said rotary brushes; and means for supplying a stream of hot air to one end of said chamber at a rate to compensate for loss of hot air from said chamber caused by convection currents carrying said air up through and between said brushes, and being, therefore, sufficient to keep said chamber filled with said hot air despite said losses.

2,159,048

METHOD OF IMPROVING THE WORKABILITY OF NICKEL AND NICKEL ALLOYS

Leonard Bessemer Pfeil, Edgbaston, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 6, 1936, Serial No. 104,179. In Great Britain October 15, 1935
10 Claims. (Cl. 75—171)

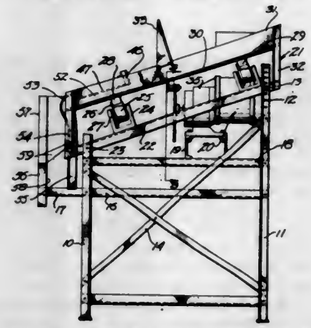
6. The process of counteracting the deleterious effect of excess amount of alkaline earth metal on the properties of nickel-chromium alloys which comprises subjecting a molten mass of nickel-chromium alloy to deoxidation treatment, subsequently treating said molten mass with about 0.01% to about 0.2% of alkaline earth metal and incorporating in said molten mass at least one element from the group consisting of arsenic, antimony and phosphorus in restricted and controlled amounts within the range of about 0.01% to about 0.2%, about 0.01% to about 0.25%, and about 0.01% to about 0.06%, respectively; and solidifying the thus-treated metal whereby sound solid nickel-chromium alloys are produced having improved properties and being devoid of the deleterious effect of an excess amount of alkaline earth metal.

2,159,049

CAN ALIGNING MEANS

Martin Quamma, San Diego, Calif.

Application June 26, 1937, Serial No. 150,586
16 Claims. (Cl. 198—33)



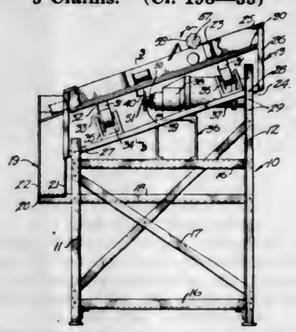
1. A can aligning device comprising a table on to which cans may be deposited in random arrangement, and over which they may travel, means for arranging the cans in a single layer upon the table as they travel, some of said cans assuming positions standing on end and other of said cans lying on their sides, and means for separating the cans which stand on their ends from the cans which lie on their sides, and means for disposing all of said cans in separate rows, the cans of each row being in alignment.

2,159,050

TALL CAN ALIGNING DEVICE

Martin Quamma, San Diego, Calif.

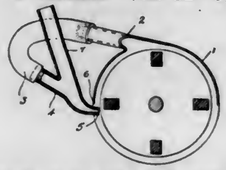
Application January 28, 1938, Serial No. 187,447
9 Claims. (Cl. 198—33)



1. A tall can aligning device comprising a vibratory floor along which cans may move,

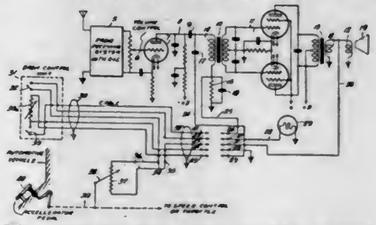
means for vibrating said floor to move said cans, means disposed above said floor and beneath which cans may roll, said means acting to overturn cans moving upon the floor on their ends, means cooperating with said floor for arranging the cans in uniform positions of longitudinal alignment, and a chute into which said cans are discharged while in said longitudinally aligned positions.

2,159,051
SAND BLASTING APPARATUS
Nelson J. Quinn, Toledo, Ohio, assignor of one-half to Horace B. Fay, Shaker Heights, Ohio
Application June 17, 1935, Serial No. 27,033
Renewed August 18, 1938
6 Claims. (Cl. 51—9)



3. In apparatus of the character described, the combination of a shaft, a plurality of blades operatively mounted thereon, a casing partially enclosing said blades, means for leading a portion of the air blast created by the rotary movement of said blades and directing the same radially inwardly toward said shaft, and means for supplying abrasive to said blast of air.

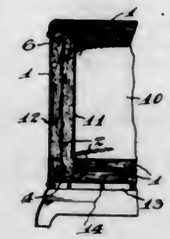
2,159,052
VOLUME CONTROL SYSTEM
James M. Riddle, Jr., West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1937, Serial No. 151,216
5 Claims. (Cl. 250—20)



1. The combination with mobile sound producing apparatus, of volume control means therefor, speed control means for exerting a control of volume for said apparatus, and dynamic volume range expansion means for said apparatus, said second named volume control means and dynamic volume range expansion means being independent of said first-named means, and said second named volume control means providing a predominating control with increased speed with respect to the control exerted by said volume range expansion means.

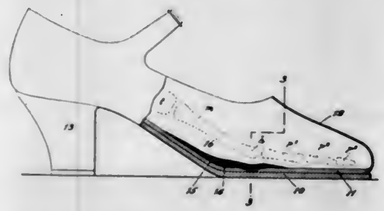
2,159,053
INSULATING BAT
Arthur D. Saborsky, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application November 29, 1935, Serial No. 52,013
4 Claims. (Cl. 20—4)

1. The combination of a vertical panel having top and bottom and side members defining an enclosed insulating recess therein, a compressible fibrous bat fitted in and substantially filling said recess, said fibrous bat being folded upon itself to form a double thickness and having the free ends thereof lying in juxtaposition at the



bottom of said recess, and a rigidifying core embedded in the fold of said bat supporting the same and extending from the underside of the folded edge to the free ends of said bat and resting directly on the said bottom member.

2,159,054
METATARSAL CUSHION
Benjamin J. Silver, New York, N. Y.
Application November 20, 1936, Serial No. 111,811
13 Claims. (Cl. 36—71)

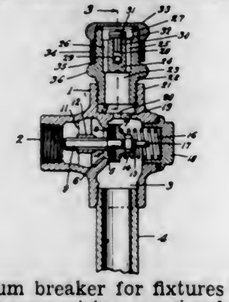


1. In a shoe, the combination of an outer sole, an inner sole provided at the region of the ball of the foot in its upper surface and spaced from the edges of the sole with a shallow depression, a one piece metatarsal arch pad fitting to said inner sole depression, said pad forming a segment of an egg-shaped form with its major axis extending longitudinally of the shoe and with the portion forming the minor axis underlapping the heads of the second, third and fourth metatarsal bones and having its opposite edges spaced from the adjacent opposite edges of the inner sole thus leaving the heads of the first and fifth bones at least partially uncushioned, and said pad provided on its upper surface with three shallow, elliptical depressions spaced apart transversely and along the minor axis, and located to receive the portion of the sole of the wearer immediately beneath the heads of the second, third and fourth metatarsal bones and said pad in the parts thereof containing these three depressions being of substantially equal thickness thereby to provide equal cushioning effects under the heads of the three middle metatarsal bones, and said pad having its point of highest elevation located under the shaft of the second metatarsal bone and reducing in elevation gradually in all radial directions from said point and forwardly to a position terminating approximately mid-length of the middle first phalanges.

2,159,055
PIGMENT TREATMENT PROCESS
Clifford K. Sloan and Gordon D. Patterson, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 2, 1937, Serial No. 145,938
9 Claims. (Cl. 134—39)

1. A pigmented composition which comprises a zinc sulfide pigment and a guanidine having a basic reaction and sufficient in amount to prevent livering.

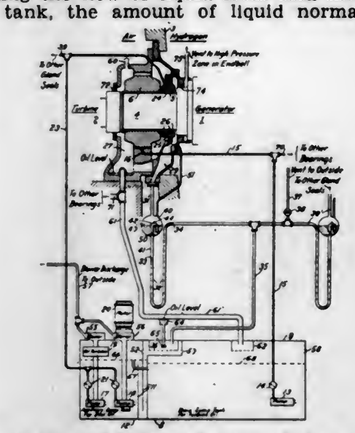
2,159,056
VACUUM BREAKER
William E. Sloan, Chicago, Ill., assignor to Sloan Valve Company, Chicago, Ill., a corporation of Illinois
Application July 14, 1934, Serial No. 735,139
2 Claims. (Cl. 277—60)



1. A vacuum breaker for fixtures having submerged inlets comprising a casing having an inlet and an outlet, a valve seat intermediate the inlet and outlet, a valve engaging said seat, a hollow tubular member connected with said casing, a member having a screw threaded connection with said hollow tubular member and having a hollow portion, a solid portion beyond said hollow portion, a recess in said member, a passageway connecting said hollow portion with said recess, a second passageway in said solid portion extending partway therethrough; a cross passageway connected with said central passageway and extending to the exterior surface of said member, a valve device in said recess having a stem projecting into said second passageway, the stem being of smaller cross sectional area than the passageway, said valve device being normally closed and being held closed by the pressure on the interior of the said member having a screw threaded connection with the hollow tubular member and being opened by atmospheric pressure.

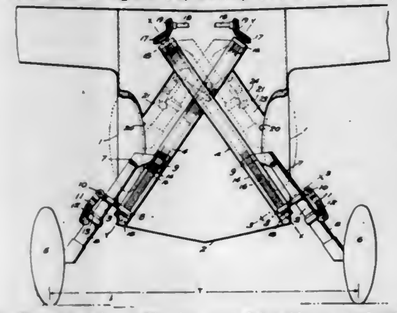
2,159,057
HYDROGEN-COOLED MACHINE WITH GLAND SEALS
Charles C. Sterrett, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1938, Serial No. 210,291
4 Claims. (Cl. 286—19)

1. A hydrogen-cooled machine having an explosion-resistant, substantially hermetically tight, hydrogen-filled housing, a rotatable shaft extending through the housing, a gland seal surrounding said shaft where it extends through said housing, a sump tank for a sealing liquid, means for supplying sealing liquid from said sump tank to said gland seal, and drainage means for returning sealing liquid from both sides of said gland seal to said sump tank, characterized by said drainage means from the hydrogen side of the gland seal including an intermediate settling tank, and limited-opening means for retarding the flow of liquid from said intermediate tank, the amount of liquid normally en-



trapped in said intermediate tank being so related to its retarded rate of flow that it takes longer, for all of said entrapped liquid to be discharged, than the longest possible duration of excessive pressures as a result of an explosion in the hydrogen-cooled machine.

2,159,058
LANDING GEAR FOR AMPHIBIAN AIRPLANES
James G. Taylor, San Rafael, Calif., and Jean A. Roché and Otto F. Spevacek, Dayton, Ohio
Application June 24, 1937, Serial No. 150,148
4 Claims. (Cl. 244—101)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

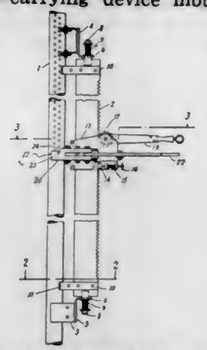


1. In an aircraft, in combination, a body, a pair of angularly arranged supports extending downwardly and outwardly in a vertical plane transverse to said body and connected in fixed relation thereto, a pair of wheel supporting members, and means rigidly connected to each wheel supporting member and slidably engaging a corresponding support for movement in the direction thereof.

2,159,059
ELECTRIC WELDING
James E. Trainer, Fairlawn, Crawford Ziegler, Barberton, Clarence H. Yeo, Akron, and William S. Jordre, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application December 28, 1936, Serial No. 117,776
28 Claims. (Cl. 219—4)

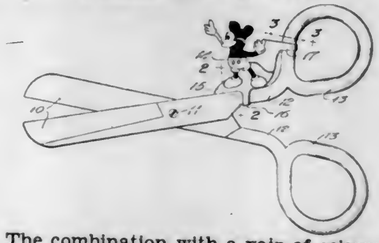
7. Resistance-welding apparatus including a

longitudinally extending member for removable attachment to a tube in parallel relation thereto, an electrode-carrying device mounted on said



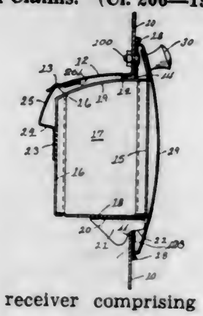
member, and means associated with said member for adjusting the position of said device with respect to said tube for the welding of studs to the tube at spaced locations.

2,159,060
SCISSOR TOY
William R. Tuttle and Charles W. Stickel, Rochester, N. Y., assignors to The Kurlash Company, Inc., Rochester, N. Y., a corporation of New York
Application September 16, 1937, Serial No. 164,203
3 Claims. (Cl. 46—116)



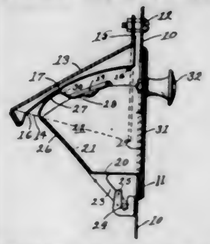
3. The combination with a pair of scissors including a thumb receiving bow and a shank extending forwardly therefrom, a toy figure having a base resting on top of said shank, means securing said base to said shank, and a second means securing an upper part of said figure to the forward part of said bow.

2,159,061
ASH RECEIVER
John Visser, Grand Rapids, Mich.
Application March 29, 1935, Serial No. 13,690
Renewed July 5, 1938
14 Claims. (Cl. 206—19.5)



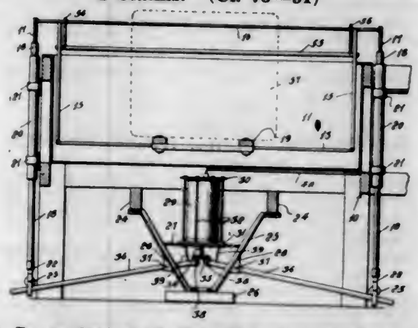
9. An ash receiver comprising a supporting structure having a cover, an ash container hingedly mounted in said structure for arcuate movement therein and having one of its sides provided with a resilient portion, said resilient portion being constructed and arranged to exert at all times when the container is in the structure a container retaining pressure directly against said cover, but being disengageable therefrom by the flexing of said resilient portion to remove the container from the structure said container having its bottom side provided with a rigid hinge member having a notched bearing edge for hingedly embracing said supporting structure.

2,159,062
ASH RECEIVING CONTAINER
John Visser, Grand Rapids, Mich.
Application April 4, 1935, Serial No. 14,619
10 Claims. (Cl. 206—19.5)



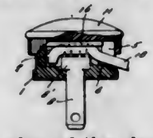
6. In a container adapted for tilting movement within an opening in a supporting plate, the rear side of said plate having a hood secured thereto and forming a canopy for said container, said container being provided with a member spaced from and disposed in parallelism with its bottom and adapted to be hingedly seated within a pair of spaced hook members disposed below and inside said opening, and with spring means co-acting between said hood and said container for resiliently retaining said parallel member within said hook members.

2,159,063
RADIATOR TESTING AND REPAIR APPARATUS
Clyde T. Walker, Orlando, Fla.
Application August 5, 1937, Serial No. 157,602
4 Claims. (Cl. 73—51)



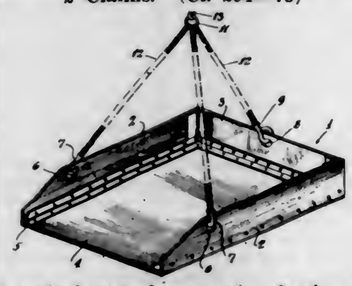
4. In a device of the class described, a receptacle adapted to contain water, a rod disposed longitudinally of and above said receptacle having depending arms adapted to be slidably mounted in sleeve members secured adjacent the opposite ends of the receptacle, a piston mounted centrally of and beneath the receptacle, operating means to project said piston downwardly, levers pivotally mounted adjacent said piston and having their adjacent ends in engagement therewith, spring means urging said ends upwardly to raise the piston, said levers extending longitudinally of the receptacle with their free ends in engagement with said depending arms, a frame secured to said rod and depending into the receptacle, said piston being operable to raise and lower the frame to submerge or raise a radiator supported thereby, and means to supply air under pressure to the radiator to detect leaks therein when submerged in the receptacle.

2,159,064
ELECTRICAL CONNECTOR
Lawrence Walter, Berkeley, Calif.
Application October 27, 1937, Serial No. 171,361
2 Claims. (Cl. 173—361)



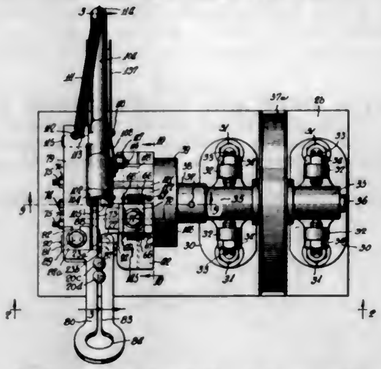
1. An electric plug of the class described comprising a body part having a pair of substantially arcuate recesses therein, each of V-shape in cross section, a pair of substantially T-shaped prongs carried by the body part and having their heads extending into the recesses through the apexes of said recesses, each head being of arcuate shape and having spikes at its upper edge, said body part having an opening therein for conductors to enter the recesses and be placed over the spikes, a cap having parts for entering the recesses to force the spikes to penetrate the conductors said parts of the cap having arcuate grooves in their lower edges of V-shape in cross section and means for fastening the cap to the body part.

2,159,065
SCALE BOX AND SUSPENSION THEREFOR
Francis H. Weeks and Richard B. Weeks, New York, N. Y.
Application June 1, 1936, Serial No. 82,699
2 Claims. (Cl. 294—73)



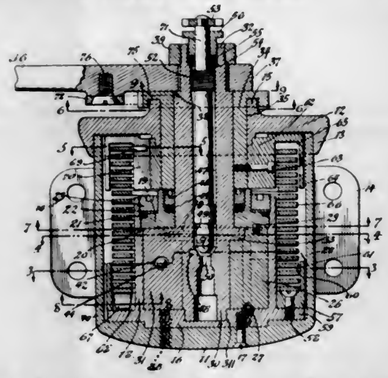
1. A scale box and suspension having a substantially flat and smooth bottom, said box having one back wall, two side walls and an open end, a carrying cable, flexible suspension means connected to said cable and to said back wall, and flexible suspension means connected to said cable and to each side wall adjacent said open end, said last mentioned suspension means being releasable on an inclined surface by slacking said cable, said box being substantially free from external projections on the top and bottom thereof and adapted to slide down an uneven inclined surface.

2,159,066
BEAD MAKING MACHINE
Albert Weiner, Providence, R. I.
Application April 19, 1937, Serial No. 137,761
23 Claims. (Cl. 164—47)



1. A process of automatically cutting coated beads or synthetic pearls from pin holders therefor which comprises supplying the pin holders one at a time to a knife edge, applying the knife edge to the junction between the bead and the pin and rolling the pin holder against the knife edge and finally lifting the beads off the pins.

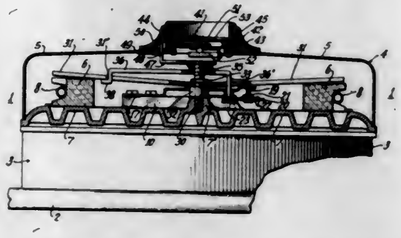
2,159,067
DOOR CLOSER AND CHECK
Norman J. Weiser, Buffalo, N. Y.
Application October 26, 1937, Serial No. 171,061
9 Claims. (Cl. 16—58)



1. A door closer and check comprising a pressure cylinder containing a resistance liquid and having a compression chamber and a non-compression chamber, a vane adapted to oscillate in said cylinder between said chambers during the opening and closing movements of the door, a spring which is increasingly tensioned during the opening movement of the door and while the vane is moving toward said non-compression chamber and decreasingly tensioned while the door is closing and said vane is moving toward said compression chamber, and controlling means for controlling the movement of said vane toward the compression chamber so as to permit the resistance liquid to flow with increasing freedom from the compression chamber to the non-compression chamber until the vane has nearly reached the end of its stroke toward the compression cham-

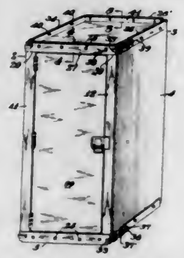
ber, then temporarily arrest the flow of liquid from the compression chamber to the non-compression chamber, and then permit the liquid to again flow freely from the compression chamber to the non-compression chamber during the last part of the movement of said vane toward the compression chamber.

2,159,068
WAFFLE IRON AND TEMPERATURE CONTROL AND INDICATOR THEREFOR
Allan M. Young, Meriden, Conn., assignor to Manning, Bowman & Co., Meriden, Conn., a corporation of Delaware
Application March 4, 1938, Serial No. 193,866
7 Claims. (Cl. 219—19)



2. In an electric waffle iron, a cover therefor, a temperature indicating unit mounted upon said cover, an annular adjustable knob journaled for rotary movement about said unit, a thermostatic element for automatically regulating the temperature and operative connections between said annular knob and said thermostatic mechanism for setting the thermostatic element for different temperatures.

2,159,069
CABINET
Philip Zalkind, New York, N. Y.
Application August 15, 1934, Serial No. 739,962
2 Claims. (Cl. 312—144)



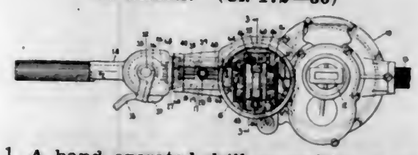
1. A cabinet having an open front side and comprising three side walls made of sheet material having fold lines along which the same is manually foldable to form said walls, an inset for the top and bottom engaging the upper and lower edges of said side walls, and metallic members secured to the end edges of said walls and foldable on predetermined score lines into a U for engaging the adjacent edge of said inset to secure said inset from falling away from said cabinet and a metallic member secured to an edge of said inset and foldable on predetermined score lines into a U for engaging the adjacent cabinet wall, for securing said inset in place.

2,159,070
CONTAINER AND PARTS THEREOF
Philip Zalkind, New York, N. Y.
Original application October 16, 1933, Serial No. 693,841. Divided and this application February 1, 1936, Serial No. 61,858
3 Claims. (Cl. 229—23)



1. In a casing tube having walls, an inset member comprising a wall and adjacent flaps extending therefrom and bendable on score lines to form a tray-like structure with said wall; a metallic member on at least one of said flaps extending in the same plane as said flap and beyond the edge thereof, said metallic member being bendable for engaging a wall of said casing and preventing inward movement of said inset member into said casing; and means on at least one of the walls of the casing for engaging a flap of said inset members and preventing outward movement thereof away from the casing; said casing and inset member being adapted to be shipped flat.

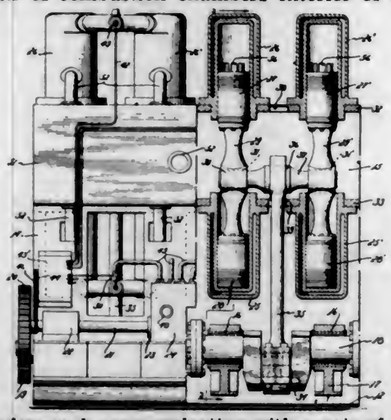
2,159,071
DRILL
Walter J. Bauroth, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application April 14, 1936, Serial No. 74,311
Renewed May 13, 1938
26 Claims. (Cl. 172—36)



1. A hand operated drill comprising a motor and a casing, a drill bit holder extending from said casing, handles extending laterally of said casing and rigidly attached thereto against rotary or sliding movement, switch means for controlling the motor, and control means for said switch comprising a finger operated lever on one handle, an operating shaft extending through said handle, spring means biasing said shaft to a position to open said switch, and means including a pair of reduction gears for connecting said lever and said shaft.

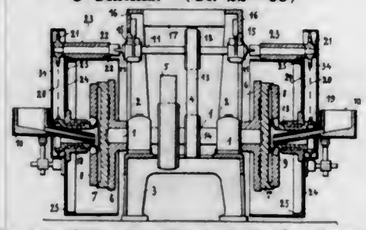
2,159,072
ENGINE
Lloyd M. Beall, Dearborn, and Frederick P. Connors, Detroit, Mich.
Application April 15, 1937, Serial No. 136,970
6 Claims. (Cl. 123—53)

5. In an engine of the class described, a rotatable crankshaft; a pair of cylinders positioned in proximity and parallel to each other; a second pair of cylinders positioned in proximity and parallel to each other and spaced from and in axial alignment with said first-mentioned pair; a piston slideably mounted in each of said cylinders; means for connecting the pistons in each aligned pair of cylinders with each other; a connecting rod connected at one end to a crank on said crankshaft; a cross bar projecting through the opposite end of said connecting rod and fixed thereto and projecting at its opposite ends into bearings formed in said connecting means; and a pair of combustion chambers exterior of said



cylinders each communicating with a pair of cylinders adjacent its end and adapted for delivering fuel simultaneously into each of the cylinders with which it communicates, said combustion chambers being outwardly offset from said cylinders sufficiently to provide clearance for the connecting rod in its movements.

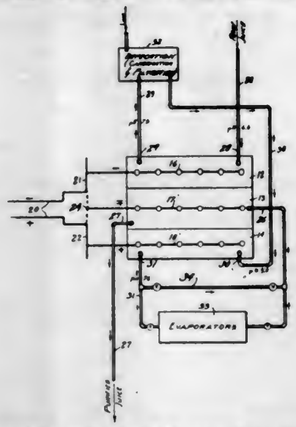
2,159,073
MOLDING MACHINE AND MOLD FOR THE CENTRIFUGAL CASTING OF ANNULAR BODIES
Walter Bremicker, Wuppertal-Barmen, Germany
Application October 6, 1936, Serial No. 104,265
In Germany January 17, 1936
3 Claims. (Cl. 22—65)



1. In a molding machine of the kind set forth for the centrifugal casting of annular bodies, the subcombination of: a frame; molds mounted on said frame; protecting covers arranged on said frame and surrounding said molds; inlet members associated with said molds; bearings for said inlet members arranged on said protecting covers; and supporting members on said protecting covers displaceable in slots in said frame in such manner that the position of said inlet members with regard to said protecting covers can be adjusted axially to suit different conditions.

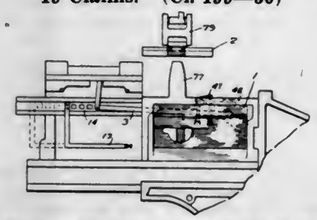
2,159,074
PROCESS FOR VARYING THE pH VALUE OF SOLUTIONS
Robert E. Briggs, Rocky Ford, Colo.
Application April 5, 1937, Serial No. 135,105
3 Claims. (Cl. 204—24)

1. In a sugar refining process having raw juices and second carbonation juices, a method of simultaneously reducing the alkalinity of the carbonation juices, to increase the efficiency of crystallization, while increasing the alkalinity of the raw juices to precipitate the alkaline earth metals therefrom for softening said juices comprising: simultaneously flowing both juices independently through an electrolytic cell, the raw



juices through the cathode compartment and the carbonation juices through the anode compartment, to effect a transfer of positive ions from the carbonation juices to the raw juices, thus employing the undesirable ions in the carbonation juices to effect a purification of the raw juices; and drawing off the two juices from said cell independently of each other.

2,159,075
MATRIX TRANSFER
David Diamond, Brooklyn, N. Y.
Application October 8, 1937, Serial No. 168,036
19 Claims. (Cl. 199—36)

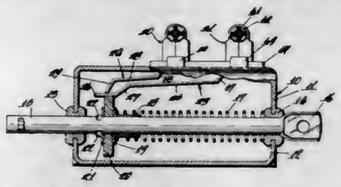


1. A second elevator for Linotype and other similar machines having an inverted channel shaped head, with shutters at the lower edges of the sides for holding matrices by shoulders at the upper ends of the sides.

2,159,076
ELECTRICAL CONTROL AND CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application May 31, 1935, Serial No. 24,254
9 Claims. (Cl. 200—163)

1. An electric switch, comprising: an insulating base having an aperture; relatively movable switch members; terminal means having an open ended tubular portion extending into said aperture, said terminal means having a transverse

aperture for receiving an electrical conductor terminal; detent means, disposed within said tubular portion, for cooperation with said transverse aperture and the terminal; resilient means, disposed within said tubular portion for biasing

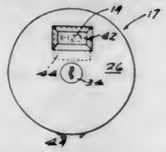


said detent means into cooperating position; one of said switch members having a portion engaging said resilient means and extending over said open end of said tubular portion; and means for causing relative movement of said switch members.

2,159,077
PRODUCTION OF VALUABLE HYDROCARBONS AND THEIR DERIVATIVES CONTAINING OXYGEN
Franz Duftschmid, Heidelberg, and Eduard Linckh and Fritz Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application November 17, 1936, Serial No. 111,306
In Germany November 18, 1935
6 Claims. (Cl. 260—449)

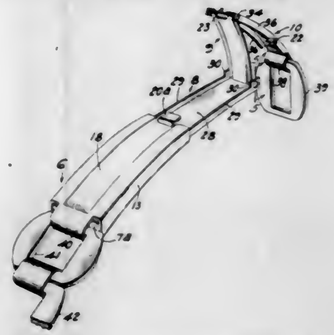
1. A process for the catalytic conversion of mixtures comprising from 1 to 8 parts of carbon monoxide and from 9 to 2 parts of hydrogen in each 10 parts of the sum of these gases at an elevated temperature between 200 and 420° C. into substances selected from the group consisting of hydrocarbons and their oxygen derivatives in the presence of a catalyst promoting this conversion which comprises carrying out this conversion in a liquid medium consisting of the oils obtained by a previous conversion of an amount of the same kind of initial materials under the same or similar conditions and which contains substantial amounts of constituents the boiling point of which, is within the boiling range of benzines, and applying a pressure under which the said liquid medium is established.

2,159,078
SAFETY DEVICE FOR AUTOMOTIVE VEHICLES
Charles K. Goldstein, San Francisco, Calif.
Application February 23, 1937, Serial No. 127,105
10 Claims. (Cl. 40—2.2)



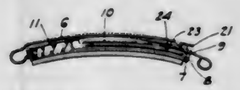
2. The combination with the fuel inlet of the fuel container of a vehicle, of a closure member for the inlet, locking means for the closure member, a normally hidden identification member related to the locking means, and means operated by the locking means to move said identification member into view when said locking means is opened, and to move said identification member out of view when said locking means is locked.

2,159,079
BRACELET ATTACHMENT
Albert B. Goulden, Los Angeles, Calif.
Application July 15, 1938, Serial No. 219,399
5 Claims. (Cl. 24—71)



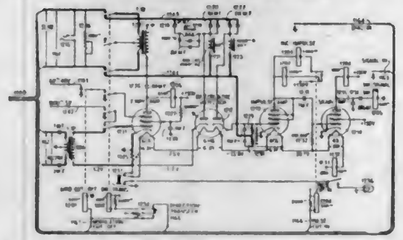
3. In a foldover connecting means for bracelets, an elongated arcuate casing having along each side a dependent flange, each of said flanges having an incurved lower part the free edge portion of which is directed upwardly causing said portion to form an upwardly directed guide rail, a wrist plate member having downwardly directed grooves which fit over said rails, furnished with an upturned end portion which is continued to form a tongue convexed to a less extent than the arcuate portion of said casing, the mid-length portion of the arch of said tongue abutting the inner surface of the arch of said casing, said tongue having a projecting portion which is upwardly deflected to form a finger nail lift, there being a pawl-forming depression in said tongue adjacent to said lift, an elongated extrudable member having a series of ratchet elements to cooperate with said pawl, and a spring tending to extrude said extrudable member.

2,159,080
BRACELET ATTACHMENT
Albert B. Goulden, Los Angeles, Calif.
Application November 23, 1938, Serial No. 241,995
4 Claims. (Cl. 24—71)



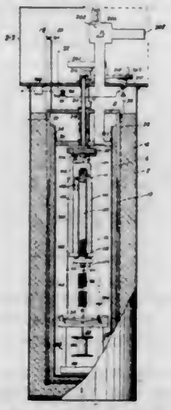
4. In a construction of the kind described, an elongated casing member having side walls and an end wall, a tongue of resilient sheet metal furnished at one end with a saddle part seated upon said end wall, a cover member mounted upon said casing member in a position to keep said saddle portion of said tongue in place upon said end wall, said cover member and said tongue both being longitudinally convexed, the normal convexity of said cover member thereby limiting the contact area between said cover member and tongue to the mid-length portion of the latter, a spring within said casing member, and an extrudable member within said causing member engaged by said spring, said tongue being furnished adjacent its front end with a tooth to normally restrain said extrudable member from being extruded by the force of said spring, said tongue being manually deflectable to release its tooth from said extrudable member.

2,159,081
TELEPHONE SYSTEM
Otho D. Grandstaff, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 14, 1936, Serial No. 110,864
13 Claims. (Cl. 179—16)



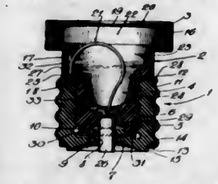
1. In a signalling system wherein received modulated carrier current is rectified to produce direct current, a responding relay arranged to respond to impulses of rectified carrier current to repeat corresponding signal pulses into a local circuit, a circuit resonant at the modulation frequency of the received carrier current, a signal relay responsive to the flow of resonant current in said resonant circuit, an amplifying device for supplying power to said resonant circuit, and circuit connections for supplying input power to said amplifying device from the circuit of the first named relay.

2,159,082
APPARATUS FOR MAKING GRAVITY MEASUREMENTS
Kenneth Hartley, Houston, Tex., assignor, by mesne assignments, to Humble Oil & Refining Company, Harris County, Tex., a corporation of Texas
Application March 31, 1934, Serial No. 718,453
9 Claims. (Cl. 265—1.4)



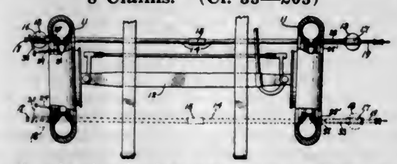
1. A measuring instrument of the character described comprising a mass, means indicative of the position of the mass, a spring for exerting a major vertical effort upon said mass, a second spring for exerting an additional minor vertical effort upon said mass to bring the mass to a determinable position, means whereby the effort exerted by the second spring may be determined, means for locking the mass and springs in a zero position, and supporting devices, said devices comprising separate supporting elements for the locking means and the mass and a common member, said supporting elements being joined only at the common member.

2,159,083
FUSE
Joseph E. Hagendorn and Jean Vervueren, Hewlett, N. Y.
Application March 30, 1936, Serial No. 71,593
7 Claims. (Cl. 200—119)



1. The combination with the socket structure of a cut-out box, of an adapter, means for anchoring said adapter in said socket structure against displacement, a fuse plug having a fuse strip, the adapter and fuse plug being composed of insulating material, a conductive shell on said adapter connected to one terminal of the system to be protected, said shell having an annular plate at one end of said adapter, there being a centrally disposed opening in said adapter, a spring finger disposed in, and secured to, said socket structure and connected to another terminal of the system to be protected and spaced from the lower face of said adapter but in alinement with said central opening, a conductive annular plate including an offset yieldable portion on said fuse plug connected to one terminal of said fuse strip, a conductive projection on said fuse plug connected to the other terminal of said fuse strip, and cooperating threads on said fuse plug and adapter to facilitate securing the plug in said adapter and pressing the yieldable portion of said latter plate into engagement with the annular plate of said shell, and causing said projection to extend through said central opening to engage said spring finger.

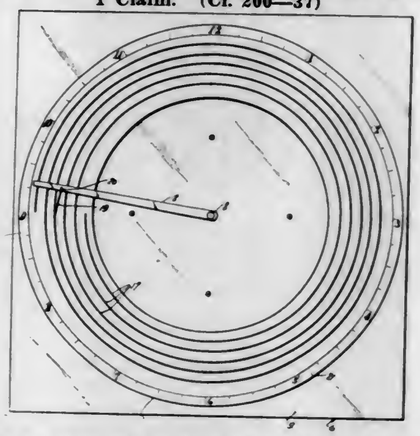
2,159,084
WHEEL-ALIGNING GAUGE
Harry P. Harrison, Chicago, Ill., assignor of one-half to Irving L. Wiener, Chicago, Ill.
Application May 23, 1938, Serial No. 209,465
8 Claims. (Cl. 33—203)



1. A wheel aligning gauge comprising a pair of standards provided with base means thereunder for supporting them upright, cross means having its ends detachably connected to said standards to retain them properly spaced, a bracket on each standard, a gauge member and means for mounting it stationary but adjustable on the bracket of one of said standards adapted to engage a rim of a pair of wheels, and a graduated gauge member and means for mounting it movably on the bracket of the other standard and provided with means to limit its movement in one direction relative to the standard and the associated wheel, also graduated means mounted in said graduated gauge member being movable

longitudinally thereof and provided with resilient means to hold it against movement in one direction relative to said standard and wheel.

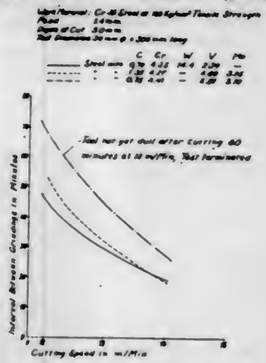
2,159,085
TIME OR TIME-CONTROL SWITCH
Harry Glenn Heil, Coalport, Pa.
Application February 19, 1938, Serial No. 191,362
1 Claim. (Cl. 200—37)



In a device of the kind described, a flat base member, an electrically conductive operating shaft journaled medially and perpendicularly through this base member, an insulated conductor strip extended radially over the back of the base with its inner end electrically contacting the shaft and its outer end carrying a terminal, a flat insulation annulus anchored on the outer face of the base concentrically with the outer extended end of the shaft, a flat metal contact annulus anchored upon the insulation annulus the same being grooved on its outer face concentrically with the operating shaft, the margin of the annulus being calibrated to denote time intervals, an electric terminal contacting the metal annulus and being extended through the insulation annulus and base member and protruded at the opposite side thereof, a conductor arm anchored at its inner end to the outer end of the operating shaft to rotate therewith and extended radially out over the face of the grooved metal annulus, a contact finger pivotally connected at one end with the outer end of the conductor arm the inner free end of the finger being adapted to be extended trailingly relative to the conductor arm rotating in either direction and to be located within the said grooves of the metal annulus to traverse same as the arm revolves, means for rotating the said operating shaft, and a removable insulation coating applied to the grooves of the metal contact annulus, whereby said coating may be removed at selected points of the grooves to close an electrical circuit through the contact finger and metal annulus.

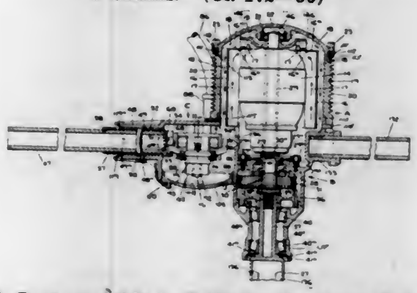
2,159,086
MANUFACTURE OF HIGH SPEED STEELS
Eduard Houdremont and Hans Schrader, Essen, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany
Application February 24, 1938, Serial No. 192,289
In Germany September 30, 1937
3 Claims. (Cl. 75—126)

1. High speed steels composed of 0.6–1.0% carbon, 1.0–6.0% chromium, more than 1.0 and less than 5.0% molybdenum, 1.0–3.0% vanadium, re-



mainder substantially all iron with the normal impurities.

2,159,087
DRILLING MACHINE
Robert K. Jeffrey, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application May 14, 1934, Serial No. 725,504
Renewed October 26, 1938
7 Claims. (Cl. 172—36)

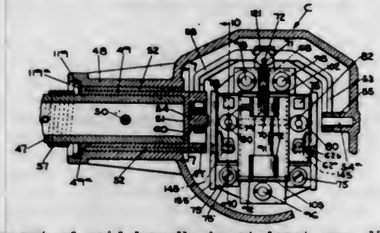


3. In a portable tool, the combination with a flame proof casing, of a motor in said casing, operating mechanism driven by said motor, a switch for controlling said motor, a flame proof casing for said switch, said two casings having communication whereby the air in each may circulate in the other, and fan means driven by said motor for circulating the air in both of said casings.

2,159,088
DRILLING MACHINE SWITCH
Robert K. Jeffrey, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 14, 1934, Serial No. 725,504. Divided and this application January 16, 1936, Serial No. 59,421
7 Claims. (Cl. 200—52)

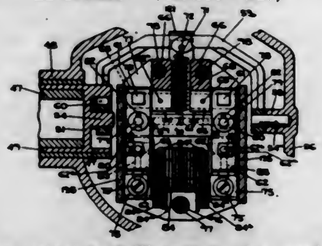
4. In an electric switch, the combination with a frame, of a stationary contact carried by said frame, a movable contact adapted to cooperate therewith, a pivoted lever for actuating said movable contact, a spring connecting said lever and movable contact in position to pass to opposite sides of the pivot of the lever so that movement of said lever results in a quick movement of said movable contact to and from said stationary contact, a rotary handle for actuating said lever, and

an additional spring connecting said handle and said lever so constructed and arranged that



movement of said handle in at least one direction winds up said additional spring to effect a quick movement of said lever.

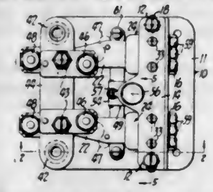
2,159,089
DRILLING MACHINE SWITCH
Robert K. Jeffrey, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original applications May 14, 1934, and January 16, 1936, Serial Nos. 725,504 and 59,421. Divided and this application March 12, 1938, Serial No. 195,599
11 Claims. (Cl. 200—147)



1. In an electric drill switch, the combination with a base of insulating material, of a pair of spaced-apart fixed switch contacts carried by said base, a pivoted insulating carrier, spaced-apart movable switch contacts mounted on said carrier in co-operative relation to said fixed contacts to form two circuit breakers which close and open together, means for operating the switch including the separation of the movable contacts from the fixed contacts with a snap action, a common blow-out coil connected in series with both circuit breakers and having poles at its opposite ends, and means for mounting said blow-out coil on said base with said poles closely adjacent the points of engagement between the movable contacts and the fixed contacts of said circuit breakers to aid the said snap action in extinguishing the arcs between the disengaging contacts when the switch is opened.

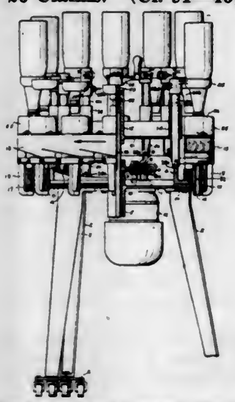
2,159,090
THERMOSTATIC SWITCH
Arthur J. Kercher, Berkeley, Calif.
Application November 1, 1937, Serial No. 172,068
7 Claims. (Cl. 200—139)

1. In a thermostatic switch, a pair of bi-metal strips responsive to temperature changes, a pair of members to which corresponding ends of said bi-metal strips are secured, a pair of contact arms, means forming operative connections between the other ends of said bi-metal strips and said arms, whereby flexing of said bi-metal strips in response to temperature changes are caused to operate said contact arms, means for adjusting the position of one of said members with respect to the other, whereby operation of said contact arms can be synchronized for a given



temperature level, and means for simultaneously adjusting the temperature level of operation of both said bi-metal strips.

2,159,091
APPARATUS FOR DIPPING OBJECTS
William H. Kopitke, Toledo, Ohio, assignor, by mesne assignments, to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application February 29, 1936, Serial No. 66,399
26 Claims. (Cl. 91—46)

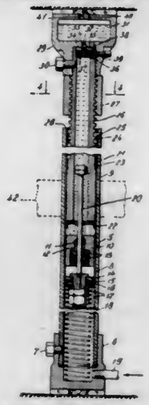


1. A dipping machine comprising a series of travelling receptacles affording a series of individual pools containing coating medium into which bottle necks or like articles may be successively dipped, travelling article carrying means movable with the pools, means for causing relative approach of successive article carriers and successive individual associated pools to successively submerge the article necks of articles carried by the carriers therein and for thereafter causing opposite relative movement so that the article necks are successively gradually withdrawn from submergence in the pools and means including a tank and pumping means to circulate the coating medium successively and continuously from the tank to a pool back to the tank and then to another pool in succession.

2,159,092
HYDRAULIC DRILL COLUMN
Archibald R. Lawrence, Halifax, Nova Scotia, Canada
Application November 24, 1936, Serial No. 112,506
6 Claims. (Cl. 255—53)

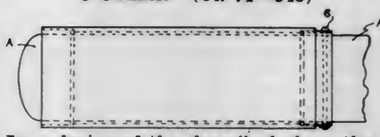
1. A portable column for supporting a drilling device comprising a cylinder having an unobstructed exterior portion of substantial length along which the mounting of a drilling machine may slide, a plunger movable therein, a member extending across said cylinder and at least

in part movable longitudinally thereof, a hydraulic medium within said cylinder at one side of said member, means for admitting fluid to the side of said member opposite the hydraulic medium for moving at least a part of said member longitudinally of the cylinder in one direction, said member substantially preventing flow of the actuating medium therepast, reciprocation of said



member causing a displacement of at least a portion of the hydraulic medium and an advancement of the plunger, means for holding the plunger in its advanced position, a reservoir for hydraulic medium formed within the column, and means actuated by return movement of said member for supplying hydraulic medium from said reservoir to the cylinder.

2,159,093
HANDLE FOR OARS, CRANKS, AND THE LIKE
Joseph J. Liss, Chicago, Ill.
Application October 6, 1937, Serial No. 167,610
3 Claims. (Cl. 74—543)



1. In a device of the described class, the combination of a relatively long inner cylindrical tube having an annular end enlargement forming an annular shoulder, a ring in juxtaposition to said annular shoulder, an outer cylindrical tube enclosing said inner cylindrical tube, offset annular shoulders at each end of said outer cylindrical tube, a ring in juxtaposition to said innermost annular shoulder, a retaining ring insertable into said outer cylindrical tube, said retaining ring and said inner cylindrical tube being provided with apertures in cross registry with one another, and a bolt insertable therethrough and through the article on which said device is to be mounted adapted to fasten said device in operable position.

2,159,094
TABULATING MACHINE
Harry T. Livingston, Brooklyn, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 4, 1934, Serial No. 718,903
13 Claims. (Cl. 235—61.7)

6. In a device for determining whether record cards bearing serial number representations are arranged in serial order, the combination of means for sensing the number representations on said cards, means for feeding said cards to said sensing means in succession, an accumulator, means cooperating with said sensing means for entering the serial number from one of said cards into said accumulator, means for adding a unit in said accumulator for each card sensing operation, a readout device associated with said accumulator, and means cooperating with said readout device and said sensing means for comparing the total amount in said accumulator with the number representations sensed on a card to determine whether two successive cards are numbered serially.



10. In a machine controlled by record cards representing groups of consecutive numbers with one consecutive number representation on each card and the cards arranged in consecutive order, means for feeding the cards in succession, means for sensing the number representations on the cards, means for counting the cards, means under control of said sensing means for determining whether the first and second cards of a group bear successive consecutive number representations, means under control of said sensing means for determining whether the second card and cards following the second card bear representations following in consecutive order, and means selectively called into operation by either of said determining means and under control of said counting means for printing a record of the total number of consecutively numbered cards in each group.

2,159,095
DIAL
Edward K. Madan, Maplewood, N. J.
Application September 5, 1936, Serial No. 99,665
6 Claims. (Cl. 40—130)

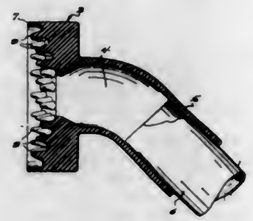


1. As a new article of manufacture, a dial constructed of a polymerized derivative of methacrylic acid having a convex obverse face and having a reverse side of different shape than its obverse face, indicia on said reverse side and visible through said convex obverse face, and illuminating means for the dial placed beyond the outer limits of the dial.

2,159,096
VACUUM COMB
Clarence E. Mitchell, Victoria, British Columbia, Canada
Application August 27, 1938, Serial No. 227,157
3 Claims. (Cl. 132—11)

1. A vacuum comb for use as an attachment for the flexible hose of a home-type vacuum cleaner composed of a molded rubber head formed with a centrally apertured concave face and providing a tubular shank-piece communicating with the center aperture and extending rearwardly from the head for the attachment of the head

to the hose, the head having a flexible peripheral wall and being formed with radially spaced circular tiers of massaging fingers extending from

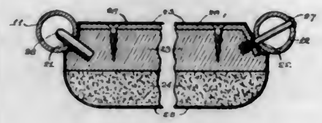


the concave face and terminating on arcuate lines defining, with the peripheral wall, the approximate curve of the scalp.

2,159,097
MANUFACTURE OF ARTIFICIAL MATERIALS
Robert Wighton Moncrieff and Frank Brentnall Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 5, 1937, Serial No. 140,894. In Great Britain May 22, 1936
5 Claims. (Cl. 8—129)

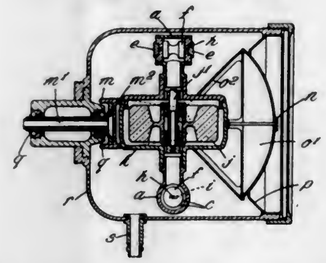
1. Process for improving the extensibility of artificial materials, which comprises subjecting ordinary dry spun filaments, yarns and similar materials of organic derivatives of cellulose, or filaments, yarns and similar materials or organic derivatives of cellulose which have been stretched to not more than 200% of their original length, to the action of an aqueous medium at a temperature above 100° C. in the absence of tension sufficient to stretch them.

2,159,098
SEAT STRUCTURE
Erving B. Morgan, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application June 22, 1936, Serial No. 86,454
4 Claims. (Cl. 155—184)



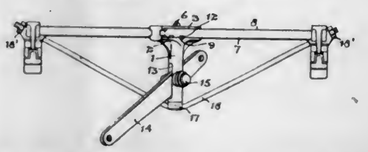
1. In a seat structure of the class described, an inverted U-shaped tubular seat back support, one leg of said support having a forwardly and inwardly facing tongue receiving aperture therein and the other leg thereof having a forwardly and inwardly extending screw receiving opening therethrough, a seat back having a fixed rearwardly and outwardly projecting tongue fitted within said aperture, and a securing screw extending through said opening and into the seat back in fastened engagement therewith, said seat back being in overlapping engagement with said seat back support.

2,159,099
GYROSCOPIC NAVIGATION INSTRUMENT
Douglas George King Moss, Sanderstead, England, assignor to Mechanism Limited, Croydon, England, a limited corporation of Great Britain
Application March 8, 1938, Serial No. 194,546
In Great Britain March 15, 1937
4 Claims. (Cl. 74—5)



1. In a gyroscopic navigational instrument, a valve chamber provided with a pair of straight line slots, a rollable valve member, supporting means for said valve member, said supporting means being movably disposed in said slots and permitting said valve member to move back and forth in said slots, said chamber being provided with orifices adapted to be opened and closed by the valve member during its movements.

2,159,100
BRAKE BEAM STRUT
David Paterson, Lindsay, Ontario, Canada
Application July 12, 1937, Serial No. 153,096
7 Claims. (Cl. 188—232)

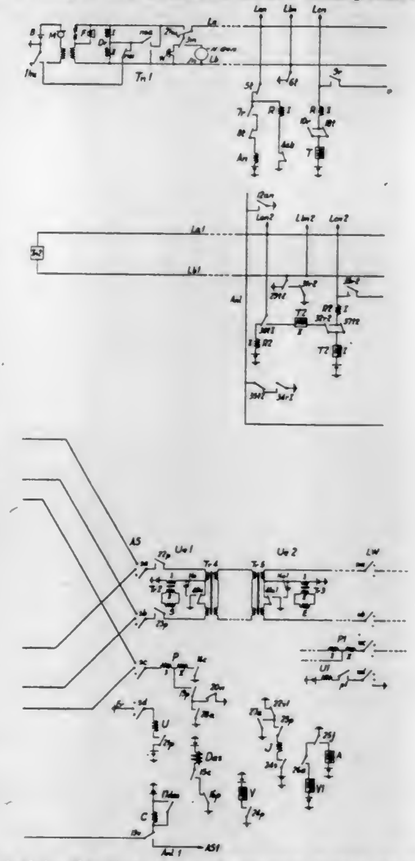


1. In a brake assembly having a beam and truss rod, a strut member interposed between said beam and truss rod having a head portion flanged to embrace the beam in selecting "left" or "right" hand positions, said head and beam having notches adapted to register when the strut is positioned in either a "left" or "right" hand position for the reception of a locking member.

2,159,101
TELEPHONE SYSTEM
Walter Pinell, Falkensee, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany
Application April 4, 1936, Serial No. 72,680
In Germany May 7, 1935
10 Claims. (Cl. 179—18)

1. In a telephone system, common-battery subscriber lines, local-battery subscriber lines, a link for interconnecting said lines for conversation, switching means for automatically connecting said link with any one of said lines where a call is initiated thereover, a common-battery current-supply connection and an alternative local-battery signalling connection in said link, and discriminating means in said link effective responsive to said connection of the calling line to said

link and controlled through said switching means according to the character of the calling line con-



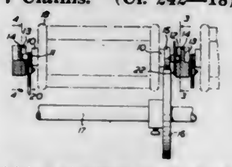
nected to the link for determining which of said connections is effective.

2,159,102

WINDING MACHINERY FOR YARNS, THREADS, RIBBONS, AND THE LIKE

William Pool, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware

Application February 12, 1936, Serial No. 63,569
In Great Britain March 1, 1935
7 Claims. (Cl. 242—18)



1. In a bobbin winding apparatus for yarn or like material, a bobbin-supporting spindle, a roller fixed on said spindle at the driving end thereof, a driving wheel disposed beneath and in contact with said spindle roller and adapted both to provide support for the driving end of the spindle and to drive said roller by frictional contact therewith, rolling means adapted to contact with the driving end of the spindle at a point on its periphery so as to maintain said spindle in predetermined position in opposition to the thrust exerted on the spindle roller by the driving wheel, and rolling means adapted to support the end of the spindle opposite to said driving end, each end of said spindle being free to take up the position predetermined by said driving wheel and rolling means.

5. In a bobbin winding apparatus for yarn or like material, a bobbin-supporting spindle, a roller fixed on said spindle at the driving end thereof, a driving wheel disposed beneath and in contact with said spindle roller and adapted both to provide support for the driving end of the spindle and to drive said roller by frictional contact therewith, rolling means adapted to contact with the driving end of the spindle at a point on its periphery so as to maintain said spindle in predetermined position in opposition to the thrust exerted on the spindle roller by the driving wheel, yieldably mounted rolling means for maintaining said driving end of the spindle always in contact with said first-mentioned rolling means during normal operation of the apparatus, further rolling means adapted to support the end of the spindle opposite to said driving end, and yieldably mounted rolling means for maintaining said opposite end of the spindle always in contact with said further rolling means during normal operation of the apparatus, each end of said spindle being free to take up the position predetermined by said driving wheel and rolling means.

2,159,103

MATCH PACKET

Rodney S. Pullen, Akron, Ohio

Application August 7, 1936, Serial No. 94,784
8 Claims. (Cl. 206—29)



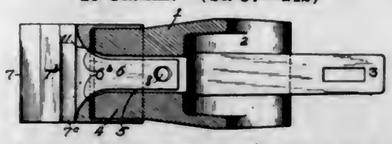
1. A pull-and-light type of match packet containing individualy separated paper matches and in which the stick ends of the paper matches are turned backwardly upon themselves and cut off adjacent the stick ends to give a holding for pulling purposes.

2,159,104

EXCAVATING IMPLEMENT TOOTH

Thomas A. Ratkowski, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, a corporation of Delaware

Application March 1, 1937, Serial No. 128,452
19 Claims. (Cl. 37—142)



1. A tooth for an excavating implement, comprising a body member having a forwardly presented nose constructed with a forwardly opening longitudinal bore, a combination tip structure comprising a cap portion and a blade portion, said cap portion embracing the end and sides of and protecting the nose against wear and preventing relative lateral displacement between the

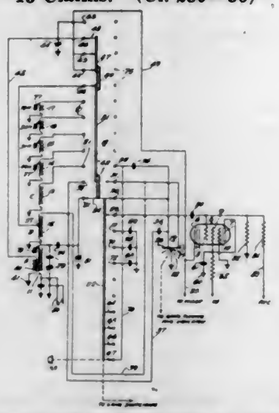
cap and the nose, said cap having forwardly presented bearing surfaces, and said blade portion having bearing surfaces cooperating with said first-named bearing surfaces and provided with a shank extending through said cap and into the socket of the nose, and means for keying said tip structure in position.

2,159,105

OSCILLATOR FOR MULTIPLE WAVE BAND RECEIVERS

John D. Reid, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1937, Serial No. 139,846
13 Claims. (Cl. 250—36)



1. A multiple frequency range oscillator for multiple wave band signal receiving systems and the like, comprising in combination, an oscillator tube having control grid, cathode and anode electrodes, tuning means for the oscillator including a variable tuning capacitor and a plurality of tuning inductances adapted to be tuned thereby through a plurality of differing frequency ranges, each of said tuning inductances being connected at one end to the anode electrode, means for connecting said tuning capacitor and the oscillator grid jointly with the opposite end of each of said inductances selectively, means providing connections for maintaining one of said inductances in circuit with said tuning capacitor and grid for a plurality of said selective connections, and means providing a fixed cathode tap connection on said last named inductance only.

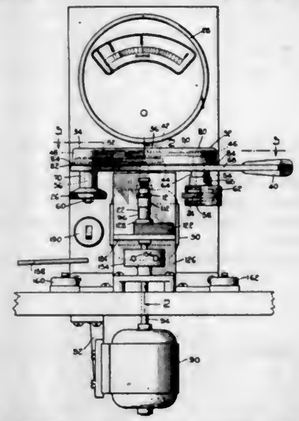
2,159,106

APPARATUS FOR ADJUSTING RESISTORS

Henry G. Richter, Westfield, N. J.

Application February 27, 1935, Serial No. 8,433
9 Claims. (Cl. 51—105)

8. Apparatus for adjusting the resistance value of a circular resistor, said apparatus comprising a rotatable support for receiving and holding the resistor, a frame mounted for movement in a direction transverse of the axis of rotation of the support, a wire brush rotatably mounted on said frame at one side of the support, a polishing or buffing wheel rotatably mounted on said frame at the opposite side of the support, motor means for driving said support, said brush, and said wheel, the driving connections to said brush and wheel being such that the brush and wheel are simultaneously driven during movement of the frame, said frame being so disposed with relation to said resistor support that movement of the frame in one direction brings the rotating brush into contact with the rotating resistor, while movement of the frame in the opposite direction



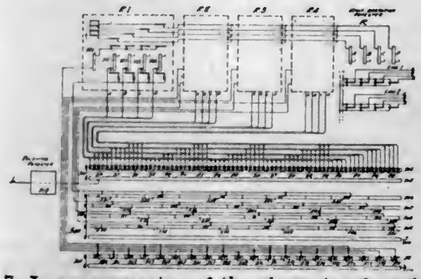
brings the rotating wheel in contact with the rotating resistor.

2,159,107

STOCK-QUOTATION SYSTEM

Harold C. Robinson, Chicago, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application October 17, 1932, Serial No. 638,054
7 Claims. (Cl. 177—353)



7. In an apparatus of the character described, the combination of a one-wire four-unit-code receiving distributor, storage relays adapted to be energized over said distributor, holding circuits for said storage relays, a four-wire four-unit code-retransmitting distributor operable to transmit pulses over contacts of said storage relays, means under control of said receiving distributor for setting said retransmitting distributor in operation, means also controlled by said receiving distributor for releasing said storage relays, and a channeling mechanism controlled by said distributors for retransmitting the four-unit code received as a channel-one or channel-two transmission.

2,159,108

CELLULOSIC MATERIAL AND PROCESS FOR PREPARING SAME

Ambrose W. Staudt, Kenmore, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 23, 1936, Serial No. 70,401
11 Claims. (Cl. 216—62)

5. The method of affixing to a cellulose derivative surface of a body a water-energizable ad-

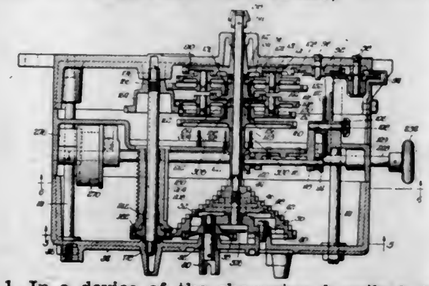
hesive surface of a second body which comprises applying between said cellulose derivative surface and said adhesive surface of said two bodies a liquid composition containing in solution, as the sole adhesion-inducing ingredients, a cellulose derivative and a softener for said adhesive.

2,159,109

LIQUID DISPENSING APPARATUS

Harvey L. Spaunburg, Bristol, and Edward Wild, and Otto Wild, Jr., Hartford, Conn., assignors, by mesne assignments, to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland

Application August 11, 1937, Serial No. 158,596
24 Claims. (Cl. 74—283)



1. In a device of the character described, the combination of a drive shaft adapted to be connected to indicating mechanism, gear steps mounted to rotate with said drive shaft and around a vertical axis, a plurality of supplemental shafts disposed adjacent said gear steps and being substantially parallel with said drive shaft, a driven shaft adapted to be connected to other indicating mechanism, differentially arranged gear means operatively connecting said supplemental shafts to said driven shaft, a gear slidably and non-rotatably mounted on each of said supplemental shafts, a movable housing member mounted to move with each of said last named gears, a shifting gear carried by each of said housing members operatively connected to the slidable gear and adapted to engage a selected gear step, and means for selectively engaging said shifting gear with said gear steps, said means including a plurality of movable members parallelly disposed and so arranged that the setting can be effected from one side of said device, the axes of said last named movable members being substantially at right angles to the axes of said supplementary shafts, and an operative connection between said movable members and the respective housing members.

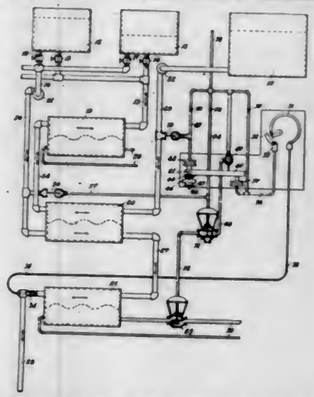
2,159,110

AUTOMATIC CONTROL FOR THERMAL SYSTEMS HAVING HEAT EXCHANGERS

Jay N. Swarr, Detroit, Mich., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application December 4, 1936, Serial No. 114,184
9 Claims. (Cl. 236—18)

1. The combination with a system for automatically regulating the temperature of a flowing liquid to be submitted to a thermal treatment and including a pair of heat exchangers having thermally associated liquid compartments, one of said exchangers being adapted for imparting heat to the liquid from a relatively hot fluid prior to said treatment and the other for removing heat therefrom and to a relatively cool fluid subsequent to said treatment, a source of liquid supply and means to circulate the said liquid therefrom through the heat exchangers for final discharge from the heat-removing exchanger, and means to control the intensity of the cooling effect of said latter exchanger; of



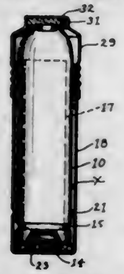
means subject to such a condition of the liquid flow beyond the first-named exchanger as would affect the flow of liquid in different compartments thereof for modifying the action of the means controlling the intensity of the cooling effect.

2,159,111

NASAL INHALER

John H. Tobler, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application August 27, 1937, Serial No. 161,256
7 Claims. (Cl. 128—200)



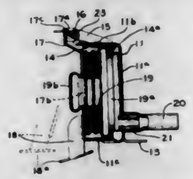
2. In an inhaler device, an outer shell having a closed base end and an open opposite end with threads formed adjacent thereto, a sealing disc disposed within the base end of said outer shell, an inner shell having an open base end and an opposite rounded nozzle end with an apical discharge orifice, said inner shell designed to be slidably interfitted within said outer shell with its open end adjacent said disc and allowing for an annular air chamber between said shells, means for holding said shells in coaxial alignment and axially movable relative to each other between predetermined limits, means having an air passage into the interior of and serving to close off the open end of said inner shell for retaining an inhalant material therewithin, an expansion coiled spring disposed between said latter means and said disc for urging said inner shell to extended position unseating the adjacent end of said inner shell from said disc and allowing air to circulate from said chamber into said inner shell, and a closure cap carrying a sealing disc in its crown end and adapted to have threaded engagement with said outer shell thread, said cap when threaded completely to said outer shell capacitated to simultaneously seal off the discharge orifice and retain the shells in retracted position seating the open end of said inner shell against the sealing disc in the base of said outer shell.

2,159,112

INDICATOR FOR SUCTION CLEANERS

Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application September 28, 1936, Serial No. 102,897
8 Claims. (Cl. 116—65)



5. In a bag pressure indicator for suction cleaners, the combination of a supporting frame including a cup-shaped member, an axially expansible bellows member substantially enclosed within said cup-shaped member and forming therewith a pressure chamber communicating with the space subject to varying pressure conditions, a spring-actuated plate hinged to said frame along one edge and extending over said cup-shaped member and having detachable connection with the free end of said bellows member, and a signal arm forming an extension of said plate remote from its hinged mounting.

2,159,113

PROCESS OF TREATING TEXTILE MATERIALS

William Whitehead, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application March 3, 1936, Serial No. 66,871
1 Claim. (Cl. 91—68)

In a process for the production of textile materials of improved properties, the step which comprises treating a fabric consisting of yarns of cellulose acetate with an emulsion containing cyclohexanol stearate and water under such conditions that from 2 to 3%, based on the weight of the fabric, of the cyclohexanol stearate is incorporated in the fabric.

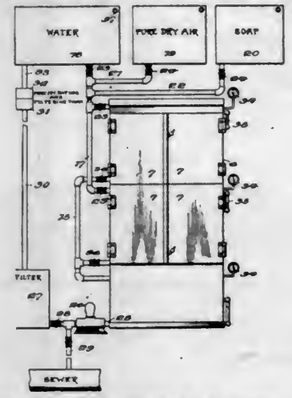
2,159,114

APPARATUS AND METHOD FOR WASHING AND DRYING CLOTHES

George Nugen Wright, Logansport, Ind., assignor, by mesne assignments, to W. Clenton Holt, Los Angeles, Calif.

Application October 2, 1934, Serial No. 746,556
4 Claims. (Cl. 68—20)

1. An apparatus for washing clothes including a cabinet consisting of a vacuum chamber and superposed washing units, a clothes tray suspended in each unit intermediate the ends of the latter, a liquid spray pipe in each unit for supplying water to the top of the clothes, and a valved conduit connecting each unit with the vacuum chamber, the valves of the conduit being operable to



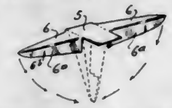
release air from the units at a point below said trays.

2,159,115

ANCHORING MEANS FOR CANDLE HOLDERS

Hugo Vogel, Jr., Sandusky, Ohio

Application April 11, 1938, Serial No. 201,207
5 Claims. (Cl. 67—25.5)



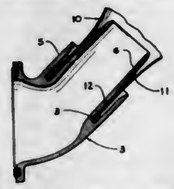
1. An anchoring prong for candle holders or the like comprising a single piece of non-metallic stiff sheet material having a body portion, and a plurality of portions projecting from different side edges of the body portion and cooperating to form a prong angular in cross-section and projecting from one side of the body portion.

2,159,116

SUCTION CLEANER COUPLING

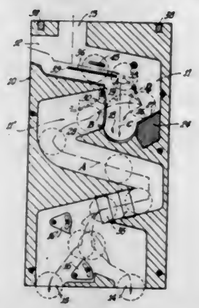
Robert M. Zacharias, Washington, D. C., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application March 25, 1937, Serial No. 133,009
4 Claims. (Cl. 285—71)



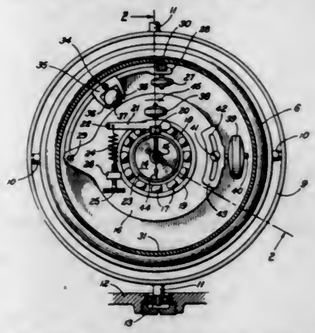
1. Means for attaching a dirt bag to the exhaust outlet of a suction cleaner having a tubular extension with an annular socket at its base, comprising a collar of a relatively stiff sheet material pre-formed into substantially elliptical cross sectional contour and inserted into the mouth of said bag, said collar being adapted to be distorted transversely preparatory to fitting the same onto the tubular extension of said outlet, the latter having a notch adjacent its outer end forming an inwardly facing shoulder adapted to engage the outer edge of said collar when its forward edge seats in said annular socket.

2,159,117
COIN AND SLUG SEPARATING DEVICE
Walter A. Tratsch and William Patzer, Chicago, Ill.
Original application June 18, 1936, Serial No. 85,879. Divided and this application June 10, 1938, Serial No. 212,891
3 Claims. (Cl. 194—100)



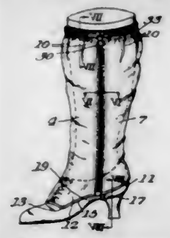
1. In a device of the class described including a descending coin passage down which coin elements move edgewise, selective deflecting means in the form of a rebound anvil arranged in said passage and having an elongated rebound edge disposed in the path of said coin elements and with its length extending in the direction of the normal plane of movement of said elements, said rebound edge being of a width narrower than the rim portion of coin elements deposited in said device, and constituting a ridge-like formation against which said coin elements may strike edgewise and from which said coin elements will rebound in various predetermined manners depending upon the physical characteristics thereof, said device including means arranged relative to said deflecting means for separating certain coins from others depending upon the manner in which the coins rebound from said anvil.

2,159,118
GYROSCOPE
Robert Alkan, Paris, France
Application May 1, 1935, Serial No. 19,241
In France May 9, 1934
15 Claims. (Cl. 74—5)



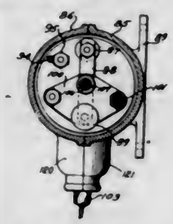
1. In a gyro-vertical, the combination of a gyroscope comprising gimbals and a gyro rotor mounted in said gimbals for spinning about a normally vertical axis and for angular movement about two mutually perpendicular horizontal axes at right angles to said spin axis, a mass, means mounting said mass on said gyroscope for rotation about the spin axis of said gyro rotor, and variable driving means actuated from said gyro rotor for rotating said mass about the spin axis of said rotor, said driving means causing said mass to rotate at variable speed when the gyroscope inclines from the vertical position so that erecting forces are produced which return the gyroscope to the vertical position.

2,159,119
WEARING APPAREL
Inga Carlen Allen, Wilkinsburg, Pa.
Application February 3, 1938, Serial No. 188,477
1 Claim. (Cl. 36—2)



A legging of thin transparent waterproof sheet material shaped to generally conform to the leg of the wearer and adapted when worn to conform loosely to the leg of the wearer, an elastic member gathering the legging at the top to support the upper margin on the leg of the wearer, apertures in said legging below the top, and a lower portion adapted to overlie the vamp and counter of the shoe of the wearer, said lower portion providing a loose fit to allow circulation of air through the legging whereby condensation within the legging is substantially prevented.

2,159,120
ELECTRICAL APPARATUS
Joseph W. Allen, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Original application October 13, 1930, Serial No. 488,495. Divided and this application April 3, 1937, Serial No. 134,905
6 Claims. (Cl. 175—361)



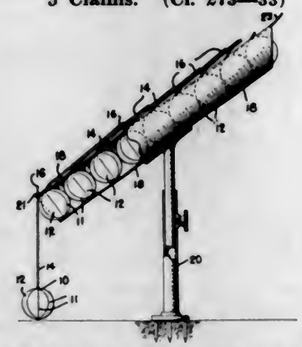
1. In a device of the class described, in combination with a sectional housing having two registering semi-cylindrical sections, a coil consisting of primary and secondary windings disposed within said housing, and means to electrically connect said secondary winding with a current consuming device, said last named means including a current conducting wire, an insulating covering for said wire, and an outwardly extending boss integral with and projecting radially from said housing to enclose and protect said conductor and its insulating covering.

2,159,121
FILTER TIP FOR CIGARETTES
Stephen Alley, London, England, assignor of one-half to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 14, 1937, Serial No. 142,525
In Great Britain June 20, 1936
10 Claims. (Cl. 131—52)



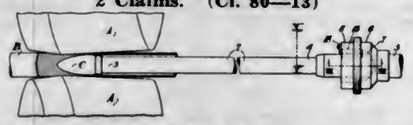
1. A cigarette filter tip consisting of a single coiled strip of material comprising a paper strip to which a layer of absorbent fibrous filtering material such as cotton wool is secured, the paper and wool being wound upon each other in convolutions in which the paper and wool are substantially co-extensive from the center of the tip to its periphery, said single coiled strip having an integral extension beyond the filtering medium to form a securing tag providing an outer layer of paper on the finished tip.

2,159,122
GOLF BALL HOLDER
John Armstrong, Bayonne, N. J.
Application October 1, 1938, Serial No. 232,758
5 Claims. (Cl. 273—33)



1. A golf ball holder comprising a ball saddle, a hangar secured to said saddle, means for suspending said hangar so as to locate a ball mounted in said saddle in position for driving, and means for removing said hangar from said support upon driving said ball.

2,159,123
ROLLING MILL MANDREL
Raymond J. Anater, Dravosburg, Pa., assignor to National Tube Company, a corporation of New Jersey
Application November 9, 1936, Serial No. 109,973
2 Claims. (Cl. 80—13)

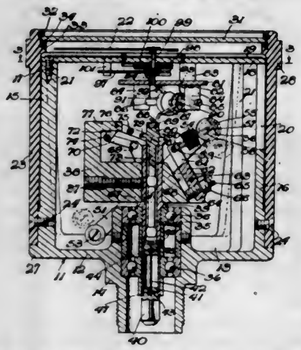


1. In combination with a seamless pipe or tube mill comprising at least two power-actuated metal-working rolls and an intermediately disposed mandrel, a rotatable compression mandrel bar for supporting said mandrel intermediate said metal-working rolls, a rotatable thrust spindle, and means for flexibly connecting said mandrel bar and said rotatable thrust spindle; said means being adapted for rotation with said rotatable mandrel bar and said rotatable thrust spindle and comprising a ball on one of the connected members, a socket on the other of said connected members, means for permitting the entry and withdrawal of said ball with respect to said socket, and means for connecting said ball and said socket for conjoint rotation.

2,159,124
ALLOY
Jesse O. Betterton, Metuchen, Albert J. Phillips, Plainfield, and Albert A. Smith, Jr., Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 20, 1937, Serial No. 143,756
2 Claims. (Cl. 75—167)

1. An alloy consisting of 0.01% to 0.1% calcium, 0.35% to 1.75% tin, and the balance lead.

2,159,125
TACHOMETER
James E. Bevins, Bronx, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 30, 1936, Serial No. 108,499
11 Claims. (Cl. 264—20)

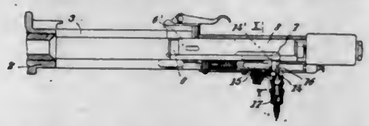


1. In a tachometer of the centrifugally actuated type, a rotatable driving member, a weighted element carried by a frame pivotally mounted on said driving member and movable relatively thereto about its pivot under the influence of centrifugal force, the axis of said frame normally making an acute angle with the axis of rotation of said driving member and a longitudinally coiled governor spring anchored at one end relatively to said driving member and connected at the other end to said weighted element, said spring being so arranged relatively to said weighted member that its anchorage point is within said acute angle and so that the effective component of its resisting force opposed to the centrifugal force exerted on said weighted element varies as a function of the square of the rotational speed of said driving member with equal variations in the angular position of said weighted element, whereby the latter moves through uniform angular distances with uniform variations in the rotational speed of said driving member.

2,159,126
AUTOMATIC FIREARM
Marc Birkigt, Bois-Colombes, France
Application April 16, 1938, Serial No. 202,545
In Belgium February 11, 1938
4 Claims. (Cl. 42—3)

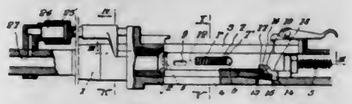
1. An automatic firearm which comprises, in

combination, a tube, a breech structure movable with a longitudinal reciprocating motion in line with said tube at the rear thereof, a stationary guide for said breech structure rigid with said tube, a pawl pivoted to said breech sturcture adapted to cooperate with said guide



for locking said breech structure in the front position thereof with respect to said tube, and locking means carried by said stationary guide adapted to cooperate with said locking pawl for holding said breech structure temporarily in rear position in said guide.

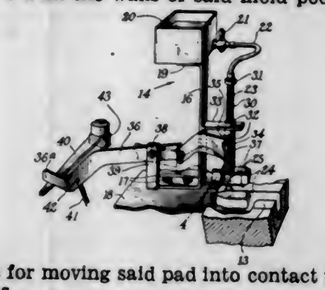
2,159,127
AUTOMATIC FIREARM
Marc Birkigt, Bois-Colombes, France
Application April 16, 1938, Serial No. 202,547
In Belgium February 17, 1938
5 Claims. (Cl. 42—3)



1. An automatic firearm which comprises, in combination, a tube, a breech structure movable with a reciprocating motion in line with said tube at the rear thereof, a stationary casing rigid with said tube for guiding said breech structure, said breech structure including a breech block proper and a firing pin carrier movable longitudinally to a limited extent with respect to said breech block, a pawl movably carried by said breech block, said firing pin carrier being provided with a notch adapted to cooperate with said pawl for interlocking said breech block and said firing pin carrier, the contacting surfaces of said pawl and said firing pin carrier being so inclined with respect to each other and with respect to the direction of thrust as to produce a transverse component which tends to move said pawl transversely away from said notch, a guiding surface in said casing adapted to keep said pawl in said notch as long as said breech block has not reached the end of its frontward stroke, said guiding surface being provided with a notch adapted to receive said pawl pushed therein by the action of said component, and cooperating projections carried by said casing and said pawl respectively for driving said pawl away from the first mentioned notch and into the second mentioned notch when said breech block reaches the end of its frontward stroke.

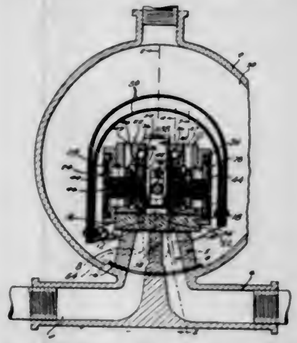
2,159,128
MOISTENER FOR CIGAR SHAPERS
William J. Brophy, Linden, N. J., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application March 18, 1937, Serial No. 131,597
16 Claims. (Cl. 131—9)

3. The combination with a bunch shaper having a plurality of spaced mold pockets, of a moistening device for applying moisture to said pockets, said device comprising a pad shaped to conform with the shape of said pockets and constructed and arranged to apply moisture by direct contact with the walls of said mold pockets, and



means for moving said pad into contact with said pockets.

2,159,129
VALVE AND MIXING DEVICE
Walter H. Brush, Sea Cliff, N. Y., assignor to Thermo-Mix, Inc., a corporation of New York
Application November 22, 1934, Serial No. 754,238
10 Claims. (Cl. 236—12)

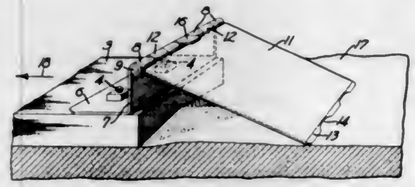


2. A valve having a chamber provided with oppositely located main and auxiliary outlet ports, a valve for controlling each port, and means for connecting said valves together for simultaneous operation in the same direction, said valves being arranged so as to entirely close said main port but not said auxiliary port.

5. A mixing device comprising a mixing chamber an inlet for each of the fluids to be mixed, means for controlling the passage through each of said inlets comprising oppositely arranged pairs of valves, one of which pairs is associated with each inlet, one valve only of each pair being movable to close the inlet with which it is associated and the other located so as to be acted upon by the fluid passing from said inlet when the first valve is moved from its valve seat whereby variations in the force exerted by said fluid upon one of said valves is balanced by the force exerted upon the other.

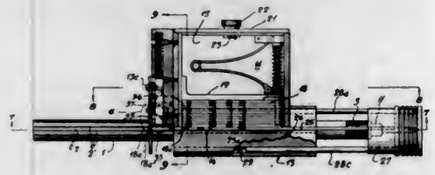
2,159,130
SKI BRAKE
Ezra William Burgett, Oakland, Calif.
Application February 9, 1938, Serial No. 189,492
2 Claims. (Cl. 280—11.13)

1. A ski brake comprising a bracket secured to and having a vertical flange rising from a ski adjacent the rear end thereof, a pivot pin, a plurality of tabs extending from an edge of said flange and encircling said pivot pin and a tab extending from said edge of the flange and rising from the flange in a direction normal to the



surface thereof, and a flap member having at one edge thereof flaps encircling said pivot pin and in another edge thereof a plurality of notches.

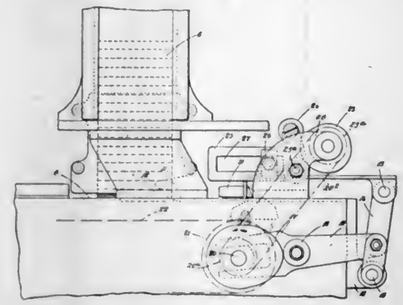
2,159,131
HAIR CURLING
Robert P. Burns, Los Angeles, Calif.
Application August 19, 1938, Serial No. 225,746
16 Claims. (Cl. 132—33)



1. A hair-curling device which comprises: a mandrel member provided with a hair-receiving portion at one end; housing means rotatably supporting said mandrel member at a position removed from said one end; a magazine member mounted on said housing means and provided with a recess adapted to receive a plurality of hairpins in stacked alinement, said recess terminating in an elongated slot directed along the length of and adjacent to the periphery of said mandrel member at a position within said housing means and opening through said housing means at the side thereof toward said one end of said mandrel; operating bolt means mounted on said housing means and slidably movable longitudinally within said slot between a position wholly within said slot and a position removed from said slot at the other end of said mandrel.

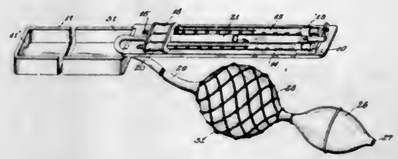
2,159,132
APPARATUS FOR FEEDING CIGARETTES AND OTHER ARTICLES OF SIMILAR SHAPE
John Walker Chalmers, Deptford, London, England, assignor to Molins Machine Company, Limited, Deptford, London, England
Application January 26, 1937, Serial No. 122,475.
In Great Britain February 6, 1936
5 Claims. (Cl. 214—8.5)

1. In apparatus for feeding cigarettes, guides between which cigarettes pass substantially vertically downwards, a support to which the cigarettes are delivered, a pusher element movable over the support to remove a batch of cigarettes from between said guides, a pivoted cigarette engaging member to engage the cigarettes above the pusher element when the latter has partly removed a batch of cigarettes from between the guides and to lower the cigarettes between the guides to said support after removal of the batch from between the guides, means to move the pivot of the cigarette engaging member in the direction of movement of the pusher element and in a direction reverse thereto and means operative in timed relationship with said last named means to move the cigarette engaging element about



its pivot in a vertical plane, said pivot being so disposed between the support and the position at which the cigarettes between the guides are first engaged by said member and at such a distance from said position that that part of the member which engages the cigarettes is moved downwardly in a path approximately perpendicular to the support.

2,159,133
HAND ASPIRATING PSYCHROMETER
Ralph R. Chappell, Richmond, Va., and Kenneth E. Whitney, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 26, 1936, Serial No. 87,568
12 Claims. (Cl. 73—338)

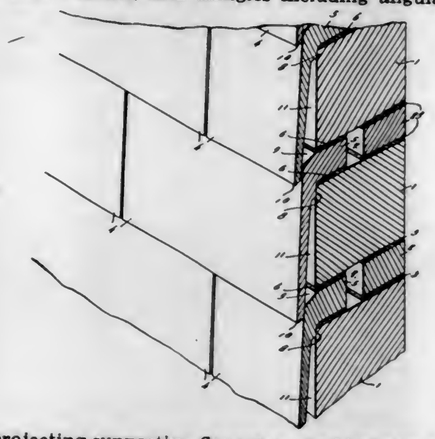


8. In an instrument of the class described, a two part casing, means for pivotally securing the two parts of said casing together, a pair of thermometers rigidly mounted adjacent each other on one of said parts, a housing enclosing the bulbs of said thermometers, said housing having an opening adjacent each of said bulbs, a Venturi tube communicating with said housing, a conduit extending into said tube and terminating adjacent the throat thereof, a restricted passage in said conduit, and means for supplying air under pressure to the latter.

2,159,134
WALL
Robert Reynolds Clark, Miami, Fla.
Application April 14, 1938, Serial No. 202,063
5 Claims. (Cl. 72—21)

1. A wall structure comprising vertically spaced courses of blocks, comparatively small blocks between the inner portions of the first named blocks,

and a veneer of shingles mounted on the first named blocks, said shingles including angularly



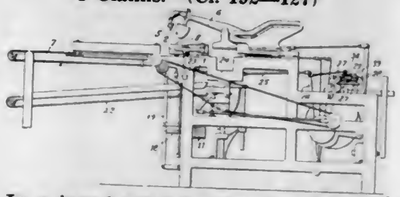
projecting supporting flanges secured between the first named blocks.

2,159,135

STOP MOTION DEVICE FOR BREAD WRAPPING MACHINES

Ashby Benton Coward, Indianapolis, Ind., assignor of forty-nine per cent to Adam Neu, Evansville, Ind.

Application July 6, 1935, Serial No. 30,178
Renewed January 24, 1939
3 Claims. (Cl. 192—127)



1. In a bread wrapping machine adapted for discharging wrapped bread therefrom, a pair of feeler fingers located on opposite sides of the path of discharge movement of the said bread and independently movable by the passage of improperly wrapped bread past the same, a control lever operative to stop the machine, electromagnetic means for operating said lever, and normally ineffective means to energize said electromagnetic means and rendered effective by independent movement of either feeler finger of said pair.

2,159,136

JOINT FOR SHEET METAL ROOFING

Edward M. Delk, Shelbyville, Tenn., assignor of eight-tenths to Koy E. Adams and one-tenth to James E. Parsons, both of Shelbyville, Tenn.

Application October 29, 1937, Serial No. 171,762
1 Claim. (Cl. 108—18)



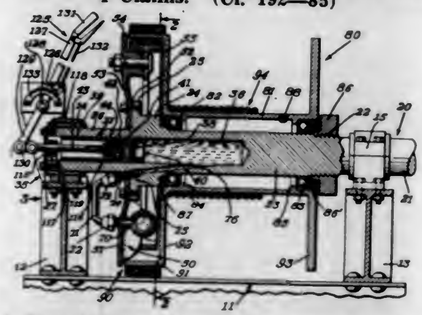
A joint for sections of sheet metal roofing comprising sections having spaced U-shaped ridges bent therefrom having enlarged crests, the wall of the ridges below the crests being disposed in spaced parallel relation, one ridge being formed at one side edge of each section with its outer wall free to resiliently engage over the crest of the opposite end ridge of the next adjacent section, the free wall of the engaging ridge having its lower edge reversely bent to form a multiple thickness of material on the inner side of the free wall adapted to engage beneath the crest of the engaged ridge.

2,159,137

HYDRAULIC CLUTCH

John Trimble Doty, Bellflower, Calif., assignor of one-half to Frederick W. Weber, Southgate, Calif.

Application February 18, 1937, Serial No. 126,419
4 Claims. (Cl. 192—85)



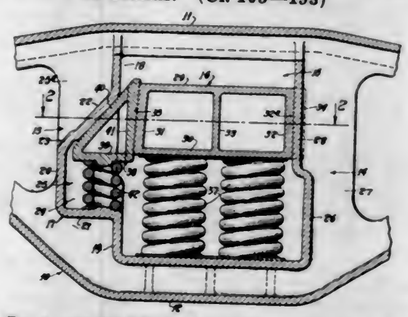
4. In a device as described, a rotatably mounted shaft having a main cylinder extending in the shaft from one end and concentric with the axis of the shaft, a piston in the cylinder and rotated with the cylinder by frictional contact, a rectilineally movable piston rod, an anti-friction thrust bearing between the inner end of the rod and the piston, an operating means for reciprocating said rod having a connection to the rod to restrain the rod from rotation and a fluid duct extending through a portion of the shaft from the said cylinder.

2,159,138

CAR TRUCK

Otho C. Duryea, Waterbury, Conn.

Application July 30, 1936, Serial No. 93,436
35 Claims. (Cl. 105—193)



8. In a car truck, the combination of spaced side frames having aligned bolster openings therein, a bolster transversely arranged with its ends positioned in said openings for substantially vertical movement, cushioning means for supporting the bolster, means for restraining the movement of said bolster in an upward direction, said means

comprising devices located between one of the side frames and one side of the bolster at one end thereof and between the other of said side frames and the other side of the bolster at the other end thereof, and stationary means on the side frames and engageable by parts of the bolster at the opposite sides of each end thereof providing a vertical guided movement therefor.

2,159,139

ELECTRIC PLUG

George Eaton, Cleveland, Ohio

Application July 16, 1936, Serial No. 90,942
4 Claims. (Cl. 173—332)



3. In an electric appliance plug of the type having outwardly projecting means adapted to be depressed for opening the socket of the plug, an attachment comprising a plate adapted to be attached to the body of the plug, said plate having a slot to permit extension of the depressible socket-opening means therethrough, said plate having a second slot to the rear of the first slot, said second slot having bearing portions at the sides thereof, and a lever arm having lateral extensions for pivotal engagement in said bearing portions while said lever arm extends rearwardly through said second slot so as to be accessible from a point in the region of the rear end of the plug body, when attached thereto, for effecting manipulation of the socket-opening means, and means for securing said attachment to the body of the electric plug.

2,159,140

PRODUCTION OF HYDROCARBONS FROM CARBON MONOXIDE AND HYDROGEN

Johannes Eckell and Gerhard Ritter, Berlin, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application March 5, 1936, Serial No. 67,344
In Germany March 7, 1935
4 Claims. (Cl. 260—449)

1. In the process for the production of normally solid hydrocarbons of the paraffin series by thermal converion of carbon monoxide and hydrogen in the gaseous phase in the presence of a solid catalyst and under a pressure ranging from atmospheric pressure to 50 atmospheres the step of continuously passing the said catalyst through the reaction space, then freeing it at least partly from solid paraffin hydrocarbons deposited thereon and thereupon supplying it again to the reaction space.

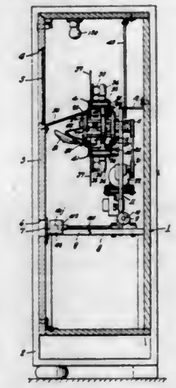
2,159,141

ELECTRIC RIFLE RANGE

William P. Falkenberg, Chicago, Ill., assignor to Rayolite Rifle Range Company, Chicago, Ill., a corporation of Oklahoma

Application January 11, 1937, Serial No. 120,046
1 Claim. (Cl. 273—101.1)

A shooting gallery comprising a traveling target, a driving motor for said target, means for establishing a circuit for said motor, including a shot limit switch having electrical actuating means which must be successively operated to finally open said shot limit switch, a trigger for said gun, a circuit for said electrical actuating means controlled by said trigger, and means effective, after the last allowed shot, to move said



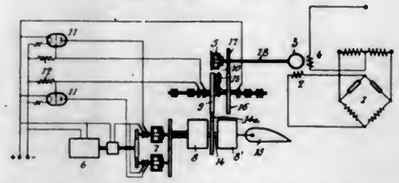
target into a predetermined position within the view of the user prior to the stoppage of the motor.

2,159,142

AUTOMATIC RUDDER CONTROL FOR AIRCRAFT

Franz Fischer, Berlin-Wilmersdorf, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschrankter Haftung, Berlin, Germany, a corporation of Germany

Application April 26, 1938, Serial No. 204,485
In Germany April 28, 1937
10 Claims. (Cl. 244—76)



1. In a control device for aircraft, movable means for controlling the position of said craft with respect to a chosen axis thereof, means producing an effect proportional to the amount of deviation of said craft from said axis, means producing an effect proportional to the rate of movement of said movable means, means for comparing these effects, and means controlled in response to said comparing means for controlling the operation of the first-named controlling means.

2,159,143

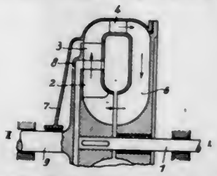
HYDRAULIC TRANSMISSION GEAR

Hermann Föttinger, Berlin-Wilmersdorf, Germany

Original application April 4, 1934, Serial No. 719,008, now Patent No. 2,116,461, dated May 3, 1938. Divided and this application December 27, 1937, Serial No. 181,866. In Germany April 6, 1933
1 Claim. (Cl. 60—54)

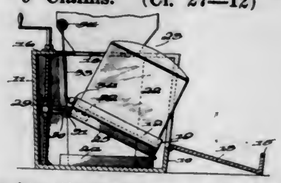
A hydraulic transmission gear for the intensified automatic torque increase at the start, comprising a primary pump wheel, a single secondary wheel having blades, the inlet radius of which does not exceed the outlet radius and the blades of the secondary wheel being substantially thickened at the inlet and eventually rounded off

and formed with flat angles β_2 with the circumference at the outlet whereby the relative discharge velocity (w_2) and the peripheral velocity (u_2) at that point are of substantially the same magnitude at the normal angular speed of maximum efficiency (n_{norm}), a chamber connecting the outlet of the secondary wheel with the inlet



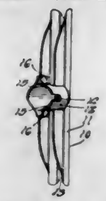
of the pump wheel, guide means operable in said chamber and being arranged at a radius as large as possible and a blade-less channel having a radial extension as large as possible and being on all sides formed by smooth walls and being disposed between the outlet edge of the guide means and the inlet edge of the primary pump wheel.

2,159,144
CASKET
Junious Fletcher, Portsmouth, Va.
Application February 17, 1937, Serial No. 126,297
9 Claims. (Cl. 27—12)



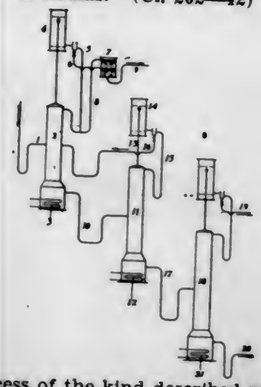
1. In combination, a casing adapted to house a body and having a side wall providing a view of the interior of the casing, a body holder in the casing, and a pivotal mounting in the casing for the body holder providing for tilting movement of the body holder towards said side wall about an axis extending longitudinally of the casing.

2,159,145
CROSS HEAD FOR MOPS
John Glover, Chicago, Ill., assignor, by mesne assignments, to Midway Chemical Co., Jersey City, N. J., a corporation of New Jersey
Application November 30, 1932, Serial No. 644,966
5 Claims. (Cl. 15—152)



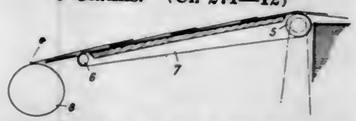
4. In a mop, having a stick, a cross-head of sheet material having opposed complemental sections forming a socket to secure said head upon said stick, one of said socket-forming sections having a plurality of piercing tangs therein, and the other of said sections having slots, the tangs on the first named section being inserted through said slots to lock the sections one to another and penetrating said stick to secure said socket thereon.

2,159,146
PROCESS FOR THE SEPARATION OF ACETIC ANHYDRIDE
Henri Martin Guinot, Melle, Deux-Sevres, France, assignor to les Usines de Melle, Melle, Deux-Sevres, France, a company of France
Application December 4, 1934, Serial No. 755,995
In France December 12, 1933
4 Claims. (Cl. 202—42)



1. A process of the kind described which comprises combining with a mixture of water, acetic acid and acetic anhydride, a lower alkyl acetate, having a boiling point below the boiling point of the acetic acid and anhydride but forming no azeotropic mixture with the acetic acid or anhydride, and heating to remove the azeotropic mixture of water and said acetate.

2,159,147
SHEET FEEDING APPARATUS
Heinrich Gümbel, Leipzig, Germany, assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y., a corporation of New York
Application May 11, 1936, Serial No. 79,148
In Germany May 11, 1935
9 Claims. (Cl. 271—12)

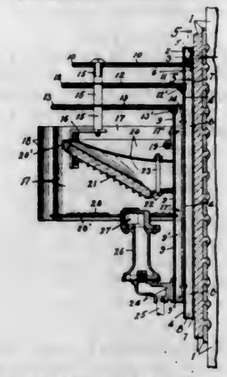


1. Sheet feeding apparatus comprising a continuously driven conveyor on which the sheets lie in lapped relation, means for feeding sheets from a supply thereof to the continuously driven conveyor, and means for accelerating and retarding the movement of said continuously driven conveyor.

2,159,148
PRODUCTION OF VALUABLE LIQUID HYDROCARBONS
Hans Haeuber and Josef Hirschbeck, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application June 30, 1938, Serial No. 216,754. In Germany July 6, 1937
4 Claims. (Cl. 196—10)

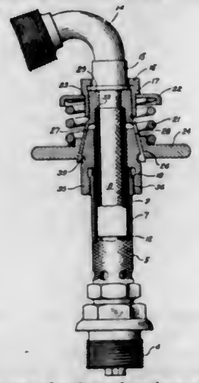
1. The process of producing a hydrocarbon oil which comprises subjecting to polymerization by means of a catalyst of the Friedel-Crafts' reaction a gas containing more than 30 per cent of gaseous olefines, the olefines containing a preponderating amount of olefines selected from the group consisting of the butylenes and amylenes, and subjecting the product resulting from the polymerization in either order to both a hydrogenating treatment and a treatment with superheated steam in the presence of a caustic alkali.

2,159,149
WALL GAS HEATER
Harold W. Hart, Los Angeles, Calif.
Application January 10, 1938, Serial No. 184,223
9 Claims. (Cl. 126—90)



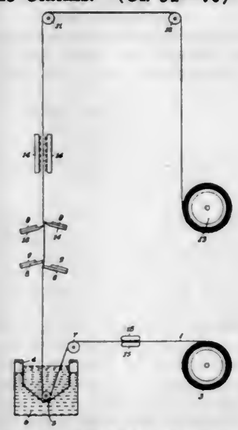
1. A wall gas heater of semi-circular form and including a back structure to rest against a wall and having a vertical air passageway therethrough, a top structure having a horizontal air passageway therein communicating with said vertical air passageway, a drum structure open at its top and bottom and positioned in front of said back structure and under said top structure, an angularly disposed heat radiating member mounted in said drum, and a gas burner under said member, whereby air circulates upwardly and outwardly through said back and top structures and heat is radiated downwardly and outwardly from said heat radiating member.

2,159,150
IGNITION MECHANISM
Ralph M. Heintz, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application January 5, 1938, Serial No. 183,521
19 Claims. (Cl. 123—169)



1. A cap for spark plugs having a barrel adapted to receive an ignition cable, said cap comprising, in combination with a tubular metal extension, an externally tapered coupling element secured to the upper end of the barrel, an internally tapered coupling element movable longitudinally of the barrel, and a third coupling element interposed between said first two coupling elements and yieldably held thereby, said third coupling element being secured to said tubular extension, and movable therewith to insert or withdraw the cable from the spark plug barrel.

2,159,151
METHOD OF MOISTUREPROOFING
Albert Hershberger, Kenmore, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 20, 1933, Serial No. 681,295
15 Claims. (Cl. 91—70)



1. A method of preparing a thin, glass-clear transparent, and glossy wax film which comprises coating a base with a molten composition comprising a wax, successively passing the coated base between a pair of oppositely disposed doctor knives heated to a temperature at least equal to the melting point of the wax in the composition and between another pair of oppositely disposed doctor knives heated to a temperature at least equal to the melting point of the wax in the composition and having edges which are rounder or sharper than the edges of the first-mentioned doctor knives, the coating being in the molten condition during its passage between said doctor knives, and subsequently causing the coating to set and solidify before contacting with any elements which might tend to destroy any of the desirable characteristics of the coating.

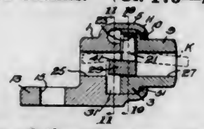
2,159,152
METHOD OF MAKING MOISTUREPROOF MATERIAL
Albert Hershberger, Kenmore, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 20, 1933, Serial No. 681,293
Renewed October 7, 1938
6 Claims. (Cl. 91—70)



1. A method of preparing a moistureproof material having a thin, glass-clear transparent, and glossy coating which comprises coating a base

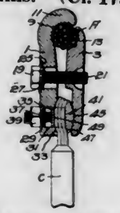
with a molten composition comprising as essential ingredients a moistureproofing waxy substance and a film-forming substance selected from the class which consists of crepe rubber, gutta percha, balata, caoutchouc, chemical derivatives of rubber, including "Thermoprene", hydrogenated "Thermoprene" and other derivatives of "Thermoprene", hydrogenated rubber, halogenated rubber, rubber-like substances including the polymers of isoprene, butadiene and their homologues, removing the excess composition from said base and treating the coating to render it smooth and glossy, while the coating is in the molten state, and subsequently causing the coating to set and solidify before contacting with any elements which might tend to destroy or impair any of the desirable characteristics of the coating.

2,159,153
CONNECTOR
Alfred J. Hixon, Braintree, Mass.
Application March 25, 1936, Serial No. 70,774
14 Claims. (Cl. 173—269)



1. A device of the character described having, in combination, a pair of relatively rotatable members, at least one of which is formed with an opening to receive a cable or the like, a cable gripper formed with a perforation for receiving the cable, said gripper having a cylindrical surface operatively mounted on a cylindrical surface an one of said members for rotation eccentrically of the axis of relative rotation of said members; and means operatively connecting said gripper to the other of said members for causing, when said members are relatively rotated, eccentric rotation of said gripper relative to said member on which it is operatively mounted, said means comprising intermeshing parts so formed as to allow for movement of said gripper transversely of said axis of relative rotation while preventing substantial rotation between said gripper and members when the latter are rotatably stationary relative to each other.

2,159,154
CABLE TAPPING DEVICE
Alfred J. Hixon, Braintree, Mass.
Application April 22, 1937, Serial No. 138,394
16 Claims. (Cl. 173—273)

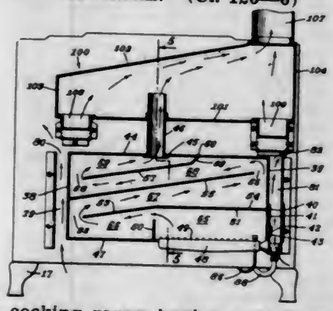


1. A conductor tapping device having, in combination, a first jaw member, a second jaw member, said first jaw member being formed to provide a transverse cable receiving recess having at one side thereof an upstanding part against which one side of the cable is adapted to rest, said second jaw member having a cable engaging portion adapted to engage the cable surface opposite said recess at one side of said upstanding part, means interconnecting said jaw members for drawing them together for clamping the cable between them, which means comprises a screw-threaded part movably connected to at least one of said jaw members for permitting said second jaw member to move longitudinally of said first jaw member, and means providing a fulcrum for said second jaw member forcing it to move longitudinally of said first jaw member when swung toward it for gripping the cable to move said cable engaging portion of said second jaw member toward said upstanding part.

2,159,155
PROCESS FOR THE MANUFACTURE OF SODIUM CITRATE DI-HYDRATE
Homer H. Holton, Corona, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
No Drawing. Application November 22, 1937, Serial No. 175,855
7 Claims. (Cl. 260—535)

1. A process of obtaining sodium citrate dihydrate comprising evaporating an aqueous sodium citrate solution under an absolute pressure of not less than 2.6 inches of mercury at a temperature not lower than 47° C.

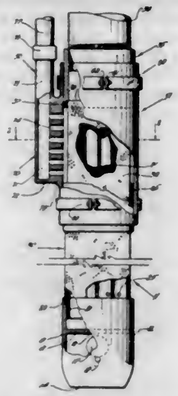
2,159,156
HEATER ATTACHMENT FOR RANGES
Henry Honer, Los Angeles, Calif., assignor to Western Stove Company, Culver City, Calif., a corporation of California
Application August 3, 1937, Serial No. 157,129
13 Claims. (Cl. 126—6)



1. A cooking range having a back wall combined with a heater assembly, said assembly having a back wall spaced from the back wall of the range by two vertical end walls, said end walls being attached to the back wall of the range, an inside heating unit having inner and outer walls parallel to the back wall of the range and two end walls and having a bottom and a top with a fume pipe connected to the top and having a heating unit in the bottom, there being a space between the inner wall of the inside heater and the back wall of the range, a second space between the outer wall of the inside heater and the back wall of the heater assembly and two end spaces adjacent the end walls of the inside heater, said spaces being adapted for the upflow of air heated by the inside heater.

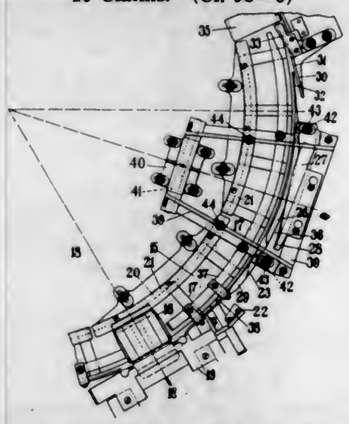
2,159,157
INDUCED FLOW WELL-POINT ATTACHMENT
Herbert G. Hopkins, Yuma, Ariz.
Application January 4, 1938, Serial No. 183,300
14 Claims. (Cl. 166—5)

1. In a device as described, the combination of a wellpoint having an intake screen and a pipe for conducting water flowing inwardly through the screen to the top of the well combined with an induced flow attachment including a jacket sur-



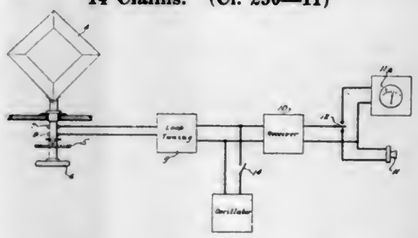
rounding part of the screen with means to flow water from the top of the well into the jacket and thence through the portion of the screen covered by the jacket.

2,159,158
PACKING OF CIGARETTES AND OTHER ARTICLES
George Daniel Horgan, London, England, assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application January 27, 1937, Serial No. 122,529
In Great Britain January 30, 1936
10 Claims. (Cl. 93—6)



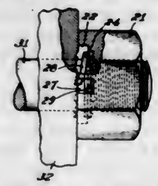
1. Mechanism for closing the end-wall-panel and tuck-in-flap of the slide of a slide-and-shell carton, said mechanism comprising a supporting structure, a table thereon adapted to receive a succession of spaced apart carton slides, and upon which table said slides are disposed with their end-wall-panels and adjoining tuck-in-flaps extended in open position beyond the table edge, a series of folding members mounted in spaced successive positions upon a part of said supporting structure adjacent to said table edge, and having a configuration adapted to fold the end-panels and tuck-in-flaps of the carton slides as said flaps and panels are caused to be engaged successively with the folding members exclusively by relative bodily traversing movement as between the table with its carton slides and the part of said supporting structure upon which said folding members are mounted, said folding members including an abutment rail adapted to be engaged with each end-panel and its tuck-in-flap, a folding element adapted to bend said flap over said rail, along the fold line adjoining said end-panel, preparatory to closing movement of the end-panel, a folding element adapted to bend said end panel bodily with its flap to close them over the end of the carton slide, and means to effect said relative traversing movement as between said table with its slides and said part of the supporting structure with said folding members.

2,159,159
METHOD OF AND MEANS FOR INDICATING DIRECTION
Lawrence C. F. Horle, Newark, N. J.
Continuation of application Serial No. 529,526, April 11, 1931. This application February 11, 1935, Serial No. 6,107
14 Claims. (Cl. 250—11)



9. In a directional radio receiving system for receiving modulated continuous waves, the combination of a visual indicator operatively associated with said receiving system for indicating the relative direction of the incoming waves and having a pointer adapted to fluctuate in accordance with the modulations of said waves, and means coupled with said receiving system for eliminating the modulation effects of said waves whereby fluctuations of the pointer are prevented.

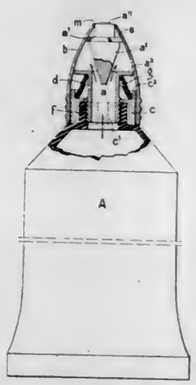
2,159,160
NUT LOCK
William F. Horsch and James M. Thompson, Monessen, Pa.
Application February 8, 1936, Serial No. 63,022
1 Claim. (Cl. 151—41)



In a nut lock, the combination of a bolt-receiving member provided with an opening therethrough, a bolt disposed in the opening, a nut threaded on the bolt and engaging said member, the inner face of the nut having an annular recess therein encircling the bolt, the inner wall of the recess being provided with a series of ratchet teeth encircled by a shoulder, the surface of said member opposite said teeth being

provided with a series of ratchet teeth encircling the bolt and spaced from the teeth in the recess, and a helical spring washer disposed in the recess with its ends abutting against said teeth in the recess and said member for locking the nut on the bolt, said nut being provided with an opening through the side wall of said recess and passing through said shoulder, and said washer being provided at its nut-engaging end with a lug projecting into said side wall opening, said lug being adapted to be lifted out of engagement with said nut teeth by a tool inserted through said nut opening and to be held out of engagement with said nut teeth by said shoulder whereby the nut can be unscrewed from the bolt.

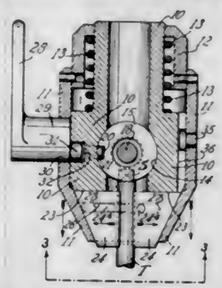
2,159,161
CLOSURE FOR COLLAPSIBLE TUBES
Ernst Isler, Basel, Switzerland, assignor to Steatit-Verkaufsgesellschaft A. G. (Steatite Trading Ltd.), Basel, Switzerland
Application August 5, 1938, Serial No. 223,342
In Switzerland August 21, 1937
2 Claims. (Cl. 221—60)



1. A tube closure comprising a closure head, means for securing said closure head in a fixed position on the neck of a collapsible tube, a valve seat formed in connection with the outer surface of said closure head, a cap placed over said closure head and adapted to cooperate with said valve seat in forming a valve, a retaining sleeve slidably mounted on said neck, means for rigidly connecting said cap with said slidable sleeve, an abutment surface in rigid connection with said closure head, and an elastic member in form of a rubber sleeve arranged between said abutment surface and said retaining sleeve so as to bias the latter downwardly.

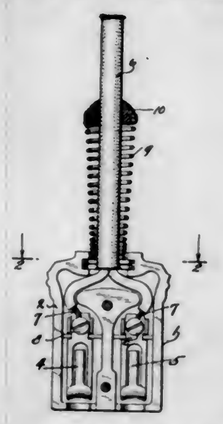
2,159,162
TAP HOLDER CHUCK
Carl W. Johnson, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application July 29, 1936, Serial No. 93,180
7 Claims. (Cl. 279—66)

1. A chuck device comprising a shell having a top and tapered end, a body member slidably mounted within and shell, a plurality of jaws located within said shell and adapted to cooperate with the walls of said end, springs normally urging said jaws to open position, a yielding element of a higher resilient value than said springs positioned between said top and member and forcing said jaws by contact with said end into closed position, said member having a portion thereof formed for receiving a device adapted to move said member relative to said shell to effect an opening of said jaws, by overcoming the bias of said yielding member and permitting the bias of said springs to become effective.



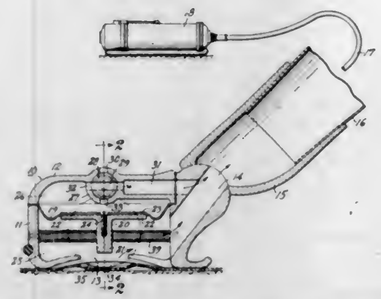
5. A chuck comprising an outer shell having a top portion and inwardly tapered end walls, a body member movably mounted in said shell, said member having formed therein a transverse bore, a pair of adjustable gripping devices located in said bore, said gripping devices being movable bodily with said member axially of said shell, a plurality of jaws located between said member and tapered end walls, and a yielding element positioned between said top portion and member for forcing said jaws by contact with said end into closed position.

2,159,163
ELECTRIC CONNECTOR OR TERMINAL
John J. Jolliffe, Hawthorne, N. J., assignor to The Okonite Company, Passaic, N. J., a corporation of New Jersey
Application April 25, 1936, Serial No. 76,328
1 Claim. (Cl. 173—322)



An electric connector comprising a pair of moulded sections of insulating material, a coil spring one end of which is received between said sections, the said end of the spring being so formed as to be held between said sections against twisting therein, an electric cord extending through said spring and into said moulded sections, terminals within said moulded sections to which the cord conductors are connected, and a member rigidly attached to the end of said spring remote from the said moulded sections, said member being moulded to said cord whereby to prevent twisting of the cord relative to said spring and sections.

2,159,164
SUCTION NOZZLE
Johan Fredrik Robert Karlström, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application December 19, 1935, Serial No. 55,147
In Germany December 24, 1934
13 Claims. (Cl. 15—13)



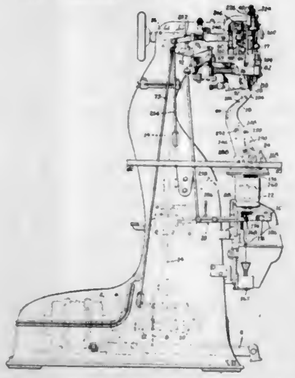
1. In a suction nozzle, a hollow member having an inlet opening and an opening adapted to be connected to a source of suction, an agitator movably mounted within said hollow member, means for reciprocating said agitator including a reciprocable member, means for mounting said reciprocable member in said hollow member so that opposite sides of said reciprocable member may be subjected to substantially different pressures, one side being continuously subjected to a substantially constant pressure, and means for subjecting the other side of said reciprocable member alternately to atmospheric pressure and to the low pressure created by said source of suction.

2,159,165
CONNECTING ROD
Fred E. Kling, Youngstown, Ohio, and Harry Frederick Shaw, McKeesport, Pa.
Application December 30, 1936, Serial No. 118,406
5 Claims. (Cl. 74—579)



3. A connecting-rod having an I-beam body portion, the flanges at one end of said beam adapted to extend beyond the end of said web, said beam being formed so that at least the height of said beam gradually decreases toward said end, metallic reenforcing members secured to the outer surfaces of said flanges adjacent the portions extending beyond the end of the web, reenforcing members secured between said flanges next to said web, the extending portions of said metallic members and flanges having aligned apertures therethrough for connecting said beam to a driving means, and a member secured to and extending longitudinally from the web at the opposite end of said beam for connecting a driven means thereto.

2,159,166
LOCK STITCH SHOE SEWING MACHINE
Clyde L. Knott, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application August 14, 1936, Serial No. 96,005
58 Claims. (Cl. 112—36)



1. A McKay type shoe sewing machine having, in combination, stitch forming devices including a straight hook needle, a rotatable shoe supporting horn having a needle receiving opening at its tip, a thread finger in the horn with its thread engaging portion at a distance from the tip of the horn, a needle looper movable between the tip of the horn and the thread finger, and mechanism for actuating the looper in each sewing cycle before the needle is looped to carry the thread extending from the last formed stitch about the thread engaging portion of the thread finger.

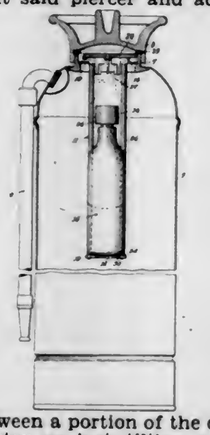
2,159,167
ALCOHOLIC BEVERAGE OF REDUCED INEBRIATING CAPACITY
Leon Lilienfeld, Vienna, Austria
No Drawing. Application January 13, 1938, Serial No. 184,898. In Austria July 11, 1932
11 Claims. (Cl. 99—30)

1. An alcoholic beverage containing from 3 to 60% of ethanol, and containing in solution an organic acid ester of a carbohydrate of the type $n(C_6H_{10}O_5)$ which ester is soluble in aqueous ethanol solution and in water, the inebriating capacity of the said beverage being reduced due to the presence of said carbohydrate ester, as compared with the same alcoholic beverage but without said carbohydrate ester.

2,159,168
FIRE EXTINGUISHER
Peter Graham MacGregor, Pequannock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J., a corporation of Delaware
Application January 3, 1938, Serial No. 182,942
3 Claims. (Cl. 169—31)

2. For use in a fire extinguisher, a cage adapted to retain a cartridge containing a pressure-generating medium for movement from a normal position to cartridge-puncturing position upon inversion thereof and comprising a head unit toward which the cartridge is adapted to move when assuming puncturing position, said unit including a pivotally supported hinge plate, a cartridge piercer carried by said plate and normally disposed in alignment with the axis of the path of movement of said cartridge, and a plurality

of guide lugs carried by said hinge plate and grouped about said piercer and adapted to re-



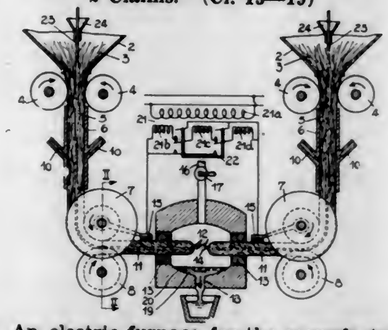
ceive therebetween a portion of the cartridge and retain the latter against tilting as it assumes puncturing position.

2,159,169

ELECTRIC FURNACE FOR MELTING METALS

Robert Mautsch, Brussels, Belgium

Application December 14, 1937, Serial No. 179,789
In Germany December 24, 1936
2 Claims. (Cl. 13—19)



1. An electric furnace for the manufacture of metallic products, particularly alloys, by fusion, comprising at least one electrode constituted of compressed metallic elements, rolls similar to the rolls of rolling mills disposed so as to draw between them a mass of metallic elements to be compressed and to introduce continuously in the furnace the compressed electrode which they have formed by lateral compression, and a discharge orifice for the molten metal arranged in such a manner as to permit the continuous discharge of said metal.

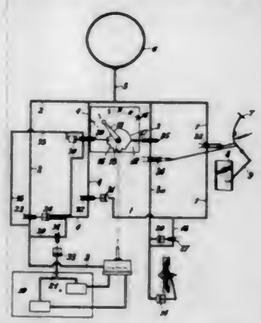
2,159,170

DEVICE FOR ACTUATING A CLUTCH AND A CHANGE SPEED GEAR IN AUTOMOBILES

Karl Maybach, Friedrichshafen, Germany, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany

Application July 10, 1935, Serial No. 30,759
In Germany August 8, 1934
22 Claims. (Cl. 192—.01)

1. In a motor driven vehicle in combination: a gear shift mechanism adapted to be operated by pressure, a first fluid pressure system adapted to operate said mechanism, a control valve in said system, a second fluid pressure system adapted to operate said valve, a control valve in said second system, lever means for actuating the



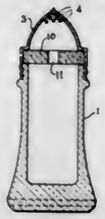
control valve in the second system, and fluid pressure means other than the second fluid pressure system for holding open the control valve in the first fluid pressure system.

2,159,171

SHAKER AND MOISTURE ABSORBING MATERIALS THEREFOR

Jesse C. McCorkhill, Fla.

Application June 24, 1936, Serial No. 87,024
7 Claims. (Cl. 65—57)



2. In a shaker container having a body and a perforated cap removably secured thereto; a perforated disk of stable vapor absorbent material secured between said body and said cap.

3. In a shaker container having a body and a perforated cap secured thereto, a moisture absorbent element of stable character having a passage providing communication between the interior of said body and said perforated cap.

2,159,172

WORK BENCH

Martin H. McMillan, Vallejo, Calif.

Application September 29, 1938, Serial No. 232,427
2 Claims. (Cl. 144—286)



1. In a work bench, a top, supporting legs therefor, one of said supporting legs being provided with a slot, a hand lever pivoted intermediate its end to the underside of said top, a clamp projecting laterally from one end of said lever and working through said slot, said clamp having a lateral jaw for cooperation with the slot-equipped leg for clamping the end of a piece

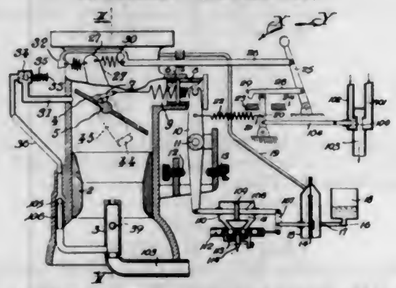
of work therebetween, a rack transversely disposed on the underside of said top, and a lug on said lever cooperable with the rack for securing the lever at the desired position of adjustment.

2,159,173

CARBURETOR FOR INTERNAL COMBUSTION ENGINES

Marcel Mennesson, Neuilly-sur-Seine, France, assignor to "Société Anonyme Solex," Neuilly-sur-Seine, France, a corporation of France

Application November 28, 1936, Serial No. 113,245
In France December 5, 1935
16 Claims. (Cl. 261—65)



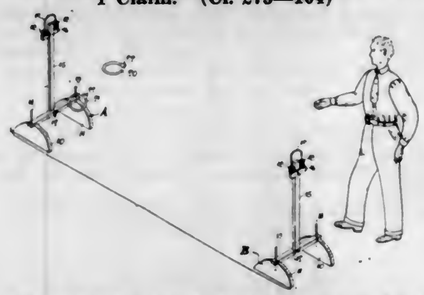
1. A carburetor for internal combustion engines comprising an induction pipe, an offset throttle valve pivoted in said induction pipe, spring means connected at one end to said valve and maintaining said valve against the action of suction in said induction pipe, a movable member operatively connected to the other end of said spring means said member being movable independently of movements of said throttle valve, and means responsive to the pressure existing in said induction pipe to act on said movable member in order to regulate the supply to the engine of carbureted mixture.

2,159,174

GAME AND APPARATUS THEREFOR

James Y. Morris, Lexington, N. C.

Application April 12, 1938, Serial No. 201,478
1 Claim. (Cl. 273—104)



A knockdown game apparatus comprising a pair of spaced semi-circular base members each having a lower flat edge adapted to rest on the ground, the uppermost portions of the base members each having a transversely disposed notch therein, a cross member having its ends fitting in said notches, the ends of the cross member and the base members having coinciding holes penetrating the cross members and extending from the bases of said notches downwardly into the base members, and a goal post having its lower end snugly penetrating the holes in the ends of the cross member and snugly fitting into the holes in the base members to secure the cross member and the base members together, said goal pins projecting upwardly above the cross member to serve as goal posts for the apparatus.

2,159,175

PRODUCTION OF MOTOR FUELS

Martin Mueller-Cunradi and Robert Uloth, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application December 24, 1935, Serial No. 56,087. In Germany December 29, 1934
6 Claims. (Cl. 196—13)

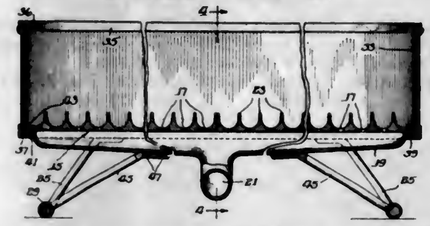
1. A process for dividing a liquid hydrocarbon mixture boiling within the boiling point ranges of benzine into fractions having different octane values which comprises treating the said liquid hydrocarbon mixture with acetonitrile, two separate layers thus being formed, separating the said layers from each other and removing acetonitrile from the layer containing the bulk of acetonitrile.

2,159,176

CLEANING APPARATUS

David V. Nelson, Chicago, Ill.

Application July 17, 1936, Serial No. 91,139
3 Claims. (Cl. 15—15)



1. A cleaning device comprising means forming a receptacle having an opening for the insertion into the receptacle of an article to be cleaned, said receptacle having a perforated wall portion and means forming with said wall portion a manifold on one side of said receptacle, said manifold having means adapted to be connected to a source of reduced pressure to create air currents through the perforated wall portion for the purpose of cleaning an article inserted in the receptacle, said wall portion having a serrated surface against which the article to be cleaned may be rubbed for the purpose of dislodging dirt therefrom for removal by said air currents, the perforations in said wall portions remote from said connecting means being of larger size than the perforations adjacent said means whereby to substantially equalize the air currents throughout the area of said perforated and serrated wall portion.

2,159,177

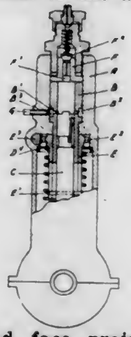
FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES

Harry Ralph Ricardo, London, England

Application May 17, 1937, Serial No. 143,215
In Great Britain May 19, 1936
5 Claims. (Cl. 123—139)

1. A fuel injection pump for internal combustion engines comprising a cylinder having a suction port in its cylindrical wall, and a pump plunger adapted to reciprocate within said cylinder and to control the suction port, so that the

injection period begins when the end of the plunger during its delivery stroke moves over the suction port, said plunger being rotatable about its longitudinal axis within said cylinder and being provided at its end with an end face in a plane normal to the axis of the plunger,



from which end face projects an extension bounded laterally in part by at least one arcuate surface constituting part of the cylindrical surface of the plunger, said arcuate surface terminating laterally in at least one edge which is parallel to the longitudinal axis of the plunger.

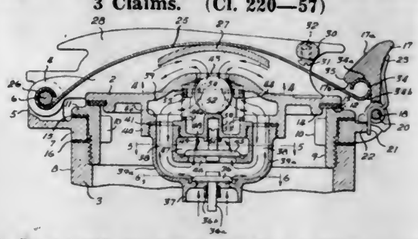
2,159,178

TANK CAP AND VENT VALVE

Frederick F. Rike and Howard W. Webb, Dayton, Ohio, assignors to Buckeye Iron & Brass Works, Dayton, Ohio, a corporation of Ohio

Application August 10, 1936, Serial No. 95,101

3 Claims. (Cl. 220—57)



1. In a tank for liquids having a filler opening therein, a cap hinged to said tank and adapted to open and close said opening and adapted to be closed by movement of said tank, spring retaining means cooperating with said cap, means mounted on said cap for adjusting the compression of said spring retaining means and for limiting the upward movement of the free end of said spring retaining means, and spring pressed locking means pivoted to said tank and adapted to engage said spring retaining means to lock the cap in closed position upon its being closed.

2,159,179

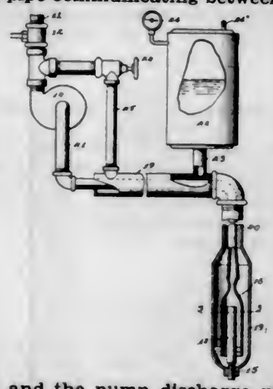
PUMPING APPARATUS

Edward A. Ringgenberg, Lytton, Iowa

Application July 11, 1938, Serial No. 218,520

2 Claims. (Cl. 103—5)

1. A pump apparatus for deep wells, comprising a pump, a discharge pipe leading from the pump, a supply pipe leading to the pump, a well tube, a one way valve at the upper end of the well tube to prevent downward flow of water therein, an injector nozzle surrounding the upper end of the well tube, a pipe leading from the upper end of the injector nozzle to the pump supply pipe, an injector jacket surrounding the injector nozzle, a pressure tank connecting with the injector jacket, a by-pass pipe communicating between the injector jacket and the pump discharge pipe, and a one-way valve between the by-pass pipe and the pump discharge pipe.



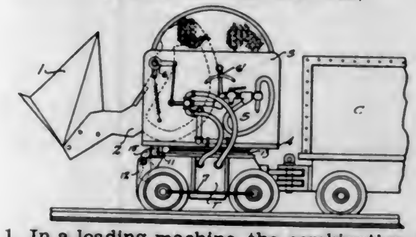
2,159,180

LOADING MACHINE

Edwin B. Royle, Salt Lake City, Utah, assignor to The Eimco Corporation, Salt Lake City, Utah

Application May 28, 1937, Serial No. 145,292

8 Claims. (Cl. 214—132)



1. In a loading machine, the combination with a carriage having a central centering stop for an oscillatable superstructure mounted to turn laterally of the carriage, and a stop on the superstructure, of a pivoted stop mounted on the carriage for alinement with said central stop and adapted to be located in the path of movement of the stop on the superstructure.

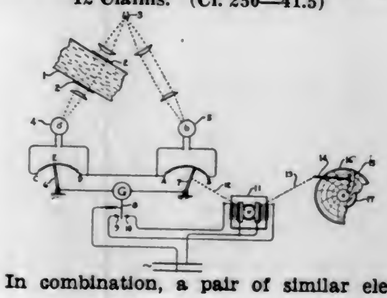
2,159,181

ELECTRIC CONTROL SYSTEM

John D. Ryder, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application April 19, 1933, Serial No. 666,851

12 Claims. (Cl. 250—41.5)



1. In combination, a pair of similar electric circuits, a pair of thermocouples sensitive to varying temperature conditions and connected one in each circuit, a resistance in each circuit, a third circuit including a variable portion of each of said resistances, a galvanometer in said third circuit susceptible to the differential in voltage drops across the portion of the resistances in its circuit, and means under the control of said galvanometer adapted to re-balance said voltage drops after a departure from balance.

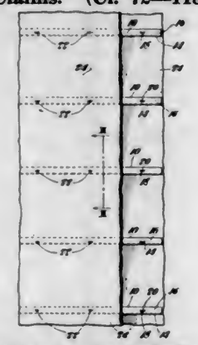
2,159,182

STRUCTURAL MEMBER

Harry C. Sahlmann, Fairfield, Ala.

Application December 14, 1938, Serial No. 245,732

2 Claims. (Cl. 72—118)



1. In combination, a channel-shaped supporting element comprising a pair of opposite flat parallel flanges, a flat web portion spaced inwardly from the edges of the flanges and connected thereto by respective oblique portions whose outer extremities join respective flanges at outer edges thereof, the flanges being slit opposite the oblique portions, a wall panel whose inner face abuts an outer face of one of said flanges, and a nail piercing said element and passing through a slit in said flange and engaging said oblique portion.

2,159,183

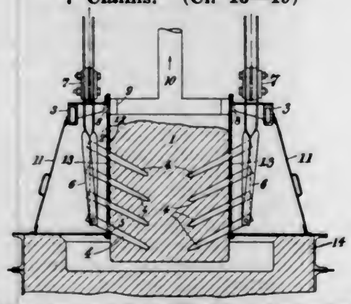
SELF-BAKING ELECTRODE

Mathias Ovrom Sem, Oslo, Norway, assignor to Det Norske Aktieselskab for Electrokemisk Industri, Oslo, Norway

Application July 1, 1937, Serial No. 151,369

In Norway July 8, 1936

7 Claims. (Cl. 13—19)



1. Arrangement for selfbaking electrodes where the electrode mass slides in a permanent metallic mold said mold having slots for contacts being inserted from outside into the electrode, said slots being of sufficient length to allow lowering of electrode and contacts during operation.

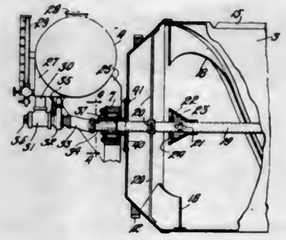
2,159,184

CONCRETE MIXER

Stanley M. Skrzynski, Brooklyn, N. Y., assignor to Cranford Company, Brooklyn, N. Y., a corporation of New Jersey

Application December 16, 1937, Serial No. 180,068

2 Claims. (Cl. 259—168)



1. In a rotary concrete mixer, and in combination, a rotatable mixing drum, means for rotating said drum, means for introducing water axially of said drum, including a pipe stationary relative to said drum, and a second pipe located axially of said drum, fixed thereto for rotation therewith and adapted to discharge water into the interior thereof, said pipes being disposed in axial alignment with ends adjacent, and means for preventing setting of concrete materials in the first mentioned pipe, comprising a blade affixed to said second pipe for rotation therewith and extending into said first mentioned pipe.

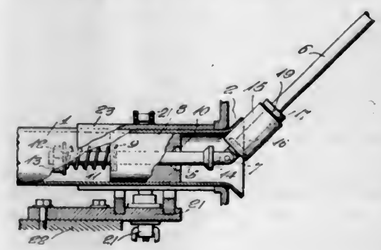
2,159,185

TUBE JOINT TOOL

Edward P. Smith, South Charleston, W. Va.

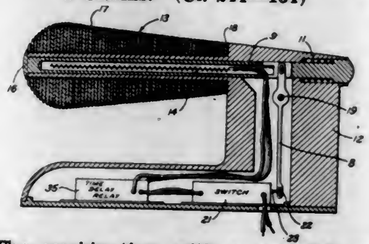
Application March 16, 1938, Serial No. 196,281

4 Claims. (Cl. 153—81)



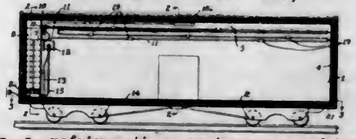
1. A tool of the character described comprising a block of a diameter adapting it to fit snugly within a tube, a shank slidably and rotatably engaged through said block longitudinally thereof, a spring about said shank having one end engaging the inner end of the block for yieldably resisting outward sliding movement of the shank through the block, an abutment for the other end of said spring threaded upon said shank for adjustment along the same for adjusting tension of the spring, a lever arm pivoted to the outer end of said shank for movement from a position in axial alinement with the shank to a position transversely thereof, and a roller rotatably carried by said lever arm adjacent the pivoted end thereof for acting upon an end portion of a tube having the block and shank mounted therein and flaring the walls of the tube to form a circumferentially extending flange.

2,159,186
AUTOMATIC ICE REMOVAL
Kingdon S. Tyler, Bloomfield, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application April 26, 1938, Serial No. 204,474
5 Claims. (Cl. 244—134)



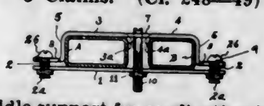
1. The combination, with an aerofoil surface and an auxiliary unit associated therewith, of means for removing ice therefrom, means operated by ice formed on said auxiliary unit to control energization of said ice removing means, means for de-frosting said auxiliary unit, and means for operating said de-frosting means in pre-determined time relation to the operation of said ice removing means.

2,159,187
REFRIGERATING SYSTEM
Lars H. Vold, Butler, Pa.
Application August 20, 1936, Serial No. 96,988
3 Claims. (Cl. 62—91.5)



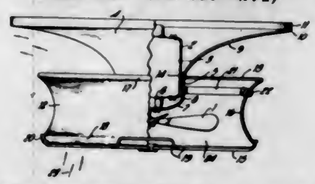
1. In a refrigerating system, a refrigerator chamber, a frozen carbon dioxide compartment, an external wall spaced from the walls of said chamber and compartment to form an insulating space therearound, means for evaporating frozen carbon dioxide in said compartment and circulating the gas through the refrigerator chamber, and perforated conduits extending the full length of and beneath the refrigerator chamber in the insulating space between the walls of said chamber for conducting and distributing the exhaust gases leaving the refrigerating chamber in the insulating space surrounding said chamber.

2,159,188
ADJUSTABLE SADDLE SUPPORT
Paul A. Vollmer, Rochester, Pa., assignor to National Electric Products Corporation, a corporation of Delaware
Application March 11, 1937, Serial No. 130,352
3 Claims. (Cl. 248—49)



1. A saddle support for application intermediate the length of at least one underfloor duct for electrical conductors comprising in assembly a basal element and an opposed clamping element formed and arranged cooperatively with said basal element embracingly to engage at least one such duct, connecting means effective adjacent both ends of the cooperative assembly of the basal element and its opposed clamping element adapted firmly to interconnect the said elements in duct engaging relation, and an adjusting element independent of the connecting means mounted intermediate the length of said elements and between the regions of their interconnection and mounted regulably to project beneath the said basal element regulably to space the assembly as a whole from an underlying floor structure.

2,159,189
AIR CIRCULATING DEVICE
William R. Wais, West Albany, N. Y.
Application February 23, 1937, Serial No. 127,213
4 Claims. (Cl. 230—274)



1. An air circulating device comprising an electric motor, a sheet metal air deflector comprising a surface of revolution laterally surrounding and coaxial with said motor and extending outwardly therefrom, a draft tube having its inner surface approximating a zone of the inner surface of an annular torus and positioned in laterally spaced relation to said deflector to form an air passage therebetween, and a fan driven by said motor and positioned within said tube.

2,159,190
SMOKER'S APPLIANCE
George F. Weiher, Dayton, Ohio
Application March 26, 1938, Serial No. 198,276
3 Claims. (Cl. 131—213)



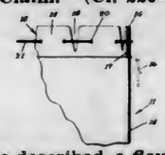
3. A smoking pipe comprising a tobacco bowl having an integral relatively long stem of small diameter extending therefrom, said stem being provided with a cylindrical chamber, an elongated insert element removably located in said chamber, a mouthpiece separate from and secured to said insert element and having an opening extending therethrough, said removable insert element including widely spaced apart plug-like inner and outer end portions tightly fitted in continuous circumferential contact with the wall of the end portions of said chamber to block flow of smoke between said plug-like portions and the wall of said chamber, said insert element also including an intermediate portion extending longitudinally between said plug-like portions thereof and provided with two walls spaced from the chamber wall, said intermediate portion also being provided with semicircular walls at the sides of said two walls thereof contacting the chamber wall substantially throughout the length of said intermediate portion of said element, the said two walls and the semicircular walls cooperating with the pipe stem to form two elongated smoke passages of relatively flat wide cross-sectional contour between the stem and said intermediate portion of said element, the flat wide smoke passages being unobstructed throughout the entire distance between said plug-like portions and being in direct heat exchange relation with said stem, the outer plug-like end portion having a hole extending between the outer end of one of said smoke passages and the opening in said mouthpiece, the inner plug-like end portion and said intermediate portion of said insert element being provided with a straight continuous central longitudinal bore which at one end communicates with the interior of said bowl and has a communication at its other end with the outer end of the other of said smoke passages, at least one of said semicircular walls of said intermediate portion of said insert element having a notch formed therein adjacent the inner plug-like end portion thereof and extending from one of said two walls to the other to provide communication between the two elongated smoke passages, and at least one of said two walls of said insert element having depressions therein to increase the wall area of a smoke passage and to receive deposits of condensable smoke constituents.

2,159,191
PROCESS FOR THE MANUFACTURE OF LEVO-ASCORBIC ACID
Wilhelm Wenner, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application May 26, 1936, Serial No. 81,963. In Germany June 6, 1935
8 Claims. (Cl. 260—344)

1. The process for the manufacture of levo-ascorbic acid, which consists in heating esters of the bismethylene-ethers of 2-keto-levo-gulonic acid with acid agents which are free from oxidizing action.

8. The process for the manufacture of levo-ascorbic acid, which consists in heating di-acetone-2-keto-levo-gulonic-acid-methyl-ester with hydrochloric acid in a diluent.

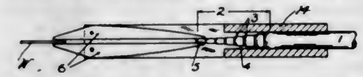
2,159,192
GARBAGE CAN LINER
Ernest Russell Werdin, Los Angeles, Calif.
Application November 27, 1935, Serial No. 51,844
1 Claim. (Cl. 220—65)



In a device as described, a flexible bag having a neck band formed by at least one fold in the upper end of the bag, the neck band portion having longitudinal notches, said notches terminating spaced from the lower edge of the folded over portion of the neck of the bag, the portion of the neck band between the notches having perforations and a cord extended therethrough, the neck band portion being adapted to fold outwardly and the cord to be drawn tight to attach the neck band portion to the rim of a garbage can or the neck band portion being adapted to align with the sides of the bag and to be tightened to form a closure at the neck of the bag, the said notches being adapted to facilitate folding of the neck band.

2,159,193
VISE
Joseph H. Williams, Saginaw, Mich.
Application April 3, 1937, Serial No. 134,766
1 Claim. (Cl. 81—4)

In a vise having a tubular sleeve with a bifurcated end portion, opposed jaw members pivotally connected, a longitudinally movable jaw-actuating element operatively received between rearward portions of said jaw members, said jaw-actuating element and the rearward portion of at least one of the jaw members engaged thereby presenting mutually coacting faces, certain of said faces being arranged stepwise relatively to each other and inclined; others of said faces



intermediate said stepwise faces being non-inclined, said tubular sleeve being freely rotatable relatively to said jaw-actuating element and having its tubular portion arranged to receive said element in alinement with said rearward portions of the jaw members; and having its bifurcated portion arranged to prevent rotation of the jaws relatively to the sleeve.

2,159,194
METHOD OF MAKING PECTIN PRODUCTS
Clarence Walter Wilson, Corona, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
No Drawing. Application October 1, 1936, Serial No. 103,574
1 Claim. (Cl. 99—132)

A method for the preparation of a granular pectin product comprising the steps of heating substantially dry dextrose hydrate at a temperature and for a time sufficient to convert the same to a substantially liquefied form having crystalline nuclei therein contained, adding to and mixing with the substantially liquefied dextrose a quantity of dry powdered pectin particles and cooling the mixture to form a dry crystalline mass having the powdered pectin particles discontinuously embedded throughout.

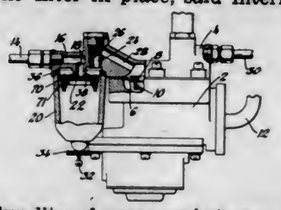
2,159,195
WATER-SOLUBLE DERIVATIVES OF VAT DYESTUFFS
Ludwig Zeh, Leverkusen-Wiesdorf, and Claus Heuck, Leverkusen-I. G.-Werk, Germany, assignors to Durand & Huguenin Aktiengesellschaft, Basel, Switzerland, a corporation of Switzerland
No Drawing. Application November 14, 1933, Serial No. 698,014. In Germany November 18, 1932
7 Claims. (Cl. 260—321)

1. As new products the salts of acid sulfuric acid esters of the leuco compounds of vat dyestuffs with bases obtainable by the action of at least one molecular proportion of an alkylene oxide upon triethanolamine, being generally stable, dark colored oils which are easily soluble in water.

2,159,196
METAL PLATE FILTER
Abraham M. Babitch, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 25, 1937, Serial No. 165,691
10 Claims. (Cl. 210—169)

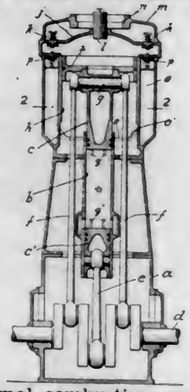
1. In a liquid filter having a bowl removably secured in the path of the liquid, a mounting plate secured in position by the bowl, a retainer ring below the plate, a plurality of filtering rings of less diameter than the plate positioned between the plate and retainer ring, bent over tabs on the filtering rings to space one filtering ring

from the other, and means passing through the retainer ring, the filtering means and the plate, to secure the filter in place, said filtering rings



having a plurality of passages between their inside and outside diameters to allow the filtered liquid to pass through the filter.

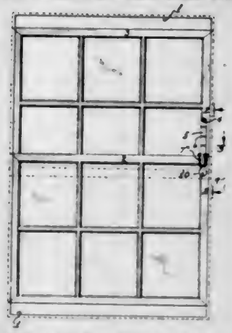
2,159,197
DIESEL ENGINE
Joseph Barraja-Frauenfelder, Swarthmore, Pa., assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa., a corporation of Pennsylvania
Application October 7, 1937, Serial No. 167,766
1 Claim. (Cl. 123—51)



In an internal combustion engine a working cylinder, opposed working pistons in said cylinder, a crank shaft, side rods connecting the outer working piston to the crank shaft, a scavenging air pump comprising a cylinder circular in cross section and of a diameter to embrace said side rods positioned adjacent to the outer end of said working cylinder, and a piston in said scavenging air cylinder connected to and adapted to be operated by the outer working piston, said scavenging air pump having a volumetric capacity in excess of the requirements of air for scavenging the working cylinder and having a ratio of compression such as to provide air for scavenging the working cylinder at a terminal pressure not substantially in excess of that required for scavenging the working cylinder without passage through the working cylinder of an excess of air.

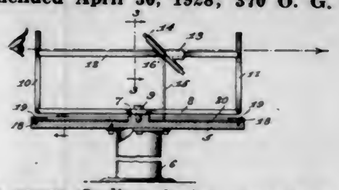
2,159,198
SASH LOCK
Isidore Birman, Peekskill, N. Y.
Application June 11, 1938, Serial No. 213,169
1 Claim. (Cl. 70—90)

A sash lock comprising a casing having angularly extending sections, one section being adapted for engagement with the front of a sash and the second section to overlie an edge margin of the sash, a bolt slidably movable within the last-named casing section, a key-operated barrel disposed in the first-named section and operatively connected to the bolt, an apertured yoke plate adapted to embrace the bolt-receiving sec-



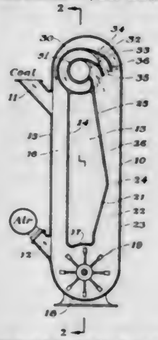
tion of the casing, and a screw passing through said yoke plate and threaded within the lock barrel-receiving section of the casing.

2,159,199
RANGE FINDER
Donald P. Bennett, Washington, D. C.
Application September 17, 1938, Serial No. 230,369
8 Claims. (Cl. 88—2.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



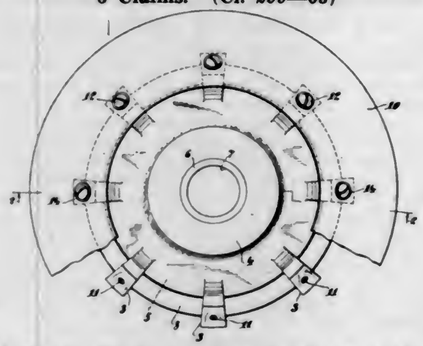
1. A range finding device comprising a table having thereon a circular perspective reproduction of the surrounding field of view, an alidade rotatably mounted on said table, a horizontal beam mounted on said alidade, a rider slidably mounted on said beam and a spattered silvered mirror fixed to said rider.

2,159,200
COAL BURNING APPARATUS
Herman Bleibtreu, Darmstadt, Germany, assignor to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application November 21, 1936, Serial No. 112,052
13 Claims. (Cl. 110—104)



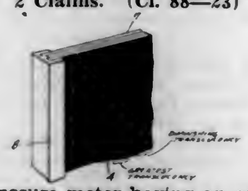
1. Coal burning apparatus comprising, in combination, means for pulverizing coal, means for conducting pulverized fuel from said pulverizing means, said conducting means comprising a throat portion gradually contracting to a region of minimum cross-section, a burner including a central duct and an outer duct surrounding said central duct, said conducting means including an expanding throat portion increasing progressively in cross-sectional area from said region of minimum cross-section to and communicating with said burner, said coal burning apparatus providing a passageway around the outside of said burner and communicating with said conducting means for returning relatively heavy particles to said pulverizing means, and a vane in said conducting means for predetermining the portion of the relatively heavy particles of said pulverized fuel which shall be returned to said pulverizing means.

2,159,201
ATOMIZER
William Spencer Bowen, Westfield, N. J.
Application December 23, 1937, Serial No. 181,273
6 Claims. (Cl. 299—63)



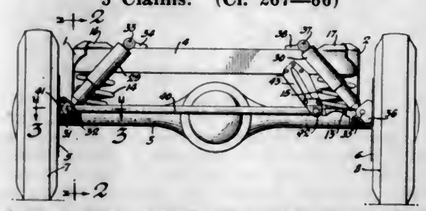
1. In an atomizer of the rotatable spray-head type, a spider comprising a hub formed with upwardly and outwardly extending arms adjacent the periphery thereof, said hub being adapted to be secured to a drive shaft and having all portions of its upper surface formed at an angle to the central axis, and said arms being formed with inner surfaces oblique to the said central axis.

2,159,202
EXPOSURE METER
Leo H. Brown, New York, N. Y.
Application September 9, 1938, Serial No. 229,098
2 Claims. (Cl. 88—23)



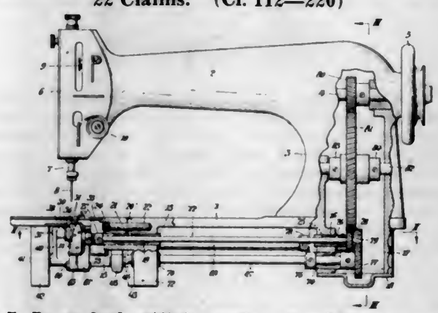
1. An exposure meter having an opaque background and a first row of light-permeable stop-numbers, each stop-number having an associated row of light-permeable markings, the markings in each row respectively indicating different exposure periods and being arranged in the order of their respective numerical values, the markings of highest numerical value being located at corresponding ends of said associated rows, markings of said associated rows being also arranged and located in zones which make angles with said associated rows, said exposure meter having different light-permeabilities along said associated rows at the areas occupied by said markings, said light-permeabilities being equal in each zone, the light-permeabilities of said areas corresponding to the numerical values of the respective markings so that if one marking is visible under transmitted light in a zone, the other markings in said zone are also visible and the areas occupied by the smallest numbers having the smallest light-permeability, and the smallest visible number in an associated row indicates the correct exposure time for the associated stop-number, with the use of said transmitted light.

2,159,203
SPRING SUSPENSION
Charles A. Chayne, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 6, 1938, Serial No. 183,642
5 Claims. (Cl. 267—66)



1. In a motor vehicle, in combination, a frame, an axle carrying brake backing plates for road wheels on opposite sides of the vehicle, a transverse member of the frame above the axle, spring means between the axle and the frame, diagonal bracing brackets secured between points spaced from each other on the axle and each of the brake backing plates respectively, direct acting shock absorbers pivotally connected to longitudinally disposed pivot pins on the said brackets and the transverse member respectively, and a radius rod arranged transversely of the vehicle to control movement of the axle transversely of the frame, said radius rod having one end pivotally connected to the transverse member towards one side of the vehicle and its other end pivotally connected to the bracket between the axle and the braking plate of the wheel on the opposite side of the vehicle.

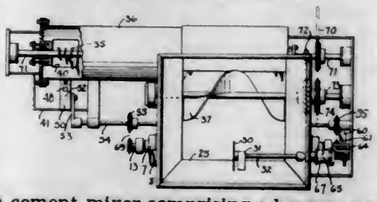
2,159,204
LOCK STITCH SEWING MACHINE
Norman V. Christensen, Chicago, and Harold J. Le Vesconte, Western Springs, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application January 25, 1936, Serial No. 60,765
22 Claims. (Cl. 112—220)



7. In a lock stitch sewing machine, a work

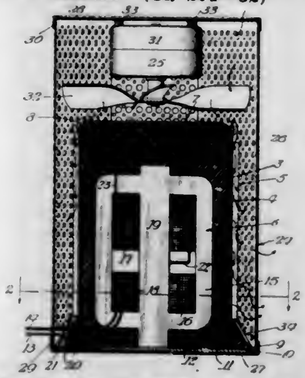
support, a needle; a cooperating rotary hook and a feed dog beneath the work support; parallel rotary shafts journaled beneath said work support, one carrying the rotary hook, and two others respectively having means whereby lift and feed movements are imparted to the feed dog; a system of intermeshing gear wheels interconnecting said shafts; and a closed housing for the gear wheels containing oil for their lubrication.

2,159,205
CEMENT MIXER
John F. Clemens, Refugio, Tex.
Application May 20, 1937, Serial No. 143,642
4 Claims. (Cl. 259—165)



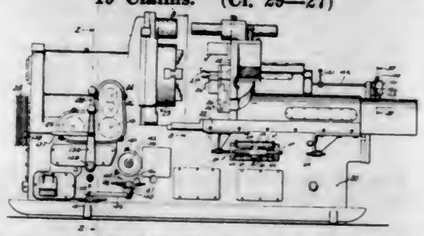
1. A cement mixer comprising a hopper, a mixing apparatus therein, means for driving said mixing apparatus, a water inlet, a rotatable valve operable to control the volume of water, a cutter device movable to slit the cement sacks, and means operable independently of said mixing apparatus to close said valve and stop movement of said cutter whereby said first means continues to drive said mixing apparatus.

2,159,206
ELECTRIC OZONE GENERATOR
James M. Daily, Chicago, Ill., assignor to American Ozone Company, Chicago, Ill., a corporation of Illinois
Application May 18, 1936, Serial No. 80,362
7 Claims. (Cl. 204—32)



1. A generator for the purpose set forth, comprising in combination a jar-type dielectric embodying a continuous side wall with an integral cross-wall at one end thereof, a high tension electrode disposed within the dielectric and extending around the inner face of the side wall thereof, a grounded electrode extending around the side wall of the dielectric, a step-up transformer connected to supply high voltage current to the high tension electrode and disposed in the central portion of the dielectric and with one end thereof in spaced relation with the cross-wall, and a mass of insulating material surrounding the transformer and completely covering said one end of the transformer and filling the space between the latter and said cross-wall.

2,159,207
MACHINE TOOL
Louis Edward Godfriaux, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application November 13, 1937, Serial No. 174,358
19 Claims. (Cl. 29—27)

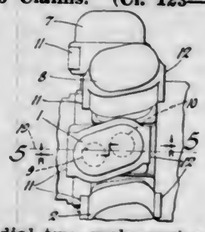


1. In a lathe having a carriage reciprocable between loading and cutting positions and a reciprocable cross slide member carried thereon, the combination of a rotatable cam drum connected for movement of said cross slide member, a transmission for rotation of said drum, a power train for said carriage movement, manually operable control means for connection of said power train to effect carriage movement to said cutting position and substantially simultaneously to connect said drum transmission, and control means subsequently operative at a predetermined point in the rotation of said drum to connect said carriage train to effect carriage movement to said loading position and substantially simultaneously to disconect said drum transmission.

2,159,208
METHOD OF MANUFACTURE OF SMOKELESS POWDER
Ellsworth S. Goodyear, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1937, Serial No. 160,723
6 Claims. (Cl. 52—22)

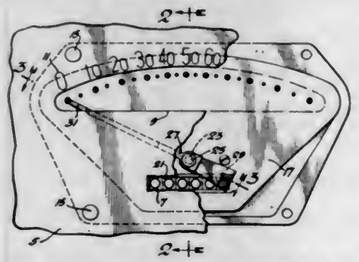
1. In the manufacture of colloided, double base smokeless powders, the step of colloiding nitrocellulose at ordinary temperatures by a mixture consisting of anhydrous solvents for the nitrocellulose.

2,159,209
U-TYPE TWO-CYCLE RADIAL ENGINE
Ronald M. Hazen, Ferndale, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 30, 1936, Serial No. 118,212
5 Claims. (Cl. 123—53)



1. In a radial two cycle engine having a plurality of U type cylinders, each including a pair of cylinder barrels with a common combustion chamber, pistons in the cylinders, a crankshaft, and connecting rods for the pistons, there being piston controlled inlet ports in one cylinder barrel and exhaust ports in the other of each pair, the arrangement of the exhaust cylinder barrel of each U type cylinder somewhat in advance of its associated inlet cylinder barrel with respect to the direction of rotation of the crankshaft, with alternate U type cylinders offset from each other axially of the crankshaft in two banks spaced apart a distance equal to approximately one-half the distance between the cylinder bore centers of the cylinder barrels of each U type cylinder, said connecting rods of all the pistons having a common crankpin axis on the crankshaft, and being in one or another of four different planes transverse to the axis thereof.

2,159,210
SPEEDOMETER POINTER
Ralph O. Helgeby, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 13, 1937, Serial No. 179,448
4 Claims. (Cl. 116—129)



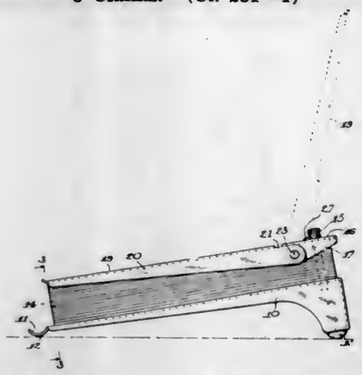
1. A measuring instrument having a first set of indicia and a pointer, said instrument having a rotatable stem, one end of said pointer being mounted on said stem and a transparent counterweight tail piece having one end mounted on said stem and extending diametrically away from the pointer, said instrument having a second set of indicia fixedly located in position and adapted to give readings independently of said pointer, said second set of indicia being visible through said tail piece.

2,159,211
SUCTION SWEEPER AND MOP
Albert Herman, New York, N. Y.
Application May 14, 1937, Serial No. 142,527
3 Claims. (Cl. 15—10)



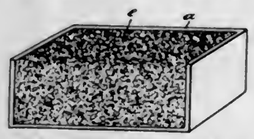
1. In a suction sweeper and mop, a flat body having a suction device mounted thereon with a downwardly projecting inlet extending through an opening therein, bristles mounted around the periphery of the bottom face of said flat body, and an elongated hollow mopping unit having a floor contacting suction mouth on the bottom face of said flat body between said bristles and having one of its ends pivotally attached to the inlet of said suction device so that said mopping unit may be pivoted in a horizontal plane relative to said flat body so as to operate on a bias with relation to the direction in which the device is being moved to direct the dust and dirt from the other end of said mopping unit toward the said pivoted end where it will be convenient for said suction device to pick it up.

2,159,212
DESK PAD
Samuel N. Hope, Wauwatosa, Wis., assignor to Columbian Art Works, Milwaukee, Wis., a corporation of Wisconsin
Application July 2, 1937, Serial No. 151,649
5 Claims. (Cl. 281—1)



1. In a desk pad having a base adapted to support thereon a stack of sheets, the combination of a head plate engageable with said stack of sheets and secured to said base, and a cover for said sheets having downwardly projecting side flanges pivotally connected to said head plate, said cover having a transverse edge adjacent said head plate and engageable with said head plate to limit the upward swinging movement of said cover to a substantially upstanding position.

2,159,213
UPHOLSTERY PADDING MATERIAL
Joseph Arthur Howard, London, England, assignor of one-third to The Moulded Hair Company Limited, London, England, and one-third to Josef Anton Talalay, Bedford, England
Application January 30, 1937, Serial No. 123,232
In Great Britain February 10, 1936
4 Claims. (Cl. 18—53)



1. A method of producing a cellular rubber structure from an aqueous dispersion of rubber and embedding a mass of fibres, consisting in individually sheathing with a stiffening coating and arranging fibres in an open loosely associated condition, and subsequently introducing into the interstices between said fibres an aqueous dispersion of rubber and forming directly from said aqueous dispersion a cellular rubber structure within said interstices.

2,159,214

DOUBLE SALT OF CALCIUM ASCORBATE AND CALCIUM ACETYLSALICYLATE AND PROCESS OF MAKING SAME

Samuel Klein, Newark, N. J.

No Drawing. Application May 19, 1938, Serial No. 208,806
4 Claims. (Cl. 260—344)

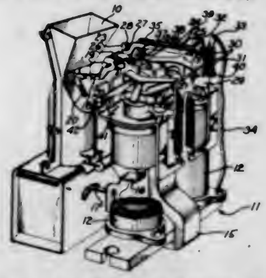
4. A pharmaceutical product comprising the double salt of calcium acetylsalicylate and calcium ascorbate.

2,159,215

COIN CONTROLLED APPARATUS

Morton L. Landreth, Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 21, 1936, Serial No. 91,636
8 Claims. (Cl. 194—16)



8. In a coin actuated apparatus, a container for receiving a deposited coin, a coin directing mechanism in the container, an electromagnet for operating the coin directing mechanism, an electrical circuit for supplying current to the electromagnet, a pair of tensioned contact springs in the circuit, a rotatable segment having insulated and conducting portions positioned between the springs with the insulated portion normally engaging the springs, an arm extending from the segment into the container for rotating the segment when a coin is deposited for positioning the conducting portion of the segment between the springs and completing the circuit to the electromagnet, means for restoring the arm and segment to normal, a cam between the springs operated by the electromagnet for spreading and removing the springs from the segment when the electromagnet is energized to facilitate restoration of the arm and segment to normal, and means for maintaining the circuit to the electromagnet during the movement of the cam comprising a bridging spring interposed between the cam and one of the contact springs, said bridging spring being normally insulated from the adjacent contact spring and connected electrically to the opposite contact spring and being adapted to engage the adjacent spring during the major period of cam movement for maintaining the circuit to the electromagnet during said period.

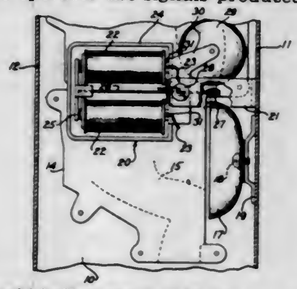
2,159,216

TELEPHONE COIN-COLLECTING APPARATUS

Arthur C. Link, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 27, 1936, Serial No. 87,679
1 Claim. (Cl. 194—16)

In a telephone pay station having a housing, a coin chute, a ringer unit mounted parallel to said coin chute for signalling the subscriber, a bell or gong secured to said housing in a plane perpendicular to the plane of said chute in such a position that a coin passing through said chute will strike said bell or gong twice, and an electrical pick-up device arranged to transmit to the central office operator the signals produced by coins



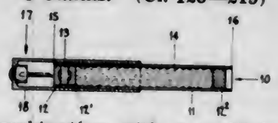
striking said bell or gong, said ringer unit having a single bell or gong mounted thereon in a plane perpendicular to the plane in which said first mentioned bell or gong is mounted and having a clapper arranged to strike both of said bells or gongs.

2,159,217

CONTROLLABLE TRANSFER ELEMENT FOR MULTIPLE AMPULES

Matthew Lozier, Brooklyn, N. Y., and Clayton H. Frost, Newark, N. J., assignors, by direct and mesne assignments, to Cook Laboratories, Inc., New York, N. Y., a corporation of Delaware

Application November 5, 1937, Serial No. 172,892
3 Claims. (Cl. 128—215)



1. In combination with a multiple compartment ampule having two movable end disks and a permanently fixed intermediate disk, a transfer element for transferring the contents from one compartment to the other, said transfer element comprising a tubular casing having a needle mounted therein, said needle having one piercing end and a collar at the end opposite the piercing end, the said needle having a channel positioned axially thereof, said channel having inlet means laterally and intermediate the ends of said needle, said ampule having three disks in spaced relation therein, two of said spaced disks being positioned at one end of said ampule to be successively penetrated by said piercing element, said lateral inlet means being spaced from said collar a distance substantially equal to the thickness of the end disk to be initially penetrated, one disk being positioned inwardly at one end of said ampule to form an open space outside the disk at said end, said open space being substantially filled by said inwardly positioned disk during said transferrence.

2,159,218

WAX

Frederick H. MacLaren, Calumet City, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application September 25, 1937, Serial No. 165,686
4 Claims. (Cl. 87—19)

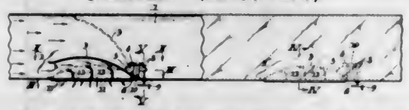
2. As a new article of manufacture having an opaque appearance a mixture of paraffin wax and from about 0.5% to 5% of a hydrogenated vegetable oil.

2,159,219

SYSTEM OF AIR DISTRIBUTION

William J. Madden, Lansdowne, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 29, 1936, Serial No. 108,121
3 Claims. (Cl. 98—106)



1. In a system of air distribution, the combination with an air supply duct having an outlet opening in its lateral wall, of a transverse swinging closure and deflector damper in said duct having a closed outer position over said outlet opening and an axis of swing substantially at the far side of said opening, speaking with reference to the direction of air flow in the duct, and swingable from its said outer closed position inward further and further into and across the duct, so as to deflect more and more of the air flow therein through the outlet; and a series of transverse pick-up baffles extending inward from said outlet opening, and accommodated between the opening and said damper when the damper is closed as aforesaid, but coacting with said damper, when it is opened, to distribute the air flow deflected by the damper over the extent of the opening lengthwise of the duct.

2,159,220

MANUFACTURE OF LUBRICANTS

George M. McNulty, Cranford, N. J., and Elmer W. Adams, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application April 19, 1937, Serial No. 137,764
5 Claims. (Cl. 87—9)

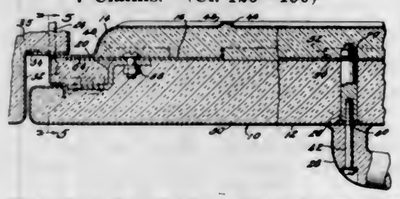
5. The process of producing lubricating oils adapted to the lubrication of automatic variable speed power transmissions, comprising subjecting an unsaturated hydrocarbon distillate selected from the class consisting of reformed naphtha and mixtures of reformed naphtha with pinene to the catalytic polymerizing action of an active metal halide whereby unsaturated hydrocarbon constituents are polymerized to higher molecular weight lubricating oil, separating the resulting polymerized oil from catalyst sludge and removing unpolymerized hydrocarbons from the lubricating oil product.

2,159,221

STOVE DOOR

Herbert E. Mills, Detroit, Mich., assignor to Borg-Warner Corporation, a corporation of Illinois

Application February 19, 1937, Serial No. 126,578
7 Claims. (Cl. 126—190)



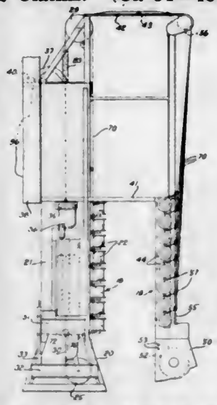
2. In a door for closing a compartment, said door having spaced panel and lining members fastened together by engageable flanges on each member, means for supporting said door about an axis, means for spacing said members so that insulating material can be housed in said space, and a handle for said door and secured to said spacing means rather than to either of said members so that said members are relieved of the strains subjected to said door during the movement thereof.

2,159,222

APPARATUS FOR COATING STRANDS

Edwin E. Newton, Montreal, Quebec, and Hugh P. Ray, Mount Royal, Quebec, Canada, assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Original application December 22, 1932, Serial No. 648,414, now Patent No. 2,032,950, dated March 3, 1936. Divided and this application January 14, 1936, Serial No. 59,063
2 Claims. (Cl. 34—48)



1. In a wire coating apparatus, an upright heating chamber comprising a vertical outer wall, an inner wall supporting frame suspended from said outer wall, and a vertical inner wall section having its lower end attached to said supporting frame and its upper end freely movable to permit expansion thereof in response to temperature variations within said chamber, and means for passing a coated wire to be treated through said chamber.

2,159,223

EXTENSION KEY CHAIN

Nathaniel N. Okun, Bronx, N. Y., assignor to Swank Products, Inc., a corporation of Delaware

Application December 12, 1938, Serial No. 245,089
4 Claims. (Cl. 24—3)

4. A device of the type described comprising an article holding element, an element for attachment to a part of wearing apparel, a flexible member having one end secured to one of said elements with another portion slidable through a part carried by the other of said elements and then extending back on itself to provide a loop, a unit secured to the other end of the member and having a body with an opening through it through which opening the other portion of the loop of the member extends, the point of securing the said other end of the chain to the unit and the direction of the opening through the unit being so arranged that the through portion of the flexible member is but slightly out of alignment with the portions of the flexible member outside of the unit which it joins, means in the unit for frictionally gripping the through portion

of said member with sufficient pressure to maintain its position in normal use but permit manual



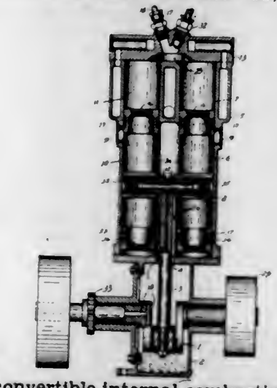
sliding for changing the effective length of the flexible connection between said elements.

2,159,224

CONVERTIBLE INTERNAL COMBUSTION LIQUID FUEL MOTOR OR ENGINE

Elmer L. (Granddaddy) Osborne, Detroit, Mich., assignor to Eco Motor Works, Inc., Detroit, Mich., a non-profit, cooperative corporation of Michigan

Application December 18, 1935, Serial No. 55,070
2 Claims. (Cl. 123—53)



1. A convertible internal combustion liquid fuel motor or engine comprising a hollow piston pin provided with plugs in both ends, internal projecting threads over said plugs, forming a lubricating oil chamber within the piston pin said pin attached to the outer end of the connecting rod and having lubricated working bearings in two pistons reciprocating within corresponding cylinders in combination with a sealed, air and oil tight, lubricating oil supply container and lubricating oil within the piston pin.

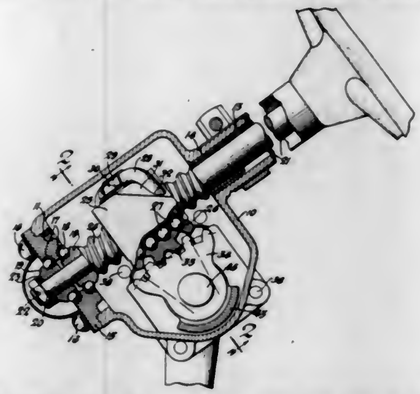
2,159,225

STEERING GEAR

Alva W. Phelps and Walter A. Kull, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 15, 1937, Serial No. 169,112
6 Claims. (Cl. 74—499)

1. A steering gear comprising a housing, a helically grooved shaft member mounted for rotation within said housing, a nut on said shaft having a toothed outer side and having a helical internal groove with orifices adjacent each end leading tangentially from the groove to an outer side face of the nut, balls filling the opposed grooves on said shaft and said nut, a U-shaped



tube extending diagonally across the top of the nut and having the ends insertable through the orifices in said nut and extending tangentially into the path of the balls in said opposed grooves, a rock-shaft and a gear sector secured to said rock-shaft and meshing with the toothed side of said nut.

2,159,226

ELECTRIC STORAGE BATTERY PLATE AND A METHOD OF TREATING SUCH PLATE

Albert R. Reid, Niagara Falls, N. Y., assignor to U S L Battery Corporation, Niagara Falls, N. Y., a corporation of New York

No Drawing. Application January 31, 1935, Serial No. 4,351
16 Claims. (Cl. 136—78)

6. An unformed paste for battery plates comprising lead oxide and a persulphate.

2,159,227

POWDER PUFF

Emma L. Reiffert and Ernst A. Reiffert, Chicago, Ill.

Application June 20, 1938, Serial No. 214,621
3 Claims. (Cl. 132—78.5)



1. A powder-puff comprising a resilient pad and a series of wrappers around and enclosing the pad, each wrapper being adapted to be torn off after use to expose the succeeding wrapper for use.

2,159,228

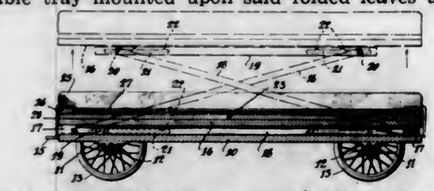
FOLDING FURNITURE

Ida L. Rogers, New York, N. Y.

Application April 15, 1936, Serial No. 74,442
2 Claims. (Cl. 280—34)

1. In a collapsible, convertible tea-wagon and table, in combination, a platform, a pair of leaves of L-shaped cross-section each pivoted at its vertex edge to a corresponding edge of said plat-

form for movement through 180°, and a removable tray mounted upon said folded leaves and



held against lateral movement by the upwardly extending flanges thereof.

2,159,229

MANUFACTURE OF FUZE HEADS FOR ELECTRICAL FIRING

Leon Rubenstein, Saltcoats, and Wilfrid Taylor, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

Application March 9, 1937, Serial No. 129,904
In Great Britain March 11, 1936
5 Claims. (Cl. 102—10)



1. An electric blasting initiator containing an ignition composition comprising a basic lead salt of 3:5-dinitro-2-hydroxy toluene containing 47 to 62% of lead.

2,159,230

FISH LURE

Kenneth B. Sage, Central Lake, Mich.

Application August 4, 1938, Serial No. 222,983
4 Claims. (Cl. 43—46)



1. An artificial lure of the character described, comprising an upwardly arched body, a U-shaped rod revolvably mounted in said body and provided with hooks hingedly connected to the lower ends thereof, spacers mounted on said rod and interposed between the body and the depending legs of the rod, and a spinner and hook assembly secured to the underside and at the rear of said body.

2,159,231

PRODUCING NICKEL ALLOY ARTICLES

Leo Schlecht, Ludwigshafen-on-the-Rhine, and Walter Schubardt, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Original application October 25, 1934, Serial No. 749,922. Divided and this application May 21, 1936, Serial No. 81,022. In Germany March 26, 1928
5 Claims. (Cl. 75—22)

1. The process of producing nickel alloy articles containing not more than 0.3 per cent of carbon which comprises heating to a sintering temperature a mixture composed of a nickel powder obtained directly by the thermal decomposition of nickel carbonyl, said nickel powder being free from manganese, magnesium, copper, silicon and phosphorus, containing not more than 0.002 per cent of sulphur and having an average size of the particles not exceeding 10 mu, and of at least one further metal from the group consisting of iron, chromium, copper and manganese, said further metal having an average size of the particles not exceeding 100 mu, said heating operation resulting in consolidation of the mixture of metal powders into a nickel alloy article, said consolidation being assisted by the application of mechanical pressure at a time following the beginning of the heating.

2,159,232

PRESSURE FLUID MOTOR

Ernest H. Shaff, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a corporation of Michigan

Application October 28, 1937, Serial No. 171,519
7 Claims. (Cl. 121—34)



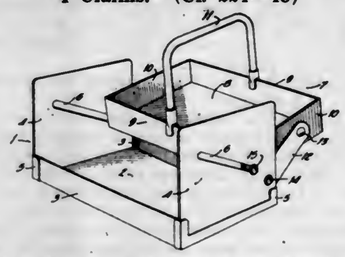
1. A reversible pressure fluid operated motor comprising, in combination, a cylinder having a bore of elliptical cross section, a rotor journaled for rotation eccentrically in said bore in close proximity to the bore wall substantially on the minor axis of the ellipse, said rotor having six equidistantly spaced substantially radial slots therein, a vane slidably seated in each slot for projection into wiping engagement with the bore wall during rotor movement, said ellipse being dimensioned to permit movement of said vanes outwardly substantially to their fully projected position in less than one-half of a complete revolution of said rotor, said cylinder having a permanently open exhaust port to atmosphere located approximately in diametrically opposed relation to the point of close proximity of the rotor and bore wall, and having an inlet passage on each side of said point leading to the space between the rotor and bore wall, a source of pressure fluid, and a single reversible valve adapted selectively to connect either of said inlet passages with said source and the other inlet passage with atmosphere.

2,159,233

PORTABLE DISPLAY RACK

Jay Stannard, Troy, N. Y.

Application July 8, 1936, Serial No. 89,556
4 Claims. (Cl. 224—48)



1. In a device of the character described, two relatively movable trays having upstanding end

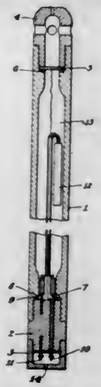
portions, a link pivotally connected to and lying between each adjacent pair of said end portions of said trays and near adjacent sides thereof when said trays lie in superposed positions, the end portion of one tray being provided with a slot having one end disposed near the side opposite to the side thereof first mentioned and said slot extending from its said end downwardly and transversely of said end portion, and a pin secured to the other tray and slidably disposed in said slot whereby said trays may be moved to superposed and to relatively laterally spaced positions of equilibrium.

2,159,234

GAS-PRODUCING NONDETONATING COMPOSITION

James Taylor, Saltcoats, Ayrshire, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application March 10, 1936, Serial No. 68,143
In Great Britain March 11, 1935
9 Claims. (Cl. 52—14)



1. In a pressure-operated device, in combination a pressure-resistant, pressure-responsive container, deflagrating ignition means and a deflagrating gas-generating composition capable of undergoing self-sustaining decomposition without detonation, said composition comprising ammonium nitrate, a carbonaceous substance which combines exothermically with oxygen and at least approximately 1% of a substance comprising at least one member of the group consisting of chromic oxide, alkali metal chromates, ammonium chromate, ammonium dichromate, and alkali metal polychromates.

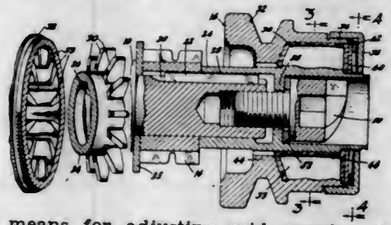
2,159,235

TORSIONAL VIBRATION SUPPRESSOR

John M. Tyler, Birmingham, and Thomas C. Van Degrift, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 4, 1934, Serial No. 718,950
8 Claims. (Cl. 74—574)

1. In a torsional vibration suppressor, an inner member provided with outward radiating blades, an outer inertia member surrounding the inner member, said outer member having one end open, and inward radiating blades intercalated with and spaced circumferentially from the blades of the inner member, said blades of both members terminating short of said open end; elastic rubber disposed between the blades of the inner and outer members and extending beyond the ends of said blades toward said open end, an annular presser device bearing against the rubber at the open end,



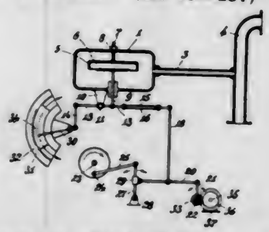
and means for adjusting said annular device against the rubber.

2,159,236

DEVICE FOR CONTINUOUSLY REGISTERING THE REVOLUTIONS OF AN INTERNAL COMBUSTION ENGINE IN CONSIDERATION OF THE ACTUAL LOAD

Edmond Uher, Munich, Germany, assignor to the firm P A G Patentgesellschaft A. G., Zurich, Switzerland

Application October 29, 1936, Serial No. 108,164
In Germany November 4, 1935
6 Claims. (Cl. 73—187)



3. A registering device for indicating the total load taken upon by a combustion engine during its running period, said device comprising a register, a crank arm driven by the crank shaft of the engine, a swinging lever actuated by said crank arm, a slidable collar adjustable on said lever, a swinging arm intermittently actuating said register, a bar connecting said sliding collar with said swinging arm, a pressure chamber connected to and subject to the pressure in the intake pipe of the engine, a pressure box within such pressure chamber a diaphragm forming the bottom of said pressure box, a spindle fixed to said diaphragm and projecting downwardly through the bottom of said pressure chamber, a double armed lever pivotally arranged below said pressure chamber, one arm of said lever being pivotally connected to said bar and said spindle and including a bimetal bar, an adjustable scale, and a pointer moving over said scale, said pointer being driven by the second arm of said two-armed lever.

2,159,237

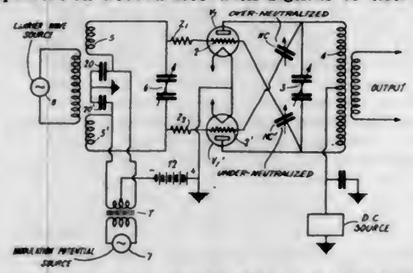
PHASE MODULATION

George Lindley Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application October 26, 1935, Serial No. 46,857
18 Claims. (Cl. 179—171)

2. A phase modulator comprising in combination, a pair of thermionic amplifiers, means for impressing wave energy to be phase modulated on said amplifiers, common means for deriving wave energy from said amplifiers, means for under-neutralizing one of said amplifiers, means

for over-neutralizing the other of said amplifiers, and means for varying the gain of said amplifiers in accordance with signals to thereby



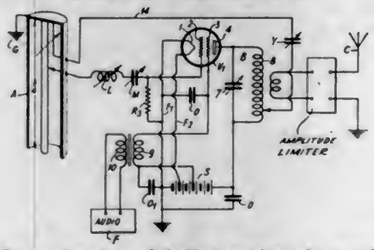
vary the amount of energy which can be derived from each of said amplifiers and consequently the phase of the combined energy which may be derived from said amplifiers.

2,159,238

PHASE MODULATION

George Lindley Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application August 14, 1936, Serial No. 96,047
6 Claims. (Cl. 179—171)



2. In a phase modulation system in combination a low loss circuit having inductance and capacity and being adapted to carry a large amount of oscillatory energy with small dissipation per cycle of said oscillatory energy so as to have a fly-wheel effect, an electron discharge device having a control grid, a cathode, and an anode, a phase shifting reactance connecting said control grid to a point on said circuit, a connection between another point on said circuit and the cathode of said tube, an output circuit connected between the anode and cathode of said tube, means coupling said output circuit to said low loss circuit to feed energy from said output circuit to said low loss circuit, and means for applying modulating potentials to the internal impedance of said tube.

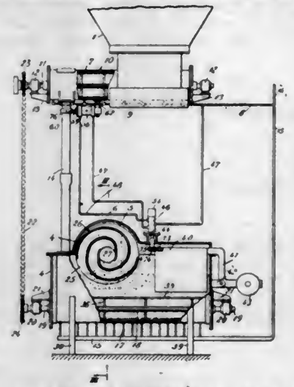
2,159,239

FEEDER FOR PULVERULENT MATERIALS

Mikael Vogel-Jorgensen, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y., a corporation of New Jersey

Application June 21, 1938, Serial No. 214,969
In France June 22, 1937
9 Claims. (Cl. 263—32)

1. In an apparatus for feeding pulverulent material at desired rates, in combination, a reservoir for pulverulent material, means for emulsifying with air material in said reservoir, means moving in a closed path for extracting material from said reservoir, said extracting means being adapted during each complete movement through said path to extract a predetermined volume of material from said reservoir and to deliver said



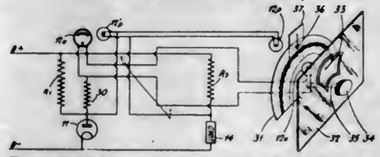
volume outside said reservoir, and means for operating said extracting means at a rate proportional to the desired rate of feed.

2,159,240

TUNING INDICATOR

Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation

Application June 22, 1932, Serial No. 618,605
21 Claims. (Cl. 250—20)



20. In a radio receiver, automatic volume control means, a plurality of light sources, and means under the control of said automatic volume control means for differentially so energizing said sources that as the intensity of illumination from one source is increased, that from the other is diminished.

2,159,241

DISABLING-GAS-PRODUCING CHEMICALS

Duncan B. Williams, Glen Ridge, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application February 28, 1935, Serial No. 8,580
8 Claims. (Cl. 167—47)

1. A disabling-gas-producing chemical comprising a solution of a normally solid, irritant-gas-producing halogenated acetophenone in crotonaldehyde.

2,159,242

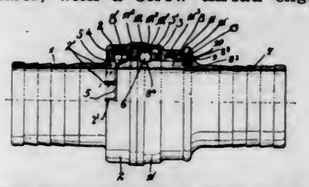
PIPE JOINT

Masaji Yanagi, Kamata-ku, Tokyo, Japan

Application August 23, 1937, Serial No. 160,459
In Japan August 24, 1936
4 Claims. (Cl. 285—168)

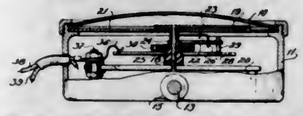
1. A pipe joint comprising a tubular female member, a tubular male member partly surrounded by said tubular female member, means for preventing relative rotation between said two members, a plurality of locking balls held by said

female member with a limited radial movement, a plurality of recesses formed outside said male member for respectively receiving said locking balls, a bushing member partly surrounding said male member, a retaining ring inside said bushing member, with a screw thread engagement



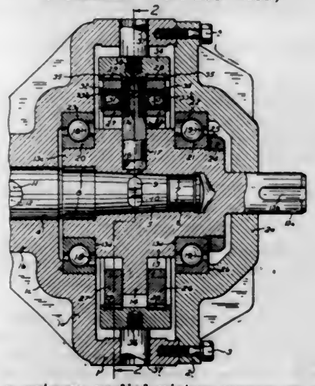
with said bushing member, and having a tapered cam face to co-operate with said locking balls, and means for biasing said bushing member to such an axial direction that said cam face actuates and retains said locking balls in engagement with said recesses.

2,159,243
SWITCH MECHANISM
Kinloch D. Andrews, New York, N. Y., assignor to Gogan Machine Corporation, Cleveland, Ohio, a corporation of Ohio
Original application April 2, 1936, Serial No. 72,377. Divided and this application August 7, 1936, Serial No. 94,761
7 Claims. (Cl. 200—56)



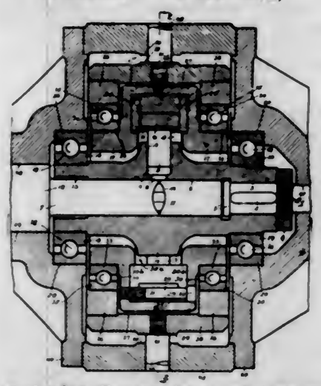
1. A device of the character described comprising a rotatable spindle, a contact arm arcuately movable by the spindle, a second contact arm pivotally mounted for arcuate movement about the axis of the spindle and adapted to be engaged and moved by the first contact arm, one of said contact arms being insulated from the spindle, and a spiral spring disposed around the spindle and acting on the second contact arm to resist movement thereof.

2,159,244
HYDRAULIC PUMP OR MOTOR
Elek K. Benedek, Bucyrus, Ohio
Application August 19, 1935, Serial No. 36,871
7 Claims. (Cl. 103—161)



1. In a rotary, radial piston pump or motor, a rotatable barrel having a radial cylinder, valve means for the cylinder, a piston reciprocable in the cylinder, a head on the piston and having laterally extending T-head portions, said T-head portions having parallel inner and outer tangentially extending reactance engaging surfaces, rotary reactance rings eccentric to the barrel and arranged one at each side of the piston, and having grooves providing tangentially extending parallel ways operatively engaging said inner and outer reactance engaging surfaces respectively to reciprocate the piston, and mounting the said T-head portions and reactance rotor for relative tangential oscillation, said T-head portions having lugs extending beyond the rings axially of the barrel, and means on the lugs engaging the rings for constraining the rings from axial separation.

2,159,245
VARIABLE DISPLACEMENT PUMP OR MOTOR
Elek K. Benedek, Bucyrus, Ohio
Continuation of application Serial No. 607,409, April 25, 1932. This application July 23, 1934, Serial No. 736,550
12 Claims. (Cl. 103—161)



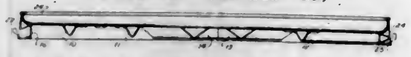
1. In a hydraulic machine of the class described, a casing, a rotatable cylinder barrel and pistons carried thereby, a relatively eccentric rotatable support surrounding the barrel, valve means for the barrel operatively associated with the piston cylinders, crossheads for the pistons rigid with respective pistons, each crosshead having a radially outwardly disposed planar face, a radially complementary guide block for each crosshead carried by said support and circumferentially adjustable therein and abutment means on the support and positioned circumferentially between adjacent guide blocks to be engaged by the guide blocks for limiting the circumferential movement of the guide blocks relative to the support whereby wedge-shaped oil film receiving spaces are formed between the cross heads and guide blocks during successive cycles of operation of the machine.

2,159,246
METHOD OF MAKING TWIST BREAD
David Beyer, Cleveland, Ohio
Application April 20, 1938, Serial No. 203,056
6 Claims. (Cl. 107—54)



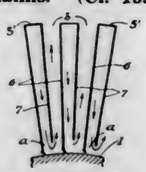
1. A method of preparing dough for making twist loaves of bread comprising the steps of forming a single mass of dough into form for a loaf of bread of the same weight as desired for the twisted loaf, creasing the mass longitudinally without breaking through the skin thereof, and then twisting the resultant portions of the dough mass about each other into a helical formation.

2,159,247
BASE FOR MACHINE TOOLS AND THE LIKE
William B. Boom, Lakewood, Ohio
Application April 2, 1936, Serial No. 72,257
2 Claims. (Cl. 248—19)



2. A base for machine tools and the like formed of welded-up steel plates having a supporting portion adapted to receive a device to be supported thereon, and stiffening means for the supporting portion comprising V-shaped reenforcing members welded to the supporting portion adjacent the edges thereof the construction being such that a transverse section normal to the supporting surface through the reenforcing members has a portion thereof of tubular isosceles triangular cross section.

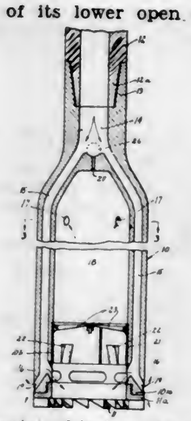
2,159,248
APPARATUS FOR DESICCATING OR DRYING LIQUIDS OR MOIST SUBSTANCES
Jörgen Brabak, Copenhagen, Denmark
Application August 13, 1935, Serial No. 36,037
In Germany August 22, 1934
6 Claims. (Cl. 159—8)



5. An apparatus of the character described, including a traveling support for conveying material in film form, and means constructed and arranged to cause streams of vapor absorbing medium to impinge upon the said film, said means including an assembly of plates shaped to provide alternate supply nozzles and discharge passages, the plate separating each supply nozzle from the corresponding discharge passage being less in length than the plate constituting the wall of the corresponding discharge passage, the last-named plate extending into close proximity to the film on the supporting surface.

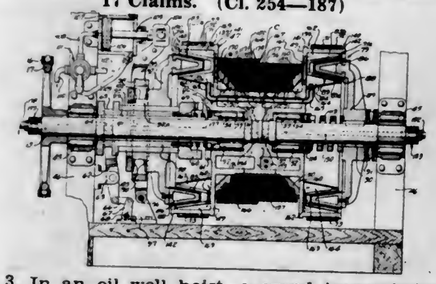
2,159,249
OIL WELL TOOL
John E. Brantly, Pasadena, Calif.
Application November 9, 1937, Serial No. 173,604
14 Claims. (Cl. 255—72)

1. A tool for recovering objects from wells, comprising a hollow body open at its lower end and adapted to be lowered on a pipe, means forming a passage extending longitudinally of the body for directing a flow of fluid from said pipe outwardly through an opening extending through the outside surface of the body above its lower end, and means forming a passage extending through the body from its interior and of sufficient size to permit circulation of fluid upwardly within the body, at a rate such that said outwardly directed fluid is caused to flow from the outside of the body below and toward the axial center of its lower open end, to gather



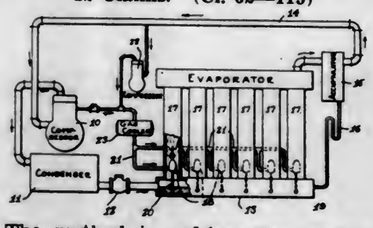
toward said center objects to be recovered from the well.

2,159,250
OIL WELL HOIST
John E. Brantly, Pasadena, Calif.
Application November 10, 1937, Serial No. 173,860
17 Claims. (Cl. 254—187)



3. In an oil well hoist, a speed transmission, a prime mover and a drum shaft connected respectively to the high speed and low speed sides of said transmission, a cable winding drum rotatably mounted on said drum shaft, said drum having brake flanges at opposite ends, braking means applied to said flanges, a positive clutch for holding said shaft and drum against relative rotation, and independently operable means for frictionally clutching said shaft to the drum, the last mentioned means including annular clutch seats within the flanged ends of the drum, and a pair of clutch members splined to said shaft and movable longitudinally thereof into engagement with said seats.

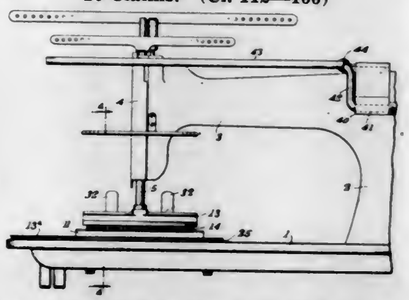
2,159,251
REFRIGERATION METHOD AND APPARATUS
Robert T. Brizzolara, New Dorp, N. Y.
Application November 14, 1936, Serial No. 110,870
12 Claims. (Cl. 62—115)



1. The method in refrigeration which com-

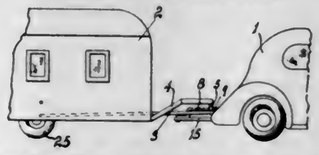
prises spraying liquid refrigerant on to the surface of an evaporator, and utilizing compressed refrigerant vapor to atomize the liquid which is being sprayed.

2,159,252
MULTIPLE NEEDLE SEWING MACHINE
Jacob Brussell, New York, N. Y., assignor to Isadore Friedman, Roselle, N. J.
Substituted for abandoned application Serial No. 29,455, July 2, 1935. This application July 7, 1937, Serial No. 152,401
10 Claims. (Cl. 112—166)



1. In a sewing machine, a needle bar having a needle arm of relatively great width adapted to hold a plurality of needles therein, a presser-foot of corresponding width, said arm and foot having at least one set of cooperating extensions and recesses located laterally of said needle bar, whereby a parallel relationship between said arm and foot is maintained.

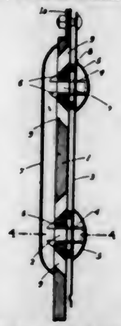
2,159,253
TRAILER HITCH
William E. Bush, Long Beach, Calif.
Application June 21, 1937, Serial No. 149,310
11 Claims. (Cl. 280—33.5)



9. A trailer hitch for coupling a trailer to a towing vehicle, comprising a tow bar, means securing one end of the tow bar to the trailer and means securing the other end of the tow bar to the vehicle, a trailer frame means shiftably mounting the forward end of the frame on the vehicle, a rigid bar projecting rearwardly from the vehicle and a crank rod pivotally mounted in the bar and in the tow bar and means securing the other end of said crank rod to said trailer frame.

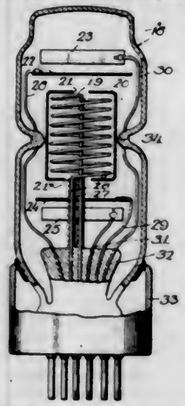
2,159,254
LICENSE PLATE LOCK
Herman C. Christ, Walkermine, Calif.
Application September 12, 1938, Serial No. 229,486
9 Claims. (Cl. 40—125)

1. A holder for a license plate having an opening therethrough, said holder comprising a supporting member having an opening therethrough and adapted to register at one end with the opening in the license plate, means enclosing the other end of the member opening, a shoulder surrounding the enclosed end of said opening, a spring clip adapted for insertion through said registering openings, said clip including a spring leg, a hook on the inserted end of the leg adapted to engage the shoulder, and a head on the other end



of the leg; and means providing for the release of said hook from the shoulder available only upon removal of the portion of the license plate adjacent said registering openings.

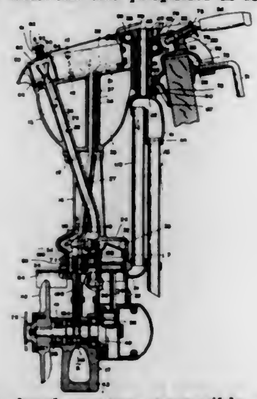
2,159,255
VAPOR ELECTRIC TUBE
Richard U. Clark, Fort Wayne, Ind.
Application April 18, 1938, Serial No. 202,586
3 Claims. (Cl. 250—27.5)



1. A vapor electric tube of the type employing multiple grids and plates and a common electron emitting means, comprising a filament and heat shield encompassing the filament and provided with openings so arranged and located as to bypass and make available the entire electron discharge of the emitting means to one plate at a time, said encompassing heat shield extending closely adjacent the tube wall to thereby prevent leakage of electrons in the space between the shield and tube wall whereby the control ratio of one section is not seriously affected while an adjacent section is operating in an ionized condition.

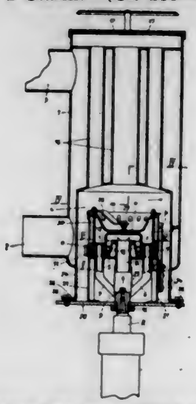
2,159,256
PORTABLE INTERNAL COMBUSTION ENGINE
Douglas R. Clarke, Toronto, Ontario, Canada
Application August 30, 1937, Serial No. 161,652
8 Claims. (Cl. 115—18)

1. In a portable marine engine, the combination with an engine unit including a submersible propeller and means for turning the engine about an up and down axis for steering purposes, of means for attaching the engine unit to a support including a bracket hingedly connected to the engine unit to permit swinging the unit from a position wherein the propeller is submerged to a position wherein the propeller is located above



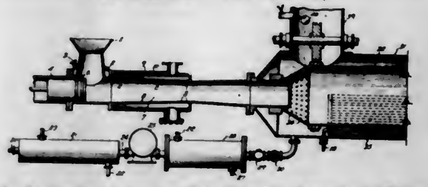
the water level, means accessible in the last named position of the engine unit for cranking said engine and unitary latch means mounted on the bracket and engageable with the engine unit in the tilted position to rigidly hold the engine unit against both turning and swinging movement during cranking of said engine.

2,159,257
APPARATUS FOR CONTROLLING THE TEMPERATURE OF FLUIDS
Caflisch Danuser, Zurich, and Felix Danuser, Kreuzlingen, Switzerland
Application August 21, 1935, Serial No. 37,250
In Switzerland August 29, 1934
1 Claim. (Cl. 158—28)



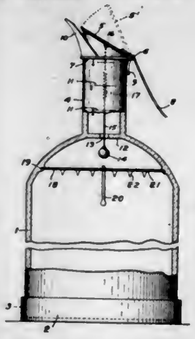
An apparatus for controlling the temperature of water comprising, in combination a water heater that includes an electrically controlled burner, said burner including a nozzle having a tapering passage from its inlet end to adjacent its outlet end with the portion of the passage of greatest diameter at the inlet end; a thermostat located within the sphere of influence of the water; a bi-metallic circuit breaker; an electric circuit including a source of current supply, said bi-metallic circuit breaker, said thermostat and said electrically controlled burner for controlling the action of said burner; a nozzle cleaner for the burner; and means for actuating said nozzle cleaner when the burner is rendered operative; said nozzle cleaner comprising an electro-magnet coil, an armature core, a bushing in which said core is loosely guided, a cleaning needle carried by said core and projecting through the inlet end into said nozzle, said core and said needle being advanced when the coil is energized and being returned by gravity when the coil is de-energized, the diameter of the needle being less than the least internal diameter of said nozzle passage.

2,159,258
METHOD AND APPARATUS FOR DIGESTING FIBROUS OR CELLULAR MATERIAL
Joaquin Julio de la Roza, Sr., Plandome, N. Y.
Application May 28, 1934, Serial No. 727,878
20 Claims. (Cl. 92—7)



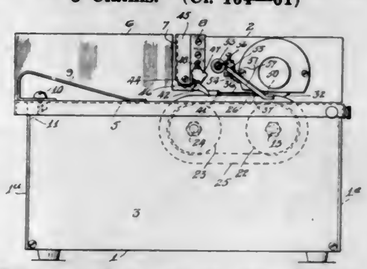
1. A process for continuously digesting fibrous or cellular material in a digestion zone comprising wetting the material with an alkaline liquid, compacting the wetted material in a compression zone so as to displace occluded air and substantially impregnate the material with an alkaline liquid, removing the air from the compression zone, passing the material from the compression zone to a digestion zone and there digesting the material with an acidic cooking liquid.

2,159,259
SUGAR DISPENSER
Norman L. Dootson, San Francisco, Calif., assignor of one-half to Charles W. Bassett, Antioch, Calif.
Application August 13, 1938, Serial No. 224,791
10 Claims. (Cl. 221—62)



1. A granulated sugar dispenser comprising a container for the sugar provided with a discharge neck, a closure at the outer end of the neck, and a flow guard arranged and adapted to restrict the flow of sugar from the container to the neck below its ability to flow from the outer end of the neck when said closure is opened, said neck having a transparent portion to show the amount of sugar flowing into the neck upon inverting the container.

2,159,260
ENVELOPE OPENING MACHINE
Edward J. Dummer and Azel Gay, Rochester, N. Y., assignors to Multipost Company, Rochester, N. Y., a corporation of New York
Original application December 24, 1936, Serial No. 117,486. Divided and this application October 13, 1938, Serial No. 234,833
3 Claims. (Cl. 164—61)

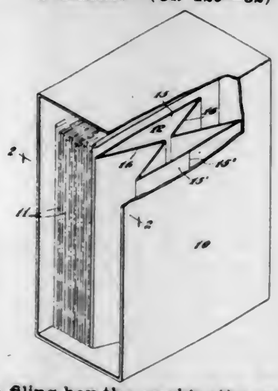


1. In an envelope opening machine, the combination with a bed plate, a knife arranged angularly thereto and means for feeding envelopes along the bed, of an edge guide for the envelopes associated with the knife to direct the edge of an envelope in the cutting plane thereof, said edge guide embodying a V-shaped portion next adjacent to the knife and a ramp portion extending longitudinally of the bed in rear of the V-shaped portion forming an incline on which the body of the envelope rides and is elevated in the direction of feed as it approaches the knife.

2,159,261
METHOD OF REMOVING A PHOSPHATE COATING FROM A SURFACE
Rollie P. Durham, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application November 1, 1937, Serial No. 172,150
10 Claims. (Cl. 148—8)

1. The method of removing a phosphate coating from a surface which comprises, subjecting the coated surface to the action of molten cyanide.

2,159,262
SUPPORT FOR PAMPHLETS
Mary H. Feiss, Brookline, Mass.
Application July 8, 1938, Serial No. 218,145
2 Claims. (Cl. 129—32)

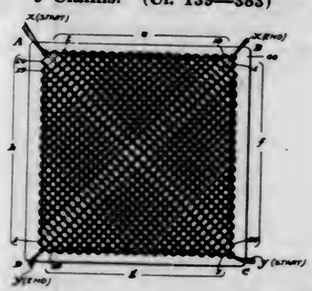


1. In a filing box the combination with a group of pamphlets standing upright in the box, of a support therefor made of a single strip of resilient sheet material symmetrically folded to form a continuous flat bearing surface, a second flat bearing surface composed of the two inwardly folded end flaps of the strip having their free edges approximately adjacent, and two yieldingly expansible bellows respectively connecting pairs of the outer edges of said bearing surfaces, said two bellows being identical but reversely positioned and being adapted yieldingly to press said bearing surfaces apart under uniform and symmetrically distributed pressure, one of which bearing surfaces bears against the last pamphlet in the group and the other of which bears against one wall of the box.

2,159,263
STABILIZATION OF POLYVINYL ACETAL RESINS
Charles R. Fordyce and Martti Salo, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 14, 1937, Serial No. 159,193
8 Claims. (Cl. 260—73)

1. The process of stabilizing polyvinyl acetal resins which comprises subjecting a solution of a compound selected from the group consisting of the resins and the polyvinyl intermediates which are used in their preparation to the action of nitrous acid.

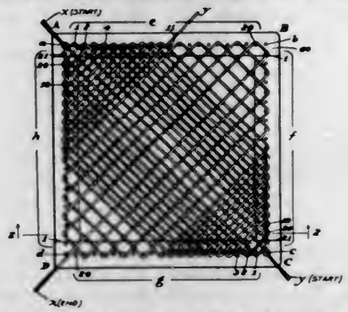
2,159,264
BIAS WOVEN FABRIC
Annie Jean Gash, Pisgah Forest, N. C., assignor to Donar Products Corporation, Medford, Mass., a corporation of Massachusetts
Application August 24, 1937, Serial No. 160,586
9 Claims. (Cl. 139—383)



1. A rectangular bias woven fabric consisting of two continuous strands interwoven with each other, adjoining courses of each strand being disposed at substantially right angles to each other, and every course of both strands except the two courses adjoining the respective ends of each of said strands joining parallel courses of unequal length.

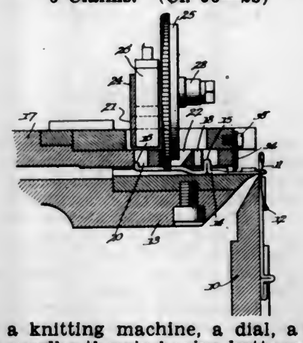
2,159,265
WEAVING AND WEAVING DEVICE
Annie Jean Gash, Pisgah Forest, N. C., assignor to Donar Products Corporation, Medford, Mass., a corporation of Massachusetts
Original application August 24, 1937, Serial No. 160,586. Divided and this application September 28, 1938, Serial No. 232,113
8 Claims. (Cl. 139—34)

1. A method of weaving a rectangular bias woven fabric comprising forming a framework of crossing strand courses by laying a strand from a corner of a series of pins arranged on a supporting device along the perimeter of a rectangle with one set of parallel rows of said series having an equal number of substantially uniformly spaced pins and with the other set of parallel rows each having substantially uniformly spaced pins only one less in number, diagonally across said support to and around the diagonally opposite end pin of the row remote from the starting corner having the greater number of pins, then to and around the adjacent end pin of the row remote from the starting corner having the less number of pins, then back to and around the starting corner next-to-end pin of the other greater row, then to and around the starting corner next-to-end pin of the other less row, then to and around a pin in the first named greater row, skipping one pin away from the one already wound, and continuing winding said strand from a pin in one row to and around a pin in an adjacent row, while forming a loop of approximately 90 degrees around every pin wound and always skipping one pin in each row, until the strand reaches another end pin in one of the greater rows, then winding said strand thereabout and to the corner of said rectangle at the other end from the starting corner of the row having the odd number of pins, and then interweaving a second strand with said framework by laying said second strand from one of the other



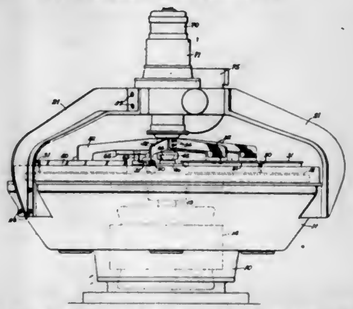
two corners of said rectangle and on one side of said framework to and around the diagonally opposite unoccupied end pin of the row remote from the second starting corner having the greater number of pins, weaving said second strand on the other side of the first laid intervening course of said first strand to and around the adjacent end pin of the row remote from the second starting corner having the less number of pins, then back to and around the second starting corner unoccupied next-to-end pin of the row having the greater number of pins, then weaving said second strand on the said other side of the two intervening previously laid courses of said first strand, and on the said one side of the previously laid intervening course of itself to and around the adjacent second starting corner next to end pin of the less row, then to and around another unoccupied pin in the greater row remote from the second starting corner, skipping one pin away from the pin already wound by the second strand, and continuing alternately thus weaving and winding said second strand from an unoccupied pin in one row to and around an unoccupied pin in an adjacent row while forming a loop of approximately 90 degrees around every pin wound and always skipping one pin in each row until said second strand reaches the last unoccupied end pin of one of the greater rows, then winding said second strand there around and weaving said second strand to the corner of said rectangle at the other end from the second named starting corner of the row having the odd number of pins.

2,159,266
KNITTING MACHINE
William D. Gorman, Philadelphia, Pa., assignor to H. Brinton Co., Philadelphia, Pa., a corporation of Pennsylvania
Application August 24, 1936, Serial No. 97,674
6 Claims. (Cl. 66—25)



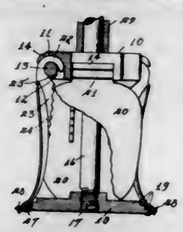
1. In a knitting machine, a dial, a series of knitting needles therein having butts and flexible tails, a stitch cam acting on said butts, needle advancing means acting on said tails, means for flexing said tails selectively out of the path of said advancing means until they have passed the advancing cam edge thereof, and a nullifying cam positioned to engage such tails and to advance the needles to a point where their tails will engage said cam edge when released by said selective flexing means.

2,159,267
WORK FIXTURE
Donald R. Hall, Chicago, Ill., assignor to Gardner Machine Company, South Beloit, Ill., a corporation of Illinois
Continuation of application Serial No. 32,579, July 22, 1935. This application October 29, 1938, Serial No. 237,796
20 Claims. (Cl. 51—122)



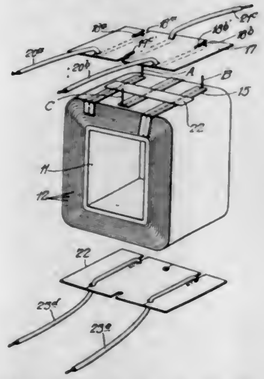
17. A work fixture for a vertical-spindle disk-type grinding machine comprising, in combination, a frame structure located centrally over the disk and having a plurality of legs extending radially over the disk and adapted to be secured to the machine frame beyond the periphery of the disk, means depending from said frame for controlling the rotation concentrically of the disk of work pieces carried on the upper face of the disk, and means for reciprocating the work pieces radially of the disk.

2,159,268
EARTH ANCHOR
Charles E. Handel, Winterset, Iowa
Application August 10, 1936, Serial No. 95,293
2 Claims. (Cl. 189—92)



1. An improved earth anchor comprising a head member having a series of sockets in its under surface, a pivot pin in each socket, a series of wings, each formed with a circular hook portion to enter corresponding sockets and to be pivotally placed and secured on said pivot pins as the wings are moved from a downwardly and inwardly inclined position to a substantially vertical position with the upper surfaces of the hook portions engaging the under surfaces of the sockets, each socket having a circular concaved upper surface inclined downwardly and outwardly from a vertical plane intersecting the longitudinal center of the corresponding pivot pin, whereby the circular surface of the upper end of said hook portion will engage and enter said concaved surfaces to support the upper end of the hook and the wing to which it is connected, against lateral movement, and to relieve the pivot pins of driving strains applied to the upper end of said head.

2,159,269
LEAD LOCATING MEANS AND METHOD OF APPLYING SAME
Joseph W. Hasse, Muskegon, Mich., assignor to Anaconda Wire & Cable Company, New York, N. Y., a corporation of Delaware
Application December 2, 1936, Serial No. 113,769
2 Claims. (Cl. 174—138)



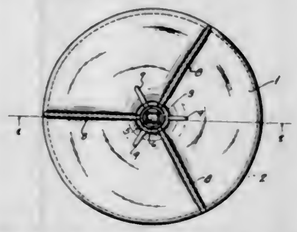
2. A locating card for holding wire terminals of an electric coil, said card having means for holding a plurality of wires and having for each wire a notch at one edge and an opening near the opposite edge in alignment with the notch, but spaced from said opposite edge, the portion of the card between the opening and the adjacent edge being cut but not removed, a plurality of wires, one for each said opening and extending through its respective opening, thence underneath said card and thence upwardly in the corresponding notch at the opposite edge for connection to the terminal of an electric apparatus, said wire being bent reversely downwardly on to the upper face of said card.

2,159,270
DEVICE FOR LAYING CLOTHS ABOUT PRE-PRESSED CAKES IN OIL-PRESSING APPARATUS
Adriaan Nicolaas Honig, Hilversum, Netherlands, assignor to Naamlooze Vennootschap: Oliefabrieken "Het Hart" en "De Zwaan" Voorheen Adriaan Honig, Zaandam, Netherlands, a corporation of the Netherlands
Application January 22, 1936, Serial No. 60,326
In the Netherlands February 1, 1935
5 Claims. (Cl. 93—2)



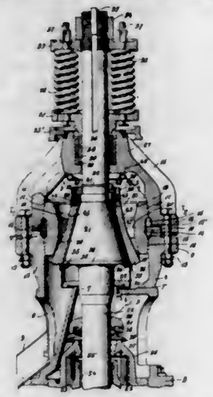
1. A device for laying cloths about cakes that have been subjected to a preliminary pressing action comprising means for conveying a plate having a cloth thereon and a preliminarily pressed cake resting on said cloth to a station, means located at said station for folding an end of said cloth over said cake, and means for conveying said plate, cloth and cake from said station so that said plate may be separated from said cloth and cake so that said cloth and cake may be subjected to further pressing action.

2,159,271
WASHING MACHINE AGITATOR
Rudolph W. Janda, Berwyn, Ill., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application December 18, 1937, Serial No. 180,515
2 Claims. (Cl. 68—134)



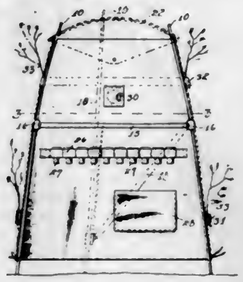
1. A washing machine agitator comprising a unitary structure having a substantially conical base portion of relatively low altitude and a tubular stem rising centrally therefrom to a height above the normal water level of the agitator, a set of main blades extending radially from the stem, the outer margins of said blades rising substantially vertically from the periphery of said base portion for a distance not more than one-half the effective height of the agitator, then sloping inwardly to meet the stem near its upper end, a set of auxiliary blades projecting radially from the stem, lying in vertical planes displaced angularly from the planes of the main blades, the effective surfaces of said auxiliary blades being confined to the upper half of the effective height of the agitator, said auxiliary blades being of maximum radial extent at the normal water level and tapering thereabove to the upper extremity of said stem.

2,159,272
MEANS FOR REDUCING MATERIAL
Joseph E. Kennedy, New York, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa., a corporation of the United States
Application September 7, 1935, Serial No. 39,540
2 Claims. (Cl. 83—10)



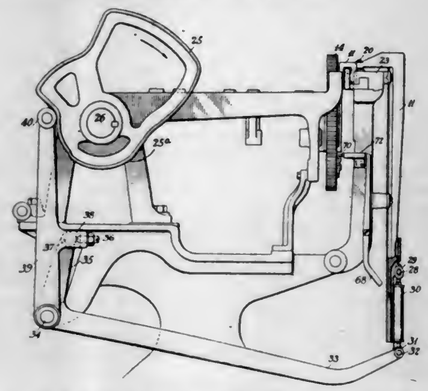
1. In a gyratory crusher, a frame comprising a pair of vertically separable members, each member having an annular connecting wall portion arranged with a laterally extending reinforcing flange to provide a sliding joint connection between said annular wall portions of the frame members with the joint portion of the lower frame member arranged within and reinforced by the flange of the upper frame member, the annular wall portion of each frame member having an inner face portion spaced inwardly from the end of the annular portion and said face portions in the assembled position of the frame members being spaced from each other and diverging in a direction from the axis of the frame members and said face of the annular wall portion of the lower frame member being arranged in opposed relation to the flange thereof, an annular crushing member the opposite end portions of the outer face of which diverge from intermediate the ends in a direction to the opposite ends and axis of said member at substantially the same angle as and adapted to engage and to be supported by the diverging faces of the annular wall portions of the frame members and having an annularly channeled reduced portion between said diverging faces, means engaging the flanges of the frame members to draw the frame members together and the diverging faces of the annular wall portions of the frame members to the diverging outer faces of and secure the annular crushing member in the frame members with the annular member intersecting the connection of the frame members whereby the crushing forces applied to the annular crushing member are adapted to be taken up through the reinforced flange of the annular portion of the lower frame member and connection of the frame members, and a crushing head supported by the frame members to have gyratory movement within the crushing member.

2,159,273
HUNTER'S BLIND
George Killinger, Burlington, Iowa, assignor of one-half to Walter L. Harvey, Marshalltown, Iowa
Application March 23, 1938, Serial No. 197,683
6 Claims. (Cl. 135—1)



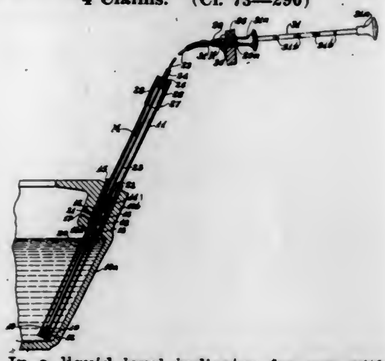
1. A structure of the class described, comprising four upright rods, a lever brace pivoted to each upright rod near the central portion of the rod and extended to an adjacent upright rod and pivotally and slidingly mounted thereon, and a flexible cover surrounding the upright rods and the lever braces and being of a size to limit the outward movement of the ends of the upright rods when the lever braces are substantially horizontal.

2,159,274
SLUG-CASTING MACHINE
George P. Kingsbury, Hollis, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application February 2, 1938, Serial No. 188,223
20 Claims. (Cl. 199—49)



1. In a slug casting machine, the combination of a vertically movable transporter for presenting a composed line of character bearing matrices before the face of a slotted mold, means for arresting the descent of the transporter at one or another of different casting levels, means for thereafter subjecting the transporter to pressure to effect the alignment of the characters on the matrices with the mold slot, and means for maintaining the pressure to which the transporter is subjected at substantially the same value irrespective of the level at which the descent of the transporter is arrested.

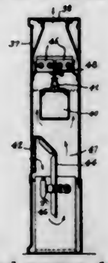
2,159,275
LIQUID LEVEL INDICATOR
Le Baron W. Kinney, Jr., Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a corporation of Ohio
Application August 24, 1935, Serial No. 37,746
4 Claims. (Cl. 73—290)



1. In a liquid level indicator for use with an engine crankcase having a boss fashioned with angularly related bores each open at both ends and in communication with each other, a hollow structure occupying one of said bores and comprising; an open lower end for positioning adjacent to the bottom of said crankcase, said structure having an opening in its side adjacent to its lower end, a partition located above the intended upper limit of liquid level in the crankcase and formed with an aperture of less size than the passage in said structure, there being a lateral opening located above said partition through which and through the partition aperture said crankcase may alternatively communicate, and a closure for the upper end of said structure; a piston mounted in said structure and adapted for movement between a point below the lower side opening of said structure and said partition, a rod operatively connected with said piston and extending upwardly therefrom, said rod having a length such that when said piston is at the lower end of its movement the upper end of the rod is spaced a short distance below said partition, and said rod being so constructed that it loosely closes the aperture in said partition when moved upward with said piston, and means for reciprocating said piston comprising; a part of smaller cross section than and operatively connected to said rod and adapted to extend through the aperture in said partition when said piston is at the lower end of its stroke whereby to then permit venting therearound through said lateral opening and through the other one of said bores, a slidably mounted operating plunger marked with measuring indicia, and a connection between said part and plunger and extending through said closure.

2,159,276
AIR CONDITIONING SYSTEM
Albert J. Lawless, Dedham, Mass., assignor, by mesne assignments, to B. F. Sturtevant Company, Hyde Park, Boston, Mass., a corporation of Massachusetts
Application June 16, 1937, Serial No. 148,536
7 Claims. (Cl. 98—39)

1. An air conditioning unit comprising a relatively tall and relatively narrow upright casing, a recirculated air grille in the lower portion of one side of said casing, an air discharge grille in the upper portion of said casing, a partition in said casing extending from said one side above said recirculated air grille to a point below said grille for causing the recirculated air to flow in said casing, first in a downward and then in an



upward path, and means for spraying water in the space between said partition and said one side for humidifying the recirculated air during its downward movement.

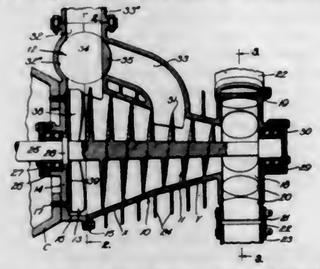
2,159,277
METHOD OF AND APPARATUS FOR DETERMINING PUPILLARY DISTANCE
Orval W. Lee, Spokane, Wash.
Application September 28, 1934, Serial No. 745,877
22 Claims. (Cl. 88—20)



1. The method of determining the distance between the intersection of the visual axis of one eye with a predetermined plane and the intersection of the visual axis of the other eye with the same plane, when the fixation point is the same for both eyes; which comprises placing a suitable light at said fixation point, whereby a reflected image of said light is formed on the cornea of each eye aforesaid and each of said images is intersected by the vertical plane of the visual axis of that eye when observed from a vertical extension of said fixation point, then employing each of said reflected images and said fixation point as indices locating the visual axis of each of said eyes respectively, and measuring in any suitable manner the distance from the intersection of said visual axis of one eye with said predetermined plane, to the intersection of the visual axis of the other eye with said same plane.

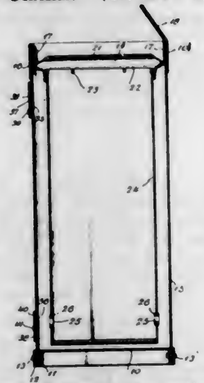
2,159,278
SUPERCHARGER
Oliver R. Lesley, Los Angeles, Calif.
Application August 27, 1937, Serial No. 161,262
9 Claims. (Cl. 230—120)

1. A device of the character described including a body having a frusto-conical compression chamber, an inlet at the large end of the compression chamber, and a pressure equalizing chamber communicating with the small end of the compression chamber and of larger diameter than said small end of the compression chamber whereby a Venturi-tube action is produced upon



movement of fluid from the compression chamber into the pressure equalizing chamber, there being outlets communicating with the said pressure equalizing chamber, and a frusto-conical helical impeller rotatable in the frusto-conical chamber to compress fluid therein and force it into the said pressure equalizing chamber.

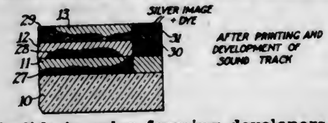
2,159,279
CONTAINER FOR BAKERY PRODUCTS
Louis Meyers Lipowsky and Irving Bach, Brooklyn, N. Y.
Application October 26, 1936, Serial No. 107,510
2 Claims. (Cl. 150—1)



2. In combination with an outer bag and an inner bag situated within said outer bag and adapted to carry foodstuffs and the like, said outer bag having an opening formed therein for the insertion into and removal of foodstuffs from said inner bag, an annular flap attached to said outer bag and situated within the interior thereof, and means carried by said inner bag and said flap for suspending said inner bag from said flap.

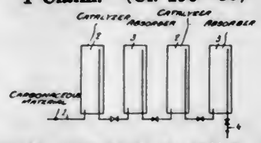
2,159,280
SOUND IMAGE ON MULTILAYER FILM
Leopold D. Mannes, Rochester, N. Y., and Leopold Godowsky, Jr., Westport, Conn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 18, 1937, Serial No. 164,543
In Great Britain December 31, 1936
3 Claims. (Cl. 95—2)

1. The process of forming picture and sound images in a photographic film having a plurality of layers each sensitive to a different spectral range, which comprises exposing the picture area of the film to a subject and completely exposing at least the lowermost of the lower layers of the sound track area, developing the film in a black and white developer and removing the metallic silver thus formed, redeveloping the remaining



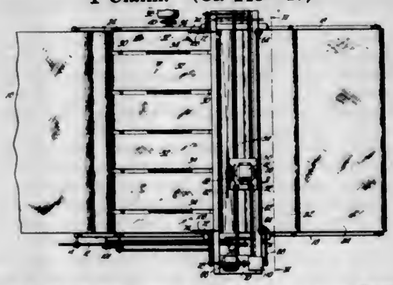
silver halide in color-forming developers to form differently colored dye and silver images in each layer, converting the silver to silver halide in non-actinic light to prevent fogging of the picture area, printing and developing to metallic silver a sound image in the sound track area of at least the uppermost layer, and removing the residual silver halide from the film.

2,159,281
METHOD AND PLANT FOR THE HYDROGENATION OF CARBONACEOUS SUBSTANCES CONTAINING SULPHUR
Paul Marécaux, Nancy, France
Application May 26, 1936, Serial No. 81,972
In France May 31, 1935
1 Claim. (Cl. 196—53)



A method for the hydrogenation of carbonaceous material containing sulphur which consists in effecting said hydrogenation with hydrogen containing gases in the presence of a hydrogenating catalyst adapted to transform carbonaceous compounds into carbonaceous products having a lower boiling point, and subjecting the mixture of hydrogen containing gases and carbonaceous material during said hydrogenation to the action of an absorbing substance adapted to absorb hydrogen sulphide, so as to maintain constantly the hydrogen sulphide content of said mixture between 0.1% and 1%.

2,159,282
BAT-FORMING TABLE
Louis Marino, Kansas City, Mo.
Application February 28, 1938, Serial No. 193,220
1 Claim. (Cl. 143—47)



In a table for forming bats from an advancing continuous strip of rock wool, a plurality of slitting saws for longitudinally cutting the strip into

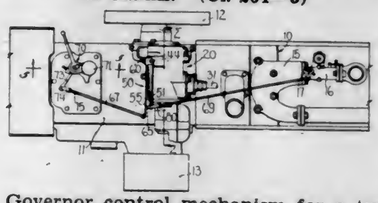
a plurality of ribbons; conveyor belts for the ribbons between said saws; a reciprocable cross saw for transversely severing the ribbons after the same have moved from between the slitting saws; means for advancing the cross saw at the same rate of travel as the rate of travel of said ribbons as the saw severs the ribbons; and a motor to reciprocate the cross saw, said advancing means comprising a frame to support the motor, a pair of pins on the frame, an endless chain having a portion thereof between the pins and a laterally extending contact finger extending to each side of the chain and carried thereby, said pins having electrical connection with said motor and a source of current, said finger serving to close the space between said pins as the chain moves the finger along one stretch of the endless chain whereby the frame and motor are moved by the chain as current is supplied to the motor.

2,159,283

GOVERNOR CONTROL MECHANISM

Elmer McCormick, Waterloo, Iowa, assignor to John Deere Tractor Company, Waterloo, Iowa, a corporation of Iowa

Application August 22, 1935, Serial No. 37,281
11 Claims. (Cl. 264—3)



1. Governor control mechanism for a tractor or the like having a speed responsive governor and a carburetor, said mechanism comprising a throttle rod connected with the carburetor, a governor actuated arm mounted for pivotal movement on the tractor and connected at its outer end with the throttle rod, a leaf spring anchored at its inner end to said governor actuated arm adjacent the pivot axis of the latter, a stop carried by the outer end of said arm and engageable with the leaf spring to limit the relative movement between the arm and spring in a direction to determine the open position of the throttle valve, and a manually set lever connected with the outer end of said leaf spring member to govern the bias imposed on said governor arm by said spring when said arm is moved to close said throttle valve.

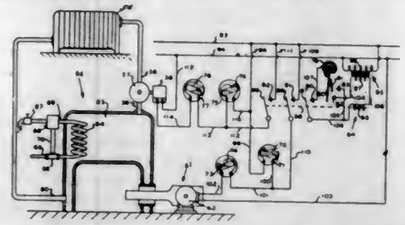
2,159,284

DOMESTIC HEATING AND HOT WATER SUPPLY SYSTEM

Wayland R. Miller, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 4, 1933, Serial No. 700,787
14 Claims. (Cl. 237—19)

11. In a combined space heating and domestic hot water heating system including a heating fluid containing space, means for heating the fluid in said heating fluid space, hot water heating means in continual heat exchange relationship with the heated heating fluid for supplying at all times hot water for domestic purposes, means for conducting the heating fluid from the heating fluid space to the space to be heated for heating the same, the combination of means for controlling circulation of the heating fluid through said conducting means, means subject to the temperature of the space to be heated for operating said heating means to cause heating of the heating fluid and also for actuating said controlling means to cause delivery of heating fluid to said space to be heated when the temperature therein is below a predetermined value, means subject to a condition in said heating fluid containing space affected by heating of the heating fluid for preventing actuation of said controlling means when said condition is below a predetermined value, and means subject to said condition for operating the heating means when the condition is below a predetermined value.



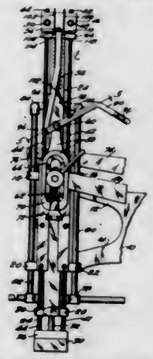
14. In a hot water heating system having a boiler, a heat exchanger and connections between the boiler and heat exchanger, the combination of a combustion device for the boiler, a circulator for circulating hot water through the connections, a room thermostat arranged to start and stop operation of the combustion device and circulator simultaneously, and control means responsive to boiler water temperature to start and stop operation of the combustion device independently of said room thermostat and circulator, to start and stop operation of the circulator independently of said room thermostat and combustion device and to start and stop operation of the circulator independently of the combustion device when the room thermostat is causing operation of the combustion device.

2,159,285

FORM SEPARATOR MECHANISM

Robert Minkow, New York, N. Y., assignor to Hobbs Sales & Service Station, Inc., New York, N. Y., a corporation of New York

Application September 4, 1937, Serial No. 162,557
2 Claims. (Cl. 93—54.2)



1. A form separator for a pair of relatively movable upper and lower form blocks of a box machine of that type including a vertically shiftable supporting structure for the lower block having a cross head and a slide structure carrying the upper block in suspended relation with respect to the lower block, said form separator comprising an elevating fork arranged centrally of and disposed in transverse relation with respect to the lower face of the cross head and the upper end of the slide structure, said fork consisting of a head and a pair of tines, a pair of spaced upstanding parallel confining rods carried by each tine and arranged at opposite sides of the cross head, an upstanding link merging at its upper end into the head of the fork, the latter being disposed at right angles to said head, and an operating lever pivotally connected eccentrically thereof with said slide structure to form a short and a long arm, the outer end of said short arm being pivotally connected to the lower end of the link.

2,159,286

REDUCTION FURNACE

William E. Moore, Pittsburgh, Pa., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa.

Application September 25, 1935, Serial No. 42,121
8 Claims. (Cl. 13—1)



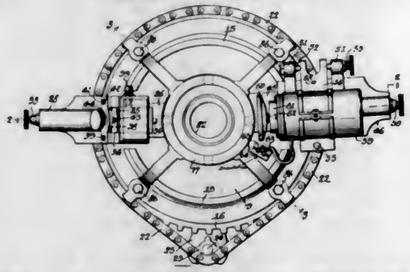
1. In an electric furnace having a roof and electrodes extending through said roof, a supplementary roof spaced above said furnace roof and forming a plenum chamber out of communication with said furnace, and means to fill said chamber with a plenum gas.

2,159,287

DEVICE FOR SHOULDERING WELL DRILL PIPES

Frank Morgan, Healdton, Okla.

Application July 28, 1937, Serial No. 156,247
7 Claims. (Cl. 51—241)



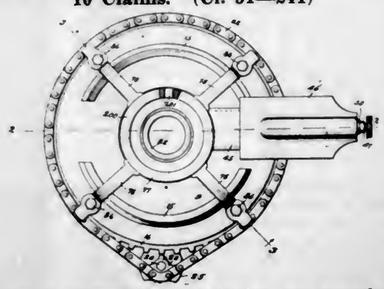
5. In a device for dressing an external transverse shoulder on a member, an annular body having work holding means, the body having an external circumferential groove, a rotatable tool carrier journaled on the body and having a rim extended about the body, an annular driving member extended into the groove, to hold the carrier on the body for rotation, detachable means for holding the driving member on one end of the rim, a wear ring in the groove, between the driving member and the base of the groove, means carried by the driving member for adjusting the ring toward the base of the groove, to take up wear, and shoulder forming means supported by the tool carrier.

2,159,288

WORK CENTERING AND HOLDING MACHINE

Frank Morgan, Healdton, Okla.

Original application July 28, 1937, Serial No. 156,247. Divided and this application July 18, 1938, Serial No. 219,901
10 Claims. (Cl. 51—241)



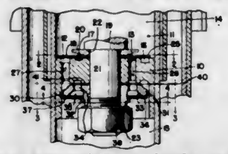
8. In a pipe-centering device, an annular jig support, pipe-gripping means under the control of an operator and mounted for movement on the jig support, toward and away from the axis of the jig support, a rotatable jig carrier mounted to turn on the jig support, a jig having means for receiving a turning device, whereby the jig may be rotated, the jig having a threaded portion for engagement with the thread of a pipe, and means for securing the jig detachably to the carrier.

2,159,289

VALVE CONSTRUCTION

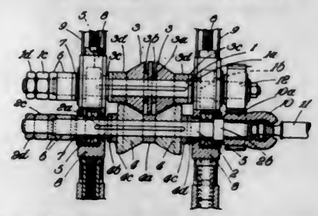
John M. Nickelsen, Ann Arbor, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan

Application March 15, 1937, Serial No. 131,065
1 Claim. (Cl. 277—61)



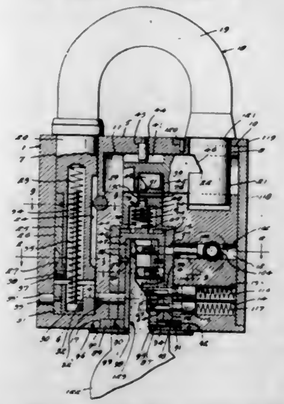
In a valve assembly, a body member having passages therethrough for fluid, means for controlling the flow of fluid through one of the passages in one direction including a resilient disc having the peripheral portion overlying said passage and capable of flexing movement in a direction away from the body member, means securing the central portion of the disc to the body member under a predetermined pressure, a second valve body member adjacent the member aforesaid and having a port therethrough registering with another of the ports in the first mentioned member, means controlling the flow of fluid through the registering ports in the opposite direction including a resilient disc having the peripheral portion overlying the registering ports and capable of flexing movement in a direction away from the body members, means securing the second named resilient disc to the second mentioned body member under a predetermined pressure, and a spacer disposed between the two body members providing a permanent bleed opening around the second mentioned resilient disc.

2,159,290
ROLLERS FOR USE IN PRODUCING PROFILED SECTIONS FROM SHEET METAL
Emil Penkala, London, England, assignor to Metal Trim Limited, London, England, a British company
Application June 19, 1937, Serial No. 149,219
In Great Britain January 26, 1937
3 Claims. (Cl. 153—28)



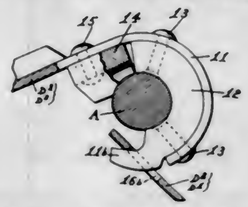
1. A profile roller assembly and mounting comprising a roller spindle having a longitudinal key, a roll structure comprising a plurality of axially removable and interchangeable profiling segments slidable onto the spindle, spaced bearings each movable axially of the spindle, distance pieces adjacent the bearings and slidable axially of the spindle, and clamping means adjacent the spindle ends to draw said segments and bearings and distance pieces together as a unit on the spindle, and adjustable spaced upright pedestals supporting said bearings.

2,159,291
PERMUTATION PADLOCK
Manuel Quintal, Honolulu, Territory of Hawaii, assignor of one-third to Edmund Tong and one-third to Sam Den Ho, Honolulu, Territory of Hawaii
Application January 12, 1939, Serial No. 250,647
16 Claims. (Cl. 70—21)



1. A permutation padlock, comprising a body portion, a shackle having a shank secured in the body portion and adapted for rotary movement and limited longitudinal movement therein, said shackle also including a terminal portion adapted for extension into a receiving bore in the body, a bolt shiftably mounted in the body and adapted for locking engagement with said terminal portion, a tumbler carrying cylinder rotatably mounted in the body and having a key receiving slot, means connected with said bolt whereby the latter may be actuated upon rotation of the cylinder when said tumblers have been shifted to a predetermined position by a key, and a spring controlled retractible locking pin for normally securing said cylinder against rotation and exposed in said key slot to be released by a key before the tumblers of the cylinder are actuated by the key.

2,159,292
DUMP BOTTOM CAR
Hugh W. Sanford, Knoxville, Tenn.
Application March 6, 1937, Serial No. 129,505
3 Claims. (Cl. 105—253)



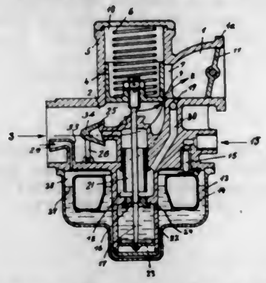
3. In a bottom dump structure having a discharge opening, doors to close said opening and a pivot member spanning one of the doors adjacent said opening; one of said doors being detachably engageable with the companion door and having an arcuate portion disposed concentric with the pivot member, filler means within and secured to said arcuate portion engaging the member to an extent substantially greater than 180° to retain the door on said pivot member, the filler means including an integral distal terminal extending beyond and in the general direction of projection of the arcuate portion and spaced outwardly from the pivot member to provide a void between the distal terminal and the adjacent portion of the pivot member and enable the detachably engaged part of the companion door to move the maximum distance toward said pivot member.

2,159,293
DOLL
Edward G. Schaeffer, Brooklyn, N. Y., assignor to American Character Doll Co., Inc., New York, N. Y., a corporation of New York
Application July 24, 1936, Serial No. 92,333
9 Claims. (Cl. 46—169)



1. A sleeping doll including, a doll head having a facial portion and an eye opening in said facial portion, mounting means positioned above said eye opening, and providing a single point of suspension and an integrally assembled eyeball unit fixedly suspended from said mounting means, said unit including a pair of eyeballs, means pivotally mounting said eyeballs, and mechanism forming a part of said unit for closing said eyes by stages when the doll is rocked.

2,159,294
CARBURETOR
Emil Schimanek, Muegyetem, Budapest, Hungary
Application February 2, 1935, Serial No. 4,611
In France February 5, 1934
1 Claim. (Cl. 261—54)



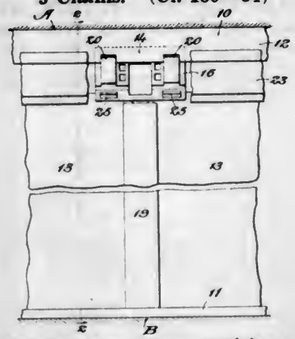
In a carburetor for mixing fuel and air in two stages, a main air inlet, a fuel chamber, a fuel inlet for said fuel chamber, a first stage mixing chamber, a passage leading from said fuel chamber to said first stage mixing chamber, a second stage mixing chamber in communication with the first stage chamber, an automatically operated valve for maintaining constant the partial vacuum in said second stage mixing chamber, a passage leading from said main air inlet to said first stage mixing chamber for supplying air to said first stage mixing chamber, the entrance to said passage being arranged in a direction opposite to the air current in the main air inlet, a conically shaped member in front of said entrance with its apex directed towards said air current so that the dynamic pressure of said air current in the main air inlet causes a suction effect on said entrance and means for adjusting said conical member relatively to said entrance in order to vary the partial vacuum in said first stage mixing chamber caused by said suction effect.

2,159,295
TOOTH BRUSH
Charles Henry Seifert, Hempstead, N. Y.
Application October 14, 1937, Serial No. 169,065
2 Claims. (Cl. 15—244)



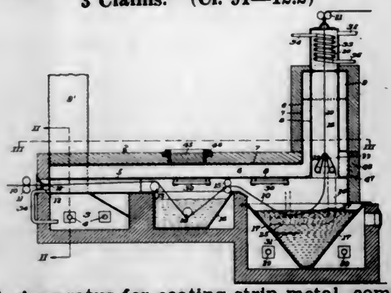
1. A holder for a sponge rubber or similar cleaning element, comprising two elongated handle members connected at their rear ends for relative opening and closing movements, one member being provided with a longitudinal forwardly projecting finger upon which to empale the cleaning element when the two members are relatively opened, said one member being provided at the rear end of said finger with a shoulder to limit the relative empaling movements of the finger and cleaning element, the front portion of the other member being provided with a longitudinal surface against which the empaled cleaning element comes to rest when the closing movements of the two members are complete, the front extremity of said other member being provided with a fixed lug which abuts the front end of the empaled cleaning element when said closing movements of the two members are complete, and releasable means spaced rearwardly from said finger for holding the two members in closed position.

2,159,296
TOP MEMBER FOR SELF-CONTAINED WALL STRUCTURES
George G. Sharp, Wyoming, Millburn Township, Essex County, N. J.
Application May 14, 1937, Serial No. 142,695
5 Claims. (Cl. 189—34)



1. A partition assembly, comprising aligned top and bottom channel members, a pair of adjacent panels disposed between said top and bottom members with their vertical edges in edge to edge relationship, the lower edge portions of said panels being received in the channel of the bottom member and the upper edge portions of said panels being spaced from the top member, and a channeled bridge element adjustable longitudinally along the channel of the top member and along the upper edges of the panel pair and overlapping the adjacent vertical edges of the panel pair, said bridge element being slidable upwardly in said channel of the top member to a position wherein it will clear the upper edge portions of the panel pair and then downwardly to a position wherein its own channel will receive said upper edge portions, and assist to maintain the panels correctly positioned between said top and bottom members.

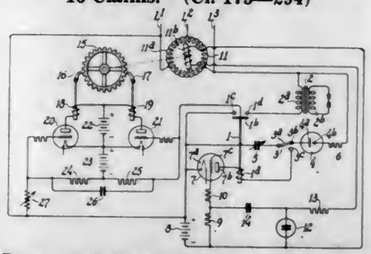
2,159,297
APPARATUS FOR COATING METAL
Barton R. Shover, Pittsburgh, Pa., assignor to Strip Tin Plate Company, Pittsburgh, Pa., a corporation of Delaware
Application June 26, 1932, Serial No. 624,753
3 Claims. (Cl. 91—12.2)



2. Apparatus for coating strip metal, comprising a chamber sealed from the atmosphere, means for conveying the strip through the chamber, means for heating the strip while passing through the chamber, a container for a bath of molten coating metal in the chamber, a pump in the container for supplying a stream of molten coating metal to the strip outside the bath and returning it to the container, a baffle in the coating metal in the container below the pump inlet

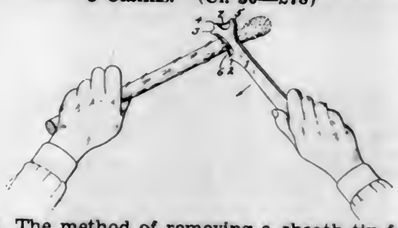
for decreasing agitation of the bottom of the bath by the pump, and means for supplying protective gas to the chamber to prevent oxidation of the strip and coating metal.

2,159,298
CONTROLLER FOR CIRCUIT INTERRUPTERS
Carroll Stansbury, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 9, 1936, Serial No. 104,749
16 Claims. (Cl. 175—294)



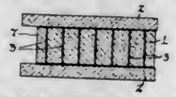
1. In a controller for an alternating current circuit, the combination with a power-operated switch controlling the continuity of said circuit, of means to effect cyclic closing and opening of said switch, and means to effect opening of said switch by said first mentioned means in a substantially constant time-phase relation to the time-phase of the controlled circuit, said last mentioned means including means operable as a function of arcing between the switch contacts.

2,159,299
TRIMMER FOR ASPARAGUS STALKS
Martin Tanzmann, New York, N. Y.
Application June 26, 1937, Serial No. 150,508
3 Claims. (Cl. 30—278)



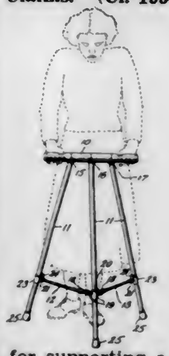
1. The method of removing a sheath tip from an asparagus stalk, consisting in severing the tip by a downward cut on a line conforming substantially to the inner transverse curvature of the tip and extending beneath it substantially from one to the other of its points of junction with the stalk.

2,159,300
INSULATING STRUCTURAL BOARD
Armen H. Tashjian, Cleveland, Ohio, assignor, by mesne assignments, to William B. Miller, Lakewood, Ohio
Application March 12, 1937, Serial No. 130,495
10 Claims. (Cl. 20—91)



1. In a laminated structure of the character described, the combination of a middle lamina composed of aggregated insulating material without requisite load-carrying capacity, a pair of enclosing laminae possessing the requisite resistance to compression and tension stresses, and means for reinforcing said middle lamina to provide a series of crossing attachments acting as a multi-rivet connection whereby to realize an increased resistance against shear stress to which said middle lamina is expectably to be subjected, said three laminae and reinforcing means being suitably severable and penetrable for appropriate sizing and attachment respectively.

2,159,301
CRUTCH OR SUPPORTING DEVICE
Clifford D. Upton, Covington, Ohio
Application December 11, 1937, Serial No. 179,345
2 Claims. (Cl. 155—22)



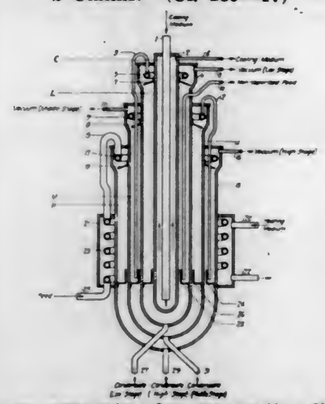
1. A crutch for supporting a person in walking comprising a horizontal handle-bar, rods rigid with said handle-bar and extending downwardly therefrom forming front and rear legs which diverge downwardly having their lower ends arranged to bear on the floor at points widely spaced apart in both lateral and fore and aft directions so that the crutch will stand stably on the floor, and brace rods connecting said front and rear legs below the handle-bar, the space between the lower portions of said rear legs being left unobstructed to allow the feet of the user to move freely between the rear legs of the crutch, said legs having releasable connections with the handle bar and said braces which adapt said members to be shifted into a compact side by side relation.

2,159,302
DECORATIVE COVERING FOR FLOWERPOTS
Karl Rab and Karl Walter, Vienna, Germany
Application June 3, 1938, Serial No. 211,660
In Austria July 10, 1937
2 Claims. (Cl. 41—10)



1. A decorative rubber covering for flower pots consisting of a cylindrical envelope crimped as to its end portions with the formation of corrugations, the open ends of said corrugations being sealed so as to form a closed annular stiffening flange at both ends of said envelope.

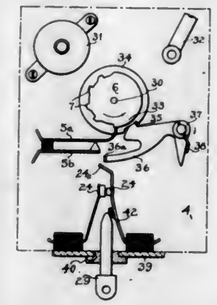
2,159,303
MULTISTAGE EVAPORATOR
Hein Israel Waterman and Cornelus van Vlodrop, Delft, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application February 26, 1937, Serial No. 127,872
In the Netherlands March 5, 1936
2 Claims. (Cl. 159—17)



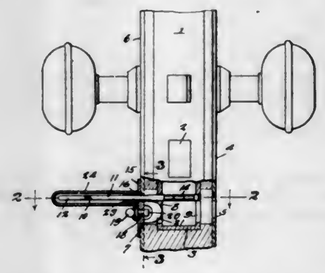
2. In an apparatus for evaporating liquids, a plurality of annular pressure-tight concentric chambers formed by and divided from each other by a plurality of substantially vertical partitions, means for externally supplying heat to the outermost partition and withdrawing heat from the innermost partition, means for maintaining a step-wise pressure gradient in said series of chambers, the pressure being the highest in the outermost chamber and lowest in the innermost chamber, conduit means in communication with the upper portion of the outermost chamber for introducing the liquid to be evaporated into said chamber, annular flow-directing means cooperating therewith for causing the liquid to flow uniformly downwards as a film over the inside face of the outer partition of said chamber, whereby said liquid is vaporized, a collector for the liquid flowing down said wall, a conduit in communication with said collector for conveying the collected liquid to the next inner chamber, flow directing means, collectors and conduits arranged as above in each of the inner chambers to cause the liquid to flow uniformly downwards as a film over the inside face of each intermediate partition separating two adjacent chambers, the outside face of each partition being directly exposed to the inside face of the adjacent partition, whereby said intermediate partitions are cooled to form a condensing surface for the vapors in contact therewith, the conduit in communication with the collector of the innermost chamber being adapted to withdraw the liquid collecting therein from the system, and exhaust means in communication with the lower portion of each chamber to withdraw the condensation products formed therein from the system.

2,159,304
ALARM DISPATCHING DEVICE AND SYSTEM
John H. Wheelock, Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Application July 5, 1935, Serial No. 29,862
5 Claims. (Cl. 177—361)

1. In an alarm signal system, the combination with a code dispatching station, pre-signals and associated circuits energizable upon actuation of said station to send one or more complete code sequences, general alarm signals and associated circuits and means at said station to cause said general alarm signals and circuits to be energized in unison with said pre-signals and circuits, of additional means at said station, operable upon initial actuation of the station in advance of any operation of said general alarm signal energizing means, to prevent the operation of said general alarm signals until said pre-signals have sent one or more complete code sequences.

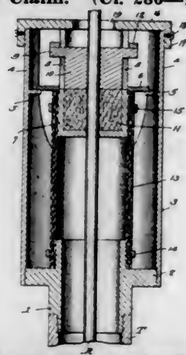


2,159,305
KEYHOLE COVER
Raymond T. White, Philadelphia, Pa.
Application September 28, 1938, Serial No. 232,171
1 Claim. (Cl. 70—430)



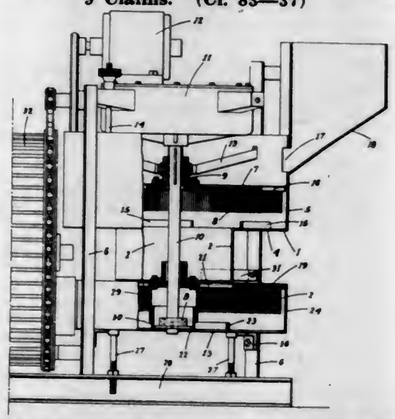
A device of the class described, comprising a main member so shaped as to be placed against the inside surface of a closure, a keeper disposed outwardly of the main member and of elongated shape to pass outwardly through the lower part of the inside key-hole of a closure, means for operating the keeper from the inside of the closure, to dispose the keeper transversely of the inner keyhole, thereby to hold the main member on the closure, a retainer so shaped as to cooperate with the head of an inside key and prevent the key from being turned, means accessible from the inside of the main member for holding the retainer releasably on the main member, and a fin carried by the main member and shaped to fit in the lower portion of the inner key hole, the fin extending outwardly of the keeper, to serve as a guard therefor, to prevent the keeper from being turned from the outside of door, thereby to release the retainer and make the key accessible for turning from without the door.

2,159,306
STUFFING BOX
Jacob Everett Winters, Huntington Beach, Calif., assignor of thirty per cent to M. R. Williams, Los Angeles, Calif., and thirty per cent to C. E. Burkhard, Huntington Beach, Calif.
Application February 18, 1938, Serial No. 191,293
1 Claim. (Cl. 286—15)



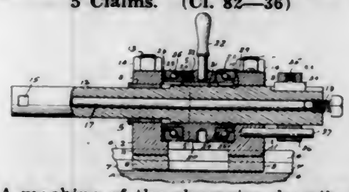
A stuffing box including a bushing for attachment to a well tubing or the like, an annular flange thereon, a housing secured to and extending upwardly from the flange, a top plate detachably secured to the housing, a packing gland means for supporting the gland within and from the housing, said gland and the upper end of the bushing being spaced from the housing, and a flexible tube mounted at its ends on the upper end of the bushing and the lower portion of the gland respectively and spaced throughout its length from the housing, said tube being positioned to surround a polish rod or the like mounted for reciprocation within the gland and bushing, the gland and tube being positioned between the bushing and the top plate, said top plate constituting means for limiting the movement of the gland in one direction with the polish rod and said supporting means between the housing and gland constituting means for limiting the movement of the gland in the opposite direction with the polish rod.

2,159,307
DOUBLE ACTION NUT HULLER
W. Charles Anderson, Linden, Calif.
Application December 13, 1937, Serial No. 179,513
9 Claims. (Cl. 83—37)



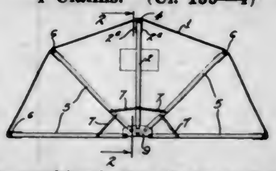
1. A walnut huller comprising a circular hulling chamber having a horizontal floor provided with a central nut discharge opening and hull discharge slots outwardly of the opening, a rotary vertical-axis brush depending into the chamber to engage and hull nuts therein, means to feed nuts onto the floor adjacent the periphery thereof and at a plurality of spaced points simultaneously, and a plurality of circumferentially spaced diverter bars upstanding from the floor and extending inwardly from the periphery thereof to the central opening.

2,159,308
THREAD CUTTING MACHINE
Mark W. Anthony, Houston, Tex.
Application September 25, 1937, Serial No. 165,695
5 Claims. (Cl. 82—36)



1. A machine of the character described comprising a frame having end members provided with aligned bearings, a bar mounted for longitudinal movement in said bearings, a cutter on the bar, a sleeve between the end members threaded onto the bar, antifriction means for confining the sleeve against endwise movement in the frame, means for rotating the sleeve relative to the bar to effect longitudinal adjustment of the bar.

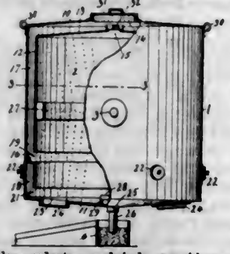
2,159,309
COMBINED SUNSHADE AND TENT
Armand A. Betourne, San Diego, Calif.
Application April 28, 1936, Serial No. 76,749
4 Claims. (Cl. 135—4)



3. In a combined sun shade and tent of the class described, the combination of a pair of oppositely disposed spaced plates, a stay member rigidly and immovably secured to the middle of each of said plates and extending therefrom, a cross bar connecting the extended ends of said stay members, a plurality of similar stay members pivotally connected to each of said plates on opposite sides of said rigidly and immovably secured stay member and adjacent to each other, cross bars connecting said pivotally mounted stays, foldable braces connecting said pivotally mounted stays with said rigidly mounted stays at one side adapted to hold said pivotally mounted stays in spread relation relatively to said rigidly mounted stay when said braces are extended and foldable substantially together when said braces are folded.

2,159,310
PORTABLE KILN
Carl S. Bang, Montreal, Quebec, Canada
Application April 19, 1937, Serial No. 137,789
In Canada April 25, 1936
6 Claims. (Cl. 202—213)

6. In a portable kiln, an outer shell supported by trunnions on a stand having slightly conical top and bottom, a central outlet to the top, openings in the bottom to insert the charge, an inner shell having a top forming an annular flue leading to the central outlet, an opening in the inner shell in its lower portion, a horizontal plate in the flue below the opening cutting off the section below the plate, which section opens at its bottom to the interior of the kiln, a series of controlled air inlets to this section of the flue, an outlet in the top of the inner shell below the central outlet and an outlet in the center of the bottom of the kiln, and means to tilt the kiln to a horizontal position for filling and emptying the charge.



2,159,311
WALNUT TREE SHAKER
Joseph D. Berger, Covina, Calif.
Application May 22, 1937, Serial No. 144,185
10 Claims. (Cl. 56—328)



1. In a machine for shaking the limbs of trees, the combination of a boom, means for supporting the same for rotation on a substantially vertical axis adjacent its lower end, said boom having an extensible section at its upper end having means for engaging the limb of the trees, means for raising and lowering the boom, means for imparting movement to the said extension to advance and withdraw the same, and means for reciprocating the limb engaging means.

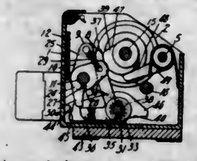
2,159,312
PROCESS FOR BREAKING OIL-IN-WATER TYPE PETROLEUM EMULSIONS
Charles M. Blair, Jr., Webster Groves, Mo., assignor to The Tret-O-Lite Company, Webster Groves, Mo., a corporation of Missouri
No Drawing. Application December 13, 1937, Serial No. 179,471
11 Claims. (Cl. 196—4)

1. A process for breaking naturally occurring oil-in-water type crude petroleum emulsions that are substantially free from usual emulsifying agents and in which the dispersed phase represents a significant proportion of the total emulsion, characterized by subjecting the emulsion to the action of a demulsifier comprising (*a*) a multipolar, substantially un-ionized colloid of distributed hydrophilic character, and (*b*) an electrolyte; and characterized by the fact that ratios of (*a*) to (*b*) are within the range of 10 to 1 and 1 to 100, the said demulsifier being used in a ratio of less than one part of demulsifier to 1,000 parts of emulsion.

2,159,313
PROCESS FOR BREAKING OIL-IN-WATER TYPE PETROLEUM EMULSIONS
Charles M. Blair, Jr., Webster Groves, Mo., and Charles Clinton Rogers, Jr., San Antonio, Tex., assignors to The Tret-O-Lite Company, Webster Groves, Mo., a corporation of Missouri
No Drawing. Application December 13, 1937, Serial No. 179,472
12 Claims. (Cl. 196—4)

1. A process for breaking naturally occurring oil-in-water type crude petroleum emulsions that are substantially free from usual emulsifying agents and in which the dispersed phase represents a significant proportion of the total emulsion, characterized by subjecting the emulsion to the action of a demulsifier comprising a multipolar, substantially un-ionized colloid of distributed hydrophilic character, the said demulsifier being used in a ratio of less than one part of demulsifier to 1,000 parts of emulsion.

2,159,314
COUNTER
Harvey N. Bliss, West Hartford, Conn., assignor to Veeder-Root Incorporated, a corporation of Connecticut
Application April 10, 1936, Serial No. 73,748
6 Claims. (Cl. 235—132)



1. A predetermining counter including a plurality of operatively connected counting mechanisms, predetermining mechanism operative after a predetermined count including predetermining means on said counting mechanisms and a pivoted frame having cooperating controlling members engaging said predetermining means, control means normally biased to controlling position, a latch controlling said control means normally biased into a position to engage and control said controlling means, means on said frame normally holding said latch against its bias and tripping the same upon operation of said predetermining mechanism, resetting means including a rotatable resetting shaft for returning said counting mechanisms and said predetermining mechanism to initial position following completion of the predetermined count, and means operable with said resetting means for moving said controlling means against its bias into position to be reengaged by said latch.

2,159,315
LATCH BOLT
Roy E. Blue, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 16, 1938, Serial No. 196,127
7 Claims. (Cl. 292—2)



2. A latch bolt comprising a main body portion having a keeper engaging end portion, a sheathing disposed around said keeper engaging end portion, and means between said sheathing and main body portion comprising resilient material having sound insulating properties for substantially completely insulating said keeper engaging

end portion from said sheathing while resiliently accommodating relative yielding movement therebetween.

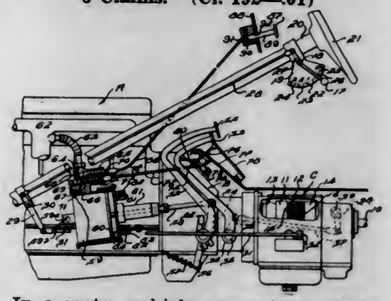
2,159,316

MOTOR VEHICLE POWER TRANSMISSION

Carl Breer, Grosse Pointe Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Continuation of application Serial No. 712,352, February 21, 1934. This application February 28, 1935, Serial No. 8,625

6 Claims. (Cl. 192—.01)



1. In a motor vehicle power transmission, an engine having an intake adapted to produce a relatively low pressure during operation thereof, a planetary gear transmission, a clutch transmitting the drive from said engine to said transmission, manually operable control means, and means for utilizing said low pressure under control of said control means for actuating said clutch.

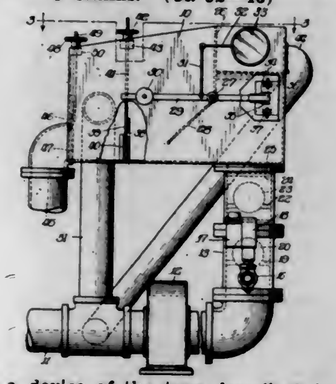
2,159,317

PAPER PULP CONSISTENCY REGULATOR

Edward L. Buchanan, Menasha, Wis., assignor to The Appleton Machine Company, Appleton, Wis., a corporation of Wisconsin

Application July 1, 1936, Serial No. 88,411

5 Claims. (Cl. 92—46)



1. In a device of the type described, in combination, a paper stock supply line, means for supplying water of dilution to said supply line, a vertical mixing line, an orificed ball seat in said mixing line, a ball for said seat and adapted to be raised by flow through said line to open said orifice, an open head box communicating with said mixing line, an overflow line extending from said box to said supply line, a pivotal counterweighted consistency-indicating wing valve extending across said head box and affording a path of travel for paper stock therebeneath, a forward dam of less height than said overflow line on the discharge side of said wing valve, a supply compartment for receiving paper stock from said dam, an overflow in said compartment at a lower level than said dam, means for transferring stock from said compartment to a paper machine, and means responsive to movement of said wing valve for controlling said dilution means.

2. A device of the type described, comprising a head box having three compartments provided with progressively lower overflows, means for supplying paper stock to the first of said compartments, a transverse partition and a pivotally mounted consistency-indicating wing valve below said position between the first and second of said compartments and confining the flow of paper stock between the first and second compartments to beneath said valve, a movable dam between the second and third compartments providing a level of paper stock in the second compartment below that in the first compartment and providing for flow of the paper stock thereover into the third compartment, means responsive to movement of said valve for diluting said paper stock, and means for transferring paper stock from the third compartment to a paper machine.

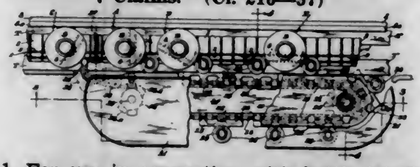
2,159,318

MECHANISM FOR LABELING BOTTLES AND OTHER CONTAINERS

Sidney T. Carter, New Kensington, Pa., assignor, by mesne assignments, to Schenley Distillers Corporation, a corporation of Delaware

Application April 27, 1938, Serial No. 204,526

7 Claims. (Cl. 216—57)



1. For use in connection with bottle labeling mechanism, feeding means adapted to feed a bottle, associated turning means adapted to turn the bottle around its own axis, spotting means located on said feeding means and adapted to engage the outer surface of the bottom wall of the bottle and to stop the turning of said bottle under the action of said turning means when the bottle has assumed a predetermined circumferential position.

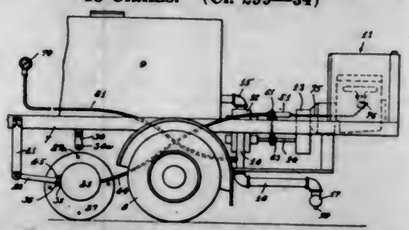
2,159,319

DISTRIBUTOR APPARATUS AND GOVERNOR THEREFOR

Horace A. Cartwright, Oregon, Ill.

Application September 23, 1936, Serial No. 102,104

18 Claims. (Cl. 299—34)



1. The combination in a distributing apparatus of a vehicle, a tank for material to be sprayed, a pump for supplying spraying pressure to the material, means for driving the pump, and governor means for causing said driving means to drive the pump at a speed in direct fixed proportion to the speed of the vehicle to distribute a uniform amount of material per unit of travel.

2,159,320

CAR LOADING DEVICE

Ben Colman, Detroit, Mich., assignor to The Worth Company, a corporation of Michigan

Application March 13, 1935, Serial No. 10,811

1 Claim. (Cl. 248—119)



An attaching member adapted to be connected to a frame member of an automobile comprising an integral sheet of metal of substantial T shape initially, said sheet of metal having the ends of the arms of the T bent in one direction from the plane of the mid-portion of said arms to embrace opposite sides of the frame, and having the stem of the T bent in the opposite direction from the mid-portion of said arms and provided with an aperture, said end portions of the arms being provided with means for securing them to the frame member.

2,159,321

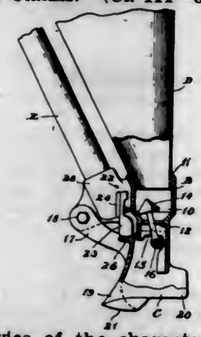
FERTILIZING DEVICE

Albert E. Currie, Ottawa, Ontario, Canada

Application April 19, 1937, Serial No. 137,614

In Canada June 20, 1936

2 Claims. (Cl. 111—82)



1. In a device of the character described, a body member formed with inlet and outlet openings, a closure valve for the outlet opening, a shoe member pivotally connected to the body member, operating means operatively connecting the closure valve with the shoe member and adjustable means for regulating the movement of the closure valve.

2,159,322

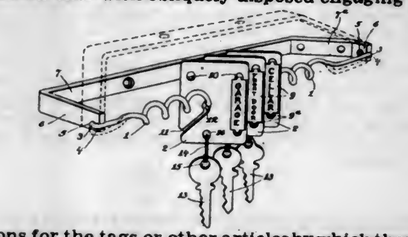
KEY CHECK AND RACK

Arthur Drummond, Rye, N. Y.

Application June 28, 1937, Serial No. 150,681

10 Claims. (Cl. 40—19.5)

1. A support for identification tags and other articles of the hook-on type, comprising a member provided with a divisional formation by which the tags or other articles are spaced apart thereon and further with obliquely disposed engaging portions for the tags or other articles by which they are held in overlapping relation and at such an angle as to normally face substantially outward with part of the front surface of each exposed to view.



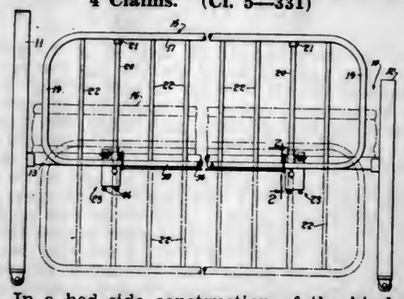
2,159,323

REMOVABLE BED SIDE

John Erdos, Chicago, Ill., assignor to Inland Bed Company, Chicago, Ill., a corporation of Illinois

Application June 11, 1937, Serial No. 147,638

4 Claims. (Cl. 5—331)



4. In a bed side construction of the kind described, a supporting plate, clamping plates carried by said supporting plate for detachably securing the latter to the longitudinal rail of a bed, a guide member with which a part of the bed side has a sliding engagement, means connecting said guide member to said supporting plate for a limited rocking movement in a plane parallel with said rail, and means carried by said supporting plate and operable to lock said clamping plates in clamping engagement upon said rail, said clamping plates being reversible end-for-end on said supporting plate to bring the desired end of said clamping plate in the uppermost position.

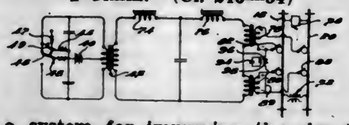
2,159,324

RAILWAY SIGNALING SYSTEM

James Moore Evans, Detroit, Mich., assignor to Evans Products Company, a corporation of Delaware

Application June 20, 1936, Serial No. 86,328

1 Claim. (Cl. 246—34)



In a system for improving the shunting of track circuits by breaking down rail contact resistance, and embodying a source of track circuit energy, the combination of a first connection

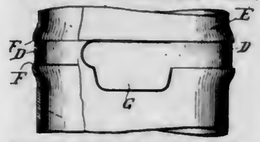
having its terminals electrically connected to the rails of said track and including a source of periodically varying current; a second connection having its terminals electrically correspondingly connected to said rails and forming with said first connection a local circuit for said periodically varying current; and a bridging connection extending from one terminal of said first connection to an opposite terminal of said second connection, said bridging connection being arranged to act as a choke to the frequency of said current, but to present a low impedence to said track circuit energy.

2,159,325

METHOD OF RENDERING SHEET METAL AND SHEET METAL ARTICLES READILY SEVERABLE

Edward H. Fabrice, Chicago, Ill., assignor to Guardian Safety Seal Company, Chicago, Ill., a corporation of Illinois

Application September 30, 1935, Serial No. 42,858
2 Claims. (Cl. 113—121)



1. The hereindescribed method of rendering severable a sheet metal sealing cap for bottles annularly thereof between its ends without leaving burrs along any of the edges of the portions of said cap severed from each other, which consists in offsetting inwardly from the circumferential faces of the cap and between the ends of the latter a strip of the metal of said cap a distance less than the thickness of the metal by partially shearing said metal along two parallel planes extending perpendicularly to the axis of the cap and completely severing one end portion of said strip of metal from the cap to provide a digitally engageable terminal tongue integral with said cap by means of which said strip of metal may be torn completely progressively outwardly of and from the body of the cap, thereby to divide the latter into three parts presenting smooth severance edges.

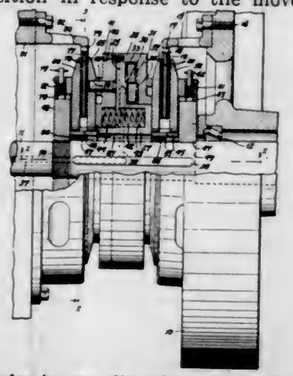
2,159,326

CLUTCH AND BRAKE

Reymour E. Harwood, Kenmore, and George E. Munschauer, Buffalo, N. Y., assignors to Niagara Machine & Tool Works, Buffalo, N. Y., a corporation of New York

Application May 4, 1938, Serial No. 206,010
8 Claims. (Cl. 192—18)

1. A combined clutch and brake, comprising a drive shaft, a wheel loosely mounted on said drive shaft, a hub fixed to said shaft and formed to provide a piston, an axially movable operating cylinder housing said piston, said hub and the interior of said cylinder being formed to provide an annular series of opposed pockets, a compression spring of predetermined strength compressed within each pair of said opposed pockets, means for introducing fluid under pressure to the working chamber of said cylinder to move said cylinder in opposition to said springs, a pair of clutch disks mounted on and rotating with said shaft and located between said cylinder and said wheel, a friction disk mounted on said wheel and interposed between said pair of clutch disks, a pair of brake disks mounted on and rotating with said shaft and arranged on the opposite side of said cylinder from said wheel, a friction disk secured to a stationary part of said press and interposed between said pair of brake disks, spring means between said pairs of disks and urging them apart, means for moving one of said pair of clutch disks axially to an operative position in response to the movement of



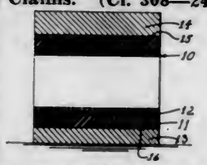
said cylinder in one direction, means for moving one of said pair of brake disks axially to an operative position in response to the movement of the cylinder in the opposite direction, means for adjusting the other of said pair of clutch disks axially toward said piston and means for adjusting the other of said pair of brake disks axially toward said piston.

2,159,327

BEARING

John V. Hendrick, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application March 8, 1937, Serial No. 129,662
4 Claims. (Cl. 308—240)



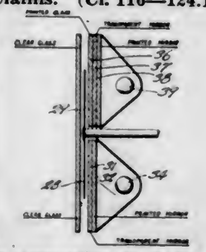
1. A bearing member including a porous metal journal portion having a substantial absorbed liquid lubricant content, a yieldable sleeve comprising non-metallic material surrounding said journal portion, and an intermediate sleeve comprising lubricant impervious material between said journal portion and said yieldable sleeve.

2,159,328

INDICATING APPARATUS

Philip Horinstein, Chicago, Ill.

Application May 21, 1937, Serial No. 144,035
4 Claims. (Cl. 116—124.1)



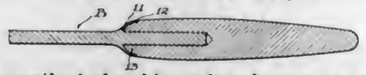
1. Indicating apparatus including a movable indicator, a front dial for the indicator including some indicia with respect thereto, a transparent mirror behind the front dial, and a rear dial behind the transparent mirror including further indicia for the indicator, and means for illuminating the rear dial at will to render it visible or invisible.

2,159,329

METHOD OF MAKING INTEGRAL FERRULES AND TOOL SHANKS

Joseph G. Jackson, Oak Park, Ill., assignor to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois

Application May 29, 1937, Serial No. 145,446
1 Claim. (Cl. 76—101)



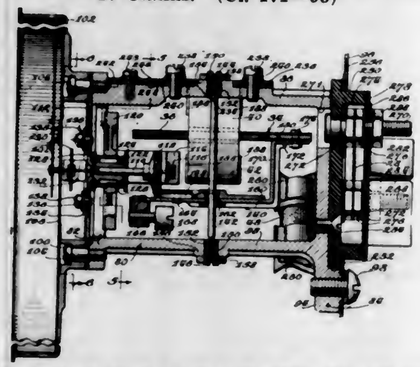
The method of making a ferrule on a tool shank which consists in first compressing the shank to extrude a thick integral colar and then compressing said thick integral collar to form a cup-shaped ferrule on said shank.

2,159,330

ELECTRIC SPEEDOMETER

Edward George Kelly, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application March 3, 1937, Serial No. 128,754
17 Claims. (Cl. 171—95)



3. In apparatus of the type described, the combination including indicating means, a shaft mounted for rotation on a horizontal axis for actuating said means, a shaft mounted for rotation on a vertical axis, means including an electromagnetically actuated armature for imparting rotation to said second mentioned shaft, said armature substantially surrounding said shaft and being secured thereto by a support providing a space substantially centrally of the shaft between the armature and support, and gear means located in said space and mounted on said shafts for transmitting movement from one shaft to the other.

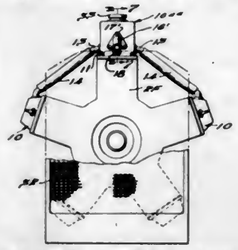
2,159,331

ENGINE

Roger K. Lee, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application September 25, 1936, Serial No. 102,484
6 Claims. (Cl. 123—173)

1. In combination, an internal combustion engine of the radially arranged cylinder type comprising a plurality of wall members each providing a combustion chamber for a respective cylinder, a casing member secured to each of said



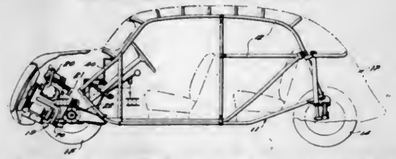
wall members and providing a cooling jacket therefor, and a radiator for said engine, one of said casing members providing an upper tank for said radiator.

2,159,332

MOTOR VEHICLE

Roger K. Lee, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 4, 1936, Serial No. 114,192
12 Claims. (Cl. 180—54)



1. A vehicle including a wheel suspension, a vehicle body adjacent thereto, an engine unit mounted on said wheel suspension, yieldable means interposed between and connecting said body and wheel suspension, said yieldable means being so constructed and arranged as to accommodate oscillatory movement of said engine unit about an axis spaced from the center of gravity thereof, and yieldable engine unit stabilizing means coacting between said engine unit and body at a location on the opposite side of said axis from that on which said center of gravity is disposed.

2,159,333

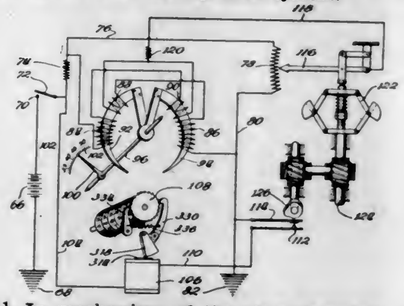
ELECTRIC SPEEDOMETER

Arden W. Le Fevre and Willard H. Farr, Chicago, Ill., George E. Coxon, Cicero, and John B. Whitted, Evanston, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application November 23, 1934, Serial No. 754,522
53 Claims. (Cl. 175—183)

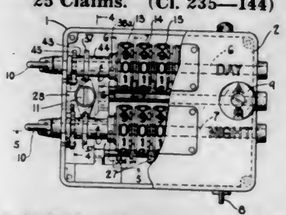
1. In an automobile having a rear mounted engine, rear wheels driven therefrom through power transmission mechanism, an instrument board remote from said engine wheels and power transmission mechanism, said engine having an ignition system, the combination of electrically-operated speed and mileage indicating means mounted on said instrument board, a battery for operating said means, said battery being connected to said ignition system and being of variable voltage, translating means driven from said power transmission means and located at a point remote from said instrument board, electrical connections between said translating means and said indicating means, said translating means controlling said indicating means, means con-

necting said indicating means and translating means with said battery and including a variable resistance automatically compensating for variations in battery voltage, and a single switch in said last-named means for simultaneously controlling electrical communication between said battery and said indicating means and between said battery and said ignition system.



11. In mechanism of the class described, the combination of indicating means, a shaft for operating said means, a pair of separate armatures connected to said shaft, a coil associated with each armature, calibrating means whereby relative displacement may be effected between each coil and its associated armature, a source of electrical energy for said coils, and translating means for varying the currents flowing through said coils.

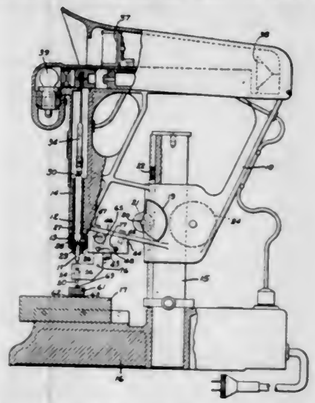
2,159,334
COUNTER
Gustave L. Manke, Hartford, Conn., assignor to Veeder-Root Incorporated, a corporation of Connecticut
Application August 19, 1935, Serial No. 36,820
25 Claims. (Cl. 235—144)



1. In a locked pick counter mechanism, two counters each having operatively connected counter elements, rotatable resetting mechanism for said counter elements including resetting shafts rotatable to reset said counter elements to zero and operating members for separately rotating said shafts, and means for locking said resetting mechanism against resetting movement including locking portions rotatable with said shafts, a lock and key located between said resetting shafts and controlling the resetting of said counter elements, and a swinging locking member controlled by said key and cooperating directly with said rotatable locking portions.

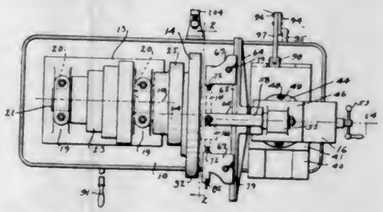
2,159,335
MEASURING INSTRUMENT
Frederick H. Markwick, Dayton, Ohio, assignor to The Sheffield Gage Corporation, Dayton, Ohio, a corporation of Ohio
Application December 6, 1937, Serial No. 178,289
2 Claims. (Cl. 33—147)

1. A gauging device of the character described comprising a support, an axially movable gauging member movable in said support, gauging mechanism carried by said support and operated by said gauging member, said support having a portion for holding a work specimen, an arm extending adjacent the gauging member, a plunger mounted for axial movement in said arm in line with said gauging member and having one end engaging said gauging member and the other



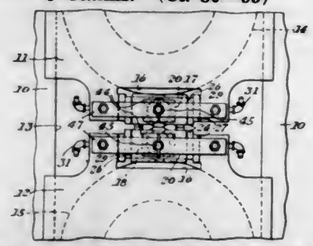
end adapted for engagement with the work, a spring for urging said plunger yieldingly away from the gauging member, and means pivotally mounting said arm on said support for movement about an axis extending transversely of the axis of said plunger and providing for ready withdrawal of the plunger from alignment with the gauging member to provide for engagement of said gauging member with the work.

2,159,336
LAPPING MACHINE
Frederick H. Markwick and Louis F. Poock, Dayton, Ohio, assignors to The Sheffield Gage Corporation, Dayton, Ohio, a corporation of Ohio
Application July 5, 1935, Serial No. 29,794
14 Claims. (Cl. 51—119)



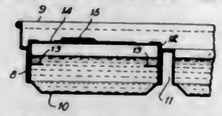
1. A lapping machine comprising a rotatable lapping member having a flat lapping face, drive means effective on the lapping member to impart a driving force thereto that is of substantially uniform value and is small enough in comparison to the retarding effect of a work piece held thereagainst to produce change in the rotational speed of the lapping member by varying the positioning of the work piece with respect to the axis of rotation of the lapping member, means for holding a workpiece in engagement with said lapping member, and means for moving the work piece across the face of the lapping member to indeterminately vary the driving relationship between the drive means and the lapping member.

2,159,337
ROLL BEARING
William C. McBain, Youngstown, Ohio
Application October 15, 1936, Serial No. 105,723
9 Claims. (Cl. 80—55)



1. The combination with a rolling mill having backing rolls journaled in bearing chocks, said chocks having recesses therein, of work roll bearings seated in said recesses, said bearings having a close fit in said recesses but being freely movable therefrom with the work roll on axial movement of the latter, passages in said chocks and bearings adapted to be alined when the bearings are properly positioned in the chocks, and means for sealing the joints between the passages in the chocks and the passages in the bearings.

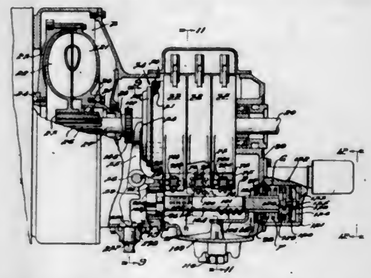
2,159,338
APPARATUS FOR FORMING CONFECTIONS
William J. Murphy, Crafton, Pa.
Application February 25, 1938, Serial No. 192,538
3 Claims. (Cl. 107—19)



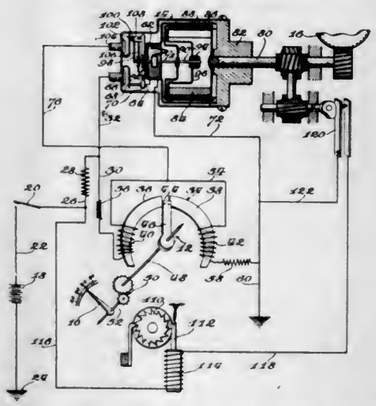
1. Freezing apparatus for making molded articles, comprising a tray having a liquid receiving depression formed in its bottom wall, of the general configuration of the articles to be frozen therein, and forming portions of the mold walls for the articles, and a container mounted in inverted position in said depression to form other portions of the mold walls, and having vertical side walls which closely fit the side walls of said depressions, the said vertical walls extending below the liquid level in the depression, to points adjacent the bottom of the depression, and retaining elements carried by and projecting inwardly from the side walls of the container.

2,159,339
POWER TRANSMISSION
Carl A. Neracher, Detroit, and Teno Iavelli, Dearborn, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 7, 1935, Serial No. 53,284
46 Claims. (Cl. 74—262)

1. In a motor vehicle transmission having a plurality of speed ratio controlling devices, fluid power operating means for selectively operating said controlling devices, an adjustable element adapted to selectively establish an operating connection between said power operating means and said controlling devices, fluid pressure valving means controlling said power operating means, electrically energized means for operating said valving means, a manually operable selector element, motion transmitting mechanism operably connecting said selector element with said adjustable element, and means so constructed and arranged that manual adjustment of said selector element causes operation of said electrically energized means and adjustment of said adjustable element through the medium of said motion transmitting mechanism.



2,159,340
ELECTRIC SPEEDOMETER
Horace M. Norman, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application February 26, 1937, Serial No. 127,845
10 Claims. (Cl. 175—183)

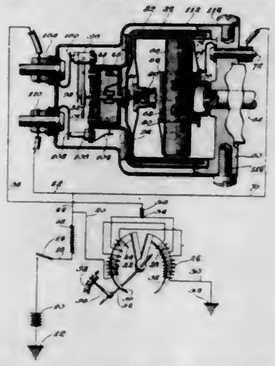


1. In indicating means of the class described, the combination including a shaft, an armature connected thereto, solenoids for actuating said armature in opposite directions, means including circuits individual to said solenoids for supplying current thereto, means for varying the relative strengths of the currents in said solenoids, and means for maintaining the resistances of each of said circuits constant at all times.

2,159,341
ELECTRICAL SPEEDOMETER
Thorolf Paul, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application February 20, 1936, Serial No. 64,913
8 Claims. (Cl. 175—183)

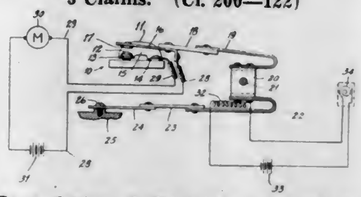
3. In an electrical indicator of the class described, the combination of a stationary magnet, a pivoted part influenced thereby, a rotating piece of magnetic material for controlling the

effect of said magnet on said pivoted part, means for rotating said magnetic piece, and indicating



means responsive to the influence of said magnet on said part.

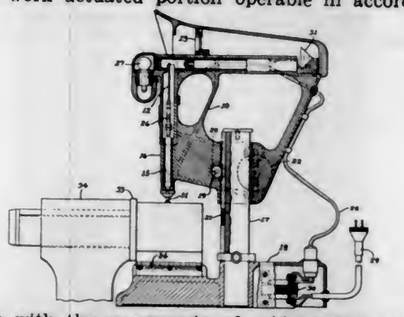
2,159,342
COMPENSATED SWITCH
Lawrence M. Persons, St. Louis, Mo., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware
Application May 11, 1936, Serial No. 79,053
Renewed April 3, 1939
3 Claims. (Cl. 200—122)



1. In a device of the kind described, a base, a pivoted element mounted for oscillation on said base, a first heat responsive means consisting of a reversely bent bimetallic element secured at one end of the pivoted element and abutting the base at its other end, whereby it acts to pivot said element upon heat changes, a second heat responsive means in the form of a bimetallic element attached at one end to said pivoted element, means attaching a contact at the other end of said bimetallic element, means for applying heat to one of said heat responsive means, whereby to shift the contact, the other of said heat responsive means acting oppositely to said first in response to heat changes whereby to compensate for the effect on said contact of ambient temperature changes.

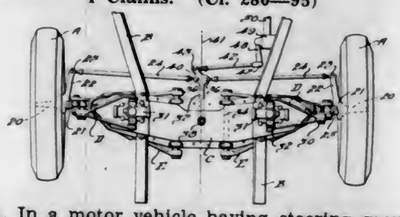
2,159,343
GAUGING APPARATUS
Louis F. Poock and Willis Fay Aller, Dayton, Ohio, assignors to The Sheffield Gage Corporation, Dayton, Ohio, a corporation of Ohio
Application December 22, 1937, Serial No. 181,068
6 Claims. (Cl. 33—178)

1. Gauging apparatus of the character described comprising a base, a work supporting arbor on said base, an elongated actuating member extending longitudinally along said arbor and having a work actuated portion near one end adapted for engagement with an internal surface of a work piece supported by said arbor and having a gauge actuating part remote from the work actuated portion operable in accord-



ance with the movements of said portion, and means supporting said actuating member on said arbor for parallel motion.

2,159,344
MOTOR VEHICLE
Frederic W. Slack, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application March 30, 1935, Serial No. 13,851. Divided and this application November 18, 1937, Serial No. 175,176
4 Claims. (Cl. 280—95)

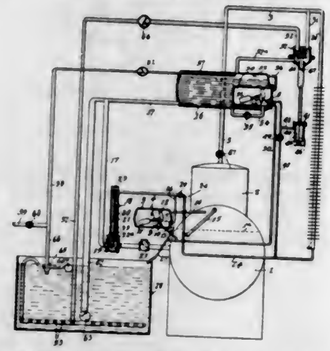


1. In a motor vehicle having steering ground wheels and a steering gear provided with a pitman arm, tie rods extending from said wheels generally toward each other, an idler guide link articulated at one end thereof to the inner ends of said tie rods, means for pivotally supporting the other end of said guide link for lateral swinging, a drag link extending generally transversely of the vehicle and having its ends spaced longitudinally of the vehicle and respectively articulated to said pitman arm and said guide link, said drag link lying at an acute angle with the vertical longitudinal mid-plane of the vehicle and normally disposed tangentially to the arcs of swinging of said pitman arm and guide link when said wheels are positioned for straight ahead vehicle travel whereby to substantially equalize steering movements of said wheels in opposite directions for equal amounts of arcuate travel of said pitman arm to either side of said normal position thereof.

2,159,345
BOILER FEED APPARATUS
Roy E. Strobel, Bakersfield, Calif., assignor of one-half to Eda Hurst, and one-half to Bank of America National Trust and Savings Association, executor of the estate of Fred Hurst, deceased, both of Ventura, Calif.
Application December 20, 1937, Serial No. 180,839
11 Claims. (Cl. 122—456)

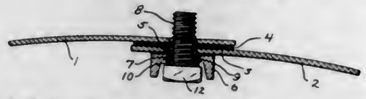
1. In a boiler feed apparatus, the combination of a feed-water holder at an elevation above the

boiler level, a feeder pipe for delivering water from the feed-water holder to the boiler, a normally closed feed valve in said pipe, a steam line for admitting steam from the boiler to the upper portion of the interior of the feed-water holder above the water level therein, pressure-controlled means associated with the said valve for opening the same, means for controlling the last-named means through the agency of the water level in the



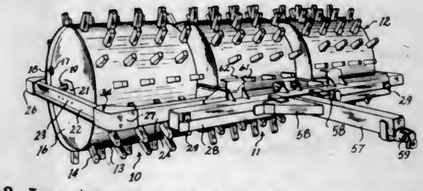
boiler to effect the opening of the valve when the water level reaches the lower limit, to drain the feed-water holder into the boiler, and means associated with the feed-water holder and activated by the substantial draining of the feed-water holder, for shutting off the admission of steam from the boiler to the feed-water holder, and for permitting the escape of the steam within the feed-water holder.

2,159,346
BOLTED CONNECTION
Joseph C. Welch and Marshall P. Wilder, Houston, Tex.
Application January 19, 1937, Serial No. 121,243
2 Claims. (Cl. 220—81)



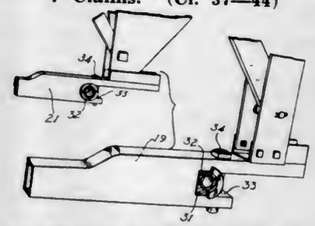
1. A bolted connection for tanks comprising two overlapping plates, a sealing sheet between the plates, a reenforcing channel member inside of the overlap, said channel comprising a web and inwardly facing flanges, a bolt passed outwardly through all of the assembled parts with the head of the bolt disposed in the channel so that the flanges hold the bolt against rotation, a resilient non-metallic packing ring around said bolt and in the opening of the channel, said ring being normally of a greater depth than the thickness of the chanel web, the opening in the channel to receive said ring being larger than the remaining openings so that the inside plate provides a shoulder at the base of the channel opening upon which said ring is seated, and a nut to thread onto said bolt to pull the head outwardly against the web of the channel and to apply pressure to said ring so as to deform the ring by pressing it against the inside of the opening in the channel, against the periphery of the bolt, and against the shoulder of the inside plate and outwardly along the bolt to contact said sealing sheet so as to completely seal the inside of the bolted connection and said sealing sheet to prevent seepage along the bolt.

2,159,347
TAMPING MEANS
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa, a corporation of Delaware
Application September 17, 1936, Serial No. 101,309
11 Claims. (Cl. 55—47)



2. In a tamper, a plurality of rollers, a frame for each one of the rollers, cross beams front and rear of the rollers and common to all of the rollers, the end rollers being pivotally attached to the cross beams, and the intermediate rollers having a universal joint connection with front cross beam and sliding connection with the rear cross beam to permit independent floating movement thereof.

2,159,348
EARTH MOVING DEVICE
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant Choate Manufacturing Company, Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application November 23, 1936, Serial No. 112,199
7 Claims. (Cl. 37—44)



1. In an earth moving device, a tractor, an earth moving blade, a side arm for the blade having a receptacle therein, and means for pivotally connecting the blade to the tractor including an eccentric bushing adapted to be received in the receptacle in the side arm, in a plurality of positions, but employing the same receptacle in all positions whereby the side arm may be located in any of several positions.

2,159,349
CASTING BODIES
Albert Lee Bennett, Glendale, Calif., assignor to Malinite Corporation, Los Angeles, Calif., a corporation of California
No Drawing. Application May 14, 1934, Serial No. 725,653
7 Claims. (Cl. 106—11)

2. In a method of making casting slips, the steps of: calcining natural minerals characterized by a flake-like structure while said minerals are in lump form to substantially dehydrate the same, then reducing the calcined minerals to a state of fine division, incorporating said calcined minerals with a matrix material relatively high in alkalies and a binder in the proportion of about 20% to 60% by weight of said calcined mineral, 20% to 40% by weight of a plastic clay,

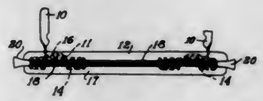
and 10% to 30% by weight of a matrix material, and then forming a slip from said mixture by incorporating water in sufficient amount to form a substantially fluid slip.

2,159,350

MOP HOLDER

Jacob Bundenthal, George Bundenthal, and William D. Kimpton, Dayton, Ohio

Application June 12, 1937, Serial No. 147,950
1 Claim. (Cl. 15—147)



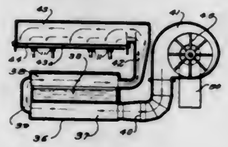
A clamp for a mop head, comprising two channel shaped jaw members, said jaw members being formed with registering slots, two U-shaped prong members whose legs project through adjacent slots in one jaw member for projection through the corresponding slots of the second jaw member when said jaw members are disposed back to back, the legs on said U-shaped members adapted to be bent against the inner surface of the second jaw member within its concave portion to firmly secure it to the first jaw member, vertical handle-prong receiving elements having foot portions riveted to the first jaw member over the cross portions of the U-shaped members in the concave portion of said first jaw member to fixedly attach said prongs to the latter.

2,159,351

METHOD OF AND MEANS FOR WAXING TIN PLATE

Wilford E. Burns, Burlingame, Calif., assignor to M. J. B. Company, San Francisco, Calif., a corporation of Delaware

Application January 18, 1937, Serial No. 121,153
4 Claims. (Cl. 91—70)



1. The method of applying a lubricating film, which comprises conveying the sheets of tin plate through a treating station and then through a cooling interval, creating lubricating vapor within an enclosure, causing a stream of hot air to be directed through the enclosure, thereby to be charged with the vapor, and then against the plate surface to be treated while the sheet is passing through the treating station, and causing cooling air to be directed against the surface of the sheet opposite that being treated.

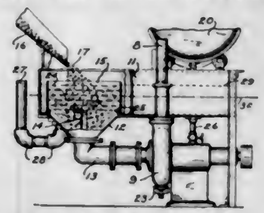
2,159,352

HYDRAULIC CONVEYER

Frank D. Chapman, Berlin, Wis.

Application September 23, 1936, Serial No. 102,105
9 Claims. (Cl. 302—14)

1. A hydraulic system comprising, a conduit, a liquid supply basin for said conduit, an annular perforated wall projecting into said basin from the inlet end of said conduit, means associated with the inlet end of said conduit for retarding swirling of the liquid flowing from said basin past said wall to said conduit, and means for delivering granular material to said conduit within said wall.

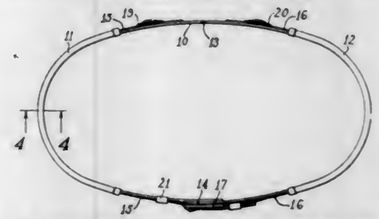


2,159,353

WAIST CONSTRUCTION FOR TROUSERS

Ralph Chieffo, West Haven, and Antony Rossomando, New Haven, Conn.

Application May 22, 1937, Serial No. 144,122
3 Claims. (Cl. 2—237)



1. A waistband portion for trousers comprising means providing separated belt tunnels outside of the waistband at the sides of the garment, said tunnels extending over the greater portion of the waistband with their ends being in spaced relation at the front and back exposing the waistband at said points, a pair of belt sections, each adjustably secured at its rear end to the waistband at the rear portion thereof between the proximate ends of the tunnels and extending through one of said tunnels, cooperating fastening means at the front ends of said belt sections between the front ends of the tunnels, and the rear ends of said belt sections extending to points adjacent the back center line of the waistband but being in spaced relation at the back of the garment to draw the waistband smoothly across the body of the wearer at the back thereof.

2,159,354

TORQUE WRENCH

Allen I. Dunn, Cedar Rapids, Iowa, assignor to Cedar Rapids Engineering Company, Cedar Rapids, Iowa, a corporation of Iowa

Application October 28, 1937, Serial No. 171,506
5 Claims. (Cl. 265—1)



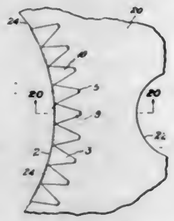
1. In a torque indicating wrench, a head, a socket post engaged by the head, a hollow flexible handle fixed to the head, a shaft within the handle and rigidly engaged within the head, a grip member fixed on said handle, an indicating device mounted within the grip member, the shaft being coextensive with the handle, and means operatively engaging the free end of the shaft to the indicating means for driving the indicating means.

2,159,355

GASKET AND BINDING THEREFOR

Hermann Goetze, Burscheid, near Cologne, Germany, assignor to Frederick W. Goetze, New Brunswick, N. J.

Application November 6, 1937, Serial No. 173,238
In Germany November 30, 1936
4 Claims. (Cl. 288—1)



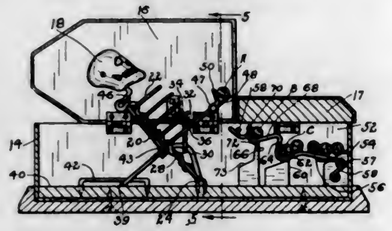
1. A substantially channel shaped binding strip for gaskets or the like adapted to be progressively conformed to and progressively affixed to the margin of the gasket or the like comprising a length of relatively pliable thin sheet metal having a band-like web portion with parallel side edges and having channel flanges comprising a plurality of substantially triangular shaped serrations having base lines coincident with said edges and integrally formed therewith and bent laterally therefrom, whereby the binding is adapted to be smoothly bent around curves of short radius.

2,159,356

CIGARETTE DISPENSER

Archie F. Lambert, Bellingham, Wash.

Application March 23, 1937, Serial No. 132,606
5 Claims. (Cl. 312—76)



1. In an automatic dispensing device, the combination with a receptacle and its hinged cover, a frame pivoted in the receptacle and having a link connected to said cover, and a receiver pivoted to the frame, of a cigarette carrier having a pivotal support and retained by the receiver, and a spring for actuating the carrier, whereby the frame is raised to deliver a cigarette to the receiver and the receiver containing a cigarette is elevated when the cover is opened.

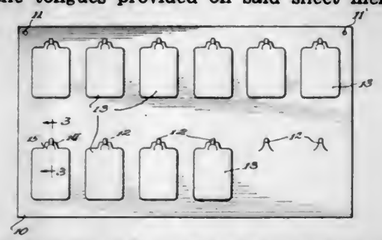
2,159,357

DETACHABLE SUPPORTING MEANS

Herman H. Lowenstein, Chicago, Ill.

Application March 30, 1938, Serial No. 198,980
3 Claims. (Cl. 40—124)

1. In combination with a sheet member of pliable material, insignia bearing elements, a series of tongues die-cut in said sheet member, and a tab die-cut in each of said insignia bearing elements and pressed out therefrom to present a substantially semi-circular slit for receiving one of the tongues provided on said sheet member



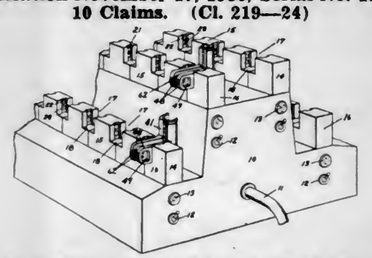
to support the said insignia bearing element on said sheet member.

2,159,358

HAIR WAVING DEVICE

John Metz, Hollis, N. Y.

Application November 17, 1936, Serial No. 111,191
10 Claims. (Cl. 219—24)



8. In a device of the class described, the combination of a bar of heat insulating material provided on its upper side with a heater receiving socket extending horizontally therethrough, a removable heater provided with a pair of handles extending in substantially parallel relation, located in said socket and projecting horizontally therefrom beyond opposite sides of the bar, a hot metallic hair clamp exposed beyond one side of the bar at one end of the handles and having an end thereof projecting above the bar and exposed to the external air, the other end of the handles each provided with a finger engaging aperture extending therethrough, and said apertured portion of the handles projecting beyond the adjacent side of the bar, said apertures tending to air cool the projecting ends of the handles, the portion of the bar adjacent to and on opposite sides of the socket providing a relatively cool stop for the fingers of the operator when grasping the apertured end of the handle to remove the hot heater from its socket.

2,159,359

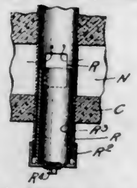
UNDER-FIRED COKE OVEN

Nikolaus M. Philipsen, Tokyo, Japan, assignor to Otto-Wilputte Ovenbouw Mij. (Otto-Wilputte Oven Construction Co.) N. V., The Hague, Netherlands, a corporation of the Netherlands

Application June 7, 1938, Serial No. 212,231
In Germany December 6, 1937
4 Claims. (Cl. 202—151)

1. In an underfired coke oven battery comprising a masonry mass above a basement space, the combination with coking chambers, flued heating walls, regenerators, and regenerator sole channels formed in said mass and all extending transversely of the battery, of a plurality of regenerator supply channels formed in the lower portion of said mass and extending transversely

of the battery and respectively adjacent the different regenerators, each supply channel having a plurality of outlets distributed along its length for the outflow to an adjacent regenerator of

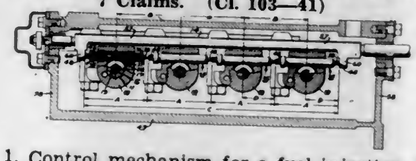


fluid to be preheated therein, and regulating devices associated with the different outlets and each accessible for adjustment by an attendant in said space.

2,159,360
FUEL INJECTION MECHANISM

Oscar L. Starr, Mission San Jose, and George W. Lewis, San Leandro, Calif., assignors to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California

Application May 19, 1936, Serial No. 80,566
7 Claims. (Cl. 103—41)

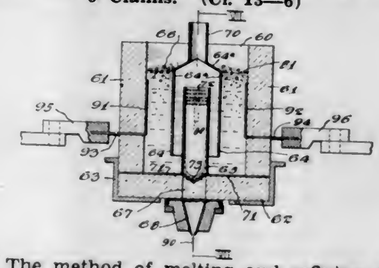


1. Control mechanism for a fuel injection device adapted to be detachably mounted on an engine with other similar detachably mounted devices and of the type having members relatively adjustable to control fuel injection, comprising an element having an axially extending passage therethrough, and means extending through said passage beyond both of the opposite ends of said element and having a threaded connection with said element to effect relative axial adjustment with respect thereto, said means being of a predetermined length and having its ends formed for freely disengageable surface contact with corresponding means of similar devices.

2,159,361
ELECTRIC FURNACE

Flavius W. Atkinson, Dale Kleist, Games Slayter, John H. Thomas, and George M. Lannan, Newark, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio

Application November 30, 1936, Serial No. 113,366
9 Claims. (Cl. 13—6)

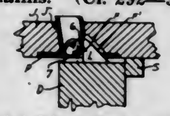


1. The method of melting and refining glass or similar material which comprises establishing a body of said material, providing a localized electrical heating in an interior zone of said body to render the material in said zone very fluid and above the liquidus melting temperature of the glass, causing the material surrounding said zone to be initially heated by transmission of heat from the interior portions of said material and thereby brought to a sufficiently high temperature at which it will convey current, passing an electrical current from an external independent source through the said surrounding material after it has been raised to said temperature at which it will convey current, causing said fluid material in said interior zone to be discharged, feeding said surrounding portions into said interior zone to replace the discharged fluid material, and feeding unmelted material into position to replace said material fed into the interior zone.

2,159,362
DOOR LATCH

Frank L. Aumack, Spokane, Wash., assignor to John G. Rotchford, as trustee, Spokane, Wash.

Application March 4, 1938, Serial No. 193,955
3 Claims. (Cl. 292—340)



1. In a door latching device, the combination with a latch-plate having a mortise-aperture, of a cage rigid with said plate, and a free rolling ball confined in said cage, said cage having a lateral opening merging with the mortise aperture, and said cage also having a front seat-opening merging with the mortise-aperture.

2,159,363
SNAP FASTENER STUD

Raymond O. Chaffee, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application November 20, 1936, Serial No. 111,825
2 Claims. (Cl. 24—213)



2. A snap fastener stud adapted for entry into and engagement with a part having a circular aperture and having base means, a shank formed by opposed yieldable legs joined together at an end of said shank spaced from said base means and each of said legs having a yieldable shouldered portion yieldable independently of said leg, each of said yieldable shouldered portions having one end integral with said respective leg and its opposite end free and disposed laterally beyond the plane of said leg, opposed narrow edges of each of said shouldered portions converging from adjacent its free end toward its end integral with said respective leg and the opposite narrow edges of each of said legs converging toward the joined end of the shank to provide a tapered entering portion on the fastener stud.

2,159,364
ETHERS OF 1,3-DIHYDROXY-ISOBUTANE AND 1-CHLORO-3-HYDROXY-ISOBUTANE

Gerald H. Coleman and Garnett V. Moore, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

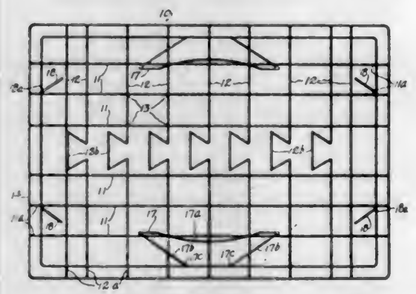
No Drawing. Application April 28, 1937, Serial No. 139,581
9 Claims. (Cl. 260—612)

1. An aryl ether of an alcohol selected from the class consisting of 1-chloro-3-hydroxy-isobutane and 1,3-dihydroxy-isobutane, said ether containing no free hydroxyl group.

2,159,365
PLATE BASKET FOR COLLECTIVE DISH-WASHING

Catherine Barrie, Cold Spring Harbor, N. Y.

Application November 16, 1937, Serial No. 174,797
4 Claims. (Cl. 141—9)

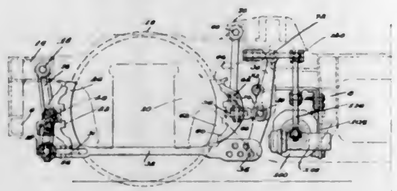


1. A device for the collective washing of plates, including a wire basket having spaced parallel wires each forming a loop of generally inverted U-shape, the different loops being parallel and sloping and lying in a single row intermediate of the side walls of the basket, said wires each having continuously straight portions extending integrally from the ends of the loops in opposite direction to the side walls of said basket so that the bottom of said basket is plane except for said loop portions to thus facilitate the washing of the basket, and means for holding plates at the corners of said basket, said means being located wholly above the bottom thereof and including interrupted elements connected to the basket and extending obliquely of a corner thereof to thus hold a plate upright across a corner of the basket.

2,159,366
BRAKE ARRANGEMENT

Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Original application June 17, 1935, Serial No. 27,067. Divided and this application June 20, 1938, Serial No. 214,797
20 Claims. (Cl. 188—56)



1. In a railway car truck, the combination of a frame having side members and a transom, a supporting wheel and axle assembly, power means mounted on said transom transversely of said frame, brake rigging for said assembly including brake beams disposed on opposite sides of said assembly, and connections between said power means and said brake rigging inwardly of said wheels comprising interconnected levers connected to said brake rigging at opposite sides of the truck.

2,159,367
STABILIZATION OF CELLULOSE ETHERS

Shailer L. Bass and Howard N. Fenn, Midland, Mich., and Floyd C. Peterson, Syracuse, N. Y., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

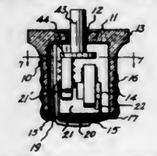
No Drawing. Application December 9, 1937, Serial No. 178,960
12 Claims. (Cl. 260—232)

1. The process which comprises subjecting a solution of a cellulose ether in a non-reducible organic solvent to the action of hydrogen at a pressure in the range from about 300 to about 1000 pounds per square inch and at a temperature in the range from about 100° to about 200° C., in the presence of a hydrogenation catalyst, and recovering the so-treated cellulose ether which is characterized by having an improved thermo-stability.

2,159,368
ELECTRICAL CIRCUIT BREAKER

Oakley K. Beckler, Dallas, Tex., assignor of twenty-two and one-half per cent to Marion H. Rowe, Dallas, Tex., and seventy-two and one-half per cent to Joseph H. Reynolds, Cisco, Tex., and five per cent to Jack A. Schley, Dallas, Tex.

Application September 2, 1936, Serial No. 99,071
13 Claims. (Cl. 200—116)

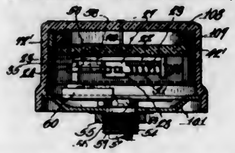


1. A circuit breaker for engagement within an electrical receptacle including, an insulating block, electrical contacts mounted on said block, a bi-metallic element normally engaging the contacts to electrically connect the same, means for effecting a disengagement of said element from said contacts when said element is heated due to overload or short circuit, means for re-engaging said element, and means mounted on the block and connected in the circuit for breaking the electrical circuit to the contacts during the re-setting of said element.

2,159,369
ELECTRIC SWITCH AND THE LIKE

Arthur M. Draving and William Irwin Ingham, Philadelphia, Pa., assignors, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana

Application February 27, 1931, Serial No. 518,836
4 Claims. (Cl. 201—55)

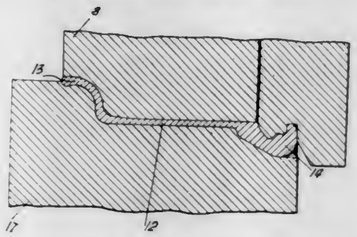


1. In a composite potentiometer, volume control, tone control or rheostat with a switch, a casing, a susbtantially cylindrical resistance strip within the casing, a contact touching the strip and movable with respect to it, a switch within the casing and the strip and connection between the contact and the switch adapted to throw the switch in one position of the contact.

2,159,370
MANUFACTURE OF NUCLEAR ALKYLATED ANILINES
Robert R. Dreisbach, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 29, 1937, Serial No. 133,644
10 Claims. (Cl. 260—581)

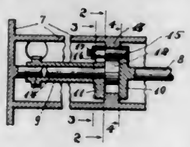
1. The method which comprises reacting an alkylated halobenzene, having an alkyl radical in a position meta to the halogen atom, with ammonia to form the corresponding nuclear alkylated aniline.

2,159,371
METHOD OF MAKING STEEL SECTIONS
Winfield S. Brink, Akron, Ohio, assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original application January 16, 1935, Serial No. 2,041, now Patent No. 2,149,757, dated March 7, 1939. Divided and this application August 16, 1935, Serial No. 36,538
3 Claims. (Cl. 29—159.1)



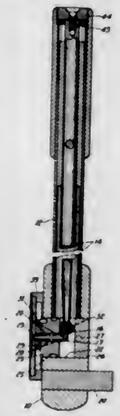
1. The method of making tire rims which comprises hot rolling a steel bar to form a web that is relatively heavy and stiff along one marginal portion and has a portion from adjacent its longitudinal center line to its opposite margin bent downwardly on an angle below its normal plane, bending said web longitudinally and joining the ends thereof in such a manner as to produce a ring, the portion that includes the heavy marginal portion being substantially cylindrical in shape and the other portion of the web defining a frusto-conical figure, and then cold rolling the ring to cylindrical shape by drawing the frusto-conical portion outwardly.

2,159,372
SPEED-CHANGING ADAPTER FOR MOTION PICTURE CAMERAS
Fritz Brosch, Los Angeles, Calif.
Application April 27, 1938, Serial No. 204,590
3 Claims. (Cl. 74—63)



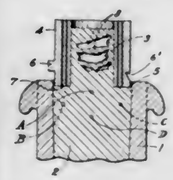
1. In a motion picture camera, in combination with the film-advancing means, an actuating shaft having a cam involving a radially disposed slot, a stationary control-cam involving oppositely disposed parallel faces forming a channel, an actuated shaft having a cam involving a slip-slot, and a pin having a flattened and shouldered portion slidingly mounted in the slot of the cam of the actuating shaft and extending into said channel and slip-slot so as to transform each of the rotating movements of the actuating shaft into distinct retarded and advancing movements on the actuated shaft.

2,159,373
TORQUE WRENCH
Allen I. Dunn, Cedar Rapids, Iowa, assignor to Cedar Rapids Engineering Company, Cedar Rapids, Iowa, a corporation of Iowa
Application April 10, 1937, Serial No. 136,048
14 Claims. (Cl. 265—1)



1. In a torque wrench, a head, an indicating mechanism associated with the head, a flexible hollow handle fixed to the head, and shaft means within the handle for actuating the indicating instrument in accordance with the movement of flexing of the handle.

2,159,374
HOT TOP
Arthur C. Estep, Waynesburg, Ohio, assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio, a corporation of Ohio
Application July 6, 1937, Serial No. 152,100
1 Claim. (Cl. 22—147)



A hot top having inner and outer annular wall portions embracing a voided portion therebetween, said voided portion comprising a plurality of non-radial, axially straight and continuous webs joining said wall portions and having parts extending generally circumferentially of said hot top, said webs and adjacent wall portions defining a plurality of narrow, circumferentially overlapping, axially straight voids each extending the full length of said hot top and together encircling the inner wall portion thereof.

2,159,375
MAKING LOW VISCOSITY CELLULOSE ETHERS
Richard D. Freeman and Martin J. Roberts, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 19, 1938, Serial No. 220,132
7 Claims. (Cl. 260—231)

6. The process which comprises subjecting an air-dry cellulose to the action of gaseous sulphur dioxide in quantity sufficient to saturate the residual moisture in the cellulose, aging the so-treated cellulose in the presence of sulphur dioxide gas, whereby the 1 per cent viscosity of the cellulose is reduced by at least one-half, converting the so-formed low viscosity cellulose to alkali cellulose, and etherifying the alkali cellulose, whereby there is formed a stable, low viscosity cellulose ether.

2,159,376
MAKING OF LOW VISCOSITY CELLULOSE ETHERS
Richard D. Freeman and Martin J. Roberts, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 19, 1938, Serial No. 220,133
4 Claims. (Cl. 260—231)

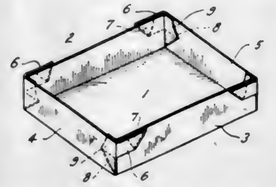
1. The process which comprises subjecting an air-dry cellulose containing less than 10 per cent residual moisture to the action of substantially anhydrous chlorine gas in quantity sufficient to saturate the said residual moisture in the cellulose, aging the so-treated cellulose in the presence of chlorine gas whereby the intrinsic viscosity of the cellulose is substantially reduced, converting the so-formed low viscosity cellulose to alkali cellulose, and immediately etherifying the alkali cellulose, whereby there is formed a stable, low viscosity cellulose ether.

2,159,377
MAKING LOW VISCOSITY CELLULOSE ETHERS
Richard D. Freeman and Martin J. Roberts, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 19, 1938, Serial No. 220,134
9 Claims. (Cl. 260—212)

1. The process which comprises subjecting an aggregate of air-dry cellulose fibers to the action of anhydrous gaseous hydrogen halide under such conditions that the moisture content of the cellulose becomes substantially saturated with respect to said hydrogen halide, maintaining the cellulose and hydrogen halide in contact with one another to effect a reduction in the intrinsic solution viscosity of the cellulose and subjecting the acid-treated cellulosic aggregate to the action of substantially anhydrous ammonia, whereby the remaining acid is neutralized and the cellulose is stabilized against further viscosity reduction.

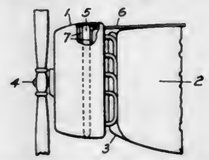
2,159,378
FOLDING BOX
Roderick W. Hoag, Melrose, Mass.
Application October 16, 1936, Serial No. 105,982
3 Claims. (Cl. 229—31)

1. A folding box comprising a bottom, upright front and rear walls and end walls, the said end walls being provided at each end thereof with an extension and each extension being provided with a flap folded against said extension on a line radiating substantially from the apex of the corner of the bottom and secured to the outside surface



of the corresponding front or rear wall; a bellows fold element at each corner of the box being integral with a portion of the end edge of the end wall and with the corresponding end edge of the front or rear wall, one surface of said bellows fold element being secured to the inside surface of the end wall, substantially as described.

2,159,379
RADIO ANTENNA
Lawrence A. Hyland, Washington, D. C., assignor, by mesne assignments, to Bendix Radio Corporation, New York, N. Y., a corporation of Delaware
Application December 19, 1935, Serial No. 55,256
1 Claim. (Cl. 250—33)

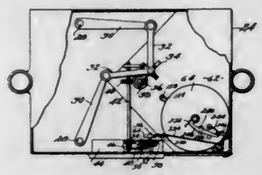


An antenna for aircraft comprising a coil of conducting turns adapted to intercept signaling energy, a tubular metal casing formed into a split ring for enclosing said coil of conducting turns, insulation means for insulating the turns of said coil from said metal casing, a metallic streamlining member surrounding the outer extremities of the cylinders of a radial aircraft engine, said streamlining member being formed into a split ring, insulation means attached to the ends of said split streamlining member and means for supporting said coil of conducting turns in said streamlining member to permit said coil of conducting turns to intercept signaling energy.

2,159,380
CHRONOLOGICAL GAS-RECORDING APPARATUS
Carrie M. Hyle, Kansas City, Mo.
Application September 23, 1935, Serial No. 41,697
5 Claims. (Cl. 73—232)

1. A chronological gas recording apparatus comprising a rotatably mounted cylindrical chart; means including a governor controlled spring adapted to rotate said chart at a uniform rate of speed; a gas meter having a tangent arm and an index arm driven thereby; means operable by the tangent arm of said gas meter to wind said spring; means controlled by said spring to make said spring winding means ineffectual when the spring is in the substantially wound position; and a stylus, associated with said chart

and means operable by said index shaft of said gas meter to operate said stylus, to record on said chart, unit volumes of gas passed through said gas



meter; and means operable by said chart rotating means to move said stylus in accordance with time.

2,159,381
WASHING COMPOSITION
Kurt Jochum, Frankfort-on-the-Main, Hermann Geier, Zittau, and Karl Pauser, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 4, 1934, Serial No. 746,924. In Germany September 4, 1931
9 Claims. (Cl. 87—5)

1. A washing composition consisting of a water-soluble salt of pyrophosphoric acid and a wetting and cleansing compound of the following formula:

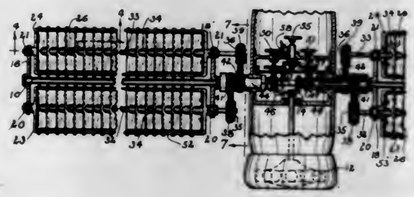
$$R—X—SO_3Me$$

wherein

X stands for $—O—$, $—N(H)—R_1—$, $—N(R_2)—R_1—$, $—CH_2O·R_1—$, $—COO·R_1—$, $—CON(H)·R_1—$, $—CON(R_2)·R_1—$,

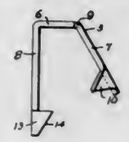
R stands for an aliphatic hydrocarbon radical with at least 7 carbon atoms,
R_1 and R_2 represent a member of the group consisting of aliphatic and aromatic hydrocarbon radicals,
Me stands for an alkali metal atom or ammonium.

2,159,382
ANGULARITY ADJUSTING MEANS FOR FEATHERING ROTORS AND THE LIKE
James L. John, South Colby, Wash.
Application November 3, 1937, Serial No. 172,617
3 Claims. (Cl. 170—150)



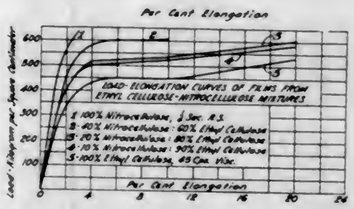
1. The combination with a rotary driven shaft having fixed journal arms, an adjusting shaft journaled in said arms, and a frame fixed to revolve about the driven shaft, of a series of blades pivoted in said frame, stops rigidly mounted on the frame in the path of movement of the blades to limit one movement thereof and adjoining blades having overlapping arrangement to limit movement in the other direction, and means actuated by the driven shaft for rotating the adjusting shaft.

2,159,383
SLIP COVER INSTALLATION AND FASTENER FOR THE SAME
Walter I. Jones, Arlington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 13, 1937, Serial No. 136,663
1 Claim. (Cl. 24—259)



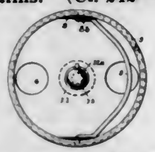
A substantially U-shaped bendable clip member formed from a single piece of soft metal and comprising a base portion, spaced upper and lower flange portions extending from said base portion, attaching prongs extending from said upper flange toward said lower flange, said lower flange having attaching prongs extending from its edges toward said upper flange, said prongs having broad surfaces lying in parallel planes one with another and in the line of pull exerted on said prongs when said clip is attached, said planes being in substantially perpendicular relation to the plane of said base portion, and each of said prongs having a narrow edge slanting upwardly from a point substantially adjacent said lower flange at the outer end of said prong toward the highest point of said prong thereby making it easy to guide said prongs between two parts when said lower flange is inserted between them.

2,159,384
ETHYL CELLULOSE-NITROCELLULOSE COMPOSITION
Toivo A. Kauppi, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application June 23, 1937, Serial No. 149,943
6 Claims. (Cl. 134—79)



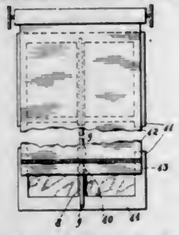
4. A composition of matter comprising between about 40 and about 20 parts of nitrocellulose, a 5 per cent solution of which in a mixture of 40 parts butyl acetate, 30 parts toluene, and 30 parts ethanol, by volume, has a viscosity between about 2.5 and about 10 centipoises; between about 60 and about 80 parts of ethyl cellulose, a 5 per cent solution of which in the same solvent mixture has a viscosity between about 10 and about 75 centipoises; a plasticizer; and a resin, all dissolved in a common solvent for the two aforesaid cellulose derivatives, wherefrom may be deposited films of the mixed cellulose derivatives capable of at least three times as great an elongation under tension as the nitrocellulose alone and having a tensile strength at least as great as the ethyl cellulose alone.

2,159,385
WINDING MACHINE
Frederick J. Kent, Glen Rock, N. J., assignor to Sipp-Eastwood Corporation, Paterson, N. J., a corporation of New Jersey
Application January 22, 1938, Serial No. 186,289
6 Claims. (Cl. 242—118)



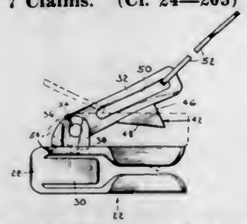
1. A wound-mass core structure including a barrel member, a member forming a core proper and arranged in telescoped receiving relation to and movable on the barrel member, and an elastic element spanning the core structure with its ends spaced from each other circumferentially of said structure, said element releasably interlocking the members together.

2,159,386
GUIDE
Alfred Norbert Kettner, Los Angeles, Calif.
Application June 16, 1937, Serial No. 148,538
Renewed March 27, 1939
3 Claims. (Cl. 156—26)



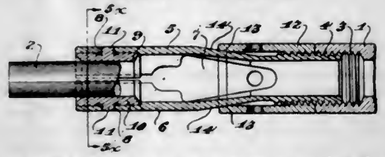
3. In a guide for window shades, a guide bar having guiding means along the opposite edges, and a slide member provided with means to engage over said edges for sliding engagement with the guide bar and having means to pivotally engage with the shade of a window for maintaining the shade in a desired path while being wound and unwound.

2,159,387
LOCKING SLIDER FOR SLIDE FASTENERS
Ogden Killmer, Hasbrouck Heights, N. J.
Application February 27, 1937, Serial No. 128,172
7 Claims. (Cl. 24—205)



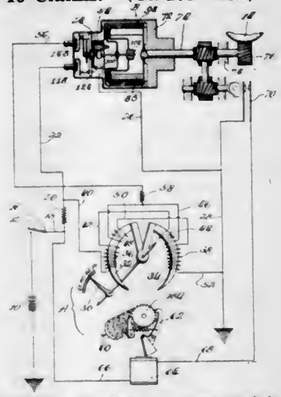
7. In a slide fastener comprising stringers having confronting edges provided with interlocking elements, a slider for engaging and disengaging the elements of said stringers having an upper wing provided with an opening therethrough, spaced lugs secured to said upper wing and upstanding from the upper surface thereof, a flat locking member pivotally connected adjacent one end thereof to and between said lugs and extending edgewise longitudinally of the slider over said upper wing centrally between the side edges thereof, said locking member having a slot extending longitudinally of said locking member and disposed between the opposite longitudinally extending edges of the locking member, a locking prong carried by and depending from said locking member for projection through said opening in the slider wing and a pull member pivotally connected to said locking member and slidable longitudinally of the slider in said slot.

2,159,388
FEED FINGER FOR SCREW MACHINES
Oscar Klute, Rochester, N. Y.
Application December 23, 1937, Serial No. 181,391
2 Claims. (Cl. 29—62)



1. A feed finger for a screw machine having two resilient jaws on one end and a male screw thread on the other end, a sleeve threaded on said male thread of the finger, said sleeve being tapered internally on one end and being adapted to engage the jaws of the feed finger with that end to draw them together, a feed tube having a female screw thread therein in which the male thread of the feed finger engages, the threaded end of the feed finger being adapted to be screwed into the threaded end of the feed tube until the end of the sleeve and the end of the feed tube are brought firmly together, by which the sleeve and jaws of the feed finger are locked in position.

2,159,389
ELECTRIC SPEEDOMETER
Arden W. Le Fevre and Thorolf Paul, Chicago, and George E. Coxon, Cicero, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 14, 1935, Serial No. 40,600
19 Claims. (Cl. 175—183)



1. An electric speedometer comprising an indicator, armature means for moving said indicator, a pair of opposed electromagnets for moving said armature means in opposite directions,

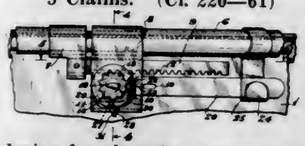
means for providing said magnets with currents having variable relationships, a part rotating in definite relationship to the speed of a vehicle, and magnetically-controlled mechanism operated by said part for controlling said last-named means.

2,159,390

RECEPTACLE AND CLOSURE THEREFOR

William Lockhart, Cleveland, Ohio, assignor to Cornell Securities Corporation, Cleveland, Ohio, a corporation of Delaware

Application December 5, 1935, Serial No. 53,006
5 Claims. (Cl. 220—61)



1. A device for clamping a cover on the open end of a receptacle including a split locking ring having portions engaging the cover and the receptacle to press the same together in fluid tight sealed relation when the ring is contracted, brackets extending from the ends of the ring defining the split and means for contracting and/or expanding the ring including a rotatable driving member carried by one of the brackets, a driven member carried by another of said brackets, and a lever carried by said driving member, said driving member and said lever having interfitting portions and said lever being pivotally supported on the driving member whereby the lever and driving member may be engaged or disengaged to effect or release a driving connection between the same.

2,159,391

PROCESS FOR POLISHING OF SPINNERETTES

Wilhelm Martin, Oberbruch, Bez. Aachen, Germany, assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application May 4, 1936, Serial No. 77,897. In Germany May 7, 1935
6 Claims. (Cl. 51—278)

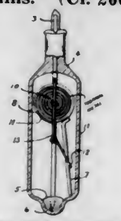
1. In a process for the polishing of spinnerettes having extrusion openings formed herein the steps comprising filling the said openings with a molten substance, allowing the substance to harden therein, then polishing the spinnerette, and removing the said substance from said openings.

2,159,392

ELECTRIC SWITCH

Ira E. McCabe, Chicago, Ill.

Application August 5, 1936, Serial No. 94,352
6 Claims. (Cl. 200—138)



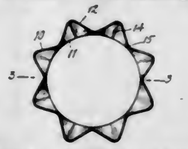
1. An electric switch including a sealed container, two electrodes sealed therein, a shaft, a disc mounted centrally upon said shaft, two coils of thermostatic metal responsive to radiant energy having their inner ends secured to said shaft with said disc interposed between the coils, the outer convolution of one of said coils secured to one of said electrodes, a continuation of said electrode connected with the outer convolution of the other coil to be movable therewith, and means for making and breaking an electrical connection between said electrodes when one of said thermostatic coils is exposed to the presence or absence of radiant energy, said two coils compensating for changes in ambient temperature and said disc shielding one coil and concentrating the rays of radiant energy upon the other coil.

2,159,393

SPRING WASHER

Frederick R. McCrudden, Bloomfield, N. J., assignor to The National Lock Washer Company, Newark, N. J., a corporation of New Jersey

Application September 10, 1936, Serial No. 100,078
1 Claim. (Cl. 151—38)



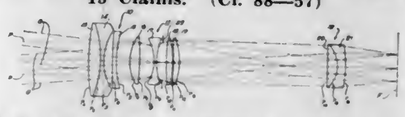
A spring washer, for interposition between a screw head or the like and a surface surrounding a screw receiving hole, comprising a ring of normally flat thin pliable spring metal having bends alternately projecting upwardly and downwardly along radial lines, the bending starting at the inner edge of said ring and gradually increasing to the outer edge, whereby said inner edge is in a flat plane and circular and said outer edge is undulating and of the same lineal extent as the outer edge of the normally flat ring, said bends being in continuously straight lines between said inner and outer edges, said inner edge of the ring adapted to seat upon said hole surrounding surface to constitute a fulcrum line about which the inwardly and outwardly projected surfaces of the bends respectively move into straight line engagement with the surface of said screw head and said hole surrounding surface, and said inner edge being of the same diameter and circular shape in both the flat and bent conditions of said washer.

2,159,394

VARIABLE EQUIVALENT FOCAL LENGTH LENS

Lewis L. Mellor and Arthur Zaugg, Los Angeles, Calif., assignors to Paramount Productions, Inc., Los Angeles, Calif., a corporation of Delaware

Application June 9, 1936, Serial No. 84,304
13 Claims. (Cl. 88—57)



1. In a variable equivalent focal length lens, the combination of a front negative member, and a back member axially movable with relation to the front negative member consisting of relatively movable forward and rearward components of positive power in combination, means for supporting and axially moving said negative member and said positive member components

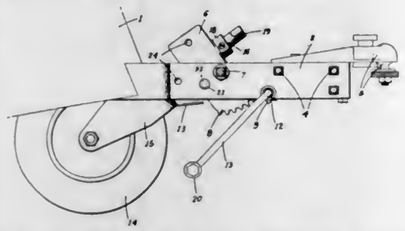
with reference to each other in a predetermined relation in such manner as gradually to increase or decrease the focal length of the combination, means for adjusting the separative distance between the front negative member and the forward component of the positive independently of the separative distance between the two components of the positive member, and means for adjusting the separative distance between the two components of the positive member independently of the separative distance between the front negative member and the forward component of the positive.

2,159,395

TRAILER CONTROL

Charles J. Mersereau, Sacramento, Calif.

Application June 29, 1938, Serial No. 216,512
4 Claims. (Cl. 280—33.4)



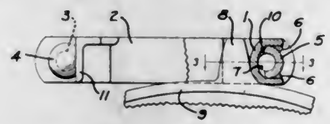
4. A trailer tongue control assembly comprising a supporting member, means to pivot the member on the tongue for swinging movement in a vertical plane, means to so swing the member, and a swivel wheel unit below and including a spindle journaled in the member; said member being adapted to swing in a direction to raise the wheel rearwardly and upwardly and the tongue comprising plates between which the member is disposed and spaced apart a sufficient distance in the plane of upward movement of the wheel to receive a portion of said wheel therebetween when the wheel is raised.

2,159,396

CONVEYER CHAIN

Robert S. Miller and Hans Hansen, Portland, Oreg., assignors, by mesne assignments, to W. A. Deming, Bellingham, Wash.

Application March 26, 1938, Serial No. 198,235
9 Claims. (Cl. 198—168)



1. A drag chain formed of a plurality of U-shaped links each having two spaced side bars each apertured at both ends, and a connecting cross bar constituting a barrel, said barrel comprising a channel shaped element connecting and secured at its ends to the opposite side bars, and having a convex surface facing towards a drive sprocket, a stiffener element extending between the side bars, disposed within and closing the open side of the channel, and secured to the latter to reinforce it, the through passage thus defined registering with apertures at one end of the side bars, and a pin received in such passage and apertures, and in registering apertures in the open end of an adjoining link, to connect the two together.

2,159,397

CONTINUOUS PROCESS FOR CONVERTING SAPONIFIABLE FATS INTO SOAP AND GLYCERIN

Victor Mills, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

Application February 18, 1936, Serial No. 64,525
2 Claims. (Cl. 260—415)

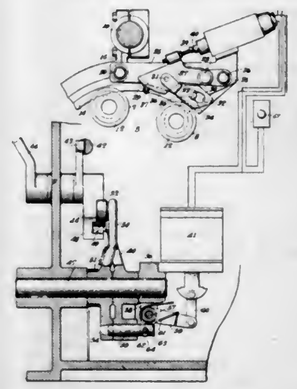
1. That method of preparation of soap, which consists in continuously forming fatty acids from fats at high temperature and pressure by hydrolysis using an excess of water over that required for hydrolysis and by control of temperature during hydrolysis controlling the water dissolved in the resulting fatty acid to a definite percentage, then without substantial reduction of temperature and pressure or exposure of the fatty acids to oxidation combining said fatty acids with alkali solutions in combining proportions and containing a definite percentage of water the total combined water being not more than will form a neat soap, said fatty acids and alkali being maintained in a state of flow, and finally discharging the resulting soap at a temperature between 250 to 400 degrees F. into a zone of lower temperature and pressure.

2,159,398

STOP MECHANISM FOR BAR MACHINES

Donald H. Montgomery, West Hartford, and William B. Retz, Plainville, Conn., assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut

Application October 25, 1935, Serial No. 46,662
Renewed April 13, 1938
31 Claims. (Cl. 29—37)

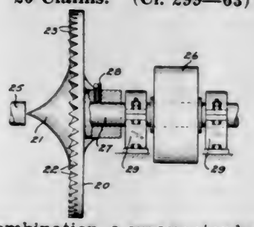


1. In a bar machine, an indexible spindle carrier having a plurality of spindles indexible therewith, a feed tube for each spindle for feeding bar stock therein, means for moving said feed tube to an abnormal position when disengaged from the butt end of a bar of stock, control means actuable by said feed tube in abnormal position upon an indexing movement thereof, and delayed action means controlled by said control means for stopping said bar machine at a predetermined point in the cycle.

2,159,399
STABILIZATION OF CELLULOSE ETHERS
Floyd C. Peterson, Syracuse, N. Y., and Howard N. Fenn, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 9, 1937, Serial No. 178,885
4 Claims. (Cl. 260—232)

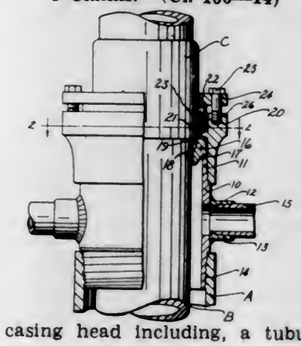
1. The process which comprises treating a slightly alkaline aqueous suspension of a cellulose ether with an amount of formaldehyde equal to between 15 and 40 per cent of the weight of the cellulose ether, and heating the mixture in a closed vessel at a temperature between 100° and about 170° C., to produce a cellulose ether of improved thermostability.

2,159,400
SPRAYING APPARATUS
Everett A. Preston, Wausau, Wis., assignor to D. J. Murray Manufacturing Co., Wausau, Wis., a corporation of Wisconsin
Application June 21, 1937, Serial No. 149,297
20 Claims. (Cl. 299—63)



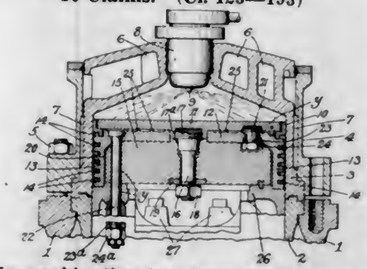
13. In combination, a spray rotor having a central cone the base of which terminates in a plane disposed approximately perpendicular to the rotor axis, and also having an annular series of projections and intervening recesses forming an annular continuous serrated surface directed away from said axis and disposed substantially in said base plane, the serrations being of gradually increasing magnitude approaching the rotor periphery and said projections having smooth top surfaces of gradually diminishing width extending from the periphery of the cone base to the rotor periphery, and means for directing a single solid jet of liquid against the apex of said cone in line with the rotor axis.

2,159,401
CASING HEAD
Laurence L. Rector, Fort Worth, Tex.
Application July 19, 1937, Serial No. 154,411
5 Claims. (Cl. 166—14)



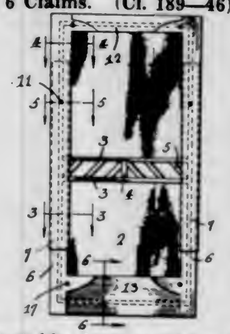
1. A casing head including, a tubular body adapted to be mounted on a well casing and having a well tubing extending therethrough, removable means resting on the upper end of the body for supporting the tubing within the body and casing, a collar mounted on the upper end of the body and extending upwardly above the tubing supporting means, an internal flange within the bore of the collar immediately overhanging and confining said supporting means to prevent upward displacement thereof, a packing element within the bore of the collar resting on the flange and surrounding the tubing for packing off around said tubing, and means attached to the collar for deforming the packing element into sealing engagement with the tubing.

2,159,402
PISTON
Curt Retschy, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application February 1, 1939, Serial No. 254,081
In Switzerland January 29, 1938
10 Claims. (Cl. 123—193)



1. In combination in a built-up piston, a main piston bell having an outer end member and a skirt, a separate surface member of highly heat-resistant material positioned on the outer end of said piston and defining the outer end surface of the piston, and a core member of highly heat-conductive material positioned within the said piston, and means for securing the three together in heat transfer relation, said means permitting relative radial movement of the three.

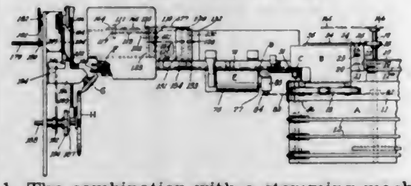
2,159,403
ADJUSTABLE DOOR
Joseph Rivard, Montauban-les-Mines, Quebec, Canada, assignor of one-half to Adelard Gravel, Quebec, Quebec, Canada
Application June 18, 1936, Serial No. 85,955
In Canada December 17, 1935
6 Claims. (Cl. 189—46)



1. An adjustable door comprising a panel, a

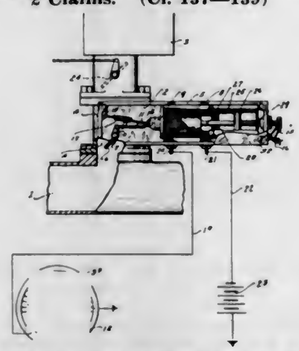
longitudinally adjustable upright at each side thereof and including two hollow members longitudinally telescoped one within the other for lengthwise adjustment, the vertical edges of said panel being received loosely and freely in said uprights, means for securing the telescoped members together, upper and lower members joining the ends of said uprights, and means for adjustably securing said last named members to said uprights.

2,159,404
TOBACCO LEAF FEED
Rupert E. Rundell, Rockville Centre, and Joseph A. Neumair, Hollis, N. Y., assignors to International Cigar Machinery Company, a corporation of New Jersey
Application December 23, 1936. Serial No. 117,322
27 Claims. (Cl. 131—60)



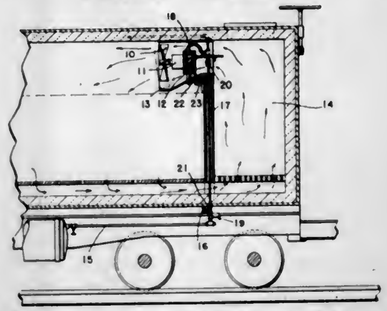
1. The combination with a stemming machine periodically operating to seize a stem butt presented within its range of action and thereupon advance and stem the seized tobacco leaf, of mechanism for continuously separating tobacco leaves from a bunch and advancing them toward said machine, means operating in synchronism with said machine for transferring a leaf at regular intervals from said mechanism into the range of action of said machine, and a device for stopping said mechanism only whenever there is a succession of leaves at the delivery end of the same with the spacing requisite for delivery during successive cycles into the range of action of said means and until the foremost leaf is removed thereby.

2,159,405
SPEED LIMITING DEVICE
Homer M. Schubert, Salem, Oreg.
Application February 25, 1938, Serial No. 192,659
2 Claims. (Cl. 137—139)



1. A speed limiting control for motor vehicles and the like, including a gas control valve arranged intermediate the normal throttle valve and intake manifold of the engine for controlling the passage of gas to the intake manifold, an electric coil supported adjacent the valve, a core within and operated by the coil, a connection between the core and valve to operate the valve toward closed position in the movement of the core responsive to the energization of the coil, a dash-pot aligned with the coil and including a piston connected to the core, and a screw rod mounted for threaded movement relative to and serving to limit the movment of the piston.

2,159,406
TEMPERATURE CONTROL
Kent Schwebs, Hortonville, Wis.
Application August 16, 1937, Serial No. 159,363
2 Claims. (Cl. 62—19)



2. In a refrigerator car, a body having side walls, a roof, an end wall, a floor, and a false bottom for said floor, a partition extending across the body adjacent the end wall terminating short of the roof defining an ice bunker in conjunction with the side and end walls, an air fan, a fluid-driven motor for operating said fan, said fan and motor being disposed directly above the partition, and means for impinging a blast of air against the blades of the air motor from an air train-line of the car.

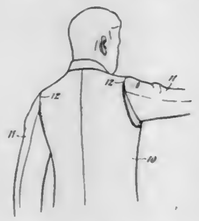
2,159,407
ATOMIZER
Richard H. Seaman and Albert Monk, Los Angeles, Calif.
Application October 9, 1936. Serial No. 104,807
3 Claims. (Cl. 128—173)



3. An atomizer structure comprising; an atomizer chamber adapted to contain a liquid for atomization; a siphon tube and an air tube in said chamber and coacting to form an atomizer nozzle disposed above the normal liquid level in said chamber; a check valve disposed in close proximity to the discharge end of said air tube to define therewith a chamber of rudimentary dimensions, whereby the contents thereof is immediately expelled therefrom during initial flow from said air tube; an elongated delivery tube

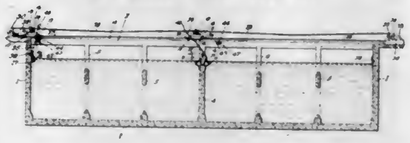
extending from said atomizer chamber, said delivery tube being of uniform diameter and bent intermediate its ends; and a reentrant nozzle at the extreme end of said delivery tube tending to entrap fluids passing along the walls of said delivery tube, said delivery tube being otherwise unobstructed.

2,159,408
COAT
Joseph Siegel, New York, N. Y.
Application August 13, 1936, Serial No. 95,829
4 Claims. (Cl. 2—93)



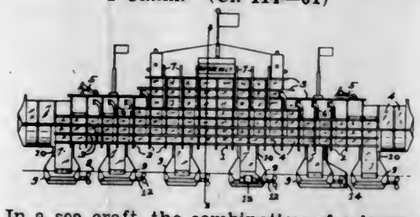
1. A coat including a body portion and a sleeve portion, an infolded pleat below the arm hole of the coat and connecting the body and sleeve portions to form an expansible connection therebetween, a front on the inner side of the outer garment layer below the arm hole of the coat, and means for preventing eversion of said pleat resulting from expansion of said connection, and including a limiting strip sewed at one edge to said front and at the other edge to one fold of the pleat, said strip being folded to form an expansion connection between said latter fold and said front in down position of said sleeve portion, and being unfolded to prevent complete unfolding of the pleat when said arm portion is raised to a predetermined position.

2,159,409
SCUM COLLECTOR
Marcus B. Tark, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application July 15, 1935, Serial No. 31,419
6 Claims. (Cl. 210—3)



3. A rectangular settling tank, an influent channel at one end, an effluent channel at the other end thereof, a scum trough adjacent the effluent end, means for concentrating the scum and discharging it from the effluent end comprising tracks arranged along and generally parallel with the effluent end, a carriage traveling back and forth on the tracks, a skimmer blade supported from the carriage, an incline leading to the scum trough, means for guiding the blade up the incline to force scum into the trough, means for holding the blade in position above the level of the liquid after it has forced scum into the trough, means for forcing the blade downwardly into the liquid as it reaches the end of its excursion away from the trough.

2,159,410
SEACRAFT
Stephen Turkovich, Pittsburgh, Pa.
Application May 21, 1937, Serial No. 143,990
1 Claim. (Cl. 114—61)



In a sea craft, the combination of a large enclosed cargo carrying superstructure, a plurality of comparatively small boats provided with propelling mechanisms joined with said superstructure and being disposed in a pair of longitudinally aligned rows at and laterally outward of respective sides of said superstructure, a pair of comparatively small boats provided with propelling mechanisms joined with said superstructure and being disposed at the longitudinal center of said superstructure adjacent to respective ends of the latter, said small boats supporting, and propelling said superstructure in spaced relation to the surface of the water, and a dual two-bladed rudder mechanism carried by the superstructure disposed intermediate of said pair of rows of laterally disposed small boats and adjacent to the rear boat of said pair of said centrally disposed small boats.

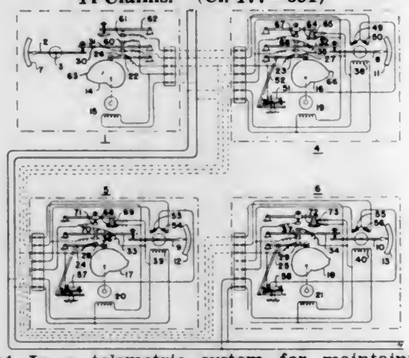
2,159,411
SULPHITE WASTE LIQUOR-PHENOL-ALDEHYDE CONDENSATION PRODUCTS
Fredrick J. Wallace, Brooklyn, N. Y., assignor to Robeson Process Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 11, 1935, Serial No. 26,074. In France July 9, 1931
10 Claims. (Cl. 260—57)

1. As an improvement in the manufacture of valuable condensation products from the characteristic solids of sulphite waste liquor, said products being soluble in alcohol but insoluble in water and in weakly alkaline aqueous solutions and being water-resistant and non-bleeding in water, the improved process which comprises mixing together the characteristic solids of sulphite waste liquor, a phenolic body and formaldehyde, heating the mixture to reaction temperature until said substances inter-react together to form a composite resinous body having said properties and recovering the resinous body thus produced, the said reactants being in such proportions and reacted under such conditions as to produce a resinous body having said physical properties and solubilities.

2,159,412
PROCESS RELATING TO THE PRODUCTION OF NICKEL CARBONYL
Albert Edward Wallis, Clydach, England, assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 28, 1937, Serial No. 161,420. In Great Britain September 9, 1936
4 Claims. (Cl. 75—82)

2. A method of preparing a reduced product containing nickel suitable for the preparation of nickel carbonyl by treatment with carbon monoxide under pressures of about 20 to 50 atmospheres and at temperatures of about 70° C. to 120° C., said method comprising sintering nickel matte in the presence of oxygen to produce a coarse granular sintered product containing nickel oxide, mixing said coarse granular sintered product with a reducing agent selected from the group consisting of solid and liquid carbonaceous reducing agents, and heating said mixture to reduce said nickel oxide whereby a granular sintered reduced product containing nickel is produced which is capable of storage in air without practical detriment to the subsequent extraction of the nickel by treatment with carbon monoxide under pressures of about 20 to 50 atmospheres and at temperatures of about 70° C. to 120° C.

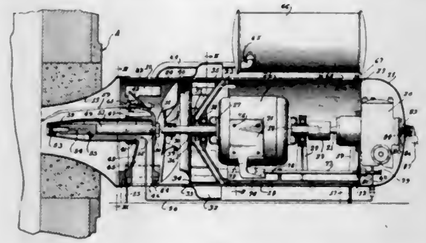
2,159,413
TELEMETRIC SYSTEM
Carl J. Weible, Cleveland, Ohio, assignor to Bailey Meter Company, a Delaware corporation
Application May 28, 1937, Serial No. 145,278
14 Claims. (Cl. 177—351)



14. In a telemetric system for maintaining agreement between the positions of a plurality of remote receiving members and the position of a transmitting member which is positioned between limits in correspondence with changes in the magnitude of a variable, in combination, a transmitting member displaceable toward and away from an initial position in correspondence to decreases and increases in the magnitude of a variable, a plurality of receiving members each displaceable toward and away from a corresponding initial position, means including means responsive to the position of said transmitting member for positioning one of said receiving members toward and away from its initial position to maintain the position thereof in correspondence with the position of the transmitting member, and means including means responsive to the position of said first named receiving member for positioning another of said receiving members toward and away from its initial position to maintain the position thereof in correspondence with the position of said first named receiving member.

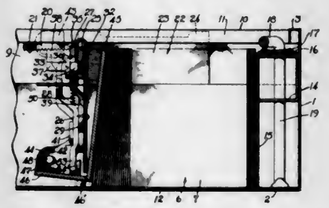
2,159,414
OIL BURNER
Roland E. Wilcox, Chicago, and Merton Wilcox, Palatine, Ill., assignors, by direct and mesne assignments, to Wilcox Heat Machine Company, Chicago, Ill., a corporation of Illinois
Application September 30, 1936, Serial No. 103,246
16 Claims. (Cl. 158—76)

1. An oil burner construction comprising an oil discharge nozzle, means for supplying oil to said nozzle under pressure, an air conducting casing around said nozzle having a discharge end adjacent the discharge end of said nozzle and an air inlet opening, a fan disposed in said casing for blowing air through said casing past said nozzle, a movably mounted valve member for



directing the inlet air to said fan, said valve member including means to control the air inlet opening, and means for moving said valve member to adjust the size of said inlet opening to vary the amount of air admitted to the discharge end of the air conducting casing.

2,159,415
FOLLOWER FOR VERTICAL FILES
Carl F. Wolters, Buffalo, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Application April 9, 1936, Serial No. 73,417
12 Claims. (Cl. 129—29)

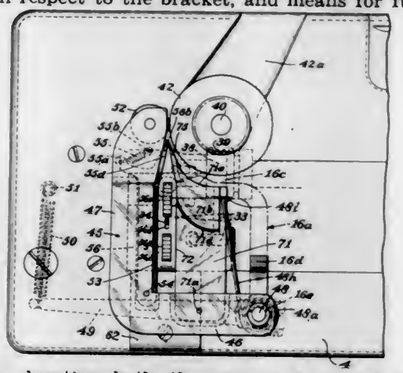


9. A card file, comprising a tray having side walls provided with guideways, a support extending transversely of said tray having means on opposite ends slidably engaged with said guideways for slidably mounting said support in said tray, a compressor plate movably mounted on said support, and manually operable means for engaging said tray and locking said support against sliding movement in said tray and moving said compressor plate into card compressing position.

2,159,416
FOLDING AND PRESSING ATTACHMENT FOR SEWING MACHINES
Thomas A. Anderson, Hartwell, Ga., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application June 12, 1937, Serial No. 147,980
17 Claims. (Cl. 112—217)

1. In combination with a sewing machine, an attachment secured thereto for folding and pressing the marginal edges of the fabric adjacent the seam, including driven and idle cooperating rollers located just beyond the needle, a bracket carrying spreader plates, the latter for deflecting the marginal edges in a vertical position to be received by the rollers, a presser foot cooperating with the spreader plates of the

bracket, means for elevating the presser foot with respect to the bracket, and means for further elevating both the presser foot and the bracket for easy insertion of the fabric.

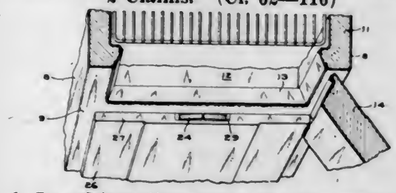


2,159,417

REFRIGERATION APPARATUS

William B. Anderson, West Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 28, 1937, Serial No. 145,175
2 Claims. (Cl. 62—116)



1. In refrigeration apparatus, the combination of a refrigerator cabinet embodying an upper food storage compartment and a lower machinery compartment, an access door for said food storage compartment, said cabinet having vertically extending front and side walls and an intermediate substantially horizontally extending surface located on the front wall near the bottom portion of the food storage compartment, a refrigerant condensing unit disposed in the machinery compartment, a control for automatically starting and stopping the condensing unit so as to maintain a desired refrigerated temperature in the food storage compartment, and a manually operated member for adjusting the control so as to obtain maintenance of different desired temperatures in the food storage compartment, said manually operated member being concealed behind the front wall of the cabinet beneath the food storage compartment and said intermediate horizontally extending surface having an opening provided therein for affording access to the adjusting member from above, said manually operated member being adjustable only when said access door is open.

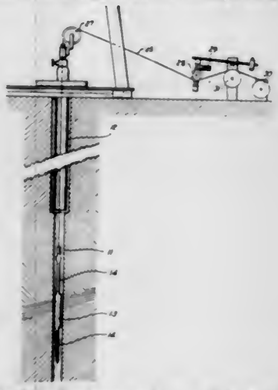
2,159,418

ELECTRICAL LOGGING APPARATUS

Earl Babcock, Duncan, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.

Application October 19, 1936, Serial No. 106,351
1 Claim. (Cl. 175—182)

An arrangement for electrically logging an oil well or the like, including a cylindrical casing, a pair of electrodes, one mounted on each end of said casing, and electrical devices and an indicating instrument mounted within said casing, the entire electrical apparatus being self-contained and adapted to be lowered into the well as a unit to measure and indicate an electrical property of the formation of the well located between said electrodes.

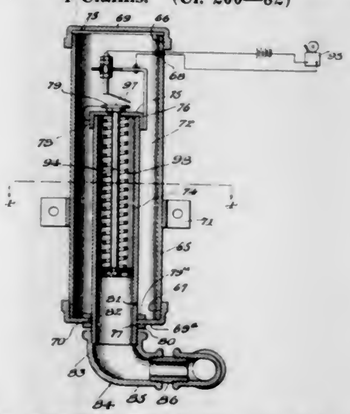


2,159,419

ELECTRICAL SIGNAL OPERATING DEVICE

Roy Bearss and Clifford E. Anderson, Shelby, Mich.

Application November 7, 1936, Serial No. 109,790
4 Claims. (Cl. 200—82)



1. In a hydraulic pressure operated closing structure for an electric circuit and of that type including an expansion chamber into which extends the conductors of the circuit and an upstanding open top cylinder within and for communication with said chamber and a hydraulic pressure supply, the combination of an axially apertured cap of conducting material for closing the open top of the cylinder, a spring controlled hydraulic pressure operated piston structure for positioning within the cylinder, said structure extending through said cap and provided at its outer end with a head carrying a circuit closer electrically connected to said cap, an upstanding suspension of conducting material integral at its lower end with the cap, a terminal for one of said conductors electrically connected to said suspension, a resilient contact normally clear of and for engagement by said closer for closing the circuit on the operation of the piston structure by hydraulic pressure, and a terminal for the other conductor of the circuit carried by and insulated from said suspension and having attached thereto said contact.

2,159,420

APPARATUS FOR COLOR CINEMATOGRAPHY

André Blondel, Paris, France

Application June 8, 1935, Serial No. 25,655
In France June 11, 1934
5 Claims. (Cl. 88—24)



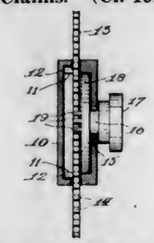
1. Apparatus for copying by projection photographic lenticular films, comprising a support for an original film, a support for a copy film, a source of light for illuminating the original film, a copying objective for projecting the record on the original film onto the copy film, a first relatively weak concentrating lens adjacent the support for the original film adapted to produce in the plane of symmetry of the copying objective an image of the source of light, a second relatively weak correcting lens adjacent the support for the original film for making the axes of the elementary beams emanating from an original film having a zone of natural convergence lying outside said objective intersect in said objective, and a third relatively weak lens of equal and opposite curvature to that of said second lens arranged on the side of the said support for the original film opposite to the said second lens for compensating for the disturbing effect of said second lens on the concentration of the light rays produced by said first lens.

2,159,421

AUTOMATIC LOAD LOCK

Harry B. Bryson, Los Angeles, Calif.; Nancy McClung Bryson, administratrix of Harry B. Bryson, deceased, assignor of one-half to Clayton Van Ike, Los Angeles, Calif.

Application September 27, 1935, Serial No. 42,467
10 Claims. (Cl. 192—8)



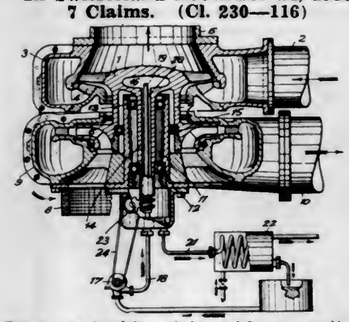
1. In a device for actuating rods or the like and for holding same in position after movement, a plate provided with an aperture, a shaft passing through said aperture, means carried by said shaft for engaging the member to be actuated, a disc carried by said shaft and having a definite axis of rotation, the periphery of which disc is adapted to constantly contact said plate and by automatic pressure at the end of any movement, to instantly lock the actuated member after it has been moved into any desired or accidental position and means for imparting rotary movement to said shaft.

2,159,422

GAS TURBINE DRIVEN BLOWER

Alfred Buchi, Winterthur, Switzerland

Application November 16, 1937, Serial No. 174,878
In Switzerland November 24, 1936
7 Claims. (Cl. 230—116)



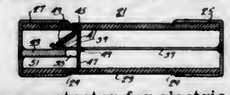
1. In a gas turbine driven blower unit, for use with hot gas delivering apparatus, particularly internal combustion engines, a turbine rotor and a blower rotor coaxial with said turbine rotor, said rotors being axially spaced apart from each other throughout their entire extent, a hollow shaft connecting member of relatively small cross-sectional area interconnecting said rotors for transmitting the torque set up therebetween while allowing individual expansion of said rotors independently of each other in any direction but allowing only relatively small heat transfer to take place from the turbine side of the blower side, said shaft having a freely accessible open end adjacent the relatively cool blower rotor, a bearing for said rotor system, and a bearing support projecting into said hollow connecting member through said open end for sustaining said bearing arrangement within said connecting member by supporting said bearing from outside said hollow shaft connecting member.

2,159,423

PROTECTOR FOR ELECTRIC CIRCUITS

Henry T. Bussmann, St. Louis, Mo.

Application October 5, 1936, Serial No. 103,991
32 Claims. (Cl. 200—135)



5. A unitary protector for electric circuits comprising a fuse link, electrically conducting means comprising a terminal contact face and a support for the link in permanently fixed low resistance thermal relation, thermally releasable means adapted to hold a portion of the link in electrical connection with said support, a member having a terminal contact face, fixed means for connecting another portion of the fuse link to said member, means adapted to move a portion of the fuse link substantially transversely to open the circuit when the holding means becomes releasable, said fuse link being substantially the sole source of heat for the holding means.

2,159,424

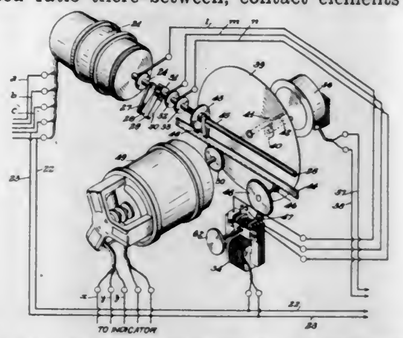
SHAFT SPEED INDICATOR

Ralph R. Chappell, Richmond, Va., and Rutger B. Colt and Robert J. Streb, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 9, 1936, Serial No. 78,928
11 Claims. (Cl. 177—351)

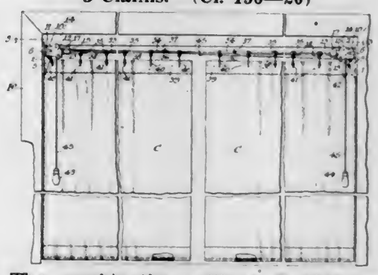
1. An indicating system, comprising a rotat-

able member, a second rotatable member, means for driving said second member, means for connecting said driving means to said second member including a pair of relatively movable friction elements, power means for moving one of said elements relative to the other to vary the speed ratio there-between, contact elements on



said members for rendering said power means responsive to the relative rotation of said members, means for relatively reciprocating said contact elements, and means movable in response to the movement of one of said friction elements to indicate the speed of rotation of said first member.

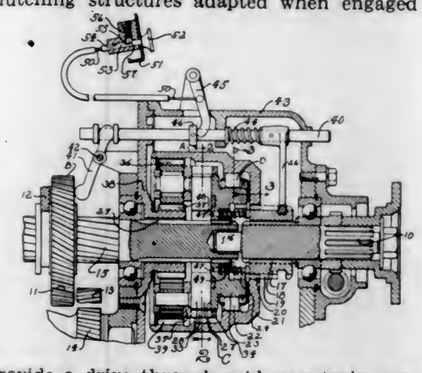
2,159,425
CURTAIN SUPPORT
Harrison H. Davies, The Plains, Ohio
Application November 29, 1937, Serial No. 177,114
3 Claims. (Cl. 156—20)



1. The combination with a flexible curtain supporting element and means for anchoring it at one end, of a combined attaching and tensioning means at the other end of said device, comprising a plate for attachment to a supporting structure, a socket member integral therewith, a tubular nipple adjustably mounted within and extending from the socket member, a slide within the nipple, one end of said flexible supporting member being extended into the nipple and anchored to the slide, an adjustable closure for one end of the nipple, a spring within the nipple and bearing at opposite ends against the closure and plug respectively.

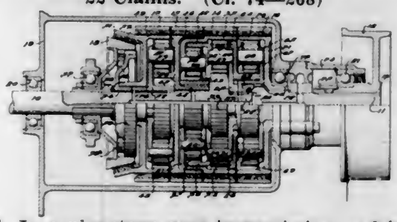
2,159,426
POWER TRANSMISSION
William T. Dunn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 6, 1936, Serial No. 67,426
9 Claims. (Cl. 74—260)

1. In a power transmission mechanism, a drive shaft, a driven shaft, means including a shiftable clutch device driven by one of said shafts and adapted to provide a direct drive between said shafts, means including a gear train for driving said driven shaft from said drive shaft at a speed ratio different from said direct drive, said speed ratio driving means including driving and driven members respectively adapted for driving connection with said shafts, said speed ratio driving means further including relatively movable clutching structures adapted when engaged to



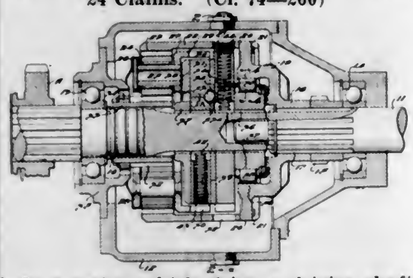
provide a drive through said gear train, manually operable means for shifting said clutch device into a position providing said direct drive, and a control pin operably disposed between said clutch device and one of said clutching structures for releasably locking said manually operable means against operation to shift said clutch device into position tending to establish said direct drive when said clutching structures are engaged.

2,159,427
POWER TRANSMISSION
William T. Dunn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 30, 1936, Serial No. 71,596
22 Claims. (Cl. 74—268)



1. In a planetary gear transmission, a driving shaft, a driven shaft co-axially arranged with respect to said driving shaft, a primary sun gear carried by said driving shaft, low speed planetary gears driven by said primary sun gear, a low speed annulus driven by said low speed planetary gears, a low speed carrier for said low speed planetary gears directly drivingly connected with said driven shaft for rotation at the same speed therewith, braking means adapted to arrest rotation of said low speed annulus for causing said primary sun gear to drive said driven shaft at low speed, a second speed sun gear co-axial with said driving shaft and rotatable independently thereof, a second speed annulus directly drivingly connected to said low speed carrier, second speed planetary gears drivingly engaged with said second speed sun gear and second speed annulus, a second speed carrier for said second speed planetary gears directly drivingly connected to said low speed annulus, braking means adapted to arrest rotation of said second speed sun gear with said low speed annulus released from its said braking means for causing said primary sun gear to drive said driven shaft in second speed, an overdrive sun gear co-axial with said driving shaft and rotatable independently thereof, an overdrive annulus rotatable independently of said driving shaft, overdrive planetary gears drivingly engaged with said overdrive sun gear and said overdrive annulus, an overdrive carrier for said overdrive planetary gears directly drivingly connected to said drive shaft, braking means adapted to arrest rotation of said overdrive annulus gear for causing said driven shaft to rotate at a speed greater than that of the driving shaft, and direct drive clutching means for drivingly connecting said driving shaft with said overdrive annulus gear, with all the aforesaid braking means released for causing said driving shaft to drive said driven shaft at the same speed.

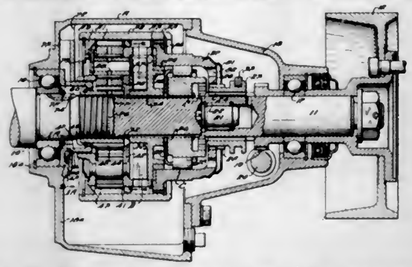
2,159,428
DRIVING MECHANISM
William T. Dunn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 15, 1936, Serial No. 74,400
24 Claims. (Cl. 74—260)



1. In a motor vehicle drive, a driving shaft, a driven shaft aligned therewith, speed responsive clutching means including positively engageable clutch elements drivingly connecting said shafts when rotatably synchronized for a direct drive therebetween and so constructed and arranged as to release said direct drive in response to a predetermined speed of said shafts, means including a planetary gear train intermediate said shafts for driving said driven shaft from said driving shaft at a speed ratio different from said direct drive, said intermediate driving means further including additional speed responsive clutching means including positively engageable clutching members so constructed and arranged in association with said gear train and one of said shafts as to automatically establish said speed ratio drive subsequently to operation of the first said clutching means in releasing said direct drive and in response to synchronization of the speeds of rotation of said clutching members, one of said clutching member being adapted for movement by centrifugal force relative to said clutching elements.

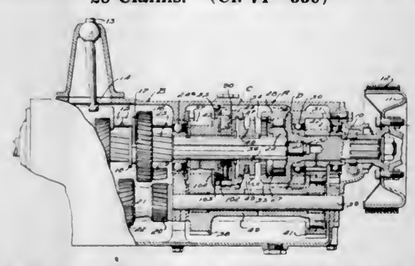
2,159,429
POWER TRANSMISSION
William T. Dunn, Augustin J. Syrovy, and Roy T. Bucy, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 24, 1936, Serial No. 107,428
19 Claims. (Cl. 74—260)

1. In a power transmission mechanism, a driving shaft, a driven shaft, means operably connecting said shafts for a direct drive therebetween, an internal gear concentrically surrounding said driving shaft, means providing a driving connection between said internal gear and said driven shaft, means for drivingly connecting said driving shaft with said internal gear for driving said driven shaft at a speed ratio different from



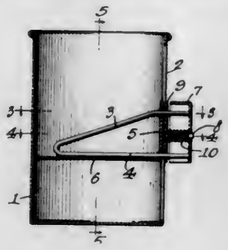
said direct drive, said speed ratio driving means including driving and driven clutching structures adapted to control said speed ratio drive, one of said clutching structures having a portion thereof rotatably journalling said internal gear connecting means, said clutching structure portion being continuously supported by and centered on one of said shafts.

2,159,430
DRIVING MECHANISM
William T. Dunn, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application January 18, 1934, Serial No. 707,047
28 Claims. (Cl. 74—336)



1. In a driving mechanism for a motor vehicle, power driving means, means driven by said power driving means and adapted to drive the vehicle, an overrunning clutch between said driving and driven means adapted to transmit a direct drive from said driving means to said driven means and to permit said driven means to overrun said driving means, supplemental driving means adapted for drivingly connecting said driving means and said driven means for driving said driven means from said driving means at a speed ratio greater than that provided by said overrunning clutch, clutch means including structures drivingly associated with said supplemental driving means for controlling the drive through said supplemental driving means, and manually controlled clutch means driven by one of the first two means aforesaid and adapted for selective positioning to drivingly connect said driving and driven means and to drivingly connect one of said clutching structures to one of the first two means aforesaid for selectively rendering said clutch means and said overrunning clutch ineffective.

2,159,431
MEASURING CUP
Orrin E. Dickeson, Cedar Rapids, Iowa
Application September 7, 1938, Serial No. 228,851
4 Claims. (Cl. 73—165)



1. A measuring cup including a longitudinally slotted container, a false bottom slidable therein, arms connected to the false bottom and slidable within the slot, a gripping plate fixedly connected to the arms and within the container, a gripping plate movably mounted on the outside of the container, a handle connecting the outer ends of the arms, and a compression spring interposed between the handle and the outer plate for holding the two plates normally clamped upon the slotted wall of the container.

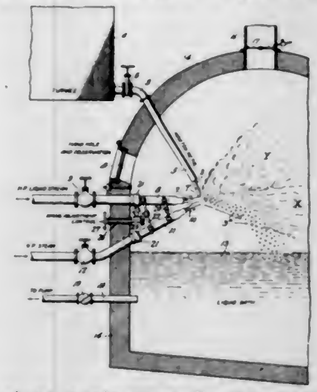
2,159,432
RETRACTABLE BRUSH
Waldo E. Enns, Los Angeles, Calif.
Application August 10, 1936, Serial No. 95,203
5 Claims. (Cl. 15—185)



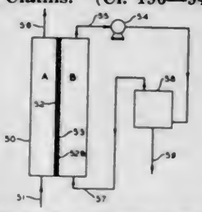
1. A retractable brush comprising an outside case, a plurality of brush bases slidably and pivotally positioned within the case, tufts of bristles mounted in each of the bases, means slidably mounted in the case, said means being engageable with the bases and moving them to extended position, said means being adapted to extend or retract the tuft from the case, said bases being substantially wedge-shaped in cross section, a second means including a wedge-shaped socket engaging the bases when the tufts are extended, thereby distending the tufts, said last named means disengaging the bases when the bases are retracted.

2,159,433
METHOD OF DISINTEGRATING METAL INTO SHOTTING
John F. Ervin, Ann Arbor, Mich.
Application January 5, 1938, Serial No. 183,539
12 Claims. (Cl. 83—91)

1. The improved method of disintegrating metal in production of metal shot or grit, which consists in discharging a molten stream of the metal onto a stream of liquid other than water and of an oil or oily character projected with pressure force thereunder, and supporting said liquid stream by a stream of gaseous fluid directed at an angle upwardly thereagainst also with pressure force.



2,159,434
PROCESS FOR CONCENTRATING HYDROCARBONS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 27, 1936, Serial No. 87,791
14 Claims. (Cl. 196—94)



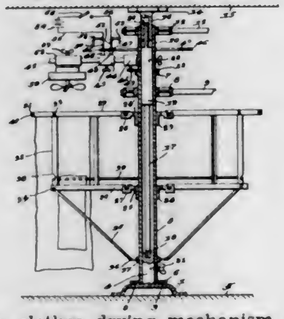
4. The method of separating from a hydrocarbon mixture a concentrate of desired hydrocarbons, comprising passing a stream of the hydrocarbon mixture in contact with one side of a non-porous diaphragm of a material in which the desired hydrocarbons have a greater solubility than the other constituents of the mixture, whereby the said desired hydrocarbons dissolve in and diffuse through said diaphragm, passing a stream of gas relatively insoluble in the diaphragm in contact with the other side of the diaphragm to sweep away and maintain a decreased partial pressure of the diffusate, and recovering the diffusate from the gas.

2,159,435
EAR AND FOREHEAD PROTECTOR
Treney P. Gribbin, San Antonio, Tex.
Application December 13, 1938, Serial No. 245,480
4 Claims. (Cl. 132—1)



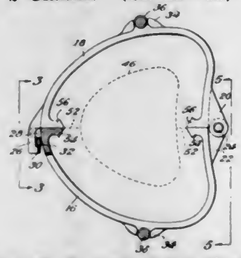
1. A device of the character described, comprising a body for extending across and covering a person's forehead, flaps at ends of said body for covering a person's ears, and loops for engaging about a person's ears carried by said flaps with their front ends united to forward portions of said flaps.

2,159,436
ROTATING CLOTHES DRIER
Ransaeller J. Jenks, Lewiston, Idaho
Application September 27, 1937, Serial No. 165,914
5 Claims. (Cl. 34—26)



3. In a clothes drying mechanism, a central standard provided with a revolving sleeve having radiating clothes racks thereon, and said standard having an air directing sleeve revoluble thereon and provided with adjustable air directing means adapted to be set at desired angles to direct air upon the clothes on said racks to dry the clothes and cause rotation of either of said sleeves to bring all the clothes into range of the air from said means, and devices for preventing rotation of either of said sleeves.

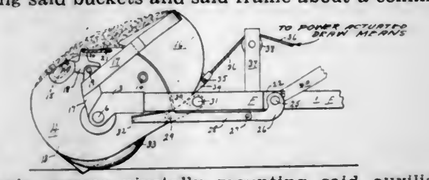
2,159,437
DENTAL FLASK
William D. Kirby, Arlington, Kans.
Application August 12, 1937, Serial No. 158,791
2 Claims. (Cl. 18—33)



1. A dental flask comprising three separable sections, means for holding the sections in assembled relation, one of said sections comprising two parts hingedly connected together, each of said parts having inwardly projecting wings arranged in abutting relation with the wings on the other part in the closed position of the parts, said wings being of such construction and arrangement as to rupture the plaster in the said one section when said parts are pivoted outwardly about their axis.

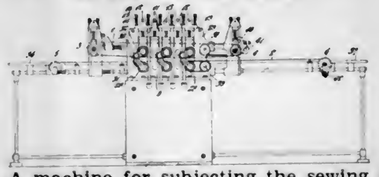
2,159,438
SCRAPER
Charles Le Bleu, Los Angeles, Calif.
Application July 29, 1935, Serial No. 33,633
3 Claims. (Cl. 37—129)

1. A device of the class described comprising, a frame adapted to be moved across the surface of the earth, a bucket, an auxiliary bucket disposed forwardly of said first mentioned bucket and arranged relative thereto to be loaded in conjunction therewith, means operably associating said buckets and said frame about a common



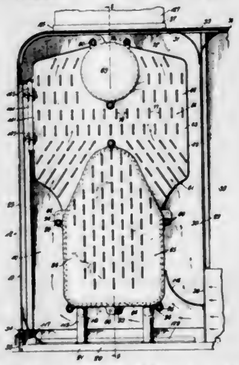
axis, means pivotally mounting said auxiliary bucket on the pivotal connection of said revolvable bucket with said frame and means operable to cause said device to assume operative and inoperative positions.

2,159,439
BOOKBINDING MACHINERY
Robert Leighton, London, England
Application October 26, 1938, Serial No. 237,121
In Great Britain November 4, 1937
12 Claims. (Cl. 11—1)



1. A machine for subjecting the sewing swell of books to pressure, comprising two series of rollers forming a plurality of pairs of pressure rollers, plates extending between adjacent rollers of each series, a travelling endless band having a reach which passes between the series of rollers and engages one series thereof and the plates extending therebetween, and a second travelling endless band having a reach which passes between the two series of rollers and engages the second series thereof and the plates therebetween.

2,159,440
SECTIONAL FURNACE
Allen P. Livar, Yonkers, N. Y., assignor to Reynolds Corporation, New York, N. Y., a corporation of Delaware
Application September 21, 1936, Serial No. 101,862
1 Claim. (Cl. 126—110)



An air heating furnace having means defining an enclosed air heating space, means to admit cold air to said space, means to direct heated

air from said space and a heating unit within said space, said unit comprising a plurality of similar sections each formed to define a combustion chamber portion, a flue portion above said combustion chamber portion and an outwardly flared hollow means defining a continuous enclosed space of substantially greater width than the combustion chamber portion communicating with each of said portions, said hollow means being defined by parallel side walls of a width substantially greater than the width of the combustion chamber portion and relatively narrow end walls flared outwardly, the said side walls constituting heat exchange surfaces to bring air in indirect heat exchange relationship with hot gases of combustion over a surface substantially wider than the combustion chamber portion, said sections being connected in side-by-side relationship, integral air directing means projecting from the external surface of each of said sections arranged to promote contact of air to be heated with the whole of said external surface and direct said air toward the lower side of said flue portion and integral gas directing means projecting from the internal surface of each of said sections arranged to promote contact of combustion gases from said combustion chamber portion with the whole of said internal surface in the flow of said gases from said combustion chamber portion to said flue portion.

2,159,441

ANIMAL RESTRAINER

Adam Marty, Monroe, Wis.

Application October 20, 1937, Serial No. 170,090
1 Claim. (Cl. 119—142)



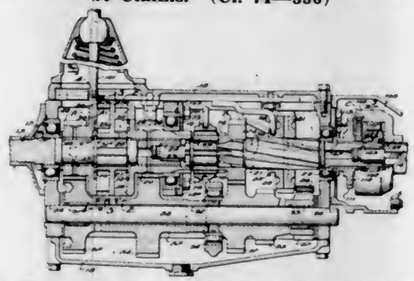
A restraining device of the character described comprising spaced parallel front and rear sections, a substantially U-shaped bottom section of spring material connecting said front and rear sections at the lower ends of the latter and tending to spread said sections apart, spring means between the upper ends of the front and rear sections and tending to force the sections apart rearwardly extending prong members on said front section, and said rear section being provided with slots through which said prong members project when the front section is urged toward the rear section of the device, bail members embracing said front section and hinged to said rear section in a manner to limit movement of the front section in a direction away from said rear section and stop members on the front face of the front section for limiting upward movement of the bail members.

2,159,442

POWER TRANSMISSION

Edwin R. Maurer, Detroit, and John H. Coyne, Highland Park, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application June 18, 1936, Serial No. 85,828
20 Claims. (Cl. 74—336)



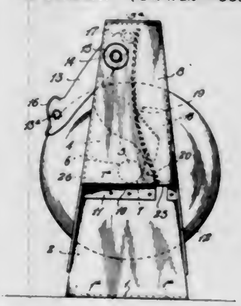
1. In a motor vehicle drive, a driving shaft, a driven shaft aligned therewith, means including a gear train intermediate said shafts for driving said driven shaft at a speed faster than that of said driving shaft, said intermediate driving means including speed responsive clutch means so constructed and arranged in association with said shafts and gear train as to provide a direct two-way drive between said shafts releasable to provide said faster drive between said shafts through said gear train, said speed responsive clutch means comprising a plurality of centrifugally movable clutching members drivingly connected to one of said shafts and a plurality of clutching means adapted for alternative positive clutching engagement and disengagement by said clutching members respectively, said plurality of clutching means being respectively drivingly connected to the other of said shafts and to an element of said gear train.

2,159,443

PAPER ROLL HOLDER AND DISPENSER

Lynn H. McClintock, Los Angeles, and Neil B. Currier, Wilmington, Calif.; said Currier assignor to said McClintock

Application April 20, 1937, Serial No. 138,050
14 Claims. (Cl. 242—55.5)



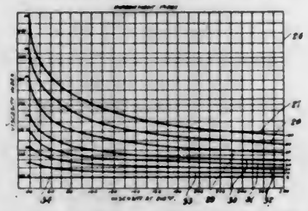
7. A paper dispenser comprising in combination a cutter bar, arms supporting said cutter bar, a flat spring bearing against one of said arms for pressing the cutter bar against a roll of paper, and a housing enclosing said spring structure and retaining the same against lateral displacement, the housing being provided with an aperture for the lengthwise insertion and removal of said spring.

2,159,444

PROCESS FOR TREATING MINERAL OILS

Wilbert B. McCluer and Merrell R. Fenske, State College, Pa., assignors to Pennsylvania Petroleum Research Corporation, a corporation of Pennsylvania

Application June 23, 1934, Serial No. 732,148
1 Claim. (Cl. 196—13)



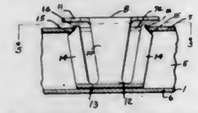
A process comprising extracting a Pennsylvania grade residuum oil containing components of different characteristics with methyl ethyl ketone as the sole effective extractant under conditions adapted to cause the formation of two liquid phases, and separating said phases to produce portions of said oil respectively exhibiting certain of said characteristics to a greater and to a lesser degree.

2,159,445

ATTACHING DEVICE FOR BAG FRAME FASTENERS

Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application May 22, 1937, Serial No. 144,213
6 Claims. (Cl. 292—87)



1. In a fastener structure for bag frames and the like having cooperating frame members one of which has an opening therethrough of predetermined dimensions, a fastener element carried by the apertured member for movable cooperative engagement with the other member, and snap fastener means associated with said element including a yieldable attaching portion adapted to be inserted through said opening and of a character normally larger than the opening whereby the attaching portion may be passed through the opening and will tend to restore itself to its original condition thereby engaging the material of the frame member to be retained therein, and providing for lateral yield to effect the aforesaid movable cooperative engagement.

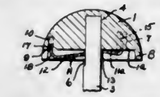
2,159,446

KNOB FASTENER INSTALLATION AND FASTENER FOR THE SAME

Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Original application July 8, 1937, Serial No. 152,581, now Patent No. 2,128,730, dated August August 30, 1938. Divided and this application February 18, 1938, Serial No. 191,235
3 Claims. (Cl. 287—53)

1. In combination with a shaft and an operating member on one end thereof, of a fastener for securing said member to said shaft, said fastener member comprising a plate-like apertured portion surrounding and normally gripping said shaft as when biased with respect to a transverse plane through said shaft, spaced attaching prongs formed on said plate-like portion and spaced from and extending at an angle to the apertured portion thereof, said attaching prongs adapted



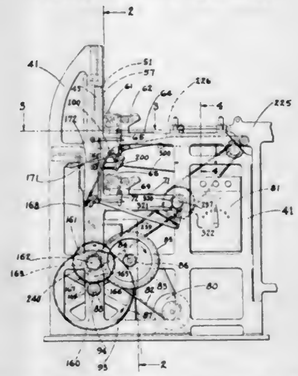
to be embedded in the operating member on opposite sides of a plane passing through said shaft, a part of the plate-like portion being angularly disposed with reference to the apertured shaft-gripping portion and bearing against said operating member.

2,159,447

PRINTING METHOD AND APPARATUS

Irving F. Niles, Lakewood, Ohio, assignor to The Impress Company, Inc., Rochester, N. Y., a corporation of New York

Application June 25, 1936, Serial No. 87,243
19 Claims. (Cl. 101—186)



1. Printing apparatus comprising a printing element, an impression element for pressing a sheet against said printing element, sheet gripping means mounted on and moving with said impression element to hold a sheet on and carry it along with said impression element, one of said elements being substantially in the form of a cylinder adapted to roll over the other of said elements, means for moving one of said elements relatively to the other in one direction and for simultaneously turning said cylindrical element in substantial synchronism with the relative movement between them through a rotary extent substantially different from a single complete revolution, and means for moving one of said elements relatively to the other in the opposite direction without substantial turning of said cylindrical element during such opposite directional relative movement.

2,159,448

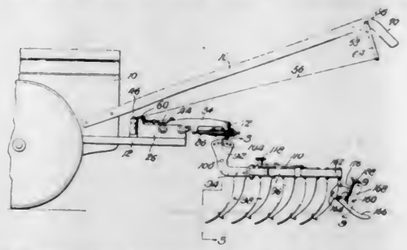
AGRICULTURAL IMPLEMENT

Albert J. Olson, Niles, Ill.

Application June 14, 1937, Serial No. 148,202
3 Claims. (Cl. 97—48)

1. An agricultural implement comprising a beam, bars adjustably connected with said beam, a plurality of soil engaging tools adjustably connected with each of said bars, said soil engaging

tools being adjustable about horizontal and vertical axes, and a loop fixedly connected with



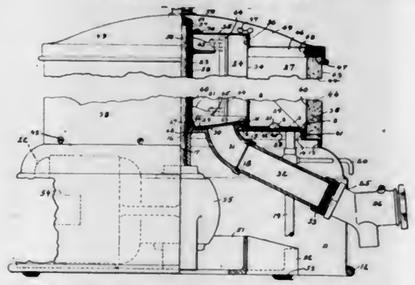
said beam and encircling the bars for supporting the same.

2,159,449
TEAT ELEMENT FOR MILKING MACHINES
Bernt Victor Orre, Stocksund, near Stockholm, Sweden
Application August 24, 1937, Serial No. 160,715
In Sweden August 26, 1936
11 Claims. (Cl. 31—84)



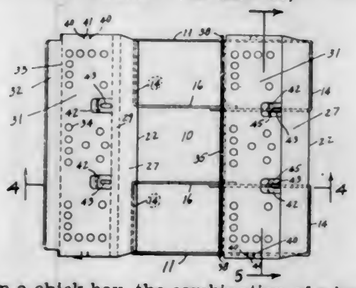
1. A teat element for milking machines comprising an udder cup adapted to receive a plurality of teats at the same time, said cup possessing operating surfaces in contact with each individual teat at two opposite sides, at least one of said surfaces being deformable and adapted to act under the influence of a difference in pressure between the outside and the inside of the cup respectively, in order to compress the teat against the other surface.

2,159,450
FROZEN CREAM MACHINE
John Parcell, New York, N. Y.
Application December 2, 1936, Serial No. 113,883
5 Claims. (Cl. 259—66)



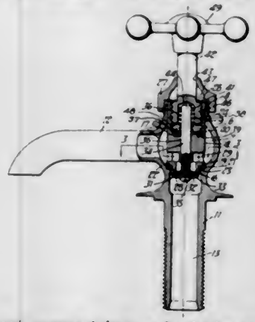
1. In a freezing apparatus, a circular base with a plurality of steps near the top thereof, a circular cooling compartment with a fold extending as a rim from the bottom thereof and fitting over one of said steps, a freezing compartment assembled with and centrally arising in said cooling department, and a circular shell fitting over another one of said steps and forming an insulating compartment around said cooling compartment.

2,159,451
CHICK BOX
Ralph N. Richards, Marion, Ind., assignor to Indiana Fibre Products Company, Marion, Ind., a corporation
Application July 9, 1937, Serial No. 152,823
12 Claims. (Cl. 229—27)



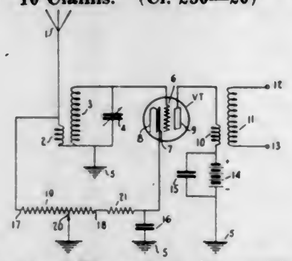
1. In a chick box, the combination of a bottom, a pair of side walls, a pair of end walls, one pair of said walls being vertically slotted intermediate its ends, extensions on each end of the other pair of walls, exteriorly lapping the slotted walls and having their end portions seated in the slots, the slots in the opposite walls being substantially aligned, the slot seated ends of extensions extending toward the opposite wall and overlapping, and partition means associated at the ends with the extension supporting walls and having a cooperative interlocking connection with the box enclosed free ends of the extensions.

2,159,452
FAUCET
Stephen Samaras, Oakland, Calif.
Application May 21, 1937, Serial No. 143,905
4 Claims. (Cl. 251—141)



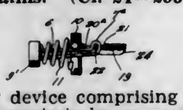
1. A faucet comprising, a body having an open top valve chamber and inlet and discharge passages opening respectively to the bottom and side of said chamber and being formed with a seat at the base of said inlet passage, a valve casing slidably mounted in said chamber for removal therefrom and extending to and closing the upper open portion of said chamber, said casing being provided with a passage extending from the lower end thereof in registration with said inlet passage to the side thereof opening into said chamber, a valve positioned at the lower end of said casing in said inlet passage and movable to and from an engaged position with the lower end of said casing closing the passage therein, said casing being provided at its upper end with an enlarged opening and a smaller passage extending to the lower end and separated from said discharge passage, a stem connected to said valve and extending through said smaller passage into said enlarged opening, a spring secured to said stem in said last named opening and urging said valve to a closed position against the lower end of said casing, a cap secured to said body and covering said valve chamber and casing and provided with an opening therethrough, and an operative member extending through said cap opening and threaded into said enlarged casing opening and journalled on the upper end of said stem for depressing the latter against the resistance of said spring for opening said valve.

2,159,453
DUAL ACTION VOLUME CONTROL
Alexander Senauke, New York, N. Y., assignor to King Manufacturing Corporation, Buffalo, N. Y., a corporation of New York
Application June 13, 1929, Serial No. 370,545
10 Claims. (Cl. 250—20)



1. In an amplifier system, in combination, a vacuum tube amplifier, an input circuit associated therewith, a variable resistance in shunt therewith, a second variable resistance traversed by the space current of said tube, means for applying the voltage drop developed therein as a bias potential to the grid of said tube and a single means for varying both said resistances simultaneously and in an opposite sense.

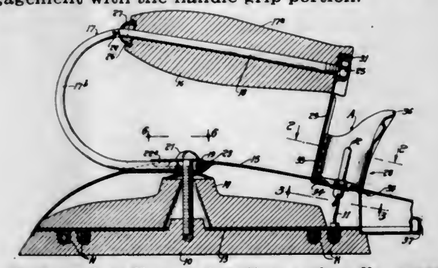
2,159,454
LICENSE PLATE FASTENER
Charles E. Shoup, Quincy, Ill.
Application November 13, 1937, Serial No. 174,464
6 Claims. (Cl. 24—255)



1. A fastening device comprising a stem to be inserted through parts to be connected, a locking plate pivotally mounted upon one end of the stem, the pivot for said locking plate being in offset relation to the center of the plate whereby the plate is overbalanced and tends to assume a vertical position extending across the plane of the stem, an abutment plate slidably mounted upon the stem, and means carried by the stem for yieldably holding the abutment plate in engagement with an edge of the locking plate whereby to temporarily maintain the locking plate in the plane of the stem.

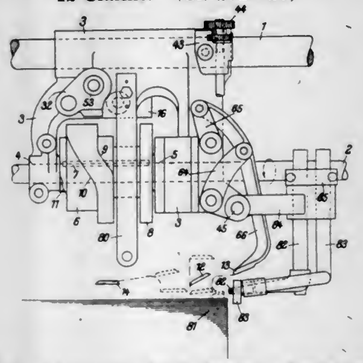
2,159,455
HANDLE CONSTRUCTION FOR SADIRONS AND THE LIKE
Howard A. Smith, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application November 1, 1937, Serial No. 172,186
7 Claims. (Cl. 38—90)

2. In a sad iron and handle construction, a sad iron, a handle grip portion, a rod extending lengthwise therethrough, said rod at one end extending beyond one end thereof and having a return bend, means for securing said return bend to said sad iron, said rod where it leaves said handle grip portion having a raised shoulder engaging the end thereof and a nut on the other end of the rod for retaining said shoulder in engagement with the handle grip portion.



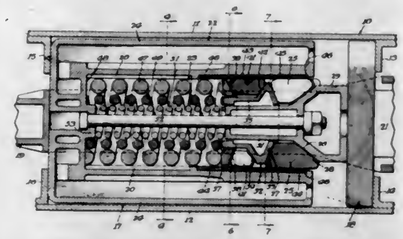
7. In a handle construction, a handle, means for supporting one end of said handle on a sad iron and a combined handle supporting bracket and terminal shield connected with the sad iron and with the other end of said handle, said combined handle supporting bracket and terminal shield comprising a sheet of material having a shield portion bent into a tubular shape to surround the terminals of the sad iron, having a rest portion extending upwardly from one side of the tubular shaped portion and having an upward extension constituting a handle support at the other side of the tubular shaped portion, said upward extension having a portion thereof bent out of the plane of the extension to give rigidity to said upward extension.

2,159,456
AUTOMATIC SHEET FEEDING DEVICE
Georg Spiess, Leipzig, Germany
Application December 17, 1937, Serial No. 180,440
In Germany November 23, 1936
12 Claims. (Cl. 271—27)



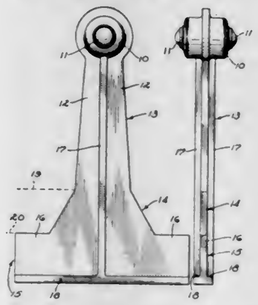
1. An automatic sheet feeding device whose sheet separating and feeding means engage the rear edge of the pile and are adjustable along a driving shaft extending above the pile in feeding direction, comprising a driving shaft, sheet separating and feeding means, a curved cam member longitudinally displaceably yet non-rotatably mounted on the driving shaft, a pile height feeler controlling the pile transport and starting and stopping means for suction air, said separating and feeding means, feeler and starting and stopping means being controlled by said cam member.

2,159,457
DRAFT GEAR
Donald F. Sproul, Chicago, Ill., assignor to Cardwell-Westinghouse Company, a corporation of Delaware
Application January 14, 1937, Serial No. 120,566
14 Claims. (Cl. 213—32)



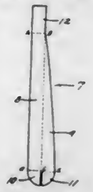
1. In a draft gear, a casing having interior angular friction walls, angular friction plates for said walls, a set of friction blocks each having an angular friction face for engaging the angular face of a corresponding wear plate, a set of friction shoes having friction faces arranged at an angle to each other engaging said wear plates, said shoes being partially rotated relative to said blocks, an inner wedge member having wedge faces engaging said shoes and blocks, said member having a hollow axial projection, an outer wedge member said outer wedge member having an extension extending into said projection, a plurality of springs engaging respectively said projection and extension, a spring follower engaging said shoes, and a spring engaging said follower.

2,159,458
REFLECTING MARKER
Hugh W. Stoddard, Dallas, Tex.
Application April 11, 1938, Serial No. 201,351
2 Claims. (Cl. 40—125)



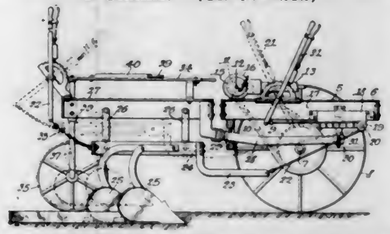
1. In a marker of the character described, the combination with a pair of oppositely disposed coaxial light-reflecting elements of a cast metal supporting body adapted to be partially embedded in soil or the like, said body having: a cylindrical portion housing said elements; vertical flanges perpendicular to the axis of said elements to provide light-reflecting surfaces on opposite sides of the body, the lower portions of said flanges being widened to provide the major anchorage for the body; vertical flanges in the plane of said axis to cooperate in anchoring the body; and horizontal flanges at the lower end of the body to oppose any force tending to withdraw the body from an embedded position.

2,159,459
EXTRACTOR FOR TIGHTLY PACKAGED ARTICLES
Dennis T. Terrel, Oklahoma City, Okla.
Application February 14, 1938, Serial No. 190,441
1 Claim. (Cl. 206—56)



A blank for producing an extractor for tightly packaged articles comprising: a narrow elongated substantially rectangular side wall member, and a slightly shorter substantially triangular side wall member joined together along a common side edge, said edge being creased for folding, the bases of said two side wall members being in alignment; a substantially quarter circular base sector member integrally connected to each of said side wall members along its respective base, the two sector members being arranged so that their outer arcuate edges together substantially form a divided semi-circle the diameter of which is defined by a folding crease; and a foldable removal tab for said extractor at the top of said rectangular side wall member formed by a crease line extending laterally across said member at a point substantially in alignment with the apex of said triangular side wall member.

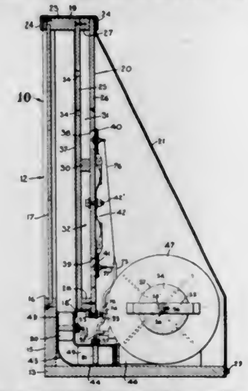
2,159,460
TRACTOR HITCH
Garry W. Todd, Charlotte, N. C.
Application July 27, 1938, Serial No. 221,619
5 Claims. (Cl. 97—232)



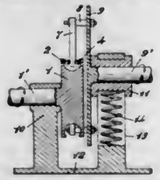
1. The combination with a tractor of the sulky type, of a wheel-supported main plow frame, a draw-bar connected with the main plow frame, means for pivotally connecting the draw-bar to the tractor at a point in advance of the axle of the tractor, a vertically adjustable plow carrying frame mounted on the main plow frame, an arm extending forwardly from the vertically adjustable frame, and a flexible member connecting the arm to the tractor at a point in advance of the axle of the tractor and also in advance of the point of connection between the draw-bar and tractor.

2,159,461
DISPLAY DEVICE
Estey M. Turner, Arcadia, Calif.
Application March 12, 1938, Serial No. 195,589
4 Claims. (Cl. 40—37)

1. In a display device, a housing including a bottom, front, side and top walls, said front wall having an aperture therein, a transparent closure member for said aperture, a frame member in said housing extending from side to side and spaced from said front wall forming a front chamber, said frame member having a front and a rear wall and having a plurality of chambers therein, said frame front wall having a plurality of stencil-like slots therethrough opening into said frame chambers, an air pervious material on the outer face of said frame front wall extending over said slots therein, said frame rear wall having apertures therethrough opening into said frame chambers, valve means for controlling passage through each of said frame rear wall apertures, an air manifold in said housing, said manifold including a horizontal section and a vertical section, said vertical section including an outlet portion opening into said front chamber, said horizontal section including an inlet portion, an air impeller in said housing, said impeller including an outlet portion and an inlet portion, said impeller outlet communicating with said manifold inlet, a plurality of stationary air deflector vanes and a plurality of adjustable air deflector vanes in said manifold intermediate said manifold inlet and outlet portions, said impeller inlet portion including an air inlet port and an adjustable valve member for controlling the passage of air through said inlet port.

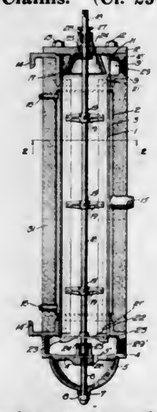


2,159,462
TRANSMISSION GEAR HAVING AN AUTOMATICALLY VARIABLE TRANSMISSION RATIO
Alvaro Vincenzoni, Terni, Italy
Application March 24, 1937, Serial No. 132,836
In Italy April 1, 1936
1 Claim. (Cl. 74—113)



A variable speed gear comprising a rotary driving member, a rotary driven member and means connecting them comprising a plurality of drag links in which the ratio of transmission is automatically varied by relative displacement of the two members from a position of maximum eccentricity, corresponding to a maximum ratio of transmission, through intermediate eccentric positions into a concentric position, a spring carrying one of said members and tending to hold it in the position of greatest eccentricity which is deformed in accordance with the resistance to be overcome and thus varies the relative eccentricity of the two members, the driving and driven members being parallel shafts one of which is so mounted as to be caused to approach the other by increased load against the action of the said spring, said drag links being so constructed and arranged that either the driving or the driven member may be supported by the resilient member, and means upon one of said members for gripping said drag links.

2,159,463
HEAT EXCHANGE APPARATUS
Joseph T. Voorheis, Oakland, Calif.
Application March 24, 1936, Serial No. 70,632
2 Claims. (Cl. 257—108)

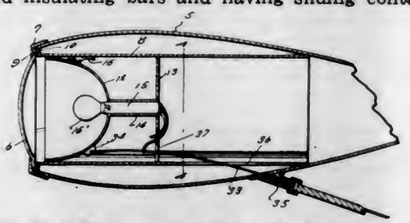


2. A heat exchanger comprising a vertical tube of uniform diameter, walls providing passageways at the upper and lower end of said tube and through which fluid may flow to completely fill the tube and to maintain a column of liquid therein, walls providing a fluid compartment circumscribing the tube and through which a fluid may circulate in heat exchange relationship to said tube, a shaft extending through said tube, longitudinally extending blades carried by said shaft and extending substantially the entire length of the tube and being in relatively close proximity to the inner surface of the tube whereby the entire outer film of the column of fluid within the tube will be in intimate contact with said surface, and an impeller carried at the lower end of said shaft below said tube, said impeller comprising blades adapted for actuation so as to increase the flow rate of heated fluid through the tube, which includes a helical groove formed on the outer surface of the tube and having heat exchange relationship to the fluid in the shell, said groove extending continuously circumferentially of the tube so as to conduct the condensate to the lower end thereof.

2,159,464
AUTOMOBILE HEADLIGHT
Edward Waage and Knut E. Lindhagen, Port Richmond, Staten Island, N. Y.
Application May 24, 1938, Serial No. 209,770
2 Claims. (Cl. 240—41.6)

2. In a lamp of the character described, a lamp casing, a horizontal open ended guide cylinder arranged within said casing and provided adjacent the bottom thereof with longitudinally extending guide channels, conductor strips ar-

ranged within said channels and insulated from said guide cylinder, an assembly slidably fitted within said guide cylinder and including a parabolic reflector having an incandescent lamp socket accommodating tube extending rearwardly therefrom, bars of insulating material extending from said reflector and having a sliding fit within the guide channels, conductor strips carried by said insulating bars and having sliding contact



with the first-mentioned conductor strips, a lamp socket arranged within said tube and electrically connected with the second-named pair of conductor strips, an incandescent bulb mounted in the lamp socket and supported thereby in operative position to said reflector, and remote control means connected with said assembly for sliding the latter longitudinally of the guide cylinder to the desired position of adjustment.

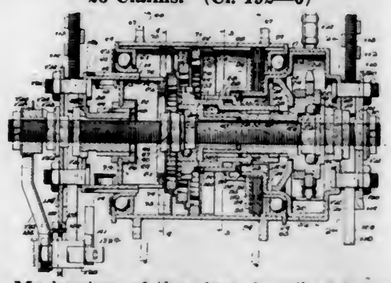
2,159,465

SELECTIVE SPEED TRANSMISSION AND COASTER BRAKE

Calvin C. Williams, Philadelphia, Pa.

Application September 29, 1937, Serial No. 166,455

23 Claims. (Cl. 192—6)



1. Mechanism of the class described including fixed end-housings, a hub casing rotatably supported thereby, a driven gear connected with the casing for rotating the same, a rotatable axle shaft extending through said housings and the casing and mounted for floating movement relative thereto, a drive gear carried by the shaft, and means for shifting the shaft as it is rotated and positioning the drive gear for engagement with the driven gear.

2,159,466

REVERSAL DEVELOPMENT OF LIGHT-SENSITIVE SILVER HALIDE EMULSIONS

Gustav Wilmanns, Wolfen, Kreis Bitterfeld, Wilhelm Schneider, Dessau, and Richard Kethur, Bitterfeld, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware

No Drawing. Application October 29, 1937, Serial No. 171,702. In Germany November 10, 1936

2 Claims. (Cl. 95—88)

1. In a process of developing a photographic silver halide emulsion by the reversal method, the improvement which comprises interposing between the first and the second development an acid aqueous intermediate bath containing a thiourea capable of forming silver nuclei within said emulsion.

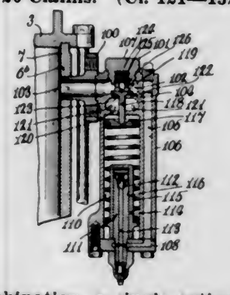
2,159,467

PRESSURE FLUID MOTOR

Wade H. Wineman, Coolspring Township, La Porte County, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application September 28, 1936, Serial No. 102,990

20 Claims. (Cl. 121—132)



1. In combination, a single-acting expansible-chamber motor comprising a cylinder, a piston reciprocable therein, and means for effecting supply of motive fluid to one end of said cylinder and the exhaust of fluid therefrom after the same has worked in said cylinder, and means associated with the normally inactive end of said motor cylinder for building up a cushion pressure for cushioning over travel of said motor piston should the same occur and venting the cushion pressure upon a reverse movement of said motor piston.

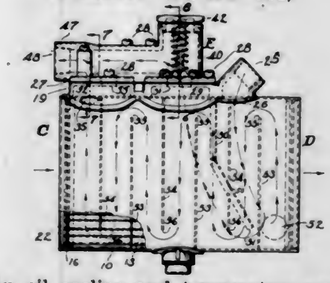
2,159,468

OIL TEMPERATURE REGULATING DEVICE

Fred M. Young and Ernst Witzel, Racine, Wis., assignors to Young Radiator Company, Racine, Wis., a corporation of Wisconsin

Application November 7, 1936, Serial No. 109,716

5 Claims. (Cl. 184—104)



1. An oil cooling and temperature regulating device of the class described, comprising a housing having a narrow medial passageway and chambers on opposite sides thereof formed by two spaced partition walls and two header plates, bundles of tubes in said side chambers the ends protruding through said header plates and being bonded thereto, a spring held relief valve forming an outlet to said passageway, an inlet connection to said passageway near the rear end thereof, openings to said chambers in said partitions near the rear ends thereof and outlets in the other ends of said chambers, spaced transverse partitions in said chambers through which said tubes extend and having alternately positioned openings, whereby when said valve is closed the oil will pass between the tubes of said bundles sinuously and whereby when the oil cannot pass between the tubes, said valve will lift and the oil pass through said passageway.

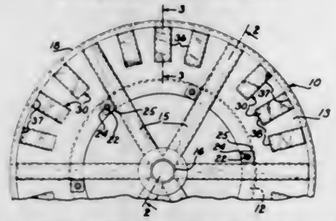
2,159,469

REEL

George A. Boswin, Chicago, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 16, 1937, Serial No. 164,156

2 Claims. (Cl. 242—77)



1. In a reel, a head comprising an annular plate, radial spokes secured to said plate, a rim encircling the plate and spokes and welded thereto, and reinforcing means comprising a plurality of spaced apart tapered channels welded to the annular plate radially thereof and with their deeper ends contacting an inner surface of the rim, said reinforcing channels being of a length substantially less than the width of said annular plate.

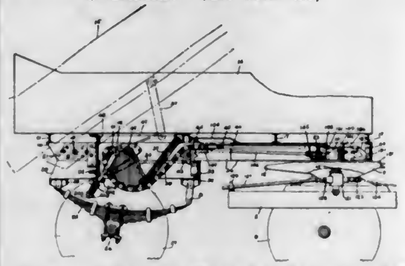
2,159,470

OPERATING MECHANISM FOR VEHICLE DUMPING BODIES

Harold A. Cederstrom, Minneapolis, Minn., assignor to Rosco Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota

Original application July 10, 1933, Serial No. 679,643. Divided and this application January 28, 1937, Serial No. 122,785

3 Claims. (Cl. 298—22)



1. In a semi-trailer adapted to be connected to a truck or a tractor, a frame comprising side members connected together by suitable cross members, auxiliary frame members secured to certain of said cross members and disposed in spaced parallel relation to said side members, a load-carrying body pivotally mounted on said frame, cam members rotatably mounted in the spaces between said side members and said auxiliary frame members and having sprocket teeth in their peripheries, arms pivotally connecting said cam members to said body, chains operatively engaged with the teeth on said cam members and having their rear terminals suitably secured to said members, said auxiliary side members having guide slots therein, an equalizer bar slidably supported in said guide slots and connected to said chains, a hoist mounted in said frame and having a reciprocal member operatively connected to said equalizer bar, and means for controlling the operation of the hoist whereby said cam members may be actuated to tilt the body to load-dumping position.

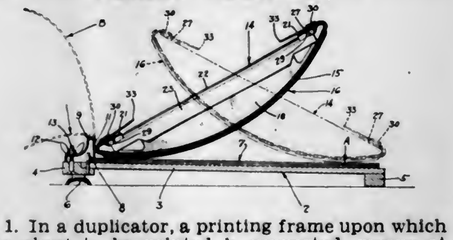
2,159,471

DUPLICATOR

Kenneth O. Christianson, Mankato, Minn., assignor to Creative Educational Society, Mankato, Minn., a partnership composed of G. R. Peterson, J. C. Mackin, A. D. Tinkler, and K. O. Christianson

Application March 10, 1938, Serial No. 195,080

8 Claims. (Cl. 101—131)



1. In a duplicator, a printing frame upon which the sheet to be printed is supported, means at one end of the frame for squaring the sheet thereon, and a clamping member engageable with said end of the sheet and adapted to securely clamp the sheet in position on the frame, whereby the sheet cannot be displaced on the frame by a printing member, when the latter is operated to make an impression on the sheet, said clamping member having an upright wall adapted to be engaged by one end of the printing member, thereby to square said member with the sheet.

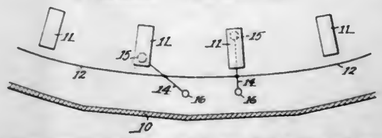
2,159,472

SYSTEM OF DRAFTING LOCOMOTIVES

Frans H. C. Coppus, Princeton, Mass., assignor to Linwood M. Erskine, Worcester, Mass.; Vera W. Coppus and Frans H. C. Coppus, both of Princeton, Mass., as trustees

Application August 20, 1937, Serial No. 160,076

6 Claims. (Cl. 104—52)

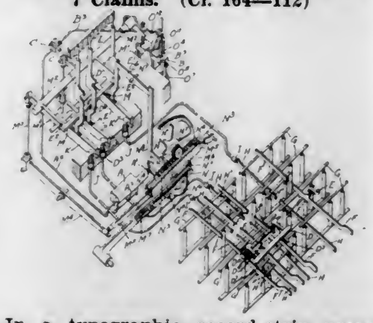


1. The combination with a plurality of smoke jacks, each adapted to receive the smoke stack of a locomotive, of a fixed beam extending around outside the smoke jacks, a trolley carried by said beam, an arm universally pivoted intermediate its ends to the trolley, a blower carried by the arm at one end so as to be registered with the desired smoke stack, a counterweight for the blower carried on the arm at the other end, and a guide on the counterweight adapted to engage the bottom of the beam, the blower being arranged and adapted to hold the arm in position for the guide to be pressed against the beam while the blower is out of use, to facilitate the moving of the device from one jack to another along the beam.

2,159,473
PRODUCTION OF MACHINE-SET TYPE COMPOSITION

Maurice Richard Dewhurst, Earlswood, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a corporation of Virginia

Application March 19, 1938, Serial No. 196,848
In Great Britain November 1, 1937
7 Claims. (Cl. 164—112)

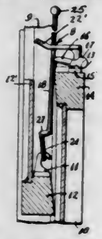


1. In a typographic record-strip preparing machine furnished with a series of key-controlled punches, a record-strip feeding mechanism, and a units-measuring mechanism the combination with the said record-strip feeding mechanism and the units measuring mechanism, of a separate air-controlled locking or arresting device for each, and a key which controls a space or transfer punch (S-punch) and the supply of air to the said locking or arresting devices separately or simultaneously.

2,159,474
SASH SECURING DEVICE FOR OPENED WINDOWS

Carl Drucks, Jackson Heights, Long Island, N. Y.

Application April 14, 1938, Serial No. 201,902
4 Claims. (Cl. 292—306)

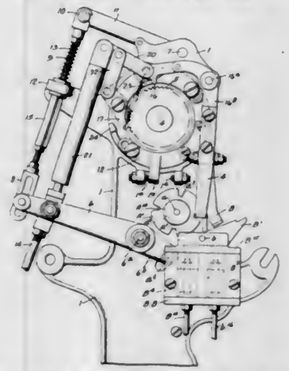


4. A sash fastener, comprising a hook member for mounting on a slidable sash, a rod element having an eye engaging upon said hook member and said rod element normally extending upwards at a slight inclination with relation to said sash and pivotal towards and away from said sash, a lever member for mounting on a second sash which is slidably mounted adjacent said sash, an arm element pivotally mounted on said lever member and having a perforation formed therein with vertical sides and through which said rod element passes with its sides resting against opposite sides of said perforation to pivot said arm element downwards to produce a binding grip between said rod and the edge portion of said perforation, and an upwardly extending grip portion formed on said arm element for normally bearing against a pane of glass mounted in said sash having said hook member to break the same when said arm element is pivoted downwards by an attempt to force said sashes.

2,159,475
TYPOGRAPHIC COMPOSING MACHINE

Richard Cornelius Elliott, London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a corporation of Virginia

Application October 28, 1937, Serial No. 171,433
In Great Britain May 13, 1937
9 Claims. (Cl. 199—80)

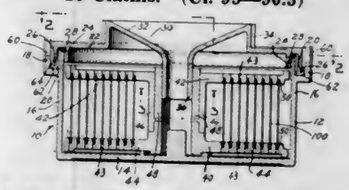


1. In a record-strip controlled single-type casting and composing machine the combination with a record-strip feeding mechanism comprising a ratchet wheel, and a driving pawl and a holding pawl therefor, of a locking lever coupled to or operative on the holding pawl, a locking device and an adjustable counting device for the lever, operated from a signal in the record-strip, to effect a predetermined number of casts from a single-type in the record-strip and then release the feeding mechanism, and a second locking device arranged to arrest the driving pawl by a signal in the record-strip and to release the said pawl when a number of repeated casts from a single-type signal in the record-strip has been made to bring the line of types to the desired length or limit.

2,159,476
FILM PROCESSING TANK

Lawrence R. Fink, New York, N. Y., assignor to Fink-Roselieve Co. Inc., New York, N. Y., a corporation of New York

Application July 16, 1938, Serial No. 219,548
10 Claims. (Cl. 95—90.5)

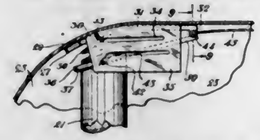


1. A film processing tank comprising a receptacle and a cover therefor having a light-tight engagement therewith, the cover being freely revolvable on the receptacle, the upper edge of the receptacle having an annular channel therein; the cover having a downwardly depending flange on the cover fitting loosely within the annular channel, a number of projecting studs on one of the chainnel walls, and an outwardly extending shoulder on said flange, fitting beneath said studs to secure the cover to the receptacle in said revolvable light-tight relationship.

2,159,477
AUTOMOBILE RADIATOR INLET VALVE

Bernet Friedman, South Norwalk, Conn.

Application February 23, 1935, Serial No. 7,869
15 Claims. (Cl. 220—38)

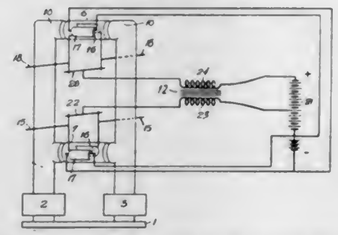


1. An automobile radiator inlet valve comprising: a radiator having an inlet thereto, a spaced outer surface having an orifice therein, an exterior closure member adapted to engage said orifice, a valve plate adapted to engage said inlet, and means to displace said plate and to displace said member inwardly to a position of disengagement.

2,159,478
MAGNETRON SYSTEM FOR SIMULTANEOUS TRANSMISSION AND RECEPTION

Ernst Gerhard, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application June 6, 1936, Serial No. 83,858
In Germany June 12, 1935
8 Claims. (Cl. 250—15)

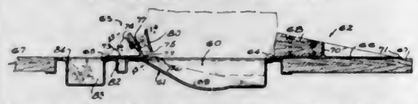


4. Two-way radio apparatus comprising a demodulator having a magnetron discharge tube responsive to incoming signals, a magnetron discharge tube oscillator, means for modulating the output energy from said oscillator with output energy from said demodulator, means common to the demodulator and the oscillator for magnetizing the electron discharge zones thereof, and means for independently varying the magnetic flux through each of said discharge tubes.

2,159,479
RAILWAY HIGHWAY-VEHICLE CARRIER

George S. Goodwin and Peter Kass, Chicago, Ill.

Application November 17, 1937, Serial No. 175,010
6 Claims. (Cl. 105—159)

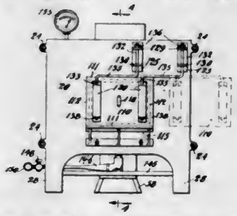


1. In a car of the class described, a floor having a wheel receiving pit, a member pivoted to said floor at one side of said pit and movable about its pivot to a position within said pit or to a position over said floor adjacent to said pit, said member having a straight face arranged to form a continuation of the top surface of said floor when said member is in said first mentioned position or to lie along said floor when said member is in said second mentioned position, and said member having a concave face at an angle to said straight face and disposed, when said member is in the latter mentioned position, to form a chock face for a wheel seated in said pit.

2,159,480
OVEN FURNACE

William R. Hones, Baldwin, N. Y., assignor to Charles A. Hones, Inc., Baldwin, N. Y., a corporation of New York

Application May 23, 1938, Serial No. 209,430
3 Claims. (Cl. 263—43)



1. In a furnace the combination of a front plate having a furnace door opening, a door for said opening, a rear plate for the furnace, brick of refractory material between said plates forming a heating chamber, U shaped brackets having upper and lower horizontal members extending from the outer face of said door, and spaced from each other, brackets spaced from each other extending from the front plate of the furnace, each of the latter brackets having projecting therefrom an upper and a lowed lug, a pair of hinge rods each comprising an upper vertical member with a nut at its upper end, a lower vertical member for each hinge rod with a nut at its lower end and a horizontal member for each hinge rod connecting its vertical members, the upper vertical members of the hinge rods extending through openings in the lugs of the brackets of the said front plate and the lower vertical members of the hinge rods extending through openings in the horizontal members of the U shaped brackets of said door, the nuts at the upper ends of the upper vertical members of the hinge rods bearing on the lugs of the brackets extending from the front plate of the furnace and nuts at the lower ends of the lower vertical members of the hinge rods bearing against the lower horizontal members of the U shaped brackets.

2,159,481
SOUND LOCATOR RECEIVER

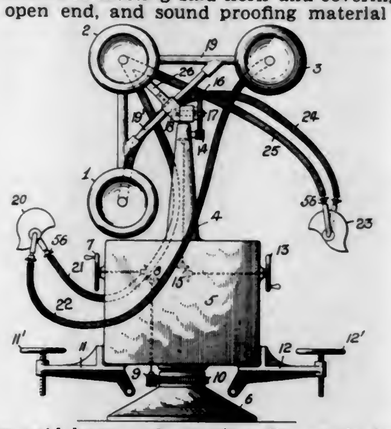
Frank R. House, Baldwin Harbor, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Original application July 19, 1934, Serial No. 735,989. Divided and this application February 28, 1936, Serial No. 66,158
17 Claims. (Cl. 181—26)

1. In a sound locator having spaced sound receivers, a frame supporting the same in spaced relation laterally and in elevation, with azimuth and elevation head phones connected to said receivers, of means for mounting said frame for turning in azimuth and elevation, and a resilient metallic plate connection in said means adapted to maintain oscillation of said receivers through a limited angle.

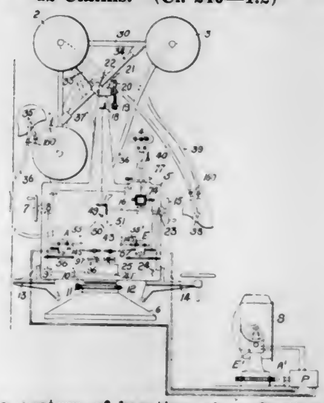
7. A sound receiving horn for sound locators comprising an interior conical horn and a spaced outer generally conical covering therefor, a flar-

ing mouth connecting said horn and covering at the open end, and sound proofing material be-



tween said horn and covering, the whole being stream-lined to prevent wind noises.

2,159,482
SYSTEM OF LOCATING AIRCRAFT AT NIGHT
Frank R. House, Baldwin Harbor, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application July 19, 1934, Serial No. 735,989
12 Claims. (Cl. 240—1.2)



1. In a system of locating aircraft at night, a sound locator, a searchlight spaced therefrom, transmitting means at the former for controlling the latter, by the azimuth and elevation movements of the former, a sound lag corrector at the former, means for superimposing a systematic scanning movement to the searchlight beam, a pair of sighting devices at the former and turned therewith, one of which is of lesser angular field than the other, and means for imparting said scanning movement only to said sighting device of lesser angular field.

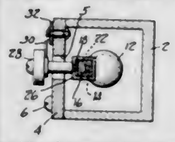
2,159,483
ANIMAL TRAP
Mary A. Huebener and John U. Lehn, Lititz, Pa., assignors to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania
Application July 3, 1937, Serial No. 151,782
17 Claims. (Cl. 43—83)

1. An animal trap comprising a base, a spring actuated jaw pivotally supported thereon, a pivoted jaw locking member movable vertically in an arc into and out of set position, a pivotally mounted trip lever having spaced side walls, said walls having aligned apertures therein, and a light transverse pin loosely retained in the apertured portions of the side walls, said pin being positioned in the arc of movement of the trigger engaging portion of said locking member for



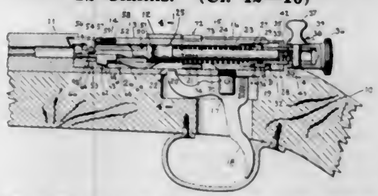
engagement therewith and providing a trigger therefor in the set position of the trap, the pivotal movement of said locking member from released to set position momentarily moving said trigger pin in said apertures to a position out of said arc of movement, said apertures being in the form of slots to permit said lever to remain stationary while said pin is being moved by said locking member.

2,159,484
VENT VALVE FOR STEAM HEATING RADIATORS
Gustave Levy, Weehawken, N. J.
Application October 26, 1937, Serial No. 171,033
1 Claim. (Cl. 137—122)



A device for attachment to steam heating radiators comprising a casing open to the atmosphere, a second casing within the first casing having an opening therein defining a communication between the casings, means on said second casing to secure said device to a steam heating radiator, means to normally close said opening in the second casing comprising a spring-supported plug bearing against the same, and a plurality of means adjustable in transverse directions with respect to each other to increase the spring pressure against said opening, said spring being responsive to fluid pressure changes in said second casing to vary the size of the said opening therein.

2,159,485
FIREARM
Crawford C. Loomis, Ilion, N. Y., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application April 22, 1936, Serial No. 75,695
12 Claims. (Cl. 42—16)



1. In a firearm, a striker assembly comprising a striker body, a striker spring, an abutment for limiting the expansion of said striker spring; a cocking head assembly comprising a rearwardly projecting head and a laterally extending finger piece, and means for supporting said cocking head assembly on said striker body for movement thereon, said means comprising a spring urging said cocking head assembly to its rearmost position on said striker body.

2,159,486
PHILATELIC DEVICE
Robert Mayer, New York, N. Y.
Application July 31, 1937, Serial No. 156,697
4 Claims. (Cl. 229—92.8)



1. In a device of the kind described the combination of a plurality of address sections arranged end to end and each having indicia on one face thereof denoting the address to which the same is to be sent and having on the other face any desired communication, and a common back associated with one of the plurality of address cards whereby the indicia only on one card denoting the address to which the section is directed is exposed at any one time.

2,159,487
VIBRATION-DAMPING MATERIAL
Herman H. Nies, Waukegan, Ill., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
No Drawing. Application March 13, 1935, Serial No. 10,959
4 Claims. (Cl. 134—1)

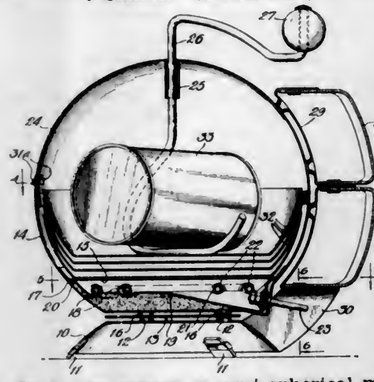
1. A vibration-damping material of a sprayable consistency comprising blown asphalt, filler particles of sand, and a volatile extender that is an imperfect solvent for the asphalt and forms therewith a livered mixture, the proportion by weight of the filler particles being between 2 and 6 times that of the asphalt and the said particles being discretely dispersed in the asphalt in such a manner as to preserve the plastic character of the asphalt.

2,159,488
PERFORATED MEMBRANE
John S. Parkinson, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application August 1, 1935, Serial No. 34,239
10 Claims. (Cl. 20—4)



1. An acoustical structure for absorbing sound of a selected frequency comprising a substantially air-impermeable backing member, a facing element of a thickness of the order of ¼ inch provided with openings spaced about ⅜ to 1 inch apart at their centers and having each an area of cross-section of the order of a circle ⅛ to ½ inch in diameter and adapted to admit incident sound therethrough, said facing element defining a space with said backing member substantially sealed against the entry of air-borne sounds except through said openings, and air filling the space and openings to constitute a resonant system, the frequency of which is substantially equal to the frequency of the sound to be absorbed.

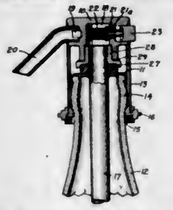
2,159,489
ELECTRIC CORN POPPER
Stephen A. Platt, Decatur, Ill.
Application July 28, 1937, Serial No. 156,099
7 Claims. (Cl. 219—19)



1. In a corn popper, a semi-spherical member having a flat portion, a pan parallel to said portion and having a flange engaging and secured to the outer surface of said member, a tray having a horizontal flange attached to the bottom of said flat portion, an electrical heating element contained within said tray, insulating members enclosing said element, and tabs struck up from said tray and clinched over said insulating members.

2. A corn popper comprising a two-part substantially spherical housing, a popping plate in one part, a stirrer journalled in the other part and having a portion adapted to engage said plate, said stirrer being arranged for sufficient axial movement to locate said plate-engaging portion above the rim of the part in which said stirrer is journalled and the part which carries the stirrer being of sufficient depth to receive entirely the lower portion of the stirrer, whereby when the stirrer carrying part of the housing is removed it may be supported on its rim with the stirrer housed within it.

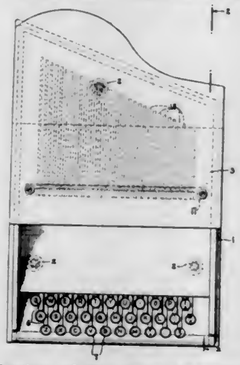
2,159,490
FLUID DISPENSING DEVICE
William A. Ramsay, Honolulu, Territory of Hawaii
Application November 30, 1936, Serial No. 113,446
3 Claims. (Cl. 225—22)



1. The combination in a fluid dispensing device for a bottle provided with a sheet metal sealing top, of a head member, a tube connected to said head member, a cutting edge provided with a plurality of sharpened projections on the lower end of said tube, said head member being provided with a central opening communicating with the upper end of said tube and with a chamber surrounding said opening, a port connecting said opening with said chamber, a valve biased to nor-

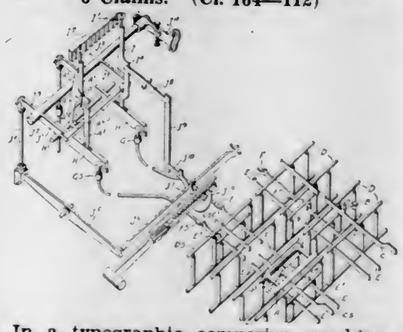
mally close said port, means on the exterior of said head for opening said valve, a spout on said head connecting with said chamber, and means carried by said head member for detachably securing said head member to a bottle.

2,159,491
MUSICAL INSTRUMENT
Alexander Rose, New York, N. Y.
Application March 8, 1938, Serial No. 194,532
2 Claims. (Cl. 84—404)



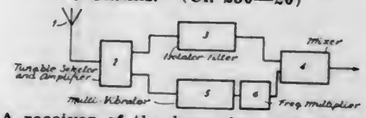
1. In a device of the type described, the combination including a plurality of tuned sound generating elements arranged in chromatic scale sequence, and a plurality of key lever actuated devices respectively associated with said elements to set them in vibration, said key levers being arranged and marked to form at least a portion of a standard typewriter keyboard and associated with said tuned elements in the sequence of their arrangement.

2,159,492
PRODUCTION OF MACHINE-SET TYPE COMPOSITION
William Wigg, North Finchley, London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a corporation of Virginia
Application July 23, 1937, Serial No. 155,202
In Great Britain November 25, 1936
6 Claims. (Cl. 164—112)



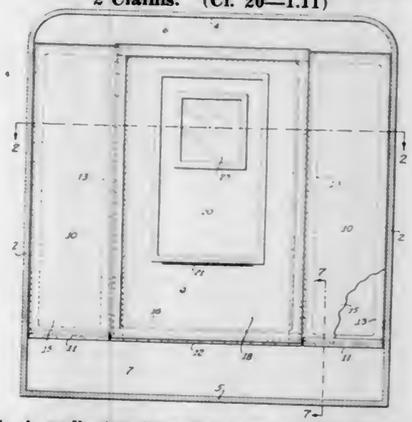
1. In a typographic composing machine for preparing a record-strip for a single-type casting and composing machine, the combination with the S-punch or punch for the signal controlling the justification transfer device in the casting machine, of a lever adjustably mounted on the bar of the S-punch and a lug on the lever adapted in one position to override or avoid a rocking bar controlling the units measuring and paper feed devices of the composing machine and adapted in another position to engage and operate said bar, substantially as and for the purpose described.

2,159,493
MODULATED CARRIER WAVE RECEIVER
George Maurice Wright, Broom Hall, Woodham Ferrers, Bicknacre, England, assignor to Radio Corporation of America, a corporation of Delaware
Application March 18, 1936, Serial No. 69,421
In Great Britain March 27, 1935
6 Claims. (Cl. 250—20)



1. A receiver of the homodyne type having in combination a tunable selector, means for isolating a desired component of the output from said selector, a circuit in shunt with said isolating means, said circuit including a multi-vibrator connected to said selector and maintained in synchronism with a sub-harmonic of the output from said selector, said multi-vibrator having incorporated therein an inductive impedance otherwise termed an "impulse coil", and a mixer circuit having input connections both from said isolating means and from said multi-vibrator.

2,159,494
COMBINED WALL BED AND DINETTE
Royale A. Wright, Grayling, Mich.
Application May 24, 1937, Serial No. 144,419
2 Claims. (Cl. 20—1.11)

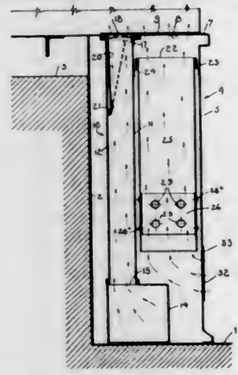


1. A wall structure for a room comprising, a series of panels, lying in substantially the same vertical plane, some of said panels being supported for movement toward each other in the same plane and to be concealed thereafter behind another of said panels for movement together about a horizontal axis.

2,159,495
GAS MIXING APPARATUS
Edward L. Anderson, Grosse Isle, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware
Application November 5, 1934, Serial No. 751,455
10 Claims. (Cl. 98—38)

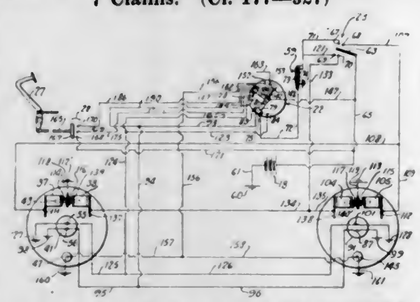
1. An apparatus for supplying air to a room

comprising a casing positioned adjacent a room wall, said casing having an outlet through its top wall for upward discharge of heated air, said casing having a second outlet for upward discharge of cold air through its top wall and positioned between the room wall and said first outlet, said second outlet being subdivided to provide a multiplicity of small cold air streams to induce mixing of the cold and heated air, hol-



low partition means joining said top wall and providing a cold air duct within said casing communicating with said second outlet, a second duct means formed between said hollow partition means and the front wall of said casing and communicating with said first outlet for passage of air therethrough, and heating means within said second duct means and operable to heat the air passing therethrough.

2,159,496
SIGNALING SYSTEM
Samuel F. Arbuckle, Highland Park, Mich., assignor to United Lens Corporation, Detroit, Mich., a corporation of Delaware
Application February 13, 1936, Serial No. 63,759
7 Claims. (Cl. 177—327)

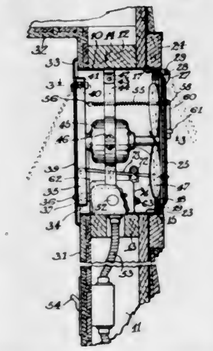


1. A lamp for warning and signal purposes, including, in combination, a housing; a closure therefor having a light penetrable area constituting a direction signal; two energizable light sources having different intensities supported adjacent to said closure; circuits for independently connecting said light sources to a source of current; an intermittently operable circuit interrupting device; and means for establishing an energizing circuit to one or the other of said light sources in series with the intermittently operable circuit interrupting device to project intermittently a light through the light penetrable area of said casing closure.

2,159,497
CHROMIUM-NICKEL STEEL
Frederick M. Becket, New York, and Russell Franks, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application July 10, 1936,
Serial No. 89,996
2 Claims. (Cl. 75—128)

1. Fully austenitic alloy steel hot worked and quenched article of manufacture composed of 16% to 25% chromium, carbon in an amount not over 0.1%; silicon in an amount not over 1%; columbium in an amount at least ten times the carbon content but not over 1.5%, the columbium serving to impart effective resistance to intergranular deterioration at elevated temperatures but promoting an undesirable formation of ferrite during hot working; and 7% to 10% nickel and 1.5% to 3% manganese which provide a fully austenitic structure in the quenched article without deleteriously affecting the hot working characteristics, the nickel being insufficient to produce a fully austenitic steel if the manganese were not present; and the remainder iron.

2,159,498
VENTILATING APPARATUS
Richard G. Birkholz, Milwaukee, Wis., assignor, by mesne assignments, to Midwest Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 5, 1937, Serial No. 135,067
5 Claims. (Cl. 98—116)

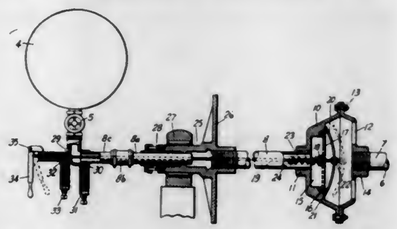


1. In a ventilating device, the combination of a casing, a door for said casing, door-opening mechanism including an electric motor and a speed-reducing transmission, a fan in said casing, an electric motor for said fan, means for conjointly controlling said electric motors, and yielding pressure means for closing said door when said first-named electric motor is deenergized, said transmission and first-named motor forming a retarder for limiting the rate of closing movement of said door by said yielding pressure means.

2,159,499
WATER-DISTRIBUTING SYSTEM FOR CONCRETE MIXERS
Clarence I. Bohmer and Robert F. Gatch, Columbus, Ohio, assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application March 30, 1938, Serial No. 198,968
2 Claims. (Cl. 259—168)

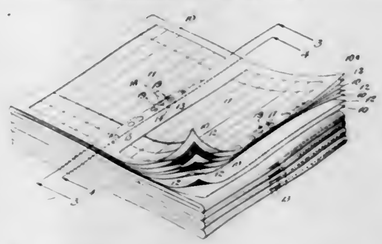
1. In combination, a mixer, a water-distribut-

ing system, said water-distributing system including a pipe supported axially within the mixing drum, said pipe being composed of front and rear sections, a water-distributing device between the ends of the adjacent sections, said water-distributing device comprising a housing mounted on the forward section of the pipe, said housing being of substantially frusto-conical form and



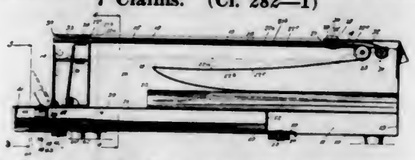
being directed rearwardly, a spider secured to the rear end of said housing and connected to the rear section of the pipe, a valve disk disposed within said housing, a seat for said disk, said disk having a convex surface on the side opposite the valve seat, and a rod connected to said disk and extending through the front section of said pipe to a point outside of said mixing drum for actuating said valve disk.

2,159,500
MANIFOLDING
Carl W. Brenn, Montclair, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application September 12, 1929, Serial No. 392,006
16 Claims. (Cl. 282—12)



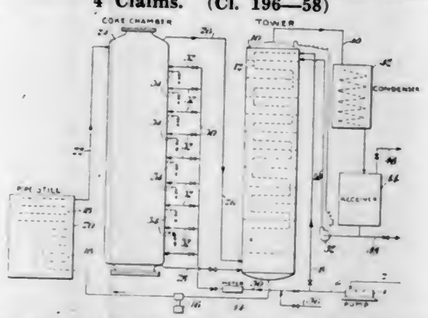
1. A manifolding pile comprising a plurality of continuous worksheet strips each having a succession of forms or sheet lengths separated by lines of severance; a continuous carbon sheet interleaved between each two adjacent worksheet strips; means located at intervals along the pile of superposed strips at the lines of severance for securing all of the strips of the pile together in desired relation with the lines of severance of the several strips in registration, until the pile is severed along said lines to remove a set of written forms; means located at intervals along the pile of strips for securing less than the total number of strips together in desired relation, said second-named means being located between the successive lines of severance so as to hold certain of the worksheets and interleaved carbon collated together subsequent to the severance of the set of form-lengths from the superposed strips; and sheet weakening means in the worksheets whereby one may be separated from the others of the worksheets constituting the group which is secured together by the second-named means.

2,159,501
MANIFOLDING MACHINE
Carl W. Brenn, Montclair, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application April 5, 1934, Serial No. 719,133
7 Claims. (Cl. 282—1)



1. In a manifolding machine, a frame divided horizontally to form a supply compartment for continuous record strips and a storage compartment for record slips severed from one of said strips, one end of said storage compartment projecting beyond the upper portion of the frame and having an entrance opening in its projecting portion for receiving record slips; a loose-leaf binder supported in said record compartment and including a filing pin device to receive apertures in the record slips and hold the latter in registration on the binder when placed one after another in said record compartment; and means in the record compartment to engage said filing pin device for detachably locking said binder in said compartment.

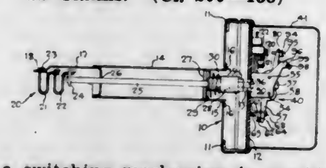
2,159,502
PROCESS FOR CRACKING MINERAL OILS
Hugh M. Corrough, Tulsa, Okla., assignor to Power Patents Company, Hillside, N. J., a corporation of Maine
Application November 2, 1934, Serial No. 751,139
4 Claims. (Cl. 196—58)



2. In the process of cracking heavy hydrocarbon oils for the production of coke and gasoline in which a heavy hydrocarbon oil is conducted in a confined stream of restricted cross section through a heating zone wherein the oil is heated to a cracking temperature and cracked to produce a substantial proportion of gasoline, and in which the resulting heated cracked products are discharged at approximately the temperature at which they leave the heating zone into the upper portion of an enlarged coking chamber wherein vapors are permitted to separate from unvaporized residual oil and where coke formation from substantially the entire separated residual oil is permitted to take place, the improvement which comprises heating the oil stream in said heating zone to a temperature sufficiently high to produce a gasoline of substantially higher octane value than that normally produced in a cracking and coking operation of the type referred to, which temperature

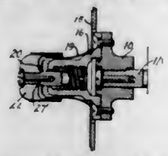
is too high for the production of a readily removable hard firm marketable coke in said chamber from the separated residual oil, removing the separated vapors from the upper part of the enlarged chamber and separating out the gasoline therefrom, maintaining the separated residual oil at a coking temperature in said chamber by its contained heat, controlling the coking of the residual oil in said chamber to obviate the adverse effect of the high temperature to which the residual oil products were heated in the heating zone by introducing into said chamber at approximately the coke level as it rises in said chamber a small proportion of a relatively cool heavy residual hydrocarbon oil based on the quantity of charging stock, to promote the formation of a firm hard marketable coke from the unvaporized residual oil separated out in said chamber and the introduced residual oil.

2,159,503
SWITCHING MECHANISM
Frederick S. Denison, William E. Harrison, and Ernest M. Miller, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 2, 1937, Serial No. 118,782
22 Claims. (Cl. 200—138)



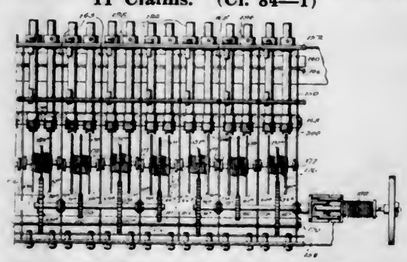
1. In a switching mechanism in combination, a condition responsive element, a rod movable thereby, teeth on said rod, a rotatable toothed member, the teeth on said rod and said member coacting, an arm movable by said toothed member, stops for said arm, a connection between said arm and said toothed member permitting continued movement of said toothed member after said arm has been stopped, a first contact carried by said arm, and a second contact positioned for engagement with said first contact.

2,159,504
DISK CHART HUB
Paul F. K. Erbguth, Brooklyn, N. Y., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y., a corporation of New York
Application September 18, 1937, Serial No. 164,445
6 Claims. (Cl. 234—75)



6. In a chart recorder including a shaft for moving a chart having a hole therein, the combination of a hub assembly attachable to the shaft and having a portion for axially guiding the chart to an operative position, a cap threaded on the outer end of said hub assembly, and chart-engaging means rotatably mounted on said cap and having chart-engaging portions, the chart-engaging portions and said hub assembly adjacent to the guiding portion being so configurated that the chart engaging portions on the chart-engaging means will move substantially axially when approaching engagement with the chart when the cap is threaded downwardly on the hub assembly.

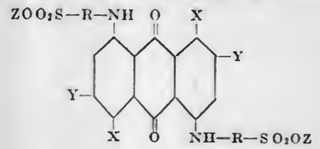
2,159,505
ELECTRIC ORGAN
Laurens Hammond, Chicago, Ill.
Application June 12, 1937, Serial No. 147,935
11 Claims. (Cl. 84—1)



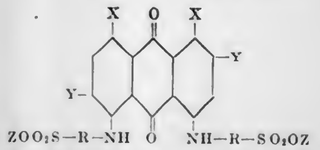
1. In an electrical musical instrument, the combination of a set of solo generators of currents having the frequencies of the tones of the tempered musical scale, and plurality of chorus generators arranged to be connected respectively in parallel with said generators, and generating currents of frequencies differing from those generated by their associated solo generators by an amount in the order of 0.4%, and means for connecting said chorus generators in parallel with their respective solo generators.

2,159,506
ANTHRAQUINONE DYESTUFFS CAPABLE OF BEING CHROMED
Georg Kränzlein, Hans Schlichenmaier, and Theodor Meissner, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 26, 1937, Serial No. 161,160. In Germany September 26, 1936
5 Claims. (Cl. 260—372)

1. The members of the group consisting of compounds of the general formulae:



and



wherein X represents a member of the group consisting of hydroxyl, amino, alkylamino and arylamino, Y represents a member of the group consisting of hydrogen and chlorine, Z represents a member of the group consisting of hydrogen and an alkali metal atom and R represents the radical of an aromatic ortho-hydroxycarboxylic acid.

2,159,507
ISOMERIZATION OF ALKYLENE OXIDES
George H. Law, South Charleston, and Raymond W. McNamee, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application January 22, 1936, Serial No. 60,190
12 Claims. (Cl. 260—601)

12. In a process for the production of aldehydes and alcohols by the isomerization of a 1,2 alkylene

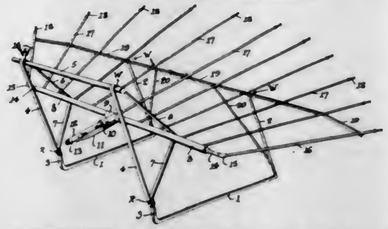
oxide having two to four carbon atoms in the molecule, the use of a catalyst essentially comprising an alum and a small proportion of an oxidation catalyst.

2,159,508

MANIFOLD COOLED SKATING POND SPRAY

Henry Masbruch, Platteville, Wis.

Application January 12, 1938, Serial No. 184,661
3 Claims. (Cl. 299—56)



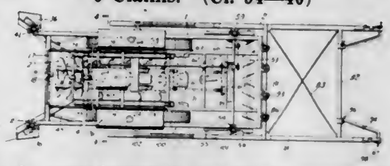
1. A manifold cooled skating pond spray, comprising a pair of sled runners, a supporting frame connected to the end of said sled runners, a pair of water distributing pipes, means for coupling said distributing pipes to a hose, a series of radiating pipes connected to the water distributing pipes and supported on the framework of the device, said water distributing pipes having adjustable spray nozzles.

2,159,509

APPARATUS FOR BUILDING ROADS

Joseph H. Mosel, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application April 27, 1937, Serial No. 139,230
6 Claims. (Cl. 94—40)



1. A road-building machine comprising a frame, a longitudinally extending mixing compartment carried by the frame, a longitudinally extending rotatable mixing member disposed in said compartment, a rotatable screw spreading member carried by said frame for spreading material discharged from said mixing compartment, and means for vertically adjusting said screw spreading member, said screw spreading member being so disposed that as the machine moves along it will contact with the material previously discharged from the rear end of said mixing compartment.

2,159,510

METHOD OF COATING COPPER OR ITS ALLOYS WITH TIN

Arnold E. Pavlish and John D. Sullivan, Columbus, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio

No Drawing. Application April 5, 1937, Serial No. 135,081
5 Claims. (Cl. 91—68.3)

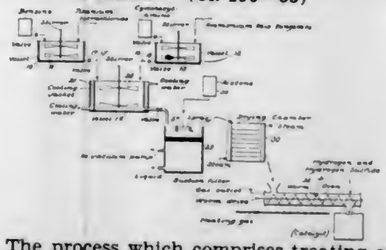
1. The method of forming an adherent immersion coating of tin on the surface of copper or its alloys, said method consisting essentially in contacting said surface with an alkaline aqueous solution containing dissolved tin in the stannous condition and a soluble cyanide, the cyanide being in a concentration greater than 7 grams per liter.

2,159,511

CARRYING OUT CATALYTIC REACTIONS

Mathias Pier, Heidelberg, and Walter Simon and Paul Jacob, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a corporation of Delaware

Application January 9, 1935, Serial No. 1,022
In Germany January 11, 1934
7 Claims. (Cl. 196—53)



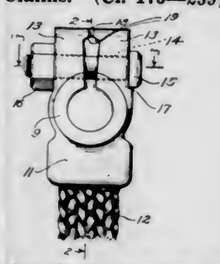
1. The process which comprises treating combustible carbonaceous materials heavier than gasoline under conditions to effect destructive hydrogenation at a temperature between 300° C. and 700° C., under superatmospheric pressure and in the presence of a metal sulphide catalyst which has been prepared by dispersing a thio salt in an inert ordinarily liquid medium, said thio salt being of the form of a salt of an oxygen acid of a metallic element the oxygen of which has been replaced by sulphur, dispersing in an inert ordinarily liquid medium such a compound of a heavy metal as is capable of entering into reaction with said thio salt with the formation of a metal sulphide, and combining the dispersion of the said thio salt with the dispersion of said metal compound so that reaction therebetween takes place.

2,159,512

BATTERY TERMINAL CONNECTOR

Herbert J. Rich, Glendale, Calif., assignor to National Cable & Metal Co., Glendale, Calif., a corporation of California

Application September 14, 1937, Serial No. 163,757
5 Claims. (Cl. 173—259)



1. A battery terminal connector comprising an apertured split body formed of soft deformable metal and adapted to be clamped around a battery terminal, opposed spaced lugs of substantially uniform length extended outwardly from said body on opposite sides of the split thereof and being formed integral with said body and having a cross sectional area equal at least to that of the body and having bolt receiving openings therein, a bolt extended through said openings, a nut associated with said bolt for effecting a clamping of said connector and a relatively thin deformable web portion formed integral with and joining said lugs at a point between the outer ends of the latter and said bolt openings and adapted

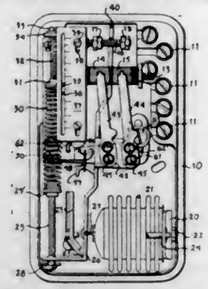
to be distorted to permit of the movement of the lugs towards one another when the connector is tightened.

2,159,513

CONTROL DEVICE

Daniel G. Taylor, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 7, 1937, Serial No. 157,933
18 Claims. (Cl. 74—99)



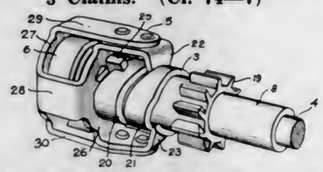
1. In a mechanim of the character described, a pivoted lever, an adjustable spring member constantly tending to rotate said lever in one direction, a condition responsive member tending to rotate the lever in the opposite direction, a second lever, a tension link connecting said two levers and preventing separation thereof, an adjustable tension spring normally tending to cause movement of said second lever away from said first lever and thereby causing movement of said first lever in a direction to oppose the action of said condition responsive member, the arrangement being such that when the contact points of said link with said two levers are aligned with the pivot point of said first lever said tension spring has no rotative effect on said first lever, but as the condition responsive element rotates said first lever out of the above mentioned position said second spring increasingly resists said motion.

2,159,514

STARTER FOR ENGINES

Arthur H. Abell, New York, N. Y.

Application April 7, 1936, Serial No. 73,068
3 Claims. (Cl. 74—7)



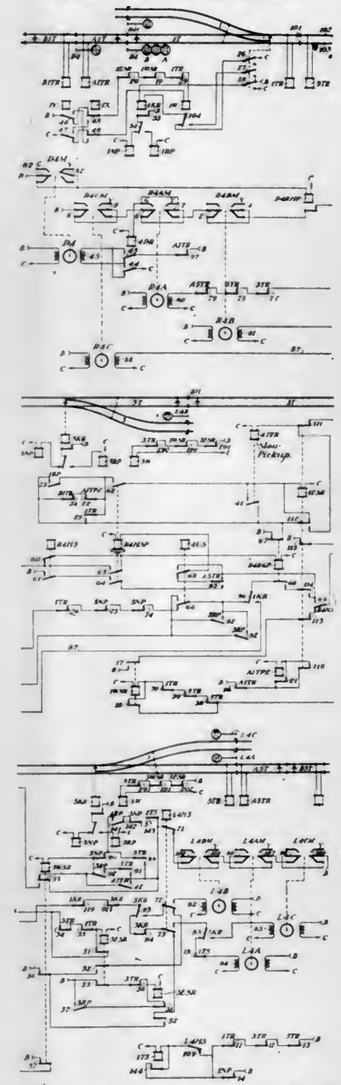
1. In a starter for engines, the combination of a motor-driven shaft, a sleeve with gear teeth on one end, mounted on the shaft and adapted to turn and slide thereon, a driving member also mounted on the shaft and adapted to turn and slide thereon under the control of a spring with one end attached to the shaft and the other end attached to said driving member comprising two parallel discs concentric with the shaft, said discs being connected by an integral bar and each having two similar diametrically opposite arms, the arms on one disc terminating in runners co-acting with diametrically opposite cam grooves in the aforesaid sleeve, the arms on the other disc overlapping the arms on the first disc and being affixed thereto.

2,159,515

RAILWAY TRAFFIC CONTROLLING APPARATUS

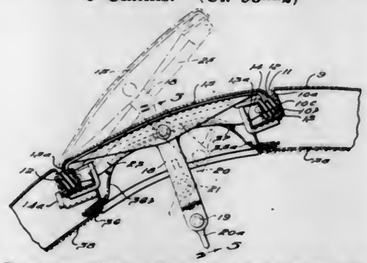
Earl M. Allen, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application January 22, 1935, Serial No. 2,845
Renewed January 2, 1937
28 Claims. (Cl. 246—134)



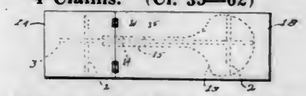
27. In combination, a stretch of railway track containing a switch, a signal for governing traffic movements over said switch, a manually controllable device, and means controlled by said device for clearing said signal only under clear track conditions in said stretch if said switch occupies a given position and for clearing said signal independently of said track conditions in said stretch if said switch occupies a second given position.

2,159,516
VENTILATOR MECHANISM
Albert P. Ball, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application September 28, 1936, Serial No. 102,882
6 Claims. (Cl. 98—2)



1. In a ventilator for a vehicle body provided with a ventilating opening in a wall thereof, a movable closure for said opening disposed within the confines of said wall when closed, a bracket located within the opening, and means for supporting said closure for movement into angularly related open positions one reverse to the other, said means comprising a pair of pivotally interconnected links, one thereof being connected to said closure at a point approximating the center thereof and the other to said bracket.

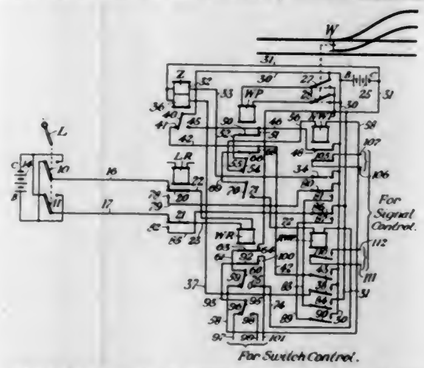
2,159,517
COMBINED BENCH AND BLACKBOARD
Clarence Eldred Beeman, Corvallis, Oreg.
Application December 13, 1937, Serial No. 179,510
4 Claims. (Cl. 35—62)



3. A foldable combined bench and writing device, comprising a sectional top including a stationary top member, a seat member disposed in a plane below the top member, means secured to the underside of the top member and seat member for holding them relatively fixed, a movable top member hinged to an end of the stationary top member and movable to a position at an inclined angle to the seat member or to a position in alignment with the stationary top member to rest upon the seat member, the underside of the movable top being prepared to provide a writing surface for use when the movable top member is in its inclined position, abutment means on the movable top member and the seat member respectively to hold the movable top member in its inclined position, and legs secured to and depending from the stationary top member and the seat member.

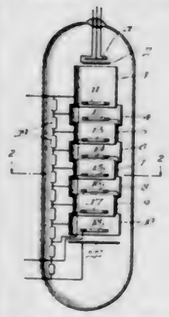
2,159,518
SWITCH CONTROL AND INDICATION SYSTEM
Charles W. Bell, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 21, 1938, Serial No. 236,291
18 Claims. (Cl. 246—219)

1. In combination, a railway track switch movable between a normal and a reverse position, means for effecting movement of said switch between its two positions, a normal indication device and a reverse indication device, a source of current, an auxiliary device controlled by said indication relays, said auxiliary device having an element movable between a first position in which it establishes connection from said source of current to a first supply circuit and a second position in which it establishes connection from said source of current to a second supply circuit, the normal indication device being operative when energized to effect movement of said auxiliary device element to its first position, the reverse indication device being operative when energized to effect movement of the auxiliary device element to



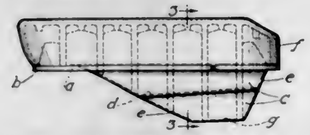
its second position, a member movable in accordance with movement of the switch, said member being operative when and only when the switch is in the normal position to effect connection from the second supply circuit to the winding of the normal indication device and being operative when and only when the switch is in the reverse position to effect connection from the first supply circuit to the winding of the reverse indication device, said indication devices controlling means for governing movement of trains across said switch.

2,159,519
SECONDARY EMITTER TUBE
Gerhard Brauer, deceased, late of Berlin-Halensee, Germany, by Richard Brauer and Magdalene Brauer, née Naumann, heirs, Luneburg, Germany, and Ernst Ruska, Berlin-Zehlendorf, Germany, assignors to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application February 17, 1937, Serial No. 126,312
In Germany February 20, 1936
5 Claims. (Cl. 250—175)



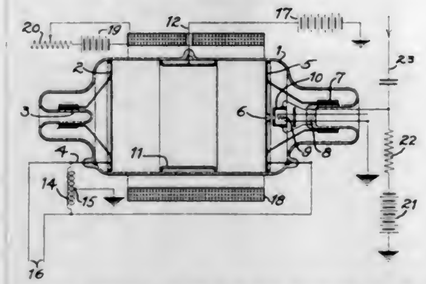
1. An electron multiplier comprising an evacuated envelope having therein a primary electron source, means for modulating said source in response to a signal, and a plurality of cylindrical cathodes disposed in axial alinement with said primary source, said cylindrical cathodes having secondarily emissive interior surfaces, a plurality of ring anodes disposed within said cathodes and axially alined with said primary source, each of said ring anodes being connected to one of said cathodes disposed farther from said primary source, and a collecting anode alined with said primary source and said ring anodes.

2,159,520
SUPPORTING SURFACE FOR MATTRESSES, CUSHIONS, AND THE LIKE
Wilfred Henry Chapman, Stechford, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application March 23, 1938, Serial No. 197,550
In Great Britain January 27, 1937
10 Claims. (Cl. 155—179)



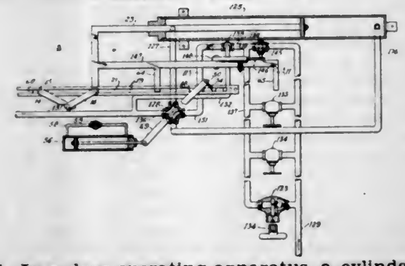
3. A supporting base for upholstery and the like having an upper upholstery supporting surface provided with a well opening, a bottom upholstery supporting surface below said opening, stepped side walls forming upholstery supporting ledges between said upper and said bottom surface, and an upholstery structure of resilient material extending over said upper surface and said well opening and being of increased depth over said well opening to extend downwardly to and be supported on said bottom and said ledge surfaces.

2,159,521
ABSORPTION OSCILLATOR
Philo T. Farnsworth, San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware
Application March 9, 1936, Serial No. 67,891
6 Claims. (Cl. 250—36)



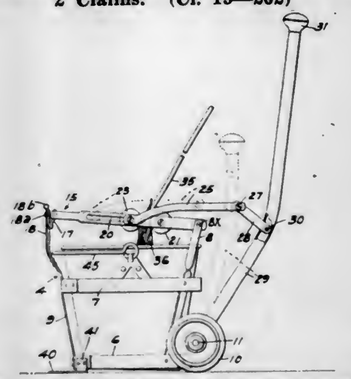
5. The method of oscillation generation which comprises creating a centrally directed accelerating field, generating a stream of electrons outside of said field and directed toward the center thereof to cause oscillation of said electrons about said center, controlling the number of electrons from said stream which enters said field solely by changes of potential within the field due to the oscillation of said electrons about the center of said field.

2,159,522
DOOR-OPERATING APPARATUS
Homer R. Fyke, Los Angeles, Calif., assignor to Thomas O. Haynes, Laguna Beach, Calif.
Application July 30, 1936, Serial No. 93,379
7 Claims. (Cl. 121—44)



1. In a door operating apparatus, a cylinder, a piston in the cylinder, means operatively connected with the piston for opening and closing a door, a fluid supply conduit having two branches, a valve in each branch conduit, one of said valves being capable of being opened manually, a fluid discharge conduit, valve means for selectively connecting the fluid supply conduit with the cylinder at either side of the piston, said valve means at the same time automatically connecting the discharge conduit with the cylinder at the opposite side of the piston, mechanism including said piston actuated by the opening of said manual valve to initiate opening movement of the door and to initiate movement of the piston, means actuated by said initial movements for automatically opening the other branch-conduit valve, the latter valve being connected to continue the opening of the door automatically, said elements closing the door and automatically closing the latter valve, at predetermined points in the operation of the apparatus.

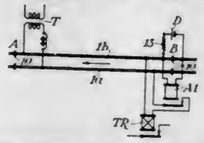
2,159,523
MOP WRINGER
Clarence B. Greenstreet, Elsinore, Calif.
Application February 11, 1938, Serial No. 189,977
2 Claims. (Cl. 15—262)



1. In a device of the kind described, a skeletal frame for removably supporting a mop pail, said frame comprising a basal hoop, and a second hoop, a front upstanding member, and two upstanding rear members supporting said second hoop in an upwardly spaced relation to said basal hoop, a floor engaging member fastened to said basal hoop adjacent said front member and radially projecting therefrom, pail supporting means con-

nected to said basal hoop adjacent said front member and directed rearwardly therefrom at an angle to points where they fasten to and upturn from the rear portion of said basal hoop adjacent to said two upstanding rear members, a shaft mounted on the upturned extremity portions of said means, wheels mounted on opposite ends of said shaft, an upstanding handle pivotally mounted on said shaft, a mop wringing frame pivotally mounted on the upper ends of said two upstanding rear members to swing from an operative position wherein the front portion of said wringing frame is detachably attached to said front upstanding member by latch means, to a rearward inoperative position wherein said mop pail may be removed from said skeletal frame, said mop wringing frame being yoke shaped, there being slots in the sides of the yoke, a rotatable laterally restrained wringer roller mounted in said yoke shaped frame with the ends thereof journalled in the sides of said yoke at points adjacent said slots, a wringer roller mounted in said slots movable to and from an operative relation with said laterally restrained roller, and means connected to the ends of said movable roller operatively connecting it with said handle.

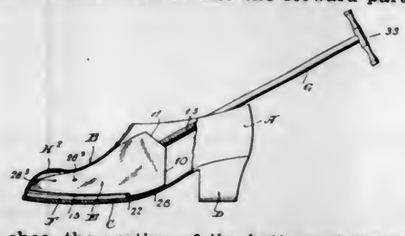
2,159,524
RAILWAY SIGNALING APPARATUS
Lars O. Grondahl, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application May 17, 1935, Serial No. 22,052, now Patent No. 2,108,483, dated February 15, 1938. Divided and this application September 16, 1937, Serial No. 164,186
11 Claims. (Cl. 246—34)



1. In combination, a railway track section, a track circuit for said section including a first source of current, the respective rails of the section and a track relay; a second circuit including a second source of current and a normally energized auxiliary relay connected from a rail of said section to a rail of an adjoining section electrically separated by an insulated joint, and a front contact of said auxiliary relay included in said track circuit, whereby said auxiliary relay will respond to the shunting of current therefrom as the wheel of an approaching vehicle bridges the insulated joint thus opening said front contact to insure the release of said track relay.

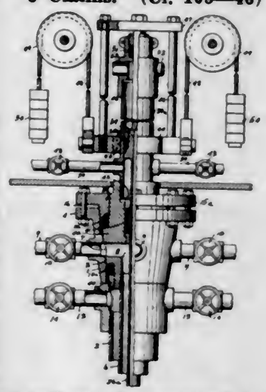
2,159,525
SHOE FITTER DEVICE
John L. Harris, New York, N. Y.
Application June 29, 1936, Serial No. 87,949
6 Claims. (Cl. 12—128.6)

1. A shoe conforming device comprising a base member to be inserted in the forward part of a shoe, a separable plate member pivotally attached to the middle portion of the bottom of said base member and extending forwardly to press said base member when separated therefrom against the forward upper portion of the shoe, a cone-shaped wedge member to cause separation between said separable member and said base member, said wedge member being received in a recess in the bottom of said base member and being positioned so that one side thereof will slide longitudinally along the inside face of said separable member, and manually operated means to control said wedge member to separate said separable member and said base member after insertion thereof into the forward part of



the shoe, the portion of the bottom of the base member behind said pivoted attachment having a roughened gripping surface, said gripping surface comprising a piece of rubber attached to the base member behind the pivotal attachment and having a corrugated face and the plate being ungrooved.

2,159,526
PUMP
Granville A. Humason, Houston, Tex.
Original application December 30, 1935, Serial No. 56,655. Divided and this application February 13, 1937, Serial No. 125,592
6 Claims. (Cl. 103—46)

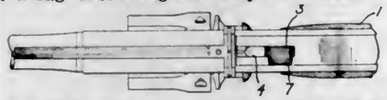


1. A deep well pump comprising a casing head having an inside seat and an outlet, a tubular hanger on said seat for supporting a tubing in the well, a tubing on said hanger, said hanger having an outlet in communication with said casing head outlet for the outflow of fluid from the tubing, a cylinder associated with said hanger, a piston in said cylinder, a pump rod for connecting said piston to a pump in the well, a plunger on said rod hydraulically operated means to operate said piston to operate said pump plunger, and means supported on the hanger and effective to deliver fluid under pressure into the well liquid to assist in discharging said liquid from the well.

2,159,527
FIREARM HAMMER
Dean W. King, San Mateo, Calif.
Application July 10, 1937, Serial No. 152,970
2 Claims. (Cl. 42—65)

1. In combination with a pistol having a frame,

a hammer mounted on said frame and comprising a body including a head, a thumb piece extending backward and upward from said head, and a lug extending laterally from said thumb



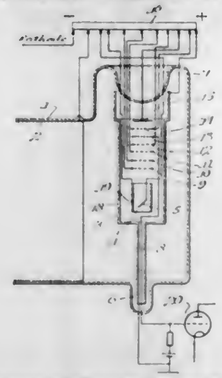
piece and forming an extension thereof beyond the plane of the body of said hammer, said lug being spaced from said frame to permit the thumb of the user to engage said lug with a rolling motion without striking said frame.

2,159,528
CATALYTIC OXIDATION OF NITROSYL CHLORIDE AND NITRIC OXIDE
William C. Klingelhoefer, Jr., Syracuse, N. Y., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application February 10, 1937, Serial No. 125,139
21 Claims. (Cl. 23—157)

1. In a process for the decomposition of nitrosyl chloride to nitric oxide and chlorine, the improvement which comprises passing said nitrosyl chloride into contact with a catalyst comprising an aluminum zeolite.

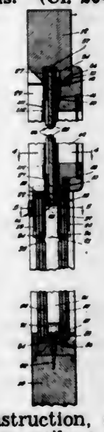
11. In a process for the oxidation of nitric oxide to nitrogen peroxide the improvement which comprises passing said nitric oxide with oxygen into contact with a catalyst comprising an aluminum zeolite.

2,159,529
ELECTRON MULTIPLIER
Hans-Wolfgang Langenwalter, Klein-Machnow, and Ernst Ruska, Berlin-Zehlendorf, Germany, assignors to the firm Fernseh Aktien-Gesellschaft, Zehlendorf, near Berlin, Germany
Application August 19, 1937, Serial No. 159,992
In Germany September 1, 1936
3 Claims. (Cl. 250—175)



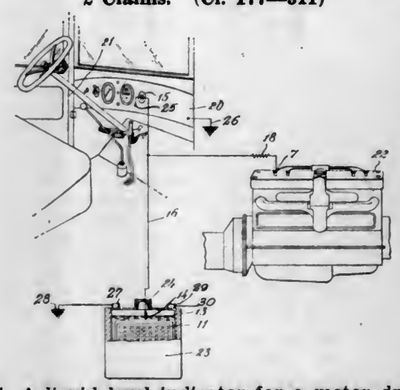
1. An electron multiplier comprising an evacuated envelope having therein an accelerating electrode having an aperture therein, a decelerating cylinder disposed within said accelerating electrode opposite said aperture and having a smaller aperture in alinement with said accelerating electrode aperture, a secondarily emissive plate positioned in alinement with said apertures and obliquely thereto, a plurality of accelerating electron-permeable grids in alignment with said secondarily emissive plate, an electron-permeable signal grid, a decelerating grid, and a collecting plate disposed sequentially beyond said accelerating grids, said signal grid, declerating grid, a collecting plate disposed within said first mentioned accelerating electrode, and individual leads from said electrodes sealed through said envelope.

2,159,530
COMBINATION DOOR
John S. Murphy, San Gabriel, Calif.
Application September 28, 1937, Serial No. 166,149
9 Claims. (Cl. 20—38)



1. In a door construction, a pair of spaced stiles, top and bottom rails, a lock rail dividing the space defined by said rails and stiles into upper and lower openings, a pair of panels closing said lower opening and spaced apart to define a pocket therebetween, said lock rail comprising a pair of metal channels inverted to receive the upper edge of one of said panels in each, and means fastening the ends of said channels to said stiles.

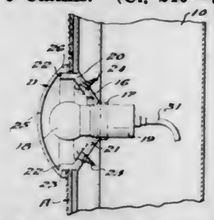
2,159,531
LIQUID CONTENT INDICATOR
Herbert S. Polin, Sands Point, N. Y.
Application August 29, 1935, Serial No. 38,383
2 Claims. (Cl. 177—311)



1. A liquid level indicator for a motor driven device including an internal combustion engine having a grounded ignition system with a source of high potential and a liquid container for comparatively low resistance liquid, a low resistance means for grounding the liquid, an electrode in said container at a preselected level, a high impedance indicator connected between said elec-

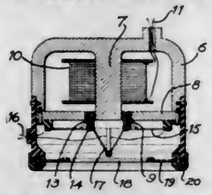
trode and ground, and a high impedance connection from said electrode to said high potential source.

2,159,532
PILLAR-LIGHT ASSEMBLY
Alvin W. Prance, Pleasant Ridge, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 28, 1936, Serial No. 82,332
6 Claims. (Cl. 240—7.1)



1. In combination with a vehicle door pillar of channel formation having a metal reinforcing member for closing the open side of said channel, said member having a recess formed therein terminating in a centrally disposed socket portion for supporting a lamp bulb, of a light assembly associated with said pillar and comprising a reflector removably mounted in said recess and having a central opening registering with said socket portion, a lamp bulb located within said reflector, and a lens removably attached to said reflector for concealing the same and said lamp bulb.

2,159,533
RECORDING SYSTEM
Lyndon C. Rayment, Oakland, Calif.
Application January 27, 1936, Serial No. 61,067
3 Claims. (Cl. 181—24)



1. In combination with an amplifier and an output circuit including a sound reproducer, an input device comprising a casing containing an exposed contact diaphragm movable in response to movements of an object when applied thereto, and an internal microphone normally disconnected from said diaphragm, a sound-excluding barrier around the periphery of said diaphragm so arranged as to exclude sound from said diaphragm when said surface is applied to said object, said microphone being so positioned with relation to said diaphragm that the pressure of application of said surface to said object will move said diaphragm to connect said microphone thereto.

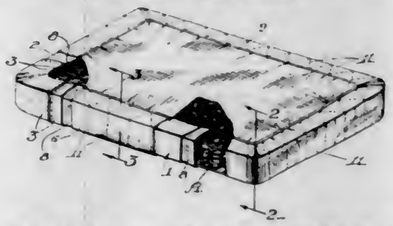
2,159,534
CATHODE RAY FOCUSING COIL
Ernst Ruska, Berlin-Zehlendorf, Germany, assignor to the firm Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application July 1, 1936, Serial No. 88,488
In Germany July 23, 1935
1 Claim. (Cl. 250—161)

In combination with a cathode ray tube, an electromagnetic focusing coil disposed thereabout, said coil having an axial dimension approximately equal to the ray path in said tube, and also



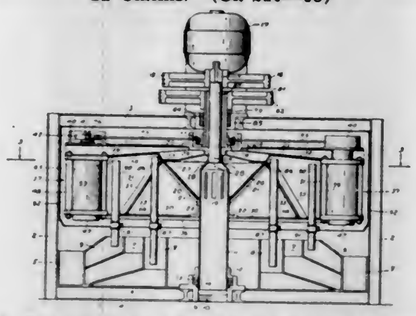
having a radial depth of windings which is less at the midpoint of said coil than adjacent the ends thereof.

2,159,535
BEDSPRING COVER
Albert Schulman, Philadelphia, Pa.
Application October 23, 1936, Serial No. 107,263
1 Claim. (Cl. 5—354)



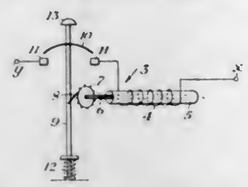
A bedspring cover having an overlay of ticking of less area than the spring to be covered and a peripheral pocket connected to the edges of the overlay and containing a band consisting of multiple plies of wefts formed of loosely twisted cotton yarns bound together by thin tightly twisted warps, the wefts being napped and felted to form a dense impenetrable sheet having a soft surface, and said pocket and band being of substantially channel-shape with parallel flanges adapted to engage the top and bottom surfaces of a bedspring.

2,159,536
CENTRIFUGAL SEPARATOR AND WRINGER
Clarence C. Searle, Maricopa, Calif.
Application March 23, 1937, Serial No. 132,511
11 Claims. (Cl. 210—68)



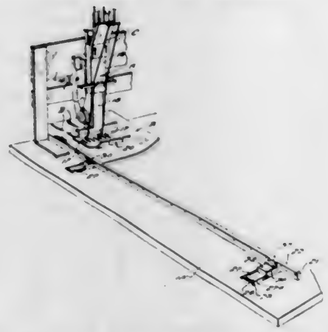
1. In a device of the type described, a rotatable bowl designed to receive mud, means for rotating the bowl, pairs of wringer rollers forming a part of the wall of the bowl, said rollers having resilient surfaces, means for rotating the rollers in each pair in a direction to catch and remove any foreign particles in the mud that might be forced against the rollers, said rollers in each pair contacting with each other for preventing fluid mud from passing therebetween, whereby the foreign particles are removed from the mud without the loss of any mud.

2,159,537
ELECTRICAL RECTIFIER INSTALLATION
Sydney Arthur Stevens, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 1, 1936, Serial No. 88,288
In Great Britain August 29, 1935
8 Claims. (Cl. 175—363)



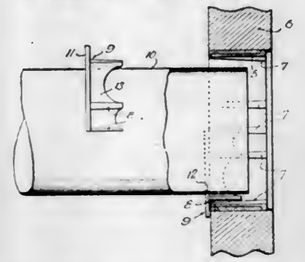
1. In combination, in an electrical rectifier installation of the kind adapted to deal with relatively large currents and comprising a cooling fluid circulating system, a contact for controlling the operation of the rectifier, means for biasing said contact to its open position, means including a fusible connection for maintaining said contact closed against the force of said bias, and a heater for said fusible connection located so as to be influenced by said cooling fluid circulating system for causing said connection to fuse and to allow said contact to open whenever said cooling fluid circulating system becomes ineffective irrespective of the current then being delivered by said rectifier installation.

2,159,538
GAUGE FOR SEWING MACHINES
Eugene Charles Zablocki, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application November 23, 1936, Serial No. 112,210
8 Claims. (Cl. 112—136)



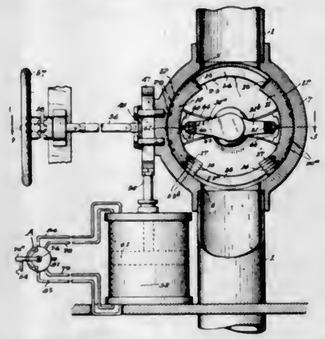
1. In a sewing machine having a sewing head and a bed over which work pieces are adapted to be guided toward the sewing head in a predetermined path, said head having means for applying a row or rows of stitching to said work pieces, a guide member engageable with the edges of the pieces for guiding the same in said path, means for adjusting the guide in a direction substantially normal to the path of travel of the work pieces, said adjusting means comprising an adjusting member secured to the guide and a supporting platen for the adjusting member, said platen having a plurality of longitudinally spaced transversely staggered locating holes, the adjusting member having a locating pin adjustable transversely thereof and cooperable with any one of said locating holes upon shifting the adjusting member longitudinally of the platen into any one of a plurality of positions corresponding to the positions of said holes.

2,159,539
CHIMNEY CONNECTOR
Arthur H. Klein, Milwaukee, Wis.
Application May 21, 1937, Serial No. 143,917
5 Claims. (Cl. 126—314)



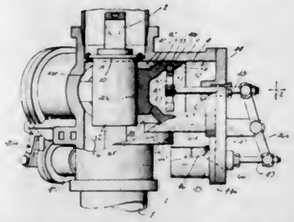
2. A smoke pipe connector adapted to connect a smoke pipe to a chimney, comprising, a thimble secured in the chimney, a wedge surface formed within said thimble, a collar adapted to surround the smoke pipe and to fit within the thimble, and a wedge member formed on said collar and adapted to engage with said first named wedge member to secure the thimble and collar in assembled relationship.

2,159,540
BLOWOUT PREVENTER
John W. MacClatchie, Los Angeles, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application January 28, 1936, Serial No. 61,153
11 Claims. (Cl. 166—15)



1. In combination, a housing having an opening communicating with a well bore, closure means for the opening comprising cooperating elements having flat abutment surfaces, and mountings for the cooperating elements adapting them for rotation for area contact of said abutment surfaces defining closed position of the closure means and also adapting them for radial displacement when in closed position for seating engagement with the housing responsive to subterranean pressure in the well bore.

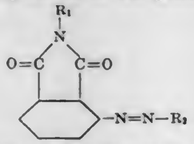
2,159,541
BLOWOUT PREVENTER
John W. MacClatchie, Newhall, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application May 19, 1937, Serial No. 143,477
4 Claims. (Cl. 166—15)



1. Closure means for a well casing, including a stationary body arranged to be mounted on a well casing, a non-rotatable member arranged for direct vertical movement into and out of said body, a rotatable member in said non-rotatable member and movable vertically therewith, a closure means in said body relatively radially contractible for sealing around said non-rotatable member, the portion of said closure means which is adapted to seal around said non-rotatable member being formed of packing material, and means functioning independently of pressure in the bore for exerting fluid pressure against said portion of said closure means for expansibly distorting said packing material for projection against and into sealing engagement with said non-rotatable member.

2,159,542
AZO DYESTUFFS
Carl Apotheker and Max Hartmann, Riehen, and Emil Merz, Binningen, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application November 13, 1937, Serial No. 174,488. In Switzerland November 16, 1936
6 Claims. (Cl. 260—165)

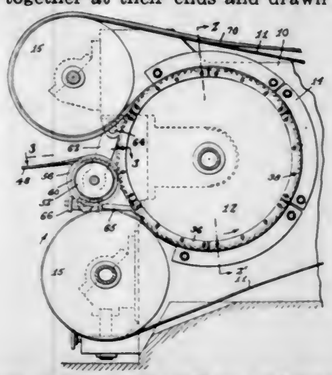
1. The azo-dyestuffs of the general formula



in which R_1 stands for a radical of the group consisting of alkyl, cycloalkyl, and aralkyl radicals, and R_2 stands for the radical of a coupling component selected from the group consisting of arylides of aromatic carboxylic acids, arylides of acids containing an active methylene group and hydroxynaphthalene sulfonic acids.

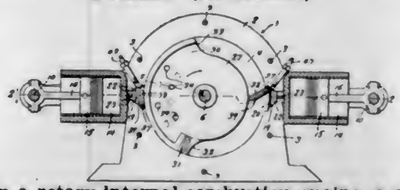
2,159,543
VULCANIZING MACHINE
Walter J. Baker, West Somerville, Mass., assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application October 1, 1937, Serial No. 166,802
16 Claims. (Cl. 18—6)

1. A vulcanizing drum having a cylindrical vulcanizing surface, relatively spaced rings extending about said surface and providing channel side walls cooperating with a bottom wall formed by said surface therebetween, one of said rings comprising a plurality of segmental sections connected together at their ends and drawn tightly



into contact with said surface, and means securing the segmental ring against outward movement along the drum.

2,159,544
ROTARY ENGINE
Clarence Bartlett and Lawrence Bartlett, Hartford, Ky.
Application February 12, 1937, Serial No. 125,498
1 Claim. (Cl. 123—15)



In a rotary internal combustion engine, a casing having an annular rotor chamber therein, a rotor in said chamber comprising a web in the plane of the chamber having a T-shaped sector like extension forming a circumferential flange fitting against the outer circumferential wall of said chamber and terminating at one end in a piston extending transversely of said chamber, a pair of gas inlet flap valves in said casing at diametrically opposite sides thereof closed alternately by wiping engagement of the extension past the same under rotation of said rotor in one direction and spring actuated to open inwardly of said chamber under control of said extension, said piston under rotation of the rotor in said one direction forming together with each valve in the open position of the latter a closed explosion pocket in said chamber in advance of the valve and an exhaust pocket in said chamber in the rear of the valve, said web extending through the inner wall of the chamber and being provided with oblique exhaust ports therein extending from the exhaust pocket inwardly of the casing beyond said inner wall of the chamber for the escape of exhaust gases out of said exhaust pocket.

2,159,545
BEARING
Wolfgang Bartosch, Vienna, Austria, assignor to the firm Carobronze Röhrenwerk Gesellschaft m. b. H., Vienna, Austria, a company of Austria
Application June 30, 1936, Serial No. 88,229
In Austria July 17, 1935
9 Claims. (Cl. 308—26)

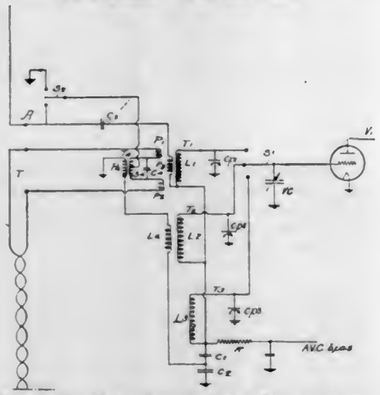
1. A plain bearing comprising a non-rotatable

inner sleeve for receiving a rotatable shaft or the like, a non-rotatable outer sleeve which may be inserted without adjustment in a casing and an intermediate annular yieldable metal member which is rigidly connected throughout its outer and inner circumferences to said inner sleeve and



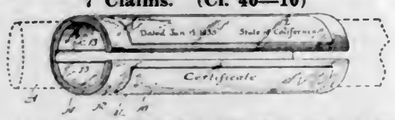
said outer sleeve, said yieldable member being sufficiently stiff to resist deformation in the case of pressures normal to the axis of the shaft but sufficiently deformable to enable said inner sleeve to take up an oblique position in the event of an oblique setting of the shaft before the breaking of the oil film therebetween.

2,159,546
ANTENNA COUPLING DEVICE FOR RADIO RECEIVERS
Brunton Bauer, Mount Airy, and Robert B. Albright, Philadelphia, Pa., assignors to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 5, 1936, Serial No. 114,486
11 Claims. (Cl. 250—20)



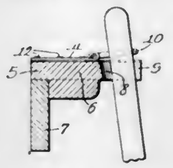
1. In an input system for a radio receiver, the combination of a circuit tunable to a desired signal, said tunable circuit having a grounded point, terminals for connecting an antenna to said system by means of a transmission line, a coil connected to said terminals, a first coupling circuit for connecting a tap on said coil to an ungrounded point in the tunable circuit, a second coil coupled to said first-mentioned coil, and a second coupling circuit for coupling said second coil to said tunable circuit.

2,159,547
CERTIFICATE HOLDER
Sigurd W. Bjorkquist, Whittier, Calif.
Application June 1, 1938, Serial No. 211,173
7 Claims. (Cl. 40—10)



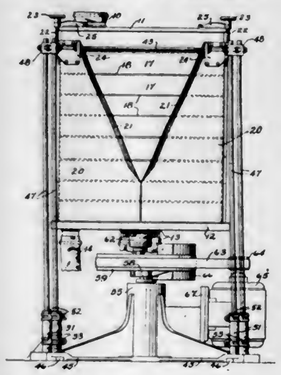
1. An article holder for attachment to a cylindrical support, said holder comprising a clip of resilient material in the form of a longitudinally split tube having retaining members extending inwardly from its longitudinal edges and spaced from the inner side of the tube to retain the article between said inner members and inner wall of the tube.

2,159,548
BROOM AND MOP HANGER
Carson Plummer Buchanan, Denton, Tex.
Application July 22, 1938, Serial No. 220,763
4 Claims. (Cl. 211—66)



1. A rack of the class described, comprising a body portion having notches extending inwardly from one edge thereof, rings pivotally mounted directly over the notches and having their lower sides resting on the body portion, said notches and rings adapted to receive handles of implements supporting the implements by frictional contact with the handles.

2,159,549
SIFTER
Thomas G. Cecka, Buffalo, N. Y., assignor to International Milling Company, Buffalo, N. Y.
Application June 25, 1936, Serial No. 87,198
17 Claims. (Cl. 209—325)



6. A support for a sifter housing including a slender flexible rod forming a connection between a supporting structure and a sifter housing, and a resilient member having a part thereof secured to said supporting structure and another part secured to one end of said rod, and forming the sole connection between said rod and said supporting structure, to permit said support to yield in the direction of its length, said resilient member also flexing to enable said rod to swing relatively to said supporting structure.

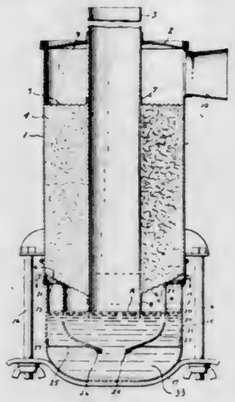
9. A sieve including a frame having screening material secured thereto in a position to support the material to be sifted on the upper face thereof, a plurality of short plates extending above said screening material and in close proximity thereto for advancing the material to be sifted across said screening material during movement

of the sieve, a coarse mesh screen arranged below and substantially parallel to said screening material for supporting a cleaning member for engaging the underneath surface of said screening material for cleaning the same, and means for imparting movement to said sieve in a substantially circular path approaching but not materially more than about one inch radius at a speed of about 300 revolutions per minute.

2,159,550
INSECTICIDAL REPELLANT
James R. Cross, St. Petersburg, Fla., assignor of one-half to T. Frank Hobson, St. Petersburg, Fla.
No Drawing. Application January 3, 1936, Serial No. 57,456
4 Claims. (Cl. 134—40)

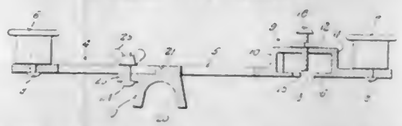
4. A coating for surfaces exposed to water embodying the juices of plant life the principal ingredient of which is catechutannic acid.

2,159,551
AIR CLEANER
Rex C. Darnell, Detroit, Mich., assignor, by mesne assignments, to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application January 26, 1938, Serial No. 186,970
7 Claims. (Cl. 183—15)



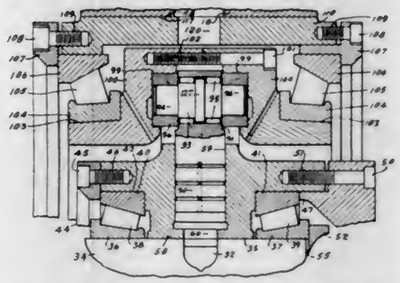
7. An air cleaner comprising a casing, an air filtering element therein, a receptacle for containing a body of oil below the filtering medium with the static level normally spaced below the lower end of the filtering medium, an air inlet tube extending through the casing and opening into the receptacle, air outlet means above the filtering medium, means in the receptacle for dividing the oil into upper and lower oil bodies, said means lying above the bottom of the receptacle and having an opening in substantial alignment with the open end of the inlet tube, and means for dividing the portion of the receptacle above the partition into an air passageway leading from the inlet tube to the filtering medium and into a quiescent zone in communication with the filtering medium, said means having passageways for connecting the quiescent zone with the air passageway whereby to provide a circuitous flow path for the oil above the partition, to-wit, from the air passageway into the filtering medium, thence into the quiescent zone and back into the air passageway.

2,159,552
ADJUSTABLE LAWN MOWER SHARPENER
John L. Davis, Mobile, Ala.
Application April 26, 1938, Serial No. 204,438
1 Claim. (Cl. 76—82.1)



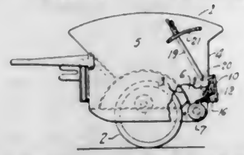
A lawn mower sharpener, the combination with a file, an operating bar having an elongated slot, a saddle adjustably mounted on one end of said bar, said saddle having a stud receivable in said slot and adapted to slide longitudinally therein, a lateral stud integrally formed on said saddle and disposed at right angles to the first-mentioned stud, said lateral stud having an opening communicating with the slot in said operating bar, a bolt passing through the aperture of the stud and the elongated slot of said bar and a nut associated with the bolt for holding the parts in assembled and adjustable position, the opposite end of said bar being provided with an integral boxing, said boxing extending upwardly above the operating bar, said boxing being open at each end to accommodate the file, and having a slotted diagonally extending opening in its bottom portion to expose a portion of the file for contact with the blade to be sharpened, said opening defining shoulders upon which the file is seated, and clamping means carried by the boxing for securing the file therein.

2,159,553
HYDRAULIC PUMP OR MOTOR
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Press Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application June 24, 1936, Serial No. 87,028
2 Claims. (Cl. 103—161)



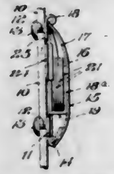
1. In combination in a hydraulic pump or motor, a primary rotor having cylinder bores, a secondary rotor encircling said primary rotor and having a guideway, pistons with transverse bores therein reciprocable in said cylinder bores, a plurality of spaced annular assemblies of needle bearings mounted in each bore, means for spacing the adjacent ends of said needle bearings in said assemblies apart from each other axially, a piston crosshead shaft rotatably mounted in said needle bearings within each transverse piston bore, and rollers mounted on each crosshead shaft on opposite sides of each piston and engaging said guideway, whereby to eliminate the cramping action of said needle bearings in said assemblies arising from the bending of said crosshead shaft during the operation of said pump or motor.

2,159,554
ROAD MATERIAL SPREADING MACHINE
Charles L. George, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio
Application April 16, 1937, Serial No. 137,359
7 Claims. (Cl. 221—130)



1. The combination with a material discharge hopper of the class described having a sidewise opening discharge passage and a feed roll forming the bottom wall of said passage, of a shutter bar projecting downwardly and inwardly into said passage and bodily movable backwardly and forwardly therein with its lower edge adjacent to the feed roll, means supporting said shutter for compound pivotal adjusting movements to vary its spacing with respect to the feed roll, and means connected to said bar and operable to impart predetermined adjusting movements thereto.

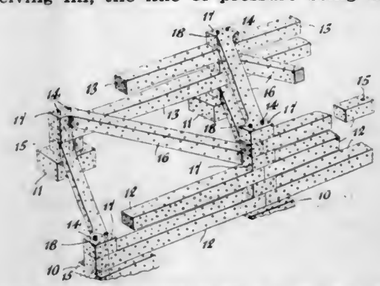
2,159,555
COIN HOLDER
Nell L. Fulton, New York, N. Y.
Application June 5, 1937, Serial No. 146,689
4 Claims. (Cl. 133—6)



2. A coin holder comprising a back plate, a cover plate member hingedly mounted on the back plate, a coin pocket mounted on the back plate and adapted to be housed by the cover plate when closed, said coin pocket opening upwardly and provided with a finger receiving recess within its outer wall for reception of a finger to extract the outermost coin, and a combined follower and cover-opening spring carried by the pintle of the hinge of the cover extending upwardly through the coin pocket and having its upper end curved outwardly for engaging the innermost coin and advancing the coins outwardly in the pocket as the coins are extracted one at a time from the pocket, said spring having the lower end thereof bearing against said cover to normally bias said cover to open position, said spring projecting above the coins disposed in said pocket for receiving the extracted coin thereover and admitting the easy grasping of the coin between the fingers.

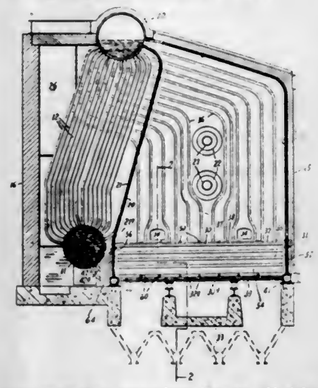
2,159,556
CRIBBING CONSTRUCTION
George C. Habicht, Snyder, N. Y.
Application July 6, 1937, Serial No. 152,049
3 Claims. (Cl. 61—47)

1. A cribbing construction, comprising a front retaining wall composed of stretcher members, and diagonally-disposed header members arranged rearwardly of and in intersecting connected relation with said stretcher members to provide equilateral, triangular-shaped bays for receiving fill, the line of pressure being normal



to the header-forming sides of the bays and in both longitudinal and lateral directions relative to the cribbing.

2,159,557
STEAM BOILER
Lewis W. Heller, East Orange, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application March 5, 1937, Serial No. 129,113
13 Claims. (Cl. 122—336)

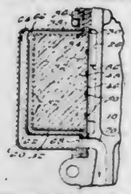


1. A furnace for burning finely divided fuel in suspension comprising a horizontally extending furnace chamber of substantial length, means for introducing a stream of finely divided fuel into the front end of said furnace chamber, a gas exit at the rear end of said furnace chamber, a stepped ash receiving floor for said furnace chamber comprising a front upper section and a rear lower section, each floor section comprising a row of spaced water tubes and means closing the intertube spaces of said floor tubes and defining a substantially flat horizontally arranged floor surface, and means for discharging jets of cleaning fluid rearwardly across the surface of each section.

2,159,558
OIL COOLER AND FILTER
Floyd F. Kishline, Birmingham, and George L. Reynolds, Detroit, Mich.
Application May 26, 1937, Serial No. 144,894
3 Claims. (Cl. 210—131)

1. An article of manufacture comprising a pressed metal pan-like member having an outwardly directed marginal flange at the open side thereof, the bottom wall and one of the side walls of said member having intercommunicating

grooves formed therein, and plate means sealed to said bottom and side in bridging relation with



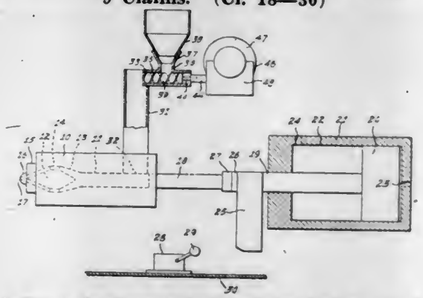
respect to said groove whereby to form, with the walls of said groove, a duct.

2,159,559

FEEDING MECHANISM FOR PLASTIC EXTRUSION MOLDING MACHINES

Ira B. Lawyer, Mount Gilead, Ohio, assignor to The Hydraulic Press Corp. Inc., Wilmington, Del., a corporation of Delaware

Application April 26, 1937, Serial No. 138,944
9 Claims. (Cl. 18—30)



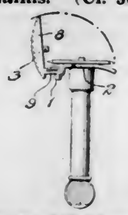
1. In a feeding and injecting device, an injector chamber, an injection member therein, a substantially vertical passageway opening into said injector chamber, a feeding chamber connected to said passageway, a movable feeding member in said feeding chamber, a motor operatively connected to said feeding member for moving said feeding member, said motor including a motor energizing circuit, means for energizing said circuit, and a timing device responsive to the expiration of a predetermined period of time after the energization of said motor circut for deenergizing said motor circuit.

2,159,560

SAFETY RAZOR

James Long, Dunedin, Otago, New Zealand

Application April 13, 1936, Serial No. 74,209
3 Claims. (Cl. 30—58)



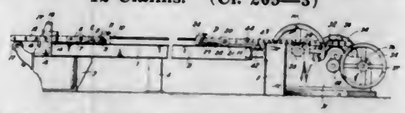
1. In safety razors of the type described, a body member, a cap member, means to pivotally attach the cap member to the body member so as to prevent rotative movement of the cap member in relation to the body member before it is lifted clear of possible contact with the blade, the said means comprising lugs dependent from the body member and having a hinge pin and a flat raised vertical guide face formed on the said lugs with a curved recess adjacent to and partly radial to the hinge pin and arms projecting from the cap member and engaging with the hinge pin and operating in association with the aforementioned guide face and curved recess.

2,159,561

METHOD OF AND APPARATUS FOR REMOVING SCALE FROM AND SIZING RODS AND THE LIKE

John S. Lynch, Massillon, Ohio, assignor, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application January 16, 1935, Serial No. 2,021
12 Claims. (Cl. 205—3)



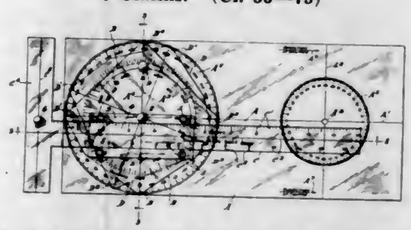
1. A continuous process of de-scaling and drawing metallic rod and the like having a closely adhering scale which includes the steps of pulling the rod continuously through a die while applying a resisting force to the rod in front of the die, said force being applied at a point sufficiently far ahead of the die and being sufficiently great to stretch the rod between the die and point of applying the resisting force whereby the scale will be broken and freed from the rod.

2,159,562

NAVIGATIONAL AND DRAFTING INSTRUMENT

Leroy M. McCluskey, Portland, Maine

Application July 28, 1937, Serial No. 156,221
Renewed April 11, 1939
6 Claims. (Cl. 33—75)



1. In an instrument of the character described, a base having a straight edge portion and bearing a compass rose; a member having a straight edge portion and having a hub rotatably mounted on the base coaxially of said rose, said hub portion having radial markings cooperating with the rose and disposed 90° apart; a second member mounted on the hub and having radial markings cooperating with the rose and disposed 90° apart, and means for adjusting the second member on the hub.

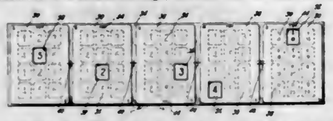
2,159,563

CARD GAME

Edward Thomas McNaney, Catonsville, Md.

Application May 28, 1937, Serial No. 145,345
8 Claims. (Cl. 35—31)

1. A game comprising a base card bearing a plurality of groups of related indicia and a plurality of cards containing dissimilarly positioned perforations for exposing certain of said indicia in corelated relationship, each of said perforated



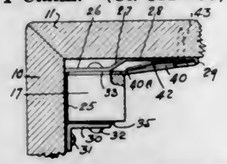
cards substantially conforming in size and shape to each of said groups.

2,159,564

LEG HINGE, AS FOR TABLES

Harry L. McPherson, Memphis, Tenn.

Application January 13, 1937, Serial No. 120,347
1 Claim. (Cl. 311—99)



A hinge and lock, for a table leg having an upper end of rectangular cross section, with a pin aperture therethrough; the table having a top, and rails intersecting at right angles, extending downwardly therefrom; said hinge comprising a unitary member of flat strap material bent to form an L adapted to lie along two intersecting sides of said leg, both arms of said L being of substantially greater length than the width of the contiguous sides of said leg to provide extending portions; a first of said arms being provided with a hinge pin receiving aperture and being outwardly offset, within the limit of its contiguous leg side, to a parallel plane, said offset arm terminating in an inwardly extending flange, the extending portions of both said arms being apertured to receive attaching screws; one said aperture in said offset arm being adjacent said flange said lock including a flat plate of less than leg width disposed between said leg and said off-set arm and secured to said leg, said plate being apertured for said hinge pin and extending laterally to overlie said offset but not to the adjacent corner of said leg; a detached leaf spring and a detached dog of greater length than said spring but less length than said offset portion, said dog being adapted to overlie said spring and at one end to abut said flange and at the opposite end to abut said off-set-overlying edge of said plate and contact the extending leg side, both said spring and said dog being apertured to conform to the aperture in said arm adjacent said flange, said dog aperture being countersunk to loosely receive and be retained by a screw adapted to solidly secure said spring and said off-set arm against a said rail; an angle member adapted to seat on the second said arm of said L, the arms of said angle member being respectively apertured to conform to the apertures in said second L-arm and to said pin aperture; and a pin adapted to pass through the pin apertures of said leg, said L, and said angle member, and being securable in the latter two of said apertures.

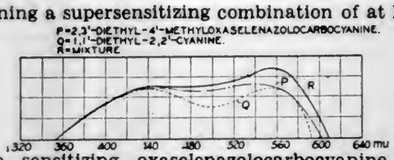
2,159,565

PHOTOGRAPHIC EMULSION

Charles E. K. Mees, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 16, 1937, Serial No. 120,967
15 Claims. (Cl. 95—7)

1. A photographic silver halide emulsion containing a supersensitizing combination of at least



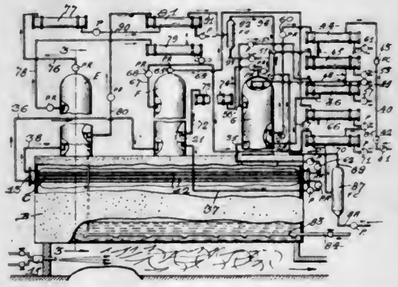
one sensitizing oxaselenazolocarbocyanine dye with at least one sensitizing pseudocyanine dye.

2,159,566

APPARATUS FOR DISTILLING LIQUIDS

Albert R. Nevitt, Montreal, Quebec, Canada

Application September 24, 1936, Serial No. 102,376
3 Claims. (Cl. 196—106)



3. In distilling apparatus of the character described, a retort, a plurality of fractionating towers mounted on the retort and having communication with the retort, a plurality of trays mounted in the said fractionating towers, a plurality of heating coils mounted adjacent the retort, means for heating the retort and coils, a conduit connecting the tray of one of the towers with the inlet of one heating coil, a conduit connecting the outlet end of the said coil with the tray of a second tower, a conduit connecting the last mentioned tray with the inlet end of a second coil, a conduit connecting the outlet end of the said second coil with the tray of a third tower, means for feeding charging stock onto a tray of the first mentioned tower, and means for removing fractional distillates from the said towers.

2,159,567

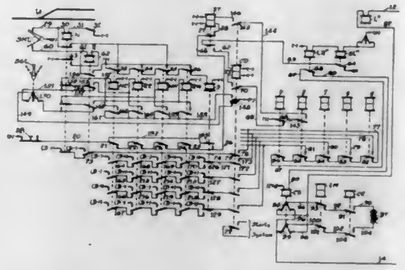
CENTRALIZED TRAFFIC CONTROL SYSTEM

Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application November 5, 1931, Serial No. 573,079
40 Claims. (Cl. 246—3)

1. In a centralized traffic control system for railroads, a track switch, a plurality of signals governing traffic over said track switch, a route storing relay for each of said signals, a stop route relay, a control office, a code transmitting means manually governable in said control office for transmitting anyone of a plurality of series of code impulses, a code receiving means at said track switch said means including a plurality of code receiving relays each being individually controlled in accordance with a particular impulse in a series of code impulses received from the control office, means selectively energizing a particular one of said route storing relays or said stop route relay in accordance with the composite response of said code receiving relays to a particular series of code impulses, and means preventing

the selective energization of any other route storing relay in response to said code receiving relays after the energization of said particular route



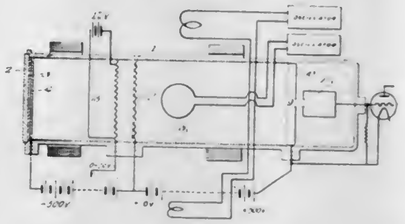
storing relay until either said stop route relay is selectively energized or a train passes over said track switch.

2,159,568

PICTURE-TRANSLATING TUBE

Martin Ploke, Dresden, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany

Application May 3, 1937, Serial No. 140,355
In Germany May 6, 1936
3 Claims. (Cl. 250—166)



1. A picture translating tube comprising within an envelope, a photocathode at one end of said envelope, a grid electrode provided with a multiplicity of individual minute photoelectric cathodes positioned in a single plane at a distance from said photo-cathode and adapted to be charged by the primary electrons emitted from said photo-cathode when a light picture is produced upon the same, an incandescible high emission cathode mounted between said photocathode and said grid electrode, said incandescible cathode together with said grid electrode being adapted to produce an electron picture of increased light intensity, and an electrode at the other end of said envelope on which said last mentioned electron picture is projected.

2,159,569

$\Delta^{4,5}$-UNSATURATED ANDROSTENE COMPOUND AND PROCESS OF MAKING SAME

Leopold Ruzicka, Zurich, Switzerland, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application September 8, 1936, Serial No. 99,860. In Switzerland November 4, 1935

6 Claims. (Cl. 260—397)

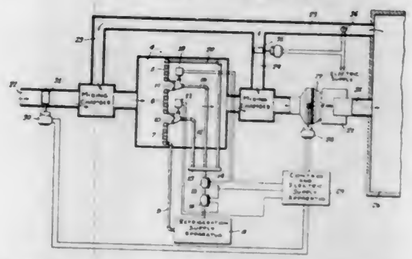
1. The $\Delta^{4,5}$-unsaturated 3-hydroxy androstene-compounds.

2,159,570

AIR CONDITIONING SYSTEM UTILIZING REFRIGERATION

Henry R. Sewell, Jamaica Plain, and Robert T. Palmer, Sharon, Mass., assignors, by mesne assignments, to B. F. Sturtevant Company, Hyde Park, Boston, Mass., a corporation of Massachusetts

Application December 4, 1936, Serial No. 114,216
8 Claims. (Cl. 62—6)



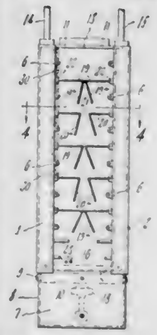
7. Air conditioning apparatus comprising an air cooler, a fan for moving air through said cooler and for supplying the air into a room, means for varying the volume of air moved by said fan, means for supplying fresh air into said cooler, means for supplying a refrigerant to said cooler, and means for adjusting said volume control means for varying the volume of air moved by said fan and for adjusting said second mentioned means for inversely varying the volume of fresh air supplied to said cooler in response to changes in the temperature of said refrigerant caused by absorption of heat from the air moved through said cooler.

2,159,571

WATER HEATER

Elmer S. Stack, Arlington, Mass.

Application August 13, 1935. Serial No. 35,974
10 Claims. (Cl. 122—367)



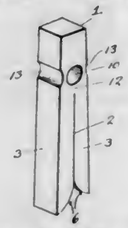
9. A water heater comprising a hollow body adapted to contain water and having a rising side wall, fins projecting horizontally from said wall and extending horizontally in the width direction of the body, said fins being of shorter length than the width dimension of the body and located at different levels in a staggered arrangement with one end of each fin at a higher level overlapping the nearer end of the fin at the next lower level; certain fins having a depending portion extending from the extremity most remote from said body wall on an inclination toward said wall.

2,159,572

LINGERIE PIN

Paul F. Starr, New Bethlehem, Pa.

Application May 13, 1938, Serial No. 207,807
2 Claims. (Cl. 24—255)



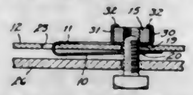
1. A pin of the class described comprising an elongated body of rubber having two of its opposing side faces flat and having a hole passing therethrough, adjacent one end thereof, and from one of said faces through the other face, said body having a centrally arranged slit therein extending from the other end to a point slightly spaced from the hole, said slit dividing that part of the body through which it passes into a pair of legs, the inner parts of the free ends of which are rounded, and said body having transversely extending rounded recesses in its two remaining sides, arranged in alignment with and paralleling the hole.

2,159,573

FASTENING DEVICE

George A. Tinnerman, Rocky River, Ohio, assignor to Albert H. Tinnerman, Cleveland, Ohio

Application July 31, 1936, Serial No. 93,679
6 Claims. (Cl. 85—32)



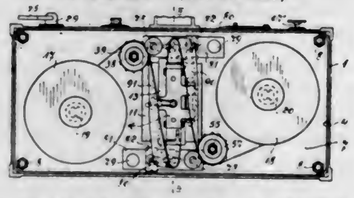
6. A nut holder comprising a U-shaped metallic clip having a bolt receiving opening therein and having a pair of ears formed integrally therewith and disposed on opposite sides of the opening, said ears extending substantially parallel to each other and being adapted to engage the opposite sides of a nut for centering it with reference to the opening and for holding it in bolt receiving position.

2,159,574

SMALL-FILM CINE CAMERA

Carl August Tschörtner, Cologne-on-the-Rhine, Germany

Application September 23, 1937, Serial No. 165,396
In Germany September 26, 1936
2 Claims. (Cl. 88—17)



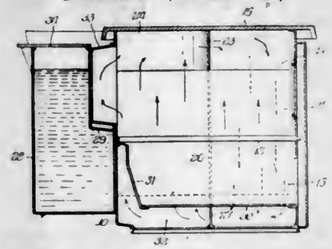
1. A miniature motion picture camera, comprising a flat rectangular casing having broad front and rear walls and narrow top, bottom and end walls, a lens holding sleeve extending through said front and rear walls at right angles thereto and centrally thereof, a lens carried by the forward portion of said sleeve, a rear portion of said sleeve being slotted, film guides carried by the extended rear end of said sleeve, film holding spools mounted outwardly of said rear wall of said casing on either side of said guides, a light tight cover mounted on the outside of said rear wall and enclosing said spools and guides, means in said casing for imparting a step by step movement of said film through said guides, a shutter in said casing and working in said slotted portion of said sleeve, and spring means in said casing and operatively connected to both said shutter and film moving means for actuating the same.

2,159,575

COOKING RANGE

John A. Underwood, Evanston, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois

Application December 20, 1937, Serial No. 180,732
5 Claims. (Cl. 126—34)



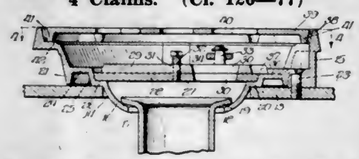
2. In a cooking range, the combination with the body thereof, its fire pot and its ash pit, of a water reservoir arranged at the rear of the body, the fire pot having an extension chamber, the reservoir having an offset portion receiving said extension chamber to permit the reservoir to contact the extension chamber and be heated at its upper portion by the heat of the fire pot, the body of the range having a pocket within the ash pit with which the reservoir also is in contact, said pocket being in communication with the flues of the range to receive the products of combustion as they pass through the range whereby to heat said pocket.

2,159,576

HOT BLAST COOKING ATTACHMENT FOR HEATING STOVES

John A. Underwood, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois

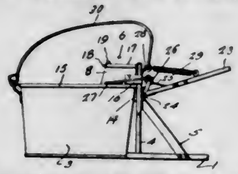
Application June 27, 1936, Serial No. 87,672
4 Claims. (Cl. 126—77)



4. An attachment of the class described, comprising a chambered body member adapted for association with the heating drum of a stove, a dished supporting member carried by the chambered body member and depending from the lower side of the latter, said supporting member having an opening in its bottom, an external shoulder surrounding the supporting member and seating upon the heating drum to sustain the body member on said drum, a hot-blast tube arranged in the opening of the supporting member and having a flared end seated upon the interior of the supporting member, the chambered

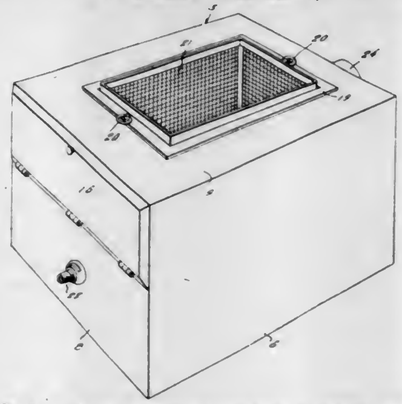
member having an internal annular seat above said supporting member, an air-controlling damper within the chambered body member and displaceably mounted on said internal annular seat above the hot-blast tube, said air-damper controlling communication between said body member and the hot-blast tube, means at the exterior of the body member and connected to said air-controlling damper for actuating the latter, an internal annular shoulder arranged at the top of the chambered body member, and a displaceable perforated lid seated upon the last mentioned shoulder and affording flow of air therethrough to the chambered body member and the hot-blast tube controlled by the action of said air-damper.

2,159,577
MOP WRINGER
Jake Lobe Walters, Randlett, Okla.
Application May 22, 1937, Serial No. 144,244
2 Claims. (Cl. 15—261)



1. A mop wringer comprising a base, an upright mounted on said base, a press box mounted on the upper portion of said upright and spaced therefrom for the reception of a container therebetween, said container having a rim, a cleat mounted on the upright and engageable under the rim of the container for supporting said container on the upright, a foot operated bell crank lever pivotally mounted on the upright, a pressure plate slidably mounted in the press box, and a substantially U-shaped connecting rod having its bight portion pivotally connected to the pressure plate and having its ends pivotally connected to one end of the bell crank lever.

2,159,578
COMBINATION DEEP FAT FRYING KETTLE
Frank X. Weinman, Olean, N. Y., assignor of one-half to Bruno A. Haberbush, Olean, N. Y.
Application February 11, 1938, Serial No. 190,061
4 Claims. (Cl. 53—7)



2. A cooking device comprising a casing, a substantially U-shaped toasting basket mounted horizontally in said casing, and a cooking vessel mounted in the casing between the legs of said basket.

2,159,579
GOLF CLUB OR THE LIKE
William E. Whitney, Cambridge, Mass.
Application August 27, 1938, Serial No. 227,019
6 Claims. (Cl. 273—77)



1. A club of the class described having a shaft which is jointed near the lower end of the handle to permit the lower end of the shaft to swing upwardly approximately in a plane which contains the axis of the handle and which extends approximately lengthwise of the face of the club, a stop to prevent the lower end of the shaft from swinging downwardly substantially beyond normal position while permitting said upward swinging, and means for yieldingly holding the lower end of the shaft against said stop.

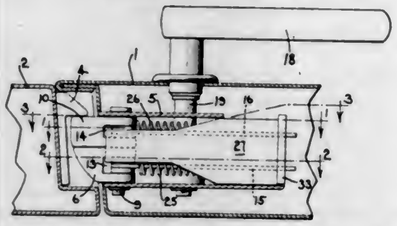
2,159,580
EXPANSION BOLT
Morton F. Zifferer, Great Neck, N. Y., assignor, by mesne assignments, to U. S. Expansion Bolt Co., York, Pa., a corporation of Pennsylvania
Application August 30, 1937, Serial No. 161,600
3 Claims. (Cl. 85—2.4)



1. In an expansion bolt the combination of a one-piece shield having a plurality of slots extending longitudinally from its inner end for a major portion of its length to provide a like number of sections each outwardly yieldable to engage with the walls of a surrounding aperture, the shield being formed with an axial passageway which is transversely arcuate throughout its several sections each of which is outwardly tapered in the region of its inner end, a nut having a plurality of sides corresponding in number and generally in taper to the sections of the shield, a rib extending longitudinally along each corner of the nut adapted to slide within one of the longitudinal slots of the shield, there being a pair of grooves adjacent the base of each rib and a recess extending transversely of one side of the nut and beveled inwardly toward its outer end to provide in effect a ratchet shoulder between two ribs thereof, and a hook extending inwardly from the inner end of the shield adapted to engage the nut either at the inner end or the shoulder thereof whereby to retain the nut in assembled relation within the

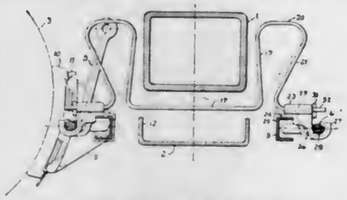
shield in either of two positions, the nut being free to advance from its outer to an inner position but not vice versa.

2,159,581
LOCKING DOOR LATCH
Carl E. Anderson, Grand Haven, Mich., assignor to Anderson-Bolling Mfg. Co., Grand Haven, Mich., a partnership composed of Carl E. Anderson and Baltzar Bolling
Application May 23, 1938, Serial No. 209,499
7 Claims. (Cl. 292—44)



1. In a latch structure, a support, two bolts mounted for movement on said support each having means adapted to engage with a common keeper, individual spring means acting on each of said bolts normally moving them to an outer keeper engaging position, a plate mounted to pivot about one end thereof and means thereon to prevent the retraction of one of said bolts until the other of said bolts has been retracted a predetermined distance.

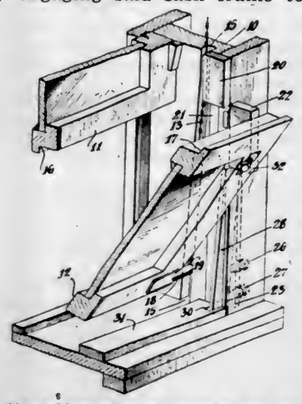
2,159,582
BRAKE BEAM SAFETY SUPPORT
Harley E. Anderson, Chicago, Ill., assignor to John H. Sharp, Chicago, Ill.
Application June 20, 1936, Serial No. 86,260
12 Claims. (Cl. 188—210)



1. An auxiliary support for brake beams consisting of a one-piece bar of resilient material provided with a loop adjacent each end, and means for connecting the ends of said bar to respective brake beams, said bar carried normally solely by the brake beams and freely shiftable longitudinally therewith.

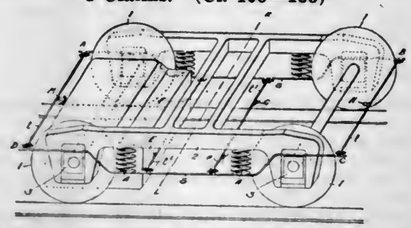
2,159,583
WINDOW CONSTRUCTION
Rudolf Benzenberg, New York, N. Y.
Application August 26, 1937, Serial No. 160,955
2 Claims. (Cl. 20—42)

1. A window construction comprising a tiltable sash pivoted near its lower end to the window casing, said casing having a chamber, a strip pivoted at its upper end to one wall of said casing and springs in bores of said casing walls engaging with their outer ends the lower end of said strip to press the same against the sash frame in order to exert a braking action by frictionally engaging said sash frame to hold the



sash in its adjusted positions when tilted a certain amount relative to the window casing.

2,159,584
FIXING ELECTRIC MOTORS TO A VEHICLE TRUCK
Marie Edouard Jean Henri Bikar, Brussels, Belgium, assignor to "Aciéries de Haine Saint-Pierre et Lesquin", Société Anonyme, Haine Saint-Pierre, Belgium, a company
Application October 21, 1936, Serial No. 106,811
In Belgium October 25, 1935
3 Claims. (Cl. 105—133)

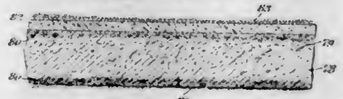


1. In a vehicle truck having axle boxes, a motor-supporting frame comprising longitudinally extending members resting directly on said axle boxes and extending beyond the same, transverse members articulated to the ends of said longitudinal members, intermediate transverse members articulated at their ends to said longitudinal members, said transverse members having means for supporting a motor between them, and a vehicle truck frame spring supported on said longitudinal members.

2,159,585
COMPOUNDS OF COPPER, ARSENIC, AND A SULPHMONOCARBOXYLIC ACID AND PROCESS OF MAKING THEM
Frederick E. Dearborn, Washington, D. C.; dedicated to the free use of the People of the United States of America
No Drawing. Application January 28, 1938, Serial No. 187,574
7 Claims. (Cl. 260—399)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

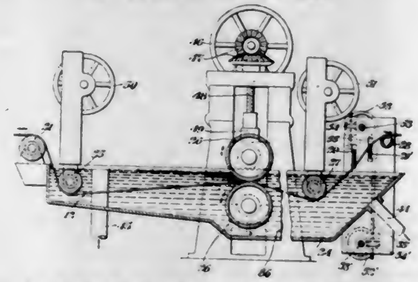
1. A new compound of the general formula $3CuAs_2O_4.CuOR$ in which R is the anhydride of a sulph-monocarboxylic acid of the general formula $C_nH_{2n-2}SO_2$.

2,159,586
BITUMINIZED WEB
Harold W. Greider, Wyoming, and George Arthur Fasold, Cincinnati, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Original application July 20, 1933, Serial No. 681,286. Divided and this application May 26, 1937, Serial No. 144,964
4 Claims. (Cl. 91—68)



1. As a roofing material, a compressible fibrous substantially completely filled and sealed web material impregnated with a bituminous saturant and squeezed by pressure, mechanically applied to the surfaces on the opposite sides thereof, to a substantially devoided condition and sealed on the opposite sides thereof in said substantially devoided condition with a sealing layer of bituminous sealing material applied to said surfaces of said mechanically squeezed web which bituminous sealing material has a higher softening point than the softening point of said saturant and which bituminous sealing material is integrally bonded with said saturant and with the fibers of said web adjacent to and at said surfaces of said squeezed web and fills the surface interstices of said web to substantial depth with avoidance of substantial porosity, the remainder of said web material being so completely filled with said saturant as to be substantially free of voids, thereby affording a bituminized web which is substantially completely filled and sealed so as to be highly resistant to blistering.

2,159,587
APPARATUS FOR MAKING BITUMINIZED WEBS
Harold W. Greider, Wyoming, and George Arthur Fasold, Mount Healthy, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Original application July 20, 1933, Serial No. 681,286. Divided and this application May 26, 1937, Serial No. 144,965
11 Claims. (Cl. 91—24)

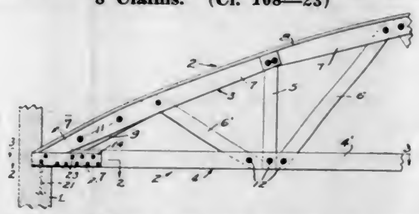


1. In apparatus for impregnating and coating a web with bituminous material, the combination comprising impregnating means for impregnating a web with a bituminous saturant, squeezing means including members adapted for pressure contact with opposite surfaces of said web to devoid said web by sequeezing said web, and means separate from said impregnating means to supply bituminous coating material having a higher softening point than the softening point of said saturant to said opposite surfaces of said web simultaneously with the removal of said surfaces from contact with said members.

2,159,588
PROCESS FOR THE PHOTOMECHANICAL MANUFACTURE OF PRINTING FORMS FOR INTAGLIO PRINTING
Josef Görig, Lcevenich, near Cologne, Germany, assignor to firm Bekk & Kaulen Chemische Fabrik G. m. b. H., Loevenich, near Cologne, Germany
No Drawing. Application March 4, 1936, Serial No. 67,068. In Germany April 2, 1935
10 Claims. (Cl. 95—5.7)

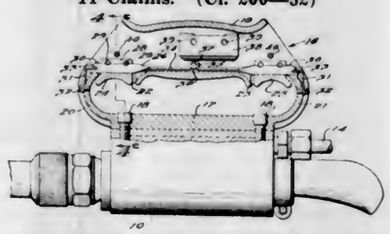
1. A process for the photomechanical manufacture of printing forms for intaglio printing by means of a doctor which comprises covering a metallic body used as the basis for the printing form with a light sensitive chromatized colloid layer, exposing the same twice, under a diapositive of a continuous unscreened half-tone image and under a photogravure screen in any succession, the one after the other, and then treating said metallic body covered with the undeveloped, twice exposed colloid layer with a swelling means and an etching means.

2,159,589
ROOFING-TRUSS STRUCTURE
John S. Edison, Los Angeles, Calif., assignor to Wm. P. Nell Company, Ltd., Los Angeles, Calif., a corporation of California
Application February 23, 1937, Serial No. 127,061
8 Claims. (Cl. 108—23)



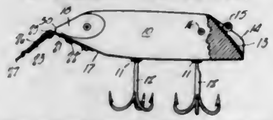
1. In a roofing-truss construction; the combination of top and bottom chords; and a U-shaped shoe embracing and connecting the ends of said chords together, said shoe having a dividing wall extending from the closed end of said U-shaped shoe and providing two receiving compartments therein for said chords.

2,159,590
TRIGGER CONSTRUCTION
Louis C. Huck, Grosse Pointe Village, Mich., assignor to Huxon Holding Corporation, a corporation of Michigan
Original application March 6, 1936, Serial No. 67,458, now Patent No. 2,132,112, dated October 4, 1938. Divided and this application September 17, 1936, Serial No. 101,203
11 Claims. (Cl. 200—52)



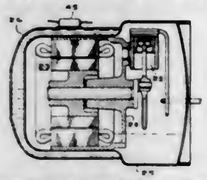
1. A handle for a power operated portable tool including a hollow hand engaging portion having a pair of symmetrically disposed lateral openings communicating with the interior thereof at opposite ends of said portion respectively, a control instrumentality positioned within said hand engaging portion, a pair of trigger members positioned in said lateral openings, and resilient means connecting said triggers with said control instrumentality whereby operation of either of said triggers will operate said instrumentality.

2,159,591
FISHING LURE
Victor William Leusch and Heyward P. Gibson, South Bend, Ind., assignors to South Bend Bait Company, South Bend, Ind., a corporation of Indiana
Application July 11, 1936, Serial No. 90,080
9 Claims. (Cl. 43—46)



1. A fishing lure comprising a plug-type body, one end of said body having a longitudinally inclined groove of arcuate section formed therein to provide lips at opposite sides thereof, the other end of said body having a tapered shape defined by an upwardly inclined lower face and a pair of relatively angular downwardly inclined upper faces, a plate secured to said lower face and bent angularly downwardly to provide a deflecting portion projecting longitudinally of said body, and line attaching means at each end of said body.

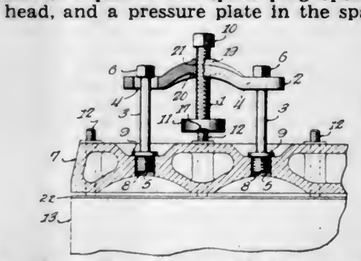
2,159,592
REFRIGERATOR UNIT
Milton Kalischer, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 6, 1935, Serial No. 39,405
6 Claims. (Cl. 62—116)



6. In refrigeration apparatus, the combination of a refrigerant compressor, a motor for driving the compressor, a casing for hermetically sealing the motor and compressor, a fluid containing jacket carried by at least a portion of said casing, means for passing a heat exchanging fluid through said jacket, and a thermostatically operated device secured to the outside of said jacket and responsive to the temperature thereof for controlling the energization of the motor.

2,159,593
CYLINDER HEAD PULLER
Henry G. Klermund, Oberlin, Ohio, assignor of one-fourth to Albert E. Norling and one-fourth to William S. Dawson, both of Oberlin, Ohio, and one-fourth to Daniel D. Grissinger, Wellington, Ohio
Application April 18, 1938, Serial No. 202,622
1 Claim. (Cl. 29—84)

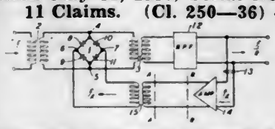
A device for removing a cylinder head or the like from an engine block comprising, a cross-member, a power applying screw extending through and having screw threaded connection with said cross-member, bolt-like elements carried by the cross-member on opposite sides of the screw, said bolts having headed upper ends for connection with the cross-member and threaded lower ends for connecting the cross-member to a pair of the spark plug openings in the head, and a pressure plate in the space between the bolts, said plate having a swiveled connection with the lower end of the screw so that the plate in the use of the device may be extended in crossing relation to the cross-member to span and engage the head securing studs of the block between and on opposite sides of said spark plug openings, said cross-member having openings through which the bolts extend, said openings being fashioned to revolubly and adjustably mount the bolts in the cross-member.



2,159,594
ESTERS OF CYCLIC ALCOHOL
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 1, 1935, Serial No. 47,811
9 Claims. (Cl. 260—475)

1. A neutral dicarboxylic acid ester in which one carboxyl group of the dicarboxylic acid has been esterified by an alcohol resulting from the hydrogenation of a condensation product of a phenol with a material selected from the group consisting of benzyl chloride and benzal chloride and the other carboxyl group of the dicarboxylic acid has been esterified by a hydroxy compound selected from the group consisting of monohydric alcohols, polyhydric alcohol ethers having one free hydroxyl group, esters of hydroxy carboxylic acids and alcohols resulting from the hydrogenation of condensation products of monohydric phenols with a material selected from the group consisting of benzyl chloride and benzal chloride.

2,159,595
FREQUENCY CONVERSION CIRCUITS
Ralph L. Miller, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 31, 1937, Serial No. 156,698
11 Claims. (Cl. 250—36)



1. A frequency converting circuit for producing accurate fractions of a given base frequency comprising a modulator consisting of a plurality of solid non-linear modulating elements con-

nected in a balanced arrangement, means for impressing a wave of said given base frequency on the input of said modulator, a feedback circuit including an amplifier and one or more selective networks, connecting the output of said modulator to said input, in conjugate relation with the input of said amplifier, said amplifier comprising an electron space discharge device having a gain which is greater than the loss of said modulator and said networks, said selective networks being so tuned that the amplified waves fed back into the input of said modulator are of such frequency that when combined therein with the impressed wave of base frequency, sustained waves of combination frequencies including the desired frequency are produced, and means for selecting a wave of said desired frequency from the output of said amplifier.

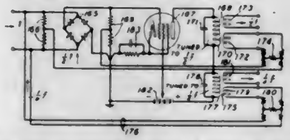
2,159,596

FREQUENCY CONVERSION CIRCUITS

Ralph L. Miller, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original application July 31, 1937, Serial No. 156,698. Divided and this application April 30, 1938, Serial No. 205,224

4 Claims. (Cl. 250—36)



1. A frequency conversion circuit comprising a plurality of stages of regenerative modulation each consisting of a balanced modulator having two inputs conjugately connected, and a regenerative circuit including an amplifier for feeding back to one of the conjugate inputs of said modulator a wave derived from the output thereof to modulate in the modulator with waves supplied to the other input thereof, the same amplifier being employed in all of said stages, means for impressing a wave of a given frequency on the other input of the modulator in the first stage, a plurality of selective networks in series in the output of said amplifier each tuned to a different frequency bearing a definite relation to said given frequency, the regenerative circuit in each stage including a different one of said networks, the other input of the modulator in each stage after the first being taken from the selective network in the preceding stage, and a utilization circuit for picking off a converted frequency, connected to the output of one or more stages.

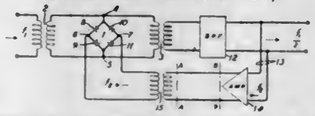
2,159,597

FREQUENCY CONVERSION CIRCUITS

Ralph L. Miller, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original application July 31, 1937, Serial No. 156,698. Divided and this application April 30, 1938, Serial No. 205,225

6 Claims. (Cl. 250—36)



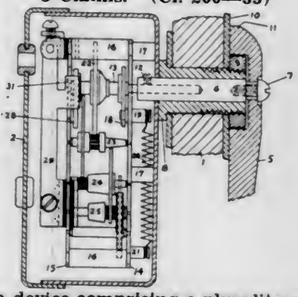
1. A frequency converter comprising a balanced third order modulator having two conjugately connected inputs, means for impressing on one of said inputs a wave of a given frequency to be converted to a wave of another frequency which is a desired fraction of said given frequency, a circuit including a tuned amplifier coupling the output of said modulator to the other input thereof, designed to selectively feed back to said other input waves derived from the output of said modulator of such frequency and amplitude that when combined with waves of said given frequency in said modulator, a sustained component of said other frequency will appear in the output of said modulator, and means to select a wave of said other frequency from the output of said modulator.

2,159,598

VEHICLE SIGNALING SYSTEM

William J. Morris, La Salle, Ill., assignor, by mesne assignments, to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware

Application January 27, 1936, Serial No. 61,012
Renewed June 29, 1938
3 Claims. (Cl. 200—35)



1. In a device comprising a plurality of switching means, means for selectively operating one or the other of said switching means comprising a frame, a shaft journaled in said frame, a manually operated selective indicating means fastened on said shaft, an auxiliary fastening means on said shaft, a single resilient positioning means attached to said fastening means retaining said indicating means in its centrally disposed position, said single resilient positioning means constituting a means to rotate said shaft to a centrally disposed position whenever said indicating means moves said shaft from its said centrally disposed position, a rotatably mounted mechanical retarding means frictionally connected with said shaft, and an integral double acting cam rigidly mounted on said shaft adjacent to said switching means whereby movement of said indicating lever in one direction from said centrally disposed position will close one of said switching means and movement in the other direction therefrom will close the other switching means.

2,159,599

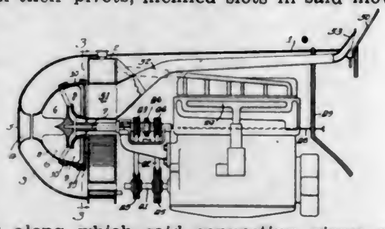
AUTOMOBILE RADIATOR COOLING APPARATUS

Willard L. Morrison, Lake Forest, Ill.

Application February 23, 1934, Serial No. 712,464

10 Claims. (Cl. 123—174)

6. An automobile radiator cooling apparatus comprising a radiator having air passageways therethrough, a centrifugal blower in front of said radiator having revolving vanes, a series of collector vanes forming a part of said centrifugal blower and located between the revolving vanes and the radiator, pivots by which said collector vanes are pivotally mounted, a movable ring extending around the exterior of said collector vanes, connecting pieces connected with said ring and with said vanes at a point at a distance from their pivots, inclined slots in said movable



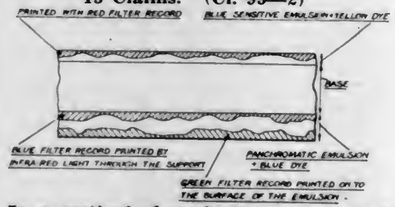
ring along which said connecting pieces move when the ring is moved to move said collector vanes to their closed positions.

2,159,600

PRODUCTION OF COMPOSITE PHOTOGRAPHIC IMAGES

Humphrey Desmond Murray and Douglas Arthur Spencer, London, England, assignors to The Veracol Film Syndicate Limited, London, England, a British company

Application February 2, 1937, Serial No. 123,668
In Great Britain February 6, 1936
15 Claims. (Cl. 95—2)



1. In a method of producing a photograph in colors, the step which comprises developing a photographic element containing at least one silver halide photographic emulsion having a developed outer surface image and an undeveloped inner image remote from said surface, said images being in superposed relationship and on the same side of a support, by treatment from the same side as the developed surface image, with a depth color developer containing a substance selected from the group consisting of soluble thiosulphates, soluble cyanides and soluble iodides in such concentration that said depth color developer develops the inner image without further developing action on the outer developed image.

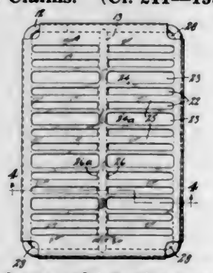
2,159,601

REFRIGERATOR SHELF

Carl H. Nauert, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application December 12, 1936, Serial No. 115,456

5 Claims. (Cl. 211—153)



1. A shelf for a refrigerator comprising a rod framework having side rods and a center rod, a sheet metal covering for said framework of resilient material stamped to provide openings for circulation of air therethrough and downturned edges and central projections for resiliently engaging the side rods and center rod respectively of said framework.

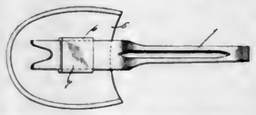
2,159,602

SHANK STIFFENER

Justin P. Quirk, St. Louis County, Mo., assignor to United Wood Heel Company, St. Louis, Mo., a corporation of Delaware

Application March 20, 1937, Serial No. 131,983

2 Claims. (Cl. 36—76)



1. In a shoe the combination comprising a heel, a fastening device on the heel seat having a plate and engaging members integral with the plate and extending downwardly from the edges of the plate to engage in the heel and support the plate above the heel seat with a slot therebetween, and a shank stiffener having its rear end extending through said slot and rearwardly beyond the rear edge of the plate, whereby said fastening device is adapted to receive and pass the end of the stiffener while preventing relative vertical movement between the heel and the stiffener.

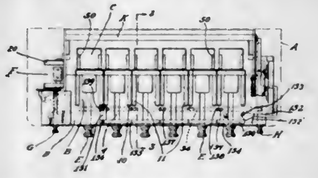
2,159,603

COIN VENDING MACHINE

William H. Rowe, Detroit, Mich., and Christian Gabrielson, Belleville, N. J., assignors to Rowe Manufacturing Co., Inc., New York, N. Y., a corporation of New York

Application June 15, 1935, Serial No. 26,734

11 Claims. (Cl. 194—93)



1. A coin operated vending machine comprising manually operable delivery means, interfering means for normally preventing operation of said delivery means beyond a slight initial movement thereof, said interfering means comprising two independently movable detents, each said detent having a dime-engaging portion and rotatably carrying a swivel having at each end a nickel engaging projection, locking means yieldably operable by said delivery means upon a slight initial movement thereof to engage said detents with said delivery means to lock said delivery means against operative movement, and means for supporting and engaging coins with said portions and projections to render said locking means inoperative to engage said detents with said delivery means, comprising means for supporting and engaging a first dime with the dime-engaging portion of one of said detents and a second dime with that of the other and a first pair of nickels with the projections of the latter said detent and a second pair of nickels with those of the former.

2,159,604
METALLIC ARTICLE
Leo Schlecht, Ludwigshafen-on-the-Rhine, and Walter Schubardt, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application October 25, 1934, Serial No. 749,922. In Germany March 26, 1928
2 Claims. (Cl. 75—22)

1. The process of producing nickel articles containing not more than 0.03% of carbon which comprises heating to a sintering temperature a nickel powder obtained directly by the thermal decomposition of nickel carbonyl, said nickel powder being free from manganese, magnesium, copper, silicon and phosphorus, containing not more than 0.002 per cent of sulphur and having an average size of the particles not exceeding 10 mu, said heating operation resulting in consolidation of the nickel powder into a nickel article, said consolidation being assisted by the application of mechanical pressure at a time following the beginning of the heating.

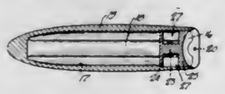
2,159,605
MONOARYLIDES OF AROMATIC DICARBOXYLIC ACID HALIDES
Willy Schumacher and Paul Heimke, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application December 22, 1937, Serial No. 181,164. In Germany December 23, 1936
6 Claims. (Cl. 260—558)

1. The monoarylides of aromatic dicarboxylic acid halides corresponding with the following general formula:

$$R{-}N(Y){-}OC{-}R_1{-}CO{-}X$$

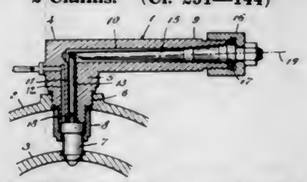
wherein the CO-groups do not stand in orthoposition to each other, R stands for a member of the group consisting of radicals of the benzene and naphthalene series, cyclohexyl and tetrahydronaphthyl, R_1 for a member of the group consisting of phenyl, halogen-phenyl, nitro-phenyl and naphthyl, X stands for a member of the group consisting of chlorine and bromine, and Y for a member of the group consisting of hydrogen and alkyl, being crystallized compounds which give the reactions usual for acid halides and react, for instance, with aromatic amines with formation of the corresponding diarylides.

2,159,606
FISH BAIT
Charles A. Scogland and Philip H. Sanders, South Bend, Ind., assignors to South Bend Bait Company, South Bend, Ind., a corporation of Indiana
Application June 28, 1937, Serial No. 150,686
7 Claims. (Cl. 43—46)



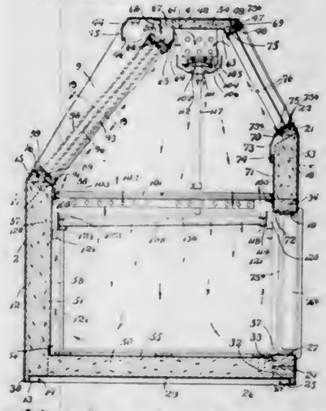
1. A fish bait body comprising an elongated hollow molded portion open at one end, and a head fitting in said hollow portion at said open end, said head comprising a pair of closure plate portions within the cavity of said hollow portion, and a web rigidly interconnecting said plates.

2,159,607
INTERNAL COMBUSTION ENGINE VALVE
Heinrich Wälti, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application November 13, 1936, Serial No. 110,643
In Switzerland December 18, 1935
2 Claims. (Cl. 251—144)



1. A fuel injection valve assembly for internal combustion engines in which the valve member is adapted to close against a high fuel pressure, which comprises an angular housing having a pair of intersecting bores, one located in each angular portion of the housing, and a conical seat in axial alignment with one of said bores, an injection valve needle mounted in one of said bores, a spring rod mounted in the other bore, said spring rod having the end furthest from the valve needle provided with a conical portion, and means for holding the conical portion of said spring rod against the conical seat of the valve housing to thereby firmly secure said spring rod to the valve housing, and the free end of said spring rod loading the valve needle and being movable outwardly in the direction in which the valve needle extends.

2,159,608
REFRIGERATOR
James H. Ward, Jr., Niles, Mich., assignor, by mesne assignments, to Tyler Fixture Corporation, a corporation of Michigan
Application April 17, 1936, Serial No. 74,868
5 Claims. (Cl. 312—116)



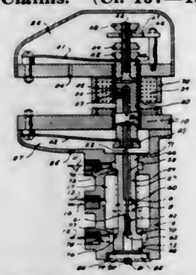
1. A refrigerator construction comprising a front panel having an inwardly extending flange at its lower edge, said flange terminating in an upstruck portion, and end panels connected to each end of the front panel, each having inwardly extending flanges therearound, a portion of the flange on each member terminating in an extended L-shaped portion and a rear wall structure likewise having an inturned flange at its lower edge, said flange terminating in an upstruck portion, movable closure means located above the rear wall structure and extending upwardly to the top of the construction, a top construction and a transparent front member located between the top and the upper edge of the front panel supported on said L-shaped portions and a bottom member having its opposite sides turned downwardly to form supporting flanges, the width of the bottom member being such as to position the flanges within the upwardly facing channels formed interiorly of the lower side edges of the construction.

2,159,609
CAP
Frank J. Wengen, Milwaukee, Wis., assignor to Eagle Knitting Mills, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application January 15, 1938, Serial No. 185,130
3 Claims. (Cl. 2—209)



1. A cap assemblage comprising, a flexible crown formed to snugly engage the top of the wearer's head, a rigid resilient support attached to and concealed by the lower edge portion of said crown and having end portions outwardly penetrating the material of said crown, and ear muffs pivotally suspended from the protruding ends of said support on opposite sides of said crown edge portion, said muffs being swingable to various positions of snug engagement with the wearer's head and externally over said crown.

2,159,610
ELECTROMAGNETIC CONTROL DEVICE
John D. West, Manitowoc, Wis., assignor to Manitowoc Shipbuilding Corporation, Manitowoc, Wis.
Application August 20, 1937, Serial No. 160,108
6 Claims. (Cl. 137—139)

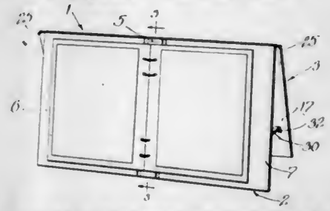


1. An electromagnetically controlled differential valve comprising a casing having a chamber provided with a delivery opening and having fluid pressure inlet and outlet ports adapted to be selectively placed in communication with said chamber, an unbalanced differential valve controlling said ports and biased by the fluid pressure within said chamber towards exhaust position with the inlet port closed and the outlet port open and having a neutral position closing both ports, said differential valve occupying said neutral position under both active and inactive conditions, and electromagnetic means urging said unbalanced differential valve in a direction in opposition to that towards which said valve is biased by the fluid pressure in said chamber.

2,159,611
SPRAY OIL EMULSIFIER
Arthur E. Allum, Jr., Garden Grove, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 20, 1937, Serial No. 180,835
11 Claims. (Cl. 167—43)

1. An emulsifiable hydrocarbon spray oil composition comprising a normally liquid plant spray mineral oil, and an emulsifying amount of a high-acid fish oil obtained from the acid sludge from the sulfuric acid refining of fish oils by neutralizing the sludge with an alkali to separate the said high-acid fish oil from the sludge.

2,159,612
PORTABLE DISPLAYER
Arthur M. Barrett, Winnetka, Ill., assignor to The Barrett Bindery Co., Chicago, Ill., a corporation of Illinois
Application June 29, 1938, Serial No. 216,537
7 Claims. (Cl. 281—33)



1. A portable displayer comprising a central member, sheet binding means carried thereby, panels hingedly connected to said central member for folding movement, and a cover unit comprising a central member and a pair of cover panels hingedly connected to said central cover member, the latter and said cover panels being hingedly connected to said first mentioned central member and panels along their upper edges whereby the cover panels completely enclose the first mentioned panels when the displayer is closed and serve as a supporting easel when the displayer is open.

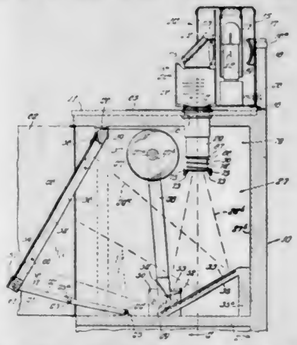
2,159,613
ADHESIVE
Paul B. Davidson, Wilkinsburg, Pa., and Julius R. Adams, Westfield, Mass., assignors to Old Colony Envelope Company, Westfield, Mass., a corporation of Massachusetts
No Drawing. Application April 18, 1935, Serial No. 17,128. Renewed November 10, 1938
1 Claim. (Cl. 134—23.4)

As a new article of manufacture, an adhesive comprising in combination, acetic acid, water, dextrin and a polyhydroxy alcohol consisting of sorbitol.

2,159,614
IMAGE PROJECTION CABINET
Howell G. Evans, Two Rivers, Wis., and Bertel J. Kleerup, Chicago, Ill., assignors to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application April 10, 1937, Serial No. 136,088
5 Claims. (Cl. 88—24)

1. In an image projection cabinet having an exterior substantially horizontal working surface and an aperture therein, a projector lantern

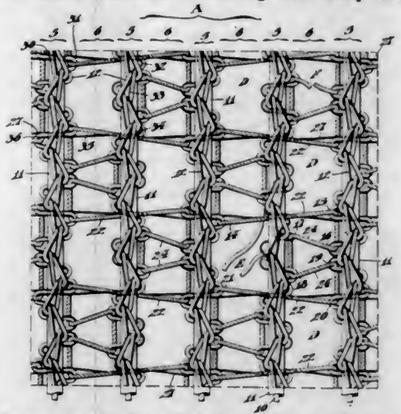
mounted on said surface to swing toward and away from the said aperture, a glass plate in said aperture substantially flush with said surface whereby a film may be slid across said surface in a single plane onto said glass plate, the lantern carrying another glass plate movable with the lantern toward and away from the said surface and adapted to press the film against the first glass plate to maintain the film in said plane, an objective lens system mounted in said cabinet beneath said aperture, said lens system comprising adjustable telescoping sections, one of which is carried by the upper wall of said cabinet and the other independently carried within the cabinet, means accessible on the exterior of the cabinet for adjusting said last mentioned telescoping section, a sight opening in said cabinet at right angles to the lens system, a translucent screen in said opening, said screen being mounted on a horizontal axis adjacent the under side of the upper wall of said cabinet whereby it may be swung from a vertical position to a position inclined with respect to said sight opening and partially projected through said sight open-



ing, means releasably maintaining the screen in said inclined position, a pair of doors for said sight opening hinged on vertical axes at the sides of said cabinet, said doors being movable to jointly form a closure for said sight opening when the screen is in vertical position and movable to positions respectively along each side of said screen when the screen is inclined, a mirror within the cabinet aligned with said lens system and arranged whereby an image from said firm may be projected onto the rear of said screen, a pair of arms mounted within the cabinet adjacent the lower wall thereof on each side of said mirror, said arms being resiliently biased to a substantially vertical position with their free ends adjacent the under side of the upper wall of said cabinet, a paper supply roll journaled on the free ends of said arms whereby the screen may be raised to horizontal position and the arms may be swung downwardly to horizontal position to replace said paper supply roll and whereby when restored to operative position a web of said paper may be drawn over said screen for drawing purposes, and means on the screen releasably retaining the said web thereon.

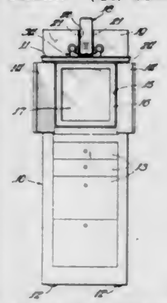
2,159,615
WARP KNIT FABRIC
Kurt Kaak, West Reading, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania
Application October 13, 1937, Serial No. 168,713
6 Claims. (Cl. 66—192)

1. A warp knit fabric including warps, yarns having warp stitch chain portions covering said warps, yarns having weft portions and warp stitch chain portions following the warp stitch



chain portions of said first yarns, and strands having warp and weft portions and linking the chains of said yarns.

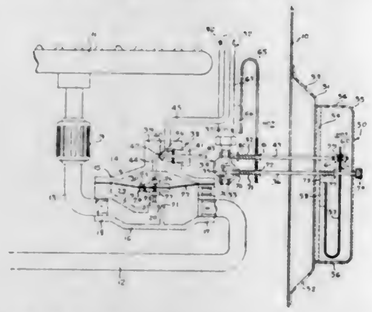
2,159,616
IMAGE PROJECTION DEVICE
Bertel J. Kleerup, Chicago, Ill., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application April 26, 1937, Serial No. 138,882
1 Claim. (Cl. 88—24)



In an image projection device for use with a horizontal flat working surface and a projection lantern mounted to swing into and out of register over an aperture in the surface, the combination with a downwardly spring pressed glass plate carried by the lantern for register with said aperture, of a unitary film carriage separable from the cabinet and lantern, said carriage comprising reel means including rotatable spool supports for a strip film reeled thereon and a frame carrying said spool supports upstanding thereon, said frame having a flat plate portion extending horizontally beneath the reels and including a central portion between the reels which is downwardly offset out of the main plane of the frame, the lower face of said downwardly offset portion providing registering means receivable in said aperture for registering the carriage thereover and the upper surface thereof providing a track for the film in substantially the plane of the said working surface when the film is pressed against said upper face of the downwardly offset portion by the said glass plate carried by the projector lantern, said downwardly offset portion being

cut out centrally to provide a frame for and carrying another glass plate flush with said offset portion and also in register with said aperture when the carriage is placed in position as described.

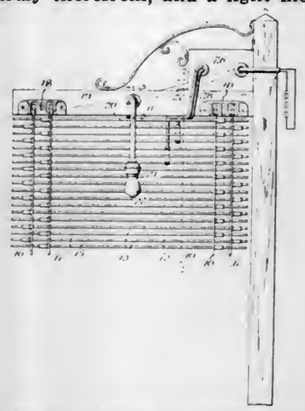
2,159,617
FLUID FUEL BURNER CONTROL SYSTEM
Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 15, 1936, Serial No. 74,481
1 Claim. (Cl. 236—21)



In a fluid fuel burner control system, a main burner, a pilot burner, a main valve controlling the flow of fuel to said main burner, a pressure motor for operating said main valve, means for supplying a pressure fluid to said motor to operate the same, a control valve for controlling the pressure in said motor, said pressure motor being operative when said control valve assumes a first position to move said main valve to open position and when said control valve assumes a second position to move said main valve to closed position, means responsive to a controlling condition for varying the position of said control valve, a pilot burner valve controlling the flow of fuel to said pilot burner, means responsive to the presence of a flame at said pilot burner and directly operative to move said control valve to said second position and to close said pilot burner valve in the absence of a flame at said pilot, said last named means being connected to said pilot burner valve through a strain release connection to permit opening of said pilot burner valve when closed without movement of said last named means and consequently without moving of said control valve.

2,159,618
ELECTROCUTING TRAP
Edward A. Lindsley, Chicago, Ill., assignor to National Electric Screen Co., Chicago, Ill., a corporation of Illinois
Application March 15, 1937, Serial No. 130,808
2 Claims. (Cl. 43—112)

1. A device comprising a plurality of electric conductor bars disposed in a single plane, insulating means between the bars, sets of electrocuting elements in spaced relation connected to said bars and having free ends, said conductor bars being supported at their upper ends only and said electrocuting elements being disposed in a single plane and having their free exposed ends substantially unobstructed, a single horizontal support constituting the sole means to which the bars and insulating elements are connected, a light bracket secured to an intermediate portion of the longitudinal support and extending downwardly therefrom, and a light mounted on



said bracket and located substantially medially of the plane area of the electrocuting elements.

2,159,619
FRUIT AND OTHER PRODUCT WASHING MACHINE
Howard C. Lisle, Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application October 2, 1935, Serial No. 43,270
4 Claims. (Cl. 146—194)

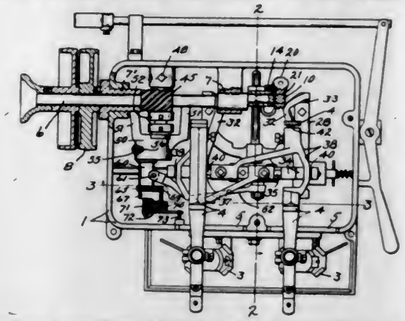


4. In an apparatus for removing accumulated residues from the surface of fruit or the like product, a tank for holding a supply of treating liquid, a partition horizontally disposed in said tank below the liquid level to provide a fruit treating zone of liquid thereabove, means for moving fruit through said liquid treating zone, means separate from said feeding means for circulating the liquid in said tank to flow in the same direction as said fruit is being conveyed but traveling at a higher speed so that the liquid flows past the fruit as it moves through said liquid treating zone, and means for driving said fruit moving means and said liquid circulating means to provide a joint control thereof over the travel of fruit through said zone whereby to provide a definite flow of liquid past the moving fruit to thereby insure a continuous supply of fresh treating liquid for flowing over and past the moving fruit.

2,159,620
LENS GRINDING AND POLISHING MACHINE
Eli Maynard Long, Geneva, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York
Application July 26, 1937, Serial No. 155,666
12 Claims. (Cl. 51—160)

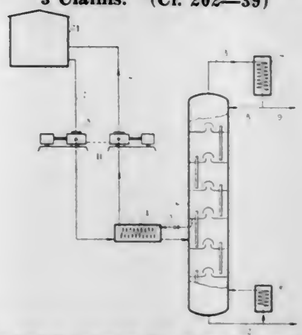
1. In a lens grinding and polishing machine having a lens grinding element and a lens holding element mounted in cooperative relation with each other, in combination, operating mechanism for producing relative movement of said elements to effect grinding of the lens carried by

the holding element comprising two operating members, two drive means, one for each operating member, means operatively connecting said drive means with the operating members for producing reciprocative movement of each operating member in directions substantially normal to the reciprocative movement of the other op-



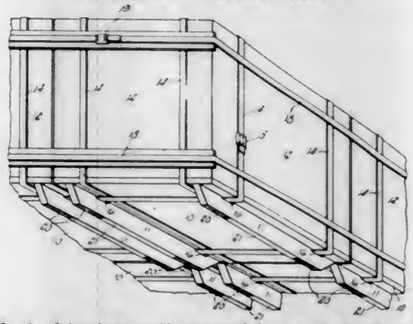
erating member, each of said connecting means including a break-up mechanism adapted to cause variations in the reciprocative movement produced by said connecting means to effect operation of the operating member through continuously changing paths, and means for simultaneously operating said drive means.

2,159,621
PROCESS FOR THE BATCH DISTILLATION OF LIQUID MIXTURES
Willem Johannes Dominicus van Dijck, The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 8, 1937, Serial No. 129,564
In the Netherlands March 12, 1936
3 Claims. (Cl. 202—39)



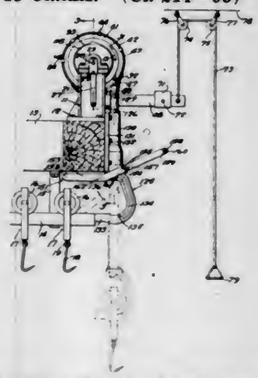
1. The batch process for fractionating a quantity of a liquid distillable mixture containing a plurality of constituents of progressively different volatilities comprising confining said mixture in an unheated storage vessel, withdrawing a relatively small stream of said mixture from the storage vessel and introducing the same into an intermediate point of a distillation zone provided with dephlegmating and stripping sections, maintaining within the zone countercurrent streams of vapors and liquid reflux, simultaneously withdrawing top and bottom products from opposite ends of the zone and withdrawing at least a portion of the reflux from the dephlegmating section and from the distillation zone, introducing the withdrawn reflux into the storage vessel into contact with the remaining portion of the mixture and passing a relatively small stream of the resulting mixture to the said distillation zone, while withdrawing therefrom the said products and said portion of the reflux the only replenishment of distillable liquid for said tank being said withdrawn reflux.

2,159,622
METHOD AND MEANS FOR LOADING AND TRANSPORTING MERCHANDISE
Robert V. Sanford, Hartford, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application June 12, 1936, Serial No. 84,781
6 Claims. (Cl. 105—369)



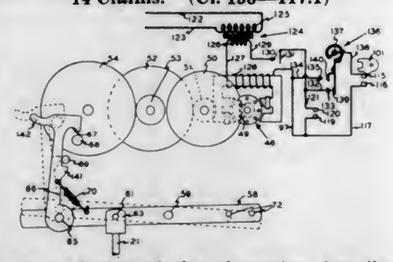
1. A shipping unit comprising a load of merchandise, a skid supporting said load and having a bottom face engaging a vehicle floor during transportation, and an extremely thin layer of bonding material having a granular abrasive surface between said bottom face and the vehicle floor arranged to frictionally retard the movements of said load relative to the vehicle floor.

2,159,623
DROPPER FOR CARCASSES AND THE LIKE
Oscar C. Schmidt, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application March 23, 1938, Serial No. 197,741
15 Claims. (Cl. 214—95)



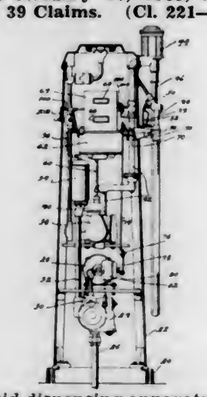
1. In a dropper, the combination of a series of spring motors connected in series about a common axis, a reel about said common axis for a flexible connection to receive a load and having operative connection with one end of said series, an anchor for the other end of said series, the springs of said motors being serially operatively connected end to end, means for rotatively adjusting said anchor whereby to adjust the tensions of the springs in all said spring motors, and a brake having operative connection with said reel to control rotation thereof.

2,159,624
VALVE SYSTEM
Sylvanus C. Shipley, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 19, 1934, Serial No. 753,557
14 Claims. (Cl. 158—117.1)



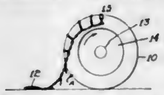
1. In a device of the character described, a normally closed valve, automatic means associated with said valve for opening said valve, a cover enclosing said automatic means, means associated with said automatic means and extending outwardly through said cover whereby said valve may be manually opened, and latch means within said cover to prevent manual opening of said valve, said latch means being ineffective to restrain manual opening of said valve after a predetermined initial opening movement thereof.

2,159,625
LIQUID DISPENSING APPARATUS
Ross H. Arnold and William G. Polhamus, Fort Wayne, Ind., and Howard Somervell, Evanston, Ill., assignors to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland
Application January 17, 1935, Serial No. 2,282
39 Claims. (Cl. 221—95)



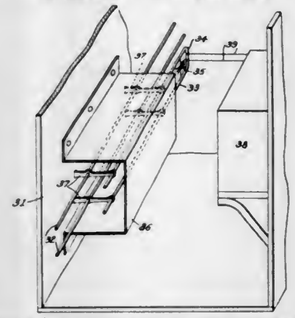
1. In liquid dispensing apparatus, the combination of a pump the suction side of which is adapted to be associated with a source of liquid supply, a meter the inlet side of which is connected to the outlet side of said pump, an outlet pipe from said meter, a discharge hose connected to said outlet pipe, an indicator operated by said meter for showing that flow of liquid has been effected through said meter, a control for starting and stopping operation of said pump, and valve means operative to open and closed position and disposed in said outlet pipe, said valve means being operative to one position by said control and to the other position by said indicator for preventing dispensing of liquid until said indicator has been set to a predetermined position after said control has been started and stopped and an amount of liquid has been dispensed.

2,159,626
TIRE CHAIN APPLYING DEVICE
Harold D. Boycott, Knapps Creek, N. Y.
Application March 15, 1938, Serial No. 195,993
8 Claims. (Cl. 81—15.8)



1. A tire chain attaching device comprising a pair of base members terminating in angular extensions, an arm pivotally secured to each such angular extension, cooperating spring and latch means for maintaining said arms normally in upright position, and means for securing said base members in spaced adjustable relationship.

2,159,627
SHIELDING ARRANGEMENT FOR HIGH FREQUENCY TRANSMISSION SYSTEMS
Paul F. Byrne, West Caldwell, N. J., assignor to Federal Telegraph Company, Newark, N. J., a corporation of California
Application July 14, 1938, Serial No. 219,132
8 Claims. (Cl. 178—44)

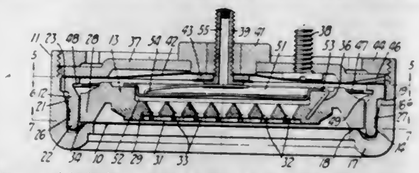


1. A high frequency transmission system, comprising a transmission line, a wave modifying network spaced from said line and coupled thereto, said network being coupled differently at one end than at the other end, and means for preventing disturbance of said coupling comprising a grounded metal screen spaced from said network and said transmission line and extending about said section and the portion of the transmission line adjacent thereto.

2,159,628
TELEPHONE TRANSMITTER
Ernest G. Danielson, San Francisco, Calif., assignor to Remler Company Ltd., San Francisco, Calif., a corporation of California
Application January 20, 1936, Serial No. 59,877
3 Claims. (Cl. 179—111)

3. An electrode for a telephone transmitter of the condenser type, comprising a relatively flat rigid body formed integrally of molded conden-

sate material, a portion of the body intermediate its peripheral edge portion comprising a homogeneous mixture of condensate material and electrically conductive particles, whereby said intermediate portion is rendered electrically conduc-



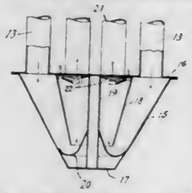
tive, said intermediate portion having openings therein and having one planar side face, said side face being interrupted by grooves which communicate with said openings, the peripheral edge portion of the body being electrically non-conductive.

2,159,629

DISTRIBUTOR FOR PNEUMATICALLY TRANSPORTED SOLID MATERIAL

Ralph M. Hardgrove, Westfield, N. J., and David E. Griesemer, Allentown, Pa., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

Application June 1, 1936, Serial No. 82,804
9 Claims. (Cl. 302—28)



1. A distributor for pneumatically transported solid material comprising an outer shell having an inlet opening arranged in the top thereof for the entry of the material to be distributed, a baffle arranged within said shell with its upper end extending to the top of said shell and its lower end terminating above the bottom of said shell, said baffle being arranged to divide said shell into serially connected inlet and outlet chambers, each of decreasing cross-sectional area toward its lower end, and a series of branch pipes opening through the top of said shell and communicating with the upper end of said outlet chamber.

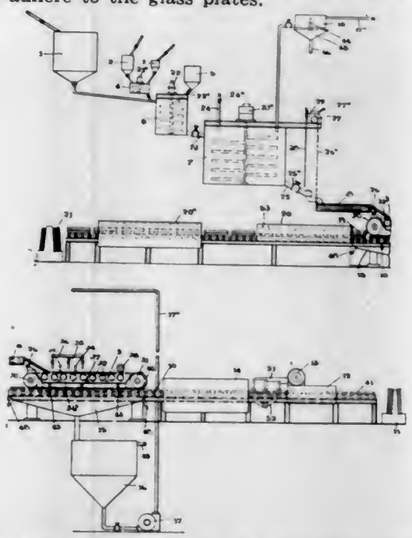
2,159,630

PROCESS AND APPARATUS FOR MAKING SAFETY GLASS

Elmer H. Haux, Tarentum, and Earl L. Fix, New Kensington, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application March 17, 1936, Serial No. 69,298
9 Claims. (Cl. 49—81)

3. A process of making laminated sheets consisting of pairs of glass sheets with interposed interlayers of synthetic resin, which consists in forming a mixture of synthetic resin, plasticizer, solvent and water, feeding a mat layer from the mixture in a continuous horizontal layer, removing a substantial portion of the solvent and water from the layer, applying rolling pressure to the layer, conducting such layer onto a series of closely spaced glass sheets moving in the same direction as the layer with the edges of the layer on spaced supports extending out past the edges of the glass sheets, causing such layer edges to separate from the layer and drop away therefrom and from the supports as the assemblies move forward, applying other glass sheets on the assemblies, and then carrying the assemblies through a roller press to cause the resin layers to adhere to the glass plates.



7. Apparatus for making laminated glass, which comprises means for forming continuously a mat layer consisting of synthetic resin, plasticizer, solvent and water, and including an endless belt conveyor having upper and lower horizontal flights, suction means over which the belt extends, a second conveyor positioned to receive the mat layer from the first conveyor comprising spaced supports and adapted to carry a series of glass plates beneath the mat layer so that such layer overlies the sheets and moves therewith at the same rate of travel, air pressure means for separating from the mat layer those portions which extend out past the edges of the glass sheets, a container beneath the second conveyor for receiving the edge portions of the mat layer, heating means for curing the resin past which the second conveyor travels, preliminary to the application of second sheets of glass to the assemblies to complete them, and a roller press through which the complete assemblies are carried by the second conveyor.

2,159,631

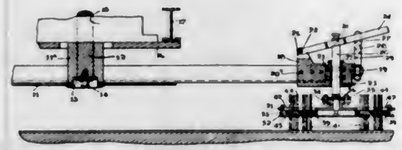
APPARATUS FOR REMOVING PLASTER FROM PLATE GLASS SURFACING TABLES

John D. McLeod, Oakmont, and Harry A. Reynolds, Ford City, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application November 1, 1935, Serial No. 47,896
5 Claims. (Cl. 15—93)

1. Apparatus for cleaning plaster from plate glass surfacing tables mounted for movement along a track, said apparatus comprising a support mounted for rotation about a vertical axis and consisting of a pair of opposing perforated clamping plates lying in horizontal planes, clamps lying between the plates at said perforations and having vertical openings therethrough, means for releasably securing the plates together with the

clamps held therebetween, abrading members extending vertically through the perforations in the plates and the openings in the clamps, said



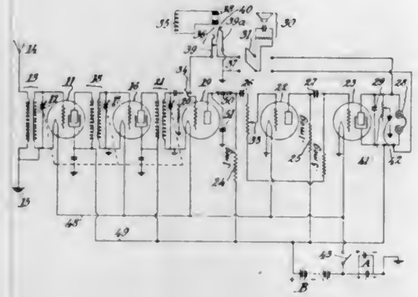
abrading members being held against vertical movement therethrough by said clamps, and means for adjusting the support downwardly as said members are worn away.

2,159,632

COMBINATION RADIO RECEIVER-HEARING AID UNIT

James J. Morey, Bloomfield, N. J., assignor to Harold H. Fries, doing business as Fries Bros., New York, N. Y.

Application September 24, 1938, Serial No. 231,574
12 Claims. (Cl. 179—2)



1. A hearing aid device for deaf persons comprising a radio receiver having a tuned radio frequency input circuit, a detector circuit including an electron tube having its input coupled to the output of the tuned radio frequency circuit, an audio frequency amplifying circuit including an electron tube having its input circuit coupled to the output of the detector circuit, a headphone set coupled to the output of the audio frequency amplifier circuit, and a loud speaker also coupled to the output of the audio frequency amplifying circuit; means for uncoupling the tuned radio frequency circuit and the detector; and means for uncoupling the speaker from the output of the audio frequency amplifying circuit, and for coupling it to the input of the audio frequency amplifying circuit, such speaker then serving as a microphone to pick up local conversation for the benefit of the deaf person.

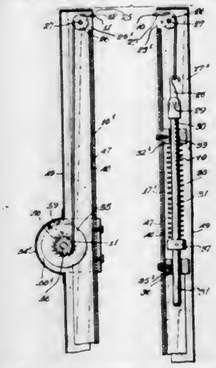
2,159,633

POST FOR TENNIS NETS

Samuel H. Petersen, Philadelphia, Pa.

Application April 17, 1936, Serial No. 74,843
15 Claims. (Cl. 273—29)

1. A pair of posts for supporting the cable of a tennis net or the like, including a compressible spring within and extending generally longitudinally of one of the posts, a projection connected with the cable and adapted to engage the end of the spring farther from the other post,



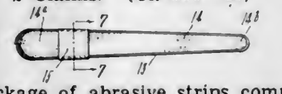
and means for compressing the spring against the projection to tighten the cable.

2,159,634

PACKAGE OF ABRASIVE STRIPS

Ralph T. Pitt, Quincy, Mass., assignor to Abrasive Products, Inc., Boston, Mass., a corporation of Massachusetts

Application July 19, 1938, Serial No. 219,982
2 Claims. (Cl. 206—46)



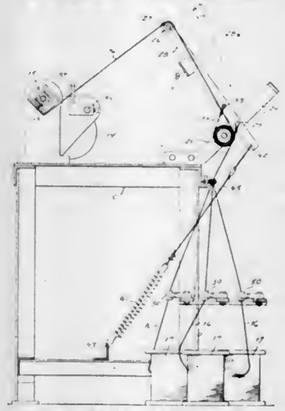
1. A package of abrasive strips comprising a stack of such strips each of diminishing width from one end portion to the other end portion, an open frame encompassing said stack of strips at their edges, and a band encompassing the frame transversely of said stack and slidable on said frame from its narrow-end portion to its wide-end portion, said band being engageable firmly with the wide-end frame portion to maintain the strips as a stack within said frame.

2,159,635

COIL WINDING APPARATUS

Percival K. Ranney, Lakewood, Ohio

Application June 23, 1937, Serial No. 149,835
9 Claims. (Cl. 242—25)

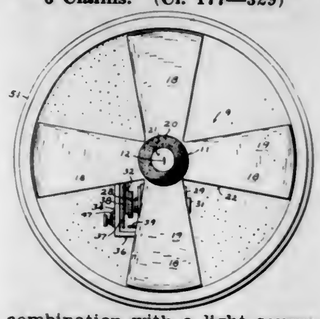


5. In a coil winding machine, the combination

of a mandrel upon which a plurality of coils is adapted to be wound in spaced relationship, a source of wire supply for each coil, means common to all of the wires for exerting a restraining force against the movement thereof, a member common to all of the wires for holding them in a bight between the point at which the restraining force is applied and the mandrel, said member being movable to compensate for variations in the stresses that are exerted upon the wires when the machine is started and stopped, and a brake engaging said means and controlled by movement of said member.

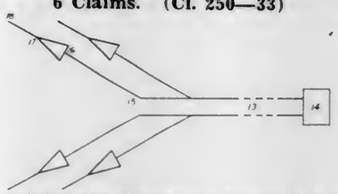
9. In a coil winding machine, the combination of a support upon which a plurality of coils of wire may be wound, means for rotating the support, a source of wire supply for each coil, means for guiding all of said wires so as to form a shed, means movable by the wires and common to all of them for engaging and retarding them, a brake acting on said means and mechanism for automatically actuating the brake upon starting and stopping of the rotating means.

2,159,636
SIGNAL LIGHT
Augusta E. Robert, Oakland, Calif.
Application July 23, 1937, Serial No. 155,228
6 Claims. (Cl. 177—329)



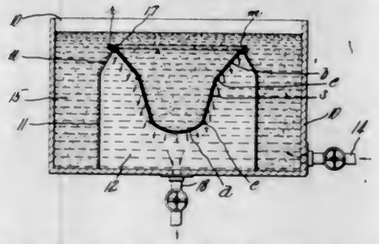
1. In combination with a light source, an optical signal means comprising a convex reflector providing a specular band surface fixedly spaced from the light source and radiating from the axis of generation of said surface and constantly operative to project the light striking it from said source in a distinctly bounded beam which is visible as a light band and in its full intensity only when it is viewed from a point in the beam and means whereby the light from said source which does not strike said specular band surface is kept away from said beam.

2,159,637
ANTENNA SYSTEM
George T. Royden, Palo Alto, Calif., assignor to Mackay Radio & Telegraph Company, San Francisco, Calif., a corporation of California
Application April 30, 1935, Serial No. 19,002
6 Claims. (Cl. 250—33)



6. A unidirectional antenna system for radiant action with respect to a desired direction, comprising two substantially linear wires of different resistance per unit length disposed end to end along a line obliquely inclined to said desired direction and coupled to each other at their adjacent ends to constitute a conductor of varying attenuation along its length and a transmission line coupled to that end of said conductor which has the lower attenuation.

2,159,638
MANUFACTURE OF MOLDED, WATERLAID FIBER ARTICLES
Milton O. Schur, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine
Application October 22, 1935, Serial No. 46,103
3 Claims. (Cl. 92—57)

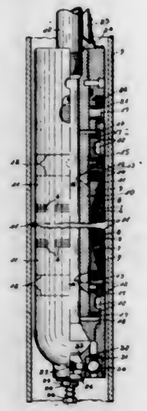


1. A method of making a molded, waterlaid fiber article imitative of a genuine felt article, which comprises depositing fiber and flocculated rubber from aqueous suspension into approximate article shape on a porous, yarn-fabric mold, dewatering the article to a self-sustaining condition on said mold, separating the article from said mold, stretching the article to its final shape on another mold, and surfacing the article with fiber flock.

2,159,639
ARTIFICIAL LEATHER MANUFACTURE
Milton O. Schur, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine
No Drawing. Application June 4, 1936, Serial No. 83,515
3 Claims. (Cl. 154—2)

1. A process of making artificial leather possessed of resistance toward permanent unleatherlike marking or wrinkling upon being crumpled, which comprises forming a web of interfelted fibers of sponge-like structure wherein the void space vastly exceeds that occupied by fibrous substance, impregnating the web with a liquid composition containing resilient binder and capable of being set to strengthen said web, the amount of substance deposited by said composition upon its being set in said impregnated web being at least about 35%, based on the dry weight of fiber while leaving in the web void space comprising at least about 50% of the total volume, bringing the impregnated web while wet into facial contact with a substantially impermeable, smooth background, setting the impregnant content of the impregnated web while such web is in facial contact with such background, and surfacing the face of the web previously in contact with such background with a thin, strongly adherent, preformed skin of wear-resistant finishing material while avoiding material penetration of said material into the body of said web, thereby producing a surfaced, impregnated sheet characterized by its high residual body sponginess and its ability to recover from crumpling without acquiring permanent unleatherlike markings or wrinkles on said skin.

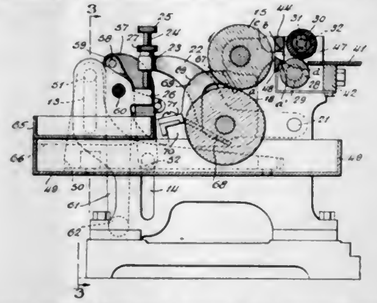
2,159,640
DEEP WELL CEMENTING DEVICE
Carl E. Strom, South Gate, Calif.
Application August 29, 1938, Serial No. 227,367
11 Claims. (Cl. 166—12)



1. In a well cementing device, a body including a hollow tubular center-member by which a pressure medium and cementing material can be passed into a well and having a portion forming a cylinder, actuating sleeves shiftably mounted on the center-member and in operative relation to the cylinder, a conduit forming communication between the hollow of the center-member and the cylinder and bringing the pressure medium to act upon the sleeves axially, and a packing made of a material facilitating the embedding of metal catching devices during the manufacture of the packing and having the catching devices embedded so as to protrude from one side of the packing with a sliding surfacing and from the opposite side with a catching surfacing and having furthermore wedges loosely disposed in the packing against said sliding surfacing whereby the catching devices are forced against the inner side walls of a surrounding well-casing as the packing is compressed by means of said sleeves through the pressure medium.

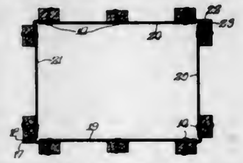
2,159,641
GUMMING MACHINE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application February 11, 1937, Serial No. 125,237
5 Claims. (Cl. 91—50)

4. In a gumming machine of the kind described, the combination of gumming means, vertically movable supporting members including horizontally extending sections, an adhesive containing pan removably carried by the horizontally extending sections of said supporting members and normally maintained thereby in operative relation to said gumming means, a pan for cleaning liquid movably mounted on said adhesive containing pan, adjusting means for vertically adjusting said supporting members to permit said pan for cleaning liquid to be shifted into operative relation with said gumming means to effect a cleaning of the latter, and releasable means for



locking said adjusting means to prevent vertical movement of said supporting members.

2,159,642
CONTAINER
James R. Watkins, Niles Center, Ill.
Application March 9, 1936, Serial No. 67,766
3 Claims. (Cl. 217—48)

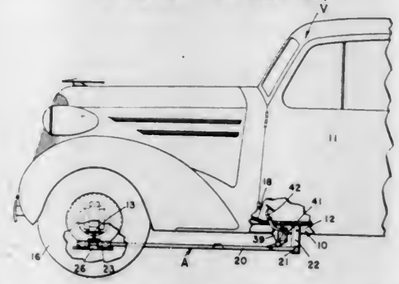


3. A collapsible tubular shipping container structure comprising a body formed of sheet fibrous material to provide four side walls for the structure, two of said side walls at one corner of the structure being extended beyond the corner which they define to provide opposed marginal extensions outside the confines of the structure and one of said marginal extensions being scored on its outer face at the juncture with the wall from which it extends to afford a hinged connection with said wall permitting said extension to assume a position perpendicular to the plane of said wall, and means securing said marginal portions together outside of the container, the walls at the remaining corners of the structure being hingedly connected to enable the structure to be collapsed into flat position.

2,159,643
METHOD FOR PRODUCING CELLULOSE ESTERS
Richard Weingand and Ernst Acker, Bomlitz, near Walsrode, Germany, assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application November 10, 1937, Serial No. 173,862. In Sweden May 4, 1935
8 Claims. (Cl. 260—222)

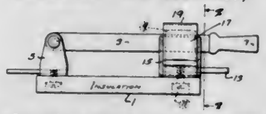
1. A process which comprises treating cellulose wood fibres with relatively dilute alkali containing from about 7½ to 9% alkali at an elevated temperature and pressure to disintegrate the wood fibres and to separate non-cellulose components therefrom, thereafter treating said disintegrated fibres with a relatively concentrated alkali containing from about 9 to 20% alkali at atmospheric temperature and pressure to remove the non-cellulose components from the fibres, forming said fibres into a sheet without subjecting said sheet to substantial pressure during sheeting and drying.

2,159,644
ATTACHMENT FOR STEERING GEARS OF MOTOR VEHICLES
Arthur F. Woida, Milwaukee, Wis.
Application December 13, 1937, Serial No. 179,542
Renewed April 3, 1939
3 Claims. (Cl. 280—89)



1. The combination with a motor vehicle including a front swinging steering knuckle, a wheel spindle, and a brake cover plate rigidly attached to the knuckle and spindle, of means for holding the spindle against accidental swinging movement including, a latch lever rockably connected with the brake cover, a keeper plate rigidly connected with the chassis of the vehicle, spring means normally holding the latch lever in a raised elevated position away from the keeper plate, and manual means for depressing the latch lever against its spring means into operative connection with the keeper plate.

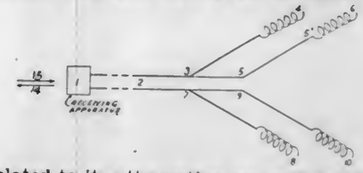
2,159,645
ARC QUENCHER
Frederick B. Adam, St. Louis County, and Floyd S. Green, St. Louis, Mo., assignors to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri
Application November 14, 1936, Serial No. 110,824
2 Claims. (Cl. 200—147)



1. In an electric switch in combination, a supporting base, a stationary contact, a movable contact, and an arc quencher comprising a thin plate of magnetic sheet metal having a central portion positioned under and insulated from the stationary contact and having upwardly extending parallel side portions on opposite sides of the stationary contact, the side portions of the plate having their upper ends extending inwardly at right angles to the side portions, said end portions spaced apart above the stationary contact to provide a narrow gap for passage of the movable contact, the current through the contacts serving to produce a magnetic field between the opposed end portions of the plate.

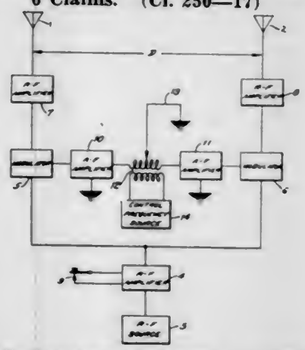
2,159,646
ANTENNA
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application April 30, 1935, Serial No. 18,994
6 Claims. (Cl. 250—33)

2. In an antenna system, a transmission line, an antenna wire a plurality of wavelengths long connected therewith, and an artificial line insulated from ground and having a surge impedance substantially equal to the surge impedance of said antenna wire connected to the free end of the wire and constituting a non-radiating, non-reflecting terminating impedance device for said antenna wire said artificial line being formed of resistance wire and having an electrical length



so related to its attenuation per unit length that wave energy traveling from said wire over said artificial line and then after reflection back over said artificial line to said wire is attenuated to a negligibly small value, and having small physical length with respect to its electrical length whereby the radiant action of such wave energy is negligibly small.

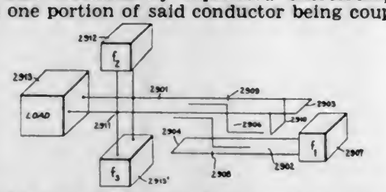
2,159,647
DIVERSITY TRANSMISSION
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application February 17, 1937, Serial No. 126,158
6 Claims. (Cl. 250—17)



1. A radio transmitting system comprising two antennae having substantially similar transmission characteristics, spaced apart a small number of wavelengths of the frequency which is to be transmitted, a modulator for each antenna, a common source of carrier frequency current for the several modulators, means for causing the carrier current in one of said modulators to decrease to a minimum value while the carrier current in the other of said modulators increases to a maximum value, whereby the said antennae are caused to radiate alternately, and means for modulating said common carrier current.

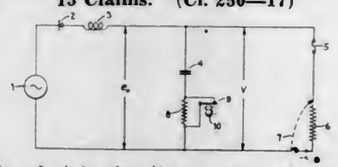
2,159,648
TRANSMISSION MODIFYING NETWORK
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application September 8, 1937, Serial No. 162,853
19 Claims. (Cl. 178—44)

1. In a high frequency transmission system, a transmission line, means for propagating high frequency waves along said line, and means for influencing the transmission of said waves along said line, comprising a conductor coupled to said line and conductively separated therefrom, at least one portion of said conductor being coupled



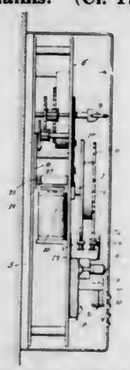
to said line differently from another portion whereby electrical dissymmetry is produced in said conductor and a desired reaction is produced on said line.

2,159,649
CIRCUIT ARRANGEMENT FOR REDUCING TRANSIENTS
Andrew Alford, San Mateo County, Calif., assignor to Mackay Radio & Telegraph Company, New York, N. Y., a corporation of Delaware
Application January 19, 1938, Serial No. 185,681
15 Claims. (Cl. 250—17)



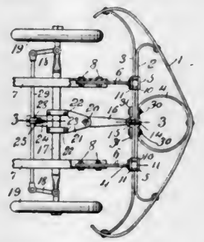
1. An electric circuit arrangement comprising a power line for operating under normal load conditions, an energy storing condenser and a load connected to said line, and a circuit breaker in said line between said condenser and said load, the size of said condenser being such that the energy stored therein under normal conditions is sufficient to open said circuit breaker upon a short circuit at said load.

2,159,650
FIRE ALARM
Hayward R. Alker, Kensington, Conn.
Application June 3, 1937, Serial No. 146,148
3 Claims. (Cl. 179—5)



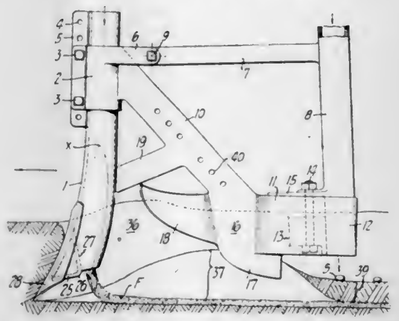
1. In a device of the character indicated, a telephone circuit, a motor, a thermostatic means for starting said motor, a dialing means actuated by said motor to actuate a contact device for dialing central, said dialing means having means thereon for actuating said contact device to an extreme position out of engagement with said dialing means, and means for latching said contact device in said extreme position whereby central will be dialed but once, and means for producing a signal over said telephone circuit after central has been dialed.

2,159,651
SAFETY CAR BUMPER APPARATUS
Thomas K. Brockett, Iola, Kans.
Application June 27, 1938, Serial No. 216,078
9 Claims. (Cl. 293—55)



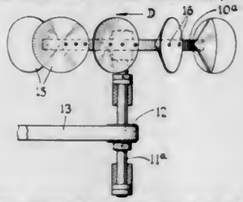
1. The combination with a vehicle having front steering wheels and steering gear for swinging said wheels, of a bumper transversely rectilinearly movable on the front end of the vehicle, and means connecting the bumper with said steering gear by which, when the bumper is moved transversely rectilinearly on the vehicle in either direction, the steering gear will turn the front wheels in that direction.

2,159,652
FERTILIZER AND SEED PLANTER
Anthony T. Brunner, Half Moon Bay, Calif.
Application March 29, 1937, Serial No. 133,551
8 Claims. (Cl. 111—73)



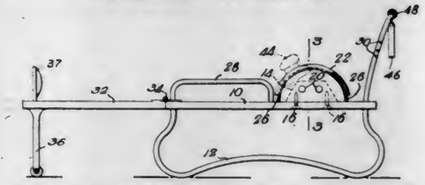
4. In combination with a seed planter having a seed planting tube, a fertilizer distributing unit for attachment to and for removal from said seed planting tube, as a unit, comprising a vertically extending open ended fertilizer pipe for fertilizer having a furrow forming blade at its lower end, pipe supporting means projecting laterally from the side of said pipe opposite the furrow forming blade, means for removably securing said supporting means to the seed planting tube and said supporting means carrying a soil engaging blade arranged and adapted to engage the soil at one side of the furrow formed by said furrow forming blade and to draw soil back into the furrow upon movement of the furrow forming blade for forming a furrow.

2,159,653
POWER WHEEL
Julius E. Carlin, Freehold, N. J.
Application October 1, 1936, Serial No. 103,484
8 Claims. (Cl. 170—10)



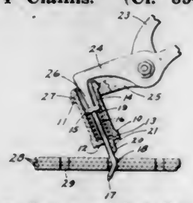
1. A power device of the character described comprising a rotatably mounted vertical shaft, a plurality of wheels mounted on said shaft for rotation therewith, said wheels being disposed on different planes, each of said wheels having mounted thereon for rotation therewith a plurality of circumferentially spaced cone-shaped vanes, the axis of rotation of said vertical shaft being substantially at right angles to the direction of application of power.

2,159,654
OSTEOPATHIC APPARATUS FOR TREATMENT OF THE BACK
De Forest B. Catlin, Wollaston, Mass.
Application October 6, 1936, Serial No. 104,211
8 Claims. (Cl. 128—69)



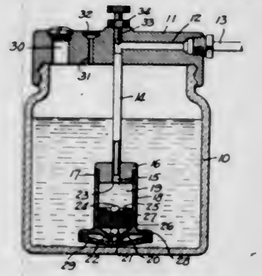
1. An osteopathic device for treatment of the back comprising a pair of arcuate supports disposed in vertical parallel planes and suitably spaced apart so that in use the spine will be received in the space between the supports and the transverse processes of the vertebrae will overlie and transmit the weight of the body to the supports, the curvature of the supports being greater than the normal curvature of the spine so as to provide support for only a small section of the back at one time.

2,159,655
PLATE FASTENING DEVICE
John De Mooy, Shaker Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application January 13, 1937, Serial No. 120,350
Renewed December 4, 1937
4 Claims. (Cl. 85—5)



1. A device for provisionally securing perforated plate-like elements with their perforations in vertical alignment preparatory to riveting comprising a housing, a pin of uniform diameter and less than the diameter of the rivet hole slidable within said housing having an end portion bent to an obtuse angle with respect to the rest of the pin and protruding from said housing for insertion in rivet holes provided through the work, a straight stem depending from said housing and having a semi-annular long groove of the same radius as the pin and partly surrounding said pin in slidable engagement therewith, said stem being of a diameter substantially equal to that of the rivet hole and insertable into the rivet holes for engagement with the internal wall thereof and cooperating with said pin for maintaining said holes in coaxial alignment, and spring means operatively associated with said housing and pin for effecting the clamping of the work between said housing and the bent end portion of said pin.

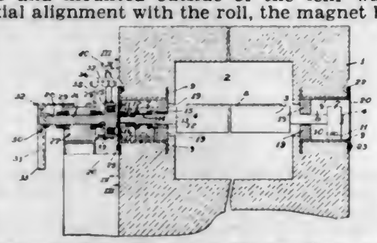
2,159,656
LUBRICATOR
Frank S. Focht, Bell, Calif.
Application December 17, 1936, Serial No. 116,394
11 Claims. (Cl. 123—196)



1. A lubricator comprising a lubricant reservoir; means for receiving lubricant from the reservoir and adapted for conection to an engine intake so as to be subjected to suction created by the engine when in operation; means responsive to suction created by the engine when started, to discharge a body of lubricant from the first means for delivery to the engine intake; means for preventing further discharge of lubricant from the first means so long as the first means is subjected to engine suction; and means for varying the amount of lubricant to be discharged from the first means in accordance with the lapse of time following starting of the engine, until a sufficient length of time has elapsed for a predetermined maximum quantity of lubricant to be accumulated.

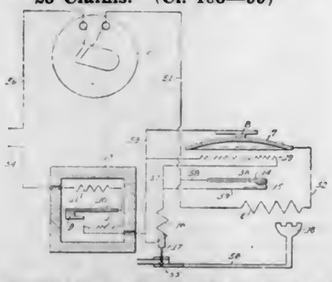
2,159,657
MAGNETIC DRIVE FOR LEHR ROLLS
Emil A. Fusca, Perrysville, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application September 3, 1937, Serial No. 162,281
3 Claims. (Cl. 49—47)

1. The combination with a lehr construction including a plurality of horizontal rolls for carrying work therethrough, of means for driving the rolls indirectly comprising a magnetic member secured to each driven roll at the end thereof and disposed within a suitable housing in the lehr wall with the face adjacent the outer surface of the lehr wall, a cover plate positioned over the housing, and a magnet spaced from the cover plate and mounted outside of the lehr wall in coaxial alignment with the roll, the magnet being



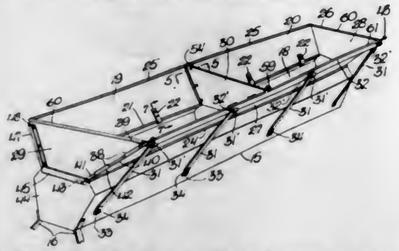
rotatable to drive the magnetic member and the roll upon which it is secured.

2,159,658
CONTROL SYSTEM
William D. Hall, Elkins, W. Va.
Application December 9, 1936, Serial No. 115,270
28 Claims. (Cl. 158—99)



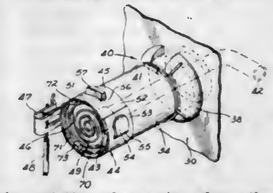
1. In combination, a burner having means controlling the feed of fuel thereto and an ignition system comprising, an igniter, an electric heater, means controlled by heat from said igniter for energizing said heater, and thermostatic means operatively associated with said heater and burner for controlling energization of said igniter.

2,159,659
HOPPER CONSTRUCTION
Arnold E. W. Johnson, Chicago, Ill., and George M. Kriegbaum, Richmond, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application October 28, 1936, Serial No. 108,002
12 Claims. (Cl. 221—118)



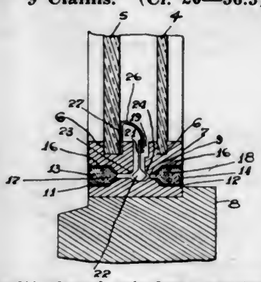
1. The combination with a hopper of a dispensing device having a plurality of lids, and end and side wall members, of an extension hopper, said extension hopper comprising end and side wall members, one of the side wall members of the extension hopper comprising the lids of the hopper in raised position, and means for connecting the lids together forming a tight joint.

2,159,660
ELECTRIC CONNECTOR
Milton M. Kauffman, Los Angeles, Calif.
Original application March 31, 1936, Serial No. 71,841. Divided and this application April 3, 1937, Serial No. 134,746
8 Claims. (Cl. 173—328)



2. A device of the character described for providing electrical connection with an electric means at an aperture in a wall, said device including: a hollow insulator dimensioned to receive a portion of said electric means, said insulator being open at both ends and being adapted for mounting in said wall with the forward end of the insulator extending through said aperture; and an electric connecting means comprising a ring surrounding said tubular insulator, a terminal on said ring for connection with an electric feed conductor, and a yielding contact member connected with said ring and extending across the rear open end of said insulator in spaced relationship therewith.

2,159,661
DOUBLE GLAZED WINDOW
Percy E. Knudsen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 1, 1938, Serial No. 193,297
9 Claims. (Cl. 20—56.5)

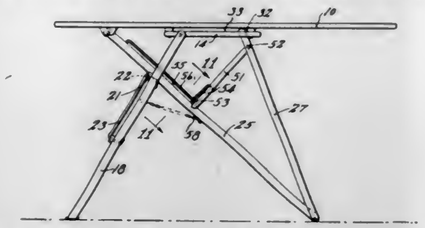


1. A multi-glazed window construction comprising a plurality of sheets of glass secured in spaced parallel relation in a frame to provide a dead air chamber, said frame having inlets formed therein and providing communication between opposite sides of the window and the dead air space between the sheets of glass, valve mechanism disposed selectively to prevent entrance of air from one side of the unit, and temperature-controlled means for operating the valve to prevent air from entering the unit from the warmer side thereof.

2,159,662
IRONING TABLE
George W. Lewis, Hudson, Mass.
Application October 9, 1936, Serial No. 104,866
5 Claims. (Cl. 38—118)

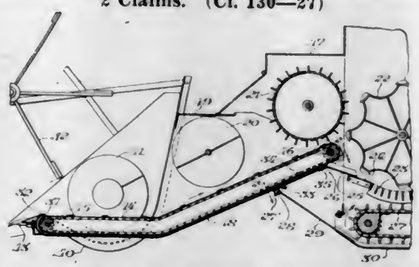
1. An ironing table comprising an ironing board, a pair of leg members pivoted to the under side of the board and pivoted together at their

lower ends to form, with the board, a triangular support when the table is in set-up position, the pivotal connection of one of said leg members to the board being fixed, and a guide for the pivotal connection of the second leg member permitting limited sliding motion thereof toward and from the fixed pivot of the first leg member to permit folding of the leg members against the under side of the board, a third leg member pivoted to the under side of the board between the pivots of said pair of leg members and forming with



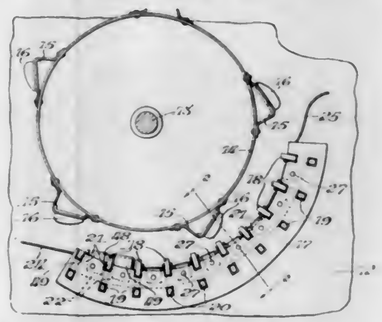
one of said leg members a crossed support, the pivotal connection of said third leg member being fixed, a strut member releasably engageable between that leg member having a slidable pivot and said crossed support to releasably hold said slidable pivot in its position remote from the fixed pivots of the other leg members to lock the table in set-up position, and a connection between those leg members having fixed pivots to prevent their separation beyond a predetermined limit.

2,159,663
GRAIN SCREEN FOR FEEDERS
Alexus C. Lindgren, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 2, 1936, Serial No. 108,719
2 Claims. (Cl. 130—27)



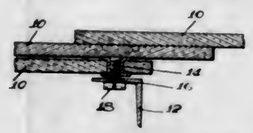
1. A feeder for the thresher cylinder of a harvester thresher having a body adapted to receive the loose crop material as it is cut, said feeder comprising a longitudinal feeder house structure inclined upwardly and rearwardly from the receiving end to the thresher housing at a point in close proximity to the thresher cylinder, a transverse shaft extending across the feeder house and carried by the thresher body and serving pivotally to carry the rear end of the feeder house on the thresher body, a second shaft disposed parallel to the first shaft and carried by the feeder house at its receiving end, said feeder house including a tight bottom extending below the shafts from the receiving end rearwardly toward the thresher housing, said bottom being provided at its upper end with a grate structure forming a continuation thereof, an imperforate endless apron conveyer trained about the aforesaid shafts and having its lower run dragging forwardly over the grate structure and tight bottom, and means disposed below the grate structure for receiving grain therefrom and directing it below the thresher cylinder, said grate preventing grain from being dragged forwardly over the bottom.

2,159,664
THRESHER
Alexus C. Lindgren, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 24, 1936, Serial No. 117,568
3 Claims. (Cl. 130—27)



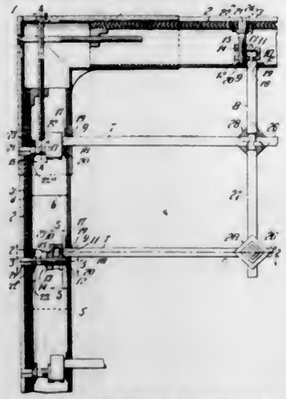
1. In a thresher concave having spaced arcuate side plates and a pair of angularly spaced grate bars cross-connected therebetween, a spacer connecting said bars substantially midway between their ends, the combination with said bars of insert members adapted to occupy the space between the plates, said members being substantially half the width of the concave and arranged end to end in said space with their outer ends respectively secured detachably to the side plates and their inner ends respectively resting on and being detachably secured to the spacer.

2,159,665
VITREOUS SHINGLE
William O. Lytle, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application November 30, 1936, Serial No. 113,422
4 Claims. (Cl. 108—10)



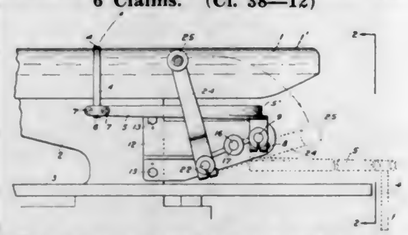
1. A building structure comprising spaced purlins, a sheathing comprising glass plates arranged in overlapping courses, said plates having opposite ends resting upon the purlins and securing devices for fastening the plates to the purlins, said securing devices having portions exposed and operable from the rear of the sheathing to permit the removal and replacement of any particular securing device without disturbing the adjacent devices, said plates being composed of glass, so tempered that when a surface of a plate is broken it will disintegrate into small rounded fragments that can be readily removed from between the overlapping plates to permit insertion of a new plate.

2,159,666
KNOCK-DOWN CLOSURE STRUCTURE FOR WINDOWS AND DOORS
Rudolph W. Lotz, Chicago, Ill., assignor, by direct and mesne assignments, to Gibson Patents Holding Corporation, a corporation of Illinois
Application April 1, 1937, Serial No. 134,197
16 Claims. (Cl. 189—79)



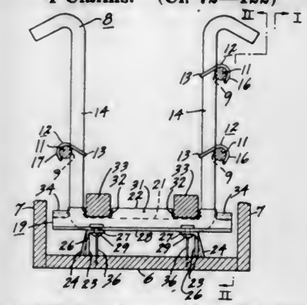
1. A knockdown skeleton structure comprising in combination, a coupling member equipped with intersecting bores, a pair of rods each having a cutaway end portion disposed to extend into one of said bore from opposite ends of the latter with said cutaway end portions disposed in overlapped relation to each other and each thereof extending beyond the intersection of said last-named with said other bore, each of said cut-away end portions of said rods equipped with a recess opposed to the other of said bores, and a pair of companion rods engaged in said last-named bore and engaged at their inner ends in said recesses of said first-named rods whereby to prevent withdrawal of said first-named rods from said coupling members.

2,159,667
LAUNDRY PRESS GARMENT CLAMP
Stanley Marvin, San Francisco, Calif., assignor to B. E. Witkin, Oakland, Calif.
Application August 23, 1937, Serial No. 160,491
6 Claims. (Cl. 38—12)



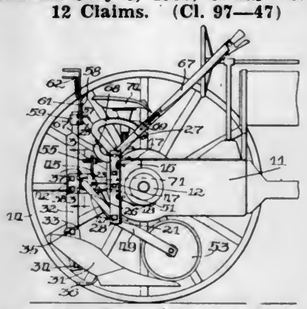
1. In a laundry press having a lower buck over which a garment is adapted to be spread for pressing, a clamping band arranged to extend transversely across the buck for clamping the garment on the buck, a pair of arms extending adjacent the sides of the buck and to which arms the ends of the band are secured, means pivotally mounting said arms for swinging the band upwardly from clamping position and rearwardly clear beyond the end of the buck, a manually operated lever arranged for swinging said arms, speed multiplying gear means operatively connecting said lever and said arms for increasing the motion of the arms relative to the lever, the connection between the gear means and said lever including a crank arm for turning the gear means and a connection from the crank arm to said lever arranged to bring increasing pressure on said crank arm and band as the band is swung to clamping position.

2,159,668
STIRRUP ASSEMBLY
William E. Mathews, Birmingham, Ala.
Application May 9, 1938, Serial No. 206,712
4 Claims. (Cl. 72—122)



4. In a reinforcement assembly for concrete beams, the combination with reinforcing bars and a plurality of stirrups connected to each other, of a chair having a body portion formed angle-shaped in transverse section, legs provided on said body portion to support the stirrups and the reinforcing bars and formed angle-shaped in transverse section, rivets for pivotally connecting said legs on said body portion, means formed on the body portion of the chair for positioning the stirrups, and means provided on the body portion of the chair for positioning the reinforcing bars.

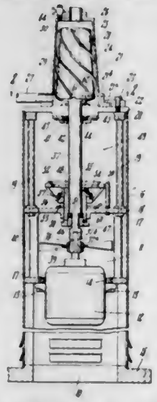
2,159,669
GROUND-WORKING IMPLEMENT
James Morkoski, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 3, 1937, Serial No. 151,814
12 Claims. (Cl. 97—47)



1. In a ground working machine, a frame structure, an implement, means for connecting the implement to the frame structure comprising two interconnected elements, one element being attached to the implement and the other element being attached to the frame structure, the interconnecting elements being so fashioned as to permit limited transverse tilt with respect to each other in one direction and rotation with

respect to each other in another direction, means for adjusting the tilt of the implement with respect to the frame structure and between the two elements, and means for vertically adjusting the implement in parallel relationship to the frame structure through relative rotation of the elements.

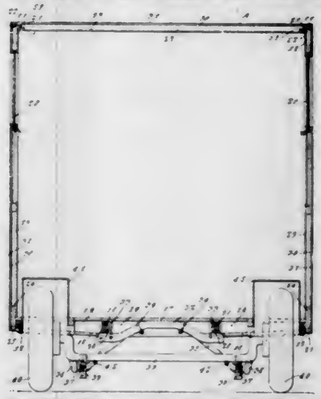
2,159,670
MACHINE FOR MIXING, HOMOGENIZING AND DISPERSING PURPOSES
Oscar F. Neitzke, Belmont, Mass., assignor to Bennett Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application April 29, 1937, Serial No. 139,740
6 Claims. (Cl. 99—266)



1. A machine of the class described comprising an upstanding shell whose internal wall is substantially smooth and constitutes a surface of revolution, a rotor which is arranged axially within said shell and carries spaced ribs on its periphery extending substantially from its upper end to its lower end and clearing slightly the internal shell wall, said internal shell wall and rotor periphery defining a plurality of compartments between said ribs and the leading rib faces merging smoothly and in the substantial absence of pockets with the rotor periphery, means for rotating said rotor in a direction to constitute said rib faces the leading ones, means for delivering material to be treated into the upper end of the shell, and means for withdrawing treated material from the lower end of said shell.

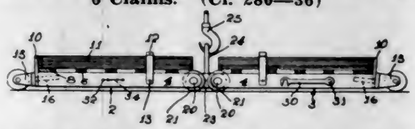
2,159,671
TRAILER CONSTRUCTION
James E. Owen, Asheville, N. C.
Application September 19, 1936, Serial No. 101,657
1 Claim. (Cl. 296—28)

A vehicle of the kind described comprising a foundation including outer and intermediate sills each made from laminated wood throughout its extent, the outer sills for a major length thereof being parallel with each other, the intermediate sills being in convergent relation to each other in one direction, inwardly directed ends formed from the outer sills and approaching the intermediate sills at their ends next thereto, cross ribs arranged in spaced parallel relation to each other crosswise of the foundation between said sills, joint blocks of triangular shape in cross section disposed at opposite sides of the cross ribs and coextensive with the width thereof and permanently fastened to the sills, bottom planking above the sills and cross ribs and made fast thereto, wheel fenders built in the foundation and rising above the bottom planking and opening downwardly through said foundation, and strippings



carried by the intermediate sills and providing seats below the uppermost edges thereof, the said cross ribs being engaged with said seats for disposition of the uppermost edges thereof flush with the upper edges of the intermediate sills.

2,159,672
GLASS RACK
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application October 22, 1937, Serial No. 170,423
6 Claims. (Cl. 280—36)

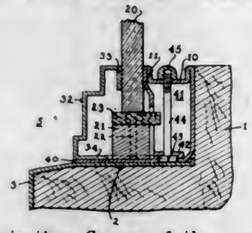


1. A rack for supporting a plurality of glass plates comprising two frame members pivotally connected at one end to permit joint movement of the frame members from a horizontal, abutting position to an inclined, downwardly diverging position releasable locking means for positively securing the members in inclined position and means for retaining plates of glass upon the members when they are inclined.

2,159,673
STORE FRONT CONSTRUCTION
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application November 18, 1937, Serial No. 175,205
6 Claims. (Cl. 20—56.4)

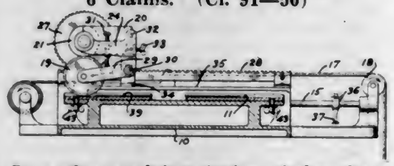
1. In combination in a store front construction, a metal sash bar including a back strip, a base strip extending at right angles thereto, a flange also extending at right angles to the back strip in spaced relation to the base strip, and a locking plate extending downwardly from the flange in spaced parallel relation to the back strip, a glass plate supported in spaced relation from the sash bar and contacting the flange thereof and a metal cover plate provided with an inwardly projecting flange, contacting the outer surface of the glass plate and slidingly engaging the base strip of the sash bar, the plate

dependent upon and extending downwardly from the flange of the sash bar contacting the in-



wardly projecting flange of the cover plate to clamp it securely to the base strip.

2,159,674
GLUE APPLYING MACHINE
Elmer A. Petersen, Fruitvale, Calif.
Application September 27, 1937, Serial No. 165,785
6 Claims. (Cl. 91—50)



1. In a glue applying device of the character described, the combination of a supporting platen upon which a glue receiving article may be placed, a carriage movable over said platen, a glue containing reservoir upon said carriage, a glue applying roller surface beneath said reservoir adapted to receive glue therefrom as said carriage is moved with respect to the glue receiving article, and a second roller surface out of glue receiving relation with said reservoir adapted to frictionally engage the glue receiving article and be driven thereby to impart rotation to said glue applying roller surface as it passes over the article.

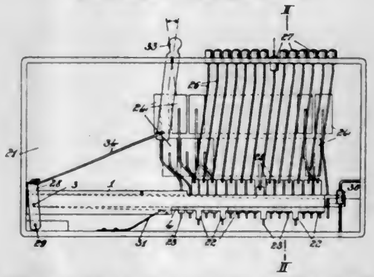
2,159,675
PAPER FOR NITRATION
George A. Richter, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine
No Drawing. Application June 11, 1936, Serial No. 84,707. Renewed October 10, 1938
4 Claims. (Cl. 260—222)

1. A waterleaf nitration paper comprising substantially unbeaten, bleached, sulphite hardwood pulp having an alpha cellulose content not greater than about 90% and ether-soluble constituents amounting to not more than 0.3%, said paper being uniformly textured and readily penetrated throughout by nitrating acid and having a compactness of at least 60 and a thickness not exceeding 0.01 inch.

2,159,676
PROCESS OF PRODUCING VISCOSE
George A. Richter and Harold P. Vannah, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a corporation of Maine
No Drawing. Application July 20, 1937, Serial No. 154,553
2 Claims. (Cl. 260—217)

1. In a process of producing viscose for which is available a fluent aqueous suspension of chemically preliberated wood pulp maintained wet from the time of its preliberation, those steps which comprise thickening such pulp suspension to much higher fiber content while maintaining the pulp thoroughly wet, admixing concentrated caustic soda solution with the thickened wet pulp in volume to provide a fluent pulp suspension in caustic soda solution of a strength ranging from about 6% to 15%, and admixing liquid carbon bisulphide with the resulting fluent suspension of pulp in said caustic soda solution to form viscose.

2,159,677
CHORD ENGAGING DEVICE FOR MUSICAL INSTRUMENTS
Theodor Schmidt, Berlin, Germany, assignor to Maria Schmidt, geb. Salm, Berlin, Germany
Application September 3, 1936, Serial No. 99,197
In Germany September 6, 1935
3 Claims. (Cl. 84—376)



1. In a musical instrument of the reed tone type having flap openers, a frame carrying a set of parallel pivotally mounted operating rods arranged on a common pivot, each rod extending across the entire set of flap openers and being provided with projections to engage certain of said flap openers corresponding to a chord, and a key to selectively actuate each rod.

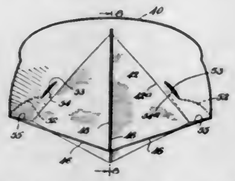
2,159,678
PREPARATION OF AN ENZYMIC MATERIAL
Alfred Schultz and Lawrence Atkin, New York, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application July 7, 1936, Serial No. 89,480
7 Claims. (Cl. 195—66)

6. A process for the preparation of a starch liquefying enzymic material which comprises preparing a nutrient medium by sulfuric acid digestion of soy bean meal under a steam pressure of about 20 lbs. per sq. inch for about 4 hours, neutralizing while hot to neutral reaction with litmus, filtering while still hot, sterilizing, adjusting the pH value to about 5.85, inoculating shallow layers of the thus prepared medium having a Balling of about 10.4° and a depth of about 0.5 cm. with a bacterial culture of *Bacillus mesentericus* in an amount of about 5% of the final volume, incubating at a temperature of about 30° C. in the presence of oxygen for a period of about 72 hours, and separating bacteria and liquid, said liquid containing the starch liquefying enzymes.

2,159,679
FLEXED-BACK MERCHANDISE DISPLAY
Nicholas Snelling, Jackson Heights, Long Island, N. Y.
Application December 7, 1936, Serial No. 114,617
3 Claims. (Cl. 211—72)

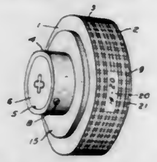
3. A display basket of the class described comprising overlapped substantially triangular bot-

tom wall parts, a single back wall and display section integral and foldable with respect to the rear edge of each of the bottom wall parts, whereby the side portions of said section are flexed forwardly in overlapping said parts to form a continuously curved section extending upright with respect to the bottom wall parts to form the rear portion of a basket, other front wall members



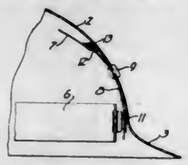
integrally joined with other edges of said parts and foldable with respect thereto to form the front walls of the basket, and means at the sides of the front wall members for coupling the same with the side portions of said section, and means extending rearwardly over the front wall members and coupled with said section forming a partition sub-dividing the basket into separate compartments.

2,159,680
DIE AND TAP WRENCH
Charles W. West, Burlingame, Calif.
Application April 25, 1938, Serial No. 204,065
2 Claims. (Cl. 10—123)



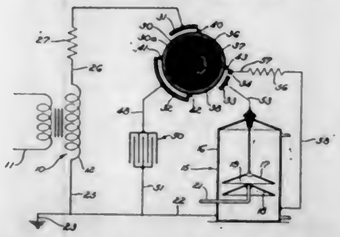
1. A threading die holder comprising a hand wheel provided with a hub on one side formed to receive the die and provided with means for securing the same in place, the opposite side of said hand wheel formed with a recess adapted to nest over the hubbed side of the hand wheel when a plurality of the devices are stacked.

2,159,681
HAT
Lauren Otho Wisman, Walnut Creek, Calif., assignor to E. D. Bullard Company, San Francisco, Calif., a corporation of California
Original application March 9, 1937, Serial No. 129,853. Divided and this application September 27, 1937, Serial No. 165,841
3 Claims. (Cl. 2—3)



1. A hat comprising a crown, a sweat band, a supporting tab for the band pivotally connected to the crown at a point above said band, and a head strap fastened to the tab above the pivot connection.

2,159,682
METHOD AND APPARATUS FOR TREATING EMULSIONS
Halley Wolfe, Long Beach, Calif., assignor to Petroleum Rectifying Company of California, Los Angeles, Calif., a corporation of California
Application November 25, 1936, Serial No. 112,830
12 Claims. (Cl. 204—24)



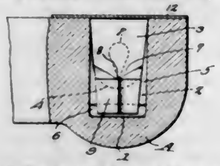
1. A process for electrically treating emulsions by use of a condenser and a pair of electrodes bounding an emulsion-containing treating space, which process includes the steps of: first charging said condenser; partially discharging said condenser to said electrodes to coalesce the dispersed phase of said emulsion; establishing an auxiliary discharge circuit across said condenser to substantially completely discharge said condenser before again charging same thus completing a cycle; and then repeating this cycle of charging said condenser, partially discharging same to said electrodes and substantially completely discharging same through said auxiliary circuit.

10. In combination in a treating system for electrically treating a fluid in a treating space bounded by electrodes: a condenser; means for successively connecting said condenser to a source of potential to charge same and to said electrodes to partially discharge same to complete a cycle of operation; actuating means for actuating said first-named means to complete said cycle of operation repeatedly; and discharge means controlled by said actuating means to operate in step with the charging and partial discharging of said condenser for further and substantially completely discharging said partially-discharged condenser during each cycle of operation before the condenser is re-connected to said source in the succeeding cycle of operation.

2,159,683
PROCESS FOR THE PRODUCTION OF PHOTOGRAPHIC PICTURES IN NATURAL COLORS IN ACCORDANCE WITH THE THREE-COLOR PRINCIPLE
Marcelle Beauvais, Saint-Maurice, France, assignor to Siméon Papadakis, Saint-Maurice (Seine) France
No Drawing. Application September 1, 1936, Serial No. 98,979. In France September 7, 1935
2 Claims. (Cl. 95—2)

1. The process for the production of a natural color photograph which consists in first taking, in a known manner, three negatives of the object through three differently colored light filters, coating a carrier with photographic emulsion on one side only, printing out one of the said negatives directly on to the said carrier, dyemordanting the resulting image by a basic mordanting dyestuff, preparing positive copies of the other two of the said negatives on temporary transparent carriers, re-sensitizing the image on the main carrier by bichromates, exposing the thus sensitized layer through one of the said positives, dyeing the resulting second image with a dye selected from the group consisting of Pinatype red, and Hoechst "Red R", re-sensitizing the image thus obtained by bichromates, exposing this sensitized layer through the other of the said positives, and finally dyeing the resulting third image yellow with Hoechst "Yellow F".

2,159,684
BEARING FOR WEIGHING SCALES
Albert E. Bennett, Jacksonville, Fla.
Application September 25, 1936, Serial No. 102,604
1 Claim. (Cl. 308—2)



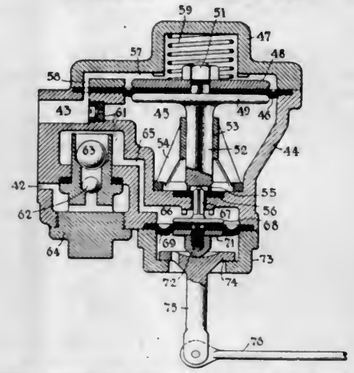
In a bearing for weighing scales the combination with a beam having a recess open at the top and sides and a pocket in the bottom of the recess having downwardly converging side walls and a bearing rib extending from one side to the other of the pocket and having a rounded top, of a block removably seated in the recess and having opposed portions extending beyond the open sides of the recess, each side of the block having outwardly converging faces inclined upwardly and inwardly and outwardly converging faces inclined downwardly and inwardly, all of said faces converging to a point or nose at each side of the block constituting a side thrust bearing, there being a groove of uniform depth within the bottom of the block and providing an elongated seat for the rib in the pocket, said groove gradually increasing in width from its center to each end and the width thereof at the center being substantially equal to the width of the engaged rib, and a movable member positioned to transmit thrust to one of the noses and a knife edge extending from said member engaging the top surface of the block, said surface having a longitudinal angular groove connecting the noses.

2,159,685
CONCRETE RIPRAP
Dow Alan Buzzell, Hastings, Nebr.
Application March 22, 1939, Serial No. 263,568
3 Claims. (Cl. 61—37)



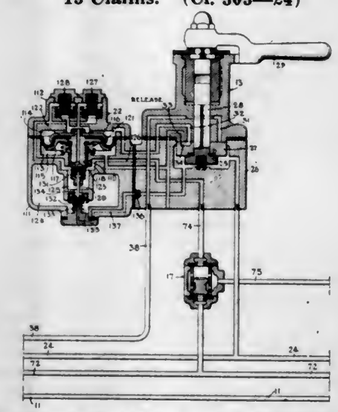
1. A riprap unit comprising an elongated body of precast material having a plurality of longitudinal openings therein, an integral lip extending longitudinally of the entire length of the body and projecting forwardly from one face of the body at the top thereof and of rounded contour in cross section, and a plurality of spacers formed integral with the body below the lip and disposed to extend from the lip to the bottom walls of said openings at the ends of said openings.

2,159,686
AIR BRAKE
Charles A. Campbell, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application May 24, 1938, Serial No. 209,794
8 Claims. (Cl. 303—64)



1. The combination of a brake pipe; a reservoir; a brake controlling valve device arranged to control charging flow from the brake pipe to the reservoir; a charging valve biased in a closing direction and controlling a by-pass from the brake pipe directly to the reservoir; operator-operated means for opening said valve; and pressure controlled means rendered effective by the opening of said valve to inhibit closure of said valve while reservoir pressure is substantially below brake pipe pressure and cause closure upon approach to equalization of such pressures.

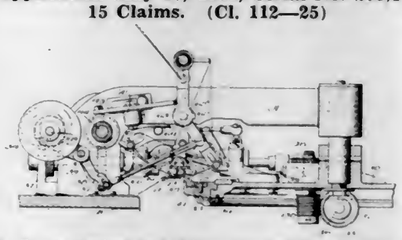
2,159,687
AIR BRAKE
Charles A. Campbell, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application August 2, 1938, Serial No. 222,690
13 Claims. (Cl. 303—24)



1. In a train brake system, the combination of a brake controlling relay mechanism including a control chamber, so arranged that pressures established therein operate the relay to effect a related control of braking; a source of pressure fluid; an engineer's brake valve having a release position in which it serves to vent said control

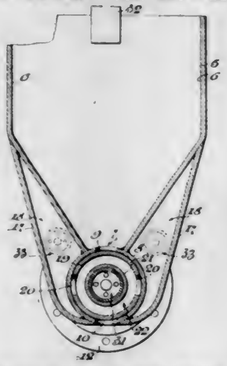
chamber, and a slow application position in which it supplies pressure fluid from said source to said chamber at a restricted rate; and means rendered effective by motion of the engineer's brake valve from release to slow application position to raise control chamber pressure rapidly through a limited range.

2,159,688
SEWING MECHANISM
Thomas H. De Spain, Paducah, Ky., assignor to Southern Textile Machinery Company, Paducah, Ky., a corporation of Kentucky
Application May 17, 1938, Serial No. 208,465
15 Claims. (Cl. 112—25)



1. In a sewing machine comprising a series of spaced work-supporting points, the combination of a pair of sewing needles movable through work on said points from opposite sides of the work, a reciprocatory rod, and means on said rod movable transversely of said needles and engageable with threads carried by the needles to form a loop in said threads and position each loop formed in the thread of one needle in the path of the other needle.

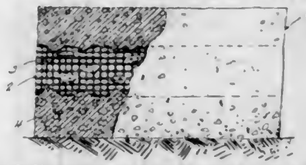
2,159,689
WEIGH BUCKET
William E. Farrell, Bethlehem, Pa.
Application January 22, 1938, Serial No. 186,424
8 Claims. (Cl. 219—44)



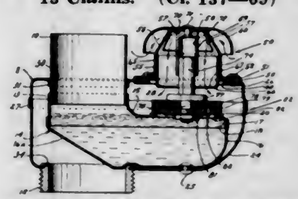
1. A hot bitumen dispensing weigh bucket comprising a hopper body having a discharge throat, a rotary valve for controlling flow of bitumen from said throat, and an electrical heating unit mounted directly in and movable with the valve and removable and replaceable without dismounting the valve or removal of bitumen from the hopper body.

2,159,690
METHOD OF MAKING IRRIGATING TILE
Walter R. Fleming, Tulsa, Okla.
Application August 17, 1934, Serial No. 740,305
1 Claim. (Cl. 25—155)

The method of making and simultaneously laying a conduit for irrigation purposes which consists in digging a trench in the soil to be irrigated, spreading a layer of porous cement mixture in the bottom of the trench, placing a reticulated tubular former upon the porous cement layer in the bottom of the trench, placing a quantity of porous cement mixture upon the reticulated tubular former and the said layer of porous cement mixture in the bottom of the trench sufficient to fully surround and enclose the said tubular former, and then filling the trench with soil whereby when the cement hardens the layer of porous cement in the bottom of the trench the reticulated former thereon and the porous cement mixture surrounding and enclosing the reticulated former become united into a single conduit and the entire irrigation line is formed of a single unitary structure to convey the necessary water for irrigation purposes.



2,159,691
SIPHONAGE PREVENTER FOR PLUMBING SYSTEMS
Robert R. Fox, Los Angeles, Calif.
Application August 28, 1937, Serial No. 161,450
13 Claims. (Cl. 137—69)

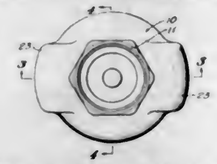


1. In a device of the character described, the combination of a hollow body having a water inlet opening in a top wall thereof and an outlet opening in its lower portion, a water trap spaced within said body and communicating with said inlet, said water trap having an upwardly opening water outlet discharging to the space within said body, an upwardly facing valve seat around said opening, an air inlet passageway in said body terminating in a downwardly opening port located above said trap outlet opening, a downwardly facing valve seat around said port, and a check valve member movable between said seats so as to close either the trap outlet opening or the air inlet passageway, said check valve being adapted to be moved onto its upper seat by virtue of flow of water upwardly from said trap outlet with flushing discharge through the device, and being adapted to seat on its lower seat to form a substantially air tight barrier in the trap outlet opening when suction is applied to the water inlet opening.

2,159,692
SIPHONAGE PREVENTER FOR PLUMBING SYSTEMS
Robert R. Fox, Los Angeles, Calif.
Application September 22, 1937, Serial No. 165,140
10 Claims. (Cl. 137—69)

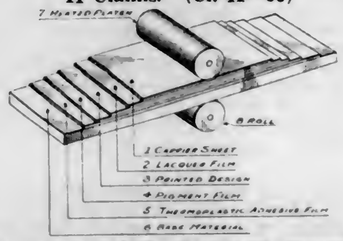
1. In a device of the character described, the combination of a body formed in its top with a

liquid inlet, a liquid passageway within said body extending laterally outwardly and downwardly from said inlet, and then formed with a reverse bend comprising a portion extending back inwardly and then upwardly, in alinement with said inlet, and terminating in an upwardly directed discharge port adapted to discharge a solid column of water, said discharge port being located in vertical alinement with said inlet, an upwardly facing valve seat around said discharge port, a liquid outlet opening from the body, a



liquid passage within the body leading from said liquid discharge port to said liquid outlet, an air inlet passageway in said body terminating in a downwardly discharging port located immediately above said liquid discharge port, a downwardly facing valve seat around said air port, and a check valve mounted for movement between said valve seats to close either the liquid port or the air inlet passage, said check valve being adapted to be moved onto its upper seat by virtue of flow of water upwardly from said liquid port with flushing discharge through the device.

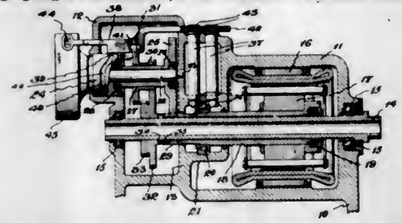
2,159,693
TRANSFER
William Standish Gaylord, Jr., Summit, N. J.
Application December 20, 1937, Serial No. 180,885
11 Claims. (Cl. 41—33)



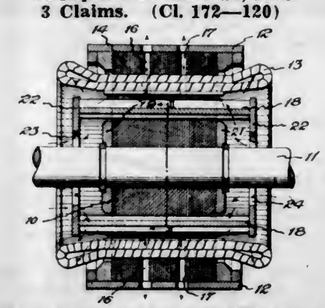
1. A transfer of the heat and pressure type comprising an impervious backer sheet, a thermoplastic lacquer film on said backer sheet, a printed design on the side of the lacquer film which is opposite the backer sheet, a background film of pigment covering the printed design, and a film of thermoplastic adhesive overlying the film of pigment.

2,159,694
DRIVING GEAR
William R. Gorham, Shibuya-ku, Tokyo, Japan
Application May 12, 1937, Serial No. 142,269
In Japan February 6, 1937
11 Claims. (Cl. 74—333)

1. In a driving gear, a spindle, a driving motor arranged coaxially about said spindle and including a rotor, a hollow shaft receiving said spindle, a clutch device for directly coupling the hollow shaft with the spindle, a change speed mechanism for coupling the hollow shaft with the spindle and including movable gear wheels for varying the speed ratios of the hollow shaft and spindle, means common to the gear wheels and the clutch device for adjusting the change speed mechanism for different driving speeds and for engaging said clutch, said common means including a single manipulating member, said manipulating member being rotatable.



2,159,695
INDUCTION MOTOR ROTOR
William R. Gorham, Shibuya-ku, Tokyo, Japan
Application October 4, 1937, Serial No. 167,298
In Japan November 21, 1936
3 Claims. (Cl. 172—120)

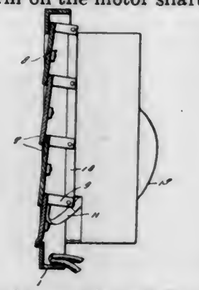


1. In a motor, a stator, a shaft having a rotor mounted thereon for supporting the rotor within said stator, a plurality of bars having elongated cross-sections wherein the base of the bars is of a given width and the top is of less width, the side faces of the bars being curved and converging towards each other at the top, said bars being arranged on said rotor with the major axis of each bar angularly displaced with respect to the radii of said rotor, said bar extending beyond one end of said rotor, an electrical connection for said bars comprising a ring attached to the ends of said bars to provide an annular opening around said shaft through which air is drawn by the extensions of said bars acting as a fan when said rotor is gyrated in a direction opposite to said angular displacement of said bars.

2,159,696
ELECTRIC VENTILATOR
Walter R. Gross, Grosse Pointe, Mich.
Application June 1, 1937, Serial No. 145,874
1 Claim. (Cl. 98—88)

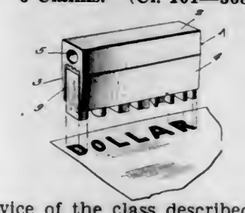
A ventilator of the class described comprising an elonagted frame, a plurality of shutters having pintles at their ends journaled in the ends of the frame, one end of each shutter being cut adjacent one side edge thereof and the portion between the cut and said side edge being bent at right angles, a bar pivotally connected to said bent portions for causing the shutters to move in unison, a motor housing supported at one end of the frame, a worm wheel rotatably supported in the housing, a pitman eccentrically connected with the wheel, a bent strap pivoted to the pitman and connected with one of the shutters, the motor housing having an opening therein

through which the strap passes, a motor in the housing, a worm on the motor shaft engaging the



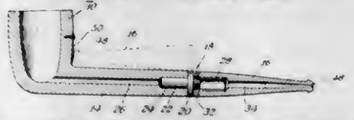
worm wheel and a remote switch controlling the circuit of the motor.

2,159,697
MARKING STAMP
Donovan H. Hardy, United States Navy, San Diego, Calif.
Application November 29, 1937, Serial No. 177,101
6 Claims. (Cl. 101—368)



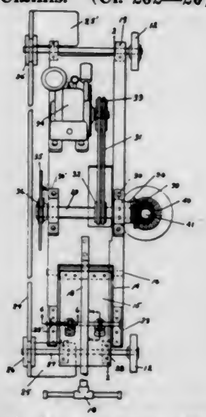
1. A device of the class described including a handle having side walls, and marking elements embedded in the handle and each formed of a solidified inking substance adapted to be moistened on its working surface for making an impression upon an article to be marked, said side walls being capable of being broken away for exposing additional portions of the elements as said elements are worn by use.

2,159,698
STEM
Julius Harris and Edward Harris, Chicago, Ill.
Application January 8, 1937, Serial No. 119,692
4 Claims. (Cl. 131—192)



2. A smoking pipe comprising a bowl having a stem, a mouthpiece hingedly connected with the stem, means housed within the contour of the stem and the mouthpiece for holding the two in operative relation when the mouthpiece is moved to a position in axial alignment with the stem, said mouthpiece being foldable back upon the stem, means cooperable on the bowl and the free end of the mouthpiece for frictionally holding the mouthpiece in folded relation with the stem, said second means comprising a resilient element attached to the bowl, to have pressure relation with the free end of the mouthpiece, the hinge connection between the mouthpiece and the stem being of such construction and located at such a distance from said means as to cause the mouthpiece to be held in frictional relation with said means.

2,159,699
CONCRETE CUTTING DEVICE
George W. Hirth, Milwaukee, Wis.
Application March 18, 1939, Serial No. 262,794
8 Claims. (Cl. 262—20)



1. A device of the character described comprising in combination a body, an auxiliary plate hingedly supported to said body, a pair of wheels rotatably mounted to said body, a pair of wheels rotatably mounted to said auxiliary plate, a handle attached to said body to permit movement of the device on said wheels, resilient members on said body to pivotally support said auxiliary plate, an actuating means mounted onto said body, a drive shaft, said drive shaft journaled in bearings mounted to said body in a position between the wheels on said body and the hinged support of said auxiliary plate, means for rotating said driven shaft from said actuating means when said actuating means is in operation and a cutting disc mounted to the one end of said driven shaft, said disc employed for cutting concrete or the like when it is brought in contact with said concrete by pressure applied against the resilient members.

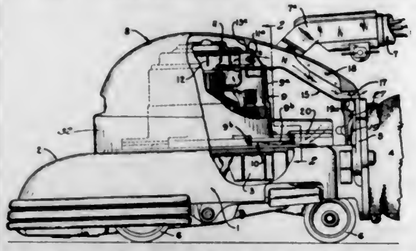
2,159,700
PROCESS FOR THE MANUFACTURE OF UNSATURATED FATTY ACIDS
Karl Hennig, Rosslau in Anhalt, Germany, assignor to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany, a corporation of Germany
No Drawing. Application December 13, 1935, Serial No. 54,298. In Germany December 15, 1934
7 Claims. (Cl. 260—413)

6. The process for the manufacture of unsaturated fatty acids which comprises reacting material of the group consisting of unsaturated fatty alcohols and esters of unsaturated fatty alcohols with alkali of the group consisting of alkali metal and alkaline earth metal hydroxides in a slight excess at a temperature above 200° C. and under superatmospheric pressure until the same is converted to alkali salts of unsaturated fatty acids.

2,159,701
SUCTION CLEANER
William H. Kitto, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 18, 1937, Serial No. 126,392
7 Claims. (Cl. 230—117)

1. In a suction cleaner, the combination with

a main casing including suction-creating means, of a motor supported upon said casing and operatively connected with said suction-creating means, said motor being provided with ventilating means including air inlet and outlet openings



at opposite ends thereof, and a hood enclosing said motor provided with a passageway formed by integral wall segments and having an opening at one end adapted to register with the outlet opening of said motor and communicating at its other end with an opening through said hood.

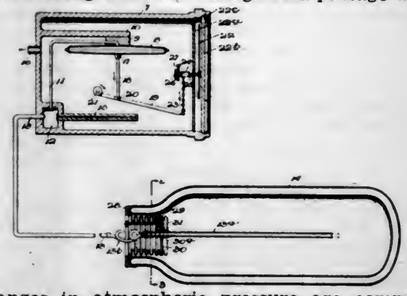
2,159,702
COMBINED INDICATOR AND ELECTRICAL CIRCUIT CONTROLLER
Maximilian Klein and Bernhard Willach, Sellersville, Pa., assignors to United States Gauge Company, Sellersville, Pa., a corporation of Pennsylvania
Application October 3, 1935, Serial No. 43,432
8 Claims. (Cl. 200—56)



1. A combined indicator and circuit controller comprising a casing having a cylindrical wall, a Bourdon spring within said casing in spaced relation to said wall, a contact fixed to the end of said spring, an indicator mechanism within said spring operatively connecting said spring and indicator, contact elements secured within said casing and designed to be engaged by the contact on said spring upon movement of said Bourdon spring, said elements being disposed outside of said Bourdon spring and in the space between said Bourdon spring and said wall.

2,159,703
RATE OF CLIMB INDICATOR
Paul W. Koch, Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 4, 1937, Serial No. 119,045
10 Claims. (Cl. 264—1)

1. In an instrument of the class described having a pressure chamber, a reservoir connected to said chamber, means providing a restricted passage between the inside and outside of said chamber, and means responsive to changes in altitude atmospheric pressure for regulating the effective volume of said reservoir whereby errors due to changes in flow through said passage with



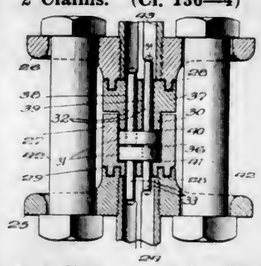
changes in atmospheric pressure are compensated.

2,159,704
CIGARETTE AND METHOD OF MAKING THE SAME
Harold Alvin Levey, New Orleans, La.
Application May 4, 1937, Serial No. 140,716
11 Claims. (Cl. 131—39)



2. The method of waterproofing cigarette paper comprising extruding on said paper prior to the forming of the paper into a cigarette a relatively viscous plastic film of a size at least sufficient to form a tip film on the finished cigarette, said viscous plastic film containing a volatile solvent, the quantity thereof being only sufficient to enable the extruded plastic film to bond itself to the paper while substantially minimizing the penetration of the solvent into the pores of the paper.

2,159,705
SEALING MEANS FOR THERMOCOUPLES
William K. McCoy, Pittsburgh, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 3, 1937, Serial No. 146,291
2 Claims. (Cl. 136—4)



1. Pressure sealing means for thermocouples comprising, in combination with a thermocouple well and thermocouple in the well, a capping member in pressure-tight communication with the well, two metal plates in the capping member in stacked arrangement of a plane perpendicular to the well axis, means so constructed and arranged as to insulate the plates electrically from each other and from the capping member, each plate having two metal posts one projecting outward from each side thereof, each plate having a portion thereof cut away so that one post of each plate projects through the cut-away por-

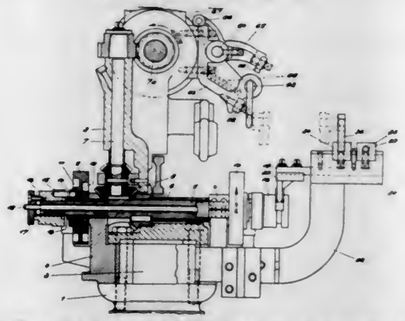
tion of the opposite plate beyond the opposite plate out of electrical contact with the opposite plate, closure means for the capping member orificed to receive two adjacent posts and out of electrical contact with the posts, means for clamping the closure means, plates and capping member together, electrical connections to said two posts and electrical connections from the other two adjacent posts to the thermocouple.

2,159,706

LASTING MACHINE

Heinrich Müller and Ernst Sauer, Frankfort-on-the-Main, Germany, assignors to the firm: Maschinenfabrik Moenus Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application March 2, 1938, Serial No. 193,573
In Germany March 4, 1937
20 Claims. (Cl. 12—2)



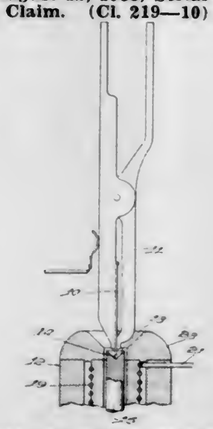
1. In a lasting machine having a gripper and slitting knives at the rear of the gripper one at each side of it, means for operating the knives comprising a driving member at right angles to the main shaft of the machine, control members arranged upon said driving member, a clutch to connect said control members one at a time to said driving member, and means arranged on the two sides of the machine standard for transmitting motion from said control members to the knives.

2,159,707

TIP WELDING METHOD

Carl Pfanstiehl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois

Application August 12, 1938, Serial No. 224,571
1 Claim. (Cl. 219—10)



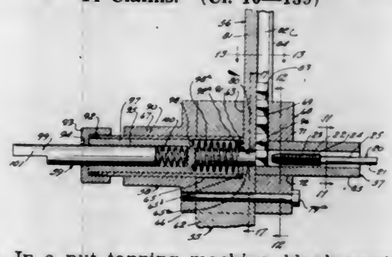
In the process of welding of minute tips of high melting point metal to a gold base element, in which tips are positioned on a conductive support of high melting point, and at least one of the tip and base is provided with a coating of high melting point flux; the steps of bringing tip and base into lightly pressed contact while the tip is on the conductive support, preheating the support to a temperature sufficient to maintain the flux in fluid condition, but below the melting point of the tip, base and support, and then briefly passing an electric welding current from the base through the tip to the support to raise the temperature at the junction of the tip and base to melt at least a portion of one element, and freezing the melted metal to join said elements.

2,159,708

SINGLE SPINDLE NUT TAPPING MACHINE

Harvey E. Pruitt, Flint, Mich., assignor to Palmer-Edwards Company, Flint, Mich., a corporation of Michigan

Application March 9, 1938, Serial No. 194,947
14 Claims. (Cl. 10—139)



1. In a nut tapping machine, blank receiving means, upstanding means arranged over and for successively positioning blanks into the inner end of said receiving means, a rotatable tapping tool extended into said receiving means, a spring controlled intermittently operated reciprocating driven plunger for successively pushing the blanks positioned in said receiving means upon said tool to be acted upon by the latter, a spring controlled intermittently operated reciprocatory driving plunger for operating said driven plunger in a direction to push the blanks onto the tool, means for intermittently operating said driving plunger, a guide means for and in which is arranged said driven plunger, said driving plunger permanently extended into said driven plunger, the controlling spring for the driven plunger being arranged in said guide means, the controlling spring for the driving plunger being arranged in said driven plunger, and supporting means common to said guide means, blank receiving means and positioning means.

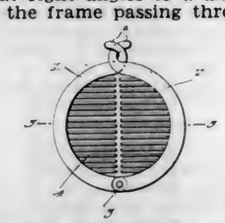
2,159,709

CLASP

Georgina A. Quetin, San Jose, Calif.

Application November 22, 1938, Serial No. 241,851
1 Claim. (Cl. 132—21)

A clasp for use in the hair comprising a pair of semi-circular clasp jaws pivotally connected together at one end for relative swinging movement toward and from each other into closing and opening positions, respectively, and forming in the closing position thereof an annular frame and a series of pin-like prongs extending from the inner edge of each jaw in laterally spaced parallel relation, the prongs in said series aligning in end to end equidistantly spaced relation in the closing position of the jaws and occupying a common plane, the free ends of the jaws being bent to form hooks interlocking with a snap action in the closed position of the jaws, said prongs in the closing position of the jaws extending at right angles to a diametrical center line of the frame passing through said pivotal connection and the free ends of the jaws, and said series of prongs in the closing position of the jaws completely filling the frame.

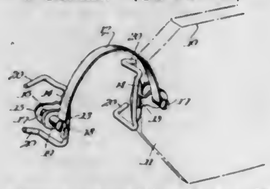


2,159,710

SUNGLASS ATTACHMENT FOR EYEGLASSES

Ellsworth Reichert, Baltimore County, Md., assignor, by mesne assignments, to Liberty Optical Company, Inc., Baltimore, Md., a corporation of Maryland

Application March 24, 1936, Serial No. 70,687
5 Claims. (Cl. 88—41)



2. Cover glasses comprising lenses, lens clamps each having a bow-spring post extending from one side thereof in a plane transverse to the plane of the lenses, permanent glass engaging means extending from the opposite side of each clamp, and a bow-spring having its ends connected with said posts and freely rotatable thereon whereby the lenses may readily adjust themselves to the permanent glasses without restraint from the bow-spring.

2,159,711

MIXING DEVICE

Nathan Rudnick, New Haven, Conn., assignor of one-half to Morris Frankel, New Haven, Conn.

Application May 15, 1937, Serial No. 142,936
2 Claims. (Cl. 261—75)



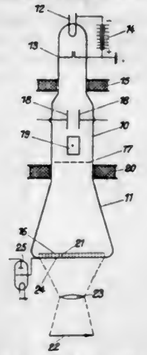
1. A remixing device of the class described comprising a conduit having a loop therein for separating the fluid passing therethrough into two parts, with the parts uniting again at the outlet end of the loop, the outlet end of the loop having a discharge opening therein, and a perforated tubular member connected with the outlet end of the loop and extending at right angles to the tube and having its ends open.

2,159,712

ELECTRON RAY TUBE

Ludwig Schiff, Berlin-Lichterfelde, Germany, assignor to the firm Fernseh A.-G., Berlin-Zehlendorf, Germany

Application April 20, 1934, Serial No. 721,578
In Germany August 8, 1931
9 Claims. (Cl. 178—7.2)



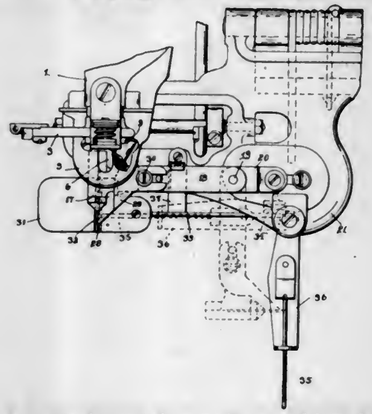
1. An electron ray tube for the purposes of television, picture telegraphy and the like comprising in combination an evacuated container, means for producing in said container in spaced planes a plurality of electron images one of which is an enlargement of another, said means comprising a cathode filament, an anode, an electric current supply means connected between said cathode filament and said anode, a first collecting coil between said anode and the first image plane of the tube, pairs of deflecting electrodes between said coil and the first image plane of said tube, and an adjustable second collecting coil between said first image plane and the second image plane of the tube.

2,159,713

SEWING MACHINE ATTACHMENT FOR FIXING A PERMANENT CREASE IN GARMENTS

David Segelin and Solomon Segelin, Rochester, N. Y.

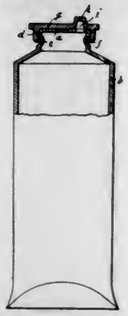
Application March 23, 1936, Serial No. 70,278
7 Claims. (Cl. 112—176)



3. An attachment for sewing machines having

a presser foot and a channeled work clamp cooperating with the bottom thereof, a fabric guide plate mounted in front of said presser foot, a channel in the surface of said fabric guide plate in line with the channel in said work clamp, a guide flange located above said channel in said fabric guide plate to force the fabric into said channel and form a crease therein in line with said channel in said work clamp.

2,159,714
TUBE
Leopold Serog, Bielsko, Poland
Application January 26, 1938, Serial No. 187,080
In Poland January 29, 1937
4 Claims. (Cl. 221—60)



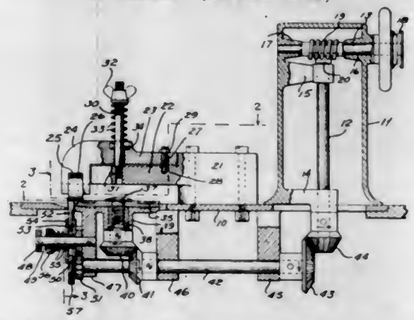
1. In a collapsible tube, a cylindrical-shaped neck portion extending from the tube, a cover fixed to the neck and having an opening therein eccentrically arranged with respect to the axis of the tube, the outer edge of the neck portion adjacent the cover being tapered and a portion of said edge projecting beyond the tapered surface, a rotatable cap positioned over the cover and having a destructible closed opening therein capable of alignment with the opening in the cover, a lug carried within the cap and adapted to move along the tapered edge of the neck portion when the cap is rotated, and said lug being so positioned that the two openings are aligned when the lug engages the edge which projects beyond the tapered surface of the neck portion.

2,159,715
CABLE CASING CUTTER
Ted I. Sherrill, Darby, Mont.
Application March 8, 1937, Serial No. 129,717
2 Claims. (Cl. 30—100)



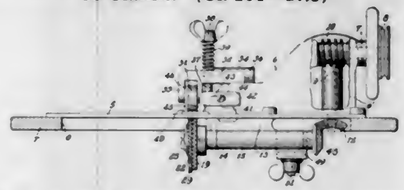
1. In a device of the character described, a pair of handles pivoted one to the other, each handle carrying a semi-circular portion, a plurality of linked segments secured to said semi-circular portions and lying within said semi-circular portions, and each link having a cutting knife secured thereto, the cutting edges of said knives forming a complete arc of a circle when in operative position.

2,159,716
PINKING MACHINE
Victor J. Sigoda, Brooklyn, N. Y., assignor to Man-Sew Pinking Attachment Corp., New York, N. Y., a corporation of New York
Application October 2, 1937, Serial No. 166,925
20 Claims. (Cl. 164—17.5)



1. A pinking machine comprising in combination with a support, pinking means, feeding means for the work including a pressure roller cooperating with the pinking means to pink the work and a member for driving said roller, both the roller and said driving member being yieldable.

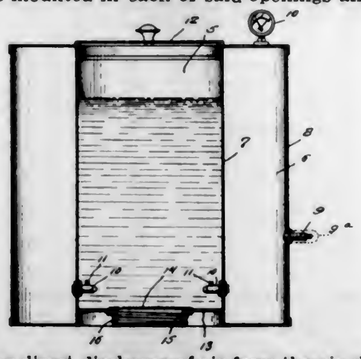
2,159,717
PINKING MACHINE
Victor J. Sigoda, New York, N. Y., assignor to Man-Sew Pinking Attachment Corp., New York, N. Y., a corporation of New York
Application April 30, 1938, Serial No. 205,166
18 Claims. (Cl. 164—17.5)



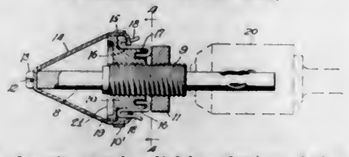
1. In a pinking machine, a unitary assembly comprising work feeding means and pinking means rotatable about a common axis, and means permitting relative non-deformable eccentric displacement of said feeding and pinking means with respect to said axis.

2,159,718
BAIT RECEPTACLE
Charles Bernard Spiner and Edward Pulaski, Houston, Tex.
Application June 24, 1938, Serial No. 215,672
3 Claims. (Cl. 43—56)

1. The combination with a receptacle having a wall dividing the receptacle into an air chamber and a water-receiving chamber, a valve having communication with said air chamber and adapted for connection with air supplying means, said wall having a plurality of openings therein adjacent and at spaced points about the bottom of the water-receiving chamber, an air discharge nozzle mounted in each of said openings and affording direct discharge of air from the air chamber into said water-receiving chamber, and valves carried by said nozzles and accessible from within the water-receiving chamber to regulate the discharge of air into the latter.



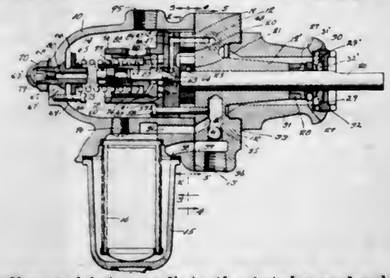
2,159,719
CLEANING AND POLISHING DEVICE
Leslie A. Tyler, Dunmore, Pa.
Application November 5, 1936, Serial No. 109,397
3 Claims. (Cl. 15—230)



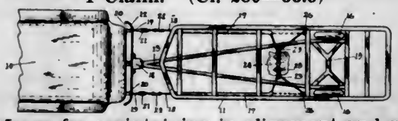
1. A cleaning and polishing device of the character described, comprising a shaft threaded intermediate its ends, one end face of said shaft having transverse slots for receiving a flexible cleaning and polishing element, a flanged nut mounted for rotation on the threaded portion of said shaft, means within said flanged nut for receiving the flexible cleaning and polishing element, said means comprising clip-like members carried by the periphery of said nut, and means carried by said shaft for locking said nut.

2,159,720
PUMP
Gunnar A. Wahlmark, Rockford, Ill.
Application February 27, 1936, Serial No. 66,009
12 Claims. (Cl. 103—126)

1. A rotary pump comprising, in combination, a casing providing an auxiliary reservoir, means within the casing forming a pump chamber, rotary pumping elements housed in the chamber comprising a rotor and a roller disposed eccentrically within the rotor and meshing therewith over a portion of its circumference only, a crescent-shaped member interposed between said elements in the space formed by the eccentric mounting thereof, an intake passage for the pump chamber including an intake port disposed on one side of the point of engagement of said pumping elements, a discharge passage including a discharge port disposed on the opposite side of the point of engagement of said elements, a drive shaft for rotating said elements, said elements being operable upon rotation to draw liquid into the pump chamber and forcibly discharge the same therefrom, a passage for conducting a portion of the liquid discharged from the chamber to the auxiliary reservoir in the casing, and an auxiliary intake port for the pump chamber disposed intermediate the intake and exhaust ports and supplied with liquid from the auxiliary reservoir to compensate for any deficiency at the intake port when the elements are operating at high vacuum and against high pressure.

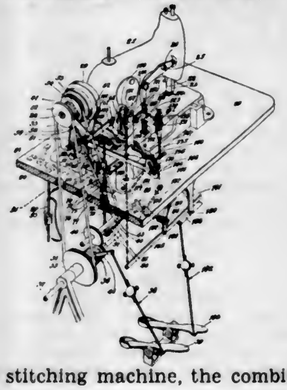


2,159,721
GUIDING AND BACKING MEANS FOR AUTOMOBILE TRAILERS
Alfred M. Wright, Oakland, Calif.
Application March 22, 1937, Serial No. 132,414
1 Claim. (Cl. 280—33.5)



Means for maintaining in alignment and guiding a trailer chassis relative to a draft vehicle when being backed comprising a transversely arranged spring equalizing and retracting member carried by the trailer chassis, spaced flexible connections having sections thereof associated with said equalizing member and certain ends thereof connected to the draft vehicle, thereby producing an equalized pull on the trailer chassis to guide the same rearwardly and to track directly behind the draft vehicle, and tubular guide members arranged on opposite sides of said trailer chassis and capable of retaining said flexible connections in spaced relation.

2,159,722
STITCHING MACHINE
Joseph William Bedard, Hoosick Falls, N. Y.
Application September 26, 1935, Serial No. 42,170
26 Claims. (Cl. 112—219)



1. In a stitching machine, the combination of

a main drive shaft, a primary source of power adapted to rotate the shaft at a high rate of speed, an auxiliary source of power adapted to continue the rotation of the shaft, and means for applying a braking action on said shaft while it is being rotated by the auxiliary source of power to gradually bring it to rest in a final desired position.

2,159,723

APPARATUS SUBJECTED TO HEAT AND COLD ALTERNATELY

Russell Franks, Niagara Falls, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Original application June 18, 1935, Serial No. 27,161. Divided and this application April 27, 1937, Serial No. 139,258

2 Claims. (Cl. 75—126)

1. Apparatus and parts thereof which during use are alternately heated to temperatures upwards of about 400° C., cooled to temperatures at or below about 0° C. and subjected to impact stresses at the lower temperatures and which consists of a ferritic alloy steel containing about 4% to 10% chromium; 0.01% to 0.15% carbon; silicon in amounts not over about 0.75%; about 0.25% to 1.5% molybdenum; 0.06% to 2.4% columbium, the columbium content being 6 to 16 times the carbon content; the remainder substantially all iron.

2,159,724

STAINLESS STEEL

Russell Franks, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application March 19, 1938, Serial No. 196,908

6 Claims. (Cl. 75—128)

1. A container for saline solutions composed of an austenitic steel containing 16% to 30% chromium, 7% to 20% nickel, 2% to 5% molybdenum, manganese in an amount not exceeding 4%, silicon in an amount less than 1%, carbon in an amount not exceeding 0.2%, and columbium in an amount at least four times the carbon content but not exceeding ten times the carbon content by more than 1.5%, the remainder iron; the columbium and molybdenum acting to impart to said container resistance to localized attack by saline solutions.

2,159,725

CORROSION RESISTANT STEEL

Russell Franks, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application March 19, 1938, Serial No. 196,909

6 Claims. (Cl. 75—128)

1. A container for saline solutions composed of an austenitic steel containing 16% to 30% chromium, 7% to 20% nickel, 2% to 5% molybdenum, 1.5% to 5% manganese, carbon in an amount less than 0.2%, silicon in an amount not exceeding 1%, the remainder iron; the molybdenum and manganese acting to impart to such container resistance to localized attack by saline solutions.

2,159,726

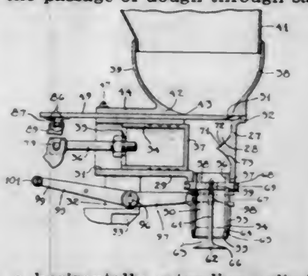
DOUGH CUTTER

Alexander S. T. Lagaard, Minneapolis, Minn.

Application February 15, 1937, Serial No. 125,691

5 Claims. (Cl. 107—14)

1. A dough cutter comprising a dough hopper having a downwardly directed outlet, a vertically extending tubular receiver disposed below said hopper and communicating at its upper end with said hopper through said outlet, a die at the lower end of said receiver, means for controlling the passage of dough through said outlet



and die, a horizontally extending cylinder communicating with said receiver intermediate its ends, a piston in said cylinder and a V-shaped deflector in said receiver opposite said cylinder and arranged with its vertex directed toward said cylinder.

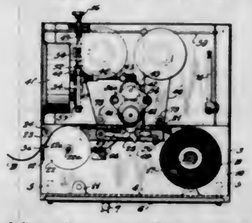
2,159,727

RECORDING MECHANISM FOR VEHICLES

Joseph M. Markley, Jr., Canton, Ohio, assignor of one-half to Myron D. Markley, Canton, Ohio

Application July 11, 1935, Serial No. 30,911

1 Claim. (Cl. 234—2)



In a machine for recording operations of a vehicle, the combination with a clock mechanism having a rotatable time indication changing member for changing the position of the clock hands, of a set of time recording discs driven by said clock mechanism, a movable platen, a movable web and an ink carrying ribbon between said discs and said platen, means for operating said platen to impress a record from said discs onto said web, a slidable and rotatable device normally disengaged from said time indication changing member and arranged to be manually operated into engagement therewith for rotating said member in either direction, and means operably connected at all times to said device and movable thereby to make an indication on said web when said device is shifted into engagement with said time indication changing member.

2,159,728

UTENSIL HANDLE

Stephen A. Platt, Decatur, Ill., assignor to U. S. Manufacturing Corporation, Decatur, Ill., a corporation of Illinois

Application June 8, 1938, Serial No. 212,421

1 Claim. (Cl. 140—71)

In a handle for a fly swatter, utensil and the like having a gripping loop at one end thereof, said gripping loop being provided with an inward bend, an auxiliary gripping loop mounted adjacent said first-named gripping loop at right

angles to the plane of the latter, said auxiliary gripping loop having a crimp therein adjacent



said inward bend of said first-named loop and being permanently attached to said handle element.

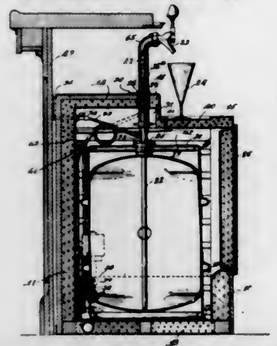
2,159,729

BEVERAGE COOLING AND DISPENSING APPARATUS AND METHOD

Harry W. Ribble, Niles Center, Ill., assignor, by mesne assignments, to Rapids Equipment Co. Inc., Cedar Rapids, Iowa, a corporation of Iowa

Application June 1, 1937, Serial No. 145,723

11 Claims. (Cl. 62—33)



10. The method of cooling a beverage containing keg which comprises partially immersing said keg in a shallow bath of water, maintaining said bath at a constant low temperature by means of a mass of ice projecting from said bath at one side of said keg and of sufficient bulk to cause a portion of the ice to remain at the bottom of the bath, and maintaining substantially constant the depth of said bath.

11. The combination with a cabinet of cooling apparatus carried thereby; said cabinet including a beverage keg receiving compartment arranged to maintain a bath of cooling liquid in contact with the lower portion of a keg located in normal position within the compartment and a closure for the top of said compartment; said apparatus comprising a jacket projecting through said closure, a draft conduit extending through the jacket, a conduit system including a pump for supplying cooled liquid from said bath to said jacket, and means for conducting the liquid from said jacket to a point located above the normal position of the head of a keg arranged within said cabinet.

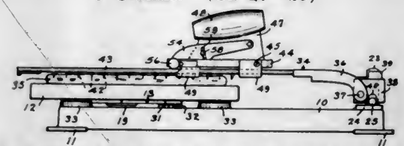
2,159,730

MEAT-SCORING MACHINE

John A. Voris, Kirkland, Wash.; E. A. Voris administrator of John A. Voris, deceased

Application April 6, 1936, Serial No. 72,904

9 Claims. (Cl. 17—25)



1. In a meat scoring machine of the class described, a meat supporting table; a meat holding plate movable toward and away from said meat supporting table and having a plurality of spaced apart parallel slots therein; track means extending lengthwise of said meat holding plate; a knife holding carriage mounted for longitudinal sliding movement on said track means of said meat holding plate and connected with said track means of said meat holding plate for simultaneous vertical movement therewith; two handles provided on the respective sides of said knife holding carriage providing means by which said carriage may be slidably moved longitudinally of said meat holding plate or by which said carriage and said plate may be raised and lowered together; and knives carried by said knife holding carriage operable through the slots in said meat holding plate.

5. In a meat scoring machine of the class described, a base, a meat supporting turn table pivotally mounted on said base; a meat holding table pivotally connected with said base for movement toward and away from said turn table and for movement sidewise with respect to said turn table; and turn table rotating means interconnecting said turn table and said meat holding plate operative to rotatively move said turn table in response to sidewise movement of said meat holding plate relative to said turn table.

2,159,731

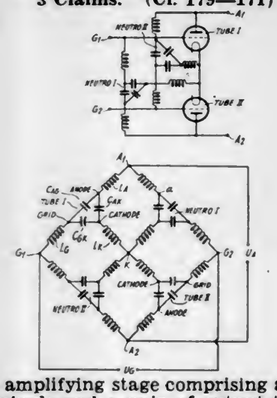
NEUTRALIZING HIGH-FREQUENCY PUSH-PULL AMPLIFIERS

Werner Buschbeck and Hans Prost, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 8, 1936, Serial No. 104,634

In Germany September 13, 1935

3 Claims. (Cl. 179—171)



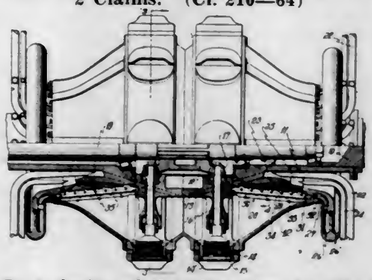
1. An amplifying stage comprising a pair of input terminals and a pair of output terminals, a

pair of tube networks forming a push-pull circuit each of said tubes including an anode, a cathode and a grid electrode, inherent capacity between the tube elements comprising C_{AG} between said anode and grid, C_{AK} between said anode and cathode and C_{GK} between said grid and cathode, said tube networks including leads for connecting said tube elements in the circuit, inductance L_K in the lead from each cathode, inductance L_A in the lead from each anode and inductance L_G in the lead from each grid, said inductances being related to said capacities substantially in accordance with the proportion

$$L_A:L_K:L_G=C_{GK}:C_{AG}:C_{AK}$$

a pair of balancing networks composed of capacities and inductances substantially identical both as to arrangement and magnitude with said tube network capacities and inductances, whereby each of said balancing networks includes inductances L_K, L_A and L_G, and capacities C_{AG}, C_{AK} and C_{GK}, means connecting together the ends of the inductances L_K of the tube networks remote from the cathodes and the corresponding ends of the inductances L_K of the balancing networks, means for connecting the end of the inductance L_A remote from the anode of one tube network and the corresponding end of inductance L_A of one balancing network together and to one of said output terminals, means for connecting the end of inductance L_A remote from the anode of the other tube network and the corresponding end of inductance L_A of the other balancing network together and to the other output terminal, means for connecting the end of inductance L_G of said one tube network remote from the grid and the corresponding end of inductance L_G of said other balancing network together and to an input terminal and means for connecting the end of inductance L_G remote from the grid of said other tube network and the corresponding end of inductance L_G of said one balancing network together and to the other input terminal, whereby voltage impressed between the output terminals produces no difference of potential either between the input terminals or across C_{GK} of either tube and conversely voltage impressed between said input terminals produces no difference of potential either between the output terminals or across C_{AK} of either tube in spite of the existence of inherent inductance in said leads.

2,159,732
CENTRIFUGAL METHOD AND APPARATUS THEREFOR
Henry Burdett Cleveland, New York, N. Y.
Application May 28, 1934, Serial No. 727,959
2 Claims. (Cl. 210—64)



1. In a device of the character described, the combination comprising means adapted for supplying material to be deliquidated, means adapted for separating centrifugally therefrom at least a part of the solids therein, means adapted for removing at least a portion of said separated solids continuously, and automatic means adapted, when the unremoved separated solids amount to a predetermined quantity, for varying the rate of operation of said removing means.

2,159,733
CURTAIN HEADING TAPE
George Frederick French, Manchester, England
Application June 7, 1938, Serial No. 212,263
In Great Britain February 25, 1937
2 Claims. (Cl. 156—10)



2. A curtain heading tape in which the hook-tubes, both when the tape is pleated and unpleated, are contiguous to one another (so that each hook-tube finishes where the adjoining hook-tube starts), all the hook-tubes lying on the same side of the tape, and each consisting of a rear wall part and a front wall part, which parts, on the tape being pleated, separate from each other, one to form a pleat channel and the other to bridge the channel and thereby provide an open passage for a curtain suspension hook adapted to straddle two adjacent hook-tubes, and a drawcord passing through every hook-tube, said drawcords engaging one or more wefts of the back wall of each hook-tube.

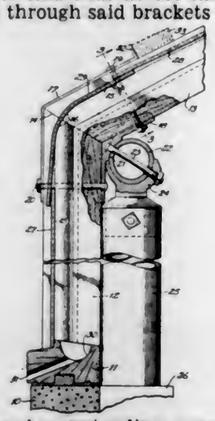
2,159,734
CURTAIN HEADING TAPE AND THE LIKE
George Frederick French, Manchester, England
Application August 3, 1938, Serial No. 222,744
In Great Britain March 18, 1937
4 Claims. (Cl. 156—10)



1. Curtain heading tape and the like of the kind herein named formed on the same side with a plurality of pairs of hook-tubes or loops, said pairs of hook-tubes being in alinement with one another and at spaced intervals apart, said spacing being substantially greater than the width of said pairs of hook tubes, whereby such intermediate portions are more flexible than the portions containing the hook-tubes and allow ready folding at such intermediate portions.

2,159,735
GREENHOUSE
Ernst Gast, Chicago, Ill., assignor to Ickes-Braun Mill Company, Chicago, Ill., a corporation of Illinois
Application February 12, 1938, Serial No. 190,218
5 Claims. (Cl. 189—4)

1. In a greenhouse structure of the class described, a vertical side glazing bar and an inclined roof glazing bar having their adjacent ends meeting in a joint, outer and inner angle brackets respectively overlying the outer and inner sides of said ends across said joint, clamp bolts passed through said brackets and ends, and



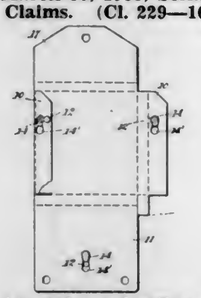
an eave member extending crosswise of and bolted to said inner bracket.

2,159,736
ELECTRIC LAMP AND METHOD OF MAKING THE SAME
Walter J. Geiger and Alfred T. Gaskill, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application May 22, 1934, Serial No. 726,892
5 Claims. (Cl. 49—84)



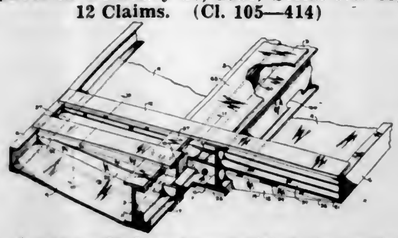
1. The method of making bulbs for miniature electric lamps which comprises directing a flame upon the upper end of a vertically disposed cylindrical glass tube to heat said end sufficiently to cause it to be fused down into a solid mass of glass which acquires a definite lens shape of the same diameter as said tube and having a convex outer surface without further shaping.

2,159,737
CARTON
Herman L. Greve, Hollis, N. Y., assignor to International Mailing Tube and Wrapper Company, Long Island City, N. Y., a corporation of New York
Application March 30, 1938, Serial No. 198,940
3 Claims. (Cl. 229—16)



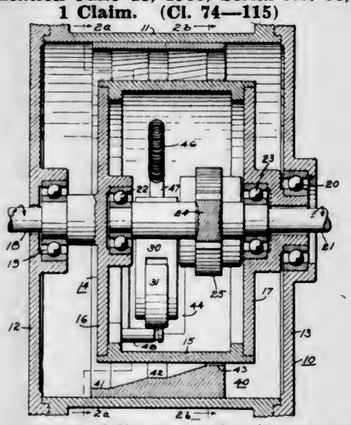
1. A carton blank formed with a flap portion, a clip having prongs which extend thru and are clinched to the inner wall thereof, a tab cut from the flap material adjacent said prongs and having a hinge formed integral with the flap and normally lying within the plane of said flap and adapted to be swung and extended over said prongs in disconnected relation with said flap when the blank is folded into a carton form.

2,159,738
LOCOMOTIVE TENDER
Elmer E. Hicken, Collingswood, N. J.
Application February 27, 1936, Serial No. 65,992
12 Claims. (Cl. 105—414)



1. A car underframe comprising, in combination, a center sill, and a bolster having two sets of transverse members, said sets being longitudinally spaced apart and each set having upper and lower T-members located respectively above and below said center sill, the stems of said T-members being in opposed relation to each other, a transversely extending I-beam having its flanges operatively connected respectively to the stems of each set of T-members whereby the web of said I-beam lies horizontally, and side bearing means associated with the web of said I-beam whereby the truck side bearing projects upwardly between the lower T-members.

2,159,739
OVERLAPPING CAM ACTION
William Horace Johnson, Cranston, R. I., assignor to Weskenson Corporation, Providence, R. I., a corporation of Rhode Island
Application June 18, 1936, Serial No. 85,841
1 Claim. (Cl. 74—115)



In a cam and follower mechanism, an operatively stationary, sleeve cam member having an internal cam surface, said surface comprising a follower-raising portion and a follower-releasing portion constituting together the entire operating surface of the cam, an internal rotary member within said sleeve member, a pair of cam followers pivoted to said rotary member and engaging said cam surface at points spaced substan-

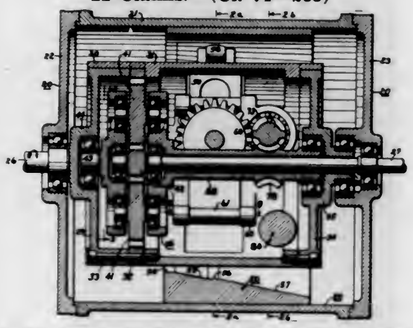
tially 180° apart, said follower-raising portion extending through an angle greater than 180° from its low point to its high point, whereby each follower picks up its load before the other follower gives up its load.

2,159,740

VARIABLE SPEED TRANSMISSION

William Horace Johnson, Cranston, R. I., assignor to Weskenson Corporation, Providence, R. I., a corporation of Rhode Island

Application March 20, 1935, Serial No. 11,913
Renewed October 18, 1938
11 Claims. (Cl. 74—283)



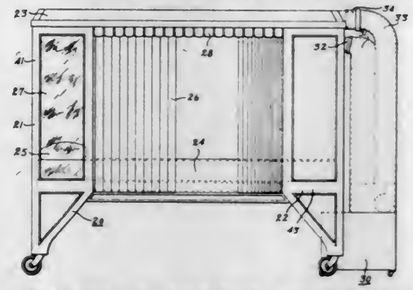
1. In a speed change transmission device, a first shaft, a second shaft, a carrier driven by said first shaft, a pair of reciprocatory racks mounted on said carrier, a stationary cam member having a cam surface variable axially to impress different throws on said racks, means for axially moving said cam member to adjust the speed ratio, an auxiliary shaft journalled in said carrier and carrying pinions engageable with said racks, separate, one-way, oppositely acting clutches driven by said pinions, respectively, a transfer device, driven by said clutches in a single direction, and an irreversible drive connecting said transfer device and said second shaft.

2,159,741

BED AIR CONDITIONING APPARATUS

Charles F. Kettering and Edwin C. Sittler, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application August 30, 1933, Serial No. 687,512
9 Claims. (Cl. 62—129)



1. Refrigerating apparatus including a bed structure having body supporting means and an air confining wall structure for confining cooled air above the body supporting means, said wall structure being supported by the bed structure and being separately removable therefrom, said wall structure extending upwardly from the edges of the body supporting means completely around the sides of the bed, at least a portion of said wall structure being formed of movable air confining fabric curtains for entering and leaving the bed, and forced draft means for discharging cooled air within the wall structure and below the top thereof.

6. An air cooling and circulating device comprising a receptacle into which the person is received, said receptacle having a wall, a portion of which is movable in a substantially vertical direction to secure entrance and exit from said receptacle, and means for inserting cooled air into said receptacle.

2,159,742

GAS PRESSURE ELECTRIC CABLE

Ernst Kirch, Berlin-Niederschoneweide, Germany, assignor to General Electric Company, a corporation of New York

Application January 14, 1936, Serial No. 59,128
In Germany January 19, 1935
11 Claims. (Cl. 174—26)



1. A cable comprising a conductor, a body of permeable insulation arranged in layers surrounding the conductor, a single impregnating medium common to all of the layers of the insulation, an enclosing sheath, means existing as separate identities prior to impregnation located between layers of the insulation and acting to restrict migration of the impregnating medium within the body when the cable is in operation from a part of the cable located at one level to that located at a lower level, and an unrestricted longitudinally extending channel also within the sheath containing a body of gas under super-atmospheric pressure which has free access to the body of insulation.

2,159,743

CELLULOSIC STRUCTURE AND METHOD FOR PREPARING SAME

George H. Latham and James K. Hunt, Wilmington, Del., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 18, 1935, Serial No. 27,232
5 Claims. (Cl. 99—171)

1. The method of packaging commodities which comprises treating a regenerated cellulose pellicle with a solution of a mold inhibitive agent of the class consisting of formaldehyde and thioformaldehyde, drying the same, and applying the pellicle to the wrapping of a commodity which is susceptible to mold growth, said mold inhibitive agent being present in the pellicle in a concentration so small as not to impart taste or odor to the commodity, but sufficient to prevent mold growth.

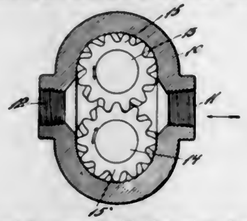
2,159,744

GEAR PUMP

George F. Maglott, Wrentham, Mass., assignor to Brown & Sharpe Manufacturing Company, a corporation of Rhode Island

Application August 26, 1936, Serial No. 97,970
6 Claims. (Cl. 103—128)

2. In a gear pump, a toothed rotor having the profile of the teeth on a section perpendicular to the axis provided with a continuity equal to one-half, and a helical advance across the face of



the rotor equal to one-half the circular pitch of the teeth.

2,159,745

INSIGNE INSERT CLIP

Clinton E. Marshall, Bronx, N. Y.

Application October 1, 1938, Serial No. 232,727
6 Claims. (Cl. 40—140)



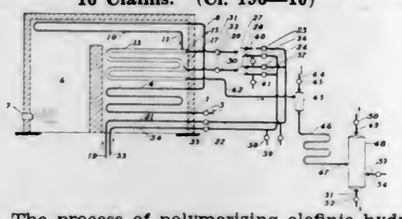
1. In a supporting clip of the class described having an elongated mounting end portion, said mounting end portion comprising a top wall, depending side walls and one end wall forming a substantially channel-shaped body of said end portion, the side walls having integral projecting prongs for mounting the clip upon a suitable support, the top wall of said channel body having an elongated aperture within the boundaries of said side walls, a plurality of insignia elements arranged within the aperture of said body in abutting relation with the outer surfaces of the elements exposed through said aperture, the long sides of said aperture having depending flanges extending into the channel of said body, the opposed sides of said elements fitting snugly within said aperture in abutting relation to each other and in firm engagement with said flanges, and means retaining said elements against accidental displacement from said clip.

2,159,746

METHOD FOR PROMOTING AND CONTROLLING THE POLYMERIZATION OF HYDROCARBON GASES

Percy A. Maschwitz, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application May 31, 1935, Serial No. 24,312
16 Claims. (Cl. 196—10)



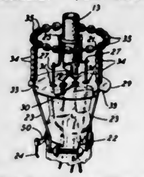
1. The process of polymerizing olefinic hydrocarbon gases to heavier hydrocarbon which comprises heating said gases to a temperature insufficient to induce substantial polymerization, but sufficient to induce oxidation when mixed with free oxygen containing gas, mixing with the heated gas an amount of free oxygen containing gas sufficient to react with only a small portion of the hydrocarbon gases to raise the temperature of the gases to a point sufficient to induce active polymerization in the absence of oxygen, mixing sufficient steam or water with the reacting gases to maintain the reaction temperature within the desired polymerizing range, maintaining the gases in the polymerization zone for a period of time sufficient to convert a substantial portion thereof to heavier compounds, cooling the reaction products, and separating the uncondensed fractions therefrom.

2,159,747

GLOW DISCHARGE DEVICE

Hallam E. Mendenhall, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 3, 1935, Serial No. 43,294
5 Claims. (Cl. 250—27.5)



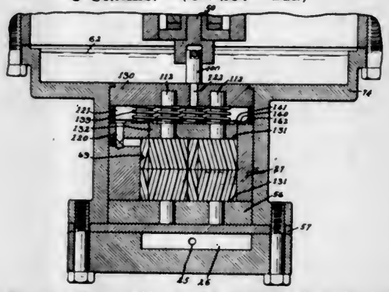
4. A glow discharge device comprising an enclosing vessel having therein an ionizable atmosphere, a cathode, a wire ring control electrode encompassing said cathode, a wire ring anode encompassing said control electrode, and insulating beads on portions of said anode.

2,159,748

REFRIGERATING APPARATUS

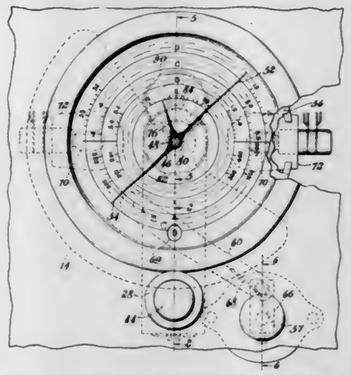
Ralph K. Miller and Robert R. Candor, Dayton, Ohio

Refiled for abandoned application Serial No. 329,156, December 29, 1928. This application January 19, 1934, Serial No. 707,394. Renewed March 17, 1937
3 Claims. (Cl. 230—141)



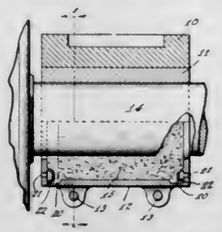
1. In a refrigerating apparatus wherein lubricant and refrigerant are circulated in closed paths, a refrigerant compressor comprising a casing, pumping gears in said casing provided with shafts and end shoulders, plates at opposite ends of the gears having recesses receiving said shafts, one of said plates being relatively movable by pressure of the compressed refrigerant and by resilient means against at least one of said shoulders, said last named plate having a periphery substantially co-extensive with the composite periphery of said gears and fitting in a recess of substantially the same periphery formed in said casing, said movable plate incorporating pressure relief means for conducting away lubricant trapped in the intermeshing teeth of said gears.

2,159,749
INDICATING DEVICE
William E. Newman, Moorestown, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application November 30, 1934, Serial No. 755,337
8 Claims. (Cl. 116—124.1)



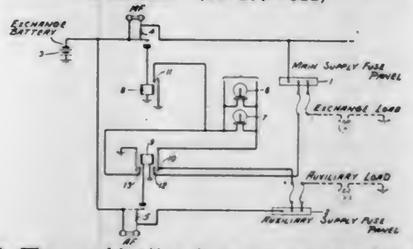
1. In tuning mechanism, a rotatable drive shaft having a given range of movement, means driven by said shaft for indicating the angular position thereof, vernier indicating means providing a visual indication of incremental movements of said first-named indicating means, a gear-train for driving said vernier indicating means from said shaft with a step-up ratio from the latter to the former, and a tensioned spring having one end thereof fixed against movement and its other end fixed for movement with one of the gears in said train to cause the spring tension to increase upon rotation of said shaft in one direction and to cause the spring tension to decrease upon rotation of said shaft in the opposite direction.

2,159,750
WATER DRAIN FOR JOURNAL CELLARS
Joseph E. Runner, Indianapolis, Ind.
Application May 7, 1936, Serial No. 78,434
7 Claims. (Cl. 308—87)



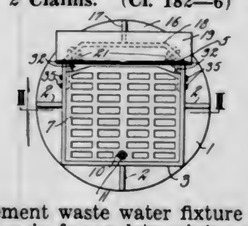
1. In a journal-box for the axles of railway cars or locomotives, a journal-containing compartment having a bottom spaced downwardly from the associated axle journal, oil-impregnated waste disposed in said compartment and filling the space between the compartment-bottom and the axle journal, a sump in said compartment, and a discharge conduit opening into said sump and discharging exteriorly of said waste compartment, said discharge conduit at one point in its length having an elevation greater than that of the bottom of said waste compartment.

2,159,751
SIGNALING SYSTEM
George N. Saul, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 22, 1935, Serial No. 27,944
3 Claims. (Cl. 177—311)



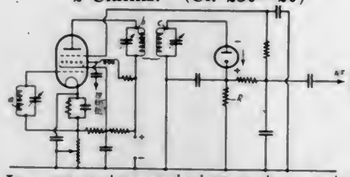
1. The combination in a current supply and fuse alarm system for a telephone exchange, of a single exchange battery, a main exchange load and an auxiliary exchange load, a main supply circuit extending from one pole of said battery to said main load for supplying current thereto, a separate auxiliary supply circuit extending from the same pole of said battery to said auxiliary load for supplying current thereto, a fuse in said main supply circuit and a relay operable when said fuse ruptures, a fuse in said auxiliary supply circuit and a second relay operable when said auxiliary fuse ruptures, a single signal lamp for giving an alarm when either of said fuses ruptures, and circuit means controlled by said relays for feeding current to said lamp through either one of said fuses when the other fuse ruptures without establishing any conducting path from one of said supply circuits to the other, the circuit for lighting said lamp when said main fuse ruptures including a path extending from a particular pole of said battery through the auxiliary fuse and contacts of said second relay to a particular terminal of said lamp and a circuit path extending from the other pole of said battery through operated contacts of said first relay to the other terminal of the lamp, and the circuit for lighting said lamp when the auxiliary fuse ruptures includes a path extending from said particular pole of the battery, through the main fuse and another contact of said second relay to said particular terminal of said lamp and a circuit path from said other pole of the battery through a contact of said second relay to said other terminal of said lamp.

2,159,752
CURB INLET
Ernest W. Shaw, Toledo, Ohio, assignor to The France Foundry & Machine Co., Toledo, Ohio, a corporation of Ohio
Application June 6, 1938, Serial No. 212,106
2 Claims. (Cl. 182—6)



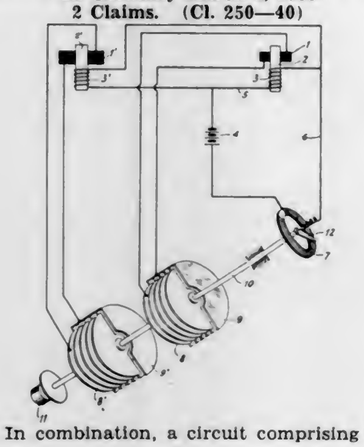
2. A pavement waste water fixture embodying a U-shaped main frame determining a base level, and a minor coincident base level additional frame shiftable horizontally into closing position between the legs of the main U-frame, said minor frame having parallel projecting arms located by said shifting into interlocking position with the legs to position the frames for retaining their base portions in a common plane.

2,159,753
RECEIVER NOISE QUIETING CIRCUITS
Karl Steimel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application May 9, 1936, Serial No. 78,878
In Germany May 10, 1935
2 Claims. (Cl. 250—20)



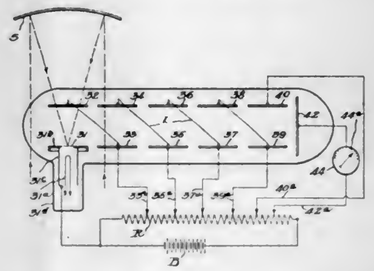
1. In a wave transmission system, a transmission tube of the type including at least a cathode and at least two cold electrodes arranged in the electron stream therefrom, a wave input circuit connected between one of the cold electrodes and the cathode, means for establishing the second cold electrode at a direct current potential with respect to said cathode such that the gain of the tube is a minimum when the wave amplitude is a minimum, and additional means responsive to amplitude increase of waves for varying said direct current potential of the second cold electrode in a polarity sense such as to oppose the said gain reducing effect, an output electrode in said tube, a wave output circuit connected between the cathode and output electrode, said additional responsive means including a wave rectifier having an input circuit reactively coupled to said output circuit, and said two cold electrodes being disposed in the electron stream between the cathode and output electrode.

2,159,754
TUNING ELEMENT FOR BROADCAST RECEIVER SETS
Otto Wohlfarth, Berlin, Germany, assignor to Allgemeine Elektricitats Gesellschaft, Berlin, Germany, a corporation of Germany
Application January 2, 1936, Serial No. 57,172
In Germany March 4, 1935
2 Claims. (Cl. 250—40)



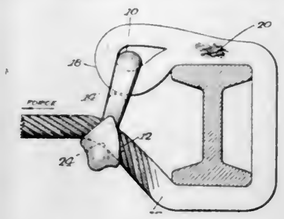
1. In combination, a circuit comprising a coil having a core of magnetic material, a condenser connected to said coil, means for varying the capacity of said condenser and the magnetic flux density of said core to tune said circuit over a band of frequencies, a second circuit comprising a coil having a core of magnetic material, a condenser connected to said second named coil, means for varying the capacity of said second condenser and the magnetic flux density of said second named core to tune said second named circuit over a different band of frequencies and a single control means arranged to operate both said capacity varying means.

2,159,755
METHOD AND APPARATUS FOR DETECTING HEAT
Vladimir K. Zworykin, Philadelphia, Pa., and Louis Malter, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application May 7, 1936, Serial No. 78,344
2 Claims. (Cl. 250—166)



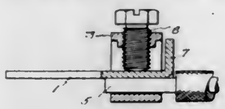
1. A heat responsive device comprising an evacuated envelope containing a radiant-heat responsive electron-emissive cathode constituted essentially of silver foil of a thickness of the order of .0002 of an inch, means for multiplying electrons from said cathode, and a collector electrode upon which said multiplied electrons impinge.

2,159,756
COUPLING MEMBER
Glenn R. Bamberger, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 19, 1936, Serial No. 111,668
6 Claims. (Cl. 294—74)



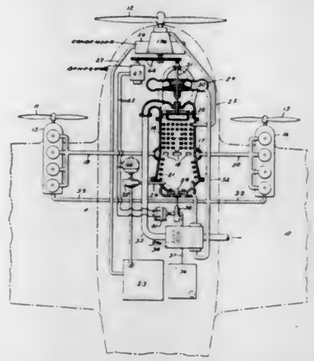
1. A one-piece coupling device comprising an attenuated piece of metal lying in substantially one plane and curled into an endless integrally-closed eye and an open eye, said open eye having an approximately straight tension member bearing surface inclined transversely to and passing through said plane.

2,159,757
ELECTRICAL COUPLING
Henry J. Blakeslee, Marlboro, Conn., assignor to The States Company, Hartford, Conn., a corporation of Connecticut
Application April 13, 1938, Serial No. 201,721
2 Claims. (Cl. 173—269)



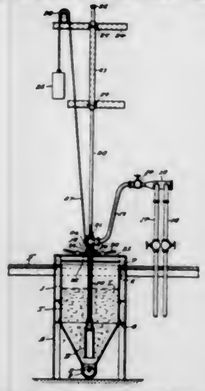
1. An electrical coupling designed to be attached to a service block, which comprises a conducting loop with a screw threaded into said loop and a conducting plate bent at substantially right angles forming angularly related limbs of such size that either may be thrust into and loosely fit the opening through said loop, one of said limbs having means adapting it to be attached to a service block and provide a conducting path to a terminal on the block, the limb that is thrust into the loop being positioned to be engaged by said screw and forced toward the bottom of the loop and the other limb being positioned to extend parallel with the screw at a side of the loop and when the parts are assembled in the relation of normal use obstruct the opening into the loop between the screw and plate from the side that the conductor to be connected is normally entered into the loop.

2,159,758
POWER PLANT
Günther Diedrich, Berlin-Reinickendorf, Germany, assignor to General Electric Company, a corporation of New York
Application September 13, 1937, Serial No. 163,688
In Germany September 24, 1936
1 Claim. (Cl. 60—11)



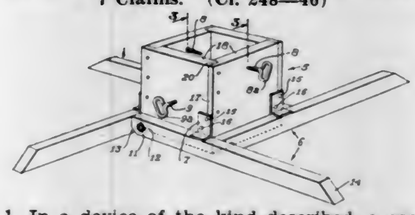
A power plant including the combination of a boiler forming a combustion space, a combustion engine, means including an annular channel and a ring of nozzles formed in the wall of the boiler for conducting exhaust gases from the engine to points in the combustion space at which the temperature is the same as that of the combustion gases, and means for supplying fuel and air to the boiler, said means including a centrifugal type compressor and a gas turbine receiving combustion gases from the boiler and driving the compressor, the gas turbine having a bucket wheel enclosed in the boiler casing.

2,159,759
APPARATUS FOR RECOVERING ANHYDROUS SODIUM SULPHATE AND THE LIKE
Henry W. Doennecke and Emory W. Douglass, Tulsa, Okla., and Carl O. Anderson, Baxter Springs, Kans., assignors to Ozark Chemical Company, Tulsa, Okla., a corporation of Delaware
Original application August 31, 1935, Serial No. 38,714. Divided and this application May 7, 1937, Serial No. 141,340
2 Claims. (Cl. 126—360)



1. A burner for the submerged combustion of fuel beneath the surface of fluid and substantially out of contact therewith comprising a hollow approximately cylindrical metal tube of interiorly unobstructed uniform cross sectional area from end to end forming a downwardly directed combustion chamber for confining the products of combustion and having the sole outlet therefor at its lower end of like cross sectional area, a hollow metal portion forming a frusto-conical expansion chamber having its lower end co-extensive and integrally united with the upper end of said tube, and means secured to the upper end of said portion for introducing axially into the expansion chamber a combustible mixture of fuel and air under pressure in a downwardly directed stream and for supporting said portion and tube beneath the surface of the fluid in heat exchange relation therewith.

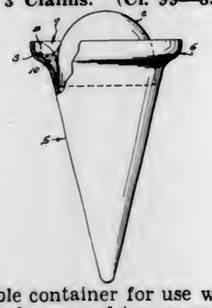
2,159,760
TREE HOLDER
Cecil Y. Fitzgerald, Monrovia, Calif., assignor of one-third to David G. Brand, Monrovia, Calif., and one-third to William L. Davis, Pasadena, Calif.
Application July 15, 1938, Serial No. 219,395
7 Claims. (Cl. 248—46)



1. In a device of the kind described, a socket member disposable in a position to receive the base portion of a tree or other elongated object in an upstanding position, a plurality of base bars having one end pivotally fastened to the lower

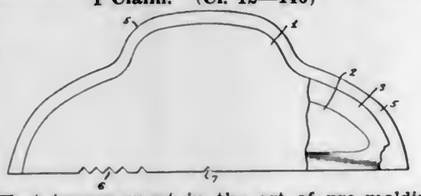
portion of said member and swingable from a retracted position to an extended position wherein they occupy approximately the same horizontal plane as the lower end of said socket member when the latter is positioned as aforesaid, the free end of one bar extending outwardly beyond the pivoted end of an adjacent bar, and means extending outwardly from the outer face of said socket member and being engageable by an intermediate portion of each bar to restrict the further swinging thereof when it has reached the operative limit of its swing.

2,159,761
ICE CREAM SUNDAE
William H. Fredrickson, Seattle, Wash.
Application February 5, 1938, Serial No. 188,940
3 Claims. (Cl. 99—89)



1. An edible container for use with a standard semi-spherical scoop of ice cream and syrup to provide an ice cream sundae and comprising a cake-dough product formed with a conical handle part and surmounted by a ruff-like enlargement provided interiorly at spaced intervals of the circumference with a plurality of radially disposed ribs, said product at the juncture of the conical base with the surmounting enlargement being of a diameter exceeding to a slight extent the diameter of the scoop of ice cream, the ribs extending slightly inwardly beyond the inner limits of the enlargement such that the circumference defined by the inner limits thereof approximates the outer perimeter of the scoop of ice cream, said inner extensions being prolonged downwardly to merge with the wall of the conical handle below the upper limits of the same.

2,159,762
PREPARING AND PREMOLDING HEEL AND QUARTER PORTIONS OF BOOTS AND SHOES
Benjamin F. Hartwell, Leslie L. Hartwell, Jr., and Arthur F. Hartwell, Bellows Falls, Vt.
Application October 11, 1937, Serial No. 168,330
1 Claim. (Cl. 12—146)

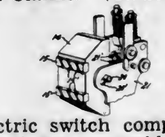


That improvement in the art of pre-molding a plurality of shoe upper materials into final finished form, with a finished edge along the top and an attaching flange along the bottom, independently of lasting operations, which consists in cutting the outer shoe upper layer, a lining layer, and an intermediate stiffening layer into substantially uniform contour and area, thereupon uniting said layers with adhesive while flat, then simultaneously stitching and trimming the top edge portions of said plurality of united shoe upper layers while still flat, and thereupon premolding the united and trimmed plurality of layers into final finished form, with an attaching flange inturned on the unstitched bottom edge, said flange incorporating all three of said layers.

2,159,763
METALLIC COMPOSITION
Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application October 2, 1937, Serial No. 167,023
5 Claims. (Cl. 75—22)

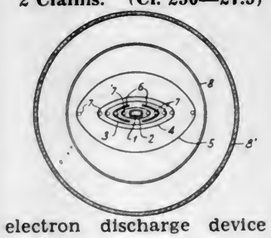
1. A metal composition of nickel, cadmium and silver, said nickel comprising 25 to 90% of said composition, said cadmium comprising 1 to 30% of said composition, balance substantially all silver.

2,159,764
CIRCUIT BREAKER CONTACT
Charles H. Hill, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Original application November 21, 1935, Serial No. 50,915. Divided and this application August 11, 1936, Serial No. 95,394
4 Claims. (Cl. 200—164)



1. An electric switch comprising two spaced stationary contacts, a movable contact for bridging said spaced stationary contacts, means for actuating said movable contact to engage said stationary contacts including a movable member, and a pin and slot connection between said movable member and said bridging contact, the axis of the slot portion of said connection being oblique to the plane of said stationary contacts when said contacts are engaged by said bridging contact for effecting a relative sliding movement between said stationary and bridging contacts upon engagement thereof.

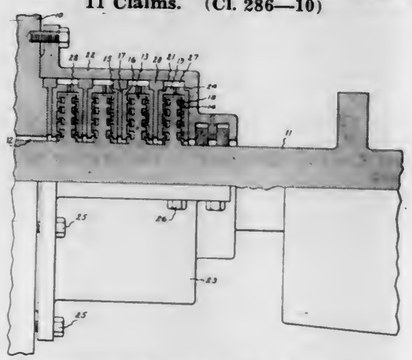
2,159,765
ELECTRON DISCHARGE DEVICE
Johan Lodewijk Hendrik Jonker and Bernardus Octavianus Maria Gall, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application May 27, 1938, Serial No. 210,328
In Germany June 14, 1937
2 Claims. (Cl. 250—27.5)



1. An electron discharge device having a

straight thermionic cathode for supplying electrons, and an anode surrounding said straight thermionic cathode for receiving said electrons, a pair of control grids surrounding and coaxial with said cathode and positioned between the cathode and anode, each of said grids being provided with a pair of oppositely disposed side rods, said side rods lying in a common plane, and a pair of shielding members positioned between the control grids and lying adjacent said side rods and providing openings on opposite sides of said cathode through which electrons from said cathode may travel to said anode.

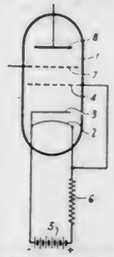
2,159,766
LABYRINTH PACKING
Anthony James Larrecq, Beachbluff, Mass., assignor to General Electric Company, a corporation of New York
Application April 15, 1938, Serial No. 202,277
11 Claims. (Cl. 286—10)



1. In combination, a casing, a shaft extending through an opening in said casing, a labyrinth packing for said opening comprising a plurality of axially spaced apart disk packing elements integrally connected together and mounted on said shaft, stationary packing units each comprising a pair of disks for assembly between adjacent shaft elements, means for spacing said disks of each stationary packing unit axially apart, peripheral rims provided on said stationary packing disks for engaging over the edge of said shaft elements and spacing said stationary packing disks from said shaft elements, a housing for said packing assembly, a plurality of annular chambers provided between said housing and said stationary packing units and passages through said rims communicating with said annular chambers.

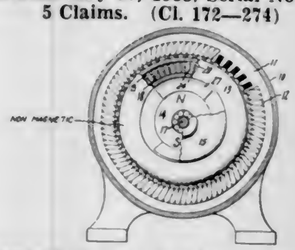
2,159,767
ELECTRON DISCHARGE DEVICE
Georg Liebich, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 18, 1936, Serial No. 96,577
In Germany August 19, 1935
8 Claims. (Cl. 250—27)

1. The method of operating a gas discharge tube having a thermionic cathode electrode, a discharge grid electrode, a control electrode, and an anode electrode, and comprising applying a voltage to said tube to establish a gas discharge between the thermionic cathode electrode and discharge grid electrode, utilizing variations in the internal resistance of the gas discharge path to control the voltage applied to said tube and impressing the resulting voltage between said



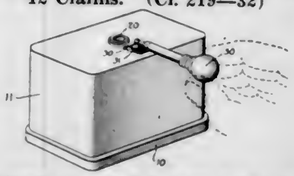
thermionic cathode electrode and said discharge grid electrode to maintain the current to the anode substantially constant.

2,159,768
HIGH POWER FACTOR INDUCTION MOTOR
Campbell Macmillan, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 17, 1938, Serial No. 208,396
5 Claims. (Cl. 172—274)



1. A secondary rotor member for an induction motor comprising a shaft, spider members forming the ends of said secondary secured to the shaft in spaced relation, a plurality of laminations of magnetic material secured between the peripheral portions of said spider members, parallel with and spaced from the shaft, said laminations being substantially radially disposed with respect to the shaft and certain of such laminations being spaced apart to provide slot spaces between them and a cast squirrel cage winding supported on said spider members with bars thereof filling said slots.

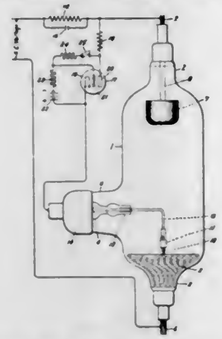
2,159,769
LIGHTER
Harry Negbaur, New York, N. Y., assignor to H. Negbaur & Co., Inc., New York, N. Y., a corporation of New York
Application October 1, 1936, Serial No. 103,512
12 Claims. (Cl. 219—32)



1. A battery operated lighter having an apertured casing, an enclosed, normally open circuit heater-coil disposed therein adjacent the aperture, a shutter for normally closing the aperture, enclosed shutter-operating means, an externally accessible device independent of the shutter and

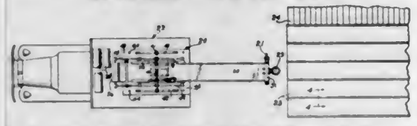
disposed closely adjacent the aperture and adapted for engagement with and operation by a torch to shift the shutter-actuating means to place the shutter in open position and bring the heater-coil into circuit, and a spring to restore the shutter to closed position upon release of said device.

2,159,770
STARTING ELECTRODE FOR POOL TUBES
Hobart E. Rowe, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 16, 1936, Serial No. 74,653
1 Claim. (Cl. 250—27.5)



An electron discharge device comprising a pool-type cathode, an anode, and a starting electrode in the form of a semi-conducting member having a portion thereof immersed in the cathode material during the normal operation of the device, said member being constituted of a plurality of cylindrical sections of varying diameters joined in end-to-end relationship, the sections being arranged in order of decreasing diameters so the section of least diameter forms the tip of the said immersed portion of the member.

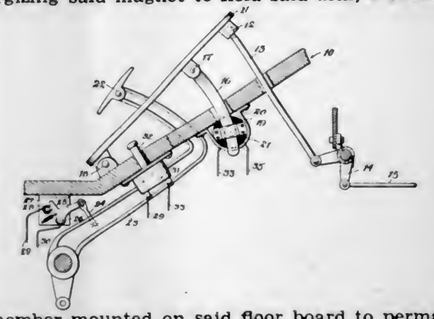
2,159,771
SHEET METAL FLANGING APPARATUS
Carl R. Schlicht, La Crosse, Wis.
Application June 22, 1938, Serial No. 215,155
20 Claims. (Cl. 153—29)



1. In the art of flanging the edges of elongated metal sheets for the covering of building and the like, a flanging device for flanging the sheet as it passes thru the device from a supply of sheet metal, and a device adapted to be secured to the flanged end of the sheet which extends from the flanging device, one of said devices being moved away from the other to effect a drawing of the metal sheet material thru the flanging device for flanging its edges.

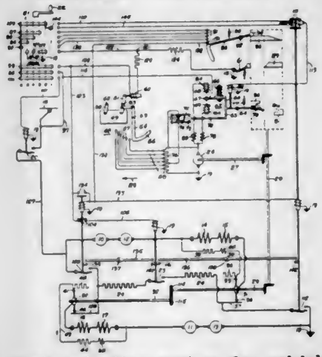
2,159,772
THROTTLE CONTROL
Edmund Schroedter, Baldwin, N. Y.
Application September 27, 1938, Serial No. 231,874
4 Claims. (Cl. 192—3)

4. The combination with a floor board having a foot accelerator and a brake pedal mounted thereon, of a magnet mounted below said floor board, a guide member on said magnet, an arm pivoted to said accelerator and extending through said floor board and guide member, means for energizing said magnet to hold said arm, a switch



member mounted on said floor board to permanently energize or de-energize said magnet, and an additional switch member mounted on said brake pedal to temporarily de-energize said magnet when the brake pedal is pressed.

2,159,773
CONTROL SYSTEM
John F. Tritle, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application May 22, 1935, Serial No. 22,745
38 Claims. (Cl. 172—179)

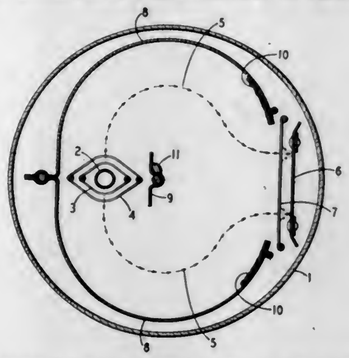


24. A motor starting system for vehicles comprising an electric vehicle driving motor, a source of energy for said motor, means for connecting said motor to said source of energy, means operative upon connection of said motor to said source for progressively increasing the power supplied to said motor for acceleration thereof, and means responsive to a plurality of predetermined rates of acceleration of the vehicle for controlling the rate of operation of said last named means.

2,159,774
SECONDARY ELECTRON EMITTER AND METHOD OF MAKING IT
Cornelis Frederik Veenemans, Edmund Heinrich Löpp, and Hajo Bruining, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application March 15, 1938, Serial No. 195,942
In the Netherlands March 30, 1937
4 Claims. (Cl. 250—174)

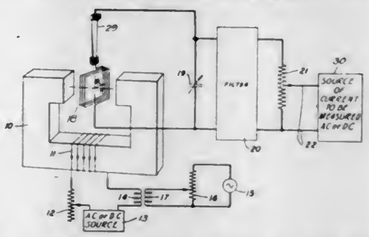
1. The method of forming in a tube a metal electrode having a surface of high secondary elec-

tron emissivity which comprises evacuating the tube, heating an alkaline earth metal carbonate in the tube to a temperature at which the carbonate decomposes with evolution of carbon di-



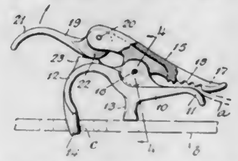
oxide gas and some alkaline earth metal oxide, and evaporating a metal selected from the group consisting of the alkaline earth metals and magnesium through the carbon dioxide atmosphere to the surface of the metal electrode.

2,159,775
GALVANOMETER
Frithiof B. Anderson, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 6, 1936, Serial No. 89,035
6 Claims. (Cl. 171—95)



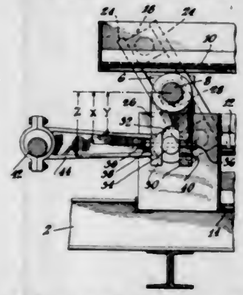
4. In a galvanometer, means for producing a magnetic field, a coil carrying an electric current to be measured, means for mounting the coil for rotation in the field and means for determining the sensitivity of the coil to rotation comprising a circuit containing reactance connected to the coil and means for subjecting the coil to the action of an alternating magnetic flux.

2,159,776
CLAMP
Guido E. Barozzi, Woodcliff, N. J.
Application April 22, 1937, Serial No. 138,362
1 Claim. (Cl. 24—84)



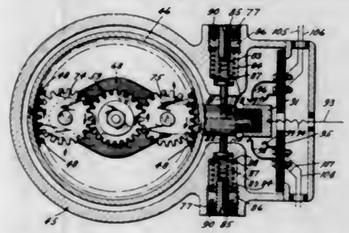
A clamp of the kind described comprising a main section including a clamping jaw, an auxiliary section pivotally connected with said main section and including an associate clamping jaw, a finger-piece forming a continuation of said main section and terminating in a holding peg, a bearing projection on said main section, a locking lever pivotally connected with said auxiliary section and including a cam member co-operating with said bearing projection to lock said associate jaw in clamping relation with said first named jaw, and a support depending from said main section for supporting the jaws of said clamp in predetermined operative position.

2,159,777
VARIABLE STROKE SHAKING SCREEN
Daniel M. Blackburn, Carbondale, Pa., assignor to Hendrick Manufacturing Company, a corporation of Pennsylvania
Application February 2, 1937, Serial No. 123,574
5 Claims. (Cl. 209—315)



1. In a shaking and whipping screen having oscillatable screen members, resilient hangers supporting said screen members and a rocker shaft to which said hangers are secured, driving means connected to said shaft for oscillating said shaft to rock said hangers through a predetermined arc to produce a shaking and whipping effect and means secured to said rocker shaft for varying the arc through which said driving means oscillates said shaft and hangers.

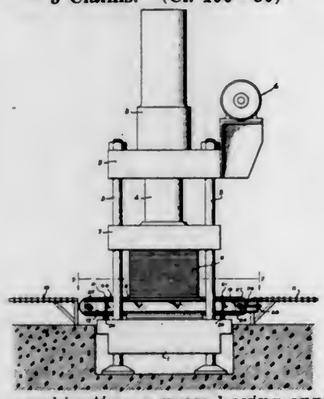
2,159,778
INERTIA OPERATED CONTROL DEVICE
Rankin J. Bush, Jeannette, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application June 2, 1937, Serial No. 145,984
17 Claims. (Cl. 303—21)



1. An inertia device comprising a rotary member, a rotary inertia element, and means for causing the inertia element to be rotated according to the rotation of the said rotary member, said last means including means having a certain normal stationary position as long as the said rotary member and inertia element rotate at the same speed and so arranged as to be moved out of its

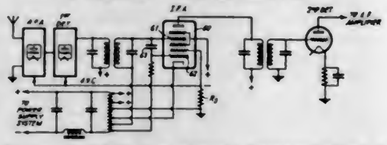
said normal stationary position only when the said rotary member and inertia element tend to rotate at different speeds.

2,159,779
CONVEYER SYSTEM FOR PRESSES
Harold D. Cavin, Bellingham, Wash.
Application November 24, 1937, Serial No. 176,305
5 Claims. (Cl. 100—50)



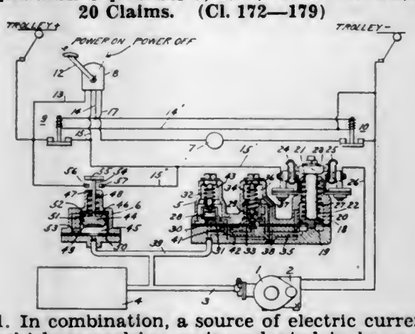
5. In combination, a press having opposed upper and lower platens between which material is to be compressed, a pair of rollers one disposed at each end of said lower platen, means for supporting said rollers, an endless conveyer belt supported on said rollers normally in spaced relation to said lower platen to allow material supported on the belt to be readily moved transversely of said lower platen and yieldable means allowing said belt to move downwardly when material thereon is pressed between said platens.

2,159,780
AUTOMATIC VOLUME CONTROL
Kenneth A. Chittick, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application December 16, 1933, Serial No. 702,674. Divided and this application November 9, 1936, Serial No. 109,873
3 Claims. (Cl. 179—171)



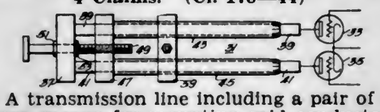
2. In combination, a signal transmission tube, a tube having an amplifier section and a rectifier section, said rectifier section including a pair of input electrodes and an independent output electrode, means impressing radio frequency signals from the transmission tube on the input electrodes of both sections, an impedance in the output electrode circuit of the rectifier section, means impressing the direct current voltage developed across the impedance by rectified signal current upon the transmission tube as a gain control voltage, and means biasing the rectifier section input electrodes to prevent current flow through the impedance in the absence of signals, the electrodes of the two sections being in a common electron stream between a common cathode and the amplifier section output electrode.

2,159,781
COMPRESSOR CONTROL SWITCH
John F. Craig, Upper Montclair, N. J., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application September 4, 1937, Serial No. 162,555
20 Claims. (Cl. 172—179)



1. In combination, a source of electric current, a vehicle propulsion motor adapted to be operated by current from said source, a ground circuit breaker in the ground connection of said motor, a power circuit breaker in the connection between said source and motor, a power controller element having a power-on position for effecting closure of both of said circuit breakers and a power-off position for effecting opening of said circuit breakers, a fluid compressor, an electric motor for said compressor, a high pressure governor device for said compressor motor which controls a circuit from the compressor motor to the circuit connecting the power circuit breaker with said propulsion motor, and a low pressure governor device controlling a circuit from said source to said compressor motor which shunts the power circuit breaker.

2,159,782
HIGH FREQUENCY TANK CIRCUITS
James W. Conklin, Audubon, and Robert Serrell, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application July 24, 1937, Serial No. 155,372
4 Claims. (Cl. 178—44)

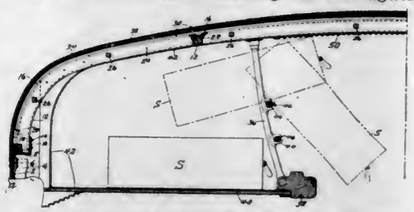


1. A transmission line including a pair of conductors, means for mounting said conductors in spaced and parallel relation, a pair of hollow conductors adjustably mounted over said parallel conductors, semipermanent means for efficiently shorting said hollow conductors at substantially the points of maximum high frequency current flow and to provide a coarse adjustment of said line, means for effectively slidably contacting said parallel and hollow conductors at substantially the points of minimum high frequency current flow, means for adjusting the position of said hollow conductors on said parallel conductors to provide a vernier adjustment of said line.

2,159,783
VEHICLE ROOF CONSTRUCTION
Frederick E. Dayes, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y., a corporation of Delaware
Application February 16, 1937, Serial No. 125,974
2 Claims. (Cl. 296—137)

1. In a roofed vehicle the combination of

spaced side walls, a side plate secured to each side wall adjacent the upper edge thereof, a plurality of carlines connected at their ends to the side plates, roofing above the carlines and connected thereto to form a roof structure, a baggage rack carried in part by the roof structure adjacent each side portion thereof, and a corrugated metal plate having its corrugations



extending longitudinally of the vehicles and secured to the under side of the carlines between the baggage racks, the valleys of said plate being painted, while the crests thereof remain unpainted thereby presenting an unpainted metallic surface against which baggage may contact during insertion or removal from the racks without injuring the painted surfaces.

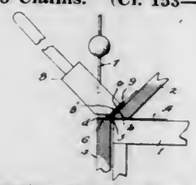
2,159,784

APPARATUS FOR USE IN FORMING PITTSBURGH JOINTS

George Edwin Demmin, Peoria, Ill.

Application July 28, 1937, Serial No. 156,096

8 Claims. (Cl. 153—16)



1. In apparatus for bending sheet metal in forming "Pittsburgh joints" including a support to receive the work, means to clamp the work upon said support, including a rail to receive upon a face thereof part of the work, an apron hingedly mounted adjacent the support, and an abutment member hingedly mounted adjacent the face of the said rail adapted to swing between two positions with respect thereto and having a face adapted to lie normally substantially at right angles to the plane of said face of the rail, said apron in its hinging action adapted to bend the work toward and against the named faces of the said abutment member and said rail and together with said work fit into the angle made by said faces, said abutment member in a hinging action thereof adapted upon removal of the apron from said angle to engage the work and double said work upon itself.

2,159,785

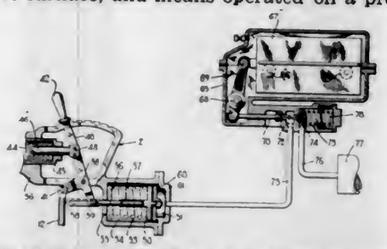
FUEL CONTROL SYSTEM

Sidney G. Down, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application June 30, 1937, Serial No. 151,107

6 Claims. (Cl. 105—48)

5. In a fuel supply system for the furnace of a locomotive boiler, a member movable between spaced positions for varying the rate of supply of fuel to the furnace, yielding resistance means urging said member to the position to permit the supply of fuel to the furnace at a rapid rate, means subject to and operated on an increase in the pressure of the steam in the boiler for moving said member against said yielding resistance means to thereby reduce the rate of supply of fuel to the furnace, and means operated on a predetermined increase in the rate of retardation of the locomotive for also moving said member against said yielding resistance means and thereby reducing the rate of supply of fuel to the furnace.



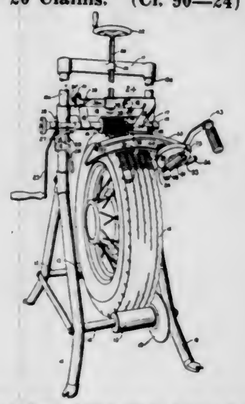
2,159,786

SUPPORT

William F. Errig, Philadelphia, Pa., and Edward S. De Hart, Collingswood, N. J., assignors to Peco Manufacturing Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application March 25, 1937, Serial No. 133,007

20 Claims. (Cl. 90—24)



1. In apparatus of the class comprising a frame for rotatably supporting a tire, means for rotating said tire and a support pivotally mounted on said frame, the combination therewith of track means having a plurality of bearing surfaces mounted on said support, a carriage movably supported by said track means comprising a pair of pivotally connected members, a roller on each of said members engaging one of said surfaces, a second roller on one of said members intermediate said first-named rollers and engaging the other of said surfaces and means interposed between said members and yieldingly holding said rollers in engagement with said surfaces, and a cutting tool mounted on said carriage and adapted to engage said tire for cutting incisions therein.

2,159,787

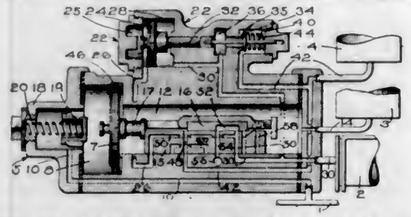
FLUID PRESSURE BRAKE

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application May 29, 1937, Serial No. 145,431

10 Claims. (Cl. 303—46)

1. In a fluid pressure brake equipment, in combination, a brake pipe, a brake cylinder, an auxiliary reservoir, a supplementary reservoir, a valve device subject to the opposing pressures of the fluid in the brake cylinder and of the fluid in a chamber and operative upon an increase in fluid pressure in said chamber for supplying fluid from the supplementary reservoir to the brake cylinder, and valve means subject to the opposing



pressures of the fluid in the brake pipe and of the fluid in the auxiliary reservoir and operative upon a reduction in brake pipe pressure for supplying fluid under pressure from the auxiliary reservoir to the brake cylinder and for also supplying fluid under pressure from the supplementary reservoir to said chamber at the pressure carried in said supplementary reservoir.

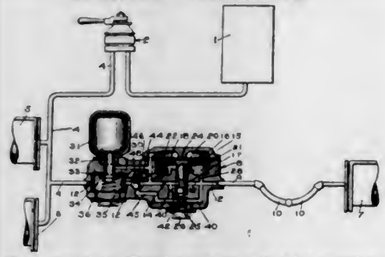
2,159,788

FLUID PRESSURE BRAKE

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application June 2, 1937, Serial No. 145,975

23 Claims. (Cl. 303—84)



1. In a vehicle fluid pressure brake equipment, in combination, a source of fluid under pressure, a brake cylinder, application means for supplying fluid under pressure from said source to a communication through which fluid under pressure may be supplied to the brake cylinder through a restriction, a volume chamber, means for supplying fluid under pressure to said volume chamber at a restricted rate from a point in said communication intermediate said restriction and the application means, and valve means subject to the opposing pressures of the fluid in said volume chamber and of fluid supplied from said communication through an always open passage at a point therein intermediate the restriction and brake cylinder for controlling the flow of fluid through said communication.

2,159,789

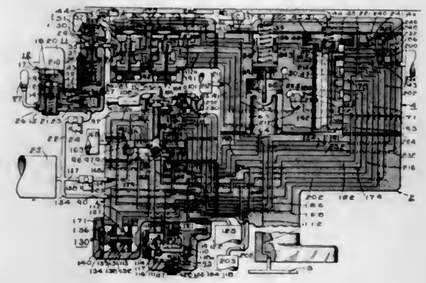
AUTOMATIC TRAIN BRAKE CONTROL

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application June 18, 1937, Serial No. 148,945

32 Claims. (Cl. 303—18)

1. In a fluid pressure brake, in combination, a brake pipe, a reduction in pressure in which is adapted to effect an application of the brakes, train control mechanism automatically operative in response to signal indications to effect a predetermined reduction in brake pipe pressure, means preventing suppression of the operation of said mechanism after a reduction in brake pipe pressure has been initiated thereby, manually operable means for also effecting reductions in brake pipe pressure, and a recapture means responsive to operation of said manually operable means after a reduction in brake pipe pressure has been initiated by automatic operation of the train control mechanism for limiting the degree of reduction in brake pipe pressure effected by said train control mechanism.



2,159,790

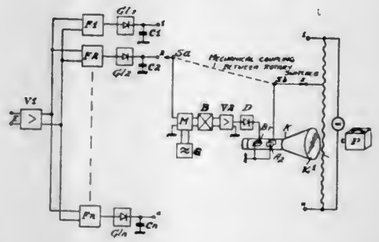
FREQUENCY ANALYZER

Erich Freystedt, Berlin-Siemensstadt, and Fritz Bath, Berlin-Haselhorst, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application August 12, 1936, Serial No. 95,700

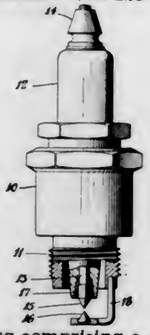
In Germany August 13, 1935

7 Claims. (Cl. 175—183)



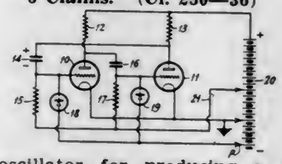
1. A frequency analyzer for direct indication over the entire frequency spectrum to be analyzed having a source of current containing the frequencies of the spectrum, a plurality of filter circuits connected in parallel to said source and dimensioned with respect to their respective constants to divide the entire spectrum into a corresponding plurality of frequency ranges, a rectifier connected to the output end of each filter circuit and a storage condenser connected to each rectifier to be charged by the latter, a cathode ray oscillograph and its associated circuits including a carrier frequency generator, a modulator for said carrier frequency, a band pass filter and a rectifier, and a rotary switch for connecting the charged condensers in continuous rapid succession to said modulator.

2,159,791
SPARK PLUG
Hal F. Fruth, Riverside, Ill., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application April 20, 1937, Serial No. 137,939
11 Claims. (Cl. 123—169)



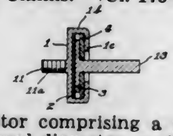
1. A spark plug comprising a pair of discharge electrodes, at least one of said electrodes being composed of refractory ceramic insulating material.

2,159,792
RELAXATION OSCILLATION GENERATOR
Max Geiger, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 2, 1937, Serial No. 145,974
In Germany June 3, 1936
6 Claims. (Cl. 250—36)



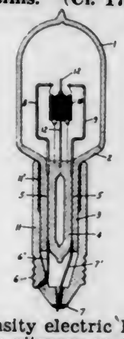
1. An oscillator for producing a saw-tooth wave form comprising a pair of electron discharge devices each of which includes a cathode, a control electrode, and an anode, means including anode resistances for maintaining said anodes positive with respect to said cathodes, means including electron storage devices for connecting the anode of each discharge device to the control electrode of the other discharge device, a pair of resistances, means for connecting one end of each resistance to said control electrodes, and means for maintaining the other ends of said pair of resistances positive with respect to said cathodes and negative with respect to said anodes.

2,159,793
CAPACITOR
Gustave L. Grundmann, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 5, 1938, Serial No. 183,471
2 Claims. (Cl. 175—41)



1. A capacitor comprising a pair of electrode plates of unequal diameter, an interposed dielectric layer, a pair of electrode leads connected respectively to points substantially in the center of the outwardly facing surfaces of said plates, an insulating washer superimposed on the plate of smaller diameter and through which its lead extends, and an inwardly turned rim on the plate of larger diameter for exerting a clamping force upon said insulating washer.

2,159,794
ELECTRIC LAMP AND SIMILAR DEVICES
Wilhelm Hagen, Berlin, Wolfgang Thouret, Berlin-Wilmersdorf, and Josef Kern, Berlin, Germany, assignors to General Electric Company, a corporation of New York
Application April 22, 1938, Serial No. 203,690
In Germany April 29, 1937
3 Claims. (Cl. 176—38)



1. A high-intensity electric lamp comprising a bulb of high-silica vitreous material containing a light source, a stem of high-silica vitreous material extending outwardly from said bulb and comprising a stem tube and an inner tube extending axially of said stem tube, lead-in conductors of thin refractory metal extending along and fused in said stem between said tubes, and inner lead-in conductors connected to said first-mentioned conductors and to said light source, said inner tube being sealed at both ends and containing a gaseous filling used for creating a pressure in said tube during the sealing-in of said first-mentioned lead-in conductors.

2,159,795
FISHING ROD
Harry H. Harsted, Chicago, Ill., assignor to Gephart Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application May 1, 1937, Serial No. 140,135
5 Claims. (Cl. 43—18)



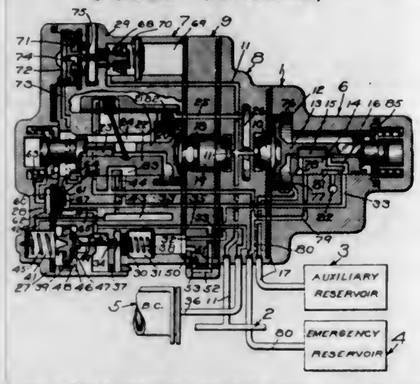
1. A fishing rod embodying a plurality of sections of substantial length, portions of said sections being nested and having co-terminal ends, said sections being secured together against relative movement only at the said ends, the remaining nested portions of said sections being disconnected and free for independent and relative movement, said sections increasing in length from the outside section inwardly.

2,159,796
QUARTZ PIEZOELECTRIC ELEMENT
Henry W. N. Hawk, Woodlynne, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1937, Serial No. 177,291
8 Claims. (Cl. 171—327)



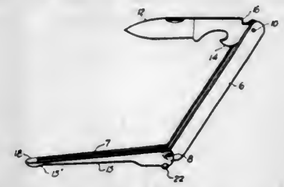
1. A quartz piezo-electric element having a convex electrode surface and an orientation within substantially 1°, for each angle, of a 25° W^n angle, 35° V^n angle crystal, said element being characterized by exhibiting a substantially zero temperature coefficient of frequency when vibrated at a frequency which is three times the fundamental frequency dictated by the maximum thickness of said element.

2,159,797
FLUID PRESSURE BRAKE
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 26, 1938, Serial No. 192,812
5 Claims. (Cl. 303—35)



1. In a fluid pressure brake equipment, in combination, a brake controlling valve device comprising a pipe bracket and emergency valve device and an equalizing valve device removably clamped together, said emergency and equalizing valve devices being operative to supply fluid under pressure to effect an emergency application of the brakes, valve means operative to regulate the flow of fluid supplied by the equalizing and emergency valve devices, means adapted to be interposed between said pipe bracket and emergency valve device comprising fluid pressure control means through which brake applying fluid supplied by said equalizing and emergency valve devices may flow without control by said valve means to accelerate the rate of build up in the brake applying fluid, and means selectively operative to render said fluid pressure control means effective or ineffective.

2,159,798
POCKET KNIFE
Elmer Hyatt, Kansas City, Mo.
Application January 13, 1937, Serial No. 120,386
4 Claims. (Cl. 30—160)



3. A folding pocket knife comprising, in combination, a handle element, a blade pivoted to one end of said handle element and provided with a locking shoulder adjacent to its pivot point, and a guard element pivoted to the opposite end of said handle element for guarding the blade when in closed position, said guard element having a slot terminating short of its free end and providing a shoulder for engagement with said blade shoulder for locking the blade in closed position.

2,159,799
BRAKE LEVER CONSTRUCTION
Herbert S. Jandus, Detroit, Mich., and Ray A. Sandberg, Waukegan, Ill., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 3, 1937, Serial No. 134,702
8 Claims. (Cl. 74—537)

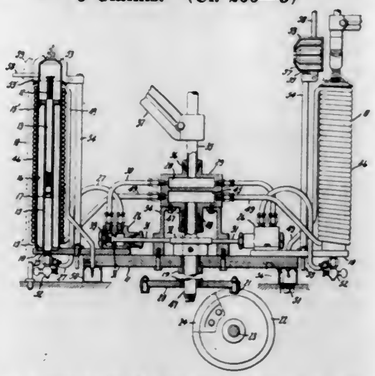


1. An emergency brake lever construction for automotive vehicles including a stamping comprising a lever member having hollow shank and grip portions with the extremity of the grip portion open, a pawl release member working within the hollow shank and grip portions, means cooperating with said release member to latch and unlatch said lever member, spring means normally maintaining said release member in one position, and a stamping comprising an actuating member angular in side elevation and of channel shape in cross section pivoted to said lever member closely adjacent the open end of said grip portion and having a palm engaging manipulating part extending along the grip portion of said lever member and having another part extending substantially transversely of the lever member and constituting a closure for the said open end of said grip portion, and said release member being operably connected to said actuating member inwardly of said another part of said actuating member.

2,159,800
HEAT TREATING APPARATUS

Karl H. Keller, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application April 7, 1938, Serial No. 200,717
6 Claims. (Cl. 266—5)

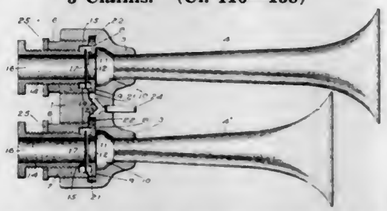


2. In apparatus of the type described, the combination of a turret arranged to be indexed intermittently, a plurality of heads mounted on said turret each comprising a holder for enclosing all but an end of a bundle of wires to be heat treated, a cap mounted adjacent said holder and arranged to be moved over to enclose the exposed end of the bundle of wires protruding therefrom, and means for introducing a reducing gas into said holder, a burner located at an indexing station of said turret and arranged to direct a flame against the exposed end of the bundle of wires in each of said heads, and means for moving the said caps on each of said heads over the said end of the bundle of wires in the adjacent holder when said holder has been indexed away from the station occupied by said burner.

2,159,801
PNEUMATIC HORN

Cecil S. Kelley, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application November 3, 1936, Serial No. 108,924
3 Claims. (Cl. 116—138)

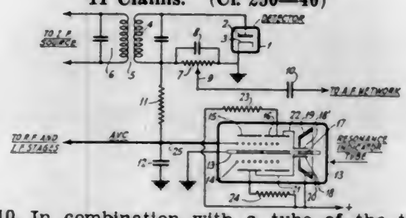


1. A sound producing device comprising a body, a seat member removably mounted in said body and having an annular seat rib surrounding an atmospheric opening, a member adjustably mounted in said seat member and carrying an annular seat rib surrounding an atmospheric opening in alignment with and spaced from the first-named seat rib, a chamber surrounding said seat ribs, and a disk valve interposed between and freely movable into and out of seating engagement alternately with said seat members upon the creation of a partial vacuum in said chamber.

2,159,802
TUNING INDICATOR CIRCUIT

Charles N. Kimball, East Orange, N. J., and Edward W. Wilby, Westerleigh, Staten Island, N. Y., assignors to Radio Corporation of America, a corporation of Delaware

Application November 24, 1936, Serial No. 112,462
Renewed July 19, 1938
11 Claims. (Cl. 250—40)

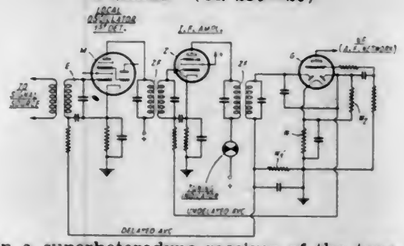


10. In combination with a tube of the type having means providing at least two spaced indication areas, a source of voltage whose magnitude varies over a range, means, responsive to said voltage, for differentially changing the magnitudes of said indication areas over said range.

2,159,803
AUTOMATIC VOLUME CONTROL RECEIVER

Ernst Klotz, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application March 10, 1937, Serial No. 130,082
In Germany March 12, 1936
1 Claim. (Cl. 250—20)



In a superheterodyne receiver of the type including a first detector tube, an intermediate frequency amplifier and an audio network, a rectifier coupled to the amplifier and providing direct current voltage, a gain control circuit impressing the direct voltage on the amplifier to reduce its gain as soon as signals are received, a second rectifier coupled to the amplifier to provide a second direct current voltage, means for delaying the rectification of the second rectifier, means for controlling the first detector gain with the second voltage, and a tuning indicator in the amplifier space current path.

2,159,804
N-NITROARYL POLYHYDROXY ALKYL AMINO COMPOUNDS AND PROCESS OF PREPARING THE SAME

Walter Eastby Lawson and Charles Philip Spaeth, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

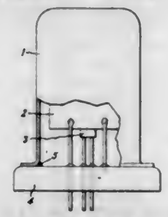
No Drawing. Application November 23, 1937, Serial No. 176,004
13 Claims. (Cl. 260—210)

1. The method of preparing new chemical compounds which comprises reacting, in the presence of a basic condensation agent, a halogenated aromatic hydrocarbon nitrated in at least one position taken from the group consisting of those ortho and para to the halogen group, said halogen group and at least one nitro group being attached to the same benzene ring, with a compound selected from the group consisting of the polyhydroxy alkyl amines containing more than four and less than seven carbon atoms and N-alkyl derivatives of the same.

2,159,805
SEALING MATERIAL FOR VACUUM VESSELS

Kurt Lenz, Berlin-Lichterfelde, and Ernst Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company, a corporation of New York

Application December 2, 1937, Serial No. 177,760
In Germany February 1, 1937
4 Claims. (Cl. 250—27.5)

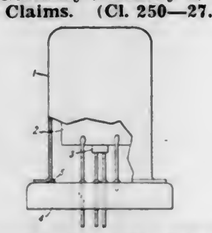


1. An electrical discharge device comprising a sealed vessel enclosing electrode structure which is subject to contamination by metallic vapors metal parts forming constituent elements of the vessel, and a metallic sealing material hermetically joining said parts and at least partially exposed to the interior of the vessel, said material comprising a eutectic alloy of at least one metal of the iron group with a compound composed of a metal of such group and an element of the group which consists of phosphorous and arsenic.

2,159,806
SEALING MATERIAL FOR VACUUM VESSELS

Kurt Lenz, Berlin-Lichterfelde, and Ernst Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company, a corporation of New York

Application December 2, 1937, Serial No. 177,774
In Germany February 1, 1937
5 Claims. (Cl. 250—27.5)

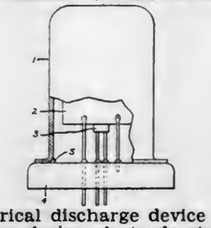


1. An electrical discharge device comprising a sealed vessel enclosing electrode structure which is subject to contamination by metallic vapors, metal parts forming constituent elements of the vessel, and a metallic sealing material hermetically joining the metal parts and at least partially exposed to the interior of the vessel, said sealing material comprising a eutectic alloy of at least one metal of the group which consists of chromium, molybdenum and tungsten.

2,159,807
SEALING MATERIAL FOR VACUUM VESSELS

Kurt Lenz, Berlin-Lichterfelde, and Ernst Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company, a corporation of New York

Application December 2, 1937, Serial No. 177,775
In Germany February 2, 1937
3 Claims. (Cl. 250—27.5)

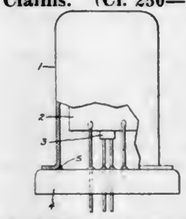


1. An electrical discharge device comprising a sealed vessel enclosing electrode structure which is subject to contamination by metallic vapors, metal parts forming constituent elements of the vessel, and a metallic sealing material hermetically joining the metal parts and at least partially exposed to the interior of the vessel, said material consisting essentially of a eutectic alloy of at least one metal of the iron group with tantalum.

2,159,808
SEALING MATERIAL FOR VACUUM VESSELS

Kurt Lenz, Berlin-Lichterfelde, and Ernst Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company, a corporation of New York

Application December 2, 1937, Serial No. 177,776
In Germany February 3, 1937
5 Claims. (Cl. 250—27.5)



1. An electrical discharge device comprising a sealed vessel enclosing electrode structure which is subject to contamination by metallic vapors, metal parts forming constituent elements of the vessel, and a metallic sealing material hermetically joining the metal parts and at least partially exposed to the interior of the vessel, said sealing material comprising a eutectic alloy of a metal of the iron group with boron.

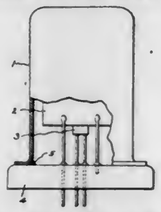
2,159,809
SEALING MATERIAL FOR VACUUM VESSELS

Kurt Lenz, Berlin-Lichterfelde, and Ernst Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company, a corporation of New York

Application December 2, 1937, Serial No. 177,777
In Germany February 3, 1937
4 Claims. (Cl. 250—27.5)

1. An electrical discharge device comprising a sealed vessel enclosing electrode structure which is subject to contamination by metallic vapors, metal parts forming constituent elements of the vessel, and a metallic sealing material hermetically joining said metal parts and at least partially

exposed to the interior of the vessel, said material comprising an alloy of a metal of the iron group with from about 60% to about 80% of a metal



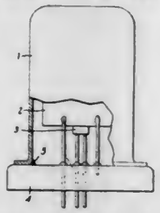
of the group which consists of manganese, palladium, and vanadium, whereby the material is incapable of vaporizing to a sufficient extent to contaminate the said electrode structure.

2,159,810

SEALING MATERIAL FOR VACUUM VESSELS

Kurt Lenz, Berlin-Lichterfelde, and Ernst Woeckel, Berlin-Friedenau, Germany, assignors to General Electric Company, a corporation of New York

Application December 2, 1937, Serial No. 177,778
In Germany February 2, 1937
4 Claims. (Cl. 250—27.5)



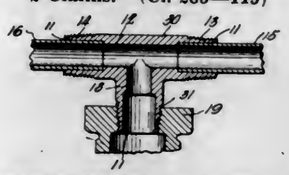
1. An electrical discharge device comprising a sealed vessel enclosing electrode structure which is subject to contamination by metallic vapors, metal parts forming constituent elements of the vessel, and a metallic sealing material hermetically joining said parts and at least partially exposed to the interior of the vessel, said sealing material comprising a eutectic alloy of at least one metal of the iron group with at least one metal of the group comprising silicon, titanium and zirconium.

2,159,811

PIPE FITTING

John J. Leonardo, Philadelphia, Pa., assignor of one-half to Samuel Spector, Philadelphia, Pa.

Application March 18, 1938, Serial No. 196,591
2 Claims. (Cl. 285—115)



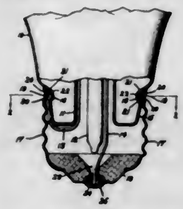
1. An adapter fitting for use either with thin wall copper pipe or conventional iron pipes, said fitting having an internal configuration adapted to receive copper pipe with a sweated connection, and carrying on the external surface conventional pipe thread adapted for use with conventional iron pipe.

2,159,812

ELECTRIC LAMP OR SIMILAR DEVICE

John J. Malloy, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application September 9, 1937, Serial No. 163,086
4 Claims. (Cl. 176—32)



1. An electrical device comprising a bulb having a neck portion and a base comprising a metal shell surrounding said bulb neck, said bulb neck having a plurality of shallow dish-shaped depressions therein and said base shell having a plurality of openings opposite said depressions, and a plurality of rivets of easily fusible material filling said openings and said depressions in said base shell and bulb neck to lock them together.

2,159,813

LATERAL MOTION DEVICE

James C. Maris, Glenolden, Pa.

Application March 27, 1937, Serial No. 133,406
6 Claims. (Cl. 105—80)

2. In combination, a locomotive frame having pedestals, journal boxes vertically movably guided by said pedestals and having lateral clearance therewith, a wheeled axle journalled in said boxes, a lateral motion device comprising a U-shaped member supported by said frame in fixed relation thereto, and means operatively connecting the free ends of said U-shaped member to said journal boxes thereby subjecting said member to restraining torsion upon relative lateral movement between the journal boxes and frame.

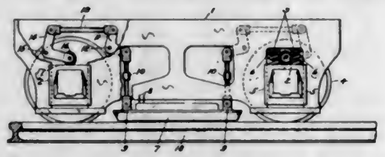
2,159,814

MAGNETIC TRACTION BOOSTER

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application July 16, 1936, Serial No. 90,856
8 Claims. (Cl. 105—77)

1. In combination, a truck side frame member, an axle housing, springs for supporting said side frame member on said housing and for permitting said frame member to move relative to said housing, a magnetic traction booster, and a lever mechanism pivotally carried by said truck side frame member and being adapted to transmit to said axle housing the force of magnetic



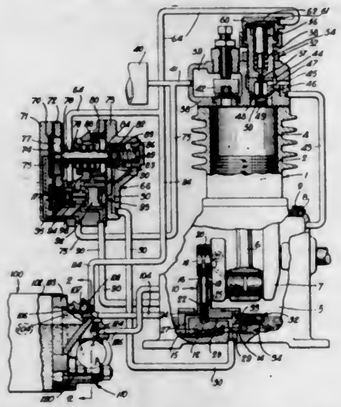
attraction exerted by said booster for a track rail.

2,159,815

COMPRESSOR LUBRICATING DEVICE

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application March 27, 1937, Serial No. 133,368
3 Claims. (Cl. 230—206)



1. In combination, a fluid compressor having a crankcase chamber adapted to contain a quantity of lubricant and having an inlet passage through which fluid to be compressed is drawn from the atmosphere, a communication between said crankcase chamber and said inlet passage, a communication through which fluid may be released from the crankcase chamber to the atmosphere, means to prevent flow of fluid from the atmosphere to the crankcase chamber through said communication, a supplementary lubricant reservoir, a communication through which lubricant may flow from the crankcase chamber to the supplementary lubricant reservoir on a predetermined increase in the level of the lubricant in the crankcase chamber, a communication through which fluid may be released from the upper portion of said reservoir to the atmosphere, and means to prevent flow of fluid from the atmosphere to the reservoir through said communication.

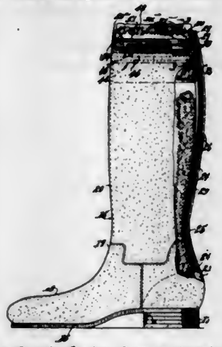
2,159,816

BOOT AND THE LIKE

James T. Murphy, Chicago, Ill.

Application December 4, 1936, Serial No. 114,122
7 Claims. (Cl. 36—50)

4. Securing means for an article of the class described having meeting edges comprising slide type fastener strips attached to said article adjacent said meeting edges and in spaced relation thereto and interiorly of said article, and an actuating slider engaging the fasteners of the fastener strips and disposed on the inside of the



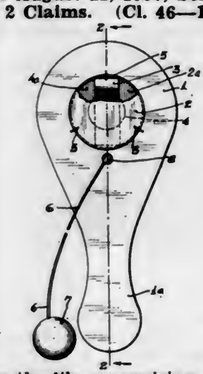
latter and adapted to be actuated only from within the article.

2,159,817

TOY

Frank H. Pierce, New York, N. Y., assignor of seventy per cent to Samuel E. Witt, New York, N. Y.

Application August 11, 1937, Serial No. 158,459
2 Claims. (Cl. 46—191)



1. A toy or the like comprising a paddle having a recess in one side thereof, a disk member located in said recess, a return ball attached to said paddle, said disk member being flexible and having a normally convex face, said face being adapted to assume a concave position and to produce a snapping noise when struck by said ball and being adapted to return to its normal position when said ball rebounds from said face.

2,159,818

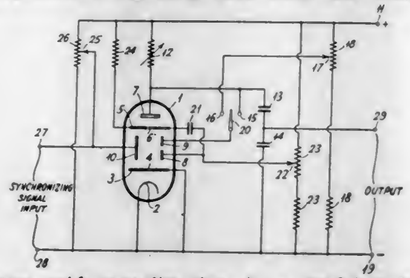
OSCILLATOR

Donald Leopold Plaistowe and David John Fewings, Chelmsford, England, assignors to Radio Corporation of America, a corporation of Delaware

Application October 2, 1937, Serial No. 166,930
In Great Britain November 30, 1936
6 Claims. (Cl. 250—36)

1. An electrical time base circuit comprising a capacity, means for charging said capacity at a predetermined rate, an electron beam valve including two anodes or electron collector electrodes, means for so operating said valve that normally the electron beam therein passes to one of said anodes, means for utilizing a potential

proportional to the instantaneous potential across said capacity for deflecting the electron beam in said valve, and means for utilizing the discharge space to the other anode of said valve for discharging said capacity periodically, the whole arrangement being such that when the voltage



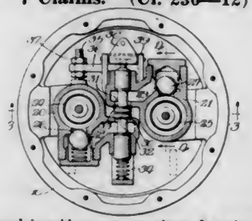
across said capacity rises to a predetermined value the electron beam in the electron beam valve is deflected so as to be incident upon said other anode whereupon the discharge space to said other anode becomes conductive and discharges the capacity.

2,159,819

THERMOSTATIC WATER MIXER

Morton O. Snediker, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois

Application March 13, 1937, Serial No. 130,748
7 Claims. (Cl. 236—12)



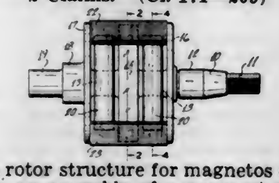
1. In combination, a casing having two inlets and an outlet, a valve body for each inlet, said valve bodies each having a lateral hollow arm terminating in a valve seat, the arms projecting toward and overlapping each other whereby the said valve seats are substantially axially aligned and oppositely disposed, and means for effecting relative rotation of said valve body whereby to vary the spacing between valve seats, a pair of balanced valves with their stems in alignment and their heads in contacting end-to-end relation and cooperating with said seats.

2,159,820

DROP-FORGED ROTOR

Curt F. Reis, Chicago, Ill.

Application January 10, 1938, Serial No. 184,206
2 Claims. (Cl. 171—209)



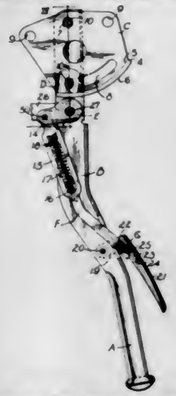
1. In a rotor structure for magnetos of rotating field type, an assembly of permanent magnets of bar form disposed parallel to each other, and substantially transversely of the rotor axis, a pole shoe overlying each end of the magnet assembly, a drop-forged cage or frame for the rotor, formed of a non-magnetic metal and including a stub shaft portion for each end of the rotor, an intermediate shaft portion, a pair of end plates of substantially circular form spaced from each other and located inwardly of the stub shaft portions, a center spacer bar substantially normal to the intermediate shaft portion and between the end plates, the bar magnets and pole shoes being assembled into the cage between the end plates, with the shoes in abutting engagement to the center bar, and elongate holding elements extending through the shoes and end plates and serving to secure the plates and shoes into the cage.

2,159,821

FRICTION TYPE BRAKE LEVER

Ray A. Sandberg and Ernest J. Van Sickel, Waukegan, Ill., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application April 1, 1938, Serial No. 199,348
6 Claims. (Cl. 74—531)



1. In an automotive vehicle emergency brake lever construction, the combination of a stamped attaching or mounting member having a flat fulcrum portion and having a lateral flange struck with concave and convex surfaces concentric with the lever pivot, a lever shaft pivoted to the flat portion of said mounting member, a clutch member pivoted to and rockable on said lever shaft and having a convex face working against the concave face of said flange, a second clutch member pivoted to and rockable on said shaft and working against the convex face of said flange, means for normally rocking said second clutch member into engagement with said flange, the construction being such that the pulling effect of the brake mechanism on the lever shaft will tend to move the shaft in the direction of the pull and thereby roll said second clutch member on said flange to draw said clutch members into tight frictional engagement with the concentric faces of said flange.

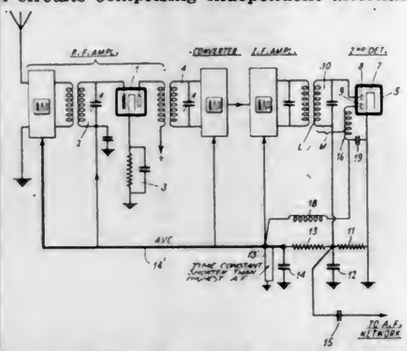
2,159,822

AUTOMATIC NOISE LIMITER CIRCUIT

Stuart W. Seeley, Bayside, Long Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application November 27, 1936, Serial No. 112,955
3 Claims. (Cl. 250—20)

1. In combination, a signal amplifier, a relatively slow acting automatic volume control circuit electrically connected to said amplifier, a relatively quick acting automatic volume control circuit electrically connected with said amplifier, and electrical connections between said two volume control circuits constructed and arranged to maintain the second control circuit inoperative until the alternating current amplitude impressed on the first control circuit exceeds a predetermined magnitude, said two control circuits comprising independent alternating



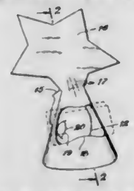
current rectifiers having the amplified signals impressed thereon, and the rectifier of the second control circuit having a load resistor, the rectifier of the first control circuit having a load resistor, the two load resistors of said rectifiers being arranged in series, the electrodes of the second control rectifier being connected across said first control rectifier load resistor, and the latter having a magnitude such as to develop sufficient direct current voltage to provide the sole means for biasing said second rectifier to said inoperative condition.

2,159,823

DEVICE FOR SUPPORTING AND DISPLAYING MERCHANDISE

Nicholas Snelling, Jackson Heights, Long Island, N. Y.

Application December 7, 1936, Serial No. 114,615
3 Claims. (Cl. 248—174)



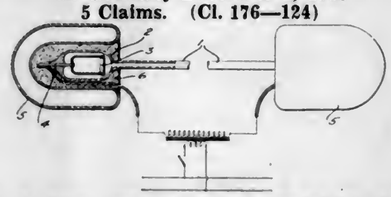
1. A device for supporting articles of merchandise, said device comprising a support formed from a single thin sheet of lightweight material and having substantially the shape of a hollow truncated cone, said support being cut-out at one side thereof intermediate the base and upper end of said cone forming a recess adapted to support a predetermined article of merchandise, the recess in said cone adapted to receive the central portion of said article with the ends thereof extending beyond said recess in spaced relation to the surface of said cone, and the outline of said recess being defined by the intersection of the surface of said article with the surface of said cone whereby the weight of the article supported will be evenly distributed throughout the wall structure of the device.

2,159,824

DISCHARGE DEVICE

Hans J. Spanner, Berlin-Kladow, Germany

Application November 6, 1937, Serial No. 173,061
In Germany December 1, 1936
5 Claims. (Cl. 176—124)



3. A high pressure vapor discharge device which comprises cool electrodes adapted to carry a discharge not dependent on thermionic emission, an envelope enclosing a discharge path between said electrodes, so closely fitted to the discharge as to maintain the walls of the tube above the vapor pressure as hereinafter defined, a filling in said envelope comprising a starting gas and a vaporizable material in amount adapted when vaporized in said container to increase the efficiency of operation and to increase the voltage drop of the discharge, and means for initiating and loading a discharge therein adapted to provide the discharge with a current of the order of milliamperes.

2,159,825

DUST GUARD

Roy R. Stevens, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application April 27, 1937, Serial No. 139,183
3 Claims. (Cl. 286—6)



1. A dust guard for car journal boxes comprising, in combination, a moulded rubber portion having an inner annular sealing lip surrounded by a flat web portion terminating in an outer channeled sealing portion, rigid reenforcing sections disposed on opposite sides of said flat web portion, and means for clamping said rigid members and said web portion together.

2,159,826

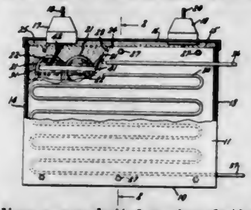
ELECTRIC CAPACITOR

William J. Thacker, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application July 30, 1936, Serial No. 93,394
3 Claims. (Cl. 175—41)

1. In a capacitor including an enclosing container, an electric capacity body disposed in said container and including interleaved layers of conductive foil and spacing material, a clamping device for said body comprising a pair of metal plates and clamping means associated therewith securing the plates respectively in firm engagement with two opposite sides of said body, said body with its said clamping device forming a uni-

tary assembly independent of said container for installation as a unit wholly within the container, said plates having extensive area of engagement with said sides of said body and each of said plates having means fixedly associated there-



with providing a conduit for circulation of cooling medium in heat exchange relation to the plate, and means providing for connection of said conduits with a cooling medium supply external of said container.

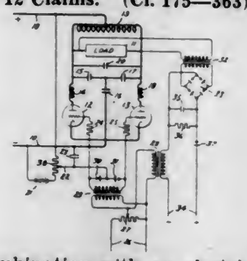
2,159,827

ELECTRIC VALVE CONVERTING SYSTEM

Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 31, 1937, Serial No. 156,735

12 Claims. (Cl. 175—363)



1. In combination with an electric valve converting system for transferring energy between direct and alternating current circuits including a plurality of electric valves, a control circuit for said valves including a source of high frequency periodic potential arranged to tend to simultaneously ignite said valves and means including a source of low frequency periodic potential for alternately retarding the moments of ignition of said valves.

9. The combination with a pair of controlled electric valves each provided with a cathode and a control electrode comprising a pair of oppositely arranged unilaterally conductive devices arranged to be conductive in a direction toward a common junction point, a source of alternating potential connected across the outer terminals of said devices, means connecting each of said control electrodes to the outer terminal of a different one of said devices, and a second source of control potential connected between said cathodes and the common junction between said unilaterally conductive devices.

2,159,828

LOOM

Georg Wiget, Arbon, Switzerland, assignor to Societe Anonyme Adolphe Saurer, Arbon, Switzerland, a corporation of Switzerland

Application April 28, 1938, Serial No. 204,840

In Switzerland July 6, 1935

2 Claims. (Cl. 139—243)

2. A filling-feeder mechanism for looms comprising a rotatable feeder adapted to receive in circular arrangement a plurality of bobbins, a transferrer to transfer each bobbin in succession from the feeder to the loom shuttle, means to rotate the feeder to bring each bobbin in succession into the path of movement of the transferrer, projecting radial members carried by the feeder and forming notches between their ends,



a stud carried by the transferrer and adapted to enter the notches with a close fit, and prevent movement of the feeder in either direction, a bunter, a spring-influenced pivoted pusher operatively connected with the transferrer, and means actuated by the extremities of the projecting members to move the pusher out of alinement with the bunter.

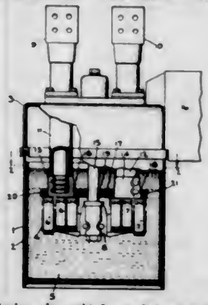
2,159,829

ELECTRIC CIRCUIT BREAKER

Leland S. Hobson, Yeadon, Pa., assignor to General Electric Company, a corporation of New York

Application May 10, 1934, Serial No. 724,864

5 Claims. (Cl. 200—150)



1. An electric circuit breaker of the fluid-break type comprising a casing containing an insulating liquid, relatively movable contact structure immersed in said liquid including a pair of stationary contacts and a movable bridging member, an insulating baffle comprising a substantially flat plate disposed beneath the surface of said liquid and immediately above said stationary contacts, said baffle being horizontally positioned and engaging the side walls of said casing so as to form upper and lower chambers therein, said baffle being substantially continuous between said side walls except for apertures formed therein at opposite edges of said baffle so that a separate aperture is opposite each of said stationary contacts.

2,159,830

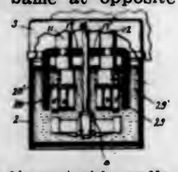
ELECTRIC CIRCUIT BREAKER

Leland S. Hobson, Yeadon, Pa., assignor to General Electric Company, a corporation of New York

Original application May 10, 1934, Serial No. 724,864. Divided and this application November 16, 1938, Serial No. 240,782

5 Claims. (Cl. 200—150)

1. An electric circuit breaker comprising a casing containing an arc-extinguishing liquid, a pair of lead-in conductor studs extending within said casing, stationary arcing contacts mounted at the lower ends of said studs and immersed in said liquid, a movable bridging member coacting with said stationary contacts, and a horizontally disposed plate-like insulating baffle mounted at the lower ends of said studs and above said stationary contacts to form upper and lower chambers in said casing, said baffle at opposite edges being



spaced from the adjacent side walls of said casing to form a slot-like passage at each of said edges between said chambers for venting arc gases at said stationary contacts, said baffle having depending flange-like insulating structure at said opposite edges terminating approximately at a level defined by the lower edges of said stationary arcing contacts so that there is but a liquid-filled space between said bridging member and the adjacent side walls during opening movement of said member.

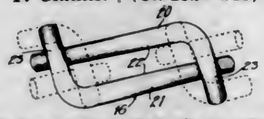
2,159,831

TIRE CHAIN

George Small Schmidt, York, Pa., assignor to American Chain & Cable Company, Inc., New York, N. Y., a corporation of New York

Application July 21, 1938, Serial No. 220,415

17 Claims. (Cl. 152—243)



1. A link for an anti-skid chain consisting of a plurality of double ended members crossing each other at a plurality of points spaced from their ends and welded together, the intermediate portions of said members forming a closed loop and their ends constituting anti-skid devices.

2,159,832

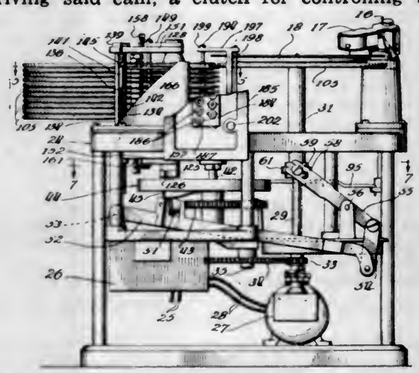
PHONOGRAPH

Paul H. Smyth, Jr., Evanston, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware

Application July 19, 1934, Serial No. 735,936

45 Claims. (Cl. 274—10)

23. In an automatic phonograph, a turntable, a tone arm, a plurality of record carriers movable to and from a position over the turntable, a plurality of selector bars corresponding in number to and at substantially the same elevation as the respective carriers, a selective element adjustable to a plurality of elevations in line with and adapted to engage each of said carriers, said selector bars having portions in the path of movement of and directly controlling the position of said selective element to a given elevation, means for rotating said selective element to move the record carrier selected to a position above the turntable, means for raising said turntable to lift the records from the carriers into playing engagement with the tone arm and for lowering the turntable to deposit the record on its carrier, means for returning the tone arm from the end of its playing position to the beginning of its playing position, a master cam for initiating and governing the said means for rotating the selective element, for raising and lowering the turntable, and for returning the tone arm, means for driving said cam, a clutch for controlling the



driving of said cam, and means for effecting the engagement of the clutch at a predetermined time in the playing of the record to rotate the cam, the latter at a predetermined time in its movement governing the release of the clutch.

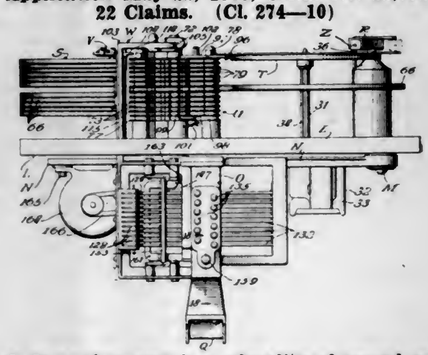
2,159,833

PHONOGRAPH

Paul H. Smyth, Jr., Evanston, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware

Application May 22, 1935, Serial No. 22,701

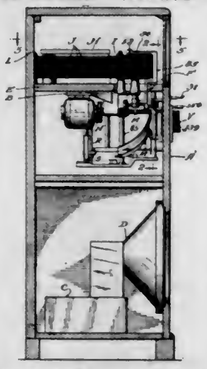
22 Claims. (Cl. 274—10)



8. In a phonograph, a plurality of record carriers; a reciprocable turntable; means for selectively moving said record carriers one at a time into selected position in the path of said reciprocable turntable, including horizontally rotatable cam means having a horizontal cam track therein, a horizontally swinging carriage having a follower movable in said horizontal cam track, and a vertically movable slide bar carried by said swinging carriage and having a selector finger mounted upon the upper end portion thereof and adapted to be moved into registration and engagement with a preselected one of said record carriers; means for elevating said slide bar and said selector finger carried thereby into raised position, including a substantially helical cam track carried by said cam means below said horizontal cam track, and a vertically movable member having a follower engageable in said helical cam track; means for latching said slide bar and the said selector finger carried thereby in raised

position; means carried by said cam means for releasing said latching means from latching engagement with said slide bar to permit said slide bar and said selector finger carried thereby to gravitate whereby said selector finger is in horizontal alignment with a preselected one of said record carriers; and means for limiting the downward movement of said slide bar and said selector finger carried thereby, including a lug on said slide bar and a bank of pivotally mounted and horizontally movable bars selectively and manually movable into the path of movement of said lug.

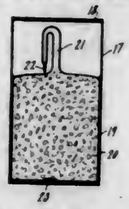
2,159,834
PHONOGRAPH
Paul H. Smyth, Jr., Evanston, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application May 18, 1936, Serial No. 80,251
18 Claims. (Cl. 274—10)



4. A multi-record phonograph comprising a record player, a turntable, a plurality of superposed, pivoted record carriers cooperable with said turntable for moving records to and from playing relation with said record player, a swingable member, a plurality of latch members, one for each record carrier, releasably latching said record carriers in superposed relation and individually operable to release the respective record carriers and to latch the same to said swingable member, a selector reciprocable alongside of said latch members and rockable at the position of any one of said latch members for operating the same, cam means for moving said selector in one direction between the extreme latch members; cam means for permitting the movement of said selector in the opposite direction between the extreme latch members, selector control means for stopping said selector at the position of any one of said latch members, means for rocking said selector to operate that latch member, and means for releasably latching said selector in any position at which it is stopped by said selector control means until the first said cam means begins moving said selector to an extreme latch member.

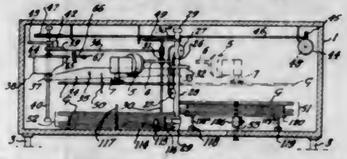
2,159,835
PACKAGE AND PROCESS FOR MAKING THE SAME
Harry F. Waters, New York, N. Y.
Application July 18, 1936, Serial No. 91,364
5 Claims. (Cl. 99—171)

1. In a process for the packaging of foodstuffs comprising, in combination, the steps of inserting a pellet of a gas forming material in a gas-tight flexible container enclosed in an outer container made of relatively rigid material and capable of supporting the walls of the inner container upon expansion thereof due to the formation of gases within the inner container, filling said container with the desired food-stuff, displacing the air in said container with the gas



formed by the vaporization of said pellet, and sealing said container after the air therein has been replaced by the gas and prior to the complete vaporization of said pellet, said inner container being sealed in such a manner that the latter may be expanded upon the formation of gases within the inner container.

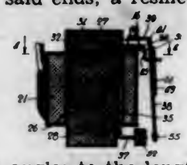
2,159,836
AUTOMATIC PHONOGRAPH
Karl Martin Alm, Stockholm, Sweden
Application November 27, 1937, Serial No. 176,929
In Sweden December 9, 1936
7 Claims. (Cl. 274—10)



6. In an automatic phonograph of the kind described, in combination, a vertical tubular rod, means for introducing the lower end of said rod from above into the central aperture of the uppermost record of a pile of records to be played, resilient flaps spaced by slots and extending in axial direction from the said lower end of the rod, an actuating spindle, means for moving the spindle axially in relation to the said tubular rod to expand the flaps against the inner wall of the said aperture of the uppermost record whereby to grip the latter without gripping the remaining records of the pile, means for moving the rod and the gripped record vertically in relation to the pile of records, means for suspending the gripped record with both sides thereof accessible for reproduction, and means for rotating the tubular rod and the gripped record in suspended position about the centre of the latter for the purpose of reproduction.

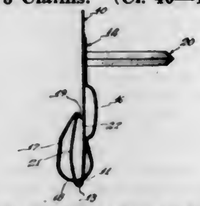
2,159,837
RELAY
Maynard A. Babb, North Bergen, N. J., and Samuel J. A. M. Bagno, New York, N. Y., assignors to Duro Test Corporation, North Bergen, N. J., a corporation of New York
Application December 23, 1938, Serial No. 247,404
16 Claims. (Cl. 200—87)

12. A combined choke and circuit maker comprising a stationary magnetic yoke frame of low reluctance, the magnetic structure of which is interrupted by one or more minute fixed air gaps and is otherwise continuous, an electro-magnetic coil encircling a portion of said frame, a second yoke through said coil extending outward at its ends substantially at right angles to said low reluctance yoke, an armature hinged upon one of said ends, a resilient circuit maker



arm at right angles to the length of said armature, and across the hinged end thereof, said armature having a heel piece for directly engaging and opening said circuit maker upon the attraction of said armature.

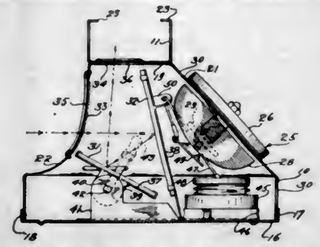
2,159,838
DISPLAY CARD AND HOLDER
Edward C. Berg, Chicago, Ill., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application March 22, 1939, Serial No. 263,534
6 Claims. (Cl. 40—125)



1. A display card and holder comprising a readily attachable and detachable member for holding an article of manufacture, said article comprising a bracket having spaced arms of different lengths connected together at one of each of the ends thereof for supporting a fixture, one of said arms having a projecting portion extending toward the other arm, said readily attachable and detachable member extending between the arms of said bracket and comprising a face portion and a backing portion fixedly connected adjacent one of each of the edges thereof and extending therefrom at different lengths, said connected edges having registering notches therein of substantially the width and for receiving a portion of said bracket, said notches being of a depth such that the remaining distance to the free edge of one of said connected portions is substantially the same as the length of the shortest arm of said bracket from the end connection thereof to and for disposition beneath said projecting portion thereof whereby accidental displacement of said article is prevented when said bracket engages said notches and said projecting portion overlies the free edge of the shorter of said connected portions.

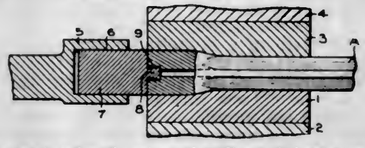
2,159,839
TOY TELEPHONE WITH TELEVISION EFFECT
Harry Bregman, Lorain, Ohio, assignor to The Steel Stamping Company, Lorain, Ohio, a corporation of Ohio
Application March 1, 1937, Serial No. 128,334
3 Claims. (Cl. 46—33)

1. In a toy telephone, a hollow casing having window openings therein, a signal device operable to attract the attention of a nearby person with whom communication is desired, reflecting means in the casing for producing therein an image of said person, a receiver flexibly connected with said casing, means on the casing providing a support for the receiver, one of said window openings



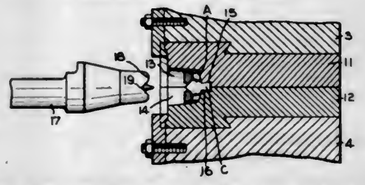
being obstructed when the receiver is in engagement with its support.

2,159,840
DETACHABLE DRILL BIT SHANK SLOTTING DEVICE
Charles Edward Cook, South Porcupine, Ontario, Canada, assignor to International Detachable Bits & Equipment, Limited, Timmins, Ontario, Canada, a corporation of Ontario, Canada
Application September 23, 1937, Serial No. 165,239
1 Claim. (Cl. 76—95)



In a device for forging the diametrical straight walled slot in the end of a detachable drill bit shank into a slot of dovetail cross-section, in combination, means for holding the shank in position, and a reciprocable dolly including a removable head having a diametrical rib of dovetail cross-section insertable into the diametrical straight walled slot in the shank end for forging such straight walled slot into a slot of dovetail cross-section, said head being removable with the shank after the dollying operation and subsequently by relative transverse movement being detachable therefrom.

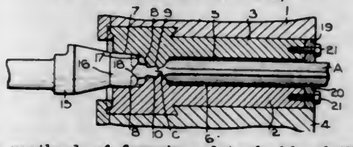
2,159,841
METHOD FOR RECONDITIONING DETACHABLE DRILL BITS
Charles Edward Cook, South Porcupine, Ontario, Canada, assignor to International Detachable Bits & Equipment Limited, Timmins, Ontario, Canada, a corporation of Ontario, Canada
Application September 23, 1937, Serial No. 165,240
2 Claims. (Cl. 76—108)



1. In a method of reconditioning detachable drill bits of the type wherein the bit is provided with the usual cutters and a dovetail tongue for connection to a shank, the step which consists in clamping the bit in a major axial end recess in a clamping die and clamping the dovetail tongue in a minor recess in the die connected to the

major recess, and in one pass by a coacting dolly insertable axially into the major recess of the die forcing the metal of the bit outwardly against the wall of the major recess to resize it, forcing the metal of the dovetail tongue outwardly against the wall of the minor recess to resize such tongue and simultaneously resharpening the cutting edges of the bit.

2,159,842
METHOD OF FABRICATING DETACHABLE DRILL BITS
Charles Edward Cook, South Porcupine, Ontario, Canada, assignor to International Detachable Bits & Equipment, Limited, Timmins, Ontario, Canada, a corporation of Ontario, Canada
Application September 23, 1937, Serial No. 165,242
3 Claims. (Cl. 76—108)



1. A method of forming detachable drill bits which consists in forging the end portion of a heated drill steel stock which has previously had the bit cutters roughly formed on its extremity into the form of a detachable drill bit, simultaneously partially severing the bit formed from the remainder of the stock, dollying the bit to sharpen the cutters and gauge the bit, severing the formed bit completely from the remainder of the stock, and by a subsequent punching operation punching an axial hole through the bit.

2,159,843
PROCESS OF MAKING SODIUM ALUMINATE
Richard Lloyd Davies, Philadelphia, Pa., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application August 18, 1937, Serial No. 159,795
11 Claims. (Cl. 23—52)

1. The process of preparing a solid sodium aluminate product which comprises separately supplying heat to caustic soda containing from about 95% to 100% NaOH to provide a temperature thereof above its melting point and admixing therewith a solid sub-divided alumina hydrate, the reactants being present in such molecular proportions that the Na_2O content is greater than the Al_2O_3 content, and the temperature of the caustic soda being above its liquefying point but below 600° C. to cause a reaction between said reactants and to free the mixture of at least a portion of the water to form a plastic mass, without the application of further heat, during the reaction stirring the mixture, and converting the reaction mass into a solid state.

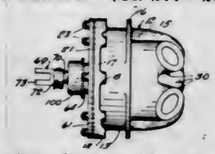
2,159,844
REMOVABLE TOP FOR SOAKING PITS
William T. Dean, Gary, Ind.
Application May 17, 1937, Serial No. 143,226, which is a division of application Serial No. 105,336, October 12, 1936. Divided and this application August 12, 1937, Serial No. 158,820
11 Claims. (Cl. 110—173)

1. A cover for heating furnaces, comprising a series of short sprung arches of insulating fire brick, end and intermediate supporting skews for said fire brick, heat resisting bars for supporting said skews, heat radiating fins extending



from said bars, and means for supporting said skews independently of said fins.

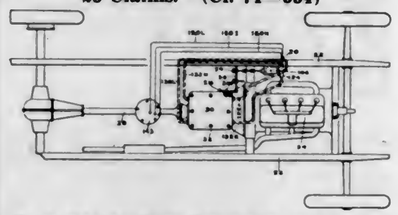
2,159,845
FUEL COCK ASSEMBLY
George T. Downey, Corry, Pa., assignor to Aero Supply Mfg. Co. Inc., Corry, Pa.
Application June 28, 1938, Serial No. 216,412
6 Claims. (Cl. 277—20)



1. In a fuel cock assembly, a housing forming a fuel receiving chamber, a plurality of spaced rearwardly extending fuel intake passages opening at their forward ends into and disposed in radial relation with respect to the axis of said chamber, a rearwardly extending permanently opened fuel outlet passage opening at its forward end into said chamber, tubular extensions opening into the rear ends of said intake passages and adapted to be coupled to fuel feed lines and a tubular extension opening into the rear end of said outlet passage and adapted to be coupled to a fuel supply line leading to a point of consumption, a tubular structure correlated with and arranged in each inlet passage, said structures extending into said chamber and each having a part thereof forming an annular valve seat and a part disposed axially thereof providing a tubular combined guide and support, normally closed fuel supply controlling valve structures, each mounted in, slidably and rotatably supported by and extending forwardly and rearwardly from a tubular structure, each of said valve structures including a spring controlled shiftable valve head for coaction with said seat to close an intake passage, a stem extending forwardly from the head through a tubular guide and an abutment fixed on the forward end of the stem, and a rotatable device journaled in the housing and having a part thereof arranged in said chamber for wiping the abutments to open the valve structures, said housing and device having coacting parts for latching said device selectively during the rotation of the latter.

3. In a fuel cock assembly, a housing provided respectively with a fuel chamber, a plurality of spaced rearwardly extending fuel intake passages opening at their forward ends into and disposed radially with respect to the axis of said chamber, a rearwardly extending permanently opened fuel discharge passage opening at its forward end into said chamber, tubular extensions opening into the rear ends of said intake passages and adapted to be coupled to fuel feed lines and a tubular extension opening into the rear end of said discharge passage and adapted to be coupled to a fuel supply line leading to a point of consumption, a normally closed fuel supply controlling valve structure mounted in each intake passage, extending into said chamber and including a stationary combined support and valve seat forming element and a spring controlled normally inactive axially bodily shiftable rotatable part slidably mounted in said element having a valve head, a valve stem and an abutment, the controlling spring for said part being located between the said abutment and element, and rotatable means operating in said chambers and having a laterally disposed means arranged so as to wipe one face of said abutments adjacent their peripheries for selectively shifting said parts rearwardly to open said structures and for partially rotating said parts simultaneously with the rearward shifting thereof.

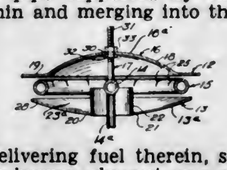
2,159,846
GEAR SHIFTING MEANS
Ralph Gambardella, Riverview, R. I.
Application January 4, 1936, Serial No. 57,465
23 Claims. (Cl. 74—334)



1. In a gear shifting device for vehicles having a motor, a drive shaft, shiftable selective speed gearing connecting said motor and drive shaft, and a clutch pedal to disengage said motor and drive shaft during selective changing of said gearing, a master hydraulic cylinder having a piston operatively connected to said clutch pedal, two gear shifting forks each operatively connected to the gearing to be capable of movement in opposite directions to selectively shift the gearing, four actuating hydraulic cylinders each operatively connected to a shifting fork to respectively actuate said shifting forks in opposite directions, a master valve comprising four discharge ports from said hydraulic cylinder respectively hydraulically connected to each respective hydraulic actuating cylinder, four rods normally closing said ports, and four solenoids each operatively connected to a rod and each being selectively capable on actuation thereof to move a rod to selectively open a port, switch means comprising contact portions individually connected to a selected solenoid in said master valve, and governor means operatively connected to said drive shaft to be rotatably responsive to the speed of said drive shaft operatively connectable to a respective contact portion to selectively complete a circuit through said respective contact portion proportionate to the speed of said drive shaft to actuate a respective valve rod to open a selected port to permit discharge of fluid from said master hydraulic cylinder on depression of said clutch pedal to selectively shift the gearing proportionately to the speed of the drive shaft, means associated with said shifting forks to retain said selected gear in mesh and means connected to said clutch pedal to permit movement of said actuated shifting fork to neutral position at the start of another actuation of said clutch pedal.

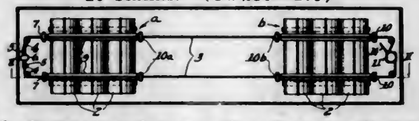
2,159,847
LIQUID FUEL BURNER
Willis B. Garner and Henry R. Carter, Turkey, Tex.
Application January 7, 1938, Serial No. 183,905
4 Claims. (Cl. 158—70)

1. In a liquid fuel burner, a stationary combined fuel trap, lower flame spreader and carrier element formed of a substantially dished shape body portion provided centrally of its bottom with an opening and an integral vertical sleeve registering with said opening and extending above the top of said body portion, said sleeve constituting a support, a horizontally disposed endless tubular burner element arranged above and disposed inwardly with respect to the perimeter of the carrier element, said burner element being formed throughout and centrally of its top with spaced ports, a horizontally disposed fluid fuel distributing pipe supported by the sleeve, arranged within and merging into the burner ele-



ment for delivering fuel therein, said pipe suspending the burner element over and in closed spaced relation to the carrier element and including a depending intake depending through said sleeve, a fuel supply line for said pipe coupled to the lower end of said stem, an upper flame spreader element arranged over and extended in lateral relation with respect to said burner element, and means extended upwardly from said pipe for securing the upper flame spreader element with the latter and over the burner element.

2,159,848
METHOD AND MEANS FOR SECURING HEAVY BODIES DURING SHIPMENT
Vincent J. Gibbons, Columbus, Ohio
Application April 21, 1937, Serial No. 138,227
10 Claims. (Cl. 280—179)

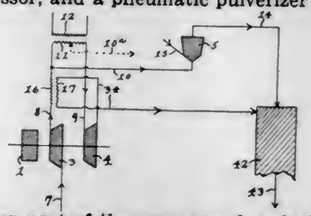


1. Apparatus for securing heavy cylindrical rolls of sheet metal or paper to the floor of a transporting vehicle during shipment comprising a flexible tie member having one end thereof secured to a relatively stationary part of a transporting vehicle, means for training said tie member around the sides and top of cylindrical rolls of metal or paper resting on the vehicle floor whereby to preclude uncontrolled longitudinal and vertical movement of said rolls relative to the floor, a winding appliance carried in connection with a stationary part of said vehicle and to which the other end of said tie member is connected, said winding member serving to place the tie member under tension and maintain the same in taut binding relationship with said rolls when in active operation, resilient means cooperative with said rolls to permit of limited longitudinal movement thereof relative to the vehicle floor while said tie member is maintained in a taut roll-binding state, and an inverted U-shaped bearing frame disposed between the intermediate portions of said tie member and the tops and sides of a group of said rolls.

2,159,849
PLANT FOR PULVERIZING AND BURNING COAL
Benjamin Graemiger, Zurich, Switzerland
Application January 6, 1936, Serial No. 57,822
In Switzerland January 8, 1935
3 Claims. (Cl. 83—93)

1. A pulverizing plant which comprises in combination a compressor compressing a gaseous

operating medium, means for heating the compressed operating medium, a power engine in which a part of the compressed and heated operating medium expands and which drives said compressor, and a pneumatic pulverizer in which



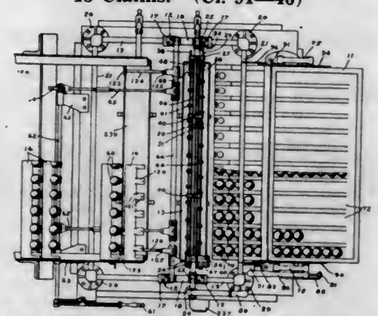
the other part of the compressed and at least in part heated operating medium expands, and means for dividing the heated gas into two parts and for conducting one part to the pulverizer and the other part to the engine.

2,159,850

MACHINE FOR COATING GOLF BALLS OR THE LIKE

Chester W. Haynes, Springfield, Mass., assignor to The Fisk Rubber Corporation, Chicopee Falls, Mass., a corporation of Delaware

Application June 27, 1938, Serial No. 215,975
13 Claims. (Cl. 91—46)



1. A device for coating golf balls or the like which comprises a ball feeding means, a ball coating means and a ball receiving means, a reciprocable gripping mechanism adapted to transport balls successively from said feeding means to the coating means and finally to the ball receiving means, means to reciprocate said gripping mechanism and means for rotating the gripping mechanism through an arc of substantially 180° from the coating position to deliver the balls in reversed position to the receiving means.

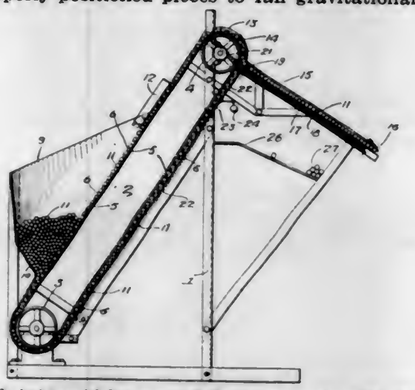
2,159,851

CONTINUOUS FEEDING MECHANISM

James E. Hicks, Newark, Del., assignor to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware

Application December 19, 1936, Serial No. 116,796
12 Claims. (Cl. 198—48)

1. In an apparatus for feeding cylindrical pieces, a conveyor disposed at a predetermined angle, flights on said conveyor for carrying said pieces successively to the top of the conveyor, said flights extending transversely of the conveyor and adapted to carry said pieces in transverse disposition, a hopper adjacent the lower part of said conveyor for feeding said pieces onto said conveyor, and means comprising a pair of flexible convergent guard members extending transversely of the upper part of said conveyor out of the path of the flights for causing improperly positioned pieces to fall gravitationally



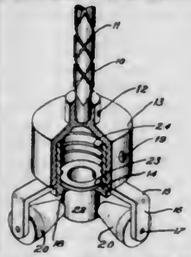
back into said hopper while permitting free passage therebeneath of said flights and pieces properly positioned and carried thereby.

2,159,852

PRESSING APPARATUS FOR ARTICLES SUCH AS VALVE STEMS

Otto F. Homeier, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application August 7, 1937, Serial No. 157,990
5 Claims. (Cl. 154—9)



1. Apparatus for rolling a valve stem into engagement with an article, said apparatus comprising a rotatable head, a pilot mounted thereon for cooperating with the stem of the valve to center the same with respect to the head, and a plurality of rollers mounted on said head and rotatable thereon on axes non-parallel to the axis of rotation of the head.

2,159,853

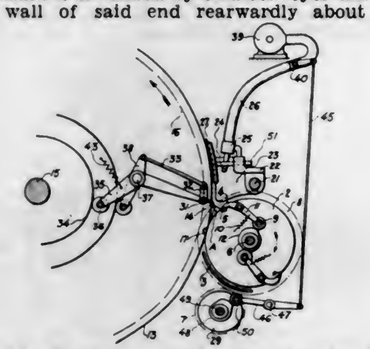
MACHINE FOR MAKING CROSS-BOTTOM PAPER BAGS

Bror Anders Emil Johnson, Alsten, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a Swedish joint-stock company

Application March 11, 1938, Serial No. 195,368
In Sweden March 18, 1937
5 Claims. (Cl. 93—28)

1. In a machine for making cross-bottom paper bags, a continuously movable conveyor, means to feed collapsed tubular bag blanks endwise, said blanks having been placed longitudinally on said conveyor, a clamping member having a straight edge, means to move said clamping member so as to place said straight edge across a bag blank

and press same against said conveyor and move transversely together with said conveyor, a folding member operative in slightly spaced relation to said conveyor to enter said blank end when the blank is advanced by said conveyor and fold one wall of said end rearwardly about said



straight edge upon said clamping member when said clamping member is moved transversely past said folding member, and a nozzle positioned on each side of said folding member to project a jet of air into the corners of the bag blank end defined by said straight edge of said clamping member.

2,159,854

CORROSION-RESISTANT BATTERY TERMINAL

Lionel F. Jourdan and Harold A. Levey, New Orleans, La.

No Drawing. Application July 6, 1937, Serial No. 152,284
9 Claims. (Cl. 136—163)

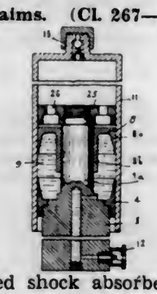
7. An electric storage battery having external metal current-carrying parts protected by a continuous acid-resistant impervious non-tacky adherent coating comprising the product resulting from a plastic mixture of an organic battery sealing base adapted to form from its solution an impervious non-tacky coating, a substantially non-volatile organic acid neutralizing agent of the substituted ammonia class soluble in and compatible with the sealing base, and a volatile organic solvent for said base and neutralizing agent, the latter being present up to about 4% by weight of the mixture.

2,159,855

SHOCK ABSORBER

Eugene Jules Laugaudin, Paris, France

Original application July 17, 1935, Serial No. 31,912. Divided and this application August 11, 1937, Serial No. 158,584. In France July 18, 1934
3 Claims. (Cl. 267—64)



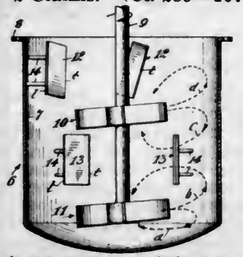
1. An improved shock absorber comprising a cylinder and main piston, a second piston displaceable within said cylinder and adapted to separate a mass of liquid and a mass of gaseous fluid contained in said cylinder, sealing means forming opposed flexible members having tapering scraping skirts spacedly arranged and between which is located the liquid, said scraping skirts being respectively secured with said pistons whereby as a result of pressure solely exerted by the gaseous fluid on the second piston and transmitted to the liquid said scraping skirts are pressed closely against the cylinder, the skirt on the main piston being interposed between the latter and the cylinder, the main piston having an extension interconnecting it with the second piston and upon which extension the second piston and its skirt are displaceable.

2,159,856

MIXING OR DISSOLVING APPARATUS, ETC

Gordon MacLean, Flushing, N. Y., assignor to The Turbo-Mixer Corporation, New York, N. Y., a corporation of New York

Application July 31, 1937, Serial No. 156,664
2 Claims. (Cl. 259—107)



1. In mixing apparatus of the type in which the mix is circulated by a pair of vertically spaced rotating impellers mounted on a substantially vertical shaft, the improvement which comprises: two series of upwardly extending baffles each adjacent to and spaced from the tank wall, the first series being located above the level of the upper impeller and the second series being located between the levels of the two impellers, the baffles of both series having their deflecting faces inclined with respect to the intersecting tank radii, the baffles of the first series being also inclined upwardly and circumferentially in the direction of impeller rotation, and the baffles of the second series being substantially vertical.

2,159,857

REVERSIBLE BELT

Edwin S. Mix, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York

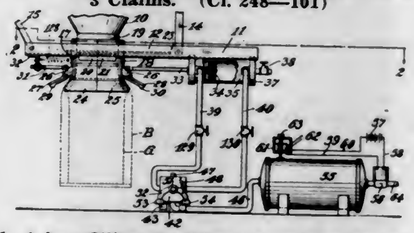
Application December 23, 1938, Serial No. 247,461
3 Claims. (Cl. 241—8)



1. A reversible belt including a buckle, a reversible belt body presenting two different styled faces for wear, a connecting member having a body portion and a terminal portion forming a loop detachably receiving the buckle, said body

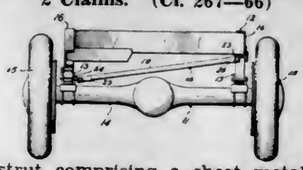
portion and terminal portion having relative movement to open and close the loop to confine the buckle therein and also to permit one end of the belt body to be arranged within the loop of the connecting member, and fastening means securing the terminal portion of the connecting member in its closed position and also securing the belt body to the connecting member, said fastening means permitting reversal of the belt body without changing the position of the buckle when the terminal portion of the connecting member is unfastened and opened.

2,159,858
BAG FILLING DEVICE
Jacob J. Neuman, Jamaica, and Harry G. Neuman, Yorktown Heights, N. Y.
Application August 5, 1937, Serial No. 157,480
3 Claims. (Cl. 248—101)



1. A bag filling machine comprising two movable members for insertion into the mouth of a bag, means for moving said members towards and away from one another to engage the opposite inner walls of a bag to hold the same when the members are moved away from one another and to release the bag when the members are moved towards one another, a clamp pivoted on each of said movable members for engaging the outer side of a bag to press the bag against the member, and means for moving the clamps relatively to said movable members interconnected with the said means for moving the movable members.

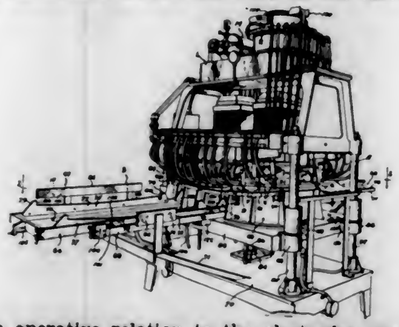
2,159,859
LINK OR STRUT
John M. Nickelsen, Ann Arbor, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application May 9, 1938, Serial No. 206,858
2 Claims. (Cl. 267—66)



1. A strut comprising a sheet metal tubular body having one end flattened to form said end with opposed walls elongated in a direction extending transversely to the axis of the body and provided with aligned openings, and a sheet metal tube in the form of a bushing sleeved in the openings and having the opposite ends integrally secured to the opposed walls.

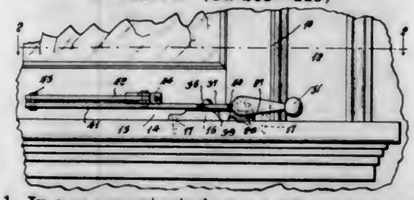
2,159,860
WELDING EQUIPMENT
Henry Thomas Platz, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 23, 1938, Serial No. 209,592
20 Claims. (Cl. 219—4)

1. In welding apparatus, a plurality of welders having electrodes movable into and out of clamping engagement with the work and arranged in an electric circuit, a work supporting carriage movable from a loading station to a position wherein the work is in registration with the electrodes of the welders, means operated by the carriage in timed relation to movement of the carriage to position the work in registration with the electrodes to move the work off the carriage



into operative relation to the electrodes, means operating in timed relation to the last named means to move the electrodes into and out of clamping engagement with the work, and means for closing and opening the circuit in timed relation to movement of the electrodes into and out of clamping engagement with the work.

2,159,861
CLOSURE OPERATOR
Albert J. Poteet, Lakeland, Fla.
Application June 2, 1938, Serial No. 211,456
2 Claims. (Cl. 268—119)

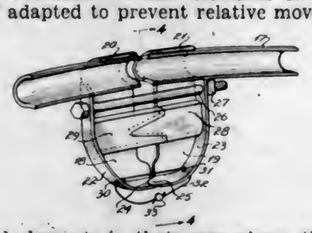


1. In a casement window operator, a base plate provided with an annular groove in its upper face forming a race for a plurality of ball bearings, spaced apertured ears extending upwardly from said base, a worm positioned between said ears and journaled therein, operating means for said worm comprising a shaft having a crank secured to its free end, a gear rotatably mounted on said ball bearings and having its teeth in engagement with said worm, a lever secured to said gear and projecting outwardly therefrom, and a link connecting the free end of said lever and a casement window, said link being disposed at an acute angle to the lever when the window is in a closed position and being of a length less than that of the lever to cause the window to be swung to a fully open position when said operator is actuated by the crank.

2,159,862
BARREL RING
Frederick R. Schaefer, Youngstown, and Raymond W. Emery, Warren, Ohio, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application February 18, 1936, Serial No. 64,526
6 Claims. (Cl. 220—61)

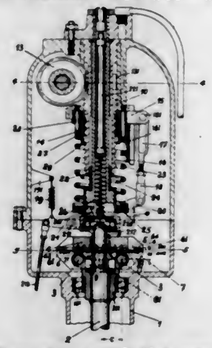
1. In a container of the class described, a split closing and sealing ring adapted to be contracted into closing position, a pair of clamping elements

attached to the ends of said ring extending away from the ring side by side, said elements standing substantially in the same plane, interlocking members attached to said elements on one side thereof adapted to prevent relative movement of



the said elements in their own plane, the interlocking member on each element overlapping the other element, whereby relative movement at right angles to the plane of the elements is also prevented, and means for drawing said clamping elements toward each other.

2,159,863
ENGINE GOVERNOR
Otto Schilling, Stuttgart-Unterturkheim, Germany, assignor to Daimlerbenz Aktiengesellschaft Stuttgart-Unterturkheim, Germany
Application February 21, 1935, Serial No. 7,654
17 Claims. (Cl. 264—3)

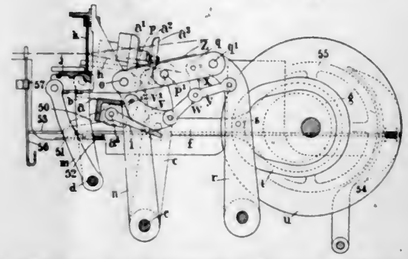


1. A speed governor of the centrifugal type comprising in combination, a driving shaft, a governor sleeve on the driving shaft, governor weights the position of which varies in relation to the speed of the driving shaft, a spring offering an increasing resistance to the displacement of the governor sleeve when the speed of the shaft increases, a second counteracting regulating spring connected immediately with the governor weights offering a decreasing resistance to the displacement of the governor weights when the speed of the shaft increases, and means by which the resistance of one of the two regulating springs acting at the same position of the regulating sleeve can be varied independently.

2,159,864
MANUFACTURE OF COPPER ACETOARSENITE OR SCHWEINFURT GREEN
Marcel Serciron, Dourdan, France
Application September 1, 1936, Serial No. 99,005
In Belgium September 13, 1935
8 Claims. (Cl. 260—438)

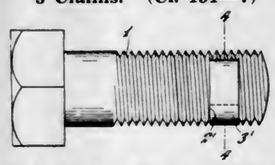
1. A process of manufacturing copper acetoarsenite, which consists in causing arsenous anhydride to act on copper acetate in the presence of ammonium acetate.

2,159,865
BEAT-UP MECHANISM OF LOOMS FOR WEAVING
Oliver Shimwell and Derrick Walter Shimwell, Styles, Shiplake on Thames, England
Application August 29, 1938, Serial No. 227,400
In Great Britain October 5, 1937
22 Claims. (Cl. 139—190)



1. Beat up mechanism for a loom comprising a slay, a reed upon said slay, shuttle boxes separate from said slay at opposite ends thereof, swords carrying said shuttle boxes, means to move said shuttle boxes backwards and forwards and means to move said slay forwards in unison with said shuttle boxes, further forward at an increased rate of speed to the beat-up position, rearward at a speed greater than the rate of rearward movement of said shuttle-boxes until said slay is in line with said shuttle boxes and thereafter rearward in unison therewith.

2,159,866
BOLT AND LIKE EXTERNALLY SCREW-THREADED MEMBERS
Oliver Edwin Simmonds, London, England, assignor to Simmonds Development Corporation Limited, London, England
Application June 21, 1938, Serial No. 214,998
In Great Britain June 28, 1937
3 Claims. (Cl. 151—7)

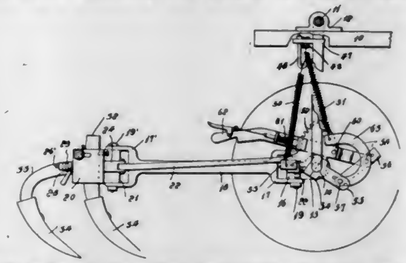


1. A self-locking bolt comprising a screw-threaded shank formed with a recess therein which extends at least substantially completely round an intermediate part of said shank, an inset of elastic material substantially corresponding in shape to said recess housed within said recess, the outer arcuate side of said inset being concentric with the bolt axis and extending beyond the inner edge of the screw threads of the shank, and the recessed part of the shank forming, in cross-section, a curvilinear figure having at least three concave sides whereby the inset is secured in its recess against unintentional lateral withdrawal.

2,159,867
FLOATING PLOW
Walter W. Swearinger, Newport, Ark.
Application August 5, 1937, Serial No. 157,592
6 Claims. (Cl. 97—159)

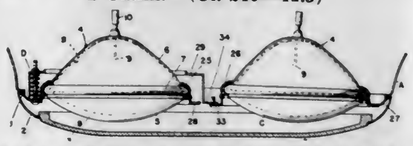
1. A wheeled plow comprising a collar loosely mounted on an axle, a crosshead supporting a plurality of plowshares, a beam connecting said

collar and crosshead, counterbalanced springs normally resisting the weight of said crosshead,



and a lever operably connected to one of said springs to adjust its position and the relative tension of the two springs.

2,159,868
LIGHTING UNIT MOUNTING
Arnold N. Taylor and Norbert P. Worden, Detroit, Mich., assignors to C. M. Hall Lamp Company, Detroit, Mich., a corporation of Michigan
Original application March 15, 1937, Serial No. 131,084. Divided and this application January 3, 1938, Serial No. 183,178
1 Claim. (Cl. 240—41.5)



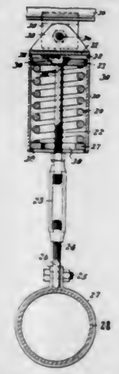
A lamp having a casing provided with an opening, a pair of laterally spaced light units in said casing for projecting light rays through said opening, and a mounting for said units including a frame spanning said opening and rigid with said casing, separate and independent collars for said units, each of said collars having a dished portion embracing and forming a seat for one of said units, one of said dished portions being offset relative to the other to hold the unit carried thereby in a tilted position relative to the other unit, an adjustable connection between one of said collars and said frame permitting said collar and unit carried thereby to be bodily moved relative to and independently of the second collar and unit, and a detachable connection between the second collar and frame adapted to hold the second collar and unit against adjustment relative to the first mentioned collar and unit but permitting said second collar and unit to be removed from or applied to said frame independently of the first mentioned collar and unit.

2,159,869
SOLDERING IRON
Laurence H. Thomas, Birmingham, and Frank Kuhn, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application June 22, 1936, Serial No. 86,685
8 Claims. (Cl. 219—26)



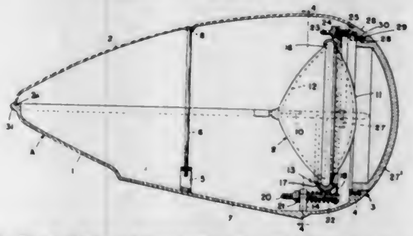
7. In an electrically heated soldering iron, a socket for receiving the soldering tool, a handle for said socket, a thermostatic element anchored in said handle and extending axially through said socket and beyond the same, a hollow tool for engaging said socket and thermostat with the latter arranged within the portion extending beyond the socket, and an electrical heating unit for said socket controlled by said thermostat.

2,159,870
HANGER
Edwin A. Wert, Detroit, Mich., assignor to Blaw-Knox Company, a corporation of New Jersey
Application March 4, 1938, Serial No. 193,943
5 Claims. (Cl. 248—59)



5. A hanger comprising a tubular housing, a suspension for the housing, a disc secured to one end of the housing and having an opening therethrough, a coil spring seated on said disc, a plate resting on said spring, a hanger rod depending through said spring and disc, and cooperating engaging surfaces on said plate and rod permitting relative angular movement therebetween.

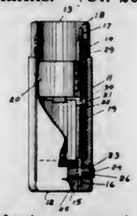
2,159,871
LAMP STRUCTURE
Norbert P. Worden and Charles F. Foley, Detroit, Mich., assignors to C. M. Hall Lamp Company, Detroit, Mich., a corporation of Michigan
Original application March 29, 1937, Serial No. 133,666. Divided and this application January 3, 1938, Serial No. 183,177
6 Claims. (Cl. 240—41.5)



1. In a lamp structure, an ovoid casing split longitudinally substantially along a horizontal plane axially of the lamp and provided at one end with a bezel, the lower section of said casing being attachable to a support, the upper section of said casing being mounted on said lower section and bezel, a light unit in said casing, and a mounting for said unit including a lug on the lower section of said casing, a supporting ring in the casing adjacent said lug and bezel, a seat

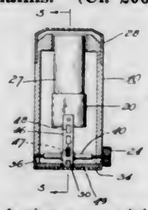
for said unit carried by said ring, and means adjustably connecting said ring to said lug and bezel.

2,159,872
LIPSTICK DEVICE
James L. Younghusband, Chicago, Ill.
Application May 27, 1938, Serial No. 210,385
3 Claims. (Cl. 206—56)



1. A lipstick device comprising a symmetrical body member having a hollow interior rectangular in cross section, a round lipstick cup centrally positioned in said hollow interior so as to leave vacant corners between said cup and the inner walls of said body member, a spiral spindle positioned in one of said corners, said cup and the lipstick carried thereby being unaffected in contour by said spindle, said cup having a collar substantially surrounding said spindle, said collar having a spiral groove adapted to mate with the spiral threads of said spindle, and means for manually rotating said spindle so as to move said cup with its lipstick to substantially the top of said body member and back within said body member.

2,159,873
LIPSTICK DEVICE
James L. Younghusband, Chicago, Ill.
Application November 30, 1938, Serial No. 243,218
4 Claims. (Cl. 206—56)



1. A lipstick device comprising a hollow body member, a cup adapted to hold lipstick movable within said body member, a resilient member positioned within said body member and attached at its upper end to said cup, a turnable member rotatably attached to the walls of said body member adjacent its lower portion, a wheel operable from the exterior of the device attached to said turnable member, a sprocket wheel attached to said turnable member, said resilient member having a plurality of spaced openings, said resilient member extending down to and around said sprocket wheel so that the projections on the sprocket wheel fit within said openings, said resilient member continuing on upwardly on the opposite side of said body member, said exterior wheel adapted upon being turned in one direction to turn the turnable member with its attached sprocket wheel so that the projections in the sprocket wheel fitting into the openings in the resilient member will move the resilient member so that said resilient member will project the cup with its lipstick to substantially the top of the body member for use, said exterior wheel adapted upon being turned in the opposite direction to turn the turnable member and its sprocket so as to move the resilient member and cause it to pull the cup with its lipstick down within the body member for storage during nonuse, and closures for the open ends of the body member.

2,159,874
RATTLE
Arthur Zadek, New York, N. Y.
Application November 5, 1938, Serial No. 239,139
1 Claim. (Cl. 46—193)



In a nursery rattle, a flexible chain, a plurality of flat, centrally perforated disks threaded on said chain, and a plurality of separate cylindrical elements threaded loosely on said chain and interposed between adjacent disks, said cylindrical elements having a radius approximately one-third that of said disks and a length approximately equal to the radius of said disks.

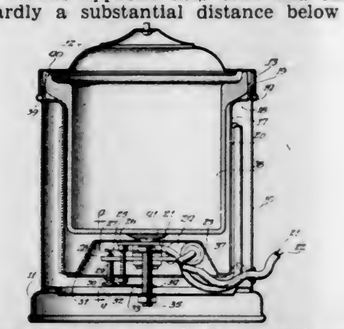
2,159,875
METHOD OF PRODUCING WASH-FAST SIZED FABRICS RESISTANT TO SHRINKAGE
Kaspar Zwicky and Friedrich Brunner, Herisau, Switzerland, assignors to the firm Aktiengesellschaft Cilander, Herisau, Switzerland
No Drawing. Application March 12, 1936, Serial No. 68,540. In Germany January 28, 1936
6 Claims. (Cl. 91—70)

1. The method of sizing fabric to render it resistant to shrinkage and fast to washing without altering its color or imparting odor essentially consisting in forming a partially condensed artificial resin which is colorless and odorless when fully condensed by mixing acetone and formaline substantially in the proportions of one part acetone to five parts formaline of 40% concentration in the presence of an alkaline catalyzer, impregnating a fabric with the partially condensed mixture, and completely condensing the resin in the fabric so as to be fast to washing.

2,159,876
ELECTRICALLY HEATED CONTAINER
Franklin R. Lacy, Jr., Chicago, Ill., assignor to Lacy Products Corp., Chicago, Ill., a corporation of Illinois
Application April 12, 1937, Serial No. 136,247
3 Claims. (Cl. 219—43)

1. A warming device for warming foods and the like, said warming device comprising an outer shell, a casing within the shell and spaced therefrom to provide an enclosure between said shell and said casing, an electrical heating element mounted within said enclosure, a bowl for containing substance or the like, said bowl being adapted to be arranged within said shell and casing and having its bottom wall spaced a substantial distance from the lower portions of said shell and said casing, a control chamber formed within said casing and spaced from the casing and having upwardly converging walls, said control

chamber containing a thermostatic control element for constantly controlling the temperature of a mass of substance in the bowl and for controlling said temperature in accordance with a predetermined value, said chamber being below the bowl and spaced therefrom, and said heating element being arranged in said housing so that it resides opposite said bowl and extends downwardly a substantial distance below said



bowl and being arranged about said control chamber whereby the thermostatic control chamber as well as the bottom of the bowl is subjected to substantially direct heating by the heating unit to maintain an accurate control of temperature within the device, and compression spring means arranged in the space below the bowl between the thermostatic control chamber and the bottom portion of the bowl.

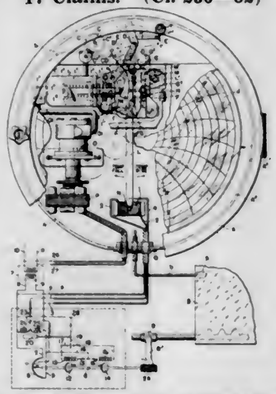
2,159,877

MEASURING AND CONTROL APPARATUS

Coleman B. Moore, Carroll Park, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 1, 1936, Serial No. 82,851

17 Claims. (Cl. 236—82)



11. A control instrument combination comprising, a member, means responsive to variations in a condition for deflecting said member in accordance with said variations, of a fluid pressure device having a pressure chamber and an actuating part moving in one direction or the other as the pressure in said chamber is increased and decreased, an adjustable valve adapted to increase or decrease said pressure on adjustment in one direction or the other, a valve adjusting lever, a fulcrum lever on which said adjusting lever is pivotally supported, an operative connection between said adjusting lever and member whereby a deflection of the latter adjusts said adjusting lever relative to said fulcrum lever and thereby effects an initial valve adjustment, an adjustable fulcrum support for said fulcrum lever, an operative connection between said fulcrum lever and movable part through which on a change in said pressure produced by said initial valve adjustment, said part adjusts said fulcrum lever to effect a second valve adjustment opposite in direction to said initial adjustment and means acting in slow response to said change in said pressure to adjust said support in the direction to effect a third valve adjustment in the same direction as said initial adjustment.

2,159,878

PROCESS FOR THE RECOVERY OF MAGNESIUM

Philipp Balz, Bitterfeld, Germany, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware

No Drawing. Application November 28, 1936, Serial No. 113,253. In Germany December 4, 1935

4 Claims. (Cl. 204—19)

1. A process for the recovery of magnesium which comprises subjecting a fused anhydrous melt including magnesium fluoride and magnesium chloride in proportions approximately corresponding to the eutectic at temperatures between about 600° C. and about 800° C. to electrolysis with a voltage below the dissociation voltage of anhydrous magnesium chloride, but not below the dissociation voltage of magnesium fluoride at the operating temperature, while supplying magnesium oxide to said melt.

2,159,879

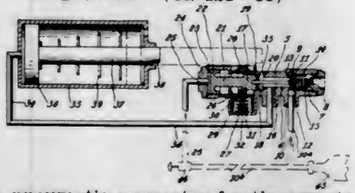
PNEUMATIC CONTROL APPARATUS

Albert Dewandre, Brussels, Belgium, assignor to Servo-Frein Dewandre Société Anonyme, Liége, Belgium

Application February 4, 1937, Serial No. 124,096

In France February 7, 1936

1 Claim. (Cl. 121—38)



In a pneumatic apparatus for the remote control of the displacement of a mechanical member by means of an auxiliary driving apparatus, in combination with a source of pneumatic fluid, a cylinder for the said auxiliary driving apparatus, a piston in said cylinder, a fluid distributor, valves in the said distributor for being displaced against the opposing action of resilient means and for controlling the communication of the said auxiliary driving apparatus with the source of fluid and with the atmosphere, a driving rod for said valves, a groove provided in said driving rod, a piston integral with the said driving rod for sliding in a cylinder provided at the said distributor, a remote manually controlled distributor to open the connection between the last said cylinder and the source of fluid, a bolt subjected to the opposing action of a spring and located transversely with respect to the said driving rod for automatically engaging the groove provided in the latter when the said valves are brought into their position for delivery of fluid to the said auxiliary driving apparatus, a piston integral with the said bolt, a cylinder integral with the distributor and having the last said piston slidably mounted therein, an aperture provided at the predetermined point of the cylindrical wall of the auxiliary driving apparatus, a conduit opening into the said aperture to connect the said auxiliary motor to the last said cylinder for opening the communication of the latter with the fluid delivered into the cylinder of the auxiliary driving apparatus and for automatically disengaging the said bolt when the piston of the said auxiliary driving apparatus has effected a predetermined displacement and uncovers the said aperture.

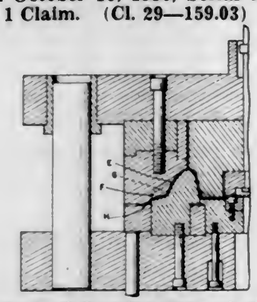
2,159,880

METHOD OF MAKING A VEHICLE WHEEL

Edwin A. Bierwirth and Herman J. Kienle, Detroit, Mich., assignors to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application October 16, 1936, Serial No. 106,024

1 Claim. (Cl. 29—159.03)



In a method of forming pressed sheet metal wheel centers, the steps of dishing a circular sheet metal blank to form a central portion and peripheral portion in spaced parallel planes, reversely dishing the peripheral portion, re-pressing the reversely dished portion to form therein a circular series of spaced pockets with intermediate radially extending spoke portions and with a surrounding radially outwardly extending peripheral flange, the metal of said flange being to some extent drawn radially inward opposite said pocket portions to form an irregular or scalloped edge and the radial cross section of said flange resisting and limiting said movement, trimming said flange to remove the irregular or scalloped edge portion and turning said flange to be parallel to the central axis.

2,159,881

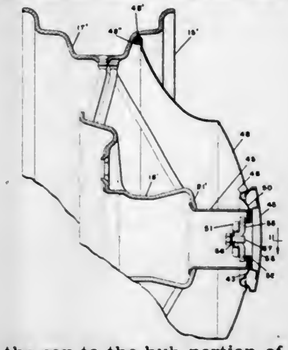
WHEEL COVER

William N. Booth, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application November 21, 1934, Serial No. 754,170

7 Claims. (Cl. 301—37)

1. The combination with a vehicle wheel having a rim and a hub portion, of a centrally apertured cover plate for the front side of the wheel having a peripheral portion engaging the front side of the rim and having a portion spaced radially outwardly from the marginal edges of the central opening engageable with the front side of the hub, said cover plate also having the marginal edge portions of the aperture spaced in advance of the front side of the hub portion, a hub cap having an outwardly extending portion engageable with the front side of the portion of the cover plate spaced in advance of the hub and having another portion extending through the central aperture in the cover plate, and means for



securing the cap to the hub portion of the wheel and for tensioning the marginal edge portions of the aperture in the cover plate to clamp said cover plate to the front side of the hub.

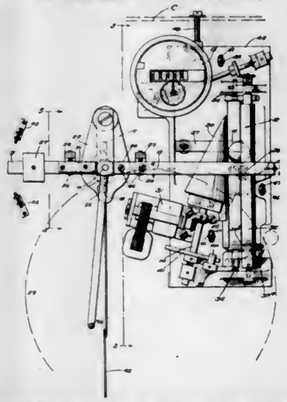
2,159,882

INTEGRATOR

Moro M. Borden, Philadelphia, Pa., assignor to Simplex Valve and Meter Company, Philadelphia, Pa., a corporation of Delaware

Application June 19, 1934, Serial No. 731,359

11 Claims. (Cl. 234—2)



5. In mechanism of the type described, a shiftable arm, a meter, a yieldable controlling connection between the meter and arm permitting the arm to be maintained stationary during continued operation of the meter, a friction type transmission including driving and driven elements and a shiftable element to variably connect said driving and driven elements, said arm operatively engaging the shiftable element to shift the same, and means to intermittently render the shiftable element operative to connect the driving and driven elements and maintaining the shiftable element against shifting by said arm when in its connecting position.

2,159,883

ADJUSTABLE BED

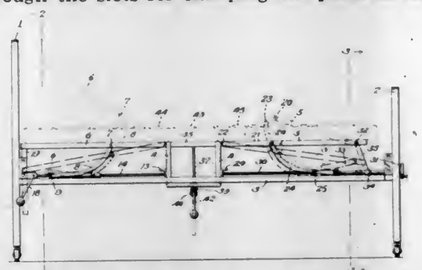
Ollie C. Caldwell, Lisbon, Ohio

Application February 19, 1936, Serial No. 64,683

1 Claim. (Cl. 5—66)

An adjustable bed including a rectangular

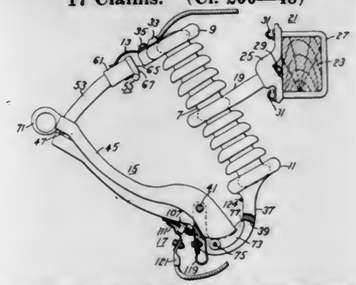
frame, a U-shaped frame member mounted upon the rectangular frame intermediate the ends thereof and extending upward therefrom, a head rest hinged at one end to the upper end of one leg of the U-shaped frame member, slotted posts carried by the rectangular frame for supporting the free end of the head rest, bolts located through the slots for clamping the posts in adjusted position to the rectangular frame, a foot rest hinged at one end to the upper end of the other leg of the U-shaped member, means for independently swinging the head rest and the foot rest above and below the horizontal, a vertically movable pedestal frame within the U-shaped frame member, and means for adjusting the pedestal frame above and below the top of the U-shaped frame member.



2,159,884
ELECTRICAL SWITCH

Herbert J. Crabbs, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 30, 1937, Serial No. 182,495
17 Claims. (Cl. 200—48)



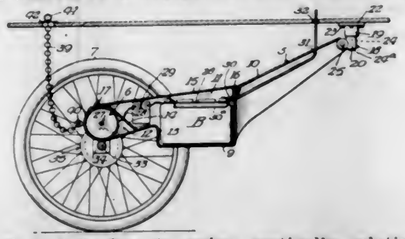
1. In an electrical switch, a stationary contact, switch means for opening and closing the circuit comprising an arm carrying a movable contact and a second arm carrying an arc extinguishing device, both of said arms being mounted for swinging movement about the same axis to open and to closed circuit position, said contact carrying arm being movable relative to said second arm; and actuating means operable during a circuit opening operation to first cause opening movement of said contact carrying arm relative to said second arm and to then cause movement of said second arm to open circuit position away from said stationary contact member.

2,159,885
BATTERY CHARGING APPARATUS

Jasper F. Cullin, Detroit, Mich., assignor, by direct and mesne assignments, to Lou Mervis, Chicago, Ill.

Application September 26, 1936, Serial No. 102,650
1 Claim. (Cl. 171—313)

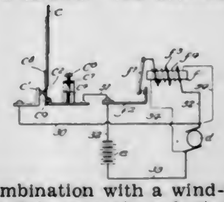
In combination with a vehicle having carrying wheels for supporting it and equipped with a storage battery, an apparatus for charging the battery comprising a generator connected to supply current to the battery, an arm with compartments therein for the battery and the generator, disposed beneath and extending lengthwise of the vehicle and connected at the front end thereof to a bracket on the vehicle bottom so that it is free to swing vertically relatively to the vehicle, a wheel on an axle at the rear end of the arm, adapted when said arm is in a lowered position to travel on and be rotated by traction with the road and connected to drive the generator, and readily releasable means including a flexible connection at said rear end of the arm for holding the arm in a raised position out of contact with the road.



2,159,886
WIND PROPELLED GENERATOR

Jasper F. Cullin, Detroit, Mich., assignor, by direct and mesne assignments, of two-thirds to Lou Mervis, Chicago, Ill.

Application September 7, 1937, Serial No. 162,669
2 Claims. (Cl. 290—44)



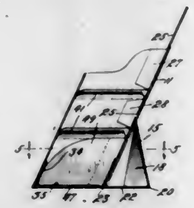
1. The combination with a wind-operable propeller, an electric generator adapted to be driven by the propeller, and a battery adapted to be charged by the generator, of controlling-means operable by wind-pressure, a circuit controlled by said means for connecting the battery to drive the generator to aid in starting the propeller, means for stopping the propeller, and means for conjointly controlling the stop-means and rendering inoperative the means operable by wind-pressure.

2,159,887
DISPLAY BOX

John K. Darragh, Astoria, N. Y., assignor to Elizabeth Heck Darragh, Astoria, N. Y.

Application December 17, 1935, Serial No. 54,822
13 Claims. (Cl. 206—44)

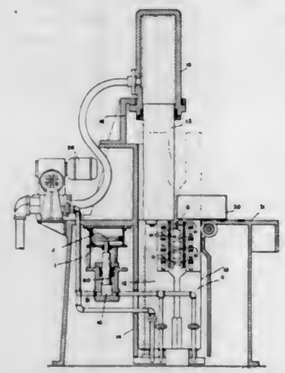
1. A package comprising a tilting display box, an enclosing carton and releasable means for holding the box in the carton, said box having a slanting bottom, said enclosing carton having an open bottom when the box holding means is released and movable upwardly off the box to leave it free of the carton in an upright position of unstable equilibrium, and said box having at its back a supporting device movable into box supporting position by the box weight when the box, released from its carton, seeks a position of stable equilibrium, said supporting device including an easel member having a back support and a bottom section in hinged relation therewith, a sliding member associated with the box back and movable below the box bottom, said bottom section being hingedly attached thereto.



2,159,888
FLASH TRIMMING APPARATUS

Emmett S. Ellis, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application November 2, 1936, Serial No. 108,886
9 Claims. (Cl. 90—38)



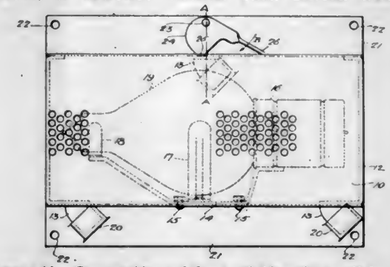
1. In a machine for removing the flash from a surface of a blank having a welded joint, a cutting tool, means for supporting the blank with the flash in a predetermined relation to the cutting tool, means for relatively moving the blank and cutting tool in the direction the flash extends to effect the trimming operation, fluid pressure actuated means for maintaining the cutting edge of the tool into engagement with the flash, means effective upon an increase in thickness of the blank in the region of the weld to move the tool against the action of the fluid pressure an amount corresponding to the variation, and means responsive to the back pressure produced by moving the tool in a direction against the fluid pressure to substantially relieve the back pressure.

2,159,889
MOUNTING FOR FIRE EXTINGUISHERS

Powell Evans, Haverford, Pa.

Application April 18, 1938, Serial No. 202,778
4 Claims. (Cl. 169—26)

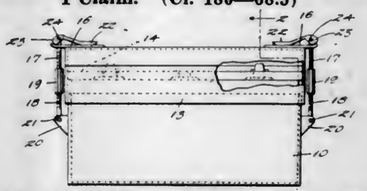
1. An automatic fire extinguisher unit for the purpose described comprising a support embodying a plurality of sockets, a foraminous shield having arms to engage in said sockets, a releasable camming device to engage said shield and maintain said arms in engagement with said sockets, a bracket within said shield and an automatic fire extinguisher of the frangible container type supported by said bracket.



2,159,890
BATTERY CASE FOR AUTOMOBILES

La Verne F. Ferguson, Pecatonica, Ill.

Application June 21, 1938, Serial No. 215,038
1 Claim. (Cl. 180—68.5)



A battery case comprising a container adapted to receive a battery, a cover for the container having a transversely arched top and having a marginal flange adapted to loosely telescope over the container, a pair of oppositely disposed angular brackets, secured to the inner face of said flange and adapted to support the cover upon the top of the battery, turnbuckle members hinged at the lower ends to the container and having the upper ends adapted to project above the top of the cover, bifurcated straps attached to and extending beyond the cover adapted to receive the upper ends of said members, and levers having cam heads pivotally secured to the turnbuckle members and adapted to engage said bifurcated ends of the straps and releasably latch the cover upon the container.

2,159,891
ELECTROMECHANICAL RESONATOR

Alexis Guerbilsky, Paris, France

Application June 19, 1935, Serial No. 27,428
In France June 22, 1934
9 Claims. (Cl. 171—327)



2. A crystal of non-uniform thickness having electrodes adjacent surfaces thereof, and at least one element or mass on said crystal and adapted to suppress spurious frequencies therein.

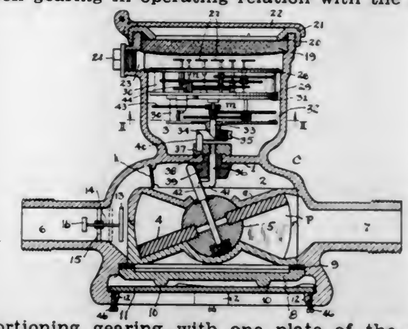
2,159,892
FLUID METER

Frederick W. Hanks, Cleveland, Ohio

Original application February 26, 1935, Serial No. 8,403, which is a division of application Serial No. 660,810, March 15, 1933, now Patent No. 2,029,319, dated February 4, 1936. Divided and this application May 9, 1938, Serial No. 206,831
3 Claims. (Cl. 74—397)

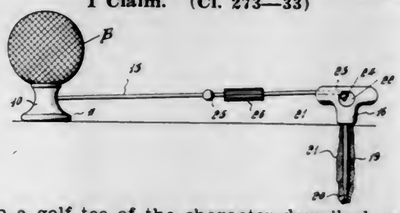
1. In a fluid meter reduction gearing adapted

to be actuated by a fluid-impelled element, bearing plates between which said gearing is supported, proportioning gearing adapted to actuate register pointers on predetermined ratio, bearing plates between which the latter gearing is supported, and means for securing the reduction gearing in operating relation with the pro-



portioning gearing with one plate of the first mentioned bearing plates adjacent one plate of the second mentioned bearing plates, said means including two screws connecting adjacent plates, one of said screws being a pivot point for one of said adjacent plates and the other screw being an adjustment setting means.

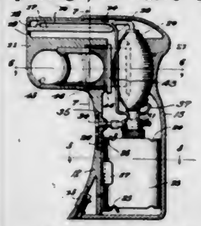
2,159,893
GOLF TEE
Thomas A. Hansen, Hartford, Conn.
Application March 16, 1938, Serial No. 196,251
1 Claim. (Cl. 273—33)



In a golf tee of the character described, a tee of hollow construction having a side opening, a ground anchor spike having a T-head with a lateral opening therein and a passage through one side of the head entering said lateral opening, an elastic cord having one end passed through said side opening in the tee and knotted for retention therein, the other end of the cord passed through the passage in the T-head of the spike and having a knotted end retained in the opening in the spike head and a collar on the cord adapted to receive the pointed end of the spike for protection thereof when the tee is out of use, said collar being slidable on the cord and an abutment carried by the cord for limiting sliding movement thereof relative to the spike head for placing the cord between the collar and spike head under slight tension when the spike is inserted in the collar, said collar being of elastic material for frictional engagement with the spike.

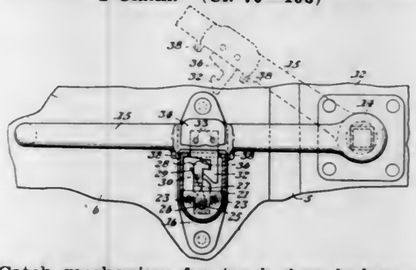
2,159,894
SPRAYER
Posie L. Hines, Roanoke, Va.
Application February 4, 1937, Serial No. 124,119
3 Claims. (Cl. 299—89)

1. A sprayer of the class described comprising a casing, having a nozzle carrying portion and a grip portion depending from the nozzle carrying portion, a pump carried within said casing and a nozzle carried by the nozzle carrying portion, a container in said casing, a cap for said container having an air inlet passage and a liquid outlet passage, a valve for controlling



both passages, tubes leading from said passages communicating with said nozzle and pump respectively, and trigger means for actuating said pump carried by the casing and located in front of the grip portion and under the nozzle carrying portion.

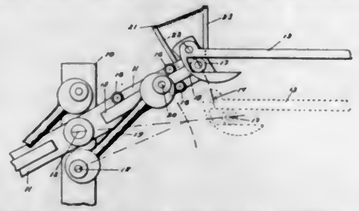
2,159,895
CATCH MECHANISM
Carl R. Hennicke, Cleveland, Ohio, assignor to Eberhard Manufacturing Company, Division of the Eastern Malleable Iron Company, Cleveland, Ohio, a corporation of Connecticut
Application September 12, 1936, Serial No. 100,472
1 Claim. (Cl. 70—196)



Catch mechanism for truck door locks comprising an operating lever mounted for movement in a plane parallel with the door having a depending hook element thereon, a casing mounted on the door having a pivoted hook-like keeper therein, said casing having an opening in the top thereof through which the hook-like member on the operating handle may pass, a spring for resiliently urging the hook-like keeper into position to engage the hook-like member on the handle, the hook-like member and the hook-like keeper having inclined ratchet faces to enable the hook-like member on the handle to cam the hook-like keeper against the resistance of the spring to one side when the hook-like member is being projected into the casing, the spring serving to return the keeper to locking position after the hook-like projection on the handle has entered the casing to its full limit, and a key lock including a lock barrel pivotally supported in the casing for releasably holding the keeper in locked position.

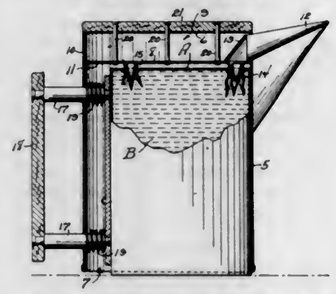
2,159,896
ARTICULATED MECHANISM FOR THE TRANSMISSION OF MOVEMENT
Francisco Roig Ibañez, Mexico, D. F., Mexico
Application December 9, 1937, Serial No. 178,989
In Mexico October 30, 1937
3 Claims. (Cl. 74—25)

1. An articulated mechanism for the transformation of oscillating movements into movements displaceable along horizontal planes, comprising a first lever section mounted for oscillation, a second lever section articulated with the first lever section, a slide movable longitudinally of the first lever section, an element carried by the slide having movable connection with the second lever section, and a connecting rod



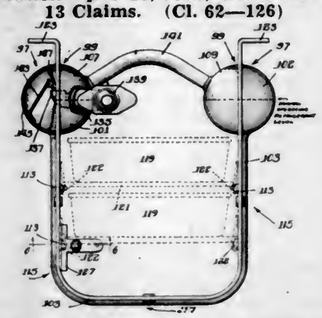
mounted with a predetermined eccentricity to the axis of the first lever section and connected with a predetermined eccentricity to the slide, whereby the slide movable under the operation of the connecting rod will cause the element carried by the slide to maintain the displacement of the second lever section in horizontal planes during oscillation of the first lever section.

2,159,897
CAN HOLDER AND CONTENTS DISPENSER
Edward Karzenski, Riverhead, N. Y.
Application February 1, 1938, Serial No. 188,167
1 Claim. (Cl. 65—61)



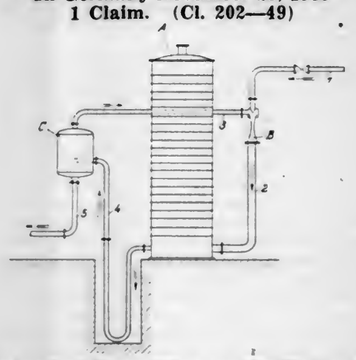
A holder and dispenser of the kind described, comprising a cylindrical body closed at one end and open at the other end, a head arranged within the body spaced from the closed end thereof and having perforations providing an air inlet vent and a pouring hole, a pouring spout built exteriorly on the body and having a hooded inner end fixed to said head and overhanging the pouring hole for directing flow through said hole in the direction of the spout, hollow perforated punching prongs built with the head and the said air inlet vent and said pouring hole, a handle slidably fitting the body between the head and said open end of the body, a clamping bar fitted to said handle interiorly of the body for engaging a can when introduced into the body through the open end thereof, the said body between the head and the closed end thereof having an air inlet for the admission of atmospheric air to the air inlet vent in said head, bolt-like members passed through the closed end of the body and engaged in the said head for reinforcing the said closed end, a covering plate superimposed upon the closed end of said body and fixed by said bolt-like members, and springs fitted with the handle and active for holding the clamping bar under tension inwardly of the body.

2,159,898
REFRIGERATING APPARATUS
Mahlon W. Kenney, River Forest, Ill., assignor to General Household Utilities Company, Chicago, Ill., a corporation of Delaware
Application April 18, 1936, Serial No. 75,032
13 Claims. (Cl. 62—126)



1. An evaporator or boiler comprising a plurality of formed sheets welded together to form an evaporator space between the sheets, at least one of the sheets being embossed to form, with another of said sheets, a header chamber in the evaporator, at least one of the sheets being embossed to form a plurality of ducts opening at their ends in the header chamber, said evaporator being adapted to receive a body of evaporable liquid to a level in said header chamber and to receive the gases developed by ebullition of said liquid in said header chamber above the liquid level therein, means comprising a partition in said header defining a pocket therein on one side of said partition and opening upwardly in said header chamber above said ducts, in position to receive liquid spattered upwardly of the surface of the liquid in the header on the other side of said partition due to ebullition of the liquid in said evaporator, said partition being formed to provide an overflow, and an outlet in said header disposed in position with respect to said overflow to receive liquid delivered from said pocket through said overflow into said outlet.

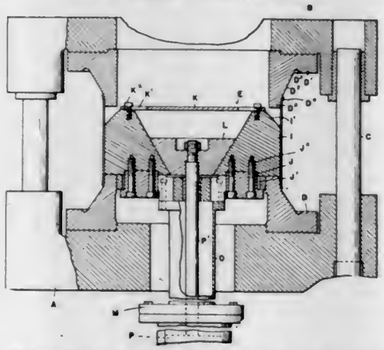
2,159,899
UTILIZATION OF THE HEAT CONTENT OF HOT RESIDUAL LIQUORS
Bertold Kranz, Mannheim-Waldhof, Germany, assignor of one-half to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany
Application October 10, 1936, Serial No. 105,093
In Germany November 28, 1935
1 Claim. (Cl. 202—49)



The method for carrying out distillations which

comprises fractionating vapours in a main fractionator, removing an overhead vapour stream from the fractionator, removing a bottom stream consisting practically exclusively of heavy material for the fractionator, introducing the bottom stream into a pressure release zone, evacuating vapours from the pressure release zone under a pressure less than that in the main fractionator at the level of bottom stream removal, and returning the vapours to the main fractionator at a point adjacent the removal of the bottom stream, the evacuation and delivery to the fractionator being effected by live steam but without any supply of additional heat to the bottom stream in the pressure release zone, and using the live steam together with the evacuated vapours for heating the material to be distilled.

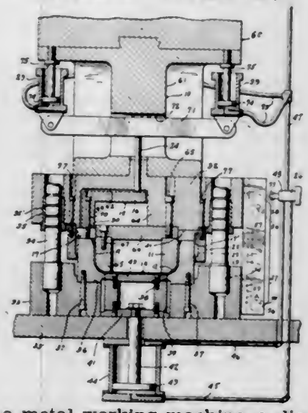
2,159,900
MACHINE FOR FASHIONING ANNULAR SHEET METAL ARTICLES
Frank H. Le Jeune and John E. Copeland, Detroit, Mich., assignors to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application August 3, 1936, Serial No. 94,083
10 Claims. (Cl. 153—25)



1. A machine for forming wheel rims comprising opposed presser heads, annular dies mounted on said heads in axial alignment with each other, a chuck axially floatingly mounted between said dies and adapted in collapsed position to receive a hoop, means for relatively reciprocating said presser heads, and means operated by the initial inward movement of said heads for expanding said chuck to circularize said hoop and to hold the same in alignment with said dies whereby upon the further inward movement of said heads said dies will engage the opposite end portions of said hoop and expand the same.

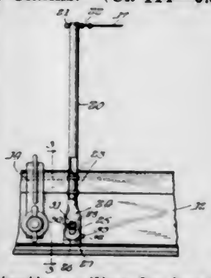
8. A machine for forming drop-center wheel rims comprising opposed presser heads, annular dies mounted on said heads in axial alignment with each other and fashioned to form the sides of the drop-center portion of the rim, a chuck axially floatingly mounted between said dies and adapted in collapsed position to receive a hoop, the expanded diameter of said chuck and its axial length being that of the bottom of the drop-center portion of said rim, means on the floating mounting for said chuck adapted to support in symmetrical relation thereto a hoop having a central cylindrical portion and oppositely flaring end portions, means for relatively reciprocating said presser heads to bring said dies into contact with the ends of said chuck, and means operated by the initial inward movement of said heads for expanding said chuck to engage the central portion of said hoop and to hold the same concentric with said dies and against radial inward movement whereby upon the further axially inward movement of said heads said annular dies will refashion said flaring portions to form the sides of the drop-center portion of the rim.

2,159,901
METALWORKING MACHINE
Frank H. Le Jeune, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application February 15, 1937, Serial No. 125,866
16 Claims. (Cl. 153—48)



1. In a metal working machine, a die provided with a portion slidably receiving one end of a tubular blank and having an inwardly curved portion for flaring said end of the blank inwardly, a member movable toward the die and slidably engageable with the inner surface of the blank to cooperate with the first named portion of the die to effectively support the side walls of the blank therebetween, and means effective upon initial movement of the member toward the die to exert a yielding pressure on the blank sufficient to slide the first named end of the blank into the die toward the curved portion of the die and effective upon continued movement of the member toward the die to positively move the blank in said direction to flare the end of the blank along the curved portion of the die.

2,159,902
PROTECTIVE RAILING FOR BOAT HATCHES
Hugh Sutherland Lewis, Rogers City, Mich.
Application July 24, 1937, Serial No. 155,540
3 Claims. (Cl. 114—0.5)



1. In a protective railing for boat hatches having a member defining the periphery of the hatch.

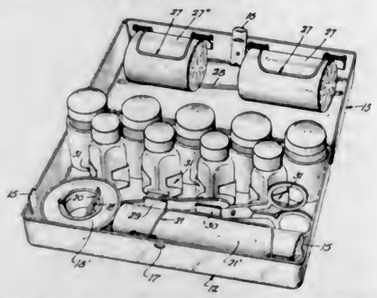
comprising a plurality of railing posts adapted for location at spaced points around the exterior of each member, means adapted to be fixed to the exterior of each member for supporting each post individually, said means providing a pivot and having an opening therein below the pivot, the base of said post also having an elongated opening therein for associating said post with the pivot, and means depending from the base of said post and extending into the opening in said first mentioned means for holding the post in upright position, said post being releasable from its upright position by upward bodily movement permitted by said elongated opening.

2,159,903
AUTOMOBILE SLIDE AERIAL
Stephen J. Max, Buffalo, N. Y.
Application October 4, 1937, Serial No. 167,271
1 Claim. (Cl. 250—33)



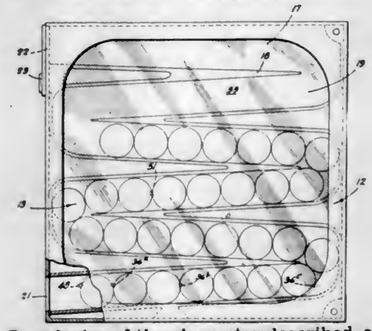
An aerial for motor vehicles comprising a sleeve having one end mounted in an opening in a wall of a motor vehicle body, an electrical conductive bracket supporting said sleeve on the body of the vehicle, a combined sealing and securing means between the body and the sleeve, an aerial element slidably supported by said sleeve and capable of being moved outwardly thereof to extend exteriorly of the body of the vehicle, said sleeve having a slot, a handle of electrical conductive material secured on said aerial element and extending through the slot, contact elements carried by the bracket to be engaged by the handle for grounding the aerial element on the body when moved inwardly of said sleeve, contact elements carried by said sleeve and connected to a radio receiving set to be engaged by the handle when the aerial element is moved outwardly of said sleeve and body of the vehicle.

2,159,904
FIRST AID KIT
Henry McDonough, Elgin, Ill.
Application May 10, 1937, Serial No. 141,751
3 Claims. (Cl. 206—12)



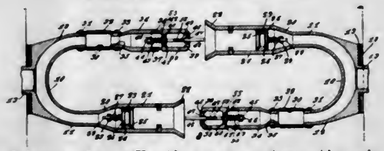
1. A clamping device adapted to be secured to the bottom of a first aid kit and comprising a pair of upstanding walls, and a spring tongue struck outwardly from each of said walls and adapted to cooperate with a wall of said kit to yieldingly hold bottles securely in place in said kit, said pair of walls also adapted to yieldingly hold a bottle therebetween.

2,159,905
VENDING MACHINE
Frank M. Moninger, Los Angeles, Calif., assignor to Sportsman's Manufacturing and Distributing Company, Inc., Los Angeles, Calif., a corporation of Nevada
Application October 14, 1936, Serial No. 105,532
8 Claims. (Cl. 312—49)



1. In a device of the character described, a magazine for storing a plurality of objects to be dispensed and having an outlet opening for delivery of said objects, means guiding said objects in a predetermined path toward said outlet, a plurality of movable stops mounted adjacent the path of said objects in moving toward said opening, said stops being disposed at successively greater distances from said opening to receive a different number of said objects between the stop proximal to said opening and each of the others of said stops, means yieldably urging all of said stops out of operative position, said proximal stop being normally maintained in operative position, a shaft rotatably mounted adjacent said stops, a plurality of cams rigid with said shaft, each in position to engage one of said stops and force it into operative position, said cams being progressively angularly offset with respect to each other about the axis of said shaft whereby they actuate said stops successively in their order of distance from said delivery opening, and means for rotating said shaft.

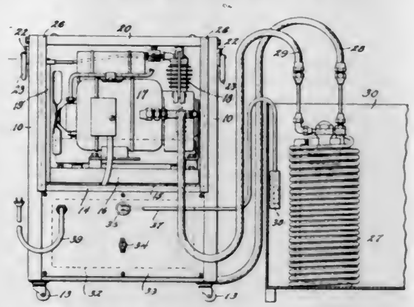
2,159,906
AUTOMATIC AIR COUPLING
Charles Conway Montgomery and Charlie Johnson, Hardburly, Ky.
Application April 12, 1938, Serial No. 201,616
4 Claims. (Cl. 284—5)



2. Means for effecting an automatic air pipe coupling between two draft-coupled cars, comprising a pair of like coupling units respectively mounted in reverse engaging relation on the meeting ends of the two coupled cars, each unit comprising a central stem portion provided with a passageway for communicable attachment to the air supply pipe of the car, a pair of branched extensions having passageways communicating with the passageway of the stem portion, one of said branches constituting the female coupling member of the unit and being provided with a flared outer end portion and an inwardly opening internal check valve, the opposite branch con-

stituting the male member of the unit and having a nozzle extension, an interposed flexible pipe with an encasing spring element yieldably holding said nozzle member extended, said nozzle member having an inwardly opening check valve and an annular seat portion at its outer end, said annular end seat portion being engageable with an internal seat within the female member of the unit adjacent the check valve of the latter when the units are coupled, and valve tripping means on one of said members for effecting an automatic opening of the respective check valves when the units are coupled.

2,159,907
PORTABLE REFRIGERATING UNIT
Nathan Morris, Silver Spring, Md., assignor to American Instrument Company, Silver Spring, Md., a corporation of Delaware
Application January 8, 1937, Serial No. 119,674
4 Claims. (Cl. 62—116)



4. A compact portable refrigerating unit of the class described comprising, in combination, a substantially rectangular casing; supporting frame members in the casing; a motor-compressor unit removably mounted on said frame members; removable protecting walls on the sides and top of the casing; an evaporator flexibly connected to said unit; and a storage compartment in the lower portion of said casing to receive said evaporator when it is not in use.

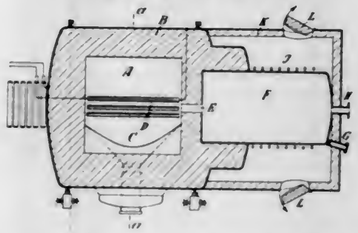
2,159,908
METHOD OF PRODUCING STABLE SOLUTIONS OF SULPHUR IN MINERAL AND OTHER OILS
Edward A. Nill, Highland Park, Mich.
No Drawing. Application April 20, 1937, Serial No. 138,007
4 Claims. (Cl. 87—9)

1. The process of making solutions of sulphur in mineral oil which consists in dissolving sulphur in a solvent at a temperature slightly above the melting point of sulphur, allowing the solution to cool and precipitate sulphur, and adding sulphur so precipitated to a mineral oil heated to a temperature somewhat below the melting point of sulphur.

2,159,909
DISINTEGRATION OF BARYTES ORES
Charles W. Price, Sweetwater, Tenn.
No Drawing. Application July 20, 1935, Serial No. 32,448. Renewed October 14, 1938
1 Claim. (Cl. 209—11)

A process of treating ferruginous siliceous native barytes which comprises subjecting the same, in a condition substantially free from adhering clay, sand and the like, and when of a size to pass a screen of about two inch mesh, but substantially free from fines passing a screen of about 20 mesh, and containing siliceous and ferruginous substances as the chief impurities, to a rapid heating to at least about 600° C., but below the melting point of barium sulphates, such heat treatment being conducted in a reducing atmosphere, to effect rapid decrepitation of the barium sulphate component and to effect reduction of a large part at least of the iron to render the iron magnetic, subjecting the mass to magnetic separation to thereby remove a large part at least of the iron from the finely divided barium sulphate and separating out the fine barium sulphate from the coarse impurities.

2,159,910
APPARATUS FOR THE THERMAL PRODUCTION OF VOLATILIZABLE METALS, PARTICULARLY OF MAGNESIUM
Hellmuth Seliger, Otto Bretschneider, Bernhard Hubald, Willy Krüger, and Georg Trugilitzka, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
Application March 23, 1938, Serial No. 197,682
In Germany March 27, 1937
4 Claims. (Cl. 13—21)

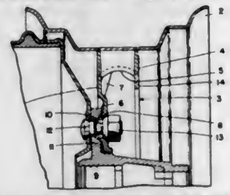


1. A furnace for the production of volatilizable metals by thermal reduction, comprising a substantially cylindrical substantially closed reaction chamber having a diameter at least equal to its length, a tangential opening in said chamber for supplying reaction mixture to and withdrawing reaction residue from sa'd chamber, a condensation chamber rigidly secured and adjacent to said reaction chamber in an axial direction and separated therefrom by a wall, an opening in said wall serving as a passage for the metallic vapours, generated in said reaction chamber, into said condensation chamber, electrical means centrally disposed within said reaction chamber for supplying radiant heat to the reaction mixture, and means for imparting movement to said reaction and condensation chambers around the axis of the reaction chamber.

2,159,911
METHOD OF MAKING A WHEEL
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Original application February 23, 1932, Serial No. 594,685, now Patent No. 2,120,631, dated June 14, 1938. Divided and this application July 26, 1937, Serial No. 155,802
4 Claims. (Cl. 29—159.03)

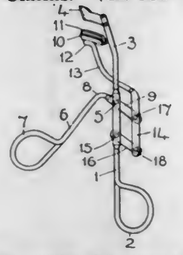
1. The method of making an artillery vehicle wheel body, which comprises pressing a disc-like

blank to substantially cup form, flanging said



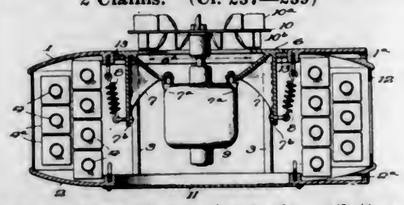
blank and pressing cup-shaped spoke bodies radially therefrom by oppositely acting radial forces.

2,159,912
EYELASH CURLER
Harold Aldritt Squire and Percy James Aldritt Squire, New Invention, near Wolverhampton, England; said Percy James Aldritt Squire assignor to Max Harry Greenman, London, England
Application January 4, 1938, Serial No. 183,368
In Great Britain October 8, 1937
3 Claims. (Cl. 132—32)



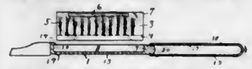
1. An eyelash curler incorporating a fixed jaw, a movable jaw, a supporting lever rigidly carrying the fixed jaw and an operating lever pivotally connected to the supporting lever for operating the movable jaw, characterised in that the movable jaw is free of the supporting lever and is mounted on a member connected to the operating lever and to the supporting lever, in such manner that the said supporting member is constrained to have a parallel motion in relation to the supporting lever, and the movable jaw a movement in a small arc of a circle or curve in relation to the fixed jaw.

2,159,913
VENTILATING UNIT
Dwight Tenney, Verona, N. J.
Application March 10, 1936, Serial No. 68,145
2 Claims. (Cl. 257—259)



2. A unitary air tempering and ventilating device comprising an annular tempering coil, a housing for said coil comprising a pair of annular baffle plates mounted on opposite sides of said coil, an annular aperture-plate removably mounted within the central opening of one of said baffle plates, a motor mounted upon said aperture-plate and arranged within the central space of said annular coil and having a shaft extending through the opening of said aperture-plate, a radial fan mounted on the end of said motor shaft opposite the opening in said aperture-plate, and a removable cover plate for the central opening in the other baffle plate, the diameter of both the aperture-plate and the fan being smaller than the diameter of the central openings in said baffles and the internal diameter of said coil whereby said aperture-plate and the elements mounted thereon may be removed from the ventilating device by passing the same through the housing of the tempering coil without disturbing the mountings thereof and the connections to the coil.

2,159,914
TOOTH BRUSH
Ralph L. Tweedale, Detroit, Mich.
Application February 26, 1931, Serial No. 518,546
Renewed October 17, 1938
19 Claims. (Cl. 15—176)



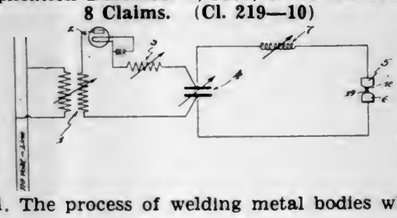
1. A holder for a tooth cleaning appliance refill having a wrapping comprising means defining a recess for receiving a part of the refill, and means for cutting the wrapping which operates to sever the wrapping as the refill is secured in place in the holder.

2,159,915
FREEWHEELING REGISTER INSTALLATION
James H. Van Wagenen, Washington, D. C.; Lois J. Van Wagenen, executrix of said James H. Van Wagenen, deceased, assignor to Lois J. Van Wagenen
Application April 2, 1932, Serial No. 602,727
Renewed October 12, 1938
5 Claims. (Cl. 235—95)



3. In an automotive vehicle, a free wheeling device, means to effect the operation of the free wheeling device by the vacuum established in the intake manifold and means controlled by the said vacuum and operative upon a predetermined condition of the free-wheeling device to measure only the amount of free wheeling effected while the free wheeling device is in operation.

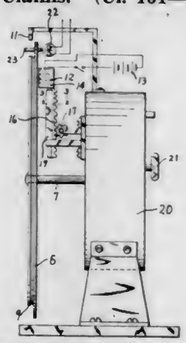
2,159,916
PROCESS FOR ELECTRIC FLASH PERCUSSIVE WELDING
Alfred Vang, Detroit, Mich., assignor to Vanco Products, Detroit, Mich., a corporation of Michigan
Application December 1, 1937, Serial No. 177,445
8 Claims. (Cl. 219—10)



1. The process of welding metal bodies which

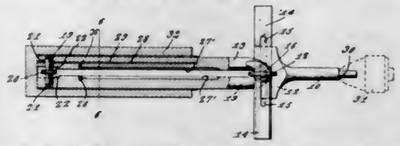
consists in effecting an electrical discharge of decreasing amplitude and of sufficient voltage to set up arcing conditions between the surfaces to be welded before the bodies are initially brought together and of sufficient heat producing power to render substantially the surfaces only molten, a substantial amount of the energy of said discharge being utilized to heat the surfaces of the metal bodies before the bodies are initially brought together, and then effecting a percussive engagement of the surfaces to be welded while the surfaces are still molten and before a substantial amount of the heat produced is conducted away from the said surfaces.

2,159,917
REMINDER DEVICE
William L. Wagner, Toledo, Ohio
Application August 28, 1937, Serial No. 161,461
2 Claims. (Cl. 161—1)



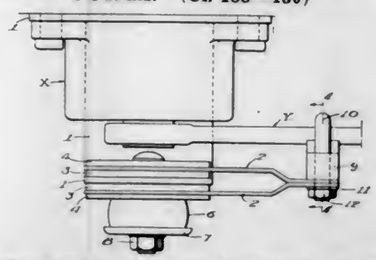
1. A reminder device comprising a translucent dial, frames carried by said dial for the insertion of tabs bearing reminder information and dividing the dial radially into two or more annular bands, time calibrations on said dial, timing mechanism operably connected to said dial to rotate the same at a speed corresponding to said time calibrations, a source of light so located as to illuminate the reminder information contained in one of said bands of said dial at the time of the occurrence of the event designated by the reminder information, and means to adjust the radial position of said light source to bring it into cooperative relation with any of said bands.

2,159,918
TOOL
Leonard E. Warnock, Towns, Ga.
Application June 13, 1938, Serial No. 213,536
4 Claims. (Cl. 51—184.1)



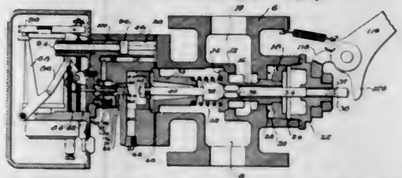
1. A tool for lapping cylinders comprising a shank, a head transversely disposed on the shank, a web projecting from the head, a pair of fingers each having an end directed at a right angle to the finger and disposed on the head at a respective side of said web, one of the fingers being longitudinally slotted to secure a sheet of emery paper thereto, the laterally directed ends of the fingers being provided with longitudinal slots, and an adjusting bolt carried by said web and slidably engaged in said slots.

2,159,919
MOTION DAMPING MECHANISM
John Warren Watson, Wayne, Pa., assignor to John Warren Watson Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 12, 1935, Serial No. 44,787
4 Claims. (Cl. 188—130)



1. For combination with a hydraulic shock absorber, and to complement the function of said shock absorber in controlling relative movements between the sprung and unsprung portions of a vehicle two frictionally opposed surfaces in positive fixed relation respectively with the body portion of the shock absorber and with a relatively movable part of said shock absorber, and resilient means for causing pressure between said frictionally opposed surfaces.

2,159,920
TIMING MECHANISM
Foster E. Weld, Newton, Mass., assignor to The Gamewell Company, Newton Upper Falls, Mass., a corporation of Massachusetts
Application November 19, 1936, Serial No. 111,749
18 Claims. (Cl. 137—139)

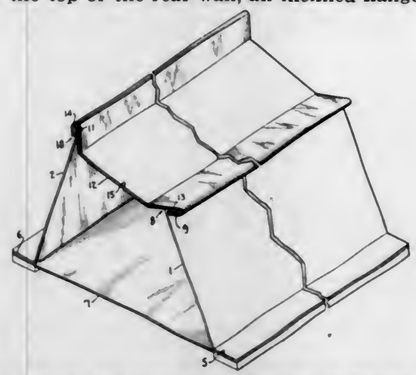


1. A timing device comprising an inlet chamber, a piston, a cylinder in which the piston reciprocates, means for normally maintaining substantially balanced pressure on the piston, means for initially establishing a relief passage from the cylinder at one side of the piston, a second piston operable by pressure from said chamber for thereafter closing the relief passage, means for restoring the balanced pressure on the piston at a governable rate, said restoring means including a timing chamber in communication with the cylinder, and means operated by restoration of balanced pressure on the piston for cutting off pressure from said second piston to thereby cut off communication between the cylinder and timing chamber.

2,159,921
SUPPORT FOR LOOSE LEAF BINDERS
Nelson S. Welk, Athens, Ohio, and Fred Hocker, Harrisburg, Pa., assignors to The McBee Company, Athens, Ohio, a corporation of Ohio
Original application July 26, 1935, Serial No. 33,196. Divided and this application March 10, 1937, Seral No. 129,970
3 Claims. (Cl. 129—1)

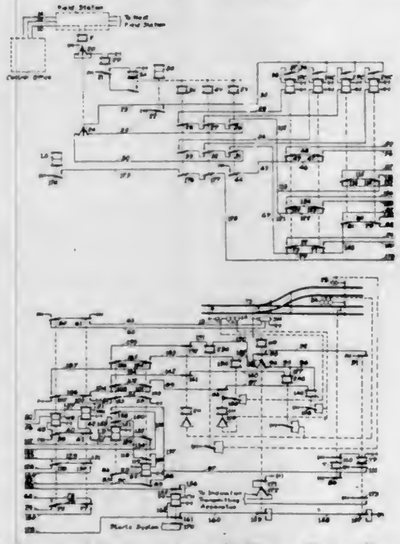
1. In a base for supporting a loose leaf book having a hinged back, hinges which attach covers

of said book to the back and prongs to which loose leaves are secured; said base comprising inclined front and rear walls, substantially corresponding in height to the size of the covers of the book to be supported, the lower portion of said walls being bent to form feet, a tie plate which connects said feet secured thereto, a vertical flange at the top of the rear wall, an inclined flange at



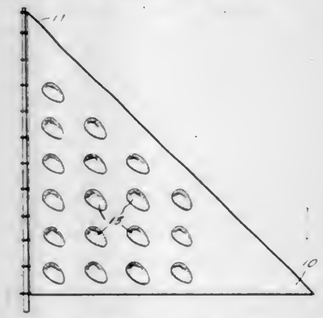
the top of the front wall, a channel which fits the back of said book, the edges of said channel being secured to the flanges on said walls, the point of connection of said channel to said flanges being such that the book will be supported at the point adjacent the hinges of the book so that when opened, the leaves will be in position for convenient reading.

2,159,922
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Robert F. Wells, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application September 22, 1932, Serial No. 634,370
21 Claims. (Cl. 246—3)



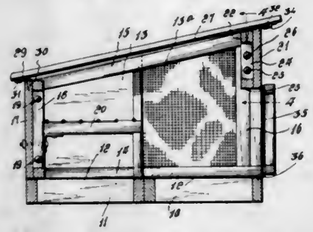
3. In combination, a switch machine for operating a railway track switch, signals for governing traffic over the track switch, a line circuit extending from a control office to the track switch and having a single series of impulses applied thereto for controlling both the operation of said switch machine and said signals, switch control means responsive to certain impulses of said series to thereby control said switch machine, signal control means responsive to certain succeeding impulses of said series only when said switch control means has actually responded to its impulses, and means for clearing said signals when said signal control means has responded to its impulses only if said switch machine has responded to said switch control means, whereby the failure in the reception of an impulse results in the failure to clear one of said signals.

2,159,923
POCKET SAIL
Frank M. Willard, Timber Lake, S. Dak.
Application March 31, 1938, Serial No. 199,221
3 Claims. (Cl. 114—103)



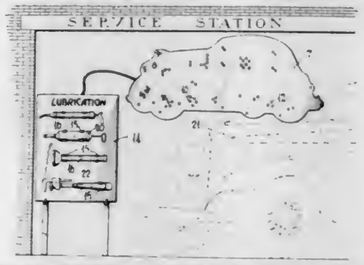
1. A sail for a sailing vessel, said sail having pockets for impingement by the wind to exert a lifting effect, said pockets being on an axis extending upwardly from the base of the sail toward the top thereof, and being substantially ellipsoidal.

2,159,924
CHICKEN HOUSE
Lester P. Wright, Richford, N. Y.
Application January 6, 1938, Serial No. 183,695
6 Claims. (Cl. 119—21)



1. In a chicken house of the character described, perpendicular end and rear walls and a front wall, and roof sections having interlocking engagement with the upper edges of the front and rear walls, the rear wall being rigidly mounted in position and the front wall including a top section pivotally mounted intermediate its upper and lower edges to the end walls and movable into interlocking engagement with the roof sections and means for holding the top section against movement relative to the roof sections.

2,159,925
SALES AND SERVICE EQUIPMENT
Albert A. Wood, Columbus, Ohio, assignor of one-half to Ernest A. Holton, Columbus, Ohio
Application September 18, 1937, Serial No. 164,598
4 Claims. (Cl. 35—54)



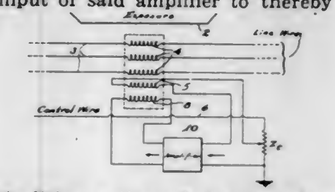
1. In combination, a panel bearing a diagrammatic representation of a particular kind of article, electric lamp bulbs mounted on the panel and arranged according to the arrangement of specific parts of the article which the diagram represents, legends associated with the lamps and bearing the names of the parts of the article which are to be serviced, means for supporting tools used in servicing the article, switches actuated by the removal of the tools from said means or the returning of the tools to said means, and electric circuits in which the switches and lamps are arranged in such manner that the removal of a tool from the means will result in illuminating lamps, which indicate particular parts on the diagrammatic representation with which the tool is to be used.

2,159,926
METHOD OF SOFTENING PLASTIC SHEETS
Julius F. T. Berliner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 9, 1935, Serial No. 20,603
5 Claims. (Cl. 18—56)

1. In plastic sheeting operations, the method of softening but not dissolving sheeting of nitrocellulose plastic compositions which comprises treating such compositions with a solution of about one part by volume of water and 3 to 4 parts of a solution containing about 75 to 91 parts of methanol and about 9 to 25 parts of a relatively water-immiscible ketone of from 4 to 9 carbon atoms per molecule having a boiling point in the range of about 115–128° C. and obtainable by oxidation of the secondary branched chain aliphatic alcohols produced by the catalytic pressure hydrogenation of oxide of carbon.

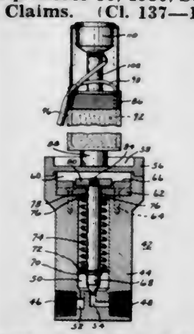
2,159,927
NEUTRALIZATION OF INDUCTIVE INTERFERENCE
William D. Cannon, Metuchen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application June 25, 1935, Serial No. 28,359
13 Claims. (Cl. 178—69)

1. In a system for neutralizing current induction in line wires, a compensating transformer having coils connected in said line wires, a control wire external to said transformer and exposed to the same induction with said line wires, an amplifier having its input adjustably connected to receive a portion of the voltage induced in said control wire, the output of said amplifier being connected to a coil of the transformer, and a coil of said transformer connected in the input of said amplifier to thereby cause



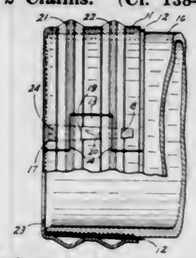
the neutralizing action of the transformer to respond under all varying conditions to which the line wires are subjected.

2,159,928
REFRIGERATING APPARATUS
Lonzo S. Cooper, Piqua, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 30, 1936, Serial No. 103,280
3 Claims. (Cl. 137—139)



1. A valve means including a sealed valve body with rigid walls containing and completely enclosing a valve sealed therein, said valve being provided with a portion of magnetic material, said valve consisting of a bar rotatable with respect to the valve body, said valve having open and closed positions, said valve body having a shoulder for supporting the bar when the valve is in the open position and a notch adjacent the shoulder for receiving the bar when the valve is in closed position, said magnetic portion being moved by magnetic means outside the valve body to move the valve and the bar from one position to another.

2,159,929
THREAD PROTECTOR
Julius Kahn and Walter F. Schulz, Youngstown, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application November 24, 1936, Serial No. 112,545
2 Claims. (Cl. 138—96)

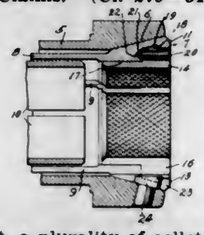


1. A thread protector comprising an annular split sleeve, circumferential ribs therein having interengaging portions at the free ends of said sleeve formed with axially-alined apertures and means projected through said apertures for locking the ends of the sleeve together.

2,159,930
PREPARATION OF LEUCO-INDIGO
Newton Lamb, Saginaw, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 7, 1935, Serial No. 35,163
1 Claim. (Cl. 260—323)

The method of preparing leuco-indigo which comprises adding indigo to an aqueous solution of a phenyl-glycine fusion mass containing indoxyl and caustic alkali, concentrating the solution by evaporation under subatmospheric pressure to a total alkali content between about 15 per cent and about 22 per cent, expressed as NaOH, cooling to precipitate a small amount of alkali metal salt of leuco-indigo together with impurities present in the mixture, separating the precipitate, further concentrating the purified solution to a total alkali content in excess of 22 per cent but not greatly exceeding 30 per cent, expressed as NaOH, cooling to room temperature or below to crystallize alkali metal salts of leuco-indigo, and separating the crystals.

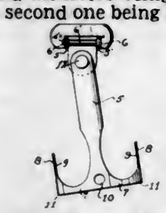
2,159,931
CHUCKING MEANS
Donald H. Montgomery, West Hartford, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application November 10, 1937, Serial No. 173,811
6 Claims. (Cl. 279—51)



2. In a collet, a plurality of collet jaws having longitudinally tapered outer surfaces to fit a tapered seat means, pads for said jaws, each jaw having an abutment surface facing toward the end of said jaw having the smaller diameter of said tapered surface, each pad having an abutment surface facing toward the end of said jaw having the larger diameter of said tapered surface, said abutment surfaces being in mutually abutting relationship to solidly resist end movement of said pads on said jaws in the direction toward the end of said jaws having the larger diameter of said tapered outer surfaces, said jaws and pads having mutually abutting surfaces to resist radial outward movement of said pads on said jaws, and means at the front of said jaws and pads and coacting with said jaws and pads for holding the latter on said jaws with the mutually abutting surfaces aforesaid in mutually abutting relationship.

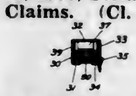
2,159,932
FLASHLIGHT BRACKET AND HOLDER
Bernard F. Muldoon, Mountain View, N. J., assignor to Henry Hyman, Brooklyn, N. Y.
Application March 26, 1936, Serial No. 70,947
3 Claims. (Cl. 248—359)

1. Means for supporting a flashlight in selected angular positions comprising three members, the first one of said members being attached to said flashlight, the second one being hinged to the first



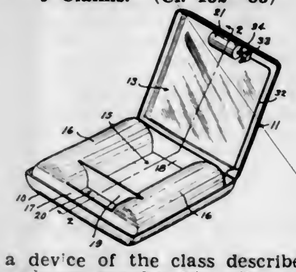
one and the third one being hinged to the second one to move in a plane at an angle to the plane of movement of the second one.

2,159,933
BLADE MAGAZINE
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Original application December 24, 1937, Serial No. 181,526, now Patent No. 2,132,798, dated October 11, 1938. Divided and this application March 16, 1938, Serial No. 196,259
6 Claims. (Cl. 206—16)



2. A blade magazine comprising an enclosure rectangular in cross section and having flat, inturned bottom flanges spaced from each other, a plurality of individual blades contained within the enclosure, the lowermost blade being perforated and resting upon said spaced flanges with its perforations exposed between their edges to receive blade-engaging elements of a razor, and a positioning flange on the magazine extending below said spaced flanges to engage the razor and register its blade-receiving face with respect to said lowermost blade.

2,159,934
VANITY CASE
William A. Preisz, Yakima, Wash., assignor of fifty per cent to Jack Newton, Seattle, Wash.
Application November 15, 1937, Serial No. 174,528
9 Claims. (Cl. 132—83)

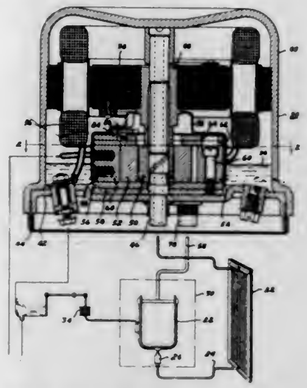


1. In a device of the class described, a case member; a cover member hingedly connected to the case member; a mirror carried by the cover member; a powder reservoir in said case member; and electric lamp bulb; battery and circuit means operatively connected with said lamp bulb; and shielding means operatively positioned as respects said lamp bulb to direct substantially all light toward and at an acute angle to the surface of powder in said powder reservoir, whereby light may be diffused by and directed from the surface of the powder toward the object to be reflected in the mirror.

2,159,935
BRAKE LINING
Vernon H. Sanders, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
No Drawing. Application August 25, 1936, Serial No. 97,786
10 Claims. (Cl. 106—7.5)

1. A hard, tough and wear and heat-resistant brake lining comprising finely powdered hard refractory material which has a high coefficient of friction throughout the range of temperatures to which the lining is subjected in service and fibres of a heat-resistant material interspersed throughout the finely powdered material, the powdered material and interspersed fibres being bound together in a hard, solid mass by a heat-hardened resinous binder.

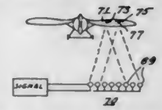
2,159,936
ROTARY COMPRESSOR FOR REFRIGERATING APPARATUS
Rolf M. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 31, 1936, Serial No. 71,869
6 Claims. (Cl. 230—149)



1. A rotary pump including a pumping chamber wall, an impeller mounted within the chamber wall, means for revolving the impeller eccentrically along the chamber wall, a plurality of unsymmetrically positioned means with respect to the pumping chamber wall for providing a plurality of seals between the pumping chamber wall and the impeller to provide a plurality of pumping chambers of different size, a section of the pumping chamber wall between two of the sealing means having a lesser clearance between said section and the most eccentric portion of the impeller than between other portions of the wall and said most eccentric portion.

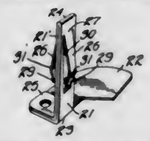
2,159,937
ELECTRICAL DEVICE
Vladimir K. Zworykin, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Original application August 31, 1933, Serial No. 687,575, now Patent No. 2,085,406, dated June 29, 1937. Divided and this application May 21, 1936, Serial No. 81,004
7 Claims. (Cl. 250—1)

1. An electrical mirror for ultra high radio frequency energy comprising a plurality of straight gas-filled tubes arranged in juxtaposed relation with their longitudinal axes parallel so as to form a semi-cylindrical surface, means for ionizing said gas, a beam of ultra high radio fre-



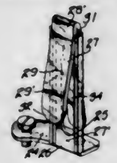
quency energy, and means for impressing said beam on said tubes whereby parallel rays of said ultra high frequency radio energy striking said surface will be brought into a desired focus.

2,159,938
ELECTRIC PLUG
Nathan Chirelstein, Chicago, Ill.
Application August 11, 1937, Serial No. 158,542
2 Claims. (Cl. 173—361)



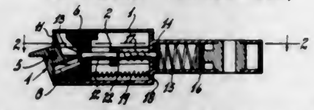
2. An attachment plug comprising a body portion of insulating material having a flat face and a pair of flat contact blades extending outwardly of the face, each blade being made from a strip of thin resilient metal folded upon itself to provide two layers in contact with each other throughout their lengths, each of said layers being provided with a branch struck therefrom intermediate the side edges thereof and offset therefrom, the branches extending from adjacent the free ends of the blade, the free ends of the branches being spaced from and terminating adjacent the flat face of said body portion and a shoulder adjacent the free end of each branch normally offset from the adjacent side of the blade.

2,159,939
ELECTRIC PLUG
Nathan Chirelstein, Chicago, Ill.
Application August 23, 1937, Serial No. 160,379
3 Claims. (Cl. 173—361)



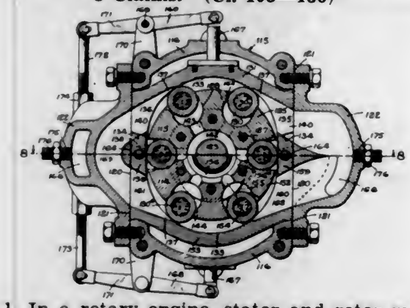
3. A blade for an electric plug construction comprising a stem of thin normally resilient metal formed with side flanges which extend at an angle thereto a distance equal to the thickness of the stem, said stem being bent back upon itself at its distal end and extending downwardly between the flanges a short distance and then outwardly therefrom and bent near its free end so that it will rest between the flanges at one side of the blade when the blade is resting in the socket of a plug member while a portion of the branch extends outwardly beyond the outwardly extending flanges of the blade and a branch struck from the stem and extending therefrom at the side of the blade opposite the first named branch.

2,159,940
DOOR LOCK
Waldemar A. Endter, Long Beach, Calif.
Substitute for abandoned application July 24, 1931, Serial No. 552,812. Divided and this application July 27, 1936, Serial No. 92,865
13 Claims. (Cl. 292—192)



1. An improved door lock comprising a lock case, a yoke slidably mounted in said case, a rotary locking element journaled in the yoke, a plurality of blades on the rotary locking element, a plurality of wedges slidably mounted in the lock case, and means to retract said wedges, spring means bearing against said yoke, and spring means bearing against said wedges.

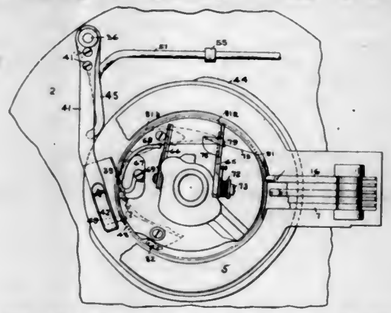
2,159,941
HYDRAULIC MACHINE
Edward Ewart Guinness, Wolverhampton, England, assignor, by direct and mesne assignments, to Fluvario, Limited, West Bromwich, England, a company of Great Britain
Application November 14, 1934, Serial No. 752,966
In Great Britain September 11, 1933
3 Claims. (Cl. 103—136)



1. In a rotary engine, stator and rotor members, said rotor having a plurality of recesses extending substantially in the direction of its axis of rotation, vanes of cylindrical form rotatable in said recesses and adapted for rolling engagement with the adjacent surface of the stator member, said vanes being movable inwardly and outwardly of said recesses, said stator surface being eccentric in relation to said rotor, said engine having a cam face concentric in relation to said stator surface but spaced therefrom, said cylindrical vanes extending between said cam face and stator surface and having a diameter slightly less than the distance between said cam face and stator surface, and means for maintaining said vanes out of actual contact with the cam face and in rolling engagement with said stator surface during the rotation of said rotor.

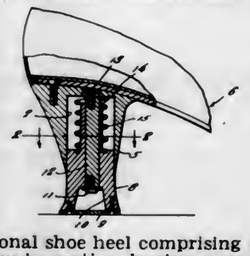
2,159,942
KNITTING MACHINE
Robert H. Lawson and William L. Smith, Jr., Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application February 18, 1935, Serial No. 6,944
In Canada April 10, 1934
15 Claims. (Cl. 66—134)

1. A knitting machine having means for feeding a yarn to all the needles during the knitting of circular courses and another yarn to some only of the needles, in combination with means for severing the yarn last mentioned at least once during the knitting of each of several



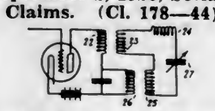
courses, said severing means including a cutting element and means for moving said cutter from outside the needle circle to a position within the needle circle to cut the second mentioned yarn in the manner described.

2,159,943
SHOE HEEL
John Palley, Farmington, Ill.
Application August 6, 1938, Serial No. 223,511
2 Claims. (Cl. 36—38)



2. A sectional shoe heel comprising a relatively stationary main section having a socket, a depending detachable rigid pin arranged centrally in said socket and extending below the open bottom thereof, said pin being polygonal in cross sectional form, a relatively movable section fitted telescopically for sliding in said socket, said movable section having a sheath and bore coacting in providing a guide passage for the pin, and a coiled spring surrounding the sheath and located in the socket and bearing at one end against the fixed section and at its opposite end against the movable section.

2,159,944
COUPLING ARRANGEMENT FOR AMPLIFIERS AND REPEATERS
Walter van B. Roberts, Bronxville, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 2, 1926, Serial No. 133,283
3 Claims. (Cl. 178—44)



1. A compound coupling arrangement for providing an effective mutual impedance between two circuits that varies with frequency over a

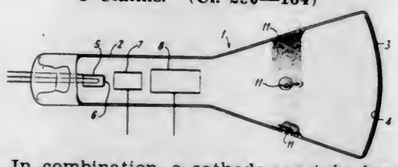
range of frequencies in a predeterminable manner, comprising mutual inductance between series elements of said circuits in combination with mutual inductance between a series element in one of said circuits and an inductance connected in shunt to a condenser in series in the other of said circuits, said last named inductance and condenser elements being chosen to determine a natural frequency below the lowest frequency of the said range of frequencies.

2,159,945
FOLDABLE SLICING BOARD
Jessie M. Wilson, Philadelphia, Pa.
Application September 15, 1937, Serial No. 163,925
1 Claim. (Cl. 146—215)



A slicing board made of a pair of folding board sections, said sections being secured together at one end such that in unfolded relation the sections are in end abutting relation with their top faces in a common plane and in folded relation the sections have their faces in abutting relation, said securing means comprising a trough-shaped spring element extending longitudinally beneath the abutting ends and having its sides hingedly secured to the bottom face of the respective sections and clampingly securing the two sections together under tension, both in unfolded and folded positions.

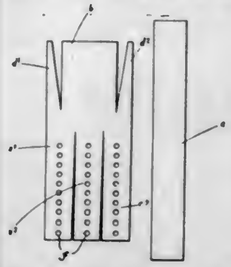
2,159,946
ELECTRON DISCHARGE DEVICE
Jan Hendrik de Boer, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken
Application April 8, 1937, Serial No. 135,623
In the Netherlands April 14, 1936
3 Claims. (Cl. 250—164)



1. In combination, a cathode ray tube having an evacuated envelope, an oxide coated cathode adjacent one end of and exposed to the residual atmosphere in said envelope, and a luminescent screen oppositely disposed from said cathode containing a compound of sulphur capable of forming deleterious decomposition products injurious to the oxide coating of said cathode, a coating of an active metal capable of binding deleterious gases formed by said screen positioned on the wall of said envelope between said anode and said fluorescent screen out of contact with and removed from said luminescent screen.

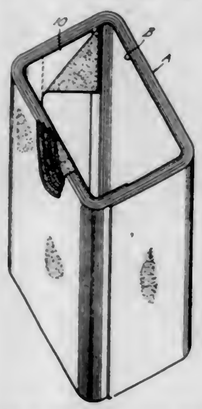
2,159,947
FIXER FOR PERMANENT CATHETERS
Imre Gansel, Budapest, Hungary
Application February 23, 1938, Serial No. 192,135
In Hungary November 28, 1936
3 Claims. (Cl. 128—349)

1. A tying device for catheters comprising a strip of flexible material for encircling the penis behind the glans, and a separate sheet of flexible material for tying the catheter to said strip, said sheet being cut part way longitudinally at each end so as to comprise portions for securing it to the catheter in front of the glans, and a plurality



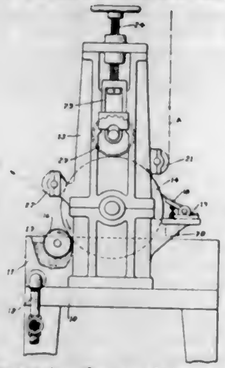
of joining portions extending from said sheet portion for securing the sheet to the said penis-encircling strip, said strip and sheet being composed of elastic material which adheres to itself but not to the skin or hair.

2,159,948
FIBER CAN BODY
Alexander G. Hatch, Rutland, Vt., assignor to Fibre Can Machinery Corporation, Rutland, Vt., a corporation of Vermont
Application August 24, 1937, Serial No. 160,618
1 Claim. (Cl. 138—64)



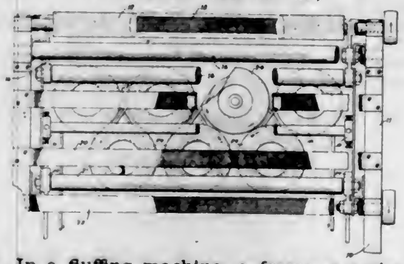
A fiber can body impervious to fluids, comprising an inner lining and an outer supporting body, said inner lining being a single sheet of thin material impervious to selected fluids and convolutely wound to provide an overlap with the outer face of the overlying material of the overlap adhesively secured to the inner face of the underlying material of the overlap to provide within the outer body a continuous unbroken wall overlapping itself in opposite directions, the outer supporting body being composed of a single sheet of coarse fibrous material convolutely wound around the inner lining and around itself into a series of contacting coils, and a continuous layer of adhesive interposed between the lining and the outer body and between the convolutions of the outer body and extending from the longitudinal edge of the lining material to the outermost longitudinal edge of the body and bonding said lining and body material into a substantially rigid one-piece body structure.

2,159,949
STARCH APPLYING MACHINE
Fred B. Hirsch, East Providence, R. I., assignor to Dodgeville Finishing Company, Inc., Attleboro, Mass., a corporation of Massachusetts
Application March 10, 1938, Serial No. 195,055
4 Claims. (Cl. 91—51)



1. In an apparatus for applying starch to textile materials, a frame, a tank, said tank having a treating liquid therein, a drum rotatably mounted in said frame for dipping into said liquid, said drum having spaced depressions extending over substantially the entire surface thereof, a roller mounted in said tank and having a liquid retaining surface and contacting said drum surface, and means for pressing textile material against the surface of said drum above said liquid.

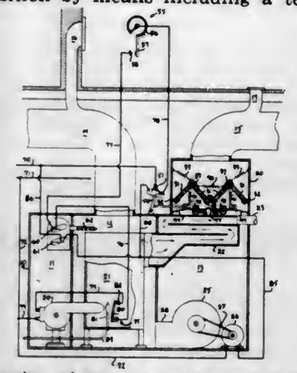
2,159,950
FLUFFING MACHINE
Fred B. Hirsch, East Providence, R. I.
Application April 25, 1938, Serial No. 203,979
2 Claims. (Cl. 26—29)



1. In a fluffing machine, a frame, a series of rotatable brushing disks mounted in transverse alignment on said frame, a second series of rotatable brushing disks mounted in said frame in spaced parallel alignment to said first series, guide rod elements for guiding a strip of textile material successively into brushing contact with said disks, means for moving the strip of textile material across said disks, and means for rotating said disks to alternately brush the textile material surface in opposite directions.

2,159,951
FILTER PROTECTION
Clarence W. Nessell, Dayton, Ohio, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 11, 1938, Serial No. 189,984
11 Claims. (Cl. 126—110)

1. In a warm air heating system, in combination, heating means, means for circulating air to be heated past said heating means, filter means for cleaning said air exposed to heat from said heating means, said filter means being collapsibly supported and normally latched in non-collapsed position by means including a tempera-



ture responsive element so arranged that at a predetermined temperature adjacent said filter means the filter means will be automatically removed from exposure to heat from said heating means whereby danger of ignition of the filter means is eliminated.

2,159,952
FOUNDRY SAND
Otis L. Jones, Joliet, and Jesse L. Essex, La Grange, Ill., assignors to The Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois
No Drawing. Application July 19, 1937, Serial No. 154,466
4 Claims. (Cl. 22—188)

1. The method of green sand molding which is characterized by forming a carbon deposit on the surface of the mold by incorporating in the molding sand a small amount of fluid hydrocarbon, such as emulsified asphalt, having a high carbon content and low residue; and causing said asphalt to decompose under the action of heat as the metal is poured into the mold to evolve blanketing gases and to leave a carbon residue on the surface of the mold without clogging the pores in the sand.

2,159,953
INSECTICIDE
Giuseppe Proetto, Philadelphia, Pa.
No Drawing. Application March 16, 1939. Serial No. 262,177
4 Claims. (Cl. 167—24)

1. An insecticide comprising wine dregs, capsicum, African bitter gourd juice, nicotine, and strong alkali soap.

2,159,954
METHOD FOR PREVENTION OF SEEPAGE OF WATER
Ben F. Powell, Custer, S. Dak., dedicated to the free use of the People of the United States
No Drawing. Application April 13, 1937, Serial No. 136,614
1 Claim. (Cl. 61—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A process of preventing the seepage of water around dams, which comprises drilling holes of sufficient depth and space, generally normal to

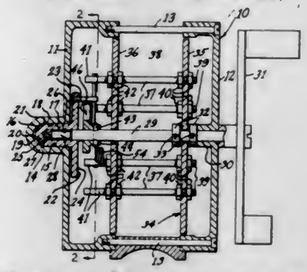
the thalweg of the valley in which the dam is located and on an extension of the axis thereof, thence injecting therein, under pressure, a highly viscous gel, consisting of bentonite, in proportions varying from 5 to 15%, by weight, that has been thoroughly mixed with water.

2,159,955
LEVER FOR USE AS A WALKING BEAM OR THE LIKE
Walter H. Scales, New Orleans, La., assignor, by mesne assignments, to Timber Engineering Company, Washington, D. C., a corporation of Delaware
Application June 13, 1938, Serial No. 213,483
1 Claim. (Cl. 74—519)



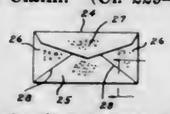
A timber lever of the walking beam type comprising, in combination: a plurality of laminations of substantial thickness formed of elements integral throughout the length of the lever; said laminations lying face to face in parallel planes; said laminations comprising elements placed in meeting edge to edge relation in the lamination; the joints between said meeting edges being in staggered relation to the joints of the adjacent lamination; a plurality of bolts passing through said laminations, securing each of the individual elements to an element of an adjacent lamination; the connecting bolts adjacent the ends of the lever more closely spaced than those near the middle thereof; and timber connectors sunk into the meeting faces of the laminations around at least some of said bolts; whereby said elements may be individually creosoted, framed and shipped in disassembled relation.

2,159,956
AUTOMATIC CLUTCH
Foster H. Wetmore, Detroit, Mich.; Roy E. Brainerd, Detroit, Mich., administrator of Foster H. Wetmore, deceased, assignor to Mary H. Wetmore, Detroit, Mich.
Application July 26, 1937, Serial No. 155,831
6 Claims. (Cl. 242—84.7)



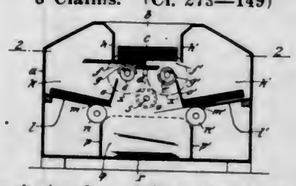
1. A free spool fishing reel including a frame, a drive shaft journaled in the frame, a free spool on the drive shaft, including a pair of discs coaxial with the drive shaft, forming side walls of the spool, and a plurality of rods parallel to and equidistant from the drive shaft, securing the discs in spaced relation and forming a support for windings on the spool, said rods including projecting portions at one end of the spool, a driving member fixed to the drive shaft, a dog pivoted to the driving member, and swingable into and out of position for engagement with one of said projecting portions, means urging said dog out of said position, and means operable upon rotation of said drive shaft to swing the dog into said position.

2,159,957
ENVELOPE
John J. Ormond, Boston, Mass., assignor to Art-O-Graphic Printing Company, Inc., Boston, Mass., a corporation of Massachusetts
Application July 26, 1937, Serial No. 155,587
1 Claim. (Cl. 229—68)



An envelope having its rear face comprising a plurality of flaps sealed together, and a closure flap unsealed but overlapping the sealed flaps, the sealed flaps having a portion of an image or picture disposed or printed thereon terminating at a line which would be defined by the edge of the unsealed flap when the latter is brought into its closing position, the complemental portion of the aforesaid image being disposed or printed on the surface and edge of the unsealed flap, while in its unsealed condition, whereby when the unsealed flap is brought into closed position no unprinted marginal space appears, said printed image thereby presenting substantially uniform tonal value throughout its area and throughout each of the uneven flap portions without significant differentiation due to variation in the thickness of the body of the envelope printed upon.

2,159,958
DEVICE FOR MIXING PLAYING CARDS OR THE LIKE
Erich Sachs, Berlin, Germany, assignor to Eugene A. Roll and Herman T. Lukow, both of New York, N. Y.
Application December 16, 1936, Serial No. 116,113
In Germany October 18, 1934
8 Claims. (Cl. 273—149)

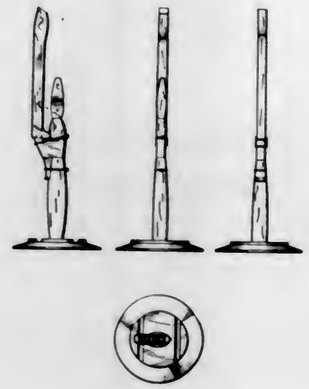


1. In a device for mixing playing cards or the like, the combination of a casing, a receiving chamber in the upper part of said casing, adapted to receive a pile of unmixed cards and being substantially open at the bottom, two sections arranged at opposite sides of the receiving chamber, two removing means disposed at the bottom of said receiving chamber, one at each side of the middle axis of said receiving chamber, and adapted to displace at least one card of the pile of unmixed cards from the open bottom of said receiving chamber into one of said sections, means to engage alternatively one of said removing means with the lowest card of the pile of unmixed cards, collecting means in the lower part of the casing, delivering means to discharge the displaced cards from said sections into said collecting means to form therein a single pile of mixed cards, and driving means adapted to operate said removing means.

DESIGNS

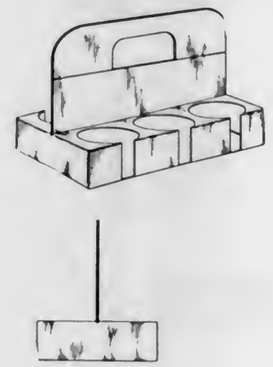
MAY 23, 1939

114,888
DESIGN FOR A DESK ORNAMENT OR THE LIKE
Howard J. Agnew, Arkansas City, Kans.
Application March 8, 1939, Serial No. 83,439
Term of patent 7 years



The ornamental design for a desk ornament or the like, as shown.

114,889
DESIGN FOR A COMBINED DISPLAY CARTON AND CARRIER
Thomas R. Campbell, Elmira, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application March 1, 1939, Serial No. 83,284
Term of patent 14 years



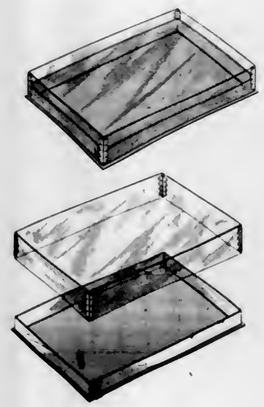
The ornamental design for a combined display carton and carrier, as shown and described.

114,890
DESIGN FOR A STATUETTE OR SIMILAR ARTICLE
Irving Defren, Brooklyn, N. Y.
Application April 4, 1939, Serial No. 84,036
Term of patent 7 years



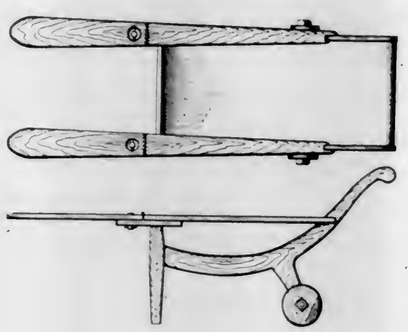
The ornamental design for a statuette or similar article, substantially as shown and described.

114,891
DESIGN FOR A TRANSPARENT BOX
Abraham Fogel, Montreal, Quebec, Canada
Application September 21, 1938, Serial No. 80,024
Term of patent 14 years



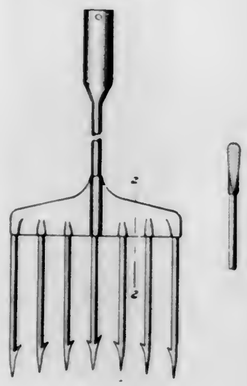
The ornamental design for a transparent box, as shown and described.

114,892
DESIGN FOR A CHAIR
John McLean Gardner, Trenton, N. J.
Application February 4, 1939, Serial No. 82,782
Term of patent 7 years



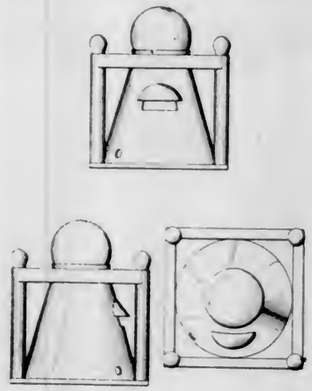
The ornamental design for a chair, as shown.

114,893
DESIGN FOR A SPEAR
Leo D. Goddeyne, Bay City, Mich.
Application March 16, 1938, Serial No. 75,868
Term of patent 7 years



The ornamental design for a spear, as shown.

114,894
DESIGN FOR A DISPENSING MACHINE CABINET
Ameen B. Hassan, Paris, Tex.
Application February 7, 1939, Serial No. 82,847
Term of patent 7 years



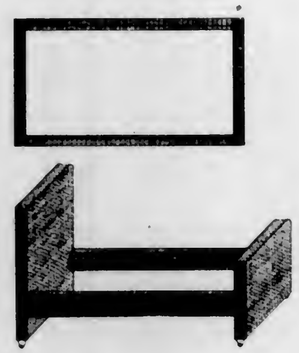
The ornamental design for a dispensing machine cabinet, as shown.

114,895
DESIGN FOR A GLASS RELISH DISH OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application March 8, 1939, Serial No. 83,442
Term of patent 14 years



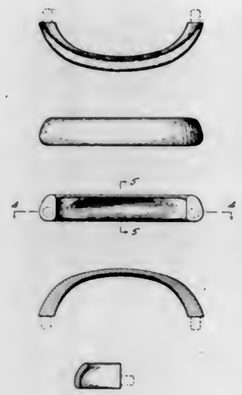
The ornamental design for a glass relish dish or article of similar nature, substantially as shown.

114,896
DESIGN FOR A BEDSTEAD
Ota O. Hobson, Charlton, Iowa
Application July 18, 1938, Serial No. 78,571
Term of patent 3½ years



The ornamental design for a bedstead, substantially as shown.

114,897
DESIGN FOR A DRAWER PULL OR SIMILAR ARTICLE
James R. Jones, Lakewood, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y.
Application February 24, 1939, Serial No. 83,188
Term of patent 7 years



The ornamental design for a drawer pull or similar article, substantially as shown.

114,898
DESIGN FOR A DRESS
David Klein, New York, N. Y.
Application April 22, 1939, Serial No. 84,483
Term of patent 3½ years



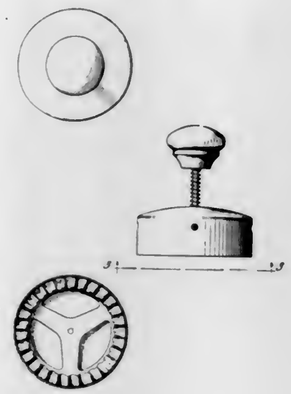
The ornamental design for a dress, substantially as shown.

114,899
DESIGN FOR A COMBINED PENCIL AND THERMOMETER
Joseph G. Lipic, Jr., St. Louis, Mo., assignor to Jos. Lipic Pen Co., St. Louis, Mo., a corporation of Missouri
Application March 30, 1939, Serial No. 83,916
Term of patent 14 years



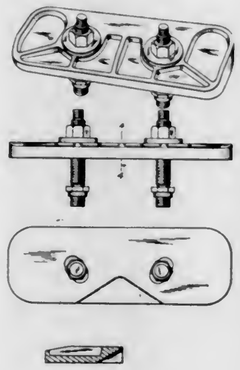
The ornamental design for a combined pencil and thermometer, as shown.

114,900
DESIGN FOR A CULINARY MOLD
Angelo Napolillo, Chicago, Ill.
Application October 13, 1938, Serial No. 80,431
Term of patent 14 years



The ornamental design for a culinary mold, as shown.

114,901
DESIGN FOR A CYLINDER-HEAD PULLER
Floyd L. Niles, Oneida, N. Y.
Application August 18, 1938, Serial No. 79,430
Term of patent 3½ years



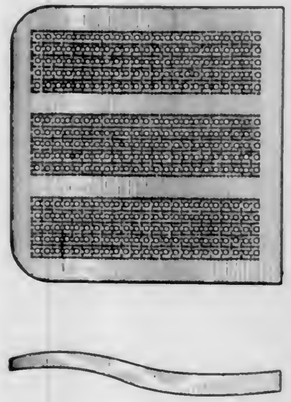
The ornamental design for a cylinder-head puller, as shown.

114,902
DESIGN FOR A SCAFFOLD END FRAME
Roy M. Norton, Port Huron, Mich., assignor to The Safway Steel Scaffolds Co. of Wisconsin, Wauwatosa, Wis., a corporation of Wisconsin
Application March 29, 1939, Serial No. 83,903
In Canada March 16, 1939
Term of patent 14 years



The ornamental design for a scaffold end frame, as shown.

114,903
DESIGN FOR A CHAIR SEAT
John B. O'Connor, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application May 3, 1938, Serial No. 76,946
Term of patent 7 years



The ornamental design for a chair seat, substantially as shown and described.

114,904
DESIGN FOR A COAT
Adolph Oppenheimer, New York, N. Y.
Application March 18, 1939, Serial No. 83,661
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

114,905
DESIGN FOR A PIN OR SIMILAR ARTICLE
Oreste Pennino, New York, N. Y.
Application April 1, 1939, Serial No. 83,967
Term of patent 3½ years



The ornamental design for a pin or similar article, as shown.

114,906
DESIGN FOR A HAT
Aaron Rothchild, New York, N. Y.
Application April 6, 1939, Serial No. 84,078
Term of patent 3½ years



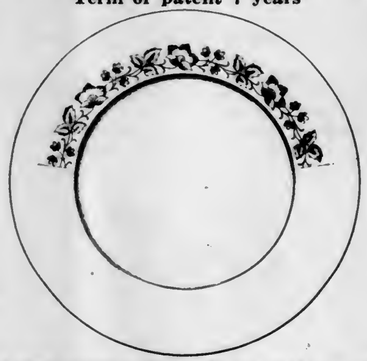
The ornamental design for a hat, substantially as shown.

114,907
DESIGN FOR A WEDDING GOWN
Murray J. Shapiro, New York, N. Y.
Application May 1, 1939, Serial No. 84,693
Term of patent 3½ years



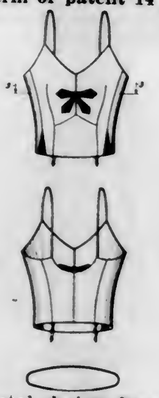
The ornamental design for a wedding gown, substantially as shown.

114,908
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Victor Skellern, Fenton, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y., a corporation of New York
Application March 11, 1939, Serial No. 83,508
Term of patent 7 years



The ornamental design for a plate or similar article, as shown and described.

114,909
DESIGN FOR A BRASSIÈRE
Sara Stein, New York, N. Y.
Application March 31, 1939, Serial No. 83,947
Term of patent 14 years



The ornamental design for a brassière, substantially as shown and described.

114,910
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application May 1, 1939, Serial No. 84,692
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,911
DESIGN FOR A BADGE OR SIMILAR ARTICLE
George A. Thoresen, Providence, R. I., assignor to The Seventh Worlds Poultry Congress and Exposition, Cleveland, Ohio
Application April 3, 1939, Serial No. 84,002
Term of patent 3½ years



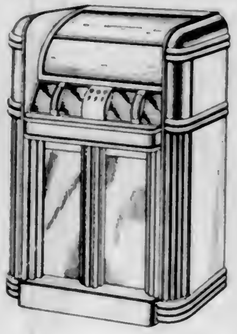
The ornamental design for a badge or similar article, as shown and described.

114,912
DESIGN FOR A CRUTCH OR SIMILAR ARTICLE
Clifford D. Upton, Covington, Ohio
Application November 25, 1938, Serial No. 81,339
Term of patent 14 years



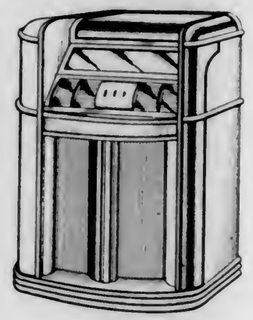
The ornamental design for a crutch or similar article, substantially as shown and described.

114,913
DESIGN FOR A PHONOGRAPH CABINET
Lloyd J. Andres, Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich., a corporation of Michigan
Application March 18, 1939, Serial No. 83,679
Term of patent 7 years



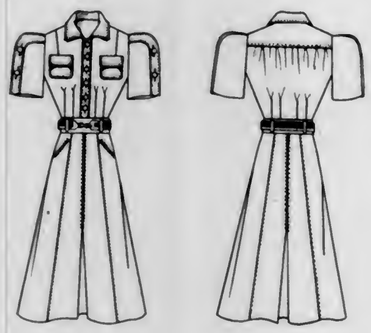
The ornamental design for a phonograph cabinet, as shown and described.

114,914
DESIGN FOR A PHONOGRAPH CABINET
Lloyd J. Andres, Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich., a corporation of Michigan
Application March 18, 1939, Serial No. 83,680
Term of patent 7 years



The ornamental design for a phonograph cabinet, as shown and described.

114,915
DESIGN FOR A DRESS
Abraham T. Berman, New York, N. Y.
Application April 18, 1939, Serial No. 84,367
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,916
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Edmond P. Bixer, New York, N. Y.
Application January 17, 1939, Serial No. 82,397
Term of patent 7 years



The ornamental design for a textile fabric or similar article, as shown and described.

114,917
DESIGN FOR A SHOE
William F. Cairns, New Haven, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 5, 1939, Serial No. 84,059
Term of patent 7 years



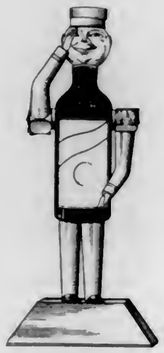
The ornamental design for a shoe, as shown.

114,918
DESIGN FOR A SHOE
William F. Cairns, New Haven, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 5, 1939, Serial No. 84,060
Term of patent 7 years



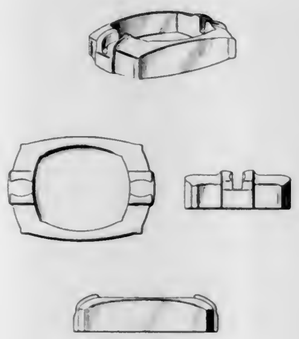
The ornamental design for a shoe, as shown.

114,919
DESIGN FOR AN AUTOMATON ADVERTISING AND MERCHANDISING DEVICE
Frank L. Dale, New York, N. Y., assignor to Mechanical Man, Inc., New York, N. Y., a corporation of New York
Application January 18, 1939, Serial No. 82,401
Term of patent 14 years



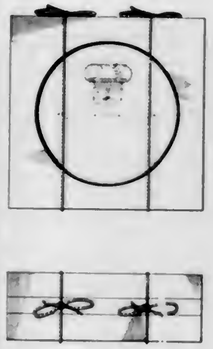
The ornamental design for an automaton advertising and merchandising device, as shown and described.

114,920
DESIGN FOR AN ASHTRAY OR SIMILAR ARTICLE
Herbert Gordon Dyke, New York, N. Y.
Application March 11, 1939, Serial No. 83,519
Term of patent 7 years



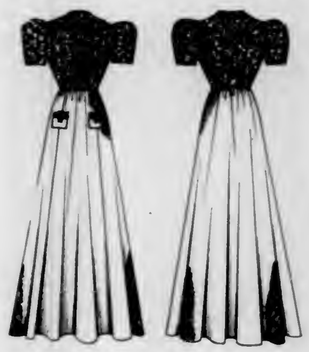
The ornamental design for an ashtray or similar article, substantially as shown.

114,921
DESIGN FOR A COMBINATION BOTTLE AND DISPLAY PACKAGE
Don Eliot, Los Angeles, Calif., assignor to Armand A. Dekama
Application September 20, 1937, Serial No. 71,697
Term of patent 7 years



The ornamental design for a combination bottle and display package, as shown and described.

114,922
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application March 25, 1939, Serial No. 83,834
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,923
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application March 20, 1939, Serial No. 83,684
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,924
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,676
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,925
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,677
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,926
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,678
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,927
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,679
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,928
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,680
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,929
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,681
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,930
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,682
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,931
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,683
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,932
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,684
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,933
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,685
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,934
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,686
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,935
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,687
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,936
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,688
Term of patent 3½ years



The ornamental design for a table cover or similar article, as shown and described.

114,937
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,689
Term of patent 3½ years



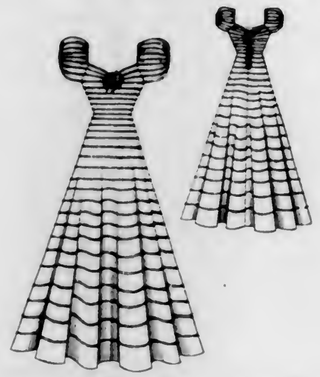
The ornamental design for a table cover or similar article, as shown and described.

114,938
DESIGN FOR A TABLE COVER OR SIMILAR ARTICLE
Gustave F. Erhard, Scranton, Pa.
Application April 29, 1939, Serial No. 84,690
Term of patent 3½ years



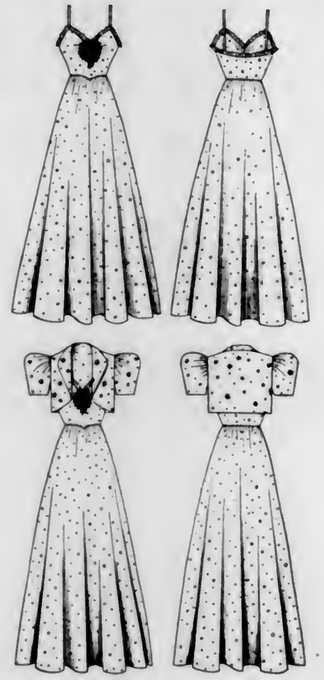
The ornamental design for a table cover or similar article, as shown and described.

114,939
DESIGN FOR A DRESS
Rose Feintuck, New York, N. Y.
Application March 29, 1939, Serial No. 83,904
Term of patent 3½ years



The onamental design for a dress, substantially as shown and described.

114,940
DESIGN FOR A DRESS ENSEMBLE
Rose Feintuck, New York, N. Y.
Application March 29, 1939, Serial No. 83,905
Term of patent 3½ years



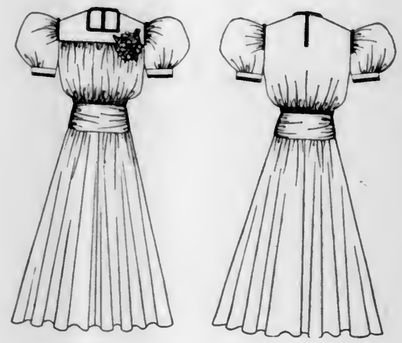
The ornamental design for a dress ensemble, substantially as shown and described.

114,941
DESIGN FOR A COMBINED KEY CASE AND FLASHLIGHT
Irving Florman, New York, N. Y.
Application November 5, 1938, Serial No. 80,892
Term of patent 3½ years



The ornamental design for a combined key case and flashlight, substantially as shown and described.

114,942
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,208
Term of patent 3½ years



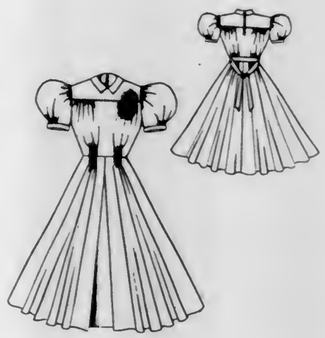
The ornamental design for a dress, substantially as shown.

114,943
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,210
Term of patent 3½ years



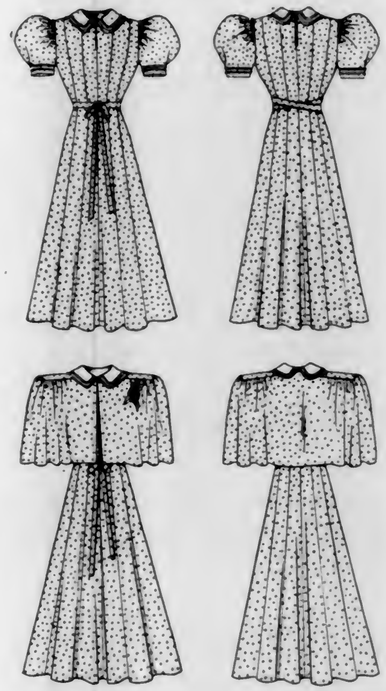
The ornamental design for a dress, substantially as shown.

114,944
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,214
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,945
DESIGN FOR A DRESS ENSEMBLE
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,220
Term of patent 3½ years



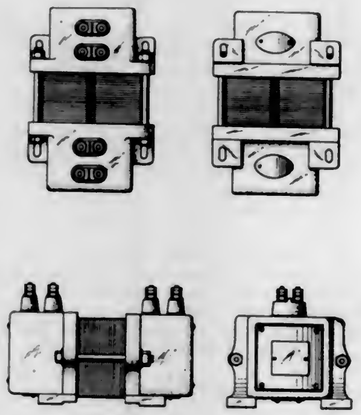
The ornamental design for a dress ensemble, substantially as shown and described.

114,946
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,222
Term of patent 3½ years



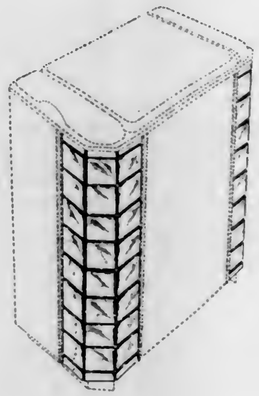
The ornamental design for a dress, substantially as shown.

114,947
DESIGN FOR AN ELECTRICAL TRANSFORMER
Walter J. Garlick, Jr., Glen Ridge, N. J., assignor to American Transformer Company, Newark, N. J.
Application August 13, 1938, Serial No. 79,322
Term of patent 7 years



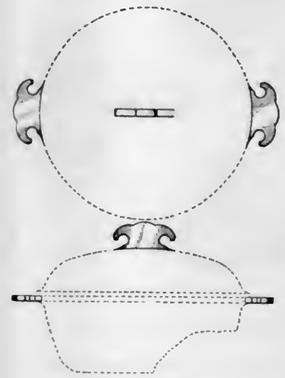
The ornamental design for an electrical transformer, as shown.

114,948
DESIGN FOR A HAMPER OR SIMILAR ARTICLE
Harold Gleitsman, New York, N. Y.
Application July 11, 1938, Serial No. 78,398
Term of patent 14 years



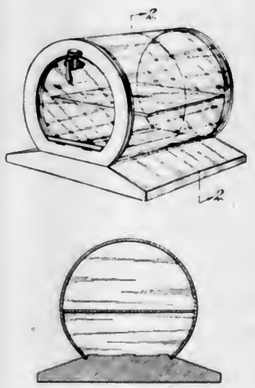
The ornamental design for a hamper or similar article, as shown and described.

114,949
DESIGN FOR A COMBINED COOKING AND SERVING CONTAINER OR SIMILAR ARTICLE
Samuel Hayden and Clair Jacob Amick, Los Angeles, Calif., assignors to Century Metalcraft Corporation, Chicago, Ill., a corporation of Delaware
Application November 28, 1938, Serial No. 81,426
Term of patent 14 years



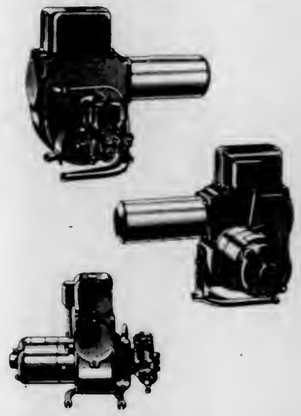
The ornamental design for a combined cooking and serving container or similar article, substantially as shown.

114,950
DESIGN FOR AN INSTRUMENT CABINET
Joseph F. Haynie, Jr., El Dorado, Ark.
Application August 3, 1938, Serial No. 79,082
Term of patent 14 years



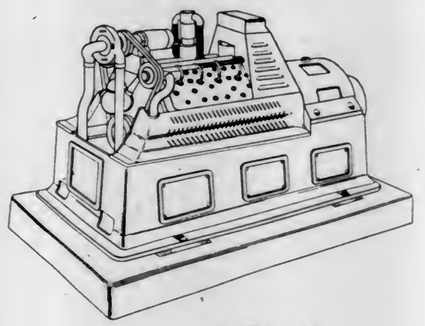
The ornamental design for an instrument cabinet, as shown.

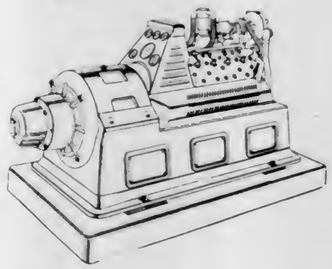
114,951
DESIGN FOR AN OIL BURNER
Frank E. Herr, Lancaster, Pa.
Application January 12, 1939, Serial No. 82,313
Term of patent 14 years



The ornamental design for an oil burner, as shown.

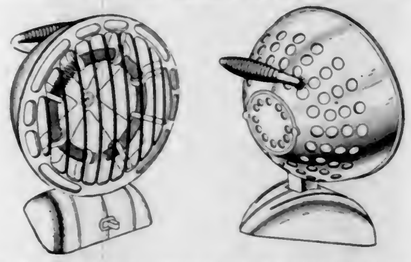
114,952
DESIGN FOR A POWER PLANT UNIT
Fred Jervis, Los Angeles, Calif., assignor to Bardco Corporation of America, Los Angeles, Calif., a corporation of California
Application March 10, 1938, Serial No. 76,032
Term of patent 14 years





The ornamental design for a power plant unit, as shown.

114,953
DESIGN FOR AN ELECTRIC HEATER
Herbert C. Johnson, Wilmette, Ill.
Application January 21, 1939, Serial No. 82,505
Term of patent 14 years



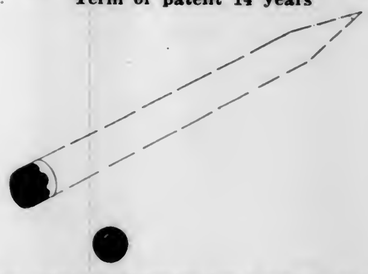
The ornamental design for an electric heater, as shown.

114,954
DESIGN FOR A TIRE
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 31, 1938, Serial No. 74,754
Term of patent 14 years



The ornamental design for a tire, substantially as shown.

114,955
DESIGN FOR A PENCIL
Karl Kreutzer, Nuremberg, Germany, assignor to Firma J. S. Staedtler, Nuremberg, Germany
Application November 21, 1938, Serial No. 81,276
Term of patent 14 years



The ornamental design for a pencil, as shown.

114,956
DESIGN FOR A BADGE
Frank S. Land, Kansas City, Mo.
Application April 3, 1939, Serial No. 84,004
Term of patent 14 years



The ornamental design for a badge, as shown.

114,957
DESIGN FOR A DISPENSER FOR ELASTIC BANDS OR THE LIKE
Otto Lobl, Middleboro, Mass.
Application March 23, 1939, Serial No. 83,801
Term of patent 7 years



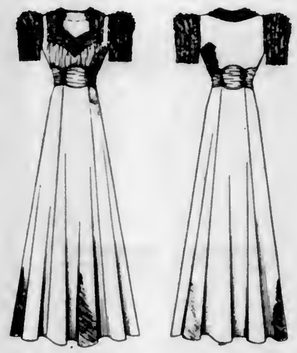
The ornamental design for a dispenser for elastic bands or the like, substantially as shown.

114,958
DESIGN FOR A DRESS AND SLIP ENSEMBLE
Marie V. Mascitelli, New York, N. Y.
Application April 14, 1939, Serial No. 84,287
Term of patent 3½ years



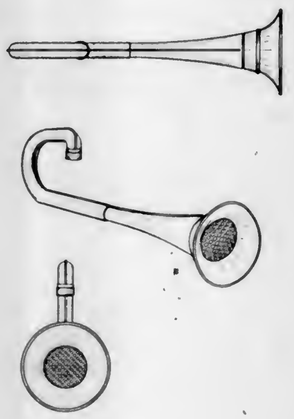
The ornamental design for a dress and slip ensemble, substantially as shown and described.

114,959
DESIGN FOR A DRESS
Helen May, New York, N. Y.
Application March 25, 1939, Serial No. 83,838
Term of patent 3½ years



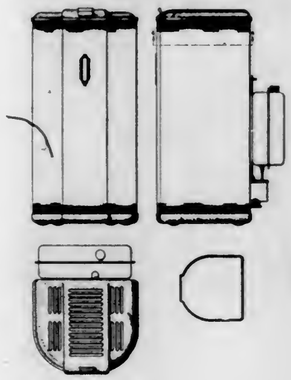
The ornamental design for a dress, substantially as shown and described.

114,960
DESIGN FOR A SOUND-PROJECTOR FOR AUTOMOBILE HORNS OR THE LIKE
Peter Nielsen, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a corporation of Nebraska
Application August 1, 1938, Serial No. 78,996
Term of patent 7 years



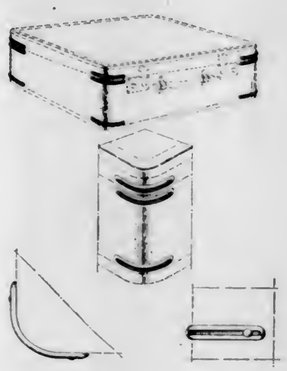
The ornamental design for a sound-projector for automobile horns or the like, as shown.

114,961
DESIGN FOR A HEATING STOVE
Ambrose D. Olds, Wichita, Kans., assignor to Coleman Lamp & Stove Company, Wichita, Kans., a corporation
Application July 25, 1938, Serial No. 78,705
Term of patent 3½ years



The ornamental design for a heating stove, as shown and described.

114,962
DESIGN FOR A SUITCASE OR THE LIKE
Joseph Ortner, Newark, N. J.
Application January 28, 1939, Serial No. 82,646
Term of patent 3½ years



The ornamental design for a suitcase or the like, as shown and described.

114,963
DESIGN FOR A PHOTOGRAPHIC BIRTHSTONE BRACELET
Theodore Payne, 4th, West Allenhurst, N. J.
Application April 4, 1939, Serial No. 84,039
Term of patent 14 years



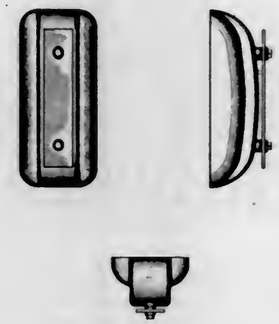
The ornamental design for a photographic birthstone bracelet, as shown.

114,964
DESIGN FOR A DRESS ENSEMBLE
Marguerite Reirden Richardson and Eugenia Staber, New York, N. Y.
Application April 26, 1939, Serial No. 84,580
Term of patent 3½ years



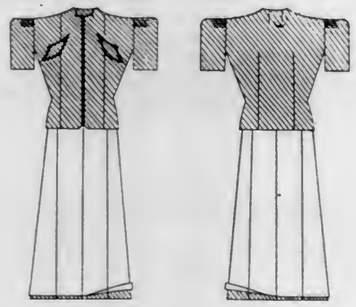
The ornamental design for a dress ensemble, substantially as shown, and described.

114,965
DESIGN FOR A SIGNAL DEVICE
Lloyd Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Application April 13, 1939, Serial No. 84,259
Term of patent 14 years



The ornamental design for a signal device, as shown.

114,966
DESIGN FOR A DRESS
Nathan Rolfe, New York, N. Y.
Application March 8, 1939, Serial No. 83,417
Term of patent 3½ years



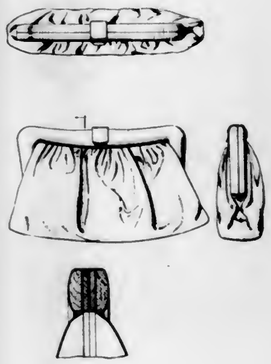
The ornamental design for a dress, substantially as shown and described.

114,967
DESIGN FOR AN ALPHABET OR SIMILAR ARTICLE
Ole H. Sam, Stillwater, Minn.
Application August 9, 1938, Serial No. 79,205
Term of patent 7 years



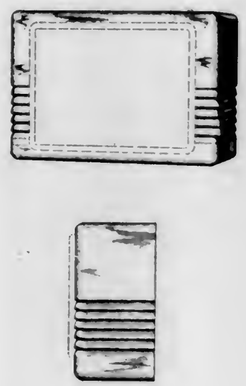
The ornamental design for an alphabet or similar article, as shown and described.

114,968
DESIGN FOR A HANDBAG
Ludwig S. Schlessinger, New York, N. Y.
Application November 12, 1938, Serial No. 81,041
Term of patent 3½ years



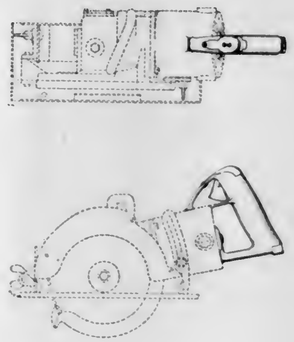
The ornamental design for a handbag, as shown and described.

114,969
DESIGN FOR A CLOCK CASE OR SIMILAR ARTICLE
Charles B. Simmons, Bristol, Conn., assignor to The Sessions Clock Company, Forestville, Conn., a corporation of Connecticut
Application April 13, 1939, Serial No. 84,269
Term of patent 3½ years



The ornamental design for a clock case or similar article, substantially as shown and described.

114,970
DESIGN FOR AN ELECTRIC HAND SAW
Bolton Sullivan, Winnetka, Ill., assignor to Skilsaw, Inc., Chicago, Ill., a corporation of Delaware
Application April 1, 1938, Serial No. 76,217
Term of patent 14 years



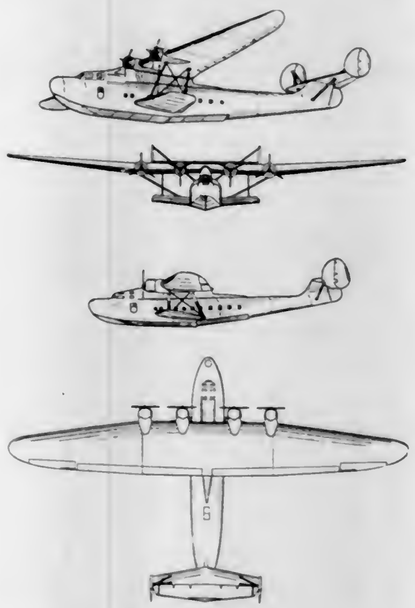
The ornamental design for an electric hand saw, as shown and described.

114,971
DESIGN FOR A DRESS
Sarah Wicha, New York, N. Y.
Application April 29, 1939, Serial No. 84,662
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

114,972
DESIGN FOR AN AIRPLANE
Berthoud C. Boulton, Towson, and Lewis C. McCarty, Jr., Baltimore, Md., assignors to The Glenn L. Martin Company, Baltimore, Md.
Application January 21, 1938, Serial No. 74,456
Term of patent 14 years



The ornamental design for an airplane, substantially as shown.

114,973
DESIGN FOR A CUSHION OR SIMILAR ARTICLE
Martin J. Eckman, Jamestown, N. Y.
Application April 8, 1939, Serial No. 84,161
Term of patent 3½ years



The ornamental design for a cushion or similar article, substantially as shown.

114,974
DESIGN FOR A DRESS
Harry Goldman, New York, N. Y.
Application December 16, 1938, Serial No. 81,807
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

114,975
DESIGN FOR A COAT
Benjamin Goldschmidt, New York, N. Y.
Application April 26, 1939, Serial No. 84,571
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

114,976
DESIGN FOR A DOG SWEATER
Marie Laczko, New York, N. Y.
Application September 12, 1938, Serial No. 79,843
Term of patent 14 years



The ornamental design for a dog sweater, as shown and described.

114,977
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE
Alma Lang, New York, N. Y.
Application January 26, 1939, Serial No. 82,616
Term of patent 3½ years



The ornamental design for a textile fabric or similar article of manufacture, substantially as shown.

114,978
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE
Alma Lang, New York, N. Y.
Application January 26, 1939, Serial No. 82,617
Term of patent 3½ years



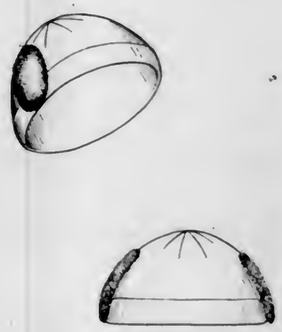
The ornamental design for a textile fabric or similar article of manufacture, substantially as shown.

114,979
DESIGN FOR AN ORNAMENTATION TRANSFER SHEET FOR CHINAWARE OR THE LIKE
John H. Perry, Harrow, England, assignor to Colclough China Ltd., a limited company
Application January 23, 1939, Serial No. 82,542
Term of patent 3½ years



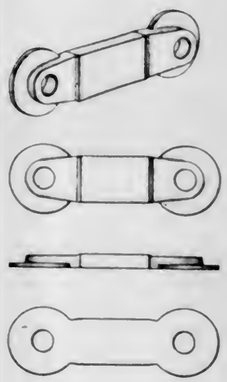
The ornamental design for an ornamentation transfer sheet for chinaware or the like, as shown.

114,980
DESIGN FOR A CAP
Frank J. Wengen, Milwaukee, Wis., assignor to Eagle Knitting Mills, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application January 3, 1939, Serial No. 82,129
Term of patent 7 years



The ornamental design for a cap, as shown.

114,981
DESIGN FOR AN AUTOMOTIVE SPRING SHACKLE SIDE LINK
Charles H. Sayre, Elmira, N. Y., assignor to Trayer Products, Incorporated, Elmira, N. Y., a corporation of New York
Application March 22, 1939, Serial No. 83,753
Term of patent 14 years



The ornamental design for an automotive spring shackle side link, substantially as shown.

114,982
DESIGN FOR A TEXTILE FABRIC
Louis Lazare, New York, N. Y.
Application April 20, 1939, Serial No. 84,406
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

114,983
DESIGN FOR A HANDBAG
Lawrence Moss, New York, N. Y.
Application March 17, 1939, Serial No. 83,633
Term of patent 3½ years



The ornamental design for a handbag, substantially as shown.

Patents Nos. 2,159,959 to 2,160,804

THE OFFICIAL GAZETTE

OF THE

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May 30, 1939

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Patents	846—No.	2,159,959 to No.	2,160,804, inclusive.
Designs	113—No.	114,984 to No.	115,096, inclusive.
Total	1,299		

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., May 5, 1939.*

Walter A. Alderman, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Texas Citrus Fruit Growers Exchange, Mission, Tex., to effect the cancellation of trade-mark registration No. 212,023, issued April 20, 1926, to Walter A. Alderman, Thirteenth and B Streets, Sacramento, Calif., and a notice of such proceeding sent by registered mail to said Alderman at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Walter A. Alderman, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., May 15, 1939.*

Advance Neckwear Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Stetson Shirt Co., Inc., 1182 Broadway, New York, N. Y., to effect the cancellation of trade-mark registration No. 238,799, issued February 14, 1928, to Advance Neckwear Co., 37–39 East Twenty-first Street, New York, N. Y., and a notice of such proceeding sent by registered mail to said Advance Neckwear Co. having been returned by the post office as undeliverable, notice is hereby given that unless said Advance Neckwear Co., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., May 19, 1939.*

West Indies Fruit Importing Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Hawaiian Pineapple Company, Ltd., Iwelei Road, Honolulu, Territory of Hawaii, and 215 Market Street, San Francisco, Calif., to effect the cancellation of trade-mark registration No. 238,184, issued January 31, 1928, to West Indies Fruit Importing Company, 1425 South Racine Avenue, Chicago, Ill., and a notice of such proceeding sent by registered mail to said West Indies Fruit Importing Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said West Indies Fruit Importing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,071,389, E. V. Crowell, Well cementing, decided May 11, 1939, claims 1, 4, 5, 6, and 7.

Pat. 2,132,139, S. N. Wight, Railway traffic controlling system, decided May 9, 1939, claim 1.

Transfer of Subclass

ORDER No. 3,473

U. S. PATENT OFFICE, *Washington, D. C., May 12, 1939.*

The following transfer, to take effect Monday, May 15, 1939, is hereby ordered:

Class 18, subclass 53, from Division 50 to Division 15.

CONWAY P. COE,
Commissioner.

Condition of Applications Under Examination at Close of Business May 13, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,796; Trade-Mark Division, 1,473. Oldest new case, Oct. 1, 1938; oldest amended, Aug. 15, 1938.)
(The dates given are 1938 except where † indicates 1939)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Dec. 13	Dec. 14	727
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 19	Dec. 9	633
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Mar. 14	†Mar. 16	367
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	†Feb. 6	†Feb. 1	429
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Feb. 17	†Feb. 17	538
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Nov. 12	Nov. 12	1126
5725	7. JARBOE, C. G., Optics; Photography	†Jan. 31	†Jan. 23	896
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Dec. 23	Aug. 15	945
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Jan. 14	†Jan. 13	607
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	†Jan. 25	†Feb. 16	604
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 27	†Feb. 8	444
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Dec. 2	Nov. 18	598
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 5	Dec. 2	670
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Mar. 1	†Feb. 21	440
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 30	Dec. 30	1144
5716	16. SPENCER, C. J., Telegraphy; Telephony	Dec. 9	Dec. 6	785
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Jan. 7	Dec. 15	462
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 9	Nov. 30	549
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	†Jan. 20	†Jan. 9	452
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	†Feb. 20	†Feb. 23	324
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Dec. 30	†Feb. 21	507
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	†Jan. 3	†Jan. 3	822
7624	23. BUTTNER, W. J., Registers (part)	Oct. 22	Oct. 24	275
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 16	Dec. 1	992
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Feb. 3	†Feb. 1	467
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	†Jan. 13	†Jan. 13	603
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Nov. 4	Oct. 18	1076
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	†Jan. 17	†Jan. 13	494
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Oct. 15	Dec. 8	643
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 29	Dec. 1	868
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	†Feb. 13	†Feb. 13	621
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	†Jan. 3	†Jan. 19	394
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	†Feb. 6	†Feb. 4	659
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	†Feb. 17	Dec. 16	321
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	†Feb. 2	Feb. 2	550
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Dec. 2	Dec. 22	512
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 28	Dec. 19	675
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Nov. 1	Nov. 12	663
4878	39. WHITNEY, F. L., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Feb. 8	†Feb. 9	529
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Dec. 15	Dec. 13	1389
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles	Dec. 7	Dec. 6	324
5882	42. CUTTING, H. O., Electric Signaling	Oct. 31	Oct. 11	625
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	†Jan. 4	†Jan. 4	461
4087 B	44. HARVEY, L. P., Refrigeration	Dec. 7	Dec. 7	612
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	†Jan. 16	†Jan. 21	587
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Dec. 24	Dec. 24	653
6082	47. LOWE, E. R., Clutches; Brakes	†Jan. 30	†Jan. 30	383
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Feb. 21	†Feb. 13	383
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 26	Oct. 15	995
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Nov. 17	Nov. 23	1192
5628	51. BACKUS, C. D., Radiant Energy (part)	†Feb. 7	†Feb. 7	683
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 18	†Jan. 7	799
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	†Jan. 12	†Jan. 7	574
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Feb. 13	†Feb. 17	294
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Oct. 1	Oct. 1	778
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Dec. 6	Dec. 6	1132
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	†Jan. 20	†Jan. 17	451
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	†Feb. 2	†Feb. 1	371
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	†Feb. 3	†Feb. 6	573
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	†Jan. 10	†Jan. 10	434
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Dec. 20	Dec. 20	506
5621	62. PUGH, E. C., Games; Geometrical Instruments	†Feb. 27	†Feb. 14	423
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Dec. 29	†Jan. 4	390
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	†Jan. 14	†Jan. 14	869
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Nov. 18	Dec. 2	594
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†Apr. 12	†Apr. 20	1396
	{Labels and Prints	†May 8	†May 9	77
2605	Designs: H. H. KALUPY	†Mar. 29	†Apr. 24	850

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

EDGAR J. SUMMERHAYS
v.
COE, COMMISSIONER OF PATENTS

No. 7,134. Decided April 10, 1939

DIVISIONAL APPLICATION—CONTINUITY WITH PARENT APPLICATION NECESSARY.

Where during the pendency of an application in the Patent Office certain claims were canceled in response to requirement of division and a patent was issued with the remaining claims, and thereafter the patentee filed a second application for the subject matter of the canceled claims, *Held* that "after the patent issued, there was nothing pending before the Patent Office that could be divided, continued, or amended. Thus, we are of the opinion that the application involved is not a divisional application, but is, and should be treated as, a new application, and hence deprived of the benefit of the prior date."

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Lee L. Townshend for Edgar J. Summerhays.

Mr. R. F. Whitehead for the Commissioner of Patents.

Before GRONER, Chief Justice, and MILLER and VINSON, Associate Justices

VINSON, *A. J.*:

The appellant, Edgar J. Summerhays, is the assignee of an application for letters patent filed in the United States Patent Office on June 21, 1926, by William C. Scheu for improvement in smokeless orchard heaters. During the pendency of the application, division was required by the Patent Office, which was met by the cancellation of all claims except those which were granted in Patent No. 1,655,569, issued on January 10, 1928. On January 10, 1929, an application was filed for those claims disclosed in that part of the original application which had been cancelled. The oath accompanying this application contained an allegation that the invention was not known or used for more than two years prior to June 21, 1926, the filing date of the original application, and the oath stated this application to be a divisional application. The Patent Office refused to allow this application, as a divisional application, and demanded a new oath to be filed containing the averments required for an original application. The applicant was unable to make this oath because the invention was known and used for two years or more prior to the filing of the so-called divisional application.

Thereupon the appellant brought this action in the United States District Court for the District of Columbia, praying that the Commissioner of Patents be directed to accept the oath now standing in the application and to issue a notice of final allowance of the application. His bill alleges that—

"the present practice of the United States Patent Office with reference to the essential requirement of co-pendency between a divisional application with the original application from which it is divided is without statutory authority and without sanction in the rules of practice of the United States Patent Office."

The district court held that the so-called divisional application cannot be regarded as a divisional application of the original application on which the patent issued, and that the later application can take no benefit from the original application so far as the avoidance of a statutory bar is concerned, and dismissed the bill. Whereupon this appeal was taken.

The sole point for decision is whether or not the application filed on January 10, 1929, is a divisional application based upon, and relating back to, the original application filed on June 21, 1926.

In 1908, we affirmed the long established practice of the Patent Office that—

"if there is a period between the two applications during which neither one of them could, under any circumstances, be considered by the office, there is such a break in the continuity of the two that one cannot be a division of the other."[1]

We said in *In re Spitteler*, 31 App. D. C. 271; 1908 C. D. 374

"This court has held in other cases that, where an original application disclosing two inventions that have been declared separate and distinct is pending in the office, a divisional application is to be regarded as a continuation of the first, so as to give the applicant the benefit of the filing date of the same. *Duryea* v. *Rice*, 28 App. D. C. 423, 425, and cases cited. (See also *Lotz* v. *Kenney*, ante, 205. Had the applicants filed their second application as a division of the first, before the issue of the patent thereon, they would have brought themselves within the rule established by the foregoing decisions.

"But, having amended that application so as to conform to the ruling of the Examiner, it was merged in the patent issued thereon. After that there was no application pending in the office as a foundation for division. The proceeding having been closed by the issue of the patent, there was nothing to be continued. The rule which permits a divisional application to relate back to the filing date of the original, which also discloses its subject-matter, as long as it remains open in the Patent Office, is a very liberal one that sometimes works hardship upon intermediate inventors, and it ought not to be extended to cases not clearly within it." *Fessenden* v. *Wilson*, 48 F.(2d) 422, cert. denied 284 U. S. 640.

The controlling factor in the case at bar is lack of continuity in the proceedings. There was nothing pending before the Patent Office to which the so-called divisional application could relate or attach. The original application was filed, division required, and the claims, which were the basis of the so-called divisional, cancelled. Nothing was done to present, preserve, and continue before the Patent Office that which was cancelled. The only pending application—the original—went to patent. A divisional application "is a form of an amendment"[2] and "is no more than an amendment in the parent application"[3] attaching either to the original application or divisional application then pending, which pendency preserves the continuity and permits the divisional to take the prior date. After the patent issued, there was nothing pending before the Patent Office that could be divided, continued,

[1] *Sarfert* v. *Meyer*, 98 O. G. 793 (1901); *Re Wagner*, Vol. 74 Ms. Dec. 210 (1902).
[2] *Wagenhorst* v. *Hydraulic Steel Co.*, 6 Cir., 27 F.(2d) 27.
[3] *Dwight & Lloyd Sintering Co.* v. *Greenawalt*, 2 Cir., 27 F.(2d) 823.

or amended. Thus, we are of the opinion that the application involved is not a divisional application, but is, and should be treated as, a new application, and hence deprived of the benefit of the prior date.

However, appellant contends that *In re Spitteler*, supra,

"is unsound in law and in fact and has been disproved by later court decisions, particularly Supreme Court decisions."[4]

We cannot agree with either of these contentions. We think *In re Spitteler*, supra, was correctly decided, and that none of the cases cited,[5] or any we have been able to find, overrule this long standing administrative rule affirmed in the Spitteler case, supra. In each of the cases decided by the Supreme Court, and referred to in note (4), supra, there was an application, either original or divisional, yet undisposed of and pending at the time the patent issued, and undisposed of and pending at the time the later divisional application was filed. In each of these cases the later divisional application was "one stage in a continuous effort".[6] Such is not this case.

Affirmed.

U. S. Court of Customs and Patent Appeals

MALM ET AL. *v.* SCHNEIDER

No. 4,001. Decided January 23, 1939.

[100 F.(2d) 201]

INTERFERENCE—PRIORITY.

Record reviewed and *Held* that no testimony having been taken, priority properly awarded the senior party S whose parent application shows a conception and constructive reduction to practice of the process defined by the counts.

APPEAL from Patent Office. Affirmed.

Mr. Newton M. Perrins and *Mr. Daniel I. Mayne* for Malm et al.

Mr. I. Seltzer and *Mr. C. W. Levinson* for Schneider.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office in an interference proceeding affirming the decision of the Examiner of Interferences awarding priority to the party Schneider upon the two counts involved, reading:

1. In a process for the production of low viscosity cellulose acetate, the acetylation step which comprises permitting the temperature of the reaction to rise above normal acetylation temperature for a short period during the esterification and then completing the esterification at normal acetylation temperature.

2. In a process for the production of low viscosity cellulose acetate, the acetylation step which comprises initially acetylating the cellulose for a short period at a temperature higher than normal acetylation temperatures and then completing the acetylation at normal acetylation temperature.

A brief history of the case is as follows:

On May 9, 1933, Patent No. 1,908,524 was issued to Malm et al., assignors to Eastman Kodak Company, upon an application which they had filed December 16, 1929. On June 29, 1933, Schneider copied nine claims of the patent into an application, Serial No. 590,634, which he had filed February 3, 1932, as a continuation of another application which he had filed as Serial No. 231,397, on November 5, 1927, and requested an interference. The Primary Examiner passing upon the matter ex parte held that Schneider's disclosure failed to support the claims and rejected them, denying the interference sought. Schneider appealed ex parte to the Board of Appeals. The Board affirmed as to four of the claims but reversed as to the other five, and an interference was declared with the five thus allowed claims constituting the counts. Malm et al. moved to dissolve chiefly on the ground that Schneider's application did not support the counts and the Primary Examiner, adhering to his former view expressed in the ex parte proceeding, sustained the motion. Upon appeal to the Board, that tribunal affirmed the Examiner's decision as to counts 3, 4, and 5, but reversed as to counts 1 and 2. Schneider took no appeal and so the interference proceeded with only counts 1 and 2 involved. The Examiner of Interferences, citing Patent Office rule 130, held that the question of Schneider's right to make the counts was not before him for determination and, after discussing other questions to which allusion will be made later, awarded priority to Schneider. Upon appeal, the Board again discussed the right of Schneider to make counts 1 and 2, and, adhering to the views formerly expressed in the ex parte decision, affirmed the decision of the Examiner of Interferences.

From such decision the instant appeal was taken.

No preliminary statements seem to have been filed, at least none appears of record, and both sides are confined to their filing dates. It is not questioned that Schneider is entitled to the filing date of his first application, November 5, 1927, for such disclosure as is there made, nor is it claimed that Malm et al. secure any advantage by reason of being patentees; so, the burden rested upon them as the junior parties to establish priority by a preponderance of the evidence.

Neither party took testimony, and as the case is presented before us the issue most strongly emphasized relates to the disclosure, or alleged lack of disclosure, in the original application of Schneider, or, as stated in the brief on behalf of appellants,

"whether the disclosure contained in Schneider's application 231,397 clearly shows a conception and constructive reduction to practice by Schneider of the process defined by counts 1 and 2."

It may be said, however, that a question of estoppel was raised and urged by appellants before the tribunals below and that one of the assignments of error before us relates to this issue, it being stated in the following terms:

6. [The Board erred.] In not holding that Schneider is estopped from claiming the invention defined by counts 1 and 2, in view of Schneider's failure to assert claim thereto until after Malm and Andersen's corresponding Australian Patent No. 27,465 of 1930 had become a publication and until after a copy of the claims of Malm and Andersen's corresponding Canadian application had been submitted to Schneider.

In explanation of the foregoing, it may be said that Malm et al. caused to be introduced into the record certain matter relating to an interference proceeding in Canada, and also a copy of an Australian patent issued to them, or their assignee, corresponding to their United States patent, together with a certificate of the United States Commissioner of Patents that such Australian patent, or a copy thereof, was received in the United States Patent Office March 19, 1931, and had been "available for public use since that date".

The issues which appellants raised, based upon these papers, were discussed by all three of the tribunals, that is by the Primary Examiner, the Examiner of Interferences, and the Board of Appeals, and all concurred in the holding that appellants' contentions regarding them were not well taken.

In the brief on behalf of appellants before us there is no reference to the interference proceedings in Canada and it is assumed that all contentions based upon such proceedings have been abandoned. However that may be, the issue in that regard appears to have been on all fours with one involved in the case of *Ronning Machinery Co.* v. *Winsor*, 22 C. C. P. A. (Patents) 1107, 76 F.(2d) 392, 459 O. G. 207, where we held, as expressed in the syllabus of that opinion, that—

"The Patent Office tribunals were fully justified in concluding that a concession of priority in connection with an interference pending in the Canadian Patent Office could form no possible basis for the application of the doctrine of estoppel in a United States interference proceeding."

The argument on behalf of appellants with respect to the Australian patent advances the theory that Schneider was "guilty of fatal laches" in copying the claims, they not having been copied until June 29, 1933, while appellants' Australian patent became open to the domestic public in the United States Patent Office March 19, 1931. The principal authority cited as persuasive by appellants is the case of *Hartford-Empire Co.* v. *Conway P. Coe*, 64 App. D. C. 176, 76 F.(2d) 426, 24 U. S. P. Q. 393, 452 O. G. 253, which, in turn, cited the infringement case of *Webster Electric Co.* v. *Splitdorf Electrical Co.*, 264 U. S. 465, 327 O. G. 219.

The cases so cited are not regarded as having any particular pertinency in this proceeding. The question sought to be raised in this connection seems to be one of patentability to Schneider and does not affect the issue of priority nor any question ancillary thereto. *Bloom* v. *Locke & Dosch*, 21 C. C. P. A. (Patents) 888, 69 F.(2d) 113, 444 O. G. 757, and cases therein cited.

Upon the question of Schneider's right to make the counts based upon the disclosure contained in his application of November 5, 1927, Serial No. 231,397, it may be remarked in the first place that, relatively speaking, the counts are quite broad, and it is the well-known rule that in an interference proceeding counts are to be given the broadest interpretation which their language reasonably will permit. As a corollary to the rule, however, we have the other well-known principle that express limitations appearing in counts may not be disregarded, and appellants here urge that the counts involved contain limitations which are not met by Schneider's disclosure.

Appellants' specification states:

The complete process which we have developed comprises the pretreatment of cellulose with acetic acid and a catalyst to prepare the cellulose for better acetylation, followed by an acetylation process which is conducted at a relatively high temperature during the first part of the acetylation, after which the acetylation is continued for a time at what might be termed a normal acetylation temperature; the cellulose acetate so produced may then be hydrolyzed in known manner.

In the decision of the Board here appealed from, it is said:

The subject matter as pointed out by appellants and defined in the counts relates to a process for preparing low viscosity cellulose acetate and includes the acetylation step which comprises permitting the temperature of the reaction to rise above normal acetylation temperature for a short period and then completing the esterification at normal acetylation temperature.

Limitations of the counts particularly emphasized in the brief on behalf of appellants are stated as follows, the italicized phrases indicating the emphasized limitations:

(1) Acetylating at a temperature above normal acetylation temperature (100–110° F.) *for a short period.*
(2) Reducing the reaction temperature to normal acetylation temperature, at the end of the *short period.*
(3) Then completing the acetylation *at the normal* acetylation temperature.

Elsewhere emphasis is placed upon the word "then" appearing in both counts and the brief asserts:

Schneider discloses no lowering of the temperature in his acetylation step; on the contrary he employs *gentle warming* to maintain the temperature reached in the first part of his acetylation. The counts call for acetylating *for a short period* above normal acetylation temperature and *then* acetylating at normal acetylation temperature. Therefore, a definite *lowering* of the temperature during acetylation is necessary to support the counts.

It may be noted that while the above quotation from the brief specifies the "above normal" temperature as 100–110° F., the counts themselves do not specify any degrees. It should also be said that appellants in defining the degree of temperature use the Fahrenheit scale while Schneider uses the centigrade symbol. So in making comparisons it is necessary to convert the respective terms. This the Primary Examiner did in his decision of March 11, 1935, dissolving the interference, in the following language:

The invention is directed to a process for producing low viscosity cellulose acetate, wherein cellulose is initially partially acetylating at temperatures appreciably above 100° F. to 110° F. (37.78° C. to 43.33° C.) and up to 150° F. (65.56° C.) which are above the normal acetylating temperatures employed which are 100° F. to 110° F., for about one and one-half to two hours and then completing the acetylation at 100° F. The last sentence of page 4 of the patented file of Malm et al. defines "normal acetylating temperatures" as ranging from 100° F. to 110° F. (37.78° C. to 43.33° C.) • • •.

It is urged in the argument on behalf of appellants that the counts should be construed in the light of appellants' patent wherein they originated and various phrases of the specification are referred to by way of explanation of the limitations relied upon. It is the rule that where ambiguity is present in counts of a patent they are generally construed in the light of the teachings of the patent, but this rule is followed only in cases of ambiguity.

[4] *Chapman et al.* v. *Wintroath*, 252 U. S. 126; *Webster Elec. Co.* v. *Splitdorf Elec. Co.*, 264 U. S. 463; *Crown Cork & Seal Co.* v. *Ferdinand Gutmann Co.*, 304 U. S. 159; *General Talking Pictures Corp.* v. *Western Elec. Co.*, 304 U. S. 175.

[5] Cf. *Ingersoll-Rand Co.* v. *Westinghouse Elec. Co.*, 19 Fed. Supp. 403.

[6] *Smith* v. *Goodyear Dental Vulcanite Co.*, 93 U. S. 486, 500.

It is argued that the term "short period" is a relative term, and appellants point out that in an example given in their specification an initial acetylation time of "about one and one-half to two hours" is named and that it is said in the specification, with respect to the completion of the acetylation after reducing the temperature, "This usually requires from two to three more hours." Seemingly, appellants would have us now interpret the counts by this example of time, but it is noted that appellants' specification, before giving the example, expressly states "* * * we do not wish to be limited by example * * *."

Argument is also advanced as to the limitation embraced in the phrase "at the normal", referring to the temperature at which acetylation is completed.

The arguments as to all these limitations seem to us to be sufficiently answered in the brief on behalf of Schneider from which we quote the following:

* * * It is quite true that there is not a specific disclosure of the time during which Schneider's acetylation temperature is maintained at 50–55° C., but it is also true that the counts do not call for any specific time. It is, however, quite clear that it is a comparatively short time. When an experimeter gives a direction to acetylate and allow[s] the temperature to rise to 50–55° C. and then to maintain it at 40 or 41 or 42° C. for about 2 hours or longer, the time during which it was maintained at 50–55° C. must be short. Further, it is obvious from a parusal of Schneider's disclosure that his object is precisely the same as Malm et al.'s object in their disclosure. The completion of Malm et al.'s acetylation at normal acetylation temperature, i. e. the second part of his process, takes 2–3 hours * * *. The completion of Schneider's process at 40 or 41° C. etc. takes 2 hours * * *. The peak temperature in Malm et al. may be as high as 150° F. (their patent chart shows 125° F.). The peak temperature of Schneider is 50–55° C., i. e. 122–131° F. Hence it is obvious that with the same peak temperature, the same temperature for completion of the reaction, and the same time for completion of the reaction, and the same ultimate object, the time during which Schneider maintains his peak temperature of 50–55° C. must be of the same order as Malm's. * * *

In the same paragraph at the head of page 22 of their brief, Malm et al. question that Schneider's high temperature treatment (and note the admission that it is a high temperature treatment) is for an initial period or a later period. It is perfectly obvious that it must be an initial period. Just as in the Malm et al. application, so in the Schneider application the peak temperature is produced by the heat of the acetylation itself so that it occurs quite as early in Schneider as it does in Malm et al.

Furthermore, even assuming, without admitting Malm et al.'s warped interpretation of the portions of the Schneider application quoted on pages 18 and 19 of their brief, it is submitted that the Schneider application still affords basis for the express limitations in the counts. Thus in application S. No. 231,397 Schneider, in his specific example after setting out the conditions and duration of the reaction proceeds as follows * * *:

The mass is then lowered to the hydrolizing temperature of below 20 to 30° C. (68 to 86° F.) and a small quantity of water, (say 10 to 40 parts) or water and acetic acid and/or hydrogen peroxide is added for ripening in the usual manner.

Careful consideration has been given to the very elaborate arguments advanced on behalf of appellants, but it seems quite clear to us that the counts contain no limitations which are not fairly supported by Schneider's disclosure.

Other matters suggested in the brief and oral argument for appellants are unimportant in view of our conclusion upon the matter of Schneider's disclosure.

The decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

KEAN *v.* WHEELAN

No. 4,072. Decided March 6, 1939

[— F.(2d) —]

INTERFERENCE—PRIORITY.

Record reviewed and *Held* that priority as to counts 1 and 2 was properly awarded the junior party W who reduced the invention to practice prior to the filing date of the senior party K who, although the first to conceive the invention, failed to establish diligence from just prior to W's conception date until the filing of K's application, and *Held* that as to the remaining count the junior party W did not establish reduction to practice prior to K's filing date and priority should have been awarded to K who was the first to conceive the invention.

APPEAL from Patent Office. Modified.

Mr. Frederic P. Warfield (*Mr. N. R. French* of counsel) for Kean.

Messrs. Watson, Bristol, Johnson, and *Leavenworth* (*Mr. Lawrence Bristol* and *Mr. Norman N. Schuttler* of counsel) for Wheelan.

GARRETT, *P. J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner of Interferences awarding priority to the party Wheelan on three counts of an interference declared between applications for patents relating to photographic apparatus designed, according to statements in the briefs for both parties, to overcome camera shyness on the part of a person being photographed.

The counts read as follows:

1. In photographic apparatus permitting a person to be photographed with the camera hidden from view and permitting the said person to observe by mirror means his pose as seen from the camera, the combination comprising a camera and means for screening the camera from view to prevent the person being photographed from seeing the camera or parts thereof which would otherwise render or have a tendency to render the person camera-conscious, the said means including a light-transmitting screen having a reflecting material forming a partly-transparent mirror, the said screen being positioned between the person to be photographed and the camera lens and having sufficient area to permit the person to observe his image.

2. In photographic apparatus permitting a person to be photographed with the camera hidden from view and permitting said person to observe by mirror means his pose to be photographed by the camera, the combination comprising a camera and partially-reflecting mirror means having a reflecting metal deposited thereon and positioned in the path of the light which is to give rise to the picture, said metal being disposed over a portion of the surface of said mirror means, said portion being of sufficient size to permit an image reflected from said metal to be clearly visible at a substantial distance therefrom, said mirror means being adapted to transmit a greater amount of light than it reflects, said mirror means being so oriented that said metal does not reflect into said picture-taking means light which passes from the sitter to said metal, the surface of said mirror means being substantially perpendicular to the light path.

3. In photographic apparatus permitting a person to be photographed with the camera hidden from view and permitting the said person to observe by mirror means his pose to be photographed, the combination comprising a camera, means for screening the camera from view to prevent the person being photographed from seeing the camera or parts thereof which would otherwise render or have a tendency to render the person camera-conscious, the said means including a rotatably mounted light-transmitting screen having a reflecting material distributed so as to form a partly-transparent mirror, the said screen being positioned between the person to be photographed and the camera lens and having a sufficient area to permit the person to observe his image therein and a plurality of mirrors positioned out of the path of light from said person to the said camera but to one side thereof so as to permit said person to view the said partly-transparent mirror therein thereby permitting a profile or partly profile view to be seen by said person in one of said plurality of mirrors.

A brief but comprehensive description of the invention is stated by the Examiner of Interferences as follows:

The subject matter of the interference relates to a photographic apparatus designed to permit a person to be photographed with a camera hidden from view and at the same time permitting the person photographed to observe his pose in a mirror. This result is accomplished by placing a transparent mirror between the subject and the camera lens thereby allowing the subject to see his reflection in the mirror while at the same time the subject is photographed through the transparent mirror. To permit profiles and semi-profiles the transparent mirror is rotatably mounted and side mirrors permit the subject to view his reflected profile in the transparent mirror.

The application of Kean was filed October 16, 1933, and he now relies on this date for reduction to practice. The application of Wheelan was filed March 28, 1935. The Examiner of Interferences awarded Wheelan conception "as early as December 31, 1927", and reduction to practice "at least as early as June, 1931". He found that Kean conceived the invention in November, 1922, but that he failed to establish diligence from just prior to Wheelan's conception date until the filing of his (Kean's) application.

The Board affirmed the Examiner of Interferences upon all points.

Both parties took testimony much of which was directed to efforts by both parties to establish earlier dates for reduction to practice than those finally awarded. As the case was presented to us, however, no review of that part of the record need be given here. The entire record is quite fully and succinctly reviewed in the decision of the Examiner of Interferences.

Kean does not contend that he has shown diligence during the critical period defined by the Examiner of Interferences. His contention is that there was no burden on him to show diligence because he alleges Wheelan did not establish reduction to practice prior to Kean's filing date.

So, the only issue to be determined here is whether Wheelan did reduce to practice as found by the tribunals of the Patent Office—that is in June, 1931. There was some contention on the part of counsel for Wheelan before us that he was in fact entitled to an earlier date than that awarded him but we do not find it necessary to determine as to that.

The brief on behalf of Kean discusses each count separately, evidently for the purpose of emphasizing certain limitations, particularly limitations in counts 2 and 3, which will be referred to later.

The record embraces as exhibits a very large number of pictures taken by Wheelan in various of his experiments. Many of these are alluded to in the decision of the Examiner of Interferences and rejected as not constituting reduction to practice, it being pointed out that notations made by Wheelan on the backs of many of the pictures showed that he himself considered them as poor. The first pictures deemed by the Examiner of Interferences to meet the requisite test were discussed by him as follows:

In June, 1931, Wheelan used a still faster film known as panchromatic and took the pictures of exhibits 12A, 12B, and 12D of Eva McCoy (nee Kowal). The taking of these pictures is corroborated by McCoy (Kowal) who remembers that the pictures were taken right after her birthday (June 5) in 1931 * * *. She recalls that the year was 1931 by the fact that it was about six months before she was married and the fact that the studios had a big opening in Marshall Field Studio in Chicago * * *.

These pictures are the first taken through the transparent mirror that are of sufficient quality to constitute a reduction to practice, as well as the first that Wheelan considered of good quality as borne out by his notations on the backs thereof as compared with his notations on previous pictures.

For example such notations as:

"The skin texture is wonderful, even if the eyes are too black. If I can get the eye value of super and the speed of pan everything will be O. K." * * *

"I wouldn't want a better picture at any price. Pan is simply sufficiently faster to let enough light through the mirror at a reasonable exposure" * * *.

"She says eyes look too dark but at last I approach quality right through the mirror. Fine enough for a sample anywhere" * * *.

Only two things in the pictures taken with panchromatic film were considered a detriment by Wheelan. First, that light color eyes had a tendency to appear too dark in the picture and second that the film being very sensitive to the full range of light radiations must necessarily be loaded into the holders in absolute darkness.

The fact that light eyes appeared darker while in some cases might be a slight disadvantage in other cases might even be of some slight advantage since women sometimes like their eyes to appear darker.

As to the fact that the film must be necessarily loaded in absolute darkness this was only a detriment due to the fact that Wheelan did not trust his photographers to follow instructions having learned from experience that even simple directions were sometimes disregarded. A careful person skilled in the art would, however, handle the film in accordance with its requirements and no trouble on this score would be experienced.

In the brief for Kean attention is directed to the fact that the first commercial use of a Wheelan apparatus occurred in November, 1934, which was some four months prior to the filing of Wheelan's application, and certain evidence is referred to as indicating that Wheelan was not satisfied with the results obtained in June, 1931, and continued to experiment. The evidence so referred to includes testimony given by a Mrs. Robert Erwin (nee Levorsen), who was in Wheelan's employ, to the effect that Wheelan continued work on the device "Until it was perfected in 1934", explaining that by "perfected" she meant the camera then brought out was "marketable".

The brief then says:

The Examiner's test of reduction to practice was, as heretofore noted, "a picture which is of sufficiently good quality to be accepted by a purchaser". When the Examiner and Board say these June, 1931, photographs attained such quality, they do so in the face of Mrs. Erwin's (Levorsen) testimony that Wheelan's photographs only attained marketable quality in November, 1934. They have substituted their opinion for that of Wheelan's chief woman employee. The issue is not one of aesthetics but of marketability.

The illogic of the foregoing argument is apparent. The lady said nothing of the "marketable quality" of photographs; she spoke of the marketability of a camera—not the marketing of pictures made with the camera. The Examiner of Interferences had no occasion to concern himself with "marketability" of either the camera or pictures made by use of the camera. In connection with his holding that certain experiments made by Wheelan in 1927 did not constitute reduction to practice he said:

To establish a reduction to practice the utility of the invention must be demonstrated and it is certainly not useful unless a picture which is of sufficiently good quality to be accepted by a purchaser is produced.

The Examiner of Interferences did not hold that a purchaser had to accept a photograph; he merely held that the pictures made in June 1931 were "of sufficient quality to constitute a reduction to prac-

tice" when measured by the rule announced in connection with pictures previously made which were not deemed of sufficient quality.

The foregoing issue evidently was presented to the Board along the same line that it has been presented here. The Board said:

> Kean relies on the testimony of Mrs. Erwin, Wheelan's chief woman employee to establish that Wheelan's device was not marketable until November 1934.
>
> We do not understand the law of reduction to be that the machine must be perfected in a commercial sense. (*Sydeman* v. *Thoma*, 32 App. D. C. 362.) The Examiner has held Exhibits 12A, 12B and 12D as evidence of successful reduction to practice but Kean contends that this holding is arbitrary in view of Wheelan's testimony regarding the darkness of the eyes. We agree with the Examiner that the photographs are sufficient to establish reduction to practice of the apparatus of count 1.

In our opinion there is no error of law in the foregoing, and, if the photographs made in June, 1931, were made with apparatus which responds to the counts there should be no reversal of the Board's decision.

Counsel for appellant stresses certain structural features which he argues were not shown to have been present in the apparatus used by appellee in the latter's June, 1931, activities. One of these cominon to all the counts is a "camera hidden from view". The gist of the argument respecting this feature is to the effect that certain evidence shows that appellee's commercial device, not put into use until November, 1934, does not show a camera "concealed as the counts call for", and it is urged that if the camera is not concealed in the commercial device "it is certain that it was no better concealed during the early experiment * * *."

Obviously, we are not here interested in the showing made in appellee's commercial device and express no opinion with respect to it. The matter of importance relates to the means used in the alleged reduction to practice. It is our view that the evidence cited by the Examiner of Interferences is quite sufficient to establish the use of a hidden camera at that time.

A second feature relates to the character of mirror required. As we understand this feature, the mirror device must have a portion of its surface treated with a reflecting metal or material, so that such portion will reflect the image of the subject being photographed, and have another portion which is transparent through which the picture may be taken by the lens. Further, we understand that the reflective or coated portion serves as a screen which conceals the camera from the view of the subject. Appellant disclosed for this feature a mirror which the brief on his behalf refers to as a "scored" mirror. From the specification it appears that the "scoring" may be accomplished by removing portions of the reflecting metal or by failing to coat parts of the mirror so that transparent lines or spaces are left through which light will pass, and it is the contention of counsel for appellant that only a "scored" mirror meets the requirement of the counts, particularly count 2, with respect to which it is pointed out that it originated with Kean, and the argument is made that, therefore, it must be interpreted in the light of his specification. The counts do not use the word "scored", nor does the Kean specification use it. Specifically the limitation relating to the reflecting metal as expressed in count 2 reads,

> "said metal being disposed over a portion of the surface of said mirror means, said portion being of sufficient size to permit an image reflected from said metal to be clearly visible at a substantial distance therefrom."

It seems to us that appellant seeks to have us read into count 2 limitations which he himself failed to insert. It is our supposition that the disclosure of Kean supports the count even though it be broader as expressed than it would be if limited by use in it of the word "scored". We are, of course, not at liberty to disregard express limitations in a count of an interference, while giving it the broadest construction reasonable, but, on the other hand, we are not at liberty to read limitations not expressed into limitations which are expressed. Without discussing in detail other limitations in count 2, supra, upon which the brief for appellant makes some comment, we deem it sufficient to say that we do not agree with counsel for appellant that the tribunals of the Patent Office have unduly broadened the count. Upon the contrary, it seems to us that appellant seeks to have it unduly limited by construction. There is a suggestion that under the Board's construction the count might not be patentable over prior art. Patentability is not at issue in this proceeding.

As to counts 1 and 2, therefore, we find ourselves in harmony with the holdings of the tribunals of the Patent Office.

Count 3, however, contains one limitation concerning which we feel constrained to differ. This count requires that there shall be included in the means for screening the camera from view a "*rotatably-mounted* light-transmitting screen". [Italics ours.] As has been indicated we understand this screen to be formed by the reflecting material or coating upon a portion of the mirror. Hence, for such portion to be rotatably mounted the mirror itself must be so mounted. So far as we can determine from the record, the only mounting for the coated mirror shown to have been used by Wheelan in his activities prior to Kean's filing date consisted of a "little slotted base", the use of which Wheelan, in his testimony, described as follows:

> I held this mirror upright by putting it in a little slotted base for the purpose of holding it so it wouldn't fall forward or backward.

He placed the device so arranged "on a soap box used as a pedestal". Obviously, whatever rotating of the mirror took place was the result of moving the slotted base by hand.

Both the Examiner of Interferences and the Board, pointing out that pivotal mounting is not required, were of the opinion that the arrangement described was sufficient to support the count.

While the issue may be (as it seems to us to be) quite narrow, and perhaps of little practical importance in a patentable sense, we nevertheless are unable to concur in the holding that "rotatably-mounted" is met by such arrangement, and since this is a clearly defined limitation of count 3, we must disagree upon this point.

The decision of the Board is reversed as to count 3, and affirmed as to counts 1 and 2.

Modified.

Patent Suits

[Notices under Sec. 4921, R. S., as amended Feb. 18, 1922]

1,297,188, I. Langmuir, System for amplifying variable currents; 1,639,713, A. F. Sykes, Reproduction of sound; 1,885,001, H. F. Olson, Apparatus for converting sound vibrations into electrical variations; 1,897,732, H. F. Olson et al., System for the conversion and transfer of energy, D. C., S. D. N. Y., Doc. E 81–312, *R. C. A. et al.* v. *Amperite Corp. et al.* Dismissed without prejudice. (Notice Nov. 6, 1935.)

1,478,176, W. R. Coulter, Gear shift and brake control, filed Apr. 7, 1939, D. C., N. D. Ill., Doc. 476, *J. B. Reinhard* v. *Bendix-Westinghouse Automotive Air Brake Co. et al.*

1,562,529, E. A. Trumbo, Binder knotter, filed Apr. 21, 1939, D. C., N. D. Ill., Doc. 502, *E. A. Trumbo* v. *Internat'l Harvester Co.*

1,602,510, J. A. Spencer, Thermostatic control; 1,697,886, same, Temperature-controlling apparatus; 1,718,749, L. K. Marshall, Heat control; 1,776,012, J. A. Spencer, Electrical switch for thermostats, etc.; 1,813,776, same, Thermostat; 1,845,997, same, Temperature controlled apparatus; 1,897,316, L. K. Marshall, Thermostatic switch, filed Mar. 23, 1938, D. C., N. D. Ill., W. Div., Doc. 621, *Spencer Thermostat Co. et al.* v. *Micro Switch Corp.*

1,605,445, F. L. Killian, Machine for manufacturing thin rubber articles, D. C., N. D. Iowa (Cedar Rapids), Doc. 3–Civ., *F. B. Killian et al.* v. *Silver Brands, Inc., et al.* Default judgment against defendant, Apr. 4, 1939.

1,621,266, L. Marx, Toy; Re. 20,504 (of 2,055,848), same, Toy pursuit car, D. C., S. D. N. Y., Doc. E 85–336, *Louis Wolf & Co., Inc.*, v. *Louis Marx & Co., Inc., et al.* Complaint and counterclaim dismissed. (Notice Sept. 29, 1937.)

1,628,299, G. B. Aufsesser, Hairbrush, filed Apr. 24, 1939, D. C., N. D. N. Y., Doc. 177–Civ., *Pro-Phy-Lac-Tic Brush Co.* v. *Mohawk Brush Co.*

1,639,713. (See 1,297,188.)

1,658,678, W. B. Heiniger, Automatic pressure retaining and sustaining valve for air-brake systems, filed Apr. 11, 1939, D. C., S. D. N. Y., Doc. Civ. 3–235, *Richard Irvin & Co. et al.* v. *New York Central Railroad Co.*

1,697,886. (See 1,602,510.) 1,718,749. (See 1,602,510.)

1,758,972, C. W. Pressley, Piano; Des. 75,870, same, Golden harp piano, filed Apr. 17, 1939, D. C., S. D. Calif., Doc. 328–M, *C. W. Pressley* v. *William Odenthal et al.* (*J–C Electric Co.*).

1,776,012. (See 1,602,510.)

1,799,471. (See Re. 16,878.)

1,813,776. (See 1,602,510.) 1,845,997. (See 1,602,510.)

1,855,916, C. H. Keeney, Tufting attachment for sewing machines, D. C., —, —, Doc. 135–Eq., *Deltox Rug Co.* v. *Lanctex, Inc.* Consent decree holding plaintiff's patent infringed, injunction Apr. 15, 1939.

1,867,445, R. H. Dills, Swimming suit, D. C. Oreg., Doc. E 9602, *R. H. Dills* v. *Jantzen Knitting Mills.* Dismissed Apr. 17, 1939. Doc. E 9603, *R. H. Dills* v. *Columbia Knitting Mills.* Same as above.

1,870,119, G. A. Hughes, Airplane, D. C. Nebr. (Lincoln), Doc. 15–Civ., *G. A. Hughes* v. *United Air Lines, Inc.* Dismissed without prejudice Apr. 22, 1939.

1,880,192. (See 1,963,348.) 1,885,001. (See 1,297,188.)
1,897,316. (See 1,602,510.) 1,897,732. (See 1,297,188.)

1,924,976, L. H. Brown, Centrifugal casting machine; 1,962,705, same, Centrifugal casting, filed appeal Apr. 14, 1939, C. C. A., 10th Cir., Doc. 1882, *Haynes Stellite Co.* v. *Osage Metal Co., Inc.*

1,962,264, H. Veit, Hair cutting and thinning shears, C. C. A., 2d Cir., Doc. —, *Jetter & Scheerer Products, Inc.*, v. *Gibbs & Co. Inc.* Decree affirmed. (Notice Jan. 31, 1939.)

1,962,705. (See 1,924,976.)

1,963,348, 1,963,349, E. E. Boyce, Sewing machine; 1,984,772, W. C. Stewart, Combined looper and loop cutting attachment for sewing machines; 1,880,192, E. E. Boyce, Sewing machine, D. C., —, —, Doc. 142–Eq., *Boysell Co.* v. *O'Jay Bedspread Co.* Patent held infringed by defendant, injunction Apr. 15, 1939. Doc. 144–Eq., *Boysell Co.* v. *Lawtex, Inc.* Same as above.

1,963,349. (See 1,963,348.)

1,971,722, N. H. Mann, Animated motion picture, filed Apr. 19, 1939, D. C., S. D. Calif., C. Div., Doc. 334–H–Civ., *Ned Mann Co.* v. *Walt Disney Enterprises et al.*

1,980,445, M. Sherover, Mattress; 1,994,234, same, Air ventilated sanitary mattress, filed Apr. 15, 1939, D. C., S. D. N. Y., Doc. Civ. 3–272, *M. Sherover* v. *John Wanamaker.*

1,984,772. (See 1,963,348.) 1,994,234. (See 1,980,445.)

1,994,984, S. De Orlow, Vehicle jacking structure; 2,013,918, T. J. Kelleher, Lifting jack, filed Apr. 17, 1939, D. C., W. D. Mich., Doc. 38, *Ryerson & Haynes, Inc. et al.* v. *Auto Specialties Manufacturing Co.*

1,999,011, J. J. Wasser, Display device, filed Apr. 20, 1939, D. C., S. D. N. Y., Doc. Civ. 3–314, *Pevely Dairy Co.* v. *S. Tucker.*

2,000,906, C. S. Turner, Method of and apparatus for superheating; 2,000,907, same, Superheater assembly; 2,001,556, same, Fluid cooled superheater construction; 2,046,349, same, Superheating water tube boiler; 2,104,937, same, Boiler superheater; 2,119,451, same, Superheating apparatus, filed Apr. 19, 1939, D. C., E. D. Mich., S. Div., Doc. 1009, *C. S. Turner* v. *Charles McIntosh et al.*

2,000,907. (See 2,000,906.) 2,001,556. (See 2,000,906.)

2,007,607, G. W. Johnson, Pressing machine control mechanism therefor, C. C. A., 10th Cir., Doc. 1761, *American Laundry Machinery Co.* v. *L. N. Strike* (*Western Laundry Press Co.*). Decree reversed, cause remanded with direction to dismiss Apr. 10, 1939, Doc. 1762, *L. N. Strike* v. *American Laundry Machinery Co.* Same as above.

2,010,861, H. V. James, Vulcanizing device; 2,112,440, same, Tire vulcanizer, filed Apr. 17, 1939, D. C., N. D. Tex., Doc. 28–Civ., *O. K. Rubber Welding System et al.* v. *H. R. Handley.*

2,013,918. (See 1,994,984.)

2,031,642, E. J. Graf, Illuminated decorative device; 2,097,061, same, same; Des. 94,889, same, Light emitting decorative device; Des. 94,890, same, Decorative holder for light-emitting members; Des. 101,217, same, Light emitting decorative device, filed Apr. 18, 1939, D. C., S. D. N. Y., Doc. Civ. 3–291, *G. B. G. Corp.* v. *New York Merchandise Co., Inc.*

2,032,915, V. W. Cunningham, Tumbler washing device; 2,032,916, same, Method of and apparatus for washing glasses and the like; 2,153,238, same, Method of and apparatus for washing receptacles such as tumblers and the like, filed Apr. 7, 1939, D. C., N. D. Ill., Doc. 478, *V. W. Cunningham* v. *Hobart Manufacturing Co.*

2,032,916. (See 2,032,915.)

2,042,439, Re. 20,624 (of 2,042,439), L. J. White, Storage and dispensing apparatus for liquefied gas, D. C., S. D. Tex., Doc. 784, *Southern Steel Co.* v. *S. J. Eubank* (*Eubank Plumbing Co. and Ideal Butane Gas Co.*). Re. 20,624 held valid, Apr. 18, 1939.

2,046,349. (See 2,000,906.)

2,077,367, J. A. Hanley, Shaving device; 2,102,529, same, Hair clipper, D. C., S. D. Calif., Doc. Eq.–1340–J, *Clipshave, Inc.*, v. *Motoshave Inc. et al.* Dismissed without prejudice Apr. 14, 1939.

2,085,645, M. S. Fish, Farm float, filed Apr. 3, 1939. D. C., E. D. Ark., Doc. LR–119, *M. S. Fish* v. *Frank Stipisky et al.*

2,097,061. (See 2,031,642.)

2,100,868, A. Oppenheimer, Jr., Slip cover for furniture, D. C. Md., Doc. 2541–Eq., *Comfy Manufacturing Co.* v. *Hutzler Brothers Co.* Dismissed Mar. 14, 1939.

2,102,529. (See 2,077,367.) 2,104,937. (See 2,000,906.)

2,112,440. (See 2,010,861.) 2,119,451. (See 2,000,906.)

2,142,904, A. E. Lamarthe, Closing device for receptacles, D. C., S. D. N. Y., Doc. Civ. 3–31, *Fa-Cile Fastener Corp.* v. *Ansonia De Luxe Shops, Inc.* Consent decree favor of plaintiff, patent sustained and infringed, injunction. (Notice Mar. 13, 1939.)

2,143,677, R. H. Bradwell, Tufting machine; 2,143,678, 2,143,679, R. E. Baggett et al., Tufting machine, D. C., —, —, Doc. 280–Civ., *Polly Prentiss, Inc., et al.* v. *O'Jay Bedspread Co. et al.* Patent held infringed, injunction Apr. 15, 1939. Doc. 281–Civ., *Polly Prentiss, Inc., et al.* v. *Lawtex, Inc.* Same as above.

2,143,678. (See 2,143,677.) 2,143,679. (See 2,143,677.)

2,147,178, E. O. Shreffler et al., Front brake plate and radius arm tension spring, D. C., N. D. Ill., Doc. 441, *Automotive Improvement Co. et al.* v. *Louis Reigle (Reigle Coil Brake Spring Co.) et al.* Patent held valid and infringed Apr. 13, 1939.

2,151,907, L. R. Fink, Film processing device, filed Apr. 17, 1939, D. C., S. D. N. Y., Doc. Civ. 3–277, *Fink-Roselieve Co., Inc.*, v. *Camera House, Inc.*

2,153,238 (See 2,032,915.)

Re. 16,878 (of 1,604,179), C. H. Leach, Refining apparatus; Re. 19,377 (of 1,821,346), same, same; Re. 19,378 (of 1,821,347), same, Oil refining apparatus; 1,799,471, same, Heat-exchange apparatus, C. C. A., 2d Cir., Doc. —, *C. H. Leach* v. *Ross Heater & Manufacturing Co., Inc.* Decree reversed. (Notice Feb. 15, 1939.)

Re. 19,377. (See Re. 16,878.)

Re. 19,378. (See Re. 16,878.)

Re. 20,504. (See 1,621,266.)

Re. 20,624. (See 2,042,439.)

Des. 75,870. (See 1,758,972.)

Des. 94,889. (See 2,031,642.)

Des. 94,890. (See 2,031,642.)

Des. 101,217. (See 2,031,642.)

Des. 102,700, R. Pancotti, Accordion, D. C., S. D. N. Y., Doc. E 85–95, *Excelsior Accordions, Inc.*, v. *Catena Accordion Corp.* Dismissed without prejudice. (Notice May 8, 1937.) Doc. E 85–96, *Excelsior Accordions, Inc.*, v. *New York Band Instrument Co., Inc.* Same as above. (Notice May 8, 1937.)

Des. 103,046, A. R. Ellis, Sign, D. C., N. D. Iowa (Cedar Rapids), Doc. Civ–2, *Flournoy Corey* v. *Checker Electric Supply Co., Inc.* Dismissed Apr. 3, 1939.

Des. 104,557, A. S. Campbell, Vertical bumper, filed Apr. 13, 1939, D. C., S. D. N. Y., Doc. Civ. 3–259, *A. S. Campbell Co., Inc.*, v. *Rosy's Accessories, Inc.*

Des. 114,168, E. S. Berliner, Folding curler comb, filed Apr. 24, 1939, D. C., S. D. N. Y., Doc. Civ. 3–332, *Injection Moulding Corp.* v. *Lapin Products, Inc.*

Des. 114,284, D. Klein, Dress ensemble, filed Apr. 12, 1939, D. C., S. D. N. Y., Doc. Civ. 3–248, *Bachman-Klein, Inc.*, v. *Franken-Keil, Inc.*

Plant Pats. 211, 215, 216, 217, 229, R. H. McKee, Hybrid poplar, D. C. Md., Doc. 72–Civ., *McKee Poplar Forestation, Inc.*, v. *Glatfelter Pulp Wood Co.* Injunction Mar. 21, 1939.

Pl. Pat. 215. (See Pl. Pat. 211.)

Pl. Pat. 216. (See Pl. Pat. 211.)

Pl. Pat. 217. (See Pl. Pat. 211.)

Pl. Pat. 229. (See Pl. Pat. 211.)

Disclaimers

1,964,236.—*Lourde J. Welch*, Chicago, Ill. PRINTING. Patent dated June 26, 1934. Disclaimer filed May 11, 1939, by the assignee, *The Classroom Teacher, Inc.*

Hereby enters this disclaimer to claims 3, 4, and 5 in said specification.

2,105,228.—*William A. Riddell*, Rochester, N. Y. SHUTTER TRIGGER LATCH. Patent dated January 11, 1938. Disclaimer filed May 6, 1939, by the assignee, *Eastman Kodak Company.*

Hereby enters this disclaimer as to claims 1, 2, and 3 of said patent.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS, LABELS, AND PRINTS

RENDERED DURING APRIL, 1939

LOOSE-WILES BISCUIT COMPANY *v.* DALLAS B. LEWIS, Opposition No. 16,377.

In a decision rendered April 11, 1939 (163 Ms. Dec. 266, 41 U. S. P. Q. 247), *Assistant Commissioner Van Arsdale* held that Dallas B. Lewis, of Los Angeles, Calif., is not entitled to register the term "Cheez'o" as a trade-mark for cheese crackers, in view of a prior registration of the mark "Cheez-it" as a trade-mark for the same goods and the prior use of that mark by Loose-Wiles Biscuit Company, of Chicago, Ill.

In his decision the Assistant Commissioner said:

"To my mind the marks in their entirety are so similar in appearance, sound and import as to be confusingly similar, irrespective of whether they are viewed as predominantly descriptive or merely suggestive of cheese crackers. The common word 'cheez' impresses me as being purely descriptive and the suffixes 'o' and 'it' not so dissimilar as to render confusion between the marks 'Cheez'o' and 'Cheez-it' improbable. Therefore I consider the Examiner to have been correct in holding registration No. 151,785 a valid bar under sec. 7 of the Trade-Mark Act to the registration sought by applicant.

"It is also my opinion that the uncontradicted testimony and the exhibits of record on behalf of opposer are sufficient to establish use by opposer of the mark 'Cheez-it' on cheese crackers prior to any use established by applicant of the mark 'Cheez-o' on his goods, and I consider the Examiner's analysis of this testimony to be substantially correct.

* * * * * * *

"In view of the similarity of the marks, the identity of the goods on which the marks are used by the parties, and the prior use by opposer, I consider the opposition to have been properly sustained."

WELLS & RICHARDSON COMPANY, INCORPORATED, *v.* FAN TAN COMPANY, INC., Opposition No. 16,793.

In a decision rendered April 13, 1939 (163 Ms. Dec. 267, 41 U. S. P. Q. 328), *Assistant Commissioner Frazer* held that Fan Tan Company, Inc., of Chicago, Ill., is not entitled to register the notation "Black Diamond" as a trade-mark for hair dye, in view of the prior adoption, use, and registration by Wells & Richardson Company, Incorporated, of Burlington, Vt., of the term "Diamond" as a trade-mark for dyes.

In his decision, after noting the applicant's argument that opposer's dyes are intended only for use with various fabrics and such goods are not of the same descriptive properties as the hair dye of applicant, the Assistant Commissioner said:

"It is my opinion that all dyes are goods of the same descriptive properties within the meaning of the Trade-Mark Act, regardless of the particular use for which they are intended. That confusion would result from the use of applicant's mark on hair dye, and that opposer would thus be damaged by its registration, seems not only likely but well-nigh inevitable."

ROCHESTER PACKING CO., INC., *v.* THE OHIO PROVISION COMPANY, Opposition No. 17,227.

In a decision rendered April 13, 1939 (163 Ms. Dec. 268, 41 U. S. P. Q. —), *Assistant Commissioner Frazer* held that The Ohio Provision Company, of Cleveland, Ohio, is not entitled to register the term "Opeco" as a trade-mark for bacon, hams, lard, and sausages, in view of the prior registration of the trade-mark "Arpeako" as a trade-mark for the same goods.

In his decision the Assistant Commissioner noted applicant's argument that the registrations were invalid and should be cancelled and then said:

"I do not find it necessary to discuss the evidence in that regard, because I am clearly of the opinion that the Patent Office is without jurisdiction under any circumstances to cancel a registration of its own motion. If applicant deems itself injured by opposer's registrations the statute affords a simple remedy by petition to cancel. The question is not open to consideration in the present proceeding. *Englander* v. *Continental Distilling Corporation*, 25 C. C. P. A. 1022, 95 Fed.(2d) 320. It should be observed, however, that opposer's established use of its mark, regardless of registration, would appear to bar the registration to applicant of a mark confusingly similar thereto and more recently adopted."

Then, with reference to the similarity of the marks, he said:

"That applicant's mark is confusingly similar to the mark of opposer I have no doubt, particularly in view of the identity of the goods to which the marks are applied. It is true that the marks differ somewhat in appearance, but in sound they are substantially the same."

EX PARTE H. A. LOEB & CO., Serial No. 77,534.

In a decision rendered April 24, 1939 (163 Ms. Dec. 270, 41 U. S. P. Q. —), *Assistant Commissioner Frazer* held that the Examiner of Trade-Marks had improperly refused to register a label on the ground that it included the letters "U. S. A."

In his decision the Assistant Commissioner noted that the Examiner's refusal was based on an analogy to the statutory prohibition against registration of such insignia as a trade-mark, and then said:

"I am unable to adopt the Examiner's reasoning. There is nothing inherently wrongful in applicant's use of the label, nor does the statute forbid its registration. Had Congress intended this particular restriction of the Trade-Mark Act to apply to labels, presumably it would have so indicated by appropriate legislation. Under existing law I am clearly of the opinion that applicant is entitled to the registration it seeks."

STEELSMITHS, INC., *v.* NATIONAL SILVER COMPANY, Opposition No. 17,115.

In a decision rendered April 24, 1939 (163 Ms. Dec. 270), 41 U. S. P. Q. —), *Assistant Commissioner Frazer* held that National Silver Company, of New York, N. Y., is not entitled to register the notation "Serv-It-Al" as a trade-mark for "trays made of or plated in whole or in part with precious metal", in view of the prior use by Steelsmiths, Inc., of Meriden, Conn., of the term "Servet" for stainless steel dishes.

With reference to the argument that applicant's mark was misdescriptive of its goods, the Assistant Commissioner said:

"The proofs clearly establish, and applicant admits the fact to be, that its trays are actually chromium plated and contain no precious metal. This is a matter that may doubtless be remedied by amendment in the event applicant finally prevails in the opposition proceeding, but as now presented the application was properly refused for the reason stated".

Then, with reference to the goods, he said:

"Opposer's dishes are intended to be used for both cooking and serving various foods. Applicant's tray is suitable only for serving. Applicant urges, and I am inclined to agree, that none of opposer's wares would normally be used as a tray; but the two items are nevertheless very closely related, and to my mind are clearly of the same descriptive properties.

"I am also in agreement with the Examiner that the marks of the parties are confusingly similar. They differ somewhat in appearance and do not have the same meaning, but in sound they are identical save for the last syllable of applicant's mark. It is my opinion that this difference is too slight to insure against confusion of the marks, at least when spoken."

CALIFORNIA PRUNE AND APRICOT GROWERS ASSOCIATION *v.* ALBANY PACKING COMPANY, INC., Cancelation No. 3274.

In a decision rendered April 28, 1939 (163 Ms. Dec. 272, 41 U. S. P. Q. —), *Assistant Commissioner Frazer* held that the prior use by California Prune and Apricot Growers Association, of San Jose, Calif., of the term "Tenderized" on dried fruits afforded no ground for the cancellation of a registration obtained by Albany Packing Company, Inc., of Albany, N. Y., under the provisions of the act of 1920, of the same word as applied to hams, pork shoulders, and picnics.

The ground of the decision is that the goods of the two parties are not of the same descriptive properties and confusion in trade is not likely from the use of the mark on the goods specified.

In his decision after noting certain decisions which the Examiner of Interferences had relied upon, and noting also that none of them involved the particular goods involved in this case, the Assistant Commissioner called attention to the decisions in *V. LaRosa & Sons, Inc.*, v. *Schroeder Bros., Inc.*, 159 Ms. D. 717, 469 O. G. 774, 30 U. S. P. Q. 278, and *Cracker Jack Co.* v. *Blanton Citrus Growers, Inc.*, 23 C. C. P. A. 925, 81 Fed.(2d) 553, and with respect to the latter said:

"• • • while those items are perhaps even less closely related than those of the instant case, the decision affords ample proof that the court did not intend its former rulings to be so broadly construed as to attribute the same descriptive properties to all food products. Until such a ruling is made, or until it is held that the particular goods here involved possess the same descriptive properties, I am unable to agree with the Examiner's conclusion."

He noted petitioner's argument as to the manner in which the goods are packaged and sold and after stating that they are tests to be applied but are by no means conclusive, he said:

"The differences between dried fruits and meat products, in all their essential characteristics, are so great that I do not think anyone would be likely to assume that they have a common source of origin merely because they bear the same mark and are similarly packaged and sold in the same stores."

He then said:

"Having selected a descriptive expression, petitioner is not entitled to the high degree of protection that might attach to an arbitrary trade-mark. No actual confusion has been shown, and I am unable to believe that confusion is likely. If respondent's goods and petitioner's were of the same descriptive properties injury to petitioner might be presumed, but the present record affords no basis for such presumption."

TRADE-MARKS

OFFICIAL GAZETTE, MAY 30, 1939

[VOL. 502. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 404,312. HICKORY GROVE COAL MINING CORPORATION, Rochester, N. Y. Filed Mar. 21, 1938.



The words "6th Vein Coal From Indiana" are disclaimed apart from the mark.

For Coal.

Claims use since Oct. 27, 1936.

Ser. No. 416,322. GARCO PRODUCTS INC., Butler, Pa. Filed Feb. 23, 1939.

GARSPAR

For Comminuted Material Embodying Silicates.

Claims use since Jan. 5, 1939.

CLASS 2

Receptacles

Ser. No. 408,885. KEYES FIBRE COMPANY, Waterville, Maine. Filed July 25, 1938.

FUL·VUE

For Molded Pulp Plates.

Claims use since May 23, 1938.

Ser. No. 416,866. OLD DOMINION BOX COMPANY, Lynchburg, Va. Filed Mar. 9, 1939.



Applicant disclaims the exclusive right to the use of the word "Fold", except in association with the other features of the mark.

For Paper Boxes.

Claims use since Aug. 1, 1938.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 404,863. BARTHOLOMEW F. NATOLI, doing business as Seagram Chemical Co., Passaic, N. J. Filed Apr. 4, 1938.

Seagram



No claim is made to the word "Seagram" apart from the mark shown in the drawing.

For Metal Polish and Silver Polish.

Claims use since Nov. 1, 1937.

Ser. No. 415,315. SARAH BERTHELSEN, doing business as Dentabrite Laboratories, Portland, Oreg. Filed Jan. 27, 1939.

DENTABRITE

For Cleaning Powders for the Cleaning, Polishing, and Removing Stains from Dental Plates.

Claims use since Aug. 19, 1938.

Ser. No. 415,518. THE MATHIESON ALKALI WORKS (INC.), New York, N. Y. Filed Feb. 2, 1939.

CHROMOTEX

For Preparation in Powder Form for Cleaning, Renovating, and Refinishing New and Soiled Rugs and Carpets.
Claims use since Jan. 21, 1939.

Ser. No. 415,912. ROCHESTER GERMICIDE COMPANY, Rochester, N. Y. Filed Feb. 10, 1939.

EMULSO

For Liquid Soap for Use on Floors, Woodwork, Automobile Bodies, and the Like.
Claims use since March, 1922.

Ser. No. 416,916. JOHN B. ROSEFIELD, doing business as An-Fo Manufacturing Co., Oakland, Calif. Filed Mar. 10, 1939.

DISHADU

For Dish-Washing Preparation.
Claims use since Feb. 15, 1939.

Ser. No. 416,944. H. E. BUTT GROCERY COMPANY, Harlingen and Corpus Christi, Tex. Filed Mar. 11, 1939.

H. E. B.

For Soap Chips and a General Cleanser for Household Use.
Claims use since Feb. 23, 1939.

Ser. No. 417,084. THE CURRAN CORPORATION, Malden, Mass. Filed Mar. 15, 1939.

TARLENE

For Liquid Cleaning Preparation and Solvent for Removing Tar or Grease Spots from Painted or Metal Surfaces Such as Automobile Bodies and the Like, and from Textile Fabrics.
Claims use since June, 1932.

Ser. No. 417,475. SAFEWAY STORES, INC., also doing business as Home Needs Co., Vernon and Oakland, Calif. Filed Mar. 24, 1939.

PERFECT·FOR·EVERY·HOUSEHOLD·USE

SU-PURB

The words "Perfect for Every Household Use" are disclaimed apart from the mark shown on the drawing.
For Granulated Soap.
Claims use since Jan. 12, 1938.

Ser. No. 418,152. I. R. L. INC., New York, N. Y. Filed Apr. 12, 1939.

CODITE

For Detergent Compounds Adapted for Washing Glassware, Crockery, Floors, Walls, Painted Surfaces, Metal Surfaces, Textile Fabrics, and Vehicles.
Claims use since Apr. 10, 1939.

CLASS 5

Adhesives

Ser. No. 416,173. AMERICAN HAIR & FELT COMPANY, Chicago, Ill. Filed Feb. 18, 1939.

PORCELLO

For Synthetic Porcelain Cement for Filling (Calking) the Open Spaces Around Bathtubs, Wall and Floor Tile, and Cementing or Joining Together of Broken Porcelain, Marble, Pottery, or Glass Articles, as Well as for General Work on a Larger Basis Wherever White Cement of a Porcelain Like Nature is Required.
Claims use since Feb. 6, 1939.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 414,289. DIETETIC RESEARCH LABORATORIES, INC., Bloomfield, N. J. Filed Dec. 29, 1938.

HYPERVITAM SPHERULS

The right to the exclusive use of the word "Spherules" is disclaimed apart from the mark shown.
For Preparation of Vitamins and Minerals.
Claims use since Nov. 28, 1938.

Ser. No. 416,168. THOMPSON-HAYWARD CHEMICAL COMPANY, Kansas City, Mo. Filed Feb. 17, 1939.

Pliacote

For Pliable, Flexible, Chemical Coating for Barrels, Storage Tanks, Tank Cars, Kegs, Drums, Etc., Which Waterproofs and Renders Them Repellent to Alkali, Acids, and Oxidizing Agents.
Claims use since Dec. 1, 1938.

Ser. No. 416,607. WILLETT WARD HANNAN, doing business as The Eez Company, Jamaica, N. Y. Filed Mar. 2, 1939.

EEZ

For Insecticide and Parasite Killer Used for and Applied Exclusively to Dogs and No Other Animals.
Claims use since Apr. 1, 1937.

Ser. No. 417,820. NYAL COMPANY, Detroit, Mich. Filed Apr. 3, 1939.

SALKALINE

For Effervescent Salt Preparation Indicated for Use in the Treatment of Gastric Hyperacidity and as an Alkalizing Agent.
Claims use since Mar. 24, 1939.

Ser. No. 418,369. SIDNEY G. SIMONS, doing business as The Carr Chemical Co., Columbus, Ga. Filed Apr. 17, 1939.

Mi-Secret

For Insecticide and Vermin Destroyer.
Claims use since Apr. 6, 1939.

Ser. No. 418,397. THE CASCO COMPANY, Canton, Ohio. Filed Apr. 17, 1939.

PINKIE PRIMS

For Laxative.
Claims use since March, 1933.

Ser. No. 418,398. THE CASCO COMPANY, Canton, Ohio. Filed Apr. 17, 1939.

WINZ

For Antacid.
Claims use since July, 1937.

Ser. No. 418,404. VICTOR G. BLOEDE COMPANY INCORPORATED, Baltimore, Md. Filed Apr. 18, 1939.

TAPROSIZE

For Paper-Sizing Composition Intended More Especially for Admixture with the Papermaking Stock, as in the Beater Engine.
Claims use since Apr. 12, 1939.

Ser. No. 418,410. H. E. JARVIS & CO., LIMITED, London, England. Filed Apr. 18, 1939.

RADDIM

For Toilet Powders, Toilet Lotions, Toilet Emulsions, Toilet Creams, and Impregnated Pads and Tissues for Toilet Purposes.
Claims use since November, 1938.

Ser. No. 418,414. MERCK & CO. INC., Rahway, N. J. Filed Apr. 18, 1939.

ILVIN

For Medicinal Preparations Used in Bacterial Infections.
Claims use since Apr. 10, 1939.

Ser. No. 418,420. REFINED PRODUCTS CORPORATION, Newark, N. J. Filed Apr. 18, 1939.

PERMAPAR

For Chemical for Treating Textile Materials.
Claims use since Sept. 12, 1938.

Ser. No. 418,449. THOMAS PALMIERI, doing business as Shapira Chemical Company, San Anselmo, Calif. Filed Apr. 19, 1939.

SHER-PIRA



The picture shown is a portrait of applicant's wife, Rose E. Shapira Palmieri, now deceased.
For Tooth Powder.
Claims use since on or about Jan. 1, 1917.

Ser. No. 418,497. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio. Filed Apr. 20, 1939.

B-C-A

For Insecticides and Fungicides.
Claims use since Apr. 3, 1939.

Ser. No. 418,524. LINO MANZONI, doing business as Linok Herbal Products, New York, N. Y. Filed Apr. 21 1939.

LINOKA

For Syrup Used for Asthma, Bronchitis, Coughs, and Other Respiratory Ailments.
Claims use since Apr. 1, 1939.

Ser. No. 418,525. LINO MANZONI, doing business as Linok Herbal Products, New York, N. Y. Filed Apr. 21, 1939.

LINOKIN

For Creams for Burns and Sprains.
Claims use since Apr. 1, 1939.

Ser. No. 418,603. SOCIETE ANONYME PARFUMERIE F. MILLOT, Paris, France. Filed Apr. 22, 1939.

REGARDS

For Perfumes, Toilet Waters, Face Powders, Talcum Powders, Face Creams, Rouge, Lipsticks, Sachets, Bath Salts, Brilliantine, Lotion for the Skin and Hair.
Claims use since Sept. 7, 1938.

CLASS 12

Construction Materials

Ser. No. 411,897. PANTHER OIL & GREASE MFG. CO., doing business as The Zone Company, Fort Worth, Tex. Filed Oct. 21, 1938.



For Liquid Asbestos Roof Covering and Plastic Roof Cement.
Claims use since Nov. 9, 1936.

Ser. No. 416,622. UNIVERSAL ATLAS CEMENT COMPANY, Chicago, Ill. Filed Mar. 2, 1939.

ATLAS HIGH-EARLY

Applicant disclaims the words "High-Early" apart from the mark.
For Portland Cement.
Claims use since Feb. 14, 1939.

Ser. No. 416,623. UNIVERSAL ATLAS CEMENT COMPANY, Chicago, Ill. Filed Mar. 2, 1939.



The words "High-Early" are disclaimed apart from the mark. The drawing is lined for red, yellow, and orange.
For Portland Cement.
Claims use since Feb. 14, 1939.

Ser. No. 417,037. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill. Filed Mar. 13, 1939.

INSUBESTOS

For Woven Insulating Blankets of Amphibole Insulating Fibers Utilized for Insulating Steam Turbines and the Like.
Claims use since Aug. 8, 1934.

Ser. No. 417,567. W. A. FINGLES, INC., doing business as Majestic Flashing Co., Baltimore, Md. Filed Mar. 28, 1939.

"ECONOMY BRAND"

No claim is made to the word "Brand" per se.
For Thru Wall Flashing.
Claims use since Feb. 25, 1939.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 393,080. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass. Filed July 10, 1937.

ONEIDACRAFT

For Stainless Steel and Stainless Iron Table and Kitchen Dishes and Pans.
Claims use since June 11, 1937.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 417,090. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Mar. 15, 1939.



For Ferrous Metal Castings and Forgings.
Claims use since Mar. 1, 1906.

CLASS 15

Oils and Greases

Ser. No. 411,189. SOUTHERN INDEPENDENT OIL AND REFINING COMPANY, INC., Evansville, Ind. Filed Oct. 1, 1938.

Safe • way

For Gasoline, Lubricating Oils and Greases.
Claims use since Mar. 27, 1938.

Ser. No. 416,953. WALTER H. GOODRICH & COMPANY, INC., New Haven, Conn. Filed Mar. 11, 1939.

Goodrich

The mark consists of part of the signature of Walter H. Goodrich.
For gasoline, Fuel Oil, Lubricating Oil, and Lubricating Greases.
Claims use since Jan. 15, 1931.

CLASS 16

Paints and Painters' Materials

Ser. No. 415,776. LUCAS PAUL HART, La Mesa, Calif. Filed Feb. 8, 1939.



For Furniture and Floor Polish.
Claims use since Aug. 1, 1937.

Ser. No. 416,124. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill. Filed Feb. 16, 1939.

COMMODORE

For Ready-Mixed Paint, Paint Enamel, and Varnish.
Claims use since Jan. 10, 1939.

Ser. No. 418,049. KARL A. MILAR, doing business as Milar & Company, Chicago, Ill. Filed Apr. 10, 1939.

NO-KRODE

For Metal Primer.
Claims use since Aug. 27, 1935.

Ser. No. 418,064. SALEM CHEMICAL & SUPPLY CO., Salem, Mass. Filed Apr. 10, 1939. Under 10-year proviso.

Salem

For Turpentine, Wax Polish and Oil Polish for Furniture and Floors.
Claims use since 1893.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 402,738. SABURO MORIYA, New York, N. Y. Filed Feb. 5, 1938.

NGK

For Porcelain Insulating Material for Electrical Apparatus of All Types.
Claims use since Aug. 1, 1937.

Ser. No. 411,679. CONSOLIDATED ELECTRIC LAMP COMPANY, Lynn, Mass. Filed Oct. 17, 1938.

ZENITH

For Electric Soldering Irons.
Claims use since Oct. 1, 1938.

Ser. No. 416,151. THE MASTER ELECTRIC COMPANY, Dayton, Ohio. Filed Feb. 17, 1939.

MASTER

For Electrically Operated Hoists and Parts Thereof.
Claims use since November, 1937.

Ser. No. 417,612. GIBSON ELECTRIC REFRIGERATOR CORPORATION, Greenville, Mich. Filed Mar. 29, 1939.

KOOKALL

For Electric Ranges.
Claims use since Feb. 15, 1939.

Ser. No. 417,711. THE PRIME MANUFACTURING CO., Milwaukee, Wis. Filed Mar. 31, 1939.

PRIME

For Electric Fence Controllers.
Claims use since Aug. 1, 1934.

Ser. No. 417,787. TELEMOTOR CORPORATION, New York, N. Y. Filed Apr. 1, 1939.

TEM

For Intercommunicating Telephone Equipment, Comprising Loud Speakers, Amplifiers, Switches, and Parts Thereof.
Claims use since Jan. 10, 1936.

Ser. No. 417,945. WILLIAMS INC., Peoria, Ill. Filed Apr. 6, 1939.

R·M·S Luper

For Radio Receiving Sets and Parts Thereof.
Claims use since Mar. 23, 1939.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 417,544. JOE LOWE CORPORATION, New York, N. Y. Filed Mar. 27, 1939.

Popsicle Pete

For Marbles, Combination Checkers and Chinese Checkers Game, Semi-Gyro Metal Top, Indoor Balls, Baseball Gloves, Boxing Gloves, Skates, Target Set, and Sleeping Doll.
Claims use since February, 1939.

Ser. No. 417,750. WILMER CLYDE DAISCOLL, Roanoke, Va. Filed Apr. 1, 1939.

SokbloK

For Game Played with Numbered Figures and Wooden Balls Adapted To Be Propelled by a Mallet.
Claims use since Feb. 15, 1939.

Ser. No. 418,568. AUGUST L. DELIN, Newark, N. J. Filed Apr. 22, 1939.

CADDY-MATIC

For Golf Bag Support.
Claims use since Apr. 8, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 407,219. ATLANTIC MANUFACTURING CO., Philadelphia, Pa. Filed June 8, 1938.

TOOLS DIES AND METAL STAMPINGS
ATLANTIC
SERVICE

Applicant disclaims any representation of the goods and all wording apart from the mark.
For Bending Fixture for Glass Frames and Stamping Dies, Milling Fixture for Automobile Tow Bar Yoke, Flanging Chucks for 30 and 55 Gallon Metal Barrel Heads, also Polishing Chucks for Automotive Hardware.
Claims use since Dec. 1, 1936.

Ser. No. 414,065. THE GALLOWAY COMPANY, INC., Waterloo, Iowa. Filed Dec. 21, 1938.

CREAMASTER

For Centrifugal Cream Separators.
Claims use since Dec. 14, 1938.

Ser. No. 415,508. THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 2, 1939.

Vibro-Insulator

Applicant disclaims the word "Insulator" apart from the rest of the mark.
For Machinery Mountings or Supports of Rubber and Metal.
Claims use since Nov. 23, 1938.

Ser. No. 416,375. HAMMEL, RIGLANDER & CO., INC., New York, N. Y. Filed Feb. 24, 1939.

THE VICTOR

For Engraving Blocks and Parts Thereof.
Claims use since 1912.

Ser. No. 416,505. CONSOLIDATED RAZOR BLADE CO., INC., Jersey City, N. J. Filed Feb. 28, 1939.

b Sharps in flats

For Razor Blades.
Claims use since Feb. 11, 1939.

Ser. No. 416,791. JOHN W. BAUMAN & SON, Sassamansville, Pa. Filed Mar. 8, 1939.

BAUMO

For Pipe Wrenches.
Claims use since Sept. 14, 1935.

Ser. No. 417,690. HEWITT RUBBER CORPORATION, Buffalo, N. Y. Filed Mar. 31, 1939.

DURA-BOND

For Rubber Covered Rolls and Pulleys and Motor Mountings Made of Metal with Rubber Vulcanized Thereto.
Claims use since June, 1938.

Ser. No. 417,739. ALLIS-CHALMERS MANUFACTURING COMPANY, West Allis and Milwaukee, Wis. Filed Apr. 1, 1939.

ELECTRIFUGAL

For Pumping Machinery for Altering the Pressure of and Promoting the Flow of Both Gases and Liquids, and Parts Thereof.
Claims use since Mar. 10, 1939.

Ser. No. 417,749. ROGER W. CUTLER, Boston, Mass. Filed Apr. 1, 1939.

"GREYHOUND"

For Fabric Driving Tapes for the Spindles of Spinning and Twister Frames.
Claims use since Mar. 6, 1939.

Ser. No. 417,792. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Filed Apr. 3, 1939.

Manor House

For Lawn Mowers.
Claims use since Dec. 29, 1938.

Ser. No. 417,852. THE SUPERHEATER COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 4, 1939.

ELESCO

For Steam and Water Separators.
Claims use since Apr. 11, 1936.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 415,294. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg. Filed Jan. 27, 1939.

IRON FIREMAN

For Thermostatically-Controlled Electric Switches Especially Adapted for Controlling Heat-Generating Devices Such as Oil, Gas, and Solid-Fuel Furnaces.
Claims use since July 27, 1926.

Ser. No. 416,547. CONTINENTAL OPTICAL COMPANY, INC., Indianapolis, Ind. Filed Mar. 1, 1939.

KROMOTONE

For Ophthalmic Blanks and Lenses Tinted to Reduce Glare.
Claims use since Jan. 25, 1939.

Ser. No. 417,631. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed Mar. 29, 1939.

TRICOR

For Camera Lenses.
Claims use since Nov. 16, 1938.

Ser. No. 417,742. JAMES EMMETT CADE, New York, N. Y. Filed Apr. 1, 1939.

The Road Ahead

For Moving Picture Films Employed to Designate the Origin of the Films (and Not as the Title of the Moving Picture Films).
Claims use since Jan. 10, 1939.

Ser. No. 417,856. WILLSON PRODUCTS, INC., Reading, Pa. Filed Apr. 4, 1939.

KILGLARE

For Ophthalmic Mountings and Lenses and Parts Thereof.
Claims use since Mar. 1, 1939.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 395,687. SUPREME SANCTORUM ANCIENT MYSTIC ORDER OF SAMARITANS, INC., Niagara Falls, N. Y. Filed July 27, 1937.



For Fraternity Pins, Badges, Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Ornamental Shields, Lapel Buttons, Tie Clasps, Charms, Finger Rings, and Belt Buckles, All Made of or Plated With Precious Metal.
Claims use since Aug. 8, 1936.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 404,920. STETSON CHINA COMPANY, INC., Chicago, Ill. Filed Apr. 5, 1938.



For China Tableware.
Claims use since Mar. 1, 1933.

Ser. No. 416,526. M. C. WENTZ, Los Angeles, Calif. Filed Feb. 28, 1939.



For Ceramic Vases, Bowls, Tea Pots, Sugar and Creamer Sets, Salt and Pepper Shakers, Jam Jars, Plates, and Cooky Jars.
Claims use since Jan. 28, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 416,165. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill. Filed Feb. 17, 1939.

SANI-SLEEP

SCIENTIFICALLY HYGIENIZED

The words "Scientifically Hygienized" are disclaimed apart from the mark.
For Mattresses.
Claims use since Sept. 10, 1935.

Ser. No. 417,989. WASHINGTON TENT & AWNING CO., INC., Washington, D. C. Filed Apr. 7, 1939.

STURDIFOLD

For Venetian Blinds.
Claims use since Jan. 1, 1938.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 415,154. WESTERN FOUNDRY COMPANY, Portland, Oreg. Filed Jan. 23, 1939.

CONIFER

Applicant disclaims representation of the name plates apart from the mark.
For Sawdust Burners and Comminuted Wood-Waste Burning Hot Water Heaters.
Claims use since January, 1928.

Ser. No. 417,315. VITAGUARD CORPORATION, Sellersville, Pa. Filed Mar. 20, 1939.

VITA-SCREEN

The drawing is hatched to indicate orange. No claim is made to the word "Screen" apart from the mark.
For Screen and Multiple Baffle Window Ventilators.
Claims use since Mar. 15, 1939.

Ser. No. 417,547. MICHIGAN TANK & FURNACE CORPORATION, Detroit, Mich. Filed Mar. 27, 1939.

COMFORTZONE

For Oil, Coal, and Gas Burning Furnaces, With and Without Air Conditioning Equipment.
Claims use since Sept. 21, 1937.

Ser. No. 417,629. B. F. STURTEVANT COMPANY, Hyde Park, Boston, Mass. Filed Mar. 29, 1939.

AXIFLO

For Propeller Fans.
Claims use since Jan. 10, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 414,365. RCA MANUFACTURING COMPANY, INC., Camden, N. J. Filed Dec. 30, 1938.

Victor

For Electric Chime Units and Parts Thereof.
Claims use since June 9, 1938.

CLASS 37

Paper and Stationery

Ser. No. 411,129. MILL AGENTS AND DISTRIBUTORS, INC., Oakland, Calif. Filed Sept. 30, 1938.



For Paper—Namely, Paper Napkins, Paper Towels, Waxed Paper, and Toilet Tissue.
Claims use since Mar. 30, 1938.

Ser. No. 413,301. EASTERN MANUFACTURING COMPANY, New York, N. Y. Filed Nov. 30, 1938.

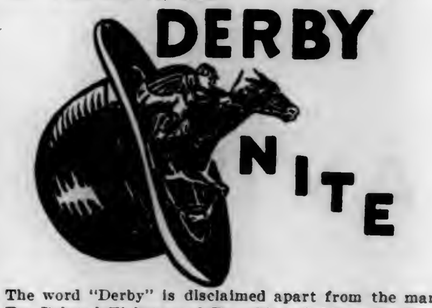
THE ATLANTIC
MASTER-MAILER

For Reply Card Letterheads.
Claims use since Nov. 19, 1938.

CLASS 38

Prints and Publications

Ser. No. 385,882. DERBY PUBLISHING COMPANY, Chicago, Ill. Filed Nov. 23, 1936.



The word "Derby" is disclaimed apart from the mark.
For Printed Tickets and Pamphlets Sold to the Trade as Such.
Claims use since Nov. 14, 1936.

Ser. No. 403,351. AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS, INC., New York, N. Y. Filed Feb. 24, 1938.

METALS TECHNOLOGY

For Periodical Publication.
Claims use since January, 1934.

Ser. No. 412,142. HENRY F. HUTCHINSON, New York, N. Y. Filed Oct. 28, 1938.

H & C



The name "Henri De Chatillon" is the name by which applicant is known as a designer. The signature is in the handwriting of applicant.
For Designs for Hats, Shoes, Gloves, Jewelry, Compacts, Watch Cases, Bags, and Belts, Sold as Such in the Trade.
Claims use since November, 1936.

Ser. No. 412,264. R. H. MACY & CO., INC., New York, N. Y. Filed Nov. 1, 1938.

LET'S GO SEE!

For Periodical Published from Time to Time.
Claims use since Oct. 17, 1938.

Ser. No. 416,115. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Feb. 16, 1939.

SEMINAR

For Publication on Clinical Subjects and Pharmaceutical, Biological, and Medicinal Preparations Published from Time to Time and Usually Quarter-Annually.
Claims use since Feb. 15, 1939.

Ser. No. 416,300. TODD SHIPYARDS CORPORATION, New York, N. Y. Filed Feb. 21, 1939.

The KEEL

For Magazine.
Claims use since August, 1918.

Ser. No. 416,326. LEO JIRANEK, New York, N. Y. Filed Feb. 23, 1939.

Know Furniture—By Leo Jiranek

No claim is made to the name "Leo Jiranek" apart from the mark shown.
For Title for a Newspaper Column.
Claims use since July 22, 1938.

Ser. No. 417,119. SALVATORE F. DEL BONO, Philadelphia, Pa. Filed Mar. 16, 1939.

"TIS SAID" BY Phil Adelphia

No claim is made to the words "Phil Adelphia" apart from the mark.
For Newspaper Column Printed from Time to Time.
Claims use since Feb. 17, 1939.

Ser. No. 417,124. HIDE AND LEATHER PUBLISHING CO., Chicago, Ill. Filed Mar. 16, 1939.



For Periodical.
Claims use since Jan. 3, 1939.

Ser. No. 417,130. MACNAIR-DORLAND COMPANY, New York, N. Y. Filed Mar. 16, 1939.

Soap and Sanitary Chemicals

For Periodical.
Claims use since January, 1938.

Ser. No. 417,586. THE PARENTS' INSTITUTE, INC., New York, N. Y. Filed Mar. 28, 1939.

BABY CARE MANUAL

For Monthly Publication.
Claims use since Mar. 1, 1939.

Ser. No. 418,034. CONSOLIDATED DECALCOMANIA CORPORATION, Jamaica, N. Y. Filed Apr. 10, 1939.



For Decalcomania Transfers.
Claims use since Mar. 2, 1939.

CLASS 39

Clothing

Ser. No. 402,882. LUCILLA DE VESCOVI WHITMAN, New York, N. Y. Filed Feb. 9, 1938.



The word feature consists of "Countess Mara".
For Neckties.
Claims use since Nov. 25, 1937.

Ser. No. 403,584. DRAPESETTE NECKTIE CORPORATION, New York, N. Y. Filed Mar. 2, 1938.

DRAPESETTE

For Men's, Women's, and Children's Neckties and Cut-Out Necktie Linings.
Claims use since Feb. 25, 1938.

Ser. No. 413,060. MAX BARDFIELD, doing business as BBB Manufacturing Company, Los Angeles, Calif. Filed Nov. 23, 1938.



For Women's, Little Girls', and Misses' Wear—Namely, Sportswear—Namely, Coats, Jackets, Suits, and Slacks; Beachwear—Namely, Shorts, Pajamas, Halters, and Beach Coats, and Skirts and Blouses.
Claims use since Nov. 10, 1938.

Ser. No. 413,322. ARTHUR SIEGMAN, INC., New York, N. Y. Filed Nov. 30, 1938.



For Men's, Women's, and Boys' Neckties.
Claims use since Nov. 15, 1938.

Ser. No. 413,932. FASHIONCRAFT, INC., Cambridge, Mass. Filed Dec. 17, 1938.

Rain Conditioned by FASHIONCRAFT

No claim is made to the descriptive words "Rain Conditioned" apart from the mark as shown.
For Raincoats.
Claims use since June 1, 1938.

Ser. No. 414,830. QUEEN QUALITY BOOT SHOP, INC., Washington, D. C. Filed Jan. 14, 1939.

DEBONAIR

For Ladies' Shoes Made of Leather, Rubber, Fabric, or Wood or Combinations of Said Materials.
Claims use since Apr. 14, 1932.

Ser. No. 415,139. RED HEAD BRAND COMPANY, Chicago, Ill. Filed Jan. 23, 1939.

SQUALTEX

For Adults' Hunting, Fishing, and Sport Caps, Coats, Pants and Breeches, Jackets, Vests, Combination Leather and Fabric Sport Mittens, Skeet Coats and Jackets and Skeet Trousers and Pants.
Claims use since Jan. 18, 1938.

Ser. No. 415,595. HICKORY OVERALL COMPANY, Hickory, N. C. Filed Feb. 4, 1939.

OLD HICKORY

For Overalls, Shirts, and Hunting Apparel—Namely, Coats and Pants, Caps, Leggings, and Puttees, Not Made of Hickory Fabrics.
Claims use since March, 1913.

Ser. No. 415,918. SERFIS GLOVE CORP., New York, N. Y. Filed Feb. 10, 1939.



For Leather and Fabric Gloves.
Claims use since Jan. 23, 1939.

Ser. No. 416,014. MEADOW PARK CLOTHES, INC., New York, N. Y. Filed Feb. 14, 1939.



KASHIMINA

For Men's and Younger Men's Clothing—Namely, Suits, Coats, Pants, Vests, Topcoats, and Overcoats.
Claims use since Dec. 21, 1938.

Ser. No. 416,205. RALPHS-PUGH COMPANY, INC., San Francisco, Calif. Filed Feb. 18, 1939.

STEER HIDE

The words "Steer Hide" are disclaimed apart from the mark.
For Leather Garments—Namely, Leather Jackets, Coats, Sportswear Jackets, Work Coats, Work Coats Combined with Sheepskin Lining, and Work Coats Combined with Wool Lining.
Claims use since Feb. 1, 1938.

Ser. No. 416,415. SAMUEL FOX, INC., Philadelphia, Pa. Filed Feb. 25, 1939.

PER-FECT-O-PEDIC
LA SALLE
SHOE

Applicant disclaims the words "La Salle Shoe" except as shown.
For Shoes Made of Leather, Rubber, or Fabric, or Combinations of Said Materials.
Claims use since Jan. 28, 1939.

Ser. No. 416,678. BELL GARMENT MANUFACTURING CORPORATION, San Antonio, Tex. Filed Mar. 4, 1939.

TEX SON



For Articles of Wearing Apparel for Children—Namely, Play Suits, Sun Suits, Short Pants, Long Pants, Shirts, Blouses, Middies, Overalls, Riding Breeches, Jackets, Jodhpurs, Dresses, Slacks, and Suits.
Claims use since Feb. 2, 1939.

Ser. No. 417,079. BERRY CLOTHING CORPORATION, New York, N. Y. Filed Mar. 15, 1939.

GUARDSWORTH

For Clothing—Namely, Coats, Vests, Trousers, Knickerbockers, and Overcoats for Men and Boys.
Claims use since Mar. 1, 1939.

Ser. No. 417,143. ST. JOSEPH HAT & CAP COMPANY, St. Joseph, Mo. Filed Mar. 16, 1939.

Beau Brummel



HATS OF DISTINCTION
"For Men who care"

No claim is made to the words "Hats of Distinction" and "For Men Who Care" apart from the mark shown on the drawing.
For Men's and Boys' Headwear—Namely, Hats and Caps.
Claims use since February, 1929.

Ser. No. 417,153. SAKS & COMPANY, New York, N. Y. Filed Mar. 16, 1939.

Young Elite

For Misses' Dresses, Coats, Suits, and Hats.
Claims use since Feb. 20, 1939.

Ser. No. 417,354. WOLF & BARSE, INC., New York, N. Y. Filed Mar. 21, 1939.

Rainbow Tweed
—WEB—

The word "Tweed" is disclaimed apart from the mark.
For Ladies' and Misses' Suits, Jackets, Skirts, Coats, and Coat and Suit Ensembles.
Claims use since Dec. 28, 1937.

Ser. No. 417,389. SAKS & COMPANY, New York, N. Y. Filed Mar. 22, 1939.

Sultan Last

Applicant disclaims the right to the exclusive use of the word "Last" except as in the association shown in the drawing.
For Women's and Misses' Shoes Made of Leather, Fabric, and Combinations Thereof.
Claims use since Mar. 1, 1939.

Ser. No. 417,572. H. J. GROSSMAN, Mount Carmel, Pa. Filed Mar. 28, 1939.

Starfield

For Men's and Boys' Hosiery and Underwear.
Claims use since Feb. 1, 1938.

Ser. No. 417,783. A. SANDLER CO., Boston, Mass. Filed Apr. 1, 1939.

Willowbrooke

For Shoes Made of Leather, Fabric, Fiber, or Rubber, or Combinations of the Same.
Claims use since October, 1936.

Ser. No. 417,884. MASON SHOE MANUFACTURING COMPANY, Chippewa Falls, Wis. Filed Apr. 5, 1939.

VICTOR MASON'S
Arch Aflоat
SHOES

Applicant disclaims the words "Victor Mason's" and "Shoes" apart from the mark shown.
For Footwear Made Principally of Leather with Portions Made of Fabric and Rubber—Namely, Shoes, Oxfords, Slippers, Boots, and Work Shoes.
Claims use since Feb. 9, 1939.

Ser. No. 417,999. FIELD AND FLINT CO., Brockton, Mass. Filed Apr. 8, 1939.

THE



"JUG"

For Shoes Made of Leather and Combinations of Leather and Fabric.
Claims use since Mar. 15, 1939.

Ser. No. 418,000. FIELD AND FLINT CO., Brockton, Mass. Filed Apr. 8, 1939.

JUG

For Shoes Made of Leather and Combinations of Leather and Fabric.
Claims use since Mar. 15, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 416,561. HERMES, S. A., Paris, France. Filed Mar. 1, 1939.

HERMES

For Toilet Sets Comprising Their Containers Made of Leather, Leather Composition, or Papier-Mâché, and Their Contents, as Combs, Brushes, Mirrors, Shoehorns, Buttonhooks, Powder Jars, Hair Receivers, Nail Files, Nail Scissors, Cuticle Knives, and Hairpin Trays; Sewing Sets Comprising Their Containers Made of Leather, Leather Composition, Papier-Mâché, Straw, Wickerwork, or Wood, and Their Contents as Needles, Thimbles, Scissors, Threads, and Emery Cushions.
Claims use since Dec. 1, 1936.

Ser. No. 416,857. JOSEPH S. LEES, Los Angeles, Calif. Filed Mar. 9, 1939.



ADELL
PERFECT WAVE
TURBAN

The portrait is that of Erna Adell Schmidt. Applicant disclaims the phrase "Perfect Wave Turban" and also the picture of the turban.
For Hair Wave Turbans.
Claims use since Apr. 20, 1934.

Ser. No. 417,885. MCCRORY STORES CORPORATION, New York, N. Y. Filed Apr. 5, 1939.

ANITA-JEAN

For Dress Shields.
Claims use since Oct. 17, 1938.

Ser. No. 417,886. MCCRORY STORES CORPORATION, New York, N. Y. Filed Apr. 5, 1939.



Applicant disclaims the words "Guaranteed" and "Dress Shields" apart from the mark shown.
For Dress Shields.
Claims use since Oct. 17, 1938.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 413,823. EICHMANN & HECHT, New York, N. Y. Filed Dec. 14, 1938.

BRIDAL GLOW

For Knitted, Netted, and Woven Fabrics, in the Piece, Comprising Cotton, Wool, Rayon, and Silk Yarn, and Mixtures Thereof.
Claims use since Nov. 26, 1937.

Ser. No. 414,456. LOVEMAN, JOSEPH & LOEB, Birmingham, Ala. Filed Jan. 3, 1939.



The words "Sheets and Pillow Cases", "Made to Our Own Specifications", "Size Before Hemming", and "Birmingham, Alabama" are disclaimed as part of the mark and the representation of the label is disclaimed within itself.
For Sheets and Pillow Cases.
Claims use since Dec. 1, 1937.

Ser. No. 416,969. CHARLES SCHWARTZ & CO., Chicago, Ill. Filed Mar. 11, 1939.

EXCELLO

For Towels, Untreated Polishing Cloths, Wiping Cloths, and Wash Cloths.
Claims use since Sept. 29, 1938.

CLASS 43

Thread and Yarn

Ser. No. 416,911. THE NATIONAL SILK CO., INC., South Coventry, Conn. Filed Mar. 10, 1939.

ALPENNA

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.
Claims use since Feb. 18, 1939.

Ser. No. 417,541. JAMES LEES & SONS COMPANY, Bridgeport, Pa. Filed Mar. 27, 1939.

MELLOSHEEN

For Crochet and Knitting Cotton.
Claims use since January, 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 417,391. THE SCHOLL MFG. CO., INC., New York, N. Y. Filed Mar. 22, 1939.

Adhestite

For Adhesive Unmedicated Felt Corn Pads.
Claims use since Sept. 2, 1936.

Ser. No. 418,411. H. E. JARVIS & CO., LIMITED, London, England. Filed Apr. 18, 1939.

RADDIM

For Lamps for Medical and Surgical Purposes.
Claims use since November, 1938.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 413,882. SEMINOLE FLAVOR COMPANY, Chattanooga, Tenn. Filed Dec. 15, 1938. Under act of Feb. 20, 1905, as amended June 10, 1938.

THE DOUBLE LINE

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups for Compounding the Same.
Claims use since Mar. 2, 1938.

Ser. No. 417,226. MINTOCOLA CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 18, 1939.

MINTOCOLA

For Maltless, Noncereal, Nonalcoholic Beverages Sold as Soft Drinks, and Syrups and Extracts for Making the Same.
Claims use since January, 1936.

Ser. No. 417,619. JACOB RIES BOTTLING WORKS, INC., Shakopee, Minn. Filed Mar. 29, 1939.

ROCK SPRING

KOLA

The word "Kola" is disclaimed apart from other features of the mark shown in the drawing.
For Maltless, Noncereal, Nonalcoholic Beverages.
Claims use since Nov. 16, 1938.

Ser. No. 417,741. JAMESON GEORGE BUSTON, doing business as The Sun Rise Bottling Company, Tazewell, Va. Filed Apr. 1, 1939.

you and me

For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup and Extract for Making the Same.
Claims use since Feb. 21, 1939.

Ser. No. 417,745. CHERRY BLOSSOMS MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 1, 1939.

Better Time

For Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks and Sirups and Extracts for Making the Same.

Claims use since Mar. 1, 1937.

Ser. No. 418,221. OSCAR JOHN WEISS, doing business as Pepsi-Cola Bottling Co., Quincy, Ill. Filed Apr. 13, 1939.

Dai-Lee

For Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks and Sirups and Extracts for Making the Same.

Claims use since Mar. 16, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 380,883. QUIK-KUP COFFEE, INC., New York, N. Y. Filed July 10, 1936.

QUICK CUP



FLUID COFFEE

The words "Fluid Coffee" form no part of the mark except as shown.

For Fluid Coffee.

Claims use since Feb. 21, 1900.

Ser. No. 399,374. M. ROM & SONS COMPANY, INC., Pittsburgh, Pa. Filed Nov. 5, 1937.

POND LILY

For Chili Sauce, Catsup, Finger Peppers, Cider Vinegar, Relish Consisting of Ground Pickles Prepared in a Syrup Made of Vinegar, Sugar and Spices, Sandwich Spread, Peanut Butter, Mustard, Salad Dressing, Jar Pickles (Sour, Sweet, Dill and Hot Mixed Pickles), Canned Pork and Beans, Canned Tuna Fish, Canned Evaporated Milk, Canned Mushrooms, Canned Fruit and Canned Vegetables (Whole, Sliced, Grated and Crushed), Canned Succotash, Canned Mixed Vegetables, Canned Peas and Carrots, Canned Hominy, Canned Sour Kraut, Canned Pumpkin, Canned Fruit and Vegetable Juices for Human Consumption as a Food, Canned Cherries, Canned Fruits for Salad, Canned Cranberry Sauce, Canned Apple Sauce, and Canned Fruit Cocktail.

Claims use since June 15, 1937.

Ser. No. 401,930. FREMONT CANNING COMPANY, doing business as Gerber Products Company, Fremont, Mich. Filed Jan. 15, 1938.



The representation of the label is disclaimed. The drawing is lined for blue. The picture of the child is fanciful.

For Canned Strained Cereals for Babies, Convalescents, and Special Diets.

Claims use since Nov. 23, 1937.

Ser. No. 403,747. ALASKA PACIFIC SALMON COMPANY, Seattle, Wash. Filed Mar. 7, 1938.



Applicant is the owner of registration No. 259,064, dated July 23, 1929.

For Canned and Frozen Fish.

Claims use since July 23, 1929.

Ser. No. 404,393. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed Mar. 23, 1938.

FRO-DEX

Applicant is the owner of trade-mark registration 248,939, dated November 6, 1928.

For Cereal Sugars Produced from Corn.

Claims use since Feb. 26, 1938.

Ser. No. 412,128. FAMOUS FOODS, INC., Detroit, Mich. Filed Oct. 28, 1938.

Famous FOODS, INC.



For Pretzels, Potato Chips, and Popt Corn.

Claims use since Aug. 11, 1938.

Ser. No. 412,133. MARTIN GILBERT, Reedley, Calif. Filed Oct. 28, 1938.



No claim is made to the representation of the label apart from the mark.

For Fresh Fruits—Namely, Fresh Grapes.

Claims use since 1926.

Ser. No. 412,253. ESBJERG HERMETIKFABRIK A/S, Esbjerg, Denmark. Filed Nov. 1, 1938.

SCANCAN

For Conserves of All Kinds.

Claims use since June 8, 1938.

Ser. No. 412,686. H. SCHOENFELD & SONS, INC., New York, N. Y. Filed Nov. 15, 1938.



For Sausage Seasoning.

Claims use since May 18, 1937.

Ser. No. 413,677. FREDERICK W. JOHNSON & SON, doing business as Chicauhagha Farms, Birmingham, Mich. Filed Dec. 10, 1938.



Exclusive right to the use of the words "Michigan Grade One Sausage—Ham—Bacon, Cure, Birmingham, Mich." is hereby disclaimed apart from the mark shown.

For Prepared Sausage, Hams, and Bacon.

Claims use since Dec. 1, 1937.

Ser. No. 414,339. CREOLE FOOD CO., Gulfport, Miss. Filed Dec. 30, 1938.

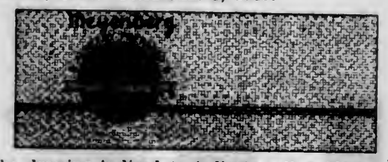
LAUGH-EAT



For Canned Shrimp á la Creole; Canned Shrimpburger, i. e. Ground Shrimp Meat; Canned Creole Gumbo, Canned Courtbouillon; Canned Jambalaya, i. e. a Combination of Shrimp and Rice Cooked Together with Tomato Gravy; and Canned Creole Oyster Soup.

Claims use since Oct. 16, 1938.

Ser. No. 414,460. MEYENBERG MILK PRODUCTS CO., Salinas, Calif. Filed Jan. 3, 1939.



The drawing is lined to indicate yellow black, green, and red. No claim is made to the representation of a label or to the words "Already Prepared" apart from the mark as shown.

For Preparation Used in Making Ice Cream.

Claims use since Oct. 1, 1938.

Ser. No. 416,472. HAROLD MOYES, doing business as Citrus Distributors, Los Angeles, Calif. Filed Feb. 27, 1939.

CAL-FAME

For Fresh Citrus Fruits and Fresh Vegetables.

Claims use since Jan. 25, 1939.

Ser. No. 416,768. JACOB LEHRMAN, doing business as Sun Pride Co., Philadelphia and Harrisburg, Pa. Filed Mar. 7, 1939.

SIGNORINA

For Tomato Paste.
Claims use since Jan. 3, 1936.

Ser. No. 416,792. THE BORDEN COMPANY, New York, N. Y. Filed Mar. 8, 1939. Under section 5b of the act of 1905 as amended in 1920.

Borden's

For Blend of Refined Sugar, Fine Cocoa, Skim Milk, Malt Extract, Salt, and Flavoring for Use as an Ingredient in Making Chocolate Flavored Food Beverages.
Claims use since Feb. 14, 1938.

Ser. No. 416,885. THE WINORR CANNING COMPANY, Circleville, Ohio. Filed Mar. 9, 1939.

Greaties

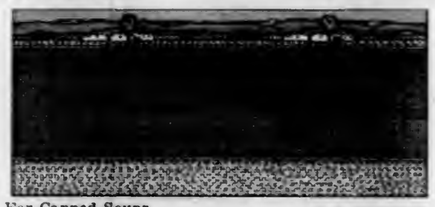
For Canned Vegetables.
Claims use since Feb. 15, 1939.

Ser. No. 417,198. AMERICAN LECITHIN COMPANY, Cleveland, Ohio. Filed Mar. 18, 1939.

LEC 1

For Preparation for Use in Baking and Bakery Products Comprising a Dry Mixture of Lecithin with Cereal or Leguminous Flour.
Claims use since Nov. 1, 1938.

Ser. No. 417,308. SCHUCKL & CO., INC., doing business as Sunnyvale Packing Co., San Francisco, Calif. Filed Mar. 20, 1939.



For Canned Soups.
Claims use since Mar. 7, 1939.

Ser. No. 417,358. THE BORDEN COMPANY, New York, N. Y. Filed Mar. 22, 1939.

HOMMIES

For Popped Hominy Coated with Cheese Flavoring.
Claims use since Dec. 22, 1938.

Ser. No. 417,537. H. B. GRISWOLD, doing business as Griswold Ranch Company, La Habra, Calif. Filed Mar. 27, 1939.

VITACADO

For Avocados.
Claims use since Mar. 14, 1939.

Ser. No. 417,590. SEABOARD LEMON ASSOCIATION, Oxnard, Calif. Filed Mar. 28, 1939.

CUTTER

For Fresh Citrus Fruit.
Claims use since Nov. 5, 1938.

CLASS 47

Wines

Ser. No. 416,541. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash. Filed Mar. 1, 1939.

COOL BREEZE

For Wine Punch.
Claims use since Nov. 30, 1938.

Ser. No. 416,542. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash. Filed Mar. 1, 1939.

DOWN SOUTH

For Wine Punch.
Claims use since Nov. 30, 1938.

Ser. No. 416,543. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash. Filed Mar. 1, 1939.

HURRICANE

For Wine Punch.
Claims use since Nov. 30, 1938.

Ser. No. 416,544. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash. Filed Mar. 1, 1939.

RED SKY

For Wine Punch.
Claims use since Nov. 30, 1938.

Ser. No. 416,546. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash. Filed Mar. 1, 1939.

TROPIC NIGHT

For Wine Punch.
Claims use since Nov. 30, 1938.

Ser. No. 417,734. ITALIAN SWISS COLONY, San Francisco, Calif. Filed Mar. 31, 1939.

HILLTOP COLONY

For Wines.
Claims use since Mar. 17, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 415,339. G. KRUEGER BREWING COMPANY, Newark, N. J. Filed Jan. 28, 1939.

AMBASSADOR

For Beer.
Claims use since Jan. 23, 1939.

Ser. No. 418,147. GREENWAY'S INC., Syracuse, N. Y. Filed Apr. 12, 1939.

SPARKLING Grenay

No claim is made to the word "Sparkling" apart from the mark shown.
For Beverages Fermented from Malt, Hops, Sugar, and Added Organic Substances.
Claims use since Apr. 4, 1939.

Ser. No. 418,216. TANNHÄUSER BREWING COMPANY, Bethlehem, Pa. Filed Apr. 13, 1939.

TANNHÄUSER

For Beer.
Claims use since Apr. 15, 1936.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 416,988. BALDWIN LIQUORS CORPORATION, New York, N. Y. Filed Mar. 13, 1939.

FARM BROOK

For Whiskeys, Brandies, Gins, and Cordials.
Claims use since Jan. 3, 1937.

Ser. No. 418,235. PHILIP BLUM & COMPANY, INC., Chicago, Ill. Filed Apr. 14, 1939.

Camp Nelson

For Whiskey.
Claims use since Oct. 27, 1932.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 411,727. BERNARD G. WARD AND CLARENCE E. WERNITSCH, Portland, Ore. Filed Oct. 17, 1938.

Casho

The color lining and the representation of the tag are disclaimed.
For Identification Tags.
Claims use since August, 1936.

Ser. No. 416,470. H. H. MARTIN PRODUCTS CORPORATION, Toledo, Ohio. Filed Feb. 27, 1939.

DISPENSO - CAP

The word "Cap" is disclaimed apart from the mark.
For Bottle Closures.
Claims use since Jan. 30, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 30, 1939

367,716. KNITTED SPORTWEAR—NAMELY, SWEATERS, SCARVES, SOCKS, AND CHILDREN'S, MISSES', AND WOMEN'S DRESSES. OLD COLONY KNITTING MILLS, INC., Hingham, Mass.
Filed August 7, 1936. Serial No. 381,917. PUBLISHED JULY 5, 1938. Class 39.

367,717. POP CORN IN ITS NATURAL STATE. POP-CORN GROWERS AND DISTRIBUTORS, INC., Wall Lake, Iowa.
Filed October 3, 1936. Serial No. 383,939. PUBLISHED MARCH 21, 1939. Class 46.

367,718. DOLLS. AMERICAN CHARACTER DOLL CO. INC., New York, N. Y.
Filed May 5, 1937. Serial No. 392,306. PUBLISHED MARCH 21, 1939. Class 22.

367,719. FRIED CHICKEN AND FRENCH FRIED POTATOES. THE CHICKEN SHACK, INCORPORATED, Chicago, Ill.
Filed July 9, 1937. Serial No. 395,019. PUBLISHED AUGUST 30, 1938. Class 46.

367,720. AIRPLANES AND STRUCTURAL PARTS THEREOF. DOUGLAS AIRCRAFT COMPANY, INC., Santa Monica, Calif.
Filed August 11, 1937. Serial No. 396,262. PUBLISHED MARCH 21, 1939. Class 19.

367,721. MILLINERY — NAMELY, LADIES' HATS, CHAPEAUX, AND BERETS; AND CLOTHING FOR WOMEN — NAMELY, LADIES' AND MISSES' DRESSES, COATS, SUITS, EVENING GOWNS, ETC. FASHION LIFE, INC., New York, N. Y.
Filed August 20, 1937. Serial No. 396,656. PUBLISHED DECEMBER 28, 1937. Class 39.

367,722. LADIES' AND MISSES' DRESSES. DEBUTANTE FROCKS INC., New York, N. Y.
Filed October 5, 1937. Serial No. 398,151. PUBLISHED DECEMBER 21, 1937. Class 39.

367,723. FROZEN CONFECTIONS AND SYRUPS AND/OR CONCENTRATES FOR MAKING THE SAME. JOE LOWE CORPORATION, New York, N. Y.
Filed December 28, 1937. Serial No. 401,310. PUBLISHED AUGUST 9, 1938. Class 46.

367,724. FOUNTAIN PENS. DAVID KAHN, INC., North Bergen, N. J.
Filed January 7, 1938. Serial No. 401,670. PUBLISHED MARCH 21, 1939. Class 37.

367,725. FROZEN CONFECTIONS. FROZEN NOVELTIES, INC., Long Island City, N. Y.
Filed January 11, 1938. Serial No. 401,776. PUBLISHED MARCH 21, 1939. Class 46.

367,726. RULES, LEVELS, PLUMBS, TRAMMEL POINTS, LEVEL SIGHTS, BIT GAUGES, SQUARES, BEVELS, ANGLE DIVIDERS, ETC. THE STANLEY WORKS, New Britain, Conn.
Filed January 20, 1938. Serial No. 402,145. PUBLISHED MARCH 21, 1939. Class 26.

367,727. PLANES, FIBRE BOARD CUTTERS, SCRAPERS, SPOKE SHAVES, BIT BRACES, HAND DRILLS, BREAST DRILLS, BIT EXTENSIONS, ETC. THE STANLEY WORKS, New Britain, Conn.
Filed January 20, 1938. Serial No. 402,146. PUBLISHED MARCH 21, 1939. Class 23.

367,728. BLANKETS. THE ESMOND MILLS, New York, N. Y.
Filed January 26, 1938. Serial No. 402,333. PUBLISHED MARCH 21, 1939. Class 42.

367,729. CLOTHING, PARTICULARLY WOMEN'S AND MISSES' DRESSES. THE MAGIC SNAP-ON DRESS CO., INC., New York, N. Y.
Filed January 27, 1938. Serial No. 402,381. PUBLISHED MARCH 21, 1939. Class 39.

367,730. SHOWER CURTAINS. JOSEPH A. KAPLAN, INC., New York, N. Y.
Filed February 9, 1938. Serial No. 402,888. PUBLISHED MARCH 21, 1939. Class 13.

367,731. THREAD AND YARN OF ARTIFICIAL ORIGIN. NORTH AMERICAN RAYON CORPORATION, New York, N. Y.
Filed February 23, 1938. Serial No. 403,323. PUBLISHED MARCH 14, 1939. Class 43.

367,732. DECORATIVE LAMINATED PANELING. THE FORMICA INSULATION COMPANY, Cincinnati, Ohio.
Filed March 23, 1938. Serial No. 404,404. PUBLISHED MARCH 21, 1939. Class 12.

367,733. PHOTOGRAPHIC CAMERAS AND CAMERA ATTACHMENTS. THE KALART COMPANY, New York, N. Y.
Filed March 26, 1938. Serial No. 404,540. PUBLISHED SEPTEMBER 27, 1938. Class 26.

367,734. PEANUT BUTTER AND ROASTED PEANUTS IN THE SHELL. E. F. LANE & SON, San Francisco, Calif.
Filed April 4, 1938. Serial No. 404,856. PUBLISHED MARCH 21, 1939. Class 46.

367,735. ROOFING MATERIALS—NAMELY, ASPHALT SHINGLES AND THE LIKE, ROOFING PAPER, WEATHER-PROOFING MATERIAL, THERMAL INSULATING MATERIALS, ETC. TILO ROOFING COMPANY, INC., Stratford, Conn.
Filed April 6, 1938. Serial No. 404,964. PUBLISHED MARCH 14, 1939. Class 12.

367,736. SUITS, DRESSES FOR WOMEN AND MISSES; COATS, SWEATERS, BATHING SUITS, JACKETS, AND BEACH ROBES FOR MEN, WOMEN, AND CHILDREN; UNDERWEAR AND HOSIERY FOR MEN AND WOMEN; AND MEN'S SWIMMING TRUNKS. GANTNER & MATTERN COMPANY, San Francisco, Calif.
Filed April 11, 1938. Serial No. 405,110. PUBLISHED MARCH 14, 1939. Class 39.

367,737. CANDIES. COOLS, INC., Detroit, Mich.
Filed April 13, 1938. Serial No. 405,197. PUBLISHED MARCH 21, 1939. Class 46.

367,738. EDIBLE OILS, OLIVE OILS, RICE, AND CONSERVES. PYRAMID COMMERCIAL CORPORATION, New York, N. Y.
Filed April 14, 1938. Serial No. 405,268. PUBLISHED MARCH 21, 1939. Class 46.

367,739. MATTRESSES, BOX SPRINGS, AND UPHOLSTERED FURNITURE. CAPITOL BEDDING CO., Hartford, Conn.
Filed April 28, 1938. Serial No. 405,803. PUBLISHED MARCH 21, 1939. Class 32.

367,740. DEVICES FOR ORAL HYGIENE, PARTICULARLY TOOTH BRUSHES, MASSAGE ELEMENTS FOR ORAL HYGIENE, AND COMBINED TOOTH BRUSHES AND MASSAGE ELEMENTS. LACTONA, INCORPORATED, St. Paul, Minn.
Filed May 18, 1938. Serial No. 406,454. PUBLISHED MARCH 21, 1939. Class 29.

367,741. OIL BURNERS. HOME OIL HEATING COMPANY, Passaic, N. J.
Filed May 25, 1938. Serial No. 406,715. PUBLISHED MARCH 21, 1939. Class 34.

367,742. WOMEN'S AND CHILDREN'S UNDERWEAR INCLUDING SLIPS, SWEATERS, BATHING SUITS, CHILDREN'S KNITTED SUITS, PAJAMAS. AUGUSTA KNITTING CORPORATION, Utica, N. Y.
Filed June 3, 1938. Serial No. 407,049. PUBLISHED AUGUST 23, 1938. Class 39.

367,743. MAGNESIUM ALLOYS, AND CASTINGS AND FORGINGS, ROLLED SHEETS, AND EXTRUDED OR PRESSED RODS AND BARS MADE OF MAGNESIUM ALLOYS. BRISKE & PROHL, Berlin, Germany.
Filed June 3, 1938. Serial No. 407,060. PUBLISHED MARCH 21, 1939. Class 14.

367,744. POULTRY FEEDERS, INCUBATORS, WATERING FOUNTAINS, LAYING CAGES, BROODERS, POULTRY NESTS, AND ROOF SADDLES AND ROOF SADDLE CAPS FOR BROODERS. GLOBE AMERICAN CORPORATION, doing business as Makomb Steel Products Company, Kokomo, Ind., and Macomb, Ill.
Filed June 3, 1938. Serial No. 407,063. PUBLISHED MARCH 21, 1939. Class 50.

367,745. FRESH CITRUS FRUIT. CALL RANCH, also doing business as A. F. Call Estate, Corona, Calif.
Filed June 6, 1938. Serial No. 407,128. PUBLISHED MARCH 14, 1939. Class 46.

367,746. PRESHAVING FACE LOTION. HI-HO COMPANY, Reno, Nev.
Filed June 16, 1938. Serial No. 407,547. PUBLISHED MARCH 21, 1939. Class 4.

367,747. MACHINES FOR SOIL CULTIVATION AND PARTS OF SUCH MACHINES. MAINE STEEL, INC., South Portland, Maine.
Filed June 17, 1938. Serial No. 407,597. PUBLISHED MARCH 21, 1939. Class 23.

367,748. CHEWING GUM. O-PEE-CHEE COMPANY LIMITED, London, Ontario, Canada.
Filed June 25, 1938. Serial No. 407,966. PUBLISHED MARCH 21, 1939. Class 46.

367,749. RUGS. STITT & HOWELL, INC., New York, N. Y.
Filed June 28, 1938. Serial No. 407,996. PUBLISHED MARCH 21, 1939. Class 42.

367,750. CEREAL BINDER COMPOSED WHOLLY OF GRAIN AND SOLD AS A CORE BINDER. CHAS. A. KRAUSE MILLING CO., Milwaukee, Wis.
Filed July 7, 1938. Serial No. 408,280. PUBLISHED MARCH 21, 1939. Class 5.

367,751. DUPLICATING DEVICES PARTICULARLY THOSE FOR TRANSFERRING INK BY MEANS OF A BODY OF GELATIN. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed July 8, 1938. Serial No. 408,326. PUBLISHED MARCH 21, 1939. Class 37.

367,752. WHEAT FLOUR, FRESH GRAPES, APPLES, PEARS, PLUMS, ORANGES, LEMONS, AND CANNED FISH. CONNELL BROS. COMPANY LIMITED, San Francisco, Calif.
Filed July 16, 1938. Serial No. 408,564. PUBLISHED MARCH 21, 1939. Class 46.

367,753. WINDOWS, DOORS, WINDOW AND DOOR SCREENS, SHUTTER BLINDS, AND WEATHER STRIPPING. ERIC SIGFRID PERSSON, Malmo, Sweden.
Filed July 19, 1938. Serial No. 408,738. PUBLISHED MARCH 21, 1939. Class 12.

367,754. YARN IN CONTINUOUS AND STAPLE LENGTHS. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.
Filed August 13, 1938. Serial No. 409,574. PUBLISHED MARCH 14, 1939. Class 43.

367,755. CONDENSER PAPER. THE STEVENS PAPER MILLS, INCORPORATED, Westfield, Mass.
Filed August 17, 1938. Serial No. 409,712. PUBLISHED MARCH 21, 1939. Class 37.

367,756. WIDEMOUTH GLASS JARS OR CONTAINERS, SOLD EMPTY, FOR CIGARS AND THE LIKE. OWENS-ILLINOIS GLASS COMPANY, Toledo, Ohio.
Filed August 18, 1938. Serial No. 409,740. PUBLISHED MARCH 21, 1939. Class 8.

367,757. MATS FOR PRINTED MEDIA. SAMUEL L. KORNFELD, Wichita, Kans.
Filed August 29, 1938. Serial No. 410,095. PUBLISHED MARCH 21, 1939. Class 50.

367,758. RAYON PIECE GOODS. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.
Filed August 31, 1938. Serial No. 410,138. PUBLISHED MARCH 21, 1939. Class 42.

367,759. TOPCOATS, OVERCOATS, COATS, VESTS, TROUSERS, AND KNICKERBOCKERS FOR MEN, YOUTHS, AND BOYS. L. GREIF & BRO., INC., Baltimore, Md.
Filed September 6, 1938. Serial No. 410,291. PUBLISHED MARCH 14, 1939. Class 39.

367,760. GOLD, SILVER, AND PLATINUM JEWELRY, WITH AND WITHOUT DIAMONDS NOT INCLUDING WATCHES. M. H. SHIMAN & CO. INC., New York, N. Y.
Filed September 8, 1938. Serial No. 410,491. PUBLISHED MARCH 14, 1939. Class 28.

367,761. PRINTED ADVERTISING SIGNS SOLD IN COMBINATION WITH THE ADVERTISING SERVICE OF THE APPLICANT. HEARST MAGAZINES INC., New York, N. Y.
Filed September 13, 1938. Serial No. 410,505. PUBLISHED MARCH 14, 1939. Class 38.

367,762. BRUSHES AND BRUSH SETS AND WHISK BROOMS AND HAIR BRUSHES MADE OF PRECIOUS METALS OR PLATED WITH THE SAME. THE HERMAN COHN LEATHER GOODS COMPANY, Baltimore, Md.
Filed September 13, 1938. Serial No. 410,575. PUBLISHED MARCH 14, 1939. Class 28.

367,763. NONALCOHOLIC MALTLESS BEVERAGES. MR. NEWPORT, INC., Chicago, Ill.
Filed September 19, 1938. Serial No. 410,745. PUBLISHED MARCH 21, 1939. Class 45.

367,764. RED CEDAR SHINGLES. RED CEDAR SHINGLE BUREAU, Seattle, Wash.
Filed September 19, 1938. Serial No. 410,749. PUBLISHED MARCH 21, 1939. Class 12.

367,765. SELF-DRIVEN CULTIVATING AND HARVESTING MACHINERY, AND PARTS THEREOF. HUME-LOVE COMPANY, Garfield, Wash.
Filed September 23, 1938. Serial No. 410,908. PUBLISHED DECEMBER 20, 1938. Class 23.

367,766. CROCHET COTTON, SEWING COTTON, COTTON YARN, KNITTING YARN, YARNS (EXCEPT ROPE), AND COTTON WEAVING YARNS. MT. VERNON-WOODBERRY MILLS, INC., Baltimore, Md.
Filed September 30, 1938. Serial No. 411,131. PUBLISHED MARCH 14, 1939. Class 43.

367,767. BEER AND ALE. IROQUOIS BEVERAGE CORPORATION, Buffalo, N. Y.
Filed October 1, 1938. Serial No. 411,165. PUBLISHED DECEMBER 6, 1938. Class 48.

367,768. BEER AND ALE. IROQUOIS BEVERAGE CORPORATION, Buffalo, N. Y.
Filed October 1, 1938. Serial No. 411,166. PUBLISHED DECEMBER 6, 1938. Class 48.

367,769. BOXES, CASES, RECEPTACLES, AND CASINGS IN ALL FORMS MADE OF PLASTIC MATERIALS—NAMELY, MOLDED PLASTIC BOXES FOR CONTAINING ALL KINDS OF MERCHANDISE, INCLUDING BOXES FOR PENS, PENCILS, AND WATCHES; BOXES FOR WRITING PAPER, RECEPTACLES FOR MEMORANDUM PAPER, PLAYING CARD BOXES. GORHAM MANUFACTURING COMPANY, Providence, R. I.
Filed October 4, 1938. Serial No. 411,271. PUBLISHED OCTOBER 21, 1939. Class 2.

367,770. HANDBAGS. SAMUEL KORET, New York, N. Y. Filed October 11, 1938. Serial No. 411,501. PUBLISHED MARCH 21, 1939. Class 3.

367,771. YOUNG MEN'S, YOUTHS', AND BOYS' CLOTHING—NAMELY, SUITS, OVERCOATS, JACKETS, AND TROUSERS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., doing business as The M. O'Neil Co., Akron, Ohio; The May Co., Baltimore, Md., Cleveland, Ohio, Los Angeles, Calif., and Denver, Colo.; and as the Famous-Barr Co., St. Louis, Mo.
Filed October 11, 1938. Serial No. 411,506. PUBLISHED MARCH 14, 1939. Class 39.

367,772. CRACKERS IN VARIOUS SHAPES INCLUDING CRACKERS CONTAINING OR SPRAYED WITH A VEGETABLE OIL. ASSOCIATED BISCUIT Co., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y.
Filed October 13, 1938. Serial No. 411,563. PUBLISHED MARCH 21, 1939. Class 46.

367,773. PROTECTIVE COATING MATERIALS IN THE FORM OF MASTIC OR PLASTIC. THERMAL PRODUCTS CORPORATION, Pittsburgh, Pa.
Filed October 21, 1938. Serial No. 411,914. PUBLISHED MARCH 14, 1939. Class 12.

367,774. SOAP POWDER. ANTON HOHNHOLD, doing business as The Home Soap Co., North Haledon, N. J.
Filed October 25, 1938. Serial No. 412,032. PUBLISHED MARCH 21, 1939. Class 4.

367,775. HOSIERY. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J.
Filed October 27, 1938. Serial No. 412,101. PUBLISHED JANUARY 3, 1939. Class 39.

367,776. GUIDE CHANNEL MEMBERS FOR USE IN STORM WINDOW CONSTRUCTIONS. MARTIN FRANCIS GAGNIER, doing business as Insulaire Company, Detroit, Mich.
Filed October 28, 1938. Serial No. 412,129. PUBLISHED MARCH 21, 1939. Class 12.

367,777. KNITTED SWEATERS OF WOOL, COTTON, OR MIXTURES OF FIBROUS MATERIALS. ROPER KNITTING COMPANY, INC., Canandaigua, N. Y.
Filed October 28, 1938. Serial No. 412,156. PUBLISHED MARCH 14, 1939. Class 39.

367,778. TOILET SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed October 29, 1938. Serial No. 412,170. PUBLISHED MARCH 21, 1939. Class 4.

367,779. TOFFEE, CHOCOLATE COVERED TOFFEE, AND BOILED SWEETS—NAMELY, CANDY. GEORGE W. HORNER & Co. LIMITED, Chester-le-Street, England.
Filed OCTOBER 29, 1938. Serial No. 412,186. PUBLISHED FEBRUARY 14, 1939. Class 46.

367,780. TOFFEE, CHOCOLATE COVERED TOFFEE, AND BOILED SWEETS—NAMELY, CANDY. GEORGE W. HORNER & Co. LIMITED, Chester-le-Street, England.
Filed October 29, 1938. Serial No. 412,187. PUBLISHED FEBRUARY 14, 1939. Class 46.

367,781. ELECTRIC HEAD LAMP FOR VEHICLES. TRIPPE MANUFACTRING COMPANY, Chicago, Ill.
Filed November 2, 1938. Serial No. 412,313. PUBLISHED MARCH 21, 1939. Class 21.

367,782. KNITTED SPORTWEAR—VIZ.: DRESSES, SUITS, SWEATERS, AND SKIRTS FOR WOMEN AND MISSES. ELLEN KAY KNITTING MILLS, INC., San Francisco, Calif.
Filed November 14, 1938. Serial No. 412,701. PUBLISHED MARCH 21, 1939. Class 39.

367,783. WALL AND FLOOR TILES, SLABS, BLOCKS, INSULATION FOR OIL LINES, AND SETTERS FOR PIPE LINES—I. E., BLOCKS USED IN THE CONSTRUCTION OF PIPE LINES BUILT FOR THE PUMPING AND TRANSPORTATION OF PETROLEUM. FRANKLIN TILE COMPANY, Lansdale, Pa.
Filed November 22, 1938. Serial No. 413,041. PUBLISHED MARCH 7, 1939. Class 12.

367,784. PRINTED ADVERTISING SIGNS AND PRINTED BILLBOARD SHEETS SOLD AS SUCH MADE OF PAPER AND CARDBOARD. JOHN JASPER, New York, N. Y.
Filed November 22, 1938. Serial No. 413,046. PUBLISHED MARCH 21, 1939. Class 38.

367,785. STAINLESS STEEL HAND TOOL USED IN PICKING UP, TRANSFERRING, AND DISPENSING MATERIALS SUCH AS CHEMICAL SALTS. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed November 30, 1938. Serial No. 413,303. PUBLISHED MARCH 21, 1939. Class 23.

367,786. BREAD. THE W. J. FITZPATRICK COMPANY, Chicago, Ill.
Filed November 30, 1938. Serial No. 413,304. PUBLISHED MARCH 21, 1939. Class 46.

367,787. MEN'S OVERCOATS. LEOPOLD MORSE COMPANY, Boston, Mass.
Filed December 1, 1938. Serial No. 413,351. PUBLISHED MARCH 14, 1939. Class 39.

367,788. ADHESIVES CONTAINING STARCH. STEIN, HALL & COMPANY, INC., New York, N. Y.
Filed December 1, 1938. Serial No. 413,368. PUBLISHED MARCH 14, 1939. Class 5.

367,789. ELECTRIC CLOCKS. THE ANSONIA CLOCK COMPANY, INC., New York, N. Y.
Filed December 3, 1938. Serial No. 413,432. PUBLISHED MARCH 21, 1939. Class 27.

367,790. GASOLINE. STATEN ISLAND HOME UTILITIES, Port Richmond and Staten Island, N. Y.
Filed December 5, 1938. Serial No. 413,490. PUBLISHED MARCH 21, 1939. Class 15.

367,791. LIQUID LEVEL GAUGES. THE ZIP ABRASIVE COMPANY, Cleveland, Ohio.
Filed December 6, 1938. Serial No. 413,529. PUBLISHED MARCH 21, 1939. Class 26.

367,792. JEWELRY AND ARTICLES OF PERSONAL ADORNMENT EXCEPT WATCHES. I. ROSKIN COMPANY, INC., New York, N. Y.
Filed December 7, 1938. Serial No. 413,561. PUBLISHED MARCH 14, 1939. Class 28.

367,793. METAL FRAMING ELEMENTS FOR BUILDINGS. GREAT LAKES STEEL CORPORATION, Ecorse, Mich.
Filed December 8, 1938. Serial No. 413,580. PUBLISHED MARCH 7, 1939. Class 12.

367,794. MOTOR OIL IN BOTTLES OF QUART SIZES. HARVEY W. BEDFORD, doing business as Bedford & Sons, Los Angeles, Calif.
Filed December 12, 1938. Serial No. 413,757. PUBLISHED MARCH 14, 1939. Class 15.

367,795. MOTOR OIL IN BOTTLES OF QUART SIZES. HARVEY W. BEDFORD, doing business as Bedford & Sons, Los Angeles, Calif.
Filed December 12, 1938. Serial No. 413,758. PUBLISHED MARCH 14, 1939. Class 15.

367,796. MOTOR OIL IN BOTTLES OF QUART SIZES. HARVEY W. BEDFORD, doing business as Bedford & Sons, Los Angeles, Calif.
Filed December 12, 1938. Serial No. 413,759. PUBLISHED MARCH 14, 1939. Class 15.

367,797. COIN-OPERATED BEVERAGE DISPENSING MACHINES. SPACARB, INC., Jersey City, N. J.
Filed December 13, 1938. Serial No. 413,801. PUBLISHED MARCH 21, 1939. Class 23.

367,798. LADIES' SWEATERS. JENATH KNITWEAR, INC., Brooklyn, N. Y.
Filed December 14, 1938. Serial No. 413,829. PUBLISHED MARCH 14, 1939. Class 39.

367,799. ROTARY HONING AND GRINDING TOOLS FOR FINISHING CYLINDER BORES OR THE LIKE. MICROMATIC HONE CORPORATION, Detroit, Mich.
Filed December 14, 1938. Serial No. 413,836. PUBLISHED MARCH 21, 1939. Class 23.

367,800. ROTARY HONING AND GRINDING TOOLS FOR FINISHING CYLINDER BORES OR THE LIKE. MICROMATIC HONE CORPORATION, Detroit, Mich.
Filed December 14, 1938. Serial No. 413,837. PUBLISHED MARCH 21, 1939. Class 23.

367,801. ELECTRIC LAMPS FOR USE AS A THERAPEUTIC AGENT. ELGIN LABORATORIES, INC., Chicago, Ill.
Filed December 15, 1938. Serial No. 413,862. PUBLISHED MARCH 21, 1939. Class 44.

367,802. OIL SILK RAIN SUIT. BEULAH HOLT, doing business as Beulah Holt Rainette Co., Kansas City, Mo.
Filed December 15, 1938. Serial No. 413,869. PUBLISHED MARCH 14, 1939. Class 39.

367,803. COVER PAPER. CLOPAY CORPORATION, Cincinnati, Ohio.
Filed December 16, 1938. Serial No. 413,896. PUBLISHED MARCH 21, 1939. Class 37.

367,804. COVER PAPER. CLOPAY CORPORATION, Cincinnati, Ohio.
Filed December 16, 1938. Serial No. 413,897. PUBLISHED MARCH 21, 1939. Class 37.

367,805. PRINTED COLOR COMPARING TRANSPARENT SHEETS. CLARENCE S. BROWN & Co., INC., New York, N. Y.
Filed December 17, 1938. Serial No. 413,928. PUBLISHED MARCH 14, 1939. Class 38.

367,806. GAMES—TO WIT, A BOARD GAME PLAYED WITH MOVABLE PIECES. WILLIAM T. GRAFF, JR., White Plains, N. Y.
Filed December 20, 1938. Serial No. 414,028. PUBLISHED MARCH 21, 1939. Class 22.

367,807. ABSORBENT PADS ADAPTED TO BE USED AS BED, CRIB, AND HOSPITAL PADS, BATH MATS, BIBS, AND FOR OTHER PURPOSES. JOY PRODUCTS CORPORATION, Watertown, N. Y.
Filed December 20, 1938. Serial No. 414,030. PUBLISHED MARCH 21, 1939. Class 50.

367,808. ALE. JACOB RUPPERT, New York, N. Y.
Filed December 20, 1938. Serial No. 414,042. PUBLISHED MARCH 21, 1939. Class 48.

367,809. PHOTOGRAPHIC PRINTS. BENJAMIN F. FEINER, JR., New York, N. Y.
Filed December 21, 1938. Serial No. 414,062. PUBLISHED MARCH 21, 1939. Class 38.

367,810. MEN'S, WOMEN'S, BOYS', AND GIRLS' COATS, RAINCOATS, OVERCOATS, AND TOPCOATS. THE MANSBROOKE RAINWEAR Co., Needham Heights, Mass.
Filed December 21, 1938. Serial No. 414,075. PUBLISHED MARCH 14, 1939. Class 39.

367,811. OUTER AND UNDER SHIRTS, PAJAMAS, MEN'S AND BOYS' UNDERWEAR, AND MEN'S AND BOYS' POLO SHIRTS, SPORT SHIRTS, AND SLACKS. SOUTHLAND MANUFACTURING COMPANY, INC., Wilmington, N. C.
Filed December 23, 1938. Serial No. 414,164. PUBLISHED MARCH 14, 1939. Class 39.

367,812. MEN'S OVERCOATS AND TOPCOATS CONTAINING A SUBSTANTIAL CONTENT OF CAMEL'S HAIR. LOUIS WEINBERG, doing business as Wonder Clothes, Baltimore, Md.
Filed December 23, 1938. Serial No. 414,172. PUBLISHED MARCH 21, 1939. Class 39.

367,813. LADIES' AND MISSES' DRESSES. FRED PERLBERG, INC., New York, N. Y.
Filed December 24, 1938. Serial No. 414,201. PUBLISHED MARCH 14, 1939. Class 39.

367,814. CIGARS. WAITT & BOND, INC., Newark, N. J.
Filed December 24, 1938. Serial No. 414,210. PUBLISHED MARCH 21, 1939. Class 17.

367,815. LIGHT REFLECTOR FOR ELECTRIC LAMPS. FRANK KELLEY, INC., Elkins Park, Pa.
Filed December 27, 1938. Serial No. 414,228. PUBLISHED MARCH 21, 1939. Class 34.

367,816. WOMEN'S AND MISSES' SLIPS, MADE OF SILK, SATIN, RAYON, AND/OR COMBINATIONS THEREOF. BREGSTEIN-RICHMAN INC., New York, N. Y.
Filed December 28, 1938. Serial No. 414,254. PUBLISHED MARCH 14, 1939. Class 39.

367,817. MASONRY MORTAR. LADD LIME & STONE Co., Cartersville, Ga.
Filed December 28, 1938. Serial No. 414,265. PUBLISHED MARCH 14, 1939. Class 12.

367,818. TIRE VALVE STEMS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 29, 1938. Serial No. 414,316. PUBLISHED MARCH 21, 1939. Class 13.

367,819. CLOTHING FOR WOMEN—NAMELY, LADIES' AND MISSES' DRESSES, COATS, SUITS, GOWNS, EVENING GOWNS, AFTERNOON GOWNS, AND DINNER GOWNS, THE SAME BEING MADE OF SILK, SATIN, COTTON, WOOL, WORSTED, AND COMBINATIONS OF COTTON, SILK, SATIN, WOOL, OR WORSTED, OF KNIT GOODS, AND OF RAYON. RUSSEKS FIFTH AVENUE, INC., New York, N. Y.
Filed December 29, 1938. Serial No. 414,324. PUBLISHED MARCH 21, 1939. Class 39.

367,820. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. ELASTIC TOE CORPORATION, New York, N. Y.
Filed December 30, 1938. Serial No. 414,342. PUBLISHED MARCH 14, 1939. Class 39.

367,821. NEEDLES FOR TALKING MACHINES. RCA MANUFACTURING COMPANY, INC., Camden, N. J.
Filed December 30, 1938. Serial No. 414,366. PUBLISHED MARCH 21, 1939. Class 36.

367,822. LADIES' CHEMISES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed December 30, 1938. Serial No. 414,371. PUBLISHED MARCH 14, 1939. Class 39.

367,823. LEATHER. B. D. EISENDRATH TANNING COMPANY, Chicago, Ill.
Filed January 3, 1939. Serial No. 414,439. PUBLISHED MARCH 21, 1939. Class 1.

367,824. WINDOW POSTERS. SHELLMAR PRODUCTS COMPANY, Mount Vernon, Ohio.
Filed January 3, 1939. Serial No. 414,472. PUBLISHED MARCH 21, 1939. Class 38.

367,825. HEADING OF A DEPARTMENT OF A PERIODICAL. CONCRETE PUBLISHING CORPORATION, Chicago, Ill.
Filed January 4, 1939. Serial No. 414,485. PUBLISHED MARCH 14, 1939. Class 38.

367,826. PUBLICATION CONTAINING NEWS, REVIEWS, INFORMATION, AND EDUCATIONAL ARTICLES PUBLISHED AT REGULAR INTERVALS. INTERNATIONAL TOASTMISTRESS CLUBS, San Francisco, Calif.
Filed January 4, 1939. Serial No. 414,497. PUBLISHED MARCH 14, 1939. Class 38.

367,827. COLUMN OR SECTION IN A MONTHLY MAGAZINE. THE PARENTS' INSTITUTE, INC., New York, N. Y.
Filed January 4, 1939. Serial No. 414,503. PUBLISHED MARCH 14, 1939. Class 38.

367,828. PANTS, TROUSERS, AND SLACKS MADE EXCLUSIVELY FOR OFFICERS IN THE MILITARY SERVICE. TARSHES BROS., INC., New York, N. Y.
Filed January 5, 1939. Serial No. 414,540. PUBLISHED MARCH 14, 1939. Class 39.

367,829. SHIRTS MADE EXCLUSIVELY FOR OFFICERS IN THE MILITARY SERVICE. TARSHES BROS., INC., New York, N. Y.
Filed January 5, 1939. Serial No. 414,541. PUBLISHED MARCH 14, 1939. Class 39.

367,830. PERIODICALLY PUBLISHED MAGAZINE KNOWN AS YOUTH'S DIGEST. JAMES ELLIOTT MOONEY, Philadelphia, Pa.
Filed December 31, 1938. Serial No. 414,545. PUBLISHED MARCH 21, 1939. Class 38.

367,831. PERIODICAL PUBLICATION. LORAN M. ROGERS, Webster City, Iowa.
Filed January 5, 1939. Serial No. 414,547. PUBLISHED MARCH 14, 1939. Class 38.

367,832. PERIODICAL PUBLICATION. LORAN M. ROGERS, Webster City, Iowa.
Filed January 5, 1939. Serial No. 414,548. PUBLISHED MARCH 14, 1939. Class 38.

367,833. PERIODICAL MAGAZINE. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y.
Filed January 7, 1939. Serial No. 414,594. PUBLISHED MARCH 14, 1939. Class 38.

367,834. CIGARS, CIGARETTES, SMOKING AND CHEWING TOBACCO. JOHN B. MURPHY, Minneapolis, Minn.
Filed January 7, 1939. Serial No. 414,602. PUBLISHED MARCH 21, 1939. Class 17.

367,835. PAJAMAS. SANDERS & JUNGREIS, New York, N. Y.
Filed January 7, 1939. Serial No. 414,605. PUBLISHED MARCH 14, 1939. Class 39.

367,836. CHEESE. HOLLAND FOOD CORPORATION, New York, N. Y.
Filed December 31, 1938. Serial No. 414,609. PUBLISHED MARCH 21, 1939. Class 46.

367,837. LADDERS, PARTICULARLY STEPLADDERS, AND EXTENSION LADDERS. MOULTON LADDER MANUFACTURING CO., Somerville, Mass.
Filed January 9, 1939. Serial No. 414,637. PUBLISHED MARCH 21, 1939. Class 50.

367,838. SPRING ASSEMBLIES FOR UPHOLSTERY AND UPHOLSTERY UNITS EQUIPPED WITH SPRING ASSEMBLIES SUCH AS MATTRESSES AND CUSHIONS. NACHMAN SPRINGFILLED CORPORATION, Chicago, Ill.
Filed January 9, 1939. Serial No. 414,641. PUBLISHED MARCH 21, 1939. Class 32.

367,839. QUARTERLY PUBLICATIONS RELATING TO THE TEACHING OF PIANO PLAYING. IAN MININBERO, doing business as Keyboard Publishing Co., New Haven, Conn.
Filed January 10, 1939. Serial No. 414,667. PUBLISHED MARCH 14, 1939. Class 38.

367,840. LAPEL BUTTONS, BADGES, MEDALLIONS, BUTTONS WITH PINS, AND METAL IDENTIFICATION TAGS. IRWIN OLENIK, New York, N. Y.
Filed January 10, 1939. Serial No. 414,668. PUBLISHED MARCH 21, 1939. Class 50.

367,841. COMBINATION PEN AND INK ERASER. THE SPENCERIAN PEN COMPANY, New York, N. Y.
Filed January 10, 1939. Serial No. 414,670. PUBLISHED MARCH 21, 1939. Class 37.

367,842. COFFEE. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed January 10, 1939. Serial No. 414,674. PUBLISHED MARCH 21, 1939. Class 46.

367,843. CIGARETTES, CIGARS, AND SMOKING TOBACCO. L. ARONOWITZ, doing business as Royal Canadian Tobacco Company, Toronto, Ontario, Canada.
Filed January 11, 1939. Serial No. 414,677. PUBLISHED MARCH 21, 1939. Class 17.

367,844. CIGARETTES, CIGARS, AND SMOKING TOBACCOS. L. ARONOWITZ, doing business as Royal Canadian Tobacco Company, Toronto, Ontario, Canada.
Filed January 11, 1939. Serial No. 414,678. PUBLISHED MARCH 21, 1939. Class 17.

367,845. BATHING SUITS. CENTRAL KNITWEAR MILLS, INC., New York, N. Y.
Filed January 11, 1939. Serial No. 414,685. PUBLISHED MARCH 14, 1939. Class 39.

367,846. MEN'S NEGLIGEE, DRESS, AND SPORT SHIRTS, AND PAJAMAS. THE ENRO SHIRT CO., Louisville, Ky.
Filed January 11, 1939. Serial No. 414,693. PUBLISHED MARCH 14, 1939. Class 39.

367,847. PENS, FOUNTAIN PENS, AND PENCILS. GENE KAPP, New York, N. Y.
Filed January 11, 1939. Serial No. 414,700. PUBLISHED MARCH 21, 1939. Class 37.

367,848. LADIES' AND MISSES' DRESSES. DAVID CRYSTAL, INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,727. PUBLISHED MARCH 21, 1939. Class 39.

367,849. SILVER-PLATED FLATWARE FOR TABLE USE AND THE LIKE. INTERNATIONAL SILVER COMPANY, Meriden, Conn.
Filed January 12, 1939. Serial No. 414,740. PUBLISHED MARCH 21, 1939. Class 28.

367,850. DRY, READY-MIXED, AND PASTE PAINTS; SEALERS, PRIMERS, UNDERCOATERS, PAINT ENAMELS, BLENDING AND GLAZING LIQUIDS IN THE NATURE OF VARNISHES, AND VARNISHES. STANDARD VARNISH WORKS, Staten Island, N. Y.
Filed January 12, 1939. Serial No. 414,757. PUBLISHED MARCH 21, 1939. Class 16.

367,851. PUBLICATION, AT THE PRESENT ISSUED WEEKLY, AS AN ADVERTISING AND NEWS SERVICE FOR MERCHANTS DEALING PARTICULARLY IN WINES AND LIQUORS. TRADE NEWSPAPERS CORPORATION, New York, N. Y.
Filed January 12, 1939. Serial No. 414,760. PUBLISHED MARCH 14, 1939. Class 38.

367,852. COMPOSITION SHINGLES AND ROLL ROOFING. ARTIC ROOFINGS, INC., Edge Moor, Del.
Filed January 13, 1939. Serial No. 414,767. PUBLISHED MARCH 21, 1939. Class 12.

367,853. COMPOSITION SHINGLES AND ROLL ROOFING. ARTIC ROOFINGS, INC., Edge Moor, Del.
Filed January 13, 1939. Serial No. 414,768. PUBLISHED MARCH 14, 1939. Class 12.

367,854. COMPOSITION SHINGLES AND ROLL ROOFING. ARTIC ROOFINGS, INC., Edge Moor, Del.
Filed January 13, 1939. Serial No. 414,769. PUBLISHED MARCH 14, 1939. Class 12.

367,855. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed January 14, 1939. Serial No. 414,820. PUBLISHED MARCH 21, 1939. Class 42.

367,856. MAGAZINE OR PERIODICAL PUBLISHED MONTHLY. LISTENERS DIGEST, INC., New York, N. Y.
Filed January 14, 1939. Serial No. 414,827. PUBLISHED MARCH 21, 1939. Class 38.

367,857. SOUND DEADENING PLASTIC COMPOUND. J. W. MORTELL COMPANY, Kankakee, Ill.
Filed January 14, 1939. Serial No. 414,829. PUBLISHED MARCH 14, 1939. Class 12.

367,858. TEXTILE FABRICS IN THE PIECE—NAMELY, SILK FABRICS, RAYON FABRICS, COTTON FABRICS, AND/OR COMBINATIONS THEREOF. SAMUEL SERWER & SONS, New York, N. Y.
Filed January 16, 1939. Serial No. 414,853. PUBLISHED MARCH 21, 1939. Class 42.

367,859. FOOD PRODUCT INGREDIENTS—NAMELY, SOYA BEAN FLOUR AND ADDED GUMS USED IN SAUSAGES AND THE LIKE. AMERICAN SOYA PRODUCTS CORPORATION, Evansville, Ind.
Filed January 16, 1939. Serial No. 414,855. PUBLISHED MARCH 21, 1939. Class 46.

367,860. CLEANSING AND POLISHING COMPOUNDS FOR GLASSWARE, DISHES, AND THE LIKE, AND FOR HOUSEHOLD AND INDUSTRIAL USES. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
Filed January 16, 1939. Serial No. 414,870. PUBLISHED MARCH 21, 1939. Class 4.

367,861. CLEANSING AND POLISHING COMPOUNDS FOR GLASSWARE, DISHES, AND THE LIKE, AND FOR HOUSEHOLD AND INDUSTRIAL USES. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
Filed January 16, 1939. Serial No. 414,871. PUBLISHED MARCH 21, 1939. Class 4.

367,862. PREPARED FOOD PRODUCTS—NAMELY, CANNED RAVIOLIS IN ITALIAN STYLE SAUCE. RIVIERA PACKING COMPANY, Oakland, Calif.
Filed January 16, 1939. Serial No. 414,891. PUBLISHED MARCH 21, 1939. Class 46.

367,863. HOUSE PAINT. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 16, 1939. Serial No. 414,897. PUBLISHED MARCH 21, 1939. Class 16.

367,864. WOMEN'S, MISSES', AND JUNIORS' BLOUSES, SHIRTS, SKIRTS, AND DRESSES. ADELAAR BROS., INC., New York, N. Y.
Filed January 18, 1939. Serial No. 414,939. PUBLISHED MARCH 21, 1939. Class 39.

367,865. FROZEN CONFECTIONS AND CRACKERS. JOE LOWE CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,955. PUBLISHED MARCH 21, 1939. Class 46.

367,866. FROZEN CONFECTIONS AND CRACKERS. JOE LOWE CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,956. PUBLISHED MARCH 21, 1939. Class 46.

367,867. PIANOS. AEOLIAN AMERICAN CORPORATION, New York, N. Y.
Filed January 19, 1939. Serial No. 414,978. PUBLISHED MARCH 21, 1939. Class 36.

367,868. ELECTRICAL TRANSCRIPTIONS. EMPIRE BROADCASTING CORPORATION, New York, N. Y.
Filed January 19, 1939. Serial No. 414,980. PUBLISHED MARCH 21, 1939. Class 36.

367,869. MONTHLY PUBLICATION. THE MILLER PUBLISHING CO., Minneapolis, Minn.
Filed January 19, 1939. Serial No. 415,007. PUBLISHED MARCH 14, 1939. Class 38.

367,870. APPARATUS INCLUDING A METER, A SWITCH, AND NECESSARY WIRING, FOR USE IN EFFECTING THE SYNCHRONIZATION OF A PLURALITY OF INTERNAL COMBUSTION ENGINES. SYNCHRO-LOCK, INC., Boston, Mass.
Filed January 19, 1939. Serial No. 415,015. PUBLISHED MARCH 21, 1939. Class 26.

367,871. NEWS COLUMN AND SPECIAL ARTICLES APPEARING DAILY OF FROM TIME TO TIME. ELEANOR MEDILL PATTERSON, doing business as Patterson Newspapers and/or Washington Herald-Times, Washington, D. C.
Filed January 20, 1939. Serial No. 415,055. PUBLISHED MARCH 14, 1939. Class 38.

367,872. PLANES AND HAMMERS. THE CAPEWELL MANUFACTURING COMPANY, Hartford, Conn.
Filed January 21, 1939. Serial No. 415,072. PUBLISHED MARCH 21, 1939. Class 23.

367,873. PORTABLE GRINDING MACHINES UTILIZING ABRASIVE WHEELS. A. P. DE SANNO & SON, INC., Philadelphia and Phoenixville, Pa.
Filed January 21, 1939. Serial No. 415,075. PUBLISHED MARCH 21, 1939. Class 23.

367,874. STORAGE BATTERIES. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 21, 1939. Serial No. 415,077. PUBLISHED MARCH 21, 1939. Class 21.

367,875. MONTHLY PERIODICAL. THE METHODIST BOOK CONCERN, Cincinnati, Ohio.
Filed January 21, 1939. Serial No. 415,086. PUBLISHED MARCH 14, 1939. Class 38.

367,876. CARTOON SERIES. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed January 23, 1939. Serial No. 415,128. PUBLISHED MARCH 14, 1939. Class 38.

367,877. WHISKEY. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed January 24, 1939. Serial No. 415,162. PUBLISHED MARCH 21, 1939. Class 49.

367,878. THREAD. THE AMERICAN THREAD COMPANY, New York, N. Y.
Filed January 25, 1939. Serial No. 415,207. PUBLISHED MARCH 21, 1939. Class 43.

367,879. SILVER-PLATED FLATWARE. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass.
Filed January 25, 1939. Serial No. 415,226. PUBLISHED MARCH 21, 1939. Class 28.

367,880. BOARD GAMES PLAYED WITH MOVABLE PIECES. L. S. HENDERSON, doing business as King Do-G Co., Parsons, Kans.
Filed January 26, 1939. Serial No. 415,249. PUBLISHED MARCH 21, 1939. Class 22.

367,881. SELF-DISPOSING PAPER TOILET SEAT COVERS. CONSOLIDATED COVER CO., San Francisco, Calif.
Filed January 28, 1939. Serial No. 415,327. PUBLISHED MARCH 21, 1939. Class 37.

367,882. MATTRESSES. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill.
Filed January 28, 1939. Serial No. 415,358. PUBLISHED MARCH 21, 1939. Class 32.

367,883. ROCK AND RYE, ROCK AND RUM, ROCK AND GIN, VERMOUTH AND WHISKEY, VERMOUTH BITTERS, KUMMEL, BITTERS, PEPPERMINT SCHNAPPS, SLOE GIN, CRÈME DE MENTHE, CRÈME DE COCOA, BLACKBERRY LIQUEUR, CHERRY LIQUEUR, PEACH LIQUEUR, AND APRICOT LIQUEUR. NATIONAL CORDIAL CO., INC., Chicago, Ill.
Filed February 4, 1939. Serial No. 415,606. PUBLISHED MARCH 21, 1939. Class 49.

367,884. COMPOSITION BOOKS, LOOSE LEAF FILLERS AND BINDERS. S. E. & M. VERNON, INC., New York, N. Y.
Filed February 4, 1939. Serial No. 415,614. PUBLISHED MARCH 21, 1939. Class 37.

367,885. WHISKEY. HIRAM WALKER & SONS INC., Peoria, Ill.
Filed February 4, 1939. Serial No. 415,616. PUBLISHED MARCH 21, 1939. Class 49.

367,886. JOINT PACKING. AZOR CORPORATION, Newark, N. J.
Filed February 6, 1939. Serial No. 415,624. PUBLISHED MARCH 21, 1939. Class 35.

367,887. JOINT PACKING. AZOR CORPORATION, Newark, N. J.
Filed February 6, 1939. Serial No. 415,625. PUBLISHED MARCH 21, 1939. Class 35.

367,888. PISTON RINGS. MUSKEGON PISTON RING COMPANY, Muskegon, Mich.
Filed February 6, 1939. Serial No. 415,661. PUBLISHED MARCH 21, 1939. Class 35.

367,889. WHISKY, BRANDY, RUM, GIN, AND OTHER POTABLE SPIRITS. DOLAMORE, LIMITED, London, England.
Filed February 7, 1939. Serial No. 415,706. PUBLISHED MARCH 21, 1939. Class 49.

367,890. TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER AND INNER TUBES THEREFOR. THE KELLY-SPRINGFIELD TIRE COMPANY, Cumberland, Md.
Filed February 7, 1939. Serial No. 415,717. PUBLISHED MARCH 21, 1939. Class 35.

367,891. FLY BOXES. SHOE FORM CO., INC., Auburn, N. Y.
Filed February 7, 1939. Serial No. 415,744. PUBLISHED MARCH 21, 1939. Class 22.

367,892. WHISKEY, GIN, RUM, BRANDY, AND ALCOHOLIC CORDIALS. THE WILKEN FAMILY, INCORPORATED, New York, N. Y., Lawrenceburg, Ind., and Aladdin, Pa.
Filed February 7, 1939. Serial No. 415,751. PUBLISHED MARCH 21, 1939. Class 49.

367,893. CUSHIONS, PILLOWS, MATTRESSES, SEATS, ARM RESTS, PADS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 8, 1939. Serial No. 415,774. PUBLISHED MARCH 21, 1939. Class 32.

367,894. METALLIC PLASTIC PACKING. NATIONAL ENGINEERING PRODUCTS, INC., Washington, D. C.
Filed February 10, 1939. Serial No. 415,909. PUBLISHED MARCH 21. 1939. Class 35.

367,895. WHISKEY. JACK DEMPSEY & CO., INC., Baltimore, Md.
Filed February 3, 1939. Serial No. 415,929. PUBLISHED MARCH 21, 1939. Class 49.

367,896. TIRE CASINGS OF RUBBER AND SIMILAR COMPOUNDS. THE ARMSTRONG RUBBER COMPANY, INC., West Haven, Conn.
Filed February 15, 1939. Serial No. 416,026. PUBLISHED MARCH 21, 1939. Class 35.

367,897. MEDICINAL PREPARATIONS RECOMMENDED FOR THE ORAL OR INTRAVENOUS TREATMENT OF CARDIORENAL DISEASES. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed January 26, 1939. Serial No. 415,263. PUBLISHED MARCH 28, 1939. Class 6.

367,898. MEDICINAL PREPARATION FOR THE TREATMENT OF DISEASES OF THE HEART. SANDOZ CHEMICAL WORKS, INC.. New York, N. Y.
Filed January 26, 1939. Serial No. 415,264. PUBLISHED MARCH 28, 1939. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

367,899. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLISON & ROTH, Pittsburgh, Pa. Filed Feb. 25, 1935. Serial No. 361,793.

"LITE-A-FONE"

For Telephone Dial Light Holder.
Claims use since Dec. 3, 1934.

367,900. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE BELBER TRUNK & BAG COMPANY, Woodbury, N. J. Filed Apr. 2, 1937. Serial No. 390,831.

AIRMASTER

For Wardrobe Trunks, Hat and Shoe Trunks, Steamer Trunks, Men's Shirt Trunks, Shoe Trunks, Tray Trunks, Women's Hat Trunks, Portable Wardrobe Trunks, Taxi Trunks, Golf Trunks, Special-Purpose Trunks, Combination Hat and Shoe Trunks; Hand Luggage—Namely, Visiting Cases, Men's Suitcases, Handbags, Fitted Cases, Brief Cases, Overnight Bags, Hat Cases, Wardrobe Suitcases, and Gladstone Bags.
Claims use since Mar. 18, 1937.

367,901. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLAUDE E. POPE, doing business as Guernsey Farm, Oakland, Calif. Filed June 8, 1937. Serial No. 393,818.

Guernsey Farm

For Fresh Milk and Cream, Butter, Eggs, Buttermilk, and Cottage Cheese.
Claims use since June 12, 1933.

367,902. (CLASS 39. CLOTHING.) MORRIS SOBELMAN, doing business as Perfect Garment Company, Baltimore, Md. Filed Dec. 15, 1937. Serial No. 400,883.

BERMUDA

For Women's, Misses', and Children's Clothing—Namely, One and Two Piece Dresses and Outer Clothing Suits.
Claims use since September, 1936.

367,903. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARDINELL CORPORATION, Montclair, N. J. Filed Dec. 28, 1937. Serial No. 401,293.

InK-Out

For Ink Eradicators.
Claims use since Mar. 27, 1924.

367,904. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NATIONAL HYBRID CORN COMPANY, Anamosa, Iowa. Filed Jan. 31, 1938. Serial No. 402,538.



For Seed Corn or Grains.
Claims use since Jan. 1, 1937.

367,905. (CLASS 27. HOROLOGICAL INSTRUMENTS.) GENERAL TIME INSTRUMENTS CORPORATION, New York, N. Y., and La Salle, Ill. Filed Mar. 30, 1938. Serial No. 404,644.

ANDOVER

For Clocks and Watches.
Claims use since Mar. 12, 1938.

367,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEARSON PHARMACAL COMPANY, INC., New York, N. Y. Filed Apr. 15, 1938. Serial No. 405,317.

RUBB

For Preparation Used for Massaging the Gums.
Claims use since Apr. 8, 1938.

367,907. (CLASS 39. CLOTHING.) FLEETWOOD SPORTWEAR CO. INC., New York, N. Y. Filed Apr. 21, 1938. Serial No. 405,554.

RIPPLE TWIST

For the Following Articles of Apparel for Ladies and Children: Street Dresses, Sport Dresses, Evening Wraps, Sport Coats, Dress Coats, Knitted Sweaters, Knitted Suits, and Knitted Dresses.
Claims use since Feb. 1, 1938.

367,908. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLARENCE S. BROWN & COMPANY, INC., New York, N. Y. Filed May 3, 1938. Serial No. 405,952.

Boulder-Tones

For Cotton Fabric.
Claims use since Apr. 15, 1938.

367,909. (CLASS 37. PAPER AND STATIONERY.) W. J. BRADFORD PAPER COMPANY, Chicago, Ill. Filed May 14, 1938. Serial No. 406,324.

Wedg-Loc

For Paper Box Partitions.
Claims use since Apr. 12, 1938.

367,910. (CLASS 47. WINES.) MAISON MOET & CHANDON FONDÉE EN 1743, SOCIÉTÉ ANONYME, Epernay, France. Filed June 10, 1938. Serial No. 407,318.

Lebeau & Cie
Epernay

For Champagne Wines.
Claims use since June 30, 1937.

367,911. (CLASS 47. WINES.) MAISON MOET & CHANDON FONDÉE EN 1743, SOCIÉTÉ ANONYME, Epernay, France. Filed June 10, 1938. Serial No. 407,319.

X.O. LEBEL & Cie
EPERNAY (Marne)

For Champagne Wines.
Claims use since Oct. 7, 1937.

367,912. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed July 6, 1938. Serial No. 408,252.

QUALITY+

For Brushes—Namely, Clothes Brushes, Curtain Brushes, Hair Brushes, Face Brushes, Tooth Brushes, Manicure Brushes, Shaving Brushes, Bath Brushes, Scrubbing Brushes and Dust Pan Brushes, Percolator Brushes, Vegetable Brushes, Jewelry Brushes, Brooms, and Mops.
Claims use since Mar. 15, 1938.

367,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed July 12, 1938. Serial No. 408,436.



For Breakfast Cereals.
Claims use since Oct. 7, 1937.

367,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKARD-BAMBERGER & CO., INC., Hackensack, N. J. Filed Aug. 1, 1938. Serial No. 409,135.

Evercrisp

For Sweet Relish, Sour Chow Chow, Sweet Chow Chow, Sweet Crisp Slices, Sour Mixed Pickles, Hot Mixed Pickles, Hot Cherry Peppers, Dill Pickles, Sweet Pickles, Sour Onions, Sweet Onions, Sweet Mixed Pickles, Sweet Burr Gherkins, Sweet Midgets, Barbecue Relish, Sweet Pantry Mixed, and Sweet Watermelon.
Claims use since January, 1938.

367,915. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NUTRO FOOD PRODUCTS COMPANY, Newark, N. J. Filed Oct. 3, 1938. Serial No. 411,239.



For Chocolate Flavored Malt Preparation To Be Used in Making a Food Beverage.
Claims use since Nov. 5, 1936.

367,916. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SEILER COAL CO. INC., New York, N. Y. Filed Oct. 5, 1938. Serial No. 411,314.



For Anthracite Coal.
Claims use since Apr. 16, 1938.

367,917. (CLASS 39. CLOTHING.) GEORGE MARQUETTE, Louisville, Ky. Filed Jan. 13, 1939. Serial No. 414,789.



For Hosiery.
Claims use since Sept. 15, 1936.

367,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER & HOLLIS, INC., Boston, Mass. Filed Jan. 24, 1939. Serial No. 415,175.

GUARANTEE

For Chocolates.
Claims use since January, 1933.

367,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER & HOLLIS, INC., doing business as Wendy Lee's Kitchen, Boston, Mass. Filed Jan. 24, 1939. Serial No. 415,180.

Wendy Lee's

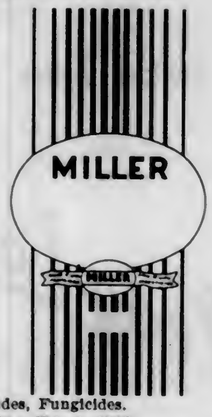
For Chocolates.
Claims use since October, 1937.

367,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR P. LEWIS & SONS, INC., doing business as Alyce Chase, Malden, Mass. Filed Mar. 15, 1939. Serial No. 417,094.

Alyce Chase

For Candy.
Claims use since 1931.

367,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILLER CHEMICAL & FERTILIZER CORP., Baltimore, Md. Filed Mar. 18, 1939. Serial No. 417,225.



For Insecticides, Fungicides.
Claims use since Feb. 1, 1938.

367,922. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MODERN ENGINEERING COMPANY, INC., St. Louis, Mo. Filed Mar. 18, 1939. Serial No. 417,228.

SAFE-T-CHEK

For Pressure Regulator Valves.
Claims use since June, 1930.

TRADE-MARK REGISTRATIONS RENEWED

16,825. **WINDSOR.** WALL-FINISHES, PLASTIC COMPOUNDS, AND CEMENT. Registered July 16, 1889. J. B. KING & Co., New York, N. Y. Re-renewed July 16, 1939, to United States Gypsum Company, Chicago, Ill., a corporation of Illinois, successor.

125,203. **AR-KI-TECK.** VARNISHES. Registered April 22, 1919. JESSE B. CORNISH, Chicago, Ill. Renewed April 22, 1939.

125,292. **HOOD.** RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, AND RUBBER-SOLED CANVAS SHOES. Registered May 6, 1919. HOOD RUBBER COMPANY, Watertown, Mass. Renewed May 6, 1939, to Hood Rubber Company, Inc., Wilmington, Del., a corporation of Delaware, assignee.

125,431. **GENERAL.** CIGARS. Registered May 20, 1919. GENERAL CIGAR CO., INC., New York, N. Y., a corporation of New York. Renewed May 20, 1939.

125,500. **PINE TREE.** MILKING-MACHINES. Registered May 20, 1919. PINE TREE MILKING MACHINE Co. Renewed May 20, 1939, to Babson Bros., Chicago, Ill., a firm, assignee by mesne assignments.

125,627. **LEVOLIER.** ELECTRIC-LAMP SOCKETS. Registered June 3, 1919. DESPARD & GORDON COMPANY, Chicago, Ill. Renewed June 3, 1939, to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana, assignee.

125,713. **GENERAL ARTHUR.** CIGARS. Registered June 3, 1919. UNITED CIGAR MANUFACTURERS COMPANY. Renewed June 3, 1939, to General Cigar Co., Inc., New York, N. Y., a corporation of New York, by change of name.

125,775. **MONARCH.** ROPE, CORD, TWINE, ALL MANUFACTURED FROM VEGETABLE FIBER. Registered June 17, 1919. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Renewed June 17, 1939, to American Manufacturing Company, Brooklyn, N. Y., a corporation of Massachusetts.

125,801. **D. W. D.** WHISKY. Registered June 17, 1919. THE DUBLIN DISTILLERS COMPANY, LTD., Dublin, Ireland, a limited liability company of the United Kingdom of Great Britain and Ireland, now of Eire. Renewed June 17, 1939.

125,907. **SILFOIL.** PAPER COATED WITH A SILVER-LIKE COATING. Registered July 8, 1919. NASHUA GUMMED AND COATED PAPER COMPANY, Nashua, N. H., a corporation of Massachusetts. Renewed July 8, 1939.

126,120. **DAMP TITE.** CANS, BOXES, AND CARTONS OF PAPER OR FIBER. Registered July 29, 1919. AMERICAN CAN COMPANY, New York, N. Y., a corporation of New Jersey. Renewed July 29, 1939.

126,161. **LADDIES.** CIGARS, LITTLE CIGARS, CHEROOTS, AND CIGARETTES. Registered July 29, 1919. GENERAL CIGAR CO., INC., New York, N. Y., a corporation of New York. Renewed July 29, 1939.

126,379. **TWIXWOL.** CERTAIN NAMED CLOTHING. Registered August 26, 1919. THE ASHFORD UNDERWEAR CO., LIMITED, Ashford, England, a corporation of Great Britain. Renewed August 26, 1939.

126,462. **LILAC ANTIQUE.** TOILET POWDERS. Registered August 26, 1919. THE PALMOLIVE COMPANY, Milwaukee, Wis. Renewed August 26, 1939, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

126,506. **STEELASOTE.** CERTAIN NAMED BUILDING AND STRUCTURAL MATERIAL. Registered September 16, 1919. THE AGASOTE MILLBOARD CO., Ewing Township, Mercer County, N. J. Renewed September 16, 1939, to Homasote Company, Inc., Trenton, Ewing Township, N. J., a corporation of New Jersey, by change of name.

126,580. **SPERRY.** ELECTRIC SEARCH-LIGHTS, ARC LAMP LIGHTS, AND ELECTRIC FOOD-LIGHT PROJECTORS. Registered September 16, 1919. THE SPERRY GYROSCOPE COMPANY. Renewed September 16, 1939, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

126,627. **AZO Z Z.** ZINC OXIDS FOR USE AS PAINT-PIGMENTS. Registered September 30, 1919. AMERICAN ZINC, LEAD & SMELTING CO., Boston, Mass., and St. Louis, Mo. Renewed September 30, 1939, to American Zinc Sales Company, St. Louis, Mo., a corporation of Maine, assignee.

126,628. **AZO Z.** ZINC OXIDS FOR USE AS PAINT-PIGMENTS. Registered September 30, 1919. AMERICAN ZINC, LEAD & SMELTING CO., Boston, Mass., and St. Louis, Mo. Renewed September 30, 1939, to American Zinc Sales Company, St. Louis, Mo., a corporation of Maine, assignee.

126,669. **PHENIAL.** AN OINTMENT FOR HEALING CUTS, BURNS, CHAPS, AND BRUISES. Registered September 30, 1919. FRED. W. DUENCKEL, St. Louis, Mo. Renewed September 30, 1939.

126,673. **ATLANTIC.** WRITING, PRINTING, AND WRAPPING PAPER AND CARDBOARD. Registered September 30, 1919. EASTERN MANUFACTURING COMPANY. Renewed September 30, 1939, to Eastern Manufacturing Company, Bangor, Maine, a corporation of Maine, assignee by mesne assignments.

126,678. **COVO.** A VEGETABLE-OIL PRODUCT CONTAINING COTTON-SEED OIL AND PEANUT-OIL FOR SALADS AND COOKING. Registered September 30, 1919. THE N. K. FAIRBANK COMPANY, Union Township, near Guttenberg, N. J., and Chicago, Ill. Renewed September 30, 1939, to Lever Brothers Company, Cambridge, Mass., a corporation of Maine, assignee.

126,687. **FIBEROPE.** MAILING-ENVELOPS. Registered September 30, 1919. GOPHER ENVELOPE COMPANY. Renewed September 30, 1939, to Berkowitz Envelope Company of Minnesota, Minneapolis, Minn., a corporation of South Dakota, successor.

126,706. **CELLUCOTTON.** CERTAIN NAMED SURGICAL DRESSINGS. Registered September 30, 1919. KIMBERLY-CLARK CO., Neenah, Wis. Renewed September 30, 1939, to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

126,748. **VARSITY CLUB.** DENTIFRICE AND TALCUM POWDER. Registered September 30, 1919. PENINSULAR CHEMICAL CO. Renewed September 30, 1939, to The Penslar Company, Detroit, Mich., a corporation of Michigan, by change of name.

126,821. **AZO ZZZ.** ZINC OXIDS FOR USE AS PAINT-PIGMENTS. Registered October 7, 1919. AMERICAN ZINC, LEAD & SMELTING CO., Boston, Mass., and St. Louis, Mo. Renewed October 7, 1939, to American Zinc Sales Company, St. Louis, Mo., a corporation of Maine, assignee.

126,834. **CROMPTON.** CORDUROYS. Registered October 7, 1919. CROMPTON COMPANY. Renewed October 7, 1939, to Crompton Company, Crompton, R. I., a corporation of Delaware, assignee.

126,908. **A BULL DOG.** PRINTS, DRILLS, AND DENIMS IN THE PIECE. Registered October 7, 1919. J. L. STIFEL & SONS. Renewed October 7, 1939, to J. L. Stifel & Sons, Inc., Wheeling, W. Va., a corporation of West Virginia, assignee.

126,932. **D & F.** GOLD FINGER-RINGS. Registered October 14, 1919. DATTELBAUM & FRIEDMAN, New York, N. Y., a firm. Renewed October 14, 1939.

126,952. **K & L.** A MEDICINAL PREPARATION FOR THE RELIEF OF DISEASES AND DISORDERS OF THE KIDNEYS AND LIVER. Registered October 14, 1919. S. PFEIFFER MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 14, 1939.

126,958. **REX.** FILES AND RASPS. Registered October 14, 1919. THE REX FILE COMPANY, Newcomerstown, Ohio. Renewed October 14, 1939, to Heller Brothers Company, Newark, N. J., a corporation of New Jersey, assignee.

127,011. **ARROW.** COLLARS AND CUFFS. Registered October 21, 1919. CLUETT, PEABODY & Co., INC., Troy, N. Y., a corporation of New York. Renewed October 21, 1939.

127,020. **TACEFINE.** SAUSAGES. Registered October 21, 1919. THE DANAHY PACKING COMPANY, Buffalo, N. Y., a corporation of New York. Renewed October 21, 1939.

127,044. **VULCO-CORD.** BELTS COMPOSED OF LAYERS OF RUBBERIZED WOVEN FABRIC, ADAPTED FOR CERTAIN NAMED PURPOSES. Registered October 21, 1919. THE GATES RUBBER COMPANY, Denver, Colo., a corporation of Colorado. Renewed October 21, 1939.

127,084. **ROCKBESTOS.** INSULATED ELECTRICAL CONDUCTORS. Registered October 21, 1919. MARLIN-ROCKWELL CORPORATION, New York, N. Y. Renewed October 21, 1939, to Rockbestos Products Corporation, New Haven, Conn., a corporation of Massachusetts, assignee by mesne assignments.

127,088. **A CROSS SYMBOL.** LENSES FOR SPECTACLES, BINOCULARS, TELESCOPES, MICROSCOPES, PHOTOGRAPHIC APPARATUS, MAGIC LANTERNS, AND CINEMATOGRAPHIC APPARATUS. Registered October 21, 1919. SADAKICHI MATSUNAMI, Kishiwada, Japan. Renewed October 21, 1939.

127,094. **A HEART SYMBOL.** CERTAIN NAMED FOODS. Registered October 21, 1919. JOHN MORRELL & Co., Ottumwa, Iowa, a corporation of Maine. Renewed October 21, 1939.

127,140. **44.** AN EDIBLE OIL COMPOSED OF FATTY, OLEAGINOUS, OR UNCTUOUS FOOD SUBSTANCES. Registered October 21, 1919. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Renewed October 21, 1939, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey.

127,141. **77.** AN EDIBLE OIL COMPOSED OF FATTY, OLEAGINOUS, OR UNCTUOUS FOOD SUBSTANCES. Registered October 21, 1919. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Renewed October 21, 1939, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey.

127,142. **88.** AN EDIBLE OIL COMPOSED OF FATTY, OLEAGINOUS, OR UNCTUOUS FOOD SUBSTANCES. Registered October 21, 1919. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Renewed October 21, 1939, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey.

127,143. **SNOWDRIFT.** A COTTON-SEED-OIL SHORTENING COMPOUND COMPOSED OF FATTY, OLEAGINOUS, OR UNCTUOUS FOOD SUBSTANCES. Registered October 21, 1919. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Renewed October 21, 1939, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey.

127,204. **22.** AN EDIBLE OIL COMPOSED OF FATTY, OLEAGINOUS, OR UNCTUOUS FOOD SUBSTANCES. Registered October 21, 1919. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Renewed October 21, 1939, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey.

LABELS

REGISTERED MAY 30, 1939

53,022.—*Title:* AMICK'S IMP TAGO. For an Ointment for the Treatment of Impetigo. WALTER AMICK, Seattle, Wash. Published April 14, 1939.

53,023.—*Title:* BALLANTINE'S. For Liqueur Blended Scotch Whisky. GEO. BALLANTINE & SON LTD., New York, N. Y. Published April 26, 1939.

53,024.—*Title:* BEECH-NUT FRUITED OAT COOKIES. For Fruited Oat Cookies. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published March 8, 1939.

53,025.—*Title:* BEECH-NUT BRAND SLICED BACON. For Sliced Bacon. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 26, 1939.

53,026.—*Title:* RUBY. For Sloe Gin. PHILIP BLUM & COMPANY, INC., Chicago, Ill. Published March 17, 1939.

53,027.—*Title:* MISTLETOE. For Distilled Dry Gin. PHILIP BLUM & COMPANY, INC., Chicago, Ill. Published March 15, 1939.

53,028.—*Title:* SNOW-WHITE. For Washing Fluid. LEO BRODY, doing business as Lebro Products, Brooklyn, N. Y. Published April 18, 1939.

53,029.—*Title:* TWIN SISTERS EYE PIK-UPS. For Saturated Masks for Tired Eyes. CLARK-MILLNER CO., Chicago, Ill. Published April 8, 1939.

53,030.—*Title:* ROYALINE. For Petroleum Jelly. CLYDE COLLINS, INC., Memphis, Tenn. Published January 16, 1939.

53,031.—*Title:* PRONTO. For Italian Style Ravioli with Mushroom Sauce. THE EMM-AN-CEE CO., Chicago, Ill. Published March 24, 1939.

53,032.—*Title:* RICHTEST. For Canned Grapefruit Juice. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla. Published March 19, 1939.

53,033.—*Title:* SOFTASILK. For Cake Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published November 12, 1938.

53,034.—*Title:* GILBERT AMERICAN FLYER SCALE TRAINS AND EQUIPMENT. For Scale Trains and Equipment. THE A. C. GILBERT COMPANY, New Haven, Conn. Published April 10, 1939.

53,035.—*Title:* GOLDEN FLAKE. For Buttermilk. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Published April 10, 1926.

53,036.—*Title:* MELLOW MILK. For Milk. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Published June 15, 1934.

53,037.—*Title:* MEL-O-RICH. For Homogenized Milk. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Published Jan. 10, 1936.

53,038.—*Title:* WHITEHOUSE. For Ice Cream. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Published February 1, 1923.

53,039.—*Title:* IRIS. For Bird Seed. HAAS, BARUCH & Co., Los Angeles, Calif. Published February 25, 1939.

53,040.—*Title:* SUPER ORTHO-TONIC. For Radio-Phonographs. KIMON HADJOSON, doing business as Orthotonic Radio Co., New York, N. Y. Published April 1, 1939.

53,041.—*Title:* TRI-THE-TASTE 3-T BRAND. For Creamery Butter. HAHN'S CREAMERIES, INC., New York, N. Y. Published January 25, 1939.

53,042.—*Title:* JOHNSON'S LIQUID WAX. For Liquid Wax. S. C. JOHNSON & SON, INC., Racine, Wis. Published December 10, 1938.

53,043.—*Title:* FREEDOM. For Metal Polish. CHARLES LEBOWITZ, doing business as Charles Chemical Company, Scranton, Pa. Published April 12, 1939.

53,044.—*Title:* SPEED. For Metal Polish. CHARLES LEBOWITZ, doing business as Scranton Chemical Company, Scranton, Pa. Published April 12, 1939.

53,045.—*Title:* CAMEO. For Hosiery. MAY HOSIERY MILLS, INC., Burlington, N. C. Published January 15, 1938.

53,046.—*Title:* MEAD'S DEXTRI-MALTOSE NO. 1. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch, with Sodium Chloride 2%. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 1, 1939.

53,047.—*Title:* MEAD'S DEXTRI-MALTOSE NO. 2. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 1, 1939.

53,048.—*Title:* MEAD'S DEXTRI-MALTOSE NO. 3. For a Product Consisting of Maltose and Dextrins, Resulting from the Enzymic Action of Barley Malt on Cereal Starch, with Potassium 3%. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 1, 1939.

53,049.—*Title:* MEAD'S DEXTRI-MALTOSE WITH EXTRACTS OF WHEAT EMBRYO AND YEAST. For Specially Prepared Product Containing Maltose and Dextrins, with Extracts of Wheat Embryo and Yeast. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 1, 1939.

53,050.—*Title:* PABLUM. For Palatable Mixed Cereal Food, Vitamin and Mineral Enriched. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 1, 1939.

53,051.—*Title:* BETTE LEE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published July 21, 1937.

53,052.—*Title:* CLAUDETTE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published February 9, 1939.

53,053.—*Title:* FASHION DELUXE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published December 14, 1938.

53,054.—*Title:* LINDA GIRL. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published February 7, 1939.

53,055.—*Title:* SOLIDKOR (SLAB DOOR). For Slab Doors. PACIFIC WOOD PRODUCTS CORPORATION, Los Angeles, Calif. Published April 4, 1939.

53,056.—*Title:* VARSITY. For a Polish. THE PEP BOYS, MANNY, MOE & JACK, doing business as Varsity Products Company, Philadelphia, Pa. Published February 1, 1937.

53,057.—*Title:* USE OLD ENGLISH. For Lawn Seed. THE PHILADELPHIA SEED CO., INC., Philadelphia, Pa. Published February 7, 1939.

53,058.—*Title:* YOUR PRESCRIPTION. For Individualized Medicine. PICTORIAL PAPER PACKAGE CORPORATION, Aurora, Ill. Published February 15, 1939.

53,059.—*Title:* WISCONSIN RYE BREAD. For Rye Bread. ADAM PORT, doing business as Port's Bakery, Horicon, Wis. Published February 9, 1939.

53,060.—*Title:* POWELL'S GARDEN WONDER BUG DUST. For Bug Dust. W. R. POWELL, Newark, Ohio. Published April 20, 1939.

53,061.—*Title:* RED TWINS. For Canned Tomatoes. ROACH-INDIANA CORPORATION, Gwynneville, Ind. Published March 3, 1939.

53,062.—*Title:* FOOT COMFORT WATERPROOF CALLOUS PADS. For Callous Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,063.—*Title:* FOOT COMFORT SOFT FELT CHIROPODIST BUNION PADS. For Bunion Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,064.—*Title:* FOOT COMFORT WATERPROOF CORN PADS. For Corn Pads. THE SCHOLL MFG. CO., INC., Chicago, Ill. Published October 29, 1936.

53,065.—*Title:* FOOT COMFORT CORN PLASTERS. For Corn Plasters. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,066.—*Title:* FOOT COMFORT METATARSAL PAD AND ARCH SUPPORT. For Metatarsal Pad and Arch Support. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,067.—*Title:* FOOT COMFORT BUNION PADS MERCUROCHROME (H. W. & D.) MEDICATED. For Bunion Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,068.—*Title:* FOOT COMFORT FELT CORN PADS. For Corn Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,069.—*Title:* FOOT COMFORT FELT BUNION PADS. For Bunion Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,070.—*Title:* FOOT COMFORT ADHESIVE FELT CORN PADS. For Corn Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,071.—*Title:* FOOT COMFORT WATERPROOF BUNION PADS. For Bunion Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,072.—*Title:* FOOT COMFORT KUSHIN FELT MEDICATED ADHESIVE. For Medicated Adhesive. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,073.—*Title:* FOOT COMFORT BUNION PADS. For Bunion Pads. THE SCHOLL MFG. CO., INC., Chicago, Ill. Published October 29, 1936.

53,074.—*Title:* FOOT COMFORT PEDO HAMMER TOE PADS. For Hammer Toe Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,075.—*Title:* FOOT COMFORT SOFT FELT CHIROPODIST CALLOUS PADS. For Callous Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,076.—*Title:* FOOT COMFORT CORN SALVE. For Corn Salve. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,077.—*Title:* FOOT COMFORT MEDICATED MOLE-TEX CORN PADS. For Corn Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,078.—*Title:* FOOT COMFORT CALLOUS PADS. For Callous Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,079.—*Title:* FOOT COMFORT SOFT CORN PADS. For Soft Corn Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,080.—*Title:* FOOT COMFORT WATERPROOF ADHESIVE READYMADE BANDAGES. For Bandages. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,081.—*Title:* FOOT COMFORT SOFT FELT CHIROPODIST CORN PADS. For Corn Pads. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,082.—*Title:* FOOT COMFORT BALM. For Foot Balm. THE SCHOLL MFG. CO. INC., Chicago, Ill. Published October 29, 1936.

53,083.—*Title:* VITA VIM. For Wheat Products. ANDREW JACKSON THOMAS, Stillwater, Okla. Published March 21, 1939.

53,084.—*Title:* CHEWING GUM. For Chewing Gum. TOPPS CHEWING GUM INC., Brooklyn, N. Y. Published April 19, 1939.

53,085.—*Title:* HAIR TONIC AND HAND LOTION. For a Hair Tonic and Hand Lotion. ANTHONY TORO, doing business as Tropic Medical Products Company, Brooklyn, N. Y. Published November 10, 1938.

53,086.—*Title:* VELDOWN 12 NAPKINS. For Napkins. VELDOWN COMPANY, INC., New York, N. Y. Published May 1, 1939.

53,087.—*Title:* BUTTER BLOCK. For Block Butter. WAGNER & WURTZEL COMPANY, Perth Amboy, N. J. Published March 17, 1938.

53,088.—*Title:* HYDROLITE. For Casein Wall Paint. THE WHITE COMPANY, Baltimore, Md. Published April 14, 1939.

PRINTS

REGISTERED MAY 30, 1939

17,400.—*Title:* COOKS IN ½ THE TIME. For Ham. LOUIS GRAZIANO, doing business as General Sales Co., Rochester, N. Y. Published March 15, 1939.

17,401.—*Title:* HAMILTON—THE GRADUATES CHOICE. For Watches. HAMILTON WATCH COMPANY, Lancaster, Pa. Published March 20, 1939.

17,402.—*Title:* GOOD MEASURE. For Ale and Beer. HAMPDEN BREWING COMPANY, Willimansett, Mass. Published April 15, 1939.

17,403.—*Title:* GOOD MEASURE. For Ale and Beer. HAMPDEN BREWING COMPANY, Willimansett, Mass. Published April 15, 1939.

17,404.—*Title:* HERD'S SYSTEM. For Rugs. JAMES E. HERD, Knoxville, Tenn. Published February 28, 1939.

17,405.—*Title:* HERD'S SYSTEM. For Blankets. JAMES E. HERD, Knoxville, Tenn. Published February 28, 1939.

17,406.—*Title:* GUM-BAL-LET. For Dental Instrument. FRANK JAMES HERMAN, doing business as Bear Crest Company, Los Angeles, Calif. Published February 22, 1939.

17,407.—*Title:* BLUE RIDGE MOUNTAIN HAND WOVEN CRAVATS. For Cravats. HIPSH, INC., Kansas City, Mo. Published February 16, 1938.

17,408.—*Title:* WEAR CUSHONET SHOES AND WALK MILES WITH A SMILE. For Shoes. CHARLES MORALI, Forest Hills, N. Y. Published April 5, 1939.

17,409.—*Title:* INFECTION GIVES NO WARNING. For Surgical Dressings. PARKE, DAVIS & COMPANY, Detroit, Mich. Published April 15, 1939.

17,410.—*Title:* TELL US WHY THE PARKER IS AMERICA'S MOST POPULAR GIFT-PEN. For Fountain Pens, Mechanical Pencils, and Ink. THE PARKER PEN COMPANY, Janesville, Wis. Published April 29, 1939.

17,411.—*Title:* ARE YOUR EYES ASKING FOR HELP? For Lenses. SOFT-LITE LENS CO., INC., New York, N. Y. Published April 24, 1939.

17,412.—*Title:* SOVEREIGN DUAL MILEAGE NOW IN SEALED CANS. For Motor Oil. SOVEREIGN OIL COMPANY, not inc., Chicago, Ill. Published November 22, 1938.

17,413.—*Title:* STOP FOR TASTY-PIE. For Pie. TASTY BAKING COMPANY, Philadelphia, Pa. Published April 17, 1939.

REISSUES

MAY 30, 1939

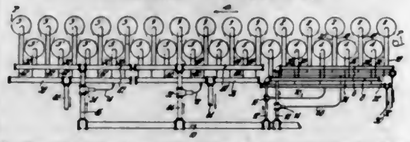
21,098

PAPER MANUFACTURING

George S. Carroll, Bennington, N. H.

Original No. 2,064,647, dated December 15, 1936, Serial No. 58,724, January 11, 1936. Application for reissue July 15, 1938, Serial No. 219,469

7 Claims. (Cl. 34—24)



5. In the drying of a running matted fibrous web the opposite sides of which have different heat transfer characteristics, the method which comprises supplying heat to both sides of the web to take moisture from both sides thereof and supplying heat to the one side of the said web at a controlled temperature different from the controlled temperature at which heat is supplied to the other side of the said web to produce the desired relative drying of the two sides to obtain a sheet substantially free from tendency to curl.

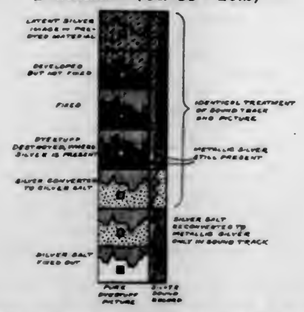
21,099

PROCESS FOR THE PRODUCTION OF A COLORED SOUND FILM

Béla Gaspar, Brussels, Belgium

Original No. 2,025,658, dated December 24, 1935, Serial No. 657,925, February 21, 1933. Application for reissue March 28, 1939, Serial No. 264,665. In Germany February 19, 1931

1 Claim. (Cl. 88—16.2)



The method of producing color kinematographic sound films wherein the picture is a color picture and wherein the sound record is a metallic silver image, which consists in forming in a pre-dyed photographic light-sensitive silver halide emulsion layer a developed and fixed silver image constituting a sound record and a silver image constituting a picture record, treating said records with an agent which locally destroys the dyestuff to convert each of the said records into a color image, converting the metallic silver in the visual and sound records into silver salt, treating the sound record only with a reducing substance to reconvert the silver salt into metallic silver, and thereafter dissolving the silver salt from the visual record portion by treating the film with a fixing bath.

21,100

PROCESS FOR THE PRODUCTION OF ELECTRICITY BY MEANS OF A FUEL CELL

Herbert H. Greger, Washington, D. C., assignor to a board of trustees composed of C. F. Hirshfeld, Detroit, Mich., F. G. Cottrell, Washington, D. C., and R. J. Gaudy, Chicago, Ill.

No Drawing. Original No. 1,963,550, dated June 19, 1934, Serial No. 646,940, December 9, 1932. Application for reissue May 17, 1938, Serial No. 208,493

20 Claims. (Cl. 136—86)

7. The process of generating electricity which comprises oxidizing a fuel gas at the gas electrode of a gas cell by means of a carbonate contained in an electrolyte comprising a fused mixture of sodium carbonate, potassium carbonate, barium carbonate, sodium chloride, potassium chloride, barium chloride, sodium fluoride, and potassium fluoride, the melting point of the fused mixture being below 700° C., and simultaneously reducing oxygen gas by reaction with positively charged ions at the oxygen electrode of the said gas cell.

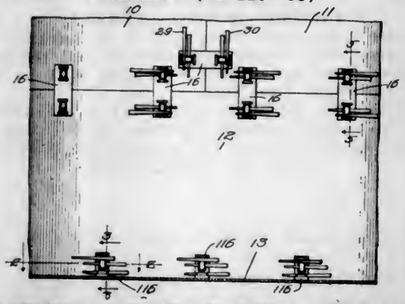
21,101

WELDING APPARATUS

Clarence W. Hines, Chicago, Ill., assignor to Chicago Bridge & Iron Company, Chicago, Ill., a corporation of Illinois

Original No. 2,101,856, dated December 14, 1937, Serial No. 93,699, July 31, 1936. Application for reissue February 2, 1939, Serial No. 254,329

5 Claims. (Cl. 113—99)



5. Welding apparatus, including: a plate apertured to receive an apertured holding lug on a member to be welded to another member; a wedge adapted to be driven through said aperture in said holding lug to draw said member against said plate; a shoulder on said plate adjacent said aperture; a wedge adapted to be driven between said holding lug and said shoulder to shift said member laterally with respect to said plate when said member is drawn against said plate; and means for attaching said plate to said other member.

21,102

METHOD AND APPARATUS FOR CONTINUOUS EXPLORATION OF BORE HOLES

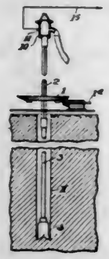
John Jay Jakosky, Los Angeles, Calif.

Original No. 2,150,169, dated March 14, 1939, Serial No. 129,839, March 9, 1937. Application for reissue April 5, 1939, Serial No. 266,232

20 Claims. (Cl. 175—182)

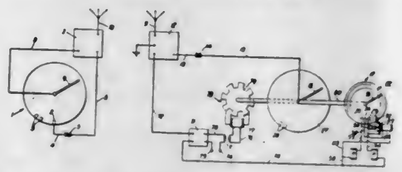
1. A method for determining variations in an

electrical property of the strata at different depths traversed by a bore hole during the process of drilling said bore hole, which comprises: taking a measurement of an electrical variable in an electrical circuit comprising a drilling apparatus extending within a bore hole and serving as an electrode, another electrode connected to the earth at a position removed from said bore hole, and the portion of the earth included electrically between said electrodes; and repeating such meas-



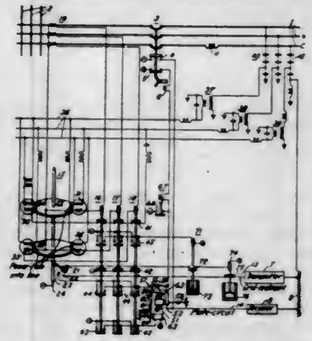
urement as said drilling apparatus is extended to different depths, while maintaining said other electrode substantially at a fixed position, said drilling apparatus being exposed to electrical contact with the wall of said bore hole throughout substantially its entire length, and said other electrode being sufficiently distant from the bore hole so that the measurements obtained are influenced to an important degree by variations in an electrical property of the formation adjacent the lower end of the drilling apparatus.

21,103
COMMUNICATION SYSTEM
Walter S. Lemmon, New York, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original No. 2,000,765, dated May 7, 1935, Serial No. 711,313, February 15, 1934. Application for reissue January 14, 1937, Serial No. 120,620
13 Claims. (Cl. 178—69.5)



1. In a system for conveying intelligence by electrical impulses, in combination, a sender comprising an electrical impulse controller operating at uniform speed and a receiver comprising a signal impulse assorting distributor adapted to operate at substantially the same speed, said system including means in the sender for transmitting an electrical distributor-operating impulse at a predetermined point in each cycle and electrical signal impulses at other times, means in the receiver responsive to the reception of the operating impulses to rotate the distributor at the same speed as the sending controller, and in phase correspondence therewith, and said distributor including means effective at phase correspondence for discriminating between and assorting the electrical impulses actuating and the several electrical signalling impulses.

21,104
CARRIER RELAYING SYSTEM WITH LATCHED RECEIVER
Maurice E. Reagan, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original No. 2,144,508, dated January 17, 1939, Serial No. 77,531, May 2, 1936. Application for reissue March 31, 1939, Serial No. 265,231
43 Claims. (Cl. 175—294)

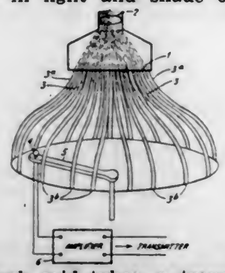


1. Protective relaying equipment for effecting a control of line-sectionalizing circuit-interrupter means at one end of a transmission line-section, comprising means for providing a communicating channel between the two ends of the protected line-section, electric-current means at the other end of the line-section for transmitting a signal through said communicating channel, means at said other end responsive selectively to faults accompanied by current-flow direction out of the protected line-section for transmitting a signal thereof through said communicating channel to the first-mentioned end of the protected line-section, and, at the first-mentioned end of the protected line-section, auxiliary relay-means having means for biasing it towards a non-actuated position and mechanical-latch means for latching it in an actuated position, means responsive at least to faults within the protected line-section for causing said mechanically latching means to move the unlatching position, means responsive to the receipt of the aforesaid signal transmitted through the communicating channel from the other end of the protected line-section for retaining said auxiliary relay-means in its actuated position, and means for utilizing a non-actuated position of said auxiliary relay-means in the control of the circuit-interrupter means.

21,105
PICTURE TELEGRAPHY
Henry Joseph Round, Westfield, Muswell Hill, London, England, assignor to Radio Corporation of America, a corporation of Delaware
Original No. 1,759,594, dated May 20, 1930, Serial No. 190,467, May 11, 1927. Application for reissue April 29, 1932, Serial No. 608,324. In Great Britain May 21, 1926
9 Claims. (Cl. 178—7.1)

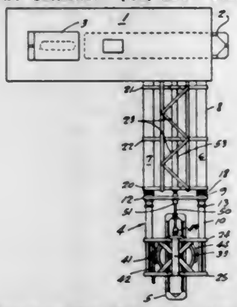
1. A picture telegraphy system comprising a picture surface, a plurality of light tubes massed at one end behind said picture surface, said tubes being arranged at the other end to form a picture cipher, a light source, means for projecting light from said source upon said picture surface and through said light tubes in accordance with the intensity of light and shade in said pic-

ture surface, light sensitive means associated with the end of each of said tubes forming the said picture cipher for responding to variation in intensity in light and shade of picture as



passed through said tubes, a transmitting system and means provided by said light sensitive means for influencing said transmitter in accordance with said varying intensity in light and shade in said picture.

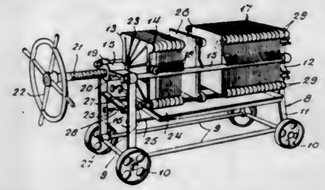
21,106
VARIABLE TREAD VEHICLE
Lawrence B. Schauer, Huntington Park, Calif., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Original No. 2,090,235, dated August 17, 1937, Serial No. 697,620, November 11, 1933. Application for reissue December 13, 1938, Serial No. 245,482
10 Claims. (Cl. 180—9.1)



1. In a device of the character described, a plurality of telescoping pipes extending laterally from a vehicle, a structure supported by the aid of said pipes, a supporting crawler adjacent the free end of the series of pipes, means for driving said crawler, said means including an extensible shaft deriving power from the vehicle, and means for varying the angular direction of the crawler traction, said driving means also including a device permitting the driving of the crawler at any of its angular positions.

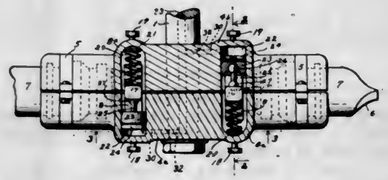
21,107
SHEET FILTER
Georg Heinrich Seitz, Bad Kreuznach, Rhineland, Germany, assignor to Seitz-Werke, G. m. b. H., Bad Kreuznach, Rhineland, Germany
Original No. 2,076,049, dated April 6, 1937, Serial No. 110,801, November 14, 1936. Application for reissue July 22, 1937, Serial No. 155,147. In Germany March 22, 1932
3 Claims. (Cl. 210—188)

1. A filter, comprising in combination a plurality of vertical filter frames situated side by side, each filter frame comprising two projections situated on opposite sides of the frame and at least two sleeves, a plurality of self-sustaining cardboard-like filter sheets, each filter sheet being situated between two adjacent filter frames, a main frame having at least two bars extending transversely to said filter frames on opposite sides thereof, and means situated at the bottom



of said filter frames and contacting the bottom edges of the filter sheets interposed between the filter frames to support said filter sheets; said projections being slidably mounted upon said bars, whereby said filter frames are carried by said bars, said sleeves being adapted to contact each other to form passages for the circulating liquid, and means for pressing the filter frames one against the other, whereby the filter sheets are clamped by the filter frames.

21,108
VARIABLE PITCH PROPELLER MECHANISM
John Rapp Zipay, Pittsburgh, Pa.
Original No. 1,998,152, dated April 16, 1935, Serial No. 624,743, July 26, 1932. Application for reissue October 12, 1936, Serial No. 105,350
5 Claims. (Cl. 170—163)



1. In variable speed propeller mechanism for aeroplane and the like uses, the combination with a motor provided with an oil supply under pressure which varies with the speed of the motor, a shaft driven by said motor and provided with a longitudinally disposed oil passage in communication with the oil supply, a hub fixed on and disposed transversely to said shaft, the ends of said hub being provided with bores, propeller blades having stems journalled in said bores and arranged for rotation relative to the hub to vary the pitch of said blades, a cylinder in said hub adjacent each of said bores and communicating with the latter, the outer ends of each of said cylinders being connected by a passage in the hub communicating with the shaft passage, pistons working in said cylinders and provided with piston rods, a radially disposed finger carried by each of said stems and engaged by the piston rod of the corresponding piston, the arrangement being such that as the oil pressure increases with the increasing speed of the motor the stems are rotated to increase the pitch of the blades, and means for automatically decreasing the blade pitch as the oil pressure decreases.

PATENTS

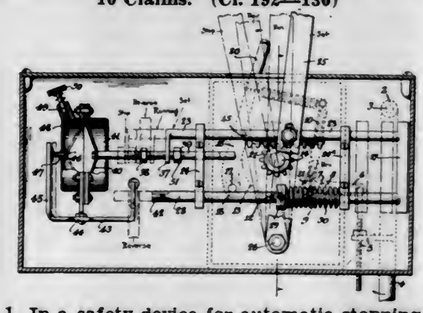
GRANTED MAY 30, 1939

2,159,959
GARMENT BAG
George K. Ballentine, New York, N. Y.
Application May 27, 1937, Serial No. 145,008
10 Claims. (Cl. 206—7)



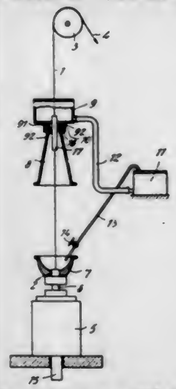
10. A receptacle comprising an upper frame member and an elongated cloth bag mounted over said member, said bag having a longitudinal opening in one side thereof forming a pair of cooperating flaps, a clip mounted on and embracing one end of said frame member, said clip having a projecting portion, a pair of short blades pivoted on said projecting portion for frictional contact with said projecting portion and with each other, said blades being secured to said flaps and operable to maintain the latter in open or overlapping condition.

2,159,960
SAFETY DEVICE FOR AUTOMATIC STOPPING OF VARIOUS ELECTRICALLY DRIVEN MACHINES
Josie C. Barefoot, Charlotte, N. C.
Application June 25, 1938, Serial No. 215,907
10 Claims. (Cl. 192—130)



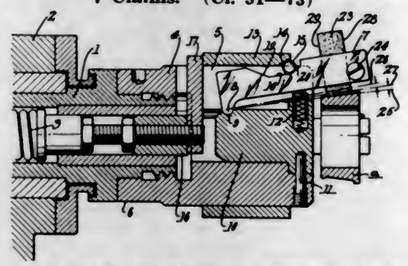
1. In a safety device for automatic stopping of various electrically driven machines, the combination with a machine of the type described, of an electric switch adapted to set the mechanism of the machine in operation, a rotary shaft and drum carrying said switch, an annular flange on said shaft, said flange having spaced recessed portions, a trip member engaging one of said recessed portions, a starting lever operating said trip member to set the machine into operation, a swingable apron positioned adjacent the machine and in front of the operator, a link connected to the said swingable apron, a trip member operable by said link and normally engaging one of said recessed portions of the aforesaid flange and adapted to release the rotary shaft and drum to move from its normal operative position to a position to cause a reverse operation of the machine, reverse electric switch mechanism for causing such reverse operation of the machine, tension means for actuating rotary shaft and associated mechanism when released by the aforesaid trip member from a stationary position, and a stopping and resetting lever adapted to stop the machine under normal conditions and to reset the safety device after it has been thrown into position to reverse operation of the machine following operation of the swingable apron.

2,159,961
DEVICE FOR SPINNING ARTIFICIAL SILK THREADS
Karl Berndt, Tilsit-on-the-Memel, Germany
Application May 20, 1937, Serial No. 143,673
In Germany May 23, 1936
19 Claims. (Cl. 18—8)



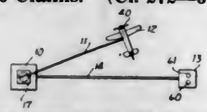
1. A device for spinning artificial threads from viscous material into a column of coagulating liquid having a rotating lower portion and a non-rotating upper portion, comprising a rotary spinning head arranged at the bottom of said column for ejecting said viscous material into said rotating portion of said column, means for supplying said viscous material to said head, and means for imparting a rotation to said head and said lower portion of said liquid column, in combination with a receptacle surrounding said head and designed for holding said lower portion of said liquid column, a container disposed above said receptacle and designed for holding said upper portion of said liquid column, a duct disposed axially between said receptacle and said container so as to form a passage for said thread, said receptacle being subdivided transversely to the spinning direction into a lower and an upper section, said two sections being detachable from each other so as to be removable relative to each other in said spinning direction, said lower section being cup-shaped and designed for holding part of said liquid covering said head and for rendering said head accessible for starting the spinning when said two sections are detached from each other.

2,159,962
HONE
Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application November 4, 1936, Serial No. 109,125
7 Claims. (Cl. 51—73)



1. In a hone, an arbor, a plurality of levers mounted thereon, a honing element carried by each lever, a sleeve axially slidable on the arbor, and a connection between the sleeve and each lever for simultaneous oscillation of the levers in response to movement of the sleeve, said connection including a roller engageable by the sleeve and each lever, one of said elements engageable with the roller having a notch in which the roller is located.

2,159,963
TOY AIRCRAFT
Joseph L. Bonanno, Forest Hills, N. Y., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application January 4, 1937, Serial No. 118,967
16 Claims. (Cl. 272—31)

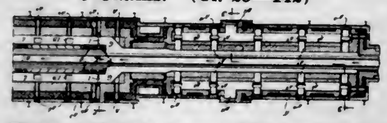


1. A toy comprising a stationary support, a tubular arm mounted thereon for rotation about a vertical axis, a miniature aircraft mounted on the end of the arm and provided with a propeller rotatable about an axis which is tangential with respect to the vertical axis, a propeller-operating shaft extending through the tubular arm, a stationary electric motor drivingly connected to the propeller shaft for operating the propeller to effect rotation of the arm about said vertical axis, an on-and-off motor starting switch for applying full voltage to the motor, and manually-operable mechanism for applying a variable braking effort on the motor to control the speed of the motor and the propeller.

2,159,964
MAGNESIUM ALLOY
Arthur Burkhardt, Berlin-Lichterfelde, and Richard Knabe, Berlin-Zehlendorf, Germany, assignors to Georg Von Giesche's Erben, Breslau, Germany, a corporation of Germany
No Drawing. Application July 2, 1938, Serial No. 217,254. In Germany August 10, 1937
2 Claims. (Cl. 75—168)

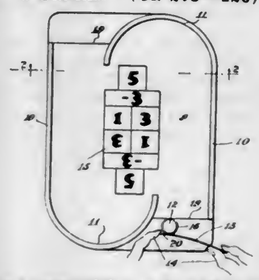
1. A magnesium alloy containing 2 to 6% bismuth, 0.5 to 3% cadmium, 1 to 5% aluminum, 1 to 3.5% zinc, the remainder substantially all magnesium.

2,159,965
TUNNEL KILN CONSTRUCTION AND METHOD OF OPERATION
Philip d'Huc Dressler, Pittsburgh, Pa., assignor to Swindell Dressler Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 17, 1937, Serial No. 154,179
6 Claims. (Cl. 25—142)



3. In a continuous tunnel kiln having a goods space and means for moving goods through said space from one end of the kiln to the other, the combination with an elongated combustion chamber at each side of the goods space extending along a heating section of said space and having an end outlet adjacent one end of said section and having bottom outlets distributed along the length of the combustion chamber and communicating with and adapted to discharge heating gases into the goods space adjacent the bottom of the latter, means for withdrawing heating gases from a second section of the goods space, displaced longitudinally from the heating section, but adjacent the said end of the latter, burners opening into the combustion chambers, and damper means for regulating the relative amounts of heating gas discharged from each combustion chamber through its end and bottom outlets.

2,159,966
GAME
Lewis W. Dunham, Brooklyn, N. Y.
Application March 30, 1937, Serial No. 133,763
8 Claims. (Cl. 273—126)



1. A game comprising a board having at least two raised walls, each extending along one side adjacent the edge of the board and being generally curved laterally and inwardly in excess of 90°, the board having a central scoring area and starting positions each lying between the end portion of one edge wall remote from its lateral portion and the inner end portion of an adjacent wall, the distance between said walls forming each starting position being wide enough to permit bank shots being played against its side wall which permits approaching the scoring area from almost any angle, the scoring area being substantially flat and level so that discs may be played across it, the inner end of each of said laterally and inwardly raised walls extending far enough inwardly to lie adjacent the scoring area but not extending inwardly far enough to

overlap and shield any substantial portion of said scoring area from lateral shots approaching said area from either side.

2,159,967

OXIDES OF AMINO ACIDS

Max Engelmann, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 15, 1938, Serial No. 202,358
13 Claims. (Cl. 260—404)

1. The new products of the formula:



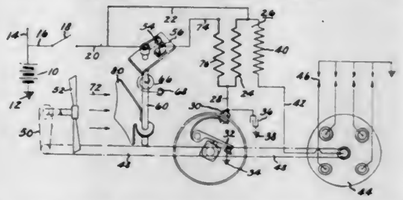
wherein R_1 and R_2 represent a radical selected from the group consisting of aliphatic and cycloaliphatic radicals, and R_3 is an aliphatic hydrocarbon radical containing an acidic group and at least one of the radicals represented by R_1, R_2 and R_3 has a chain length of at least 8 carbon atoms.

2,159,968

IGNITION CONTROL APPARATUS

John T. Fitzsimmons, Herman L. Hartzell, and Edward M. Claytor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 8, 1938, Serial No. 200,828
11 Claims. (Cl. 123—148)



1. Ignition apparatus comprising in combination, an ignition coil including a primary winding providing a normal excitation circuit, means providing an alternative excitation circuit, a current source, a circuit interrupter for controlling the passage of current from the source through the excitation circuit selected, and fluid operated means for selecting the excitation circuit to be energized during predetermined engine operating conditions, said fluid operated means comprising a switch responding to the air stream of engine operation, and a switch responding to the depression of the fuel mixture during engine operation, both of said switches being connected in series and disposed in the alternative excitation circuit.

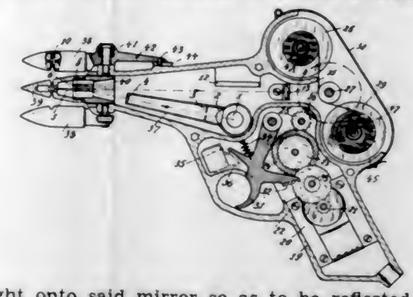
2,159,969

APPLIANCE FOR TESTING THE TENSION OF TEXTILE THREADS OR YARN

Stefan Fürst, Gladbach-Rheydt, Germany, assignor to W. Schlafhorst & Co., Munchen-Gladbach, Germany, a corporation of Germany

Application December 14, 1937, Serial No. 179,702
In Germany January 12, 1937
3 Claims. (Cl. 265—2)

1. An appliance for testing the tension of textile threads while the latter are operated upon, comprising three tension fingers disposed to deflect the thread between them so as to cause the thread to exert its tension against the fingers, a spring feeler of extremely small mass and having a high natural vibration frequency, disposed in the middle finger to contact with the thread to respond to the tension effect of the latter, a mirror directly attached to said feeler, a source of light disposed to project a beam of



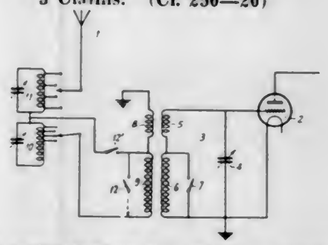
light onto said mirror so as to be reflected by the latter, and a movable recording screen disposed to receive the reflected beam and means for moving said screen to produce a graph thereon by said beam, corresponding in its rise and fall to the varying tension of the thread.

2,159,970

RADIO RECEIVER

Friedrich Kreienfeld, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 25, 1936, Serial No. 92,517
In Germany July 31, 1935
3 Claims. (Cl. 250—20)



1. In a radio receiver, an antenna circuit comprising an energy collector, a series arrangement of tunable tank circuits, each tank circuit having a variable capacitor and a tapped inductance, said antenna being connectable with different ones, selectively, of the taps on one of said tank circuits, a transformer coupling arrangement having primary windings connectable with the other one of said tank circuits through different taps selectively, an extremity of said primary windings being grounded, an amplifier stage having an input circuit inclusive of secondary windings in said transformer coupling arrangement, means for short circuiting portions of the primary and secondary windings respectively, and means for at times establishing a short circuit between the first described tank circuit and an intermediate point on said primary windings.

2,159,971

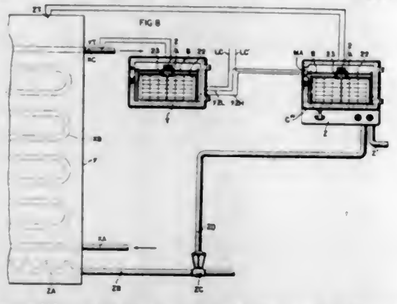
CONTROL APPARATUS

Anker E. Krogh, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 22, 1936, Serial No. 75,704
29 Claims. (Cl. 236—14)

28. In a control system for a fuel burning heater

for heating a substance, the combination of means responsive to the temperature to which said substance is heated by said heater, means responsive to a heater temperature, an adjustable control device adapted by its adjustment to vary the supply of fuel to said furnace and thereby modify each of said temperatures, a control instrument including normal value adjusting means and actuated by the second mentioned means to adjust said control device in accord-



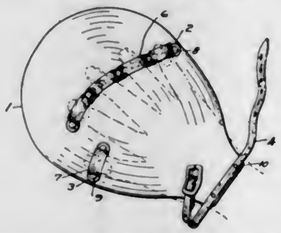
ance with variations of the second mentioned temperature from a normal value of the latter determined by the adjustment of said adjusting means, and a second control instrument actuated by the first mentioned means and including a member deflecting in accordance with variations in the first mentioned temperature, and including a member deflecting in accordance with the varying magnitude of the first mentioned temperature for adjusting said value adjusting means.

2,159,972

SWIMMING DEVICE

Arvid Larson, East Hempstead, Long Island, N. Y.

Application September 19, 1938, Serial No. 230,529
1 Claim. (Cl. 9—21)



An attachment adapted to be used on the hands for increasing the propelling power of a swimmer comprising a curved concave plate attached to the wrist of the swimmer, and with the hand positioned on the back or convex surface thereof, means holding the hand in position on the plate comprising individual loops for the tips of the fingers and thumb, with the said tips of the fingers and thumb adapted to be readily inserted in and removed from said loops, and in combination therewith an additional loop at the end of the plate providing the attaching means at the wrist, and formed of a relatively flexible strap adapted to be placed around the wrist, said device further characterized by an indentation adapted to receive the heel of the hand, and also in that the rear edge of the plate is curved downwardly, providing a smooth surface engaging the wrist when the tips of the fingers are withdrawn from the loops and the plate drops downward, in which position it is suspended from the wrist.

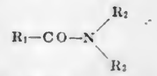
2,159,973

GELATINIZED HIGH EXPLOSIVE COMPOSITION AND METHOD OF PREPARATION

Walter Eastby Lawson, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

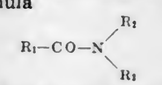
No Drawing. Application April 1, 1938, Serial No. 199,446
13 Claims. (Cl. 52—13)

1. A high explosive composition comprising a liquid explosive nitric ester gelatinized by means of nitrocellulose, and an acid amide having the formula



in which R_1, R_2, and R_3 are taken from a group consisting of hydrogen and the alkyl radicals.

8. The process of accelerating the gelatinization of nitrocellulose with a liquid explosive nitric ester, which process comprises bringing about said gelatinization in the presence of an acid amide having the formula



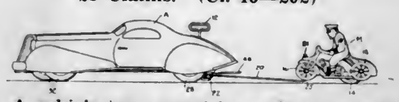
in which R_1, R_2, and R_3 are taken from the group consisting of hydrogen and the alkyl radicals.

2,159,974

MULTIPLE VEHICLE TOY

Raymond John Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application July 8, 1937, Serial No. 152,504
23 Claims. (Cl. 46—202)



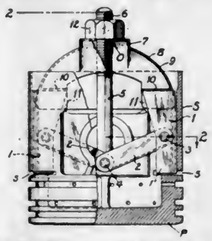
1. A vehicle toy comprising a first toy vehicle, means to move the same, a second toy vehicle disposed in the same horizontal plane as the first vehicle, an arm for supporting and moving the same, and motor driven means connected to one end of said arm to swing said arm at said end through an angle and to thereby change the angular position of said arm relative to the first vehicle in order to thereby change the relative positions of the vehicles.

2,159,975

PISTON SPREADER

Charles A. Marien, St. Louis, Mo., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri

Application June 22, 1936, Serial No. 86,505
1 Claim. (Cl. 153—80)



A piston spreader comprising oppositely dis-

posed shoes for contact with the piston wall, a supporting member for said shoes having a medial abutment and oppositely disposed shoe guiding devices depending therefrom, a pair of toggle links connected between the shoes, and a draw bolt between the toggle links and the abutment member whereby, upon drawing up the bolt, the abutment member and the shoes will be held in intimate engagement while the shoes are spread apart simultaneously therewith.

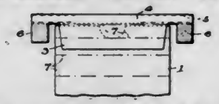
2,159,976

MEANS FOR SEALING TIN-TIE BAGS

Henry I. Matchett, Philadelphia, Pa.

Application February 28, 1938, Serial No. 193,007

8 Claims. (Cl. 229—65)



1. A bag, comprising rear and front walls, and a sealing member comprising a flap secured to said rear wall and having an upwardly projecting tin-tie extension, the oppositely directed arms of which project initially beyond the sides of the bag, and gummed tabs initially depending from said arms, said extension and the adjacent portions of the walls of the bag being adapted to be folded over upon said front wall, and said arms bent reversely around the adjacent sides of the bag and towards each other upon said rear wall, and said tabs then being secured to said rear wall, to secure said arms in reversely folded position, and prevent the release of said arms and reopening of the bag without destruction of said tabs.

2,159,977

PROCESS OF REMOVING IMPURITIES FROM MOLTEN METALS AND A FLUX FOR EFFECTING SAID PROCESS

Isaac A. Nicholas, Pittsburgh, Pa., assignor to The Standard Lime and Stone Company, Baltimore, Md., a corporation of Maryland

No Drawing. Application June 13, 1934, Serial No. 730,518. Renewed November 1, 1938

15 Claims. (Cl. 75—41)

1. The process comprising purifying a molten metal bath by the action of a basic slag, the basic component of said slag having been introduced therein by the reaction product made by calcining a lime base and a fluxing agent at a temperature of the order of 2500–3000° F., said reaction product consisting of small particles of lime embedded in a matrix derived from said lime base and said fluxing agent.

2,159,978

CONTAINER CLOSURE

Winfred T. Parkin, Providence, R. I.

Application July 30, 1938, Serial No. 222,249

6 Claims. (Cl. 221—62)



1. A container closure comprising a shell-like member having a substantially flat top wall provided with an outlet passage and a depending side-wall formed with inwardly projecting straight ribs adjacent to the underside of said top wall and defining therewith a pair of oppositely disposed grooves, and a shutter made of sheet Celluloid of a color contrasting with the color of the shell fitting against the underside of said top wall with its opposite edges slidably mounted in said grooves, said shutter having an actuating member projecting through an opening in said shell.

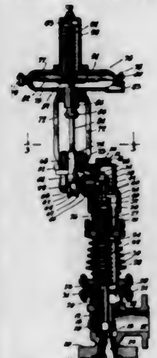
2,159,979

REMOTE CONTROLLED PRESSURE RELIEF VALVE

Ralph M. Parsons, Los Angeles, Calif., assignor to Bechtel-McCone-Parsons Corporation, Los Angeles, Calif., a corporation of Nevada

Application July 15, 1938, Serial No. 219,308

3 Claims. (Cl. 137—139)



1. A remote controlled pressure relief valve, comprising a housing having a valve member and a valve seat therein, a valve stem carrying said valve member, spring means tending to hold said valve member against said valve seat and permitting said valve member to be elevated for pressure relief purposes in response to excess pressure applied below said member, means to adjust the compression of said spring means for varying the relief pressure at which the valve is adapted to operate, a collar carried on said valve stem, a rotatable shaft journalled in said housing and having cam means engaging beneath said collar to lift said valve stem, means adjusting said collar with respect to said cam means, mechanical linkage means for actuating said shaft and a fluid pressure motor connected to actuate said mechanical linkage means, said housing having ports for inspection and adjustment registering with said spring adjusting means and said collar adjusting means, respectively, and covers normally closing said ports to provide a fluid tight housing.

2,159,980

OVERDRIVE GEARING

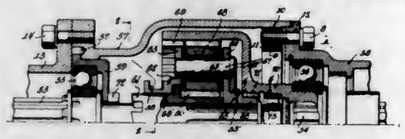
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware

Application August 7, 1935, Serial No. 35,056

2 Claims. (Cl. 74—290)

1. In a change speed gearing, the combination of a drive shaft, a driven shaft, change speed planetary gearing between said shafts including a sun gear and a planetary carrier shiftable as a unit relative to said drive and driven shafts and having a pinion mounted thereon meshing with said sun gear, said carrier being operatively connected with said drive shaft, an orbit gear

connected to said driven shaft and meshing with said pinion, said shiftable unit provided with clutch jaws, a clutch jaw associated with said driven shaft and adapted to engage one of said clutch jaws in one position of said shiftable unit for direct connection between said shafts inde-



pendent of said gearing, a relatively fixed clutch jaw adapted to engage the other of said clutch jaws in the other position of said shiftable unit for holding said sun gear stationary, means for shifting said unit, the jaws of said clutches being of the overrunning type.

2,159,981

PRODUCTION OF THERMOSETTING MOLDING COMPOSITIONS AND MOLDED ARTICLES FROM NATURAL HORN

Stefan Bakonyi, Dessau, Germany, assignor to O. Kraus, Prague, Czechoslovakia

No Drawing. Application December 21, 1936, Serial No. 116,997. In Germany July 21, 1936

9 Claims. (Cl. 260—6)

1. The process of producing a thermo-setting powder, adapted to be shaped by hot molding, from natural horn which comprises impregnating an ingredient consisting essentially of hoof meal formed by the grinding of hooves with urea and an aldehyde, and drying, grinding and hardening the mixture in such manner that the hardened product can be molded at a temperature ranging between about 130 and 150° C. to form permanently glossy shapes which do not swell, are not subject to changes of volume or shape and can be turned, planed and bored.

2,159,982

LEAD ALLOY AND METHOD OF PREPARING THE SAME

Nettie M. Hurd Bullock, Orlando, Fla.

No Drawing. Application January 5, 1937, Serial No. 119,081

7 Claims. (Cl. 75—166)

1. A process of preparing an alloy which consists in mixing, under agitation a metal such as lead with approximately 6% by volume of nitric acid, approximately 3% by volume of sulphuric acid, and approximately 8% by volume of clay until the chemical reaction has substantially ceased, then heating the mixture until thoroughly molten under agitation and until a scum forms, and then separating the scum from the metal.

2,159,983

STEERING MECHANISM FOR SELF-PROPELLED VEHICLES

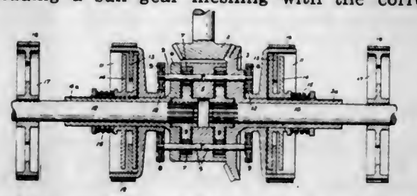
Joseph M. Colby, Fort Benning, Ga.

Application May 6, 1938, Serial No. 206,368

4 Claims. (Cl. 180—17)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a steering by driving mechanism, a pair of aligned axles, a pair of spaced disks having oppositely extending sleeves each rotatably mounted on one axle, means for driving one of the disks, a sun gear splined on the inner end of each axle, a ring spacing the disks and also spacing the sun gears, aligned shafts journaled in the ring and in the spaced disks and connecting these members to form a cage, planetary gears fixed to each shaft one inside the cage meshing with the sun gear of an axle and one outside the cage, a brake drum rotatably mounted on each sleeve and including a sun gear meshing with the corre-



sponding outside planetary gear, means for clutching each brake drum to its corresponding sleeve, a brake band for engaging each drum, a brake drum fixed on each axle, and a brake band for each fixed brake drum.

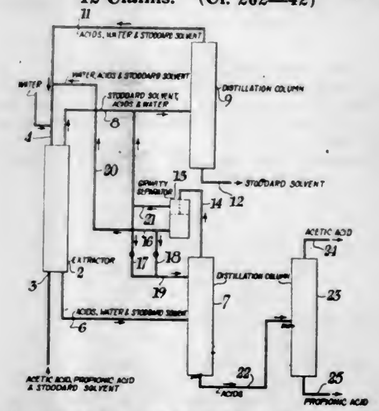
2,159,984

RECOVERY OF ACIDS FROM SLUDGE

Webster E. Fisher, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

Application February 6, 1936, Serial No. 62,716

12 Claims. (Cl. 202—42)



1. A process for the separation and recovery of the lower aliphatic acids existing in the form of a mixture with hydrocarbon materials having a boiling point between about 130° C. and 210° C. and substantially immiscible with water, which comprises adding sufficient water to the mixture to cause separation of the mixture into an acid layer containing a material amount of the acid and some quantities of water and hydrocarbon, and a second layer containing a material amount of the hydrocarbon, subjecting the acid layer to a distillation treatment whereby the hydrocarbon and water content are removed as an azeotrope, condensing and separating this azeotrope distillate and returning a portion thereof to the distillation treatment for regulation.

2,159,985

BEER AND METHOD OF PREPARING SAME

Philip P. Gray, Forest Hills, and Irwin Stone, New York, N. Y., assignors to Wallerstein Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application January 5, 1935, Serial No. 472

11 Claims. (Cl. 99—31)

1. In the art of producing beers and ales, the

step which consists in adding ascorbic acid to the beer or ale in such amounts and under such conditions as to effect a substantial lowering of the oxidation-reduction potential of the beer or ale without substantially affecting the wholesomeness, flavor, appearance or other desirable characteristics of such beer or ale.

2,159,986

ART OF PRODUCING IMPROVED AQUEOUS-OIL EMULSIONS

Philip P. Gray, Forest Hills, and Irwin Stone, New York, N. Y., assignors to Wallerstein Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application December 28, 1935, Serial No. 56,536
16 Claims. (Cl. 99—163)

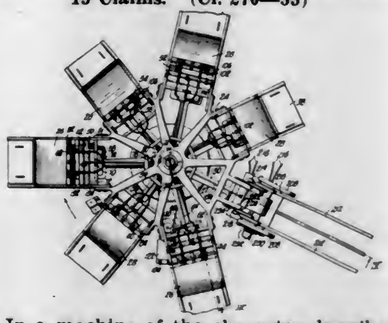
11. The method of protecting aqueous-oil emulsions against oxidation and the development of rancidity, which comprises introducing into the aqueous phase of the emulsion an agent capable of stabilizing the emulsion against oxidation, said agent being a compound selected from the group consisting of ascorbic acid, analogues and isomers thereof, reductone and dihydroxy maleic acid and being introduced in sufficient quantity to effect such stabilizing in a substantial degree.

2,159,987

PAPER STUFFING MACHINE

Joseph Hartmann, North Kansas City, and John G. Campbell, Kansas City, Mo., assignors of fifty-one per cent to William L. Suiter, Kansas City, Mo.

Application July 29, 1937, Serial No. 156,370
15 Claims. (Cl. 270—55)



1. In a machine of the character described, a series of circumferentially disposed receiving pockets mounted for rotation about a common axis; spaced-apart stationary magazines, each adapted to support a stack of folded sections adjacent the path of travel of said pockets; means to deliver folded sections to said pockets from said magazines; and means to removed the assembled sections from the pockets.

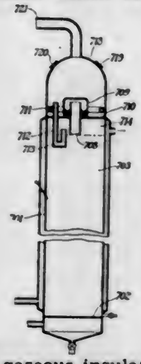
2,159,988

GAS AND LIQUID CONTACT APPARATUS

Rudolph Leonard Hasche, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 10, 1936, Serial No. 100,144
13 Claims. (Cl. 261—9)

1. A gas and liquid contact apparatus, which comprises a shell having top and bottom closures attached thereto to form an enclosed chamber, a plate construction within the apparatus dividing the chamber into a lower and a smaller upper zone, the plate construction including a gas riser which extends into the lower zone and an overflow conduit which terminates in a U-



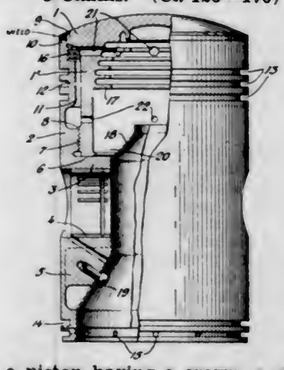
trap whereby a gaseous insulating layer may be formed between the two zones, temperature control elements associated with the apparatus, and inlet and outlet conduits connected to the apparatus.

2,159,989

WELDED TWO-PIECE LIGHT ALLOY PISTON

Ronald M. Hazen and Thomas S. McCrae, Jr., Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 19, 1937, Serial No. 137,656
5 Claims. (Cl. 123—176)



1. In a piston having a crown, a skirt, piston pin bosses, and a ring belt area in the outer wall of the piston between the crown and the piston pin bosses, a strut to support the crown from the piston pin bosses and forming an inner wall spaced from the outer wall of the piston to provide an enclosed annular insulating air space between the ring belt area and the strut forming the inner wall, said inner wall having at all points a greater cross-sectional area than points above and below the ring belt area in the outer wall of the piston, whereby only small portions of the gas pressure loads and the heat to which the crown is exposed in an engine cylinder are transmitted to the ring belt area, and the main portions of the gas pressure loads and the heat flow are carried directly through the inner wall to the piston pin bosses, said piston being made in two pieces subsequently fastened together, and having a joint in the outer periphery of the piston above the piston pin bosses, one of said pieces forming a part of the

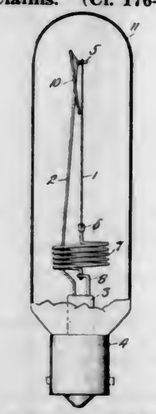
wall of the annular insulating air space and including the crown, and the other piece forming the remaining part of the wall of the annular insulating space and including the skirt.

2,159,990

EXCITER LAMP

Leonard A. Herzig, Brooklyn, N. Y., assignor to Clarence H. Venner, New York, N. Y.

Application June 17, 1937, Serial No. 148,635
2 Claims. (Cl. 176—16)



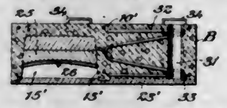
1. An exciter lamp comprising a single elongated filament, a base carrying an insulating support and an envelope carried thereby, a bracket carried by said support and extending into supporting engagement with the upper end of said filament, a second bracket carried by said support, a spring attached to the lower end of said filament and engaging said second bracket to hold said filament under tension, and a wire carried by said first-mentioned bracket having end portions engaging the inside of said envelope to hold said filament in fixed position with respect to said envelope.

2,159,991

PREFABRICATED BUILDING UNIT AND WALL

Meier G. Hilpert, Bethlehem, Pa.

Application February 3, 1937, Serial No. 123,931
8 Claims. (Cl. 72—1)



1. A building slab comprising a body portion having a top or outer wall, side and end walls, and ribs extending inwardly from the top or outer wall and cooperating with the side and end walls to form cells within said body portion, metallized paper linings for said cells, and a bottom or inner side closure for said slab body.

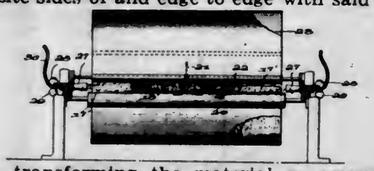
2,159,992

PROCESS OF MAKING SLIVERS FOR USE IN PADDING

Jesse A. Hunt, Collegepark, Ga., assignor to Egan Cotton Mills, Atlanta, Ga., a corporation of Georgia

Application January 23, 1933, Serial No. 653,157
3 Claims. (Cl. 19—145)

3. The process of preparing a sliver for use in the making of padding for laundry machines comprising assembling a plurality of superimposed layers of different materials, each layer comprising a strip of material adapted to form the core of the sliver, and strips of material adapted to form the outer covering of the sliver arranged on opposite sides of and edge to edge with said first



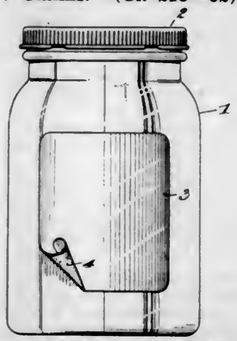
strip, transforming the material so assembled into a web of substantially uniform thickness, dividing the web longitudinally into sections each comprising a portion adapted to form the core, and a contiguous portion adapted to form the covering of the sliver, and twisting each of said sections with the core portion enveloped within the covering portion.

2,159,993

LABEL AND LABELING

Theodore H. Krueger, Shelton, Conn.

Application June 18, 1936, Serial No. 85,943
7 Claims. (Cl. 216—62)



4. The process of labeling hot heat-conducting containers which consists in applying to the hot container a label bearing on its back a normally non-sticky heat-softenable adhesive becoming adhesive when heated at an elevated temperature between 120° and 180° F.

2,159,994

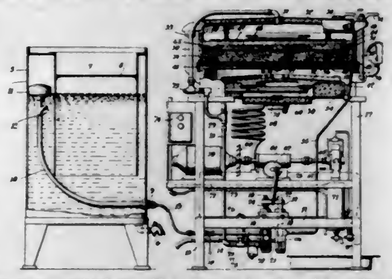
RECLAIMING APPARATUS

Theodore A. La Brecque, Elmira, N. Y., assignor to The Hilliard Corporation, Elmira, N. Y., a corporation of New York

Application November 14, 1936, Serial No. 110,847
1 Claim. (Cl. 196—16)

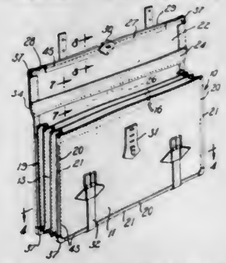
A reclaiming apparatus including a casing to contain a body of filtering material and being formed with openings in its upper and lower faces, means providing a vaporizing chamber below said casing, said chamber being formed with an outlet opening through which unvaporized liquid may discharge, said chamber being formed with a further outlet opening for the passage of vaporized liquids, a tube connected to the opening formed in the upper face of the casing, said tube being extended to provide a preheating coil, a pump including a plurality of cylinders and pistons within the same, means for moving said pistons with respect to

said cylinders, the end of said tube being connected to one of said cylinders whereby liquid under pressure is supplied to said casing, and a



tube connected to the second of said cylinders and to the liquid outlet opening of said vaporizing chamber for positively withdrawing liquid through said opening.

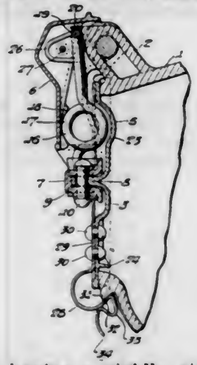
2,159,995
BRIEF CASE
Samuel H. Lifton, Brooklyn, N. Y.
Application July 31, 1935, Serial No. 34,077
Renewed September 10, 1938
4 Claims. (Cl. 150—1.6)



1. In a brief case, the combination of, spaced front and rear flexible walls each comprising side and lower marginal portions, a reinforcing member arranged adjacent said marginal portions of each of said walls, said marginal portions of each of said walls comprising parts folded over contiguous portions of an associated member and secured to the inner face of its respective wall, said folded over portions and a respective member constituting expanded reinforced beaded means extending along sides and lower edges of associated walls, and a closed bottom gusset interconnecting said walls.

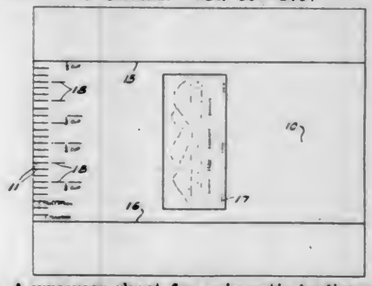
2,159,996
JOURNAL BOX
John O. Madison, deceased, late of Kings County, N. Y., by Jennie M. Madison, executrix, Brooklyn, N. Y., assignor to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland
Application August 23, 1935, Serial No. 37,583
6 Claims. (Cl. 308—47)

1. In combination with a journal box having an access opening, an articulated lid pivoted to said box for closing said opening and including resilient means for holding said lid in open or closed position, said box having a lug extending downwardly from the edge portion at the lower wall thereof adjacent said lid, and a resilient member firmly secured to the outer face adjacent the lower edge portion of said lid and normally engaging said lug for exerting downward force on said lid and decreasing the tendency to up and down vibration when in service; said resil-



ient member having a rigidly attached portion extending substantially vertically below said lug to form an actuating member.

2,159,997
QUANTITY INDICATING WRAPPER
Stephen R. Millar, Los Angeles, Calif., assignor of one-half to Alberta J. Millar and one-half to Olive P. McHale, both of Los Angeles, Calif.
Application December 15, 1937, Serial No. 179,913
2 Claims. (Cl. 99—179)

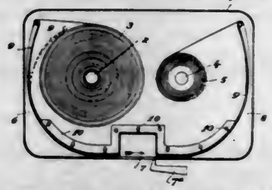


1. A wrapper sheet for prismatic bodies of butter and the like and consisting of a rectangular sheet of foldable material having one edge dimension substantially longer than the prism to be wrapped and its other edge dimension slightly greater than the sum of the widths of the sides of the prism to be wrapped, said sheet having a series of evenly spaced ribs on its inner face extending inwardly from the first mentioned edge with the terminal ribs of the series spaced uniformly from respective ends of said edge, the space between said terminal ribs being equal to the length of the prism to be wrapped.

2,159,998
FILM HOLDER FOR PHOTOGRAPHIC CAMERAS
Kurt Morsbach, Berlin-Grunewald, and Kurt Raschke, Berlin, Germany, assignors, by mesne assignments, to Camera Patents Corporation, Ridgewood, N. J., a corporation of New Jersey
Application June 4, 1931, Serial No. 542,034
In Germany August 26, 1930
9 Claims. (Cl. 88—17)

5. In a film magazine for amateur motion picture cameras, a magazine casing adapted to be removably inserted into a camera, a film supply

reel and a film take-up reel disposed within the casing, means mounted in the casing and disposed adjacent one wall thereof for guiding the film past an opening in the casing at which the film is exposed as it passes from the supply spool to the take-up spool, and means of predetermined

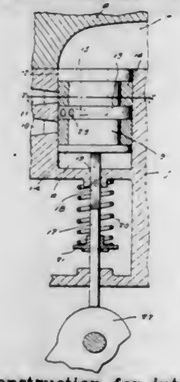


resiliency mounted in the casing and forming a continuation of said guiding means in the direction of travel of the film to the take-up spool and operatively engaging the film as it passes between the exposure opening and the take-up spool for automatically maintaining said film in a state of uniform tension.

2,159,999
PREVENTING THE CAKING OF SODIUM PERBORATE
Joseph S. Reichert and Howard L. Potter, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 29, 1937, Serial No. 166,397
2 Claims. (Cl. 23—243)

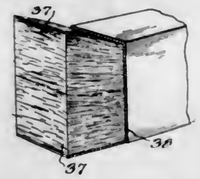
1. A dry, stable mixture comprising sodium perborate in powdered form and sufficient magnesium benzoate to stabilize said powdered sodium perborate against caking upon storage.

2,160,000
COMBINED INTAKE AND EXHAUST VALVE FOR INTERNAL COMBUSTION ENGINES
William E. H. Rhein, Reading, Pa.
Application June 7, 1938, Serial No. 212,376
3 Claims. (Cl. 123—188)



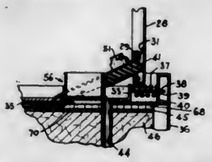
1. A valve construction for internal combustion engines comprising a cylindrical chamber in the engine block communicating with the combustion chamber, relatively closely vertically spaced intake and discharge ports communicating with said chamber, said ports having a common dividing wall, a piston valve operable in said chamber having its upper portion hollow and opening through the top of the piston valve, said piston valve embodying a plurality of spaced annular flanges including upper and lower and an intermediate flange and radially extending passages communicating with the hollow upper portion of the piston valve and extending through the outer walls of said intermediate flange and adapted for successive communication with the intake and exhaust ports upon the operation of the piston valve, and vertically extending fins projecting longitudinally in said intake and discharge ports defining passages communicating with the respective openings in said piston valve.

2,160,001
GLASS WOOL PACKING
Arthur D. Saborsky, Rossford, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application March 13, 1937, Serial No. 130,687
4 Claims. (Cl. 20—4)



1. In a vertically disposed insulating panel having vertical side walls spaced apart from one another and having top and bottom members therefor, fibrous material composed of glass wool fibers substantially filling said insulating panel between said walls and extending between said top and bottom members, said fibrous material consisting of a vertical stack of individual strips of intermatted glass wool, all of the fibers in said strips lying substantially horizontally and crisscrossed with one another in open formation and having a compressibility and flexibility in the vertical direction.

2,160,002
LIGHTER
George Philip Schmitt, New York, N. Y., assignor to Platinum Products Corp., New York, N. Y., a corporation of New Jersey
Application December 27, 1935, Serial No. 56,309
In Great Britain February 20, 1935
23 Claims. (Cl. 67—7)



3. A lighter comprising a container having a cover, a slideway near the top of the container and having an air vent, a slide fitting the slideway and containing a piece of catalytic material for ignition purposes, said slide being hingedly connected to said cover, said slideway having a fuel vapor opening over which the slide extends whereby the material can be alternatively placed at the fuel opening or removed therefrom upon respective opening and closing of the cover, and means operable by said cover adapted to seal said fuel opening and said vent when said cover is closed.

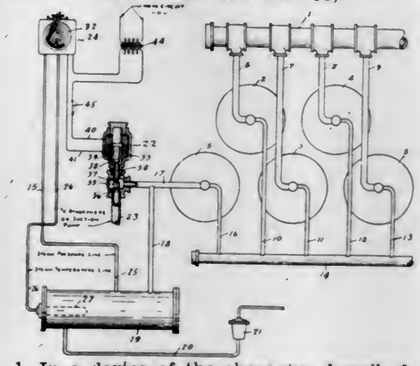
2,160,003
AIR FILTER
Games Slayter, Newark, and Jan Stuart Irvine, Toledo, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application September 14, 1931, Serial No. 562,752
Renewed August 23, 1938
10 Claims. (Cl. 183—49)



3. A container for an air filtering material, said container made of fibrous material and comprising front and rear telescoping sections, each section including a substantially flat rectangular body portion, edge portions extending at right angles thereto, each said body portion consisting of open-work providing openings for the passage of air therethrough and through the filter, and angular sheet metal reenforcing strips secured to the inner face of one of said sections and extending transversely thereof, said strips being formed with integral prongs projecting perpendicularly therefrom.

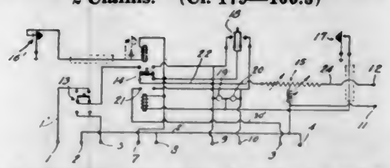
10. A filter unit comprising a filtering medium, a container therefor including a body and flange portions of resilient material forming the edges of said container, said unit being adapted to occupy an opening defined by frame members and to have its flange portions forced inwardly toward the body of the filter and thereby hold the filter in position and provide a substantially air tight seal when said unit is inserted in the opening defined by the frame members.

2,160,004
DEVICE FOR INDICATING THE PRESENCE OF NONCONDENSABLE GASES IN STEAM SYSTEMS
Frederick C. Stamm, Lockport, N. Y.
Application February 21, 1936, Serial No. 65,169
4 Claims. (Cl. 237—68)



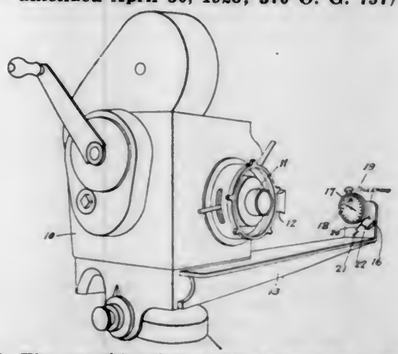
1. In a device of the character described, the combination with a system containing steam, an electrically operated valve to permit the escape of air from said system, a control chamber through which passes steam from said system, an electric circuit for actuating said valve, said circuit being normally open and having two movable contacts adapted to close said circuit, one of said contacts being actuated by changes in actual steam temperature within said control chamber and the other of said contacts being actuated by changes in actual steam pressure within said control chamber.

2,160,005
ELECTRICAL CHANGE-OVER
Chester Tappan, New York, N. Y., assignor to General Talking Pictures Corporation, New York, N. Y., a corporation of Delaware
Application September 10, 1935, Serial No. 39,924
2 Claims. (Cl. 179—100.3)



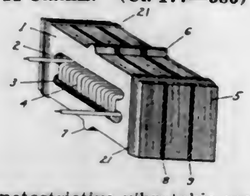
1. A combination with electrical mechanism for controlling two sound reproducing apparatus each of which has an exciter lamp, of an electrical network interposed, said apparatus including two push-button switches, one adjacent each apparatus, a main double acting electrically actuated switch, two electro magnets operable respectively from the push buttons to move the switch and hold the same in one of two directions, and an attenuator interposed in the circuit for controlling the quality of the sound originating in either apparatus, and a switch for each exciter lamp whereby either exciter lamp may be energized independently of the operation of its particular apparatus.

2,160,006
TIME RECORDING DEVICE
Louis T. E. Thompson and Nils A. M. Riffolt, Dahlgren, Va.
Application March 24, 1934, Serial No. 717,190
2 Claims. (Cl. 234—36.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



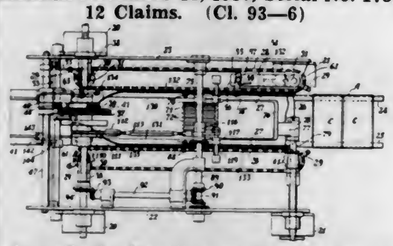
1. The combination with a moving picture camera, of an auxiliary lens system disposed to project light to a marginal portion of a film exposure area in said camera, a timepiece and an index mounted in the field of said auxiliary lens system, there being adjacent said index a mark to indicate the normal position of said index; a solenoid, a movable core therein upon the outer end of which said index is carried, means tending to hold said index in said normal position, means to energize said solenoid to move said core against the action of the aforesaid means, and means to control the energization of said solenoid.

2,160,007
MAGNETOSTRICTIVE VIBRATOR
Edwin E. Turner, Jr., West Roxbury, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application May 27, 1936, Serial No. 82,038
11 Claims. (Cl. 177—386)



4. A magnetostrictive vibratable member comprising a plurality of magnetostrictive laminations, each having a length equal to a multiple of the half wave length of the frequency of longitudinal vibration desired and a width which is not small compared to said half wave length, longitudinal apertures in each of said laminations extending substantially along the entire length of the laminations and spaced to divide the laminations into portions measured in the direction of the width of the laminations short compared to the said half wave length, means for holding said laminations together and vibration damping means inserted between groups of laminations, said groups being sufficiently small to make the combined thickness of the laminations in each group small in comparison with the said half wave length.

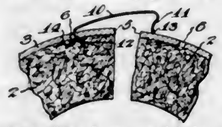
2,160,008
METHOD OF AND MACHINE FOR SEALING BOXES OR CARTONS
John Van Buren, Brooklyn, N. Y.
Application November 11, 1937, Serial No. 173,960
12 Claims. (Cl. 93—6)



1. A method of sealing cartons having inner and outer flaps which consists of applying heat to the inner surfaces of the outer flaps, applying adhesive to the outer surfaces of the inner flaps and folding the outer flaps inwardly into contact with the inner flaps.

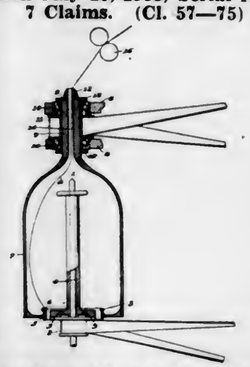
2,160,009
PIPE COVERING
John E. Walker, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application July 29, 1936, Serial No. 93,205
6 Claims. (Cl. 154—44)

1. A clip of spring metal adapted to fasten abutting longitudinal edges of a pipe cover which comprises an integral strip of metal bent to have an arcuate band and two legs at opposite ends thereof forming an acute angle with the said band, one of said legs being provided with a barb



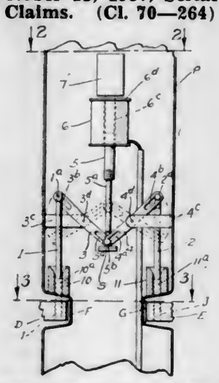
extending outwardly from said leg toward said band, and the other leg being substantially smooth and free from projections for releasably fastening said edges.

2,160,010
SPINNING, TWISTING, AND ANALOGOUS MACHINES
George Stanley Whittemore, Somersworth, N. H.
Application July 16, 1938, Serial No. 219,608
7 Claims. (Cl. 57—75)



1. In ring spinning and analogous machines an assembly including a bobbin carrying rotary spindle, a traveler ring and traveler carried by it, a rotary hood enveloping the bobbin carried by said spindle and to the bottom end of which hood said ring is fixedly secured, means for mounting said hood, means whereby the yarn is directed into the interior of said hood and to said traveler, means for rotating said spindle, and means for rotating said hood in the direction of rotation of said spindle.

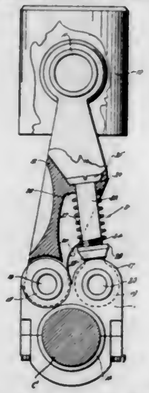
2,160,011
AUTOMOBILE DOOR LOCKING APPARATUS
Orville L. Beck, Dahlgren, Va.
Application October 18, 1937, Serial No. 169,590
5 Claims. (Cl. 70—264)



1. In an apparatus of the class described, a

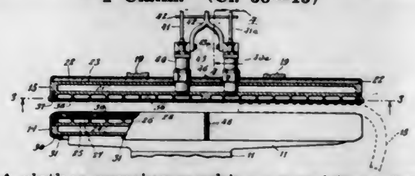
solenoid, a plunger positioned to move within said solenoid, a pair of pin members for engaging and locking the bolts of a pair of doors of an automobile, and link members operatively connected between said pin members and said plunger, the said plunger in response to the magnetic field created by said solenoid actuating the said pin members by means of said link members.

2,160,012
CONNECTING ROD
John W. Botsford, Los Angeles, Calif.
Application January 31, 1938, Serial No. 187,906
3 Claims. (Cl. 74—581)



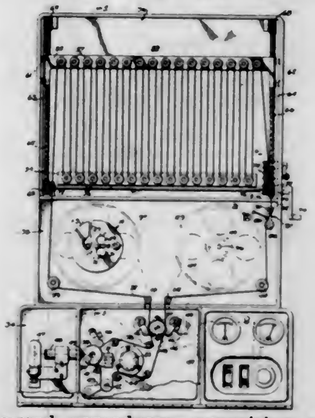
1. A connecting rod comprising one section adapted to be connected to a wrist pin and a second section adapted to be connected to a crank throw, said sections being pivotally connected together at a point laterally with respect to the center line through the wrist pin and crank throw, a stem pivotally connected to the second section and slidably extending through a portion of the first section, means on the stem engageable with the first section to limit pivotal movement of the section relative to each other, and a spring around the stem urging said sections apart.

2,160,013
CLOTHES PRESSING MACHINE
Isaac Burnstein, Buffalo, N. Y.
Application March 23, 1937, Serial No. 132,539
1 Claim. (Cl. 38—15)



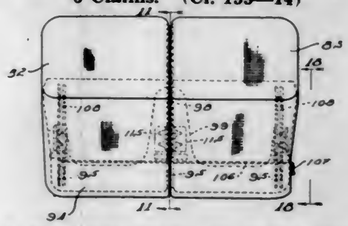
A clothes pressing machine comprising a lower buckboard having a single screened compartment extending the full length of this board, an upper buck board having two screened compartments which are arranged side by side and which oppose the single screened compartment of the lower buck board, two separate valves for controlling the admission of steam individually into the respective compartments of said upper buck board, separate auxiliary means for operating said valves independently of each other and each of these auxiliary means including an auxiliary hand lever, and a main hand lever arranged between said auxiliary levers and having laterally projecting arms adapted to simultaneously engage both of said auxiliary hand levers for opening both of said valves at the same time.

2,160,014
SOUND FILM APPARATUS
Edwin L. Fischer, Burbank, Calif., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application September 21, 1936, Serial No. 101,696
7 Claims. (Cl. 274—5)



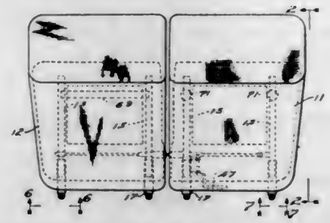
1. A sound reproducer comprising a sound film translating unit, a film storage compartment adjacent said unit, a lower stationary spool head in said compartment, an upper movable spool head in said compartment, means for guiding said upper spool head in a vertical direction, a chain on each end of said upper head, a sprocket engaging each of said chains, and means for rotating said sprockets whereby said upper head may be raised or lowered in parallel relation with said lower head.

2,160,015
VEHICLE SEAT
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, a corporation of Delaware
Application December 11, 1933, Serial No. 701,741
6 Claims. (Cl. 155—14)



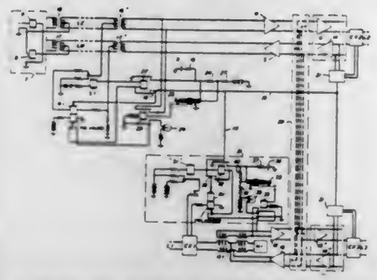
6. A seat construction for vehicle bodies including in combination, trackways within said vehicle body, a seat supporting frame supported on said trackways, aligned mated seat portions movably mounted on said seat supporting frame, a seat back portion associated with each of said seat portions, said seat back portions being pivotally connected to said seat frame whereby the same may be tilted with respect thereto, and means interconnecting said seat back portions with said seat portions to effect movement of said seat portions upon tilting of said seat back portions.

2,160,016
VEHICLE SEAT
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, a corporation of Delaware
Application May 3, 1934, Serial No. 723,658
9 Claims. (Cl. 155—14)



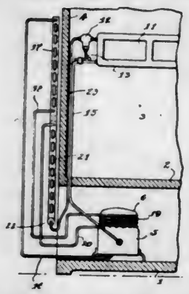
8. A unit seat for vehicle bodies, said seat being split to form two mating seat portions, trackways for mounting each of said seat portions for longitudinal movement, pivotal connections for each of said seat portions connecting the same with the floor of the vehicle and providing for independent tilting of said seat portions, means individual to each of said seat portions cooperating with said trackways for locking said seats against longitudinal movement, and release mechanism common to both of said seat portions cooperating with said locking means serving to simultaneously release the same and lock said seats together for movement as a unit.

2,160,017
SIGNALING SYSTEM
Richard B. Hearn, Hollis, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 3, 1938, Serial No. 193,647
2 Claims. (Cl. 179—170)



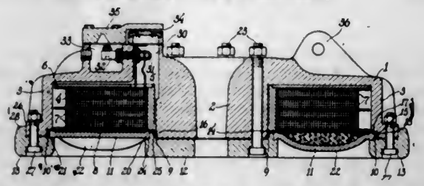
1. A signaling system comprising a plurality of transmission paths, a circuit for each of said lines for repeating auxiliary control signals between said lines, said circuit including a relay responsive to incoming signals, a relay for transmitting outgoing signals and a slow-releasing relay, a common path under the joint control of each associated pair of incoming signal and slow-releasing relays for controlling the outgoing signal relays of the other of said circuits, said slow-releasing relays being constructed of piezoelectric crystals faced in condenser-like manner with conducting sheets and arranged to respond to potential differences set up by their said associated outgoing signal relays.

2,160,018
REFRIGERATING SYSTEM
William W. Higham, Detroit, Mich., assignor to Universal Cooler Corporation, Detroit, Mich., a corporation of Michigan
Application July 26, 1937, Serial No. 155,591
2 Claims. (Cl. 62—115)



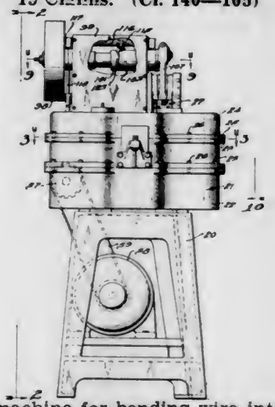
1. In a refrigeration system, the combination of a housing having a sealed motor-compressor unit therein, an evaporator, a condenser having two sections, a conduit connecting the evaporator and motor-compressor unit, a conduit connecting the motor-compressor unit with one section of the condenser, a conduit connecting the other section of the condenser to the evaporator, and a coil connected in between the two sections of the condenser and disposed adjacent the housing in direct contact therewith and in close proximity to the stator of the motor for the passage of liquefied refrigerant therethrough to cool the stator.

2,160,019
LIFTING MAGNET
Howard E. Hodgson, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 22, 1937, Serial No. 170,334
6 Claims. (Cl. 175—367)



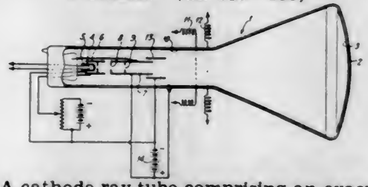
1. In a lifting magnet, in combination, a magnet frame having concentrically arranged inner and outer pole projections, an annular coil unit mounted in the space between said pole projections, an annular sealing disk formed of thin sheet metal and mounted in the space between said pole projections to form with said magnet frame a complete enclosure for said coil unit, continuous welded connections between said magnet frame and the inner and outer edges of said disk, and rigid supporting means engaging the under side of said sealing disk and supporting said disk substantially throughout to prevent flexing of any part thereof, said supporting means including a rigid shield of annular form secured to said inner and outer pole projections.

2,160,020
WIRE BENDING MACHINE
Frank J. Horton, Detroit, Mich., assignor to No Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application January 21, 1938, Serial No. 186,015
15 Claims. (Cl. 140—105)



1. In a machine for bending wire into sinuous form, of a device on said machine for severing such sinuously formed wire into sections, and means for forming the adjacent ends of the wire of each section at an angle to said wire during said severing operation.

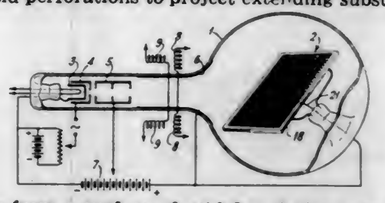
2,160,021
ELECTRODE ARRANGEMENT FOR CATHODE RAY TUBES
Harley A. Iams, Berkley Heights, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application June 29, 1937, Serial No. 150,921
5 Claims. (Cl. 250—155)



4. A cathode ray tube comprising an evacuated envelope, an electron emitting cathode within the envelope, a target in the path of the electrons emitted by said cathode, and three substantially cylindrical focusing electrodes within the envelope in the space separating the cathode from the target, and of progressively increasing diameter from said cathode to said target, the outer two of said electrodes being connected together and adapted to receive a high positive potential with respect to said cathode, the intervening electrode being in telescopic relation with said outer two electrodes and connected to said cathode through a low resistance non-inductive path.

2,160,022
SCREEN FOR CATHODE RAY TUBES
Henry W. Kaufmann, East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application August 31, 1937, Serial No. 161,732
9 Claims. (Cl. 250—27.5)

1. A luminescent screen comprising a metal foundation member having a multiplicity of perforations, and rodlets of a refractory oxide fixed in said perforations to project extending substantially from a surface of said foundation member with their distal ends spaced from one another and leaving voids therebetween.

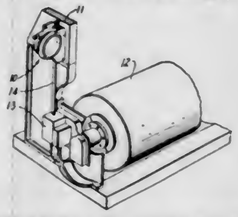


2,160,023
TOOL FOR HANDLING CONGEALED MATERIALS
Sherman L. Kelly, Toledo, Ohio
Continuation of application Serial No. 22,946, May 23, 1935. This application March 28, 1938, Serial No. 198,601
14 Claims. (Cl. 107—48)



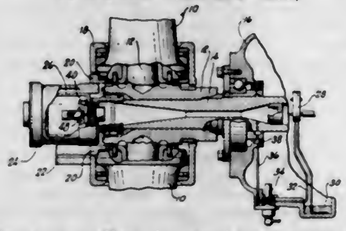
1. A dispensing tool for congealed material embodying a handle and a bowl, said bowl being provided with a bottom, rim, and sides between the bottom and rim, said rim having a material severing portion, a side forming a concave face extending from the severing rim portion, and ribs on said face integral therewith and spaced by grooves.

2,160,024
WARPER APPARATUS
Brooks Marcellus, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Original application November 2, 1935, Serial No. 47,919. Divided and this application April 7, 1938, Serial No. 200,617
2 Claims. (Cl. 33—132)



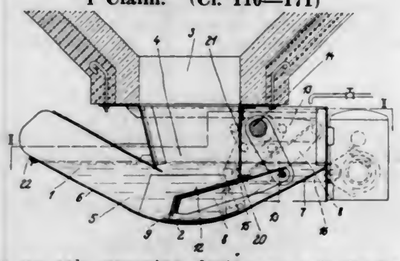
1. A warper having, in combination, a friction drum to drive a yarn container, speed-reduction change gearing mounted on the warper and driven with the drum, said gearing including a driven member adapted to be rotated at an angular velocity bearing a predetermined ratio to the peripheral speed of said drum upon proper initial adjustment of said change gearing, and a warper clock detachably mounted on the warper and having a detachable connection to said driven member to drive the clock, whereby said clock may be utilized to register accurately the integrated peripheral speed of said drum irrespective of variations in drum diameter in different installations.

2,160,025
HYDRAULIC CONTROL MECHANISM
Erle Martin, West Hartford, Conn., assignor, by mesne assignments, to United Aircraft Corporation, a corporation of Delaware
Application November 7, 1934, Serial No. 751,855
20 Claims. (Cl. 170—163)



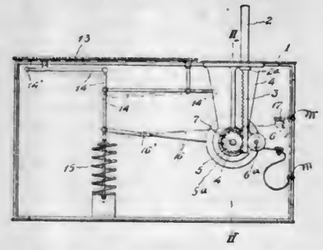
1. In a propeller, in combination, hydraulic actuated means for changing the pitch of the propeller blades mounted for rotation with the propeller and having an orifice through which oil may be led to and from said means, a spring pressed valve for closing said orifice, a spring pressed plunger adapted to reciprocate adjacent said valve, the plunger spring being of greater strength than said valve spring and adapted in one position to act on said valve to open said valve, means for introducing hydraulic fluid of limited pressure to one side of said plunger to compress said plunger spring and allow said valve to close, and means for introducing fluid under increased pressure to the under side of said valve to open said valve, said fluid introducing means comprising a three way valve adapted in one position to connect said valve and plunger with a source of fluid pressure, and in another position with a drain and in a third position with a pressure relief valve.

2,160,026
ASH REMOVING DEVICE
Josef Martin, Munich, Germany
Application July 2, 1937, Serial No. 151,706
In Germany July 4, 1936
1 Claim. (Cl. 110—171)



In an ash removing device, an ash discharge chute, a receptacle adapted to be partly filled with water, said receptacle comprising two spaced parallel side walls and a curved bottom wall terminating at one end in an upwardly inclined portion, the upper edge of which is positioned in a higher plane than the lower edge of the discharge chute, said discharge chute having a wall extending downwardly below the normal water level in said receptacle, a reciprocating plunger in sliding engagement with said curved bottom and adapted to push the ashes dropping onto the bottom of the receptacle toward said upwardly inclined portion, said plunger being provided with a top wall positioned directly below said discharge chute when the plunger has completed its discharge stroke, means for reciprocating said plunger including a horizontal shaft, means for oscillating said shaft about its own axis, and a lever arm on said shaft pivotally connected to the rear end of said plunger, said shaft extending transversely through said receptacle and being positioned adjacent said downwardly extending wall in a plane above the plane in which said plunger is reciprocated, said lever being attached to said shaft to extend downward therefrom, and to form an acute angle with respect to the plunger during its reciprocating movement for causing said top wall of said plunger to move past the lower edge of said downwardly extending wall of said chute with limited clearance during the entire movement of the plunger to prevent the entrance of clinker and the like between said lower edge and said top wall.

2,160,027
FOOT-SOLE-CONTOUR DETERMINING APPARATUS
Eugen Matthias, Celerina, Switzerland
Application October 12, 1937, Serial No. 168,669
In Switzerland October 15, 1936
5 Claims. (Cl. 33—3)

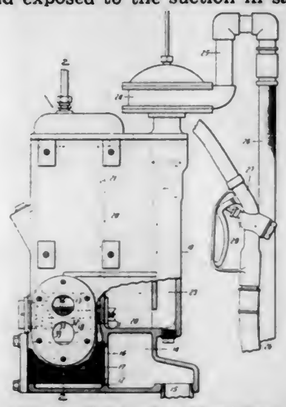


1. In a device for determining the vertical distance between the heel bottom of a foot and a horizontal plane which the ball of the foot contacts when the leg is held in natural hanging position, a casing having a horizontal top wall, a vertically movable plunger slidably mounted within said casing and projecting normally with its upper end a predetermined distance above said top wall, means operatively connected with the inner portion of said plunger for indicating the distance the said plunger is depressed by the heel of a foot engaging the upper end of the plunger, means for returning said plunger automatically to its normal position when the heel disengages said plunger, a horizontal plate mounted for limited vertical movement and located normally above said top wall and above the said horizontal plane in a position to be engaged by the ball of the foot whose heel engages said plunger, and means responsive to a downward pressure upon said horizontal plate for closing an electric contact within said casing when said plate is depressed into said horizontal plane.

2,160,028
BYPASS VALVE
Fred W. Moore, Dayton, Ohio, assignor to National Pumps Corporation, Dayton, Ohio, a corporation of Ohio
Application November 8, 1937, Serial No. 173,361
4 Claims. (Cl. 103—42)

1. In a by-pass valve for controlling the flow of liquid through a port connecting the discharge conduit of a pump with the suction conduit therefor, a valve member supported in said suction conduit for movement to a position to close said

port and having surfaces exposed respectively to the pressure in said discharge conduit and to the suction in said suction conduit, a spring tending to move said valve member to its closed position, a cylinder, a piston in said cylinder connected with said valve member independently of said spring and having a surface spaced from said valve and exposed to the suction in said suction



conduit, said surface of said piston being opposed to and of an area at least equal to the area of that surface of said valve member which is exposed to said suction, said cylinder having a vent on that side of said piston opposite said valve member, a liquid receptacle communicating with said discharge conduit and normally containing liquid, and a vent tube leading from said vent into the liquid in said receptacle.

2,160,029

SECTIONAL BRUSH

Laurits Henrik Nielsen, Kolding, Denmark, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application September 19, 1936, Serial No. 101,658
In Denmark September 20, 1935
1 Claim. (Cl. 15—179)



A brush section comprising in combination a ring of U-shaped cross section, bristles therein, and holding elements retaining said bristles in place, portions of said holding elements projecting inwardly through the bottom of said channel.

2,160,030

PROCESS FOR THE PRODUCTION OF ALCOHOLIC SOLUTIONS OF SULPHUR AND METAL SULPHIDES

Paul Nitsche, Dresden, Germany

No Drawing. Application September 1, 1938, Serial No. 227,963. In Germany January 21, 1936

7 Claims. (Cl. 252—6)

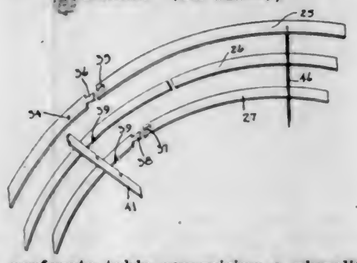
3. Stable, true alcoholic solutions of substances of the class consisting of elementary sulphur, sulphide of arsenic, sulphide of antimony and sulphide of selenium soluble in a solvent of the group consisting of benzyl-amine and hydrogenated cyclic amines, the said solution comprising an alcohol selected from the group consisting of methyl and ethyl alcohols, a substance of the aforesaid class, a solvent of the aforesaid group, and a solution promoter-selected from the group consisting of cyclo-hexyl-amine-olein soaps, the alkali salts of oleic acid, fatty alcohol sulphonates, Turkey red oil, and triethanolamine.

2,160,031

PERFORATE TABLE

Walter F. Ohme, Minneapolis, Minn., assignor to North Star Specialty & Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota

Application February 1, 1937, Serial No. 123,380
3 Claims. (Cl. 141—9)



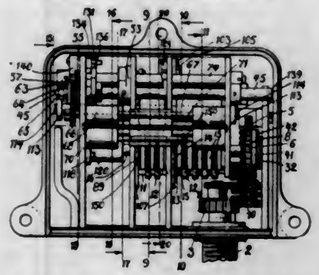
1. A perforate table comprising a plurality of supporting members in excess of three, constructed of flat strips bent in the form of circles of different diameters, said strips being arranged on edge in spaced concentric relation, the intermediate of said supporting members having aligning radially downwardly extending notches therein, and the outermost and innermost of said supporting members having openings extending therethrough and disposed in alignment with said notches, tie members constructed of flat strips provided with upwardly extending notches engaging the notches of said supporting members, and tongues on the ends of said tie members entering said openings.

2,160,032

PRINTING ODOMETER

John F. Ohmer, Dayton, Ohio, assignor, by mesne assignments, to Central National Bank of Cleveland, Cleveland, Ohio, as trustee

Original application October 3, 1932, Serial No. 635,976. Divided and this application May 3, 1935, Serial No. 19,679
4 Claims. (Cl. 235—30)



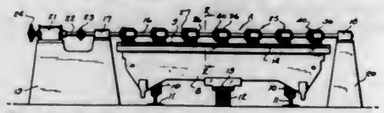
1. In a register, a counter adapted to print a record on a card, a visual counter, a driving element to simultaneously actuate both counters and separate means for operatively connecting said driving element with the respective counters to cause the same to normally register identical data, the means for connecting said driving element with said printing counter comprising a slip connection arranged to disconnect said driving element from said printing counter when excessive resistance is offered to the movement of the latter and thereby permit the normal movement of said driving element and said visual counter, a device for impressing a mark on said record card, and means controlled by said slip connection for actuating said device when said printing counter is disconnected from said driving element.

2,160,033

MEANS FOR MOUNTING GLASS SHEETS UPON WORK TABLES

Edwin A. Rosin, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application April 29, 1938, Serial No. 205,043
10 Claims. (Cl. 51—277)



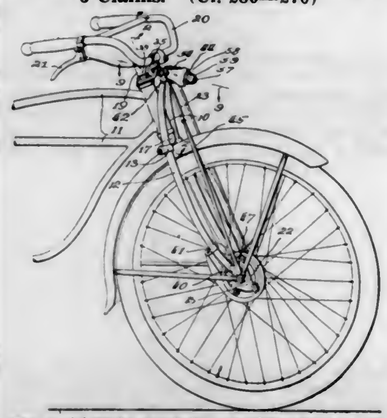
1. In apparatus for mounting glass sheets which are to be surfaced, a table upon which the glass sheet is adapted to be mounted, a layer of plastic material on said table and upon which the glass sheet rests, means for moving said table in a horizontal path, a plurality of pressing units mounted in a fixed position above the path of travel of said table and including pressure rollers spaced transversely thereof for pressing the glass sheet downwardly into the plastic material as the said sheet is carried therebeneath, and means for positively driving said pressure rollers.

2,160,034

BICYCLE SPRING FORK MECHANISM

Frank W. Schwinn, Chicago, Ill.

Application March 3, 1938, Serial No. 193,678
3 Claims. (Cl. 280—276)



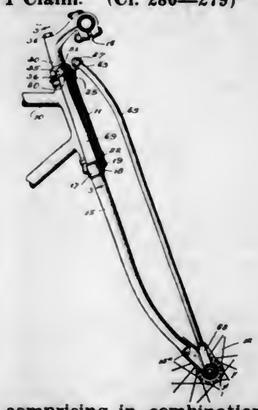
1. In a bicycle and in combination with the steering post thereof, a front fork structure which is dirigible with the steering post and pivotally connected with the lower end of the steering post for movements on a horizontal axis, such fork structure comprising arms which extend upwardly and forwardly from the horizontal axis of said fork structure, a yoke connecting the upper portions of said arms, said yoke having an opening in its forward wall and a rigid sleeve extending rearwardly from said opening, a cushion arbor carried by and movable with the upper end of the steering post, said cushion arbor being of materially less diameter than said opening and sleeve so as to extend freely therethrough and beyond the forward wall of said yoke, such cushion arbor supporting a coiled spring at its rear end, the forward end of said spring surrounding said sleeve and having a mounting thereon so as to oppose rearward movements of the aforesaid arms, and a rubber button at the forward end of the cushion arbor, said button having a rearwardly extending cup-shaped portion of materially greater diameter than the opening through said yoke wall so as to elastically engage with said yoke outwardly of said opening when the yoke is forced forwardly by the coiled spring.

2,160,035

BICYCLE FRONT FORK STRUCTURE

Frank W. Schwinn, Chicago, Ill.

Application March 3, 1938. Serial No. 193,679
1 Claim. (Cl. 280—279)

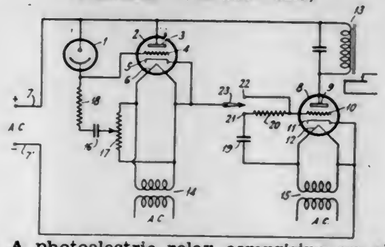


A bicycle comprising in combination a steering head, a fork member, a cross member to which said fork member is attached and from which it extends downwardly to the axle of a wheel disposed between such fork member, said cross member being disposed immediately beneath the steering head and being rigidly attached to the lower end of a steering tube which extends upwardly through said steering head, an adjustable steering post, the lower end of which is adapted to telescope within said steering tube, a second cross member disposed above the steering head and secured to the upper end of such steering tube, said second cross member comprising an elongated plate having three substantially aligned apertures the intermediate of which is secured on the upper end of said steering tube and said member being formed with a forwardly extending bifurcated portion, extensions of said fork member rising from said first cross member and being secured in the outer of said apertures in said second cross member, and a pair of brace rods, each of said brace rods having its upper end attached to a bifurcated portion of said second cross member and having its lower end apertured to receive the axle of the wheel.

2,160,036
PROCESS OF MAKING LIQUORS
Abraham Shapiro, Chicago, Ill.
No Drawing. Application May 22, 1936, Serial No. 81,340
3 Claims. (Cl. 99—37)

3. A process of producing distilled liquors of predetermined flavor characteristics which comprises, treating a mash of corn grits, substantially freed from the natural corn proteins, with malt, inoculating the mash with a culture of yeast; adding to the mass a predetermined quantity of corn and soy bean proteins, such proteins being respectively proportioned so as to produce a predetermined ultimate flavor; fermenting the mass and distilling and recovering an aqueous alcoholic concentrate of predetermined and characteristic flavor.

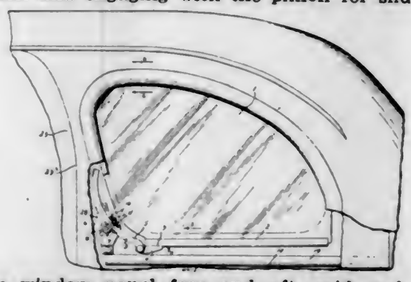
2,160,037
PHOTOELECTRIC RELAY
Francis H. Shepard, Jr., Rutherford, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application June 30, 1937, Serial No. 151,159
2 Claims. (Cl. 250—41.5)



1. A photoelectric relay comprising an alternating current source, an amplifier tube with an anode, a grid, and a cathode, and an alternating current circuit coupled to said source for heating said cathode, a load impedance, said anode and cathode being connected to opposite sides of said source through said impedance, a condenser and a resistor connected in series between said grid and one side of the heating circuit for impressing upon said grid an alternating current voltage, the resistor being connected to said grid, a thermionic amplifier with an anode, grid, cathode, and an alternating current heating circuit for said cathode, the anode-cathode circuit of said amplifier being connected between one side of said source and one end of said resistor, a second resistor and a second condenser connected between the grid and one side of said heating circuit for negatively biasing the grid of said thermionic amplifier, and a photo-tube with its anode connected to said one side of said source and its photocathode connected to the grid of said thermionic amplifier.

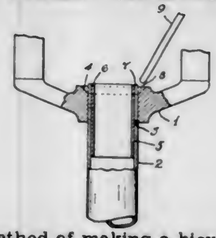
2,160,038
REAR QUARTER WINDOW AND REGULATOR
Emory Glenn Simpson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 12, 1937, Serial No. 142,139
7 Claims. (Cl. 296—44)

1. The combination with a body having a quarter window opening provided with a guide for fore and aft sliding movements, a sliding window panel arranged to move fore and aft in said guide and a window regulator in the form of a driving pinion and a segmental rack arranged to travel in a curvilinear path and pivoted to the window panel and engaging with the pinion for sliding



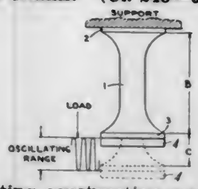
the window panel fore and aft, said rack in passing forward past the pinion retreating up along the forward edge of the window opening.

2,160,039
METHOD OF MAKING BICYCLE FORKS
John M. Singer, Cleveland, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application November 18, 1936, Serial No. 111,464
4 Claims. (Cl. 29—176)



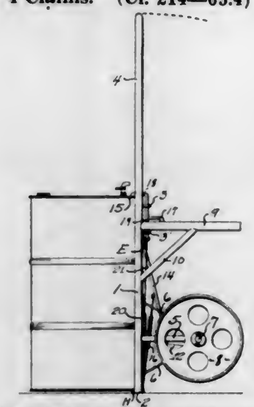
1. The method of making a bicycle fork which comprises providing a fork brace having an opening therein which extends entirely therethrough, inserting a post tube having a tubular reinforcement in one end thereof in such opening in such a manner as to cause portions of said tube and reinforcement to project beyond said opening, and then interfusing said portions of said tube and reinforcement with the adjacent portion of the brace.

2,160,040
RESILIENT MOUNTING
Cheri M. Sloman and Robert A. Merrill, Detroit, Mich., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 16, 1938, Serial No. 190,704
4 Claims. (Cl. 248—358)



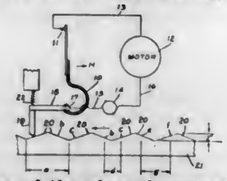
1. A mounting construction comprising a supporting member, a vibrating member, and an interposed supporting body of organic elastic material of the nature of rubber attached thereto, the length of said body of elastic material when under static load being from 75 percent to 300 percent greater than its normal length, and the oscillating range of the body of elastic material being at least in part beyond its loaded length, said body of elastic material having a hardness in the order of from 30 to 50 durometer.

2,160,041
BARREL TRUCK
Ray E. Sooter, Coldwater, Kans.
Application May 14, 1938, Serial No. 208,032
4 Claims. (Cl. 214—65.4)



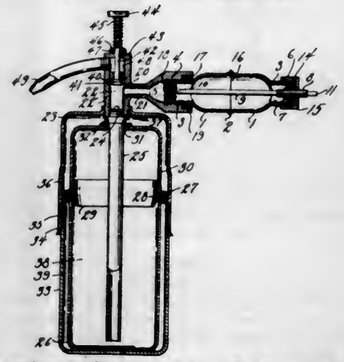
1. In a barrel truck, in combination with a frame, an axle, and wheels to carry the frame, a lever and an arm pivotally connected as a fulcrum bearing, the arm secured to the axle, a bifurcated lifting bar, the legs of the bifurcations varying in length to engage barrels varying in length respectively one end of the bar is pivotally connected to the lever outward from the fulcrum point, means on the frame to slideably engage one leg of the bifurcation, the bifurcated ends of the said lifting bar being pointed to engage with the upper rim of their respective barrels when the said frame and barrel are vertically positioned and in close proximity to each other, and a rockable dual hook element adjustably carried by the frame, the hooks selectively to engage over the chime at the head of the barrel as anchoring means for the upper end of the barrel to the frame, coacting with the lifting bar when the frame is rocked to a horizontal plane carrying the barrel therewith.

2,160,042
MEANS FOR CONTROLLING A PHYSICAL CONDITION
Daniel G. Taylor, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 13, 1933, Serial No. 693,443
3 Claims. (Cl. 236—46)



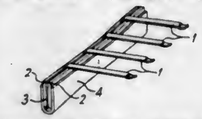
1. A device of the class described, comprising, in combination, a thermostatic member, a contact controlled thereby, a cooperating contact, a supporting member for the cooperating contact, means for adjusting one of said members at predetermined times to obtain day and night settings of the device, a cam for cyclically adjusting the other member within a relatively narrow range several times during the day and night, and a motor for operating the adjusting means and the cam.

2,160,043
FLUID CHARGING OF FOODS AND BEVERAGES
William B. Threm, Toledo, Ohio
Application December 28, 1937, Serial No. 182,138
5 Claims. (Cl. 221—74)



1. A primary high pressure fluid container including a valve fully operative therewith for opening and closing as desired, a secondary receiver for material to be pressure expelled therefrom, said secondary receiver including a cup, a cap for the cup, a tube, a closure mounting the tube to extend through the cap into the cup for pressure applying the cap into sealing relation with the cup, there being a fitting on the closure for the primary container to deliver fluid into the tube, a delivery spout from the closure, and a valve controlling flow from the cup through the tube for discharge by the spout.

2,160,044
ELECTRODE SPACER
Geoffrey William Warren, Wembley, England, assignor to M-O Valve Company, Limited, London, England
Application January 25, 1939, Serial No. 252,756
In Great Britain January 27, 1938
4 Claims. (Cl. 250—27.5)

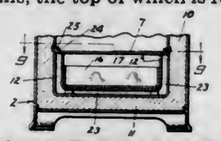


1. An electron discharge device comprising an electrode assembly with a filamentary cathode extending longitudinally through the electrodes, means for engaging one end of the filament at one end of assembly comprising a strip of metal U-shaped in cross section joined at its ends to said assembly, strips of yieldable insulating material within said metal strip, a hook held at one end between said insulating strips and engaging the filament at the other end.

2,160,045
REFRIGERATING UNIT
Frank R. West, Detroit, Mich.
Application May 21, 1935, Serial No. 22,564
3 Claims. (Cl. 62—89)

1. A domestic refrigerating unit having a cabinet with conventional insulated walls, a main food

compartment defined by a liner, a cooling unit positioned to cause circulation of air within the main compartment, a closure for said main compartment, a relatively flat auxiliary compartment for small commonly used foods positioned directly adjacent said main compartment and comprising a double walled liner having air spaces between the walls, the top of which is formed by the



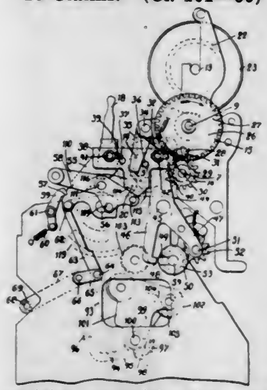
bottom of said main liner, said auxiliary compartment being sealed from said main compartment, said main liner having openings leading to said air spaces whereby cooling of said auxiliary compartment is by conduction through a portion of the bottom of said main liner and by circulation of air from the main compartment through said openings around said auxiliary compartment.

2,160,046

REGISTER

Albert S. Wheelbarger and William G. Orth, Dayton, Ohio, assignors, by mesne assignments, to Central National Bank of Cleveland, Cleveland, Ohio

Application August 1, 1935, Serial No. 34,120
16 Claims. (Cl. 101—66)



1. In a register comprising two separately operable printing mechanisms and a manually operable element, means including a movable member to render one of said printing mechanisms operative and the other printing mechanism inoperative, means for imparting operative movement to said movable member in either of two directions, a positioning member acting on said movable member to control the direction of its movement by the last mentioned means, and an operative connection between said positioning member and said manually operable member.

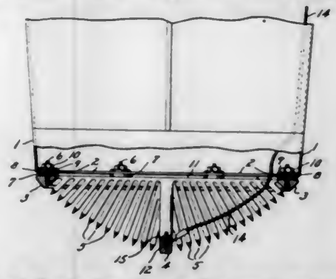
2,160,047

RADIO ANTENNA FOR AUTOMOBILES

Eugene I. Wiggins, Flint, Mich.

Application October 29, 1936, Serial No. 108,177
1 Claim. (Cl. 250—33)

In a radio antenna for an automobile having a radio receiving set and a radiator shell provided with an inturned peripheral flange, a grille of electrically conductive metal provided with a rim portion and a central rib portion extending across and formed integrally with the rim portion, a series of grille bars extending across the rim portion in substantially the same direction as the central rib and formed integrally with the rim portion, a series of studs extending from the rim portion of the grille, the inturned flange of the radiator shell being apertured to receive the studs, insulators mounted on the studs arranged to insulate the grille from said inturned



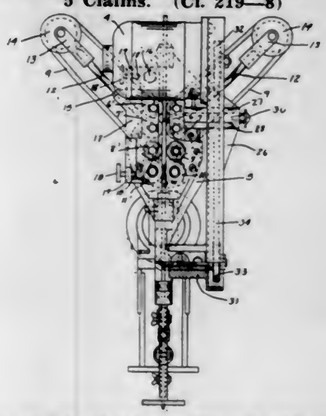
flange and spacing the grille from the radiator shell, a series of nuts threaded onto the studs, insulating washers fitting over the studs between the nuts and said inturned flange whereby turning up of the nuts will secure the grille to the flange and a shielded insulated lead in wire electrically connected to the central rib of the grille and to the in-put of the automobile radio receiving set.

2,160,048

UNIVERSAL WELDING HEAD

Allen Dale Wiley and William H. Franzmann, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application May 14, 1937, Serial No. 142,680
5 Claims. (Cl. 219—8)



1. An oscillating electric welding head comprising a frame, a feeding motor mounted on said frame for reciprocal movement, and means for oscillating said head as a unit by causing reciprocating movement of said feeding motor.

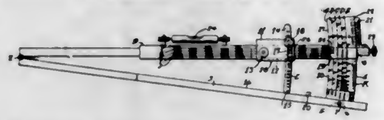
4. An electric welding head comprising a device having only a feeding function, said device comprising a series of pulleys and V-belts made from non-conducting material running on said pulleys, said pulleys being arranged to provide parallel flights of said belts over a substantial length of the welding rod being fed, and means for driving at least a pair of said pulleys and a contacting device, said contacting device being located relatively near the welding area and said feeding device being relatively far removed therefrom.

2,160,049

APPARATUS FOR SETTING SUPERELEVATIONS FOR CURVES OF VARIOUS RADII AND SPEEDS FOR HIGHWAYS AND RAILROADS

Frederick E. Willson, Santa Barbara, Calif.

Application January 23, 1937, Serial No. 122,040
6 Claims. (Cl. 33—75)



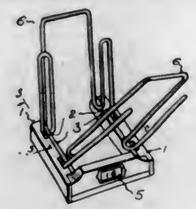
1. A device of the type described comprising an arm having scales thereon indicating curves of different radii, a second arm pivoted to the first and having an arcuate segment with scales thereon indicating miles per hour, the scales on the segment being used in connection with the scales on the first arm to show the speed at which a vehicle can move around a given curve in perfect equilibrium, and the first arm being movable over the scales on the segment.

2,160,050

MERCHANDISE DISPLAY RACK

Morris A. Wolf, Dallas, Tex.

Application February 8, 1939, Serial No. 255,312
5 Claims. (Cl. 211—13)



1. A merchandise display rack including a base portion, a plurality of individual units hingedly mounted on said base portion, each unit being adapted to be swung forwardly or rearwardly to display the front and rear portions of merchandise upon said units, and means on said base adapted to coact with said units for holding the same in spaced apart relation throughout at both limits of their swinging movement whereby merchandise on each unit may be maintained out of contact with merchandise on the adjacent unit in both the forward and rearward positions of the units.

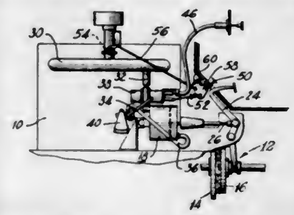
2,160,051

CLUTCH CONTROL MECHANISM

George O. Ainsworth, Detroit, Mich., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana

Application November 7, 1935, Serial No. 48,727
6 Claims. (Cl. 192—.01)

1. In an automotive vehicle provided with a clutch including driving and driven members, a unitary power means for both disengaging the clutch and controlling the engagement thereof, said power means comprising a pressure differential operated motor, valve means for controlling the clutch engaging operation of said motor including a plurality of inertia operated valve mem-



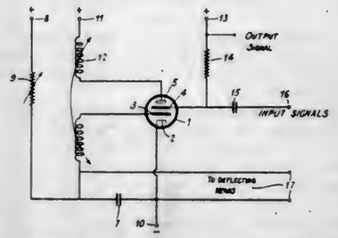
bers automatically operable at predetermined accelerations of the vehicle to vary the rate of clutch engagement.

2,160,052

ELECTRICAL OSCILLATION GENERATOR

George Baldwin Banks, London, England, assignor to Radio Corporation of America, a corporation of Delaware

Application July 24, 1936, Serial No. 92,322
In Great Britain August 2, 1935
2 Claims. (Cl. 250—36)



1. An apparatus for producing potentials of a serrated wave form comprising a vacuum tube having cathode, anode, control, and screen electrodes, inductive means connected between the anode and cathode of said tube, inductive means connected between the control electrode and cathode of said tube and coupled to the first-named inductive means, electrical storage means connected directly to the cathode of the vacuum tube on one side and serially connected in the control electrode circuit of the tube, a variable resistor, a source of direct current electric potential, a series circuit including said variable resistor and said direct current source of electric potential connected across the electrical storage means, means for coupling a source of signal potentials to the screen electrode and a load circuit connected to the screen electrode.

2,160,053

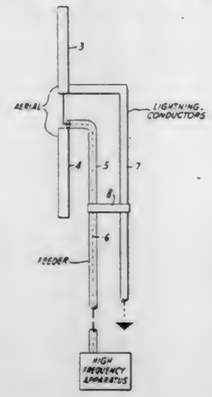
WIRELESS AERIAL SYSTEM

Kenneth Heyward Barbour, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a British company

Application February 25, 1937, Serial No. 127,632
In Great Britain March 3, 1936
4 Claims. (Cl. 250—33)

1. An aerial system including a vertical dipole aerial and comprising a concentric feeder and a lightning conductor, the lightning conductor being connected to the sheath of said concentric feeder at a predetermined position along its length so as to function as an auxiliary conductor forming a part of a tuned rejector circuit, the

height of one end of the lightning conductor being at least as great as that of any part of the

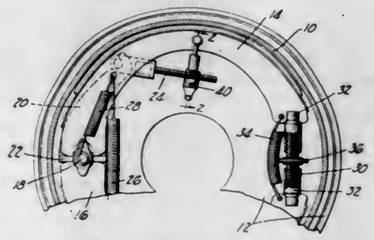


aerial and the other end of said conductor being separately grounded.

2,160,054
POLYMERIZATION PROCESS
Walter Bauer and Hellmuth Lauth, Darmstadt, Germany, assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 23, 1933, Serial No. 662,256. In Germany March 23, 1932
2 Claims. (Cl. 260—84)

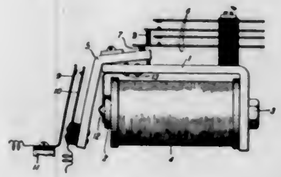
1. The process of preparing porous and voluminous polymers from a member of the group consisting of acrylic acid, homologs of acrylic acid, nitriles of acrylic acid, alkyl esters of acrylic acid and homologs of acrylic acid wherein the alcohol group contains at least two carbon atoms less than the acid group, and mixtures thereof, which comprises forming a solution of a member of said group in paraffin oil containing an organic peroxide catalyst, heating said solution to bring about polymerization of the dissolved material and extracting the paraffin oil from the mass thus formed by means of a liquid in which the paraffin oil is soluble but which is a non-solvent for the polymer.

2,160,055
BRAKE
Kemper P. Brace, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application June 5, 1937, Serial No. 146,583
5 Claims. (Cl. 188—79.5)



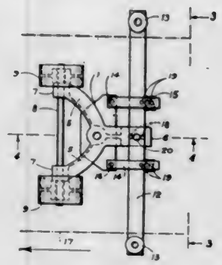
1. An automatically adjustable device constructed and arranged to be acted on by a brake shoe or the like and comprising a cylinder having arranged therein a plunger having a predetermined free lost motion relatively to the cylinder corresponding to the desired maximum applying movement of said shoe and having connecting means, and connecting means frictionally gripping the surface of said cylinder, one of said connecting means being adapted to be connected to a brake shoe and the other being adapted to be connected to a backing plate.

2,160,056
RELAY
Walter Brandt, Vienna, Austria, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 7, 1937, Serial No. 119,428
In Austria March 23, 1936
8 Claims. (Cl. 200—104)



1. A relay having a winding and an armature, contact springs operable by said armature in response to the excitation of said winding by direct current, and a set of resonant springs operable into engagement in response to the excitation of said winding by alternating current of a definite frequency but inoperable in response to the excitation of said winding by direct current.

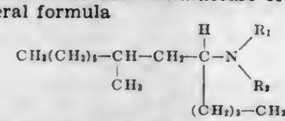
2,160,057
CONVEYER ALIGNING DEVICE
Vaughn F. Carus and Donald D. Alexander, Saginaw, Mich., assignors, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York
Application September 22, 1937, Serial No. 165,164
4 Claims. (Cl. 198—202)



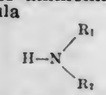
1. A conveyer aligning device comprising a wheel for engaging a surface of a conveyer, a frame for supporting said wheel, a support for said frame, a pivotal connection between said frame and said support, said pivotal connection being off-set from the axis of said wheel, a shift bar pivotally connected to said wheel supporting frame and engageable by said conveyer when it moves laterally to swing said wheels in an arc to cause said conveyer to return to its normal medial position and retain it there, and a parallel link connection between said support and said shift bar.

2,160,058
PROCESS FOR PREPARING HEXADECYL AMINES
Lloyd W. Covert, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 26, 1938, Serial No. 198,227
12 Claims. (Cl. 260—583)

4. A process for the manufacture of amines of the general formula

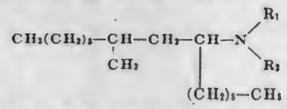


which comprises reacting together a member of the group consisting of dicapryl alcohol and 9-methyl-pentadecanone-7 and a member of the group consisting of ammonia and an amine of the general formula



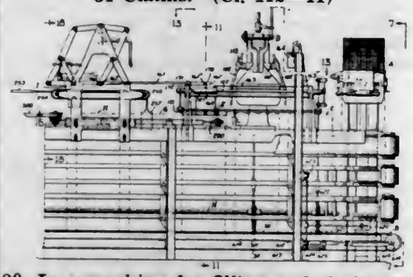
in which R_1 and R_2 are selected from the group consisting of hydrogen, lower alkyl groups, lower alkylol groups, the phenyl and benzyl groups in the presence of hydrogen and a hydrogenating-dehydrogenating catalyst.

12. Amines of the general formula



in which R_1 and R_2 are selected from the group consisting of hydrogen, lower alkyl groups, lower alkylol groups, the phenyl and benzyl groups.

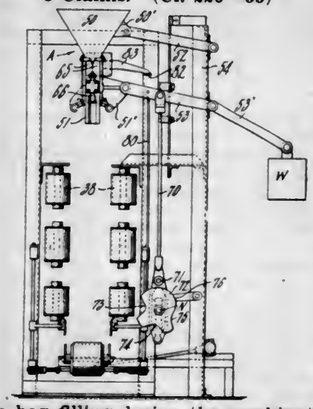
2,160,059
APPARATUS FOR CLOSING, SEWING, AND SEALING BAGS
Robert N. Cundall, Lackawanna, N. Y., assignor to Bagpak, Inc., a corporation of Delaware
Application November 2, 1932, Serial No. 640,758
31 Claims. (Cl. 112—11)



20. In a machine for filling and closing open-mouth bags; means for conveying the filled bags in series, a sewing machine pivotally mounted in the path of the conveyed bags, said sewing machine being so mounted as to be capable of reciprocatory, rocking motion in the direction of the conveyor path, means whereby such reciprocatory motion is synchronized with the sewing action of the machine, and means on said conveyor for rigidly holding the bag mouths closed and in line with said sewing machine.

30. In a filled bag closing machine, a sewing head mounted in the path of the bags, a conveyor and means to operate said conveyor intermittently to advance the bags into proper relationship with said sewing head in movements of sinusoidal acceleration and deceleration, the periods of movement being of shorter duration than the intervening periods of rest, means for causing said sewing head to traverse the bags in uniform movement during the periods of rest in order to close the bags, and means for returning the sewing head to its starting position during the periods of movement in movements of sinusoidal acceleration and deceleration synchronized with said conveyor.

2,160,060
APPARATUS FOR FILLING BAGS
Robert N. Cundall, deceased, late of Lackawanna, N. Y., by Luta L. Cundall, administratrix, Lackawanna, N. Y., assignor to Bagpak, Inc., New York, N. Y., a corporation of Delaware
Original application November 2, 1932, Serial No. 640,758. Divided and this application September 9, 1937, Serial No. 163,045
3 Claims. (Cl. 226—55)



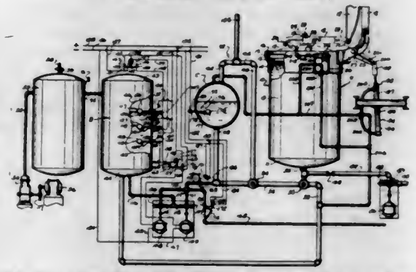
1. In a bag-filling device, the combination of a spout adapted to enter the mouth of a bag, a vertically movable clamping device for suspending a bag into the mouth of which said spout has been inserted, a cam, means for rotating said cam, means operatively connected with said clamping device adapted for movement into a position for cooperation with said cam to produce a vertical jogging movement of said clamping device and the bag suspended therefrom as the bag fills, and a device maintaining said last-named means out of cooperative position with said cam until said bag has been filled to an extent sufficient to overcome said last-named device and to move said last-named means into cooperative position with said cam.

2,160,061
VINYL RESIN COATINGS AND PROCESS PRODUCING THE SAME
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application December 12, 1936, Serial No. 115,531
6 Claims. (Cl. 260—86)

1. A vinyl resin composition for coating metal surfaces of iron and tin-plate, comprising as the essential film-forming ingredient, a resin resulting from the conjoint polymerization of vinyl chloride and vinyl acetate, together with a stabilizer material comprising a member of the group consisting of acid phosphates and sulfides, said stabilizer being adapted to react with the

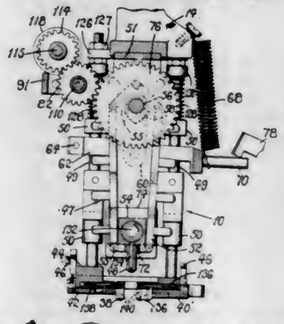
metal surface to form a film thereon which is non-reactive with thermal decomposition products of said resin.

2,160,062
PRESSURE SYSTEM
John L. Drake, Le Roy L. Handy, and Ival G. Fowler, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application March 6, 1936, Serial No. 67,464
14 Claims. (Cl. 23—290)



14. In a pressure system, an autoclave adapted to be filled with liquid and within which work to be treated is received, a closure means for said autoclave, an auxiliary tank connected with the autoclave and containing liquid backed up by an elastic fluid under pressure, means for establishing communication between the autoclave and auxiliary tank to cause the elastic fluid within said auxiliary tank, acting through the liquid therein, to exert pressure upon the liquid in the autoclave and for subsequently cutting off such communication when it is desired to release the pressure in the autoclave, means for opening and closing said closure means, hydraulic operating means associated with the pressure system and operable by liquid therefrom for actuating the said closure opening and closing means, means for turning the closure means to effect the locking and unlocking thereof when in closed position, and hydraulic operating means associated with the pressure system and operable by liquid therefrom for actuating the closure turning means.

2,160,063
MARKING MACHINE
Newell V. Dyer, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 6, 1936, Serial No. 89,165
22 Claims. (Cl. 101—21)

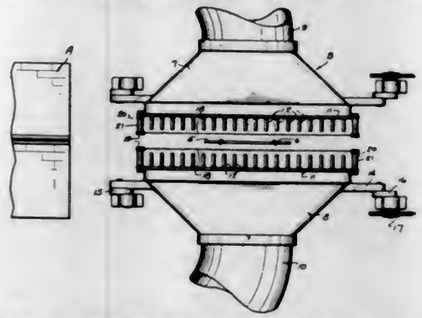


1. In a marking machine, a chain of rigid articulated type members, resetting means therefor, a support having a seat adapted to be enveloped by a plurality of type members looped about said support, means acting upon said resetting means to tension said chain whereby a selected type member is held in operative position against said seat, and means for releasing the tension on the chain whereby the chain may be adjusted to move a different type member into operative position.

2,160,064
MANUFACTURE OF FORMIC ACID
James F. Eversole, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application June 17, 1936, Serial No. 85,664
16 Claims. (Cl. 260—542)

1. The cyclic process which comprises hydrolyzing methyl formate in a hydrolyzing zone in the presence of an inorganic hydrolysis catalyst, thereby producing formic acid and methanol, continuously distilling unreacted methyl formate and methanol from the hydrolyzing zone, conducting the dilute formic acid solution containing the catalyst to a first distillation zone, distilling the said solution therein under a pressure sufficiently high to vaporize water and to form a catalyst-containing liquid mixture enriched in formic acid, removing the vaporized water, conducting the said enriched liquid mixture to a second distillation zone maintained at a pressure and temperature substantially below those existing in the first distillation zone, thereby vaporizing substantially pure formic acid and producing an approximately azeotropic liquid mixture containing more of said catalyst and less formic acid than is present in the liquid mixture produced in the first distillation zone, separately recovering the formic acid thus vaporized, and conducting the liquid mixtures formed in each of the respective distillation zones to the other of the said zones and distilling the same therein.

2,160,065
APPARATUS FOR TEMPERING GLASS
George R. Ford, Jr., Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application August 19, 1937, Serial No. 159,890
6 Claims. (Cl. 49—45)



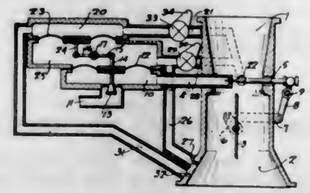
1. In apparatus for use in the tempering of glass sheets, wherein the sheet is first heated to approximately the softening point of the glass and then suddenly cooled, means for cooling the sheet including spaced blower heads for receiving the heated sheet therebetween, and a reticular guard shield arranged between each blower head and the glass sheet and out of contact with the latter for preventing the sheet from striking the blower head during the cooling operation.

2,160,066
SOUNDPROOFING CONSTRUCTION
Carl A. Frische, Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application November 16, 1935. Serial No. 50,100
12 Claims. (Cl. 20—4)



6. A sound proofing construction unit comprising a frame member, a double diaphragm carried by said frame member, the diaphragms of said double diaphragm being mutually spaced and acoustically coupled, felted material attached to said diaphragms for loading the latter, said diaphragms being differentially stretched, whereby the frequencies of maximum sound absorption of said diaphragms differ.

2,160,067
CARBURETOR
Paul Xavier Auguste Gistucci, Paris, and Johann Lichtenstein, Levallois-Perret, France, assignors to Societe Generale Des Carburateurs Zenith, Levallois-Perret (Seine), France, a corporation of Switzerland
Application June 24, 1936, Serial No. 87,094
In Belgium August 24, 1935
9 Claims. (Cl. 261—69)



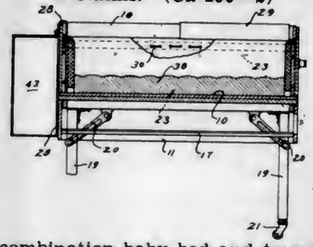
1. In a charge forming device for an internal combustion engine, an induction passage, a throttle controlling the same, a fuel nozzle discharging in said induction passage posterior to the throttle valve, a fuel chamber connected to said nozzle and having a movable wall, a valve controlling the inflow of fuel to said chamber and connected to said movable wall, a depression chamber having a movable wall connected to the first mentioned movable wall, a depression conduit connecting the depression chamber to the induction passage posterior to the throttle, a second conduit connecting the depression chamber to the induction passage anterior to the throttle, and means operated in accordance with throttle position for varying the cross section of one of said conduits.

2,160,068
WINDOW MOUNTING
Otto F. Graebner and Fred J. Westrope, Detroit, Mich., assignors to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application October 10, 1936, Serial No. 104,926
3 Claims. (Cl. 296—84)



1. A molding strip for mounting a resilient window receiving channel adjacent an upstanding flange said molding strip having one edge thereof bent to provide a channel adapted to receive said flange and the other edge thereof being bent to provide a flange adapted to engage the inner surface of one leg of said resilient channel element.

2,160,069
CONVERTIBLE TRAVELING CASE AND BABY BED
Sara B. Hawkins, Birmingham, Ala.
Application April 19, 1937, Serial No. 137,751
2 Claims. (Cl. 190—2)

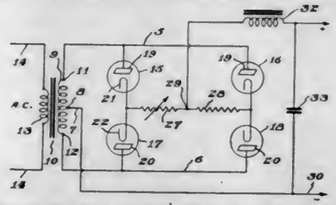


1. A combination baby bed and traveling case comprising a body portion and a lid detachable from the body portion, legs hingedly mounted in the lid portion to fold inwardly across the ends thereof leaving the intermediate portion of the interior of the lid free, interfitting means on the outer corners of the lid and the body portion adapted to hold the lid and body in inverted positions to form a bed, and latch means included in the interfitting means.

2,160,070
RECTIFIER SYSTEM
Leo J. Hruska, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 24, 1937, Serial No. 150,083
1 Claim. (Cl. 175—363)

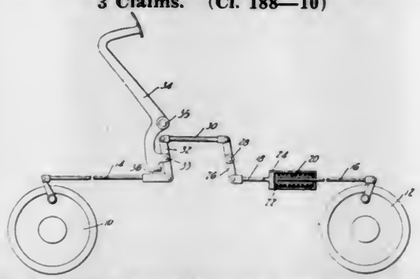
In a full wave rectifier, the combination of alternating current transformer means having a balanced secondary circuit providing two output terminals and a balanced intermediate terminal, a pair of electric discharge rectifiers having anodes connected with one of said output terminals and cathodes connected together, for passing current in parallel during one half cycle of the secondary current, a second pair of electric discharge rectifiers having anodes connected with the other of said output terminals and cath-

odes connected together for passing current in parallel during the other half cycle of the secondary current, the cathode connection for the first pair of rectifiers being common to the cathode connection for the second pair of rectifiers and including a common series impedance means having a balanced intermediate terminal, said



impedance means comprising a pair of substantially equal resistor devices connected in series, one of said devices being variable and said last named intermediate terminal being provided at the junction of said resistor devices, and means providing an output circuit connection with each of said intermediate terminals.

2,160,071
BRAKE
John Samuel Irving, Birmingham, England, assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application April 14, 1937, Serial No. 136,933
In Great Britain April 25, 1936
3 Claims. (Cl. 188—10)



1. A vehicle having front and rear brakes, substantially unyielding connections for operating the front brakes, connections for operating the rear brakes including means yielding upon the application of a predetermined force thereto, an equalizing device connected to operate both front and rear connections and driver-operated means for operating the equalizing device and which means is provided with a stop for limiting the equalizing action thereof whereby front braking may, after a predetermined force, be increased without the operation of said equalizing device as an equalizer and without any substantial increase in rear braking.

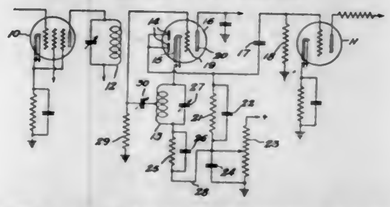
2,160,072
PRESERVING CAN OR CONTAINER
Heinrich Karl, Jersey City, N. J.
Application October 22, 1936, Serial No. 107,044
2 Claims. (Cl. 229—5.5)

1. A can or container, the top and bottom made of fibrous material and the body made of sheet metal, metallic crimped joint parts formed by extensions of said body gripping the edge parts of the top and bottom, respectively, and these metallic joint parts being so shaped as to permit the compression from two opposite points, located exteriorly of the can or container and thereby permitting the raw cut edges of the joint parts



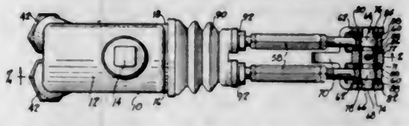
to penetrate the fibrous material of the top and bottom, respectively.

2,160,073
REDUCTION OF NOISE
Winfield R. Koch, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1936, Serial No. 77,133
6 Claims. (Cl. 250—20)



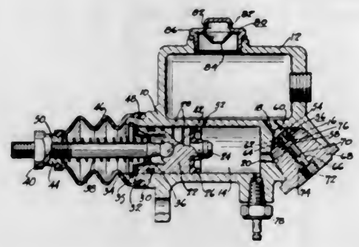
1. The combination of a signal channel, an electron discharge device provided with detector electrodes including a cathode and with a grid and anode operatively associated with said cathode, a resistor common to the detector and anode circuits of said device providing a positive voltage on the cathode with respect to the anode for interrupting the operation of said detector circuit in response to impulses of a predetermined range of amplitudes.

2,160,074
EQUALIZING MEANS FOR HYDRAULIC BRAKES
Ludger E. La Brie, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application August 1, 1935, Serial No. 34,162
5 Claims. (Cl. 60—54.5)



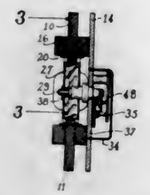
1. A dual master cylinder having two cylinder bores and pistons, a discharge port from each cylinder bore leading to an enlarged cylindrical chamber, a diaphragm in said chamber, a filler block filling said chamber, and a plug holding said diaphragm and block in position, said block having a plurality of ports therethru near the periphery thereof.

2,160,075
MASTER CYLINDER FOR HYDRAULIC BRAKES
Ludger E. La Brie, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application September 9, 1935, Serial No. 39,735
4 Claims. (Cl. 60—54.6)



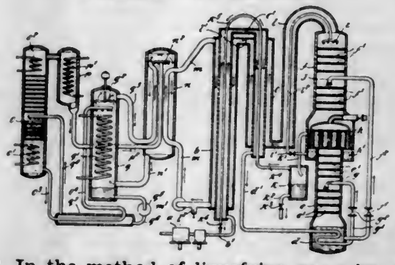
1. A hydraulic brake master cylinder comprising a casing having a reservoir in the top thereof and a cylinder bore therebelow, and a valve chamber of cylindrical shape with a conical upper end diagonally arranged beneath said reservoir and beyond the end of said cylinder bore, said valve chamber having a port from the conical end of the chamber to said reservoir and having a second port by which it is connected to the cylinder bore, a plug threaded into said chamber having a central discharge port, and a valve adapted to seat on said conical end and having a fluted stem slidable in said discharge port.

2,160,076
SYNCHRONOUS MOTOR
Frederick Lux, Waterbury, Conn., assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a corporation of Connecticut
Application August 10, 1936, Serial No. 95,090
8 Claims. (Cl. 172—278)



1. A self-starting synchronous motor of the hysteresis type having a stator provided with shaded and unshaded poles for producing a pulsating and shifting field, bridge members between said poles carrying the flux of the shaded poles, a rotor operating in said field made wholly of remanent magnetic material whereby magnetized spots are produced therein, said rotor being of hollow cylindrical form, the remanence of the material of the rotor offering resistance to the shifting of said spots, and said rotor being provided with an annular series of openings between the edges thereof to additionally limit the shifting of said spots, said openings comprising closed helically arranged slots extending in a generally axial direction.

2,160,077
PRODUCTION OF LIQUID AIR, AND THE PRODUCTION OF OXYGEN THEREFROM, AND THE LIQUEFACTION AND SEPARATION OF OTHER GASES
Guido Maiuri, London, England
Application September 9, 1936, Serial No. 99,902
In Great Britain September 18, 1935
3 Claims. (Cl. 62—175.5)



2. In the method of liquefying gases by compressing and expanding gas and cooling said compressed gas by contra-flow heat-exchange with the expanded gas, precooling an inert gas by contra-flow heat-exchange with a preceding portion of such inert gas and a refrigerant evaporated thereinto, evaporating further refrigerant under increasing partial pressures of refrigerant and over a range of increasing temperatures into said precooled inert gas, and cooling at least a portion of said compressed gas by absorption of heat therefrom at temperatures along said range of temperatures by said precooled inert gas and said refrigerant evaporating thereinto under said increasing partial pressures.

2,160,078
GARMENT
Milton Mayer, New York, N. Y., assignor to Vanity Corset Co., New York, N. Y., a corporation of New York
Application December 21, 1938, Serial No. 247,028
7 Claims. (Cl. 2—30)



1. A garment of the corset type having a body which is provided with separated breast-receiving pockets at the upper end of said body, said body having a non-elastic front portion which has a vertical opening which extends downwardly from the upper end of said panel, said body also having elastic side panels, the bottom end of said opening being spaced from the bottom edge of the garment, said pockets being located above said front panel, said opening being located substantially centrally in said front portion, the edge walls of said opening having coacting fastening means, brassière members located partially above and

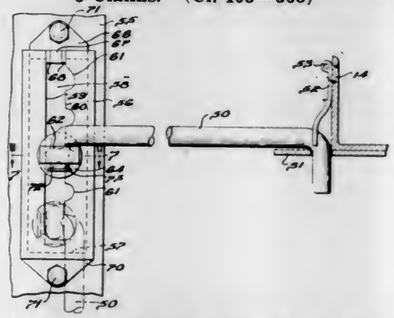
partially below the top end of said opening, said brassière members being connected respectively to the non-elastic front portion along upstanding lines which are spaced laterally from said opening, said upstanding lines being spaced laterally inwardly from the elastic side panels, concave parts of the respective edges of said brassière members being connected to convex parts of the edges of said pockets above the top of said panel, the separable adjacent edges of said brassière members substantially overlying the edge-walls of the opening of the front panel when said adjacent edges are connected to each other, said adjacent edges having fastening means adapted to connect said edges separably so as to make a butt-joint, said brassière members being made of elastic material.

2,160,079

CAR LOADING DEVICE

Sulo M. Nampa, Detroit, Mich., assignor to The Worth Company, a corporation of Michigan

Application January 2, 1936, Serial No. 57,206
5 Claims. (Cl. 105—368)



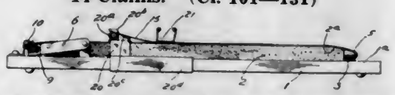
1. An adjustable eye mounting for an anti-side sway hook comprising a slotted plate, an eye having a shank engaged in said slot and having shoulders on opposite sides of said plate for retaining the eye member in engagement therewith, said shank having one diameter slightly less than the width of said slot and another diameter at right angles to the first mentioned diameter substantially greater than the width of said slot, and said slot having notches in one side for the reception of said shank when its greatest diameter is perpendicular to said slot.

2,160,080

DUPLICATING MACHINE

Ingwald M. Newgard, Glendale, Calif., assignor, by mesne assignments, to Gel-Sten, Incorporated, Wilmington, Del., a corporation of Delaware

Application April 22, 1935, Serial No. 17,630
Renewed February 6, 1939
14 Claims. (Cl. 101—131)



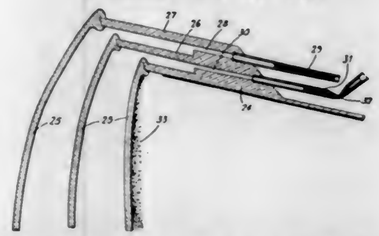
1. A flat base equipped with a raised resilient pad, a flexible gelatinous printing medium, means at the ends of said pad for receiving the ends of said medium, one of said receiving means being movable to stretch the medium across the said pad, the pad becoming increasingly compressed towards the ends as the film is stretched thereby to maintain the film under tension, and interengaging means embodied in said receiving means and in the ends of the said printing medium for correctly alining the latter in the former.

2,160,081

ELECTRON DISCHARGE TUBE

Hans Niclassen, Berlin, Germany, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application October 25, 1935, Serial No. 46,714
In Germany October 29, 1934
6 Claims. (Cl. 250—164)



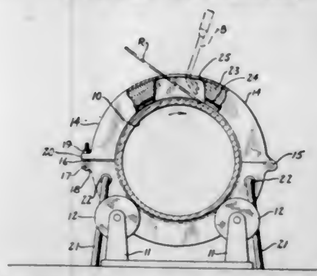
1. An electron discharge tube having an elongated evacuated envelope having at one end thereof a plurality of successive walls forming compartments between the walls, said successive walls being curved, the pressure in the compartments increasing from the interior of the envelope to the outside wall, the radius of the curvature of each successive wall being less in advancing from interior to the exterior of the tube and a luminescent coating adjacent the inside surface of the innermost successive wall.

2,160,082

APPARATUS AND PROCESS FOR WELDING PIPE

James G. Nicolson, Niagara Falls, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application June 8, 1935, Serial No. 25,562
4 Claims. (Cl. 113—111)



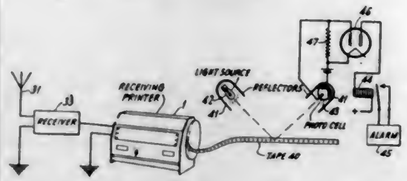
1. A method of producing an annealed weld between two cylindrical metal sections in end to end relation which comprises enclosing substantially the entire outer circumference of the seam formed by the contiguous ends of said sections; rotating said sections in unison about their common longitudinal axis while their contiguous ends are so enclosed; and applying a welding flame against said ends and in the general direction of such rotation so that the rotating sections will cause said flame and heat therefrom to follow such enclosed ends in the direction of such rotation and keep the completed weld at a substantially uniform temperature throughout the welding operation.

2,160,083

IDLE TIME KEYING

Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application December 23, 1933, Serial No. 703,783, now Patent No. 2,055,985, dated September 25, 1936. Divided and this application March 26, 1937, Serial No. 133,136
2 Claims. (Cl. 178—66)



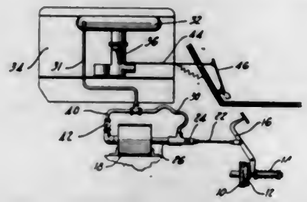
1. In combination, a printer, tape having letters printed thereon by said printer, said printer being operated by signals received from an external source, a light source positioned immediately adjacent said printer for illuminating said type, a photo-cell arranged to receive the reflected illumination from said light source, an electron discharge device amplifier in circuit with said photocell and arranged to pass current upon the receipt of said photocell of a predetermined amount of reflected illumination from said tape, an output circuit for said discharge device including a relay, an indicator, said relay being arranged to actuate said indicator when said photocell receives less than said predetermined amount of reflected illumination, whereby correct operation of said printer and contact of said printer with said external source of signals may be observed.

2,160,084

CLUTCH CONTROL MECHANISM

Harold W. Price and Earl R. Price, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application January 5, 1934, Serial No. 705,410
11 Claims. (Cl. 192—.01)



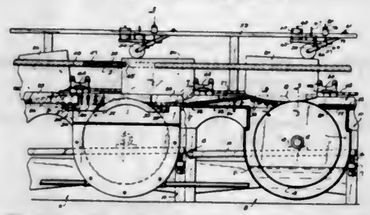
1. Clutch control mechanism for an automotive vehicle provided with a clutch, manually operable means for operating the clutch, an intake manifold and a throttle, a clutch operating motor operably connected with the clutch to assist in the disengagement thereof, an unvented fluid transmitting connection interconnecting said motor and manifold, a two-way valve means incorporated in said connection, means interconnecting said valve and manually operable means, said valve being operative to control the clutch disengaging operation of said motor and in part to control the clutch engaging operation of said motor.

2,160,085

GLASS EDGING MACHINE

William J. Robertson, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application April 10, 1936, Serial No. 73,632
11 Claims. (Cl. 51—74)



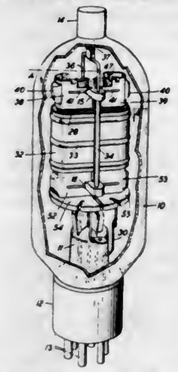
1. The combination with a driven grinding wheel having a groove in its periphery and mounted for rotation about a horizontal axis, of a runway leading to and from the wheel and adapted to support a sheet to be ground on edge, means for moving said sheet over the runway and grinding wheel, pressure means engaging the upper edge of the sheet for maintaining the lower edge thereof in engagement with the grinding wheel including a rotatable roller, means for mounting said roller for free vertical movement, and means for limiting the downward movement of the roller, said roller being adjustable bodily horizontally with respect to said grinding wheel.

2,160,086

ELECTRON DISCHARGE DEVICE

Victor L. Ronci, Brooklyn, and John W. West, Woodside, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

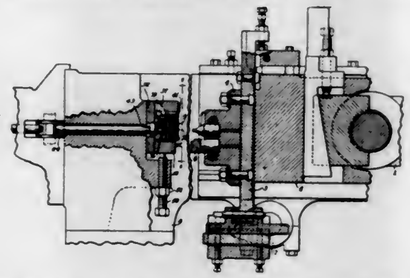
Application December 5, 1936, Serial No. 114,378
11 Claims. (Cl. 250—27.5)



11. An electron discharge device comprising an enclosing vessel having a stem, an electrode unit within said vessel, said unit including a cathode, a plurality of grids, and an anode, cross-shaped insulators at opposite ends of said unit, extensions for said cathode and said grids located in the linear arms of said insulators, extensions for said anode located in the transverse arms of said insulators, leading-in conductors in said stem connected to said cathode and said grids, a conductor for said anode extending through the top of said vessel, U-shaped metallic shields surrounding the linear arms of said insulators and portions of said grids, said shields having extensions seated in the transverse arms of said

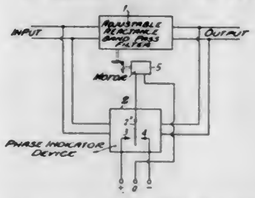
insulators, internal metallic fins on said shields at the upper end of said vessel, metallic cap shields enclosing the extensions of said grids and supported by said U-shaped shields, and a semi-circular disc shield extending outwardly from each of said U-shaped shields intermediate said stem and said unit.

2,160,087
METHOD AND MACHINE FOR MAKING CAPPED NUT BLANKS
Heyman Rosenberg, New York, N. Y.
Application August 13, 1937, Serial No. 158,838
15 Claims. (Cl. 10—76)



5. In a machine for die-forming capped nut blanks from slugs of metal, in combination, means for feeding a wire into the machine, means for severing a slug from the wire, a matrix die having a bore of non-cylindrical contour, means for placing the slug in the matrix die, and means for converting the slug into a capped nut blank at a single operation, comprising a dome-forming die, a bore-forming plunger, and means for operating said dome-forming die and bore-forming plunger against the blank simultaneously from opposite directions to compel the portion of the blank surrounding the mouth of the plunger-formed bore to assume an external configuration corresponding to that of the bore of the matrix die.

2,160,088
BAND PASS FILTER
Wilhelm Runge, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 8, 1934, Serial No. 752,022
In Germany November 9, 1933
6 Claims. (Cl. 178—44)



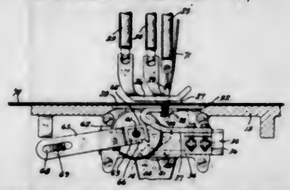
2. A band-pass transmission circuit including a filter having reactive impedance elements at least one of which is variable to vary the normal frequency of said circuit, an input and an output for said circuit, a phase indicator connected between said input and output, and mechanical means actuated thereby for varying said variable element.

2,160,089
AIRPLANE
George S. Schairer, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application February 12, 1937, Serial No. 125,438
3 Claims. (Cl. 244—83)



2. In an aircraft having a fuselage, supporting wing means, connecting means between the fuselage and the wing means comprising spaced supports carried by the fuselage, longitudinally extending slides carried by the wing means, the outer ends of the slides being positioned nearer the leading edge of the wing than the inner ends of the slides, and manually operated means to move the slides with reference to the supports to shift the wing laterally with reference to the fuselage and to oscillate the wing with reference to the fuselage to control the craft laterally.

2,160,090
TUFTING ATTACHMENT FOR SEWING MACHINES
William F. Schmiedel, Oshkosh, Wis., assignor to Deltox Rug Company, Oshkosh, Wis., a corporation of Wisconsin
Application May 14, 1937, Serial No. 142,534
1 Claim. (Cl. 112—79)

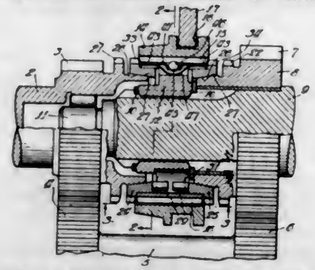


In a sewing machine tufting attachment wherein the machine has a reciprocating needle and the attachment includes a reciprocating looper and a revoluble circular cutter mounted on a normally fixed axis toward which the looper is reciprocated, an adjustable mounting for the cutter comprising a supporting member, an arm having its outer end angularly and longitudinally adjustably mounted on the supporting member, a bearing block adjustably secured in the inner end of said arm, and a driven cutter shaft journaled in said bearing block, the circular cutter being mounted on said shaft to turn therewith and being axially adjustable on said shaft.

2,160,091
TRANSMISSION SYNCHRONIZER
John M. Simpson and Samuel O. White, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 11, 1937, Serial No. 168,401
13 Claims. (Cl. 192—53)

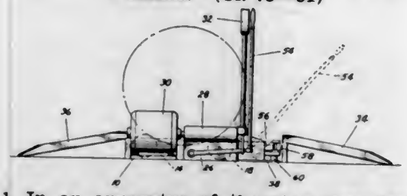
1. A transmission synchronizer comprising, a pair of torque transmitting members mounted in axial alignment, a movable jaw clutch element carried by one of said members and adapted to be moved into engagement with a jaw clutch element carried by the other member thus to establish a positive drive connection between said members, a synchronizer element having a lost motion drive connection with said one member and adapted to be moved into frictional driving

engagement with said other member, a plurality of relatively lightweight sheet metal thrust members each adapted to bear at one end upon said synchronizer element and located against lateral displacement in grooves formed on said one member, steel balls located in sockets formed on the radially outwardly facing walls of said thrust



members so as to receive radial thrust therefrom and adapted to be received in an annular groove formed on the inner and adjacent wall of said movable jaw clutch element, and spring means interposed between said thrust members and the bottom wall of said groove whereby said thrust members with their steel balls may be urged radially outwardly.

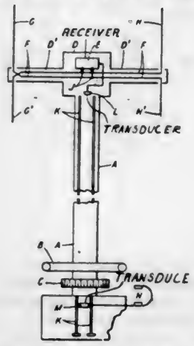
2,160,092
BRAKE TESTER
Lee L. Smalley, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application June 12, 1936, Serial No. 84,939
5 Claims. (Cl. 73—51)



1. In an apparatus of the class described, a brake testing unit including a plurality of rollers for supporting and rotating a wheel, a retaining roller, means for moving the retaining roller into the path of the wheel including a train of gearing, hand operated means for driving the gearing, means for locking the retaining roller in wheel retaining position, and a foot operated lever means for tripping the locking means.

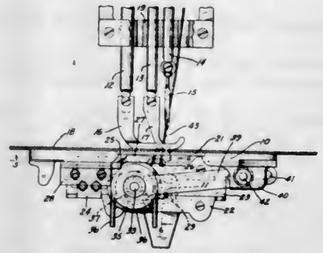
2,160,093
DIRECTION FINDING AERIAL SYSTEM
Sidney Bertram Smith, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application July 17, 1936, Serial No. 91,069
In Great Britain August 31, 1935
4 Claims. (Cl. 250—11)

3. In a direction finding system a pair of vertically disposed dipole antennas parallel to one another and mounted for rotation about a vertical axis of symmetry, supporting means having a horizontal member at the extremities of which said dipoles are mounted and having a vertically disposed hollow supporting member of insulating material for rotating said dipoles about said vertical axis of symmetry, a remotely controlled receiver having detecting means connected to said antennas and located adjacent the center of the horizontal supporting member, radiating means operable from said receiver to indicate the response of said receiver to directional signals and located in said vertical axis of symmetry means



for transmitting said indication to the lower end of said vertical supporting member and operating rods of insulating material extended longitudinally of said vertical supporting member for adjusting said receiver.

2,160,094
TUFTING ATTACHMENT FOR SEWING MACHINES
William F. Schmiedel, Oshkosh, Wis., assignor to Deltox Rug Company, Oshkosh, Wis., a corporation of Wisconsin
Application October 6, 1938, Serial No. 233,530
12 Claims. (Cl. 112—79)



1. In a sewing machine tufting attachment, a stationary sheath having an open side, a looper reciprocatable telescopically relative to the interior of the sheath and having a portion thereof spaced from an inner wall portion of said sheath, and a cutter partly positioned in said space to sever a loop extended about the sheath and across the open side thereof.

2,160,095
COMPOSITIONS FOR FLUID TRANSMISSION OF POWER
William Percival Smith, London, England
No Drawing. Application July 17, 1937, Serial No. 154,320. In Great Britain November 18, 1933
10 Claims. (Cl. 252—5)

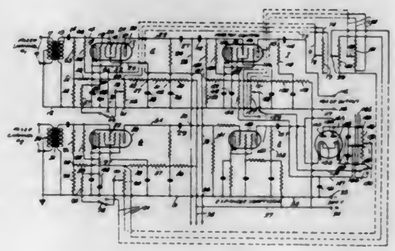
1. A liqu'd for transmission of power consisting of castor oil, an acetic acid ester of a polyhydric alcohol containing before esterification not more than three hydroxyl groups in the molecule, and a glycol ether.

2,160,096
GARMENT
Elsie Swan, Los Angeles, Calif.
Application July 20, 1938, Serial No. 220,245
4 Claims. (Cl. 2—115)



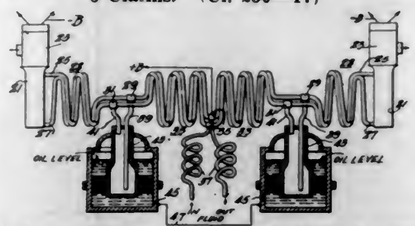
1. In a garment adapted to cover the upper part of the body, and adapted to provide a neck opening, in which garment fastening devices adjacent the neck are obviated, and which can be donned by pulling the garment over the head of the wearer, a fabric member forming the neck opening as well as the shoulder portions, said member being adapted to be placed around the neck of the wearer, and having front portions extending diagonally downwardly from the shoulders and overlapping below the neck opening, the overlap being defined by edges of the fabric member diverging downwardly from the neck, the overlap being limited to the central front portion of the garment and extending downwardly to a place considerably above the waist region, the overlapping parts being joined together only at the bottom edges thereof, and a waist covering member joined to the bottom edges of the fabric member.

2,160,097
VARIABLE GAIN SIGNAL AMPLIFYING SYSTEM
Paul Weathers, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1937, Serial No. 140,060
34 Claims. (Cl. 179—1)



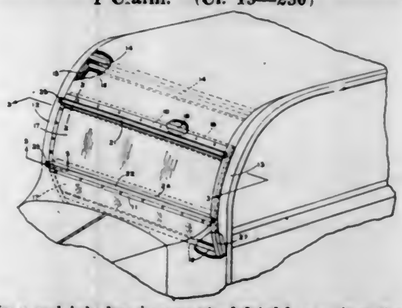
1. In a signal mixer system, the combination of a plurality of amplifier channels, means providing a common signal output mixing circuit therefor, a master volume control amplifier connected with said mixing circuit to receive and amplify the combined signal output therefrom, means responsive to changes in the amplitude of the signals applied to said mixing circuit for controlling the gain of said master volume control amplifier and the combined signal output level therefrom, and an output circuit for said amplifier through which the mixed, amplified and controlled signals are conveyed.

2,160,098
FLUID COOLED ELEMENTS FOR RADIO CIRCUIT
Gurdon H. Williams, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 15, 1936, Serial No. 115,896
6 Claims. (Cl. 250—17)



1. A circuit including in combination a thermionic tube including a fluid-cooled anode, a fluid-cooled capacitor, means connecting said anode and said capacitor for electrical currents and for circulation of a cooling fluid, a fluid-cooled inductor, including a pair of terminals, a connection from said capacitor to one of said terminals providing a path for electrical currents and for said cooling fluid, and means connecting said capacitor to the remaining terminal of said inductor.

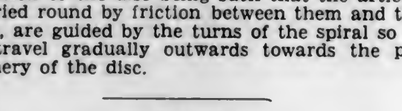
2,160,099
SELF-CLEANING WINDSHIELD
Rubin Zeligman and David Turin, Brooklyn, N. Y.
Application March 29, 1938, Serial No. 198,650
1 Claim. (Cl. 15—250)



In a vehicle having a windshield opening therein, the body frame at the sides and top of said opening being cylindrically arched upward and rearward, said frame including a pair of windshield side members having oppositely disposed arcuate grooves therein, a cylindrically arched glass slidably mounted in said grooves, means for moving said glass alternately upward and downward in said grooves, and rigid wipers bridging said opening and lying in slidable contact with said glass.

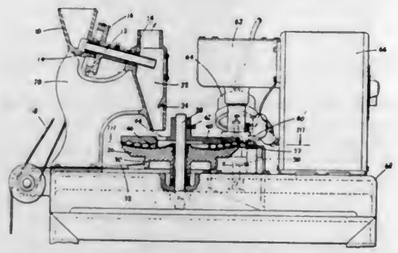
2,160,100
SANITARY TOILET SEAT
Charles P. Crawford, Munhall, Pa.
Application October 2, 1937, Serial No. 167,066
3 Claims. (Cl. 4—245)

1. A privy seat having an opening at the front, and coverings secured to the seat, the coverings being weakened along lines extending from one rear corner of the seat along one outer edge of the seat, across one forward end of the seat, around the edge of the hole in the seat, across the other forward end of the seat and along the outer edge of the seat, to form a pulling ribbon whereby any covering may be set free and removed, the seat being provided near to the first-specified



corner with an outwardly-extended shoulder giving the adjacent ends of the ribbons lateral prominence, to facilitate taking hold of any ribbon initially.

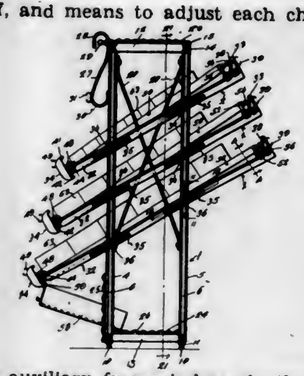
2,160,101
APPARATUS FOR FEEDING ARTICLES IN SORTING AND LIKE MACHINES
Walter Reginald Horsfield, Welwyn Garden City, England, assignor to Electric Selectors Limited, Welwyn Garden City, England, a British company
Application March 4, 1938, Serial No. 194,010
In Great Britain March 10, 1937
4 Claims. (Cl. 221—130)



1. Apparatus for feeding small articles such as seeds comprising in combination a disc rotating on a vertical axis, the upper surface of said disc being a surface of revolution the generatrix of which approximates to one half of a parabolic curve having its vertex on the axis of rotation and its geometrical axis inclined to the axis of rotation on the same side thereof as the said curve, means for supplying articles to said disc at a point near its centre and a spiral of smooth material resembling a clock spring mounted above the disc with its lower edge close to the upper surface of the disc, the direction of rotation of the disc being such that the articles carried round by friction between them and the disc, are guided by the turns of the spiral so as to travel gradually outwards towards the periphery of the disc.

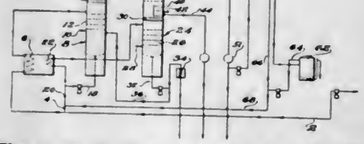
2,160,102
DISPLAY RACK
Walter E. Hull, Galveston, Tex.
Application September 16, 1937, Serial No. 164,254
5 Claims. (Cl. 211—49)

1. Apparatus of the class described comprising a main frame including side pairs of front and rear corner legs, a plurality of auxiliary rectangular frames secured to said pairs of legs in vertically spaced relation and in forwardly and downwardly inclined position, said auxiliary frames decreasing in size successively from the bottom frame and being relatively centered whereby the front and rear ends of each lower frame extend beyond corresponding ends of the next higher frame, a plurality of merchandise containing chutes removably mounted side-by-side in each frame to extend between the front and rear ends thereof, and means to adjust each chute in its



related auxiliary frame independently into different inclined positions therein.

2,160,103
METHOD FOR DISTILLING RESIDUES
Wheaton W. Kraft, New York, N. Y., and Ward J. Bloomer, Bayonne, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application April 23, 1935, Serial No. 17,776
3 Claims. (Cl. 196—73)

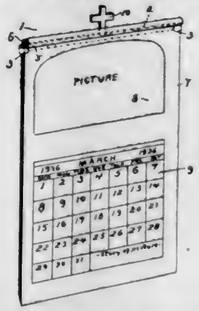


1. The method of separating oils and asphalt from petroleum bottoms consisting essentially of lubricating stock and not substantially more than 10% of asphalt which consists in adding to the bottoms a diluent miscible therewith and of materially lower boiling point than the bottoms, subjecting the mixture to flash vaporization by continuously heating the mixture and introducing it into a vaporizing zone to vaporize the diluent and the greater part of the lubricating stock and to leave a residue containing asphalt in much higher proportion than in the original mixture, adding diluent to said residue, continuously heating the mixture of residue and diluent and introducing it to a second vaporizing zone under vacuum for flash vaporization of the diluent and the remaining lubricating stock from the asphalt, the temperature of each heating operation being sufficient to effect maximum vaporization without cracking, condensing diluent and lubricating stock while preventing return of condensate to either vaporizing zone and withdrawing asphaltic residue from the second vaporizing zone.

2,160,104
CALENDAR DEVICE
John H. Kulow, Buffalo, N. Y.
Application March 30, 1937, Serial No. 133,881
5 Claims. (Cl. 40—119)

1. A calendar having a forwardly projecting

offset at the top edge of the calendar, and a mounting device having provisions by which it may be secured to a suitable support and including side fingers to engage over the sides of the



calendar, said offset being designed to rest on said fingers and said calendar being longitudinally movable in said mounting device while embraced by said fingers.

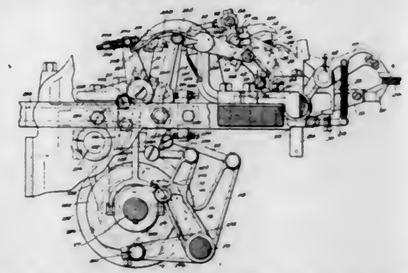
2,160,105

SHOE SEWING MACHINE

Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application December 20, 1937, Serial No. 180,701

22 Claims. (Cl. 112—61)



1. A shoe sewing machine having, in combination, a presser-foot, means for moving the presser-foot yieldingly into engagement with the work, a presser-foot lock including a floating member movable with the presser-foot to a position determined by the thickness of the work, means for locking the floating member, a toggle connected with the presser-foot, and means for operating the toggle when the floating member is locked to squeeze the work and to lift the presser-foot clear of the work.

2,160,106

PROCESS OF DISSOLVING ALKALI SOLUBLE CELLULOSE DERIVATIVES

Robert W. Maxwell, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 27, 1937, Serial No. 145,165

11 Claims. (Cl. 260—232)

1. In the process of dissolving alkali-soluble cellulosic material in cold aqueous alkali, the step of cooling to dissolving temperature, the mixture of cellulosic material and caustic alkali, which comprises adding ice directly to said mixture.

2,160,107

PROCESS FOR PREPARING CELLULOSE DERIVATIVES

Robert W. Maxwell and Joseph Harrel Shipp, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 21, 1937, Serial No. 181,054

8 Claims. (Cl. 260—231)

1. A process for the preparation of low-substituted cellulose ethers which comprises mixing a cellulosic material with a solution of an etherifying agent and a caustic alkali, placing the mixture under mechanical pressure to remove excess solution, and allowing the reaction to proceed to the desired degree in the presence of a controlled amount of entrained air, the amount of air in said material being controlled by maintaining the material under suitable mechanical pressure during the period of reaction, said pressure ranging from that sufficient to exclude substantially all of the air to that sufficient to maintain said material at a volume not over 50% in excess of the minimum volume occupied by said material during the pressing step.

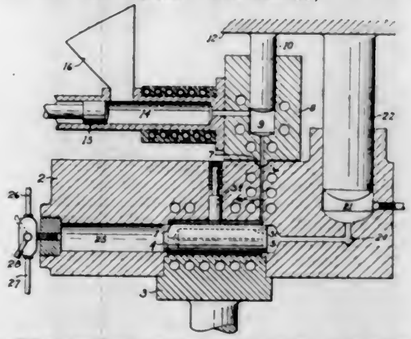
2,160,108

METHOD AND APPARATUS FOR COVERING THIN WALL TUBING

James S. Reid, Shaker Heights, Ohio, assignor to Thermo-Plastics, Inc., St. Clair, Mich., a corporation of Michigan

Application October 26, 1936, Serial No. 107,572

13 Claims. (Cl. 18—30)



1. The method of covering thin wall hollow tubing with thermoplastic material, comprising supporting the article in a mold cavity in spaced relation to the walls thereof accurately by a movable support extending within the article, injecting fluid thermoplastic material into the cavity adjacent one end of the tubing under high pressure to cause the material to flow as an envelope lengthwise of the tubing to the opposite end, and concurrently withdrawing the support in a predetermined relation to the leading limit of the flowing material.

11. An apparatus for coating and bonding to tubular stock a layer of thermoplastic material comprising separable mold sections defining a mold cavity, injection means for injecting thermoplastic material into the cavity, a reciprocable plunger extending into the cavity in position for entering axially into a length of tubular stock to be coated from one end and snugly fitting within the stock and extending beyond the opposite end of the stock, a cavity in one of the mold sections receiving and snugly accommodating the extending portion of the plunger for supporting the

stock in the cavity in accurately spaced relation to the wall thereof, said plunger being rigid and rigidly supported for resisting hydrostatic deflection of the stock by the injected material, and means for supplying fluid pressure into said cavity to retract the plunger from within the stock, and means yieldably resisting movement of the plunger by the fluid pressure.

2,160,109

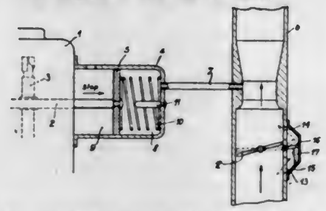
SPEED GOVERNOR FOR INJECTION INTERNAL COMBUSTION ENGINES

Alfred Schweizer, Stuttgart, Germany, assignor to Robert Bosch Gesellschaft mit beschränkter Haftung

Application February 8, 1937, Serial No. 124,757

In Germany February 8, 1936

8 Claims. (Cl. 123—140)



1. In an injection internal combustion engine including an induction pipe, a resiliently loaded differential pressure governor adapted to vary the quantity of fuel injected in dependence upon the pressure conditions in the induction pipe, a throttle member in said induction pipe and a duct connected with the governor and opening into said induction pipe between said throttle member and the engine, air supply means opening into said induction pipe between the throttle member and the engine, and a resiliently-loaded valve controlling said air supply means and tensioned to open when a predetermined degree of suction is reached in said induction pipe to maintain the suction therein substantially at a mean value compatible with the predetermined speed, thereby eliminating pressure fluctuation at low engine speeds which otherwise would tend to oscillate the governor.

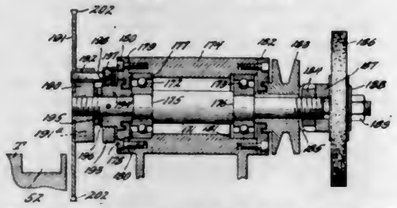
2,160,110

COMPOSING ROOM SAW

Frederick W. Seybold, Westfield, N. J., assignor to American Type Founders Incorporated, Elizabeth, N. J., a corporation of New Jersey

Original application May 21, 1936, Serial No. 81,069. Divided and this application March 12, 1937, Serial No. 130,605

4 Claims. (Cl. 29—69)



1. In a machine of the character described, a saw and trimmer knife assembly including in combination, a shaft, a bearing on the machine rotatively supporting said shaft, a saw having its hub threaded on one end of said shaft, an externally threaded collar secured to said shaft, means disposed between said hub and collar to hold the hub at a definite selective adjusted position axially of the shaft, a nut on said externally threaded collar, and trimmer knives extending axially through said hub having their inner ends abutting said nut.

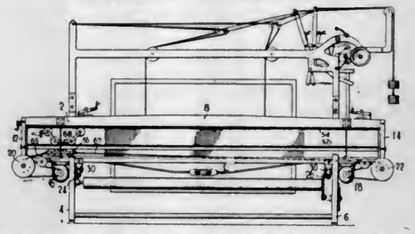
2,160,111

SHUTTLE MOTION FOR LOOMS

Journey F. Timberlake, Charlottesville, Va., assignor of twelve and one-half per cent to Robert L. Wright, Richmond, Va., twelve and one-half per cent to H. Newell Goodwin, one and one-half per cent to H. Earl Thomas, and one and one-half per cent to Percy E. Thomas, all of Charlottesville, Va.

Application December 31, 1935, Serial No. 57,043

17 Claims. (Cl. 139—133)



9. A shuttle motion for looms comprising, a shuttle carriage, flexible means provided with gaps for continuously guiding a set of warp threads during movement of the shuttle carriage, means for supporting said flexible means with a portion throughout its length above the plane of the set of warp threads, and means for causing successive portions of said flexible means to exert a cam action on said shuttle carriage to actuate the same.

2,160,112

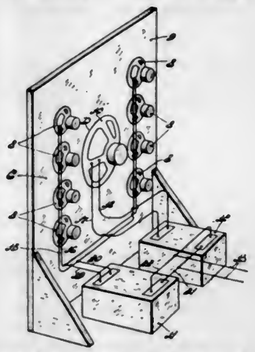
DEVICE FOR REPRODUCING SOUND

Arend Thomas Van Urk and Roelof Vermeulen, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application January 9, 1936, Serial No. 58,430

In Germany January 17, 1935

7 Claims. (Cl. 179—109)



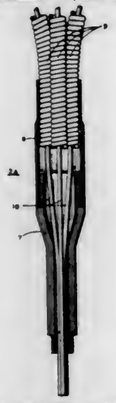
1. A device for reproducing sound comprising means for dividing the frequencies to be reproduced into a low-frequency region having an upper limit between 200 to 500 cycles and a high-frequency region, a plurality of electro-dynamic loudspeakers for reproducing the frequencies lying within the low-frequency region and having

free radiating diaphragms, said loudspeakers having their fundamental resonances below and their second resonances above said low-frequency region, and an electro-dynamic loudspeaker for reproducing the frequencies lying within the high-frequency region, said latter loudspeaker having its outstanding resonances below and other of its resonances within said high frequency region.

2,160,113
BOWDEN WIRE

Harry T. Anderson, Herkimer, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application September 28, 1937, Serial No. 166,232
3 Claims. (Cl. 74—501)

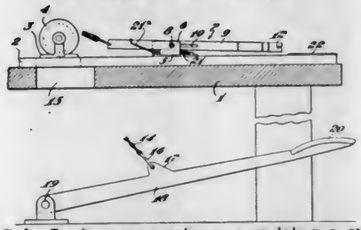


1. In a device of the character described, a plurality of Bowden wires including wire-covers and cores, a sleeve adapted to maintain one end of each of said wire-covers in a group, a tapered sleeve adapted to be connected to said wire-cover sleeve, said tapered sleeve being adapted to cause said cores to converge into a relatively small group whereby said group may be operated simultaneously from a single point.

2,160,114
SOLE FLEXING APPARATUS

Albert F. Bancroft, West Newton, Mass.

Application October 29, 1937, Serial No. 171,664
7 Claims. (Cl. 12—41.2)



1. Sole flexing apparatus comprising a support for a sole to be flexed, means operative to resist bodily movement of the sole in a longitudinal direction, a sole flexing member normally spaced from the support a sufficient distance to permit a sole to be placed between the flexing member and the support, said flexing member being designed and arranged to have a portion of the sole doubled about it, means operative to move the flexing member bodily longitudinally over the support and of the sole, and means for holding the sole bent about the flexing member while the latter is being moved.

2,160,115
MATCH

William W. Bell, Tenafly, N. J., assignor to Celluloid Corporation, a corporation of New Jersey

No Drawing. Application January 25, 1935, Serial No. 3,502. Renewed November 12, 1937
2 Claims. (Cl. 44—46)

1. A fireproof match capable of being stained or printed comprising a stem of combustible material having a head at one end and a portion of the other end impregnated with a fireproofing material containing an aryl ester of phosphoric acid.

2,160,116
TREATMENT OF MERCAPTAN CONTAINING MATERIAL

Harold E. Bode, Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

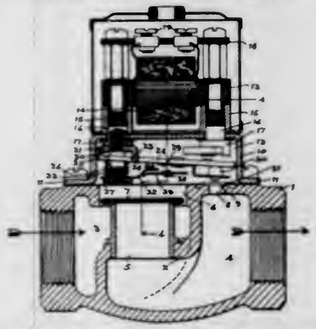
No Drawing. Application August 16, 1937, Serial No. 159,317
4 Claims. (Cl. 196—24)

1. Method of reducing the undesirable odor in hydrocarbons containing mercaptans which comprises mixing with said hydrocarbons small amounts of glucose and a mineral acid catalyst to change the odoriferous mercaptan to an innocuous glucose mercaptan.

2,160,117
FLUID CONTROL VALVE

Nico Borresen, Buffalo, N. Y., assignor to Nicostat Products Inc., Buffalo, N. Y.

Application January 11, 1937, Serial No. 120,052
10 Claims. (Cl. 137—139)



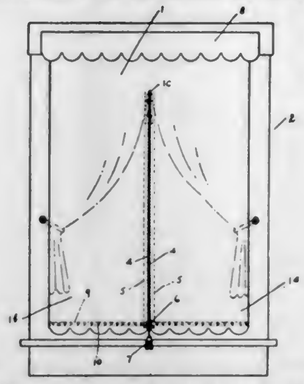
1. In a fluid control valve having a valve body provided with a passage to be controlled, an electro-magnet mounted on said body having a core portion, a stud spaced from core portion, a magnetically displaceable bar having a hole therein loosely receiving said stud and adapted to swing toward said magnet core portion, a fulcrum engaging said bar intermediate of its length, a spring engaging said bar to urge the free end thereof away from said magnet core portion, a valve carried by said bar to close said passage, a plate loosely mounted on said stud and engaged by said spring to swing away from said bar, a stop on said bar to be engaged in locking contact with said plate, and means for moving said plate into locking engagement with the stop on said bar.

2,160,118
WINDOW SHADE

George F. Brent, Pittsburgh, Pa.

Application February 7, 1938, Serial No. 189,039
1 Claim. (Cl. 156—10)

A window shade consisting of a rectangular sheet of flexible fabric, a roller for supporting the shade at the top of a window and upon which the body of the shade may be wound and unwound, a valance mounted over the roller at the top of such window, the body of said shade being parted on a vertical, medial line and a hookless fastener secured to the edges of the body at said line of parting, said fastener including a vertically movable slide, said slide being arranged, upon movement in down-direction, to engage



said fastener and unite said edges, and, upon movement in upward direction, to disengage the fastener and free said edges, the fabric of which said shade is formed being of relatively soft, flexible character and being adapted, when unwound from said roller, to be readily gathered and folded on vertical lines below said valance, whereby the body of the shade on opposite sides of said line of parting may be gathered and tied to provide draperies for the window, substantially as described.

2,160,119
PIGMENT PASTES

Karl Brodersen, Dessau in Anhalt, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

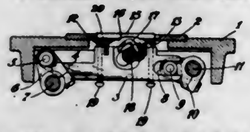
No Drawing. Application December 31, 1936, Serial No. 118,571. In Germany January 6, 1936
2 Claims. (Cl. 134—58)

1. Aqueous pigment pastes consisting of a pigment, a dispersing agent consisting of a quaternary ammonium compound which contains a radical with more than 5 carbon atoms, and water.

2,160,120
FEED DOG FOR SEWING MACHINES

Jacob Brussell, New York, N. Y., assignor to Isadore Friedman, Roselle, N. J.

Original application July 7, 1937, Serial No. 152,401. Divided and this application September 9, 1938, Serial No. 229,055
6 Claims. (Cl. 112—216)

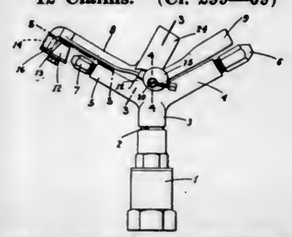


1. In a sewing machine, a feed dog comprising a substantially rigid open frame, a plurality of substantially parallel feed bars within said frame, said feed bars bridging the space between opposite sides of said frame, means for adjusting the level of said frame at a plurality of corners thereof, and means for supporting said frame, said adjusting means including screws threaded into said support and contacting with the corners of said frame.

2,160,121
VARIABLE SPEED ROTARY SPRINKLER

William A. Buckner, Fresno, Calif.

Application December 28, 1937, Serial No. 182,055
12 Claims. (Cl. 299—69)



10. A rotary sprinkler comprising a sprinkler head mounted for rotation and having a radial nozzle member provided with a jet opening at its outer end, an arm normally extending lengthwise of and above the member, a stem mounted on and upstanding from the member between the outer end of the member and the axis of the head and relatively close to the latter, the arm being turnable on the stem, a normally advanced pin projecting at right angles to the nozzle member from one side of the head substantially in line with the axis of the head, a spring advancing said pin, a lug on the arm to engage the outer end of the pin, the arm, when the lug is engaged with the pin and the latter is fully advanced being in longitudinal alinement with the nozzle; said arm being capable of relatively great movement in a direction relative to said alined position away from the pin, another spring between the head and arm placed under increasing tension with the movement of the arm in said last named direction, and an element on the arm beyond the outer end of the nozzle in position to be engaged by the stream issuing from the jet opening and arranged to cause impingement of the water against one side or the other of said element to impart swinging movement of the arm in one direction or the other as the arm swings past the plane of the path of the stream.

2,160,122
GOLF TEE

James P. Bundy, Chicago, Ill.

Application March 1, 1939, Serial No. 259,197
4 Claims. (Cl. 273—33)



1. A golf tee comprising a ball supporting portion and a tripod for supporting said ball supporting portion, said tripod comprising two fixed legs and a pivoted adjustable leg.

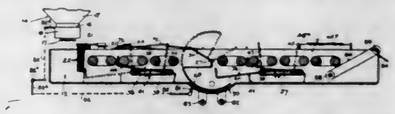
2,160,123
DOUGHNUT MACHINE

Charles E. Carpenter, Chicago, Ill.

Application April 23, 1937, Serial No. 138,526
14 Claims. (Cl. 53—7)

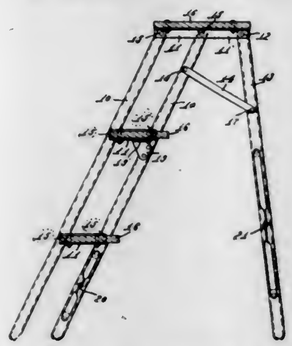
1. In a machine of the class described, the combination of a U-shaped channel, means to cut

and deliver forms into the cross-connection of said channel, means to move the so-cut and delivered forms alternately to the two legs of the channel, a turner located in each channel leg, advancing means in each channel leg in advance



of and behind the turner aforesaid, and means to operate the devices in timed relationship, with the advancing means for each channel leg moving at all times in opposition to each other, substantially as described.

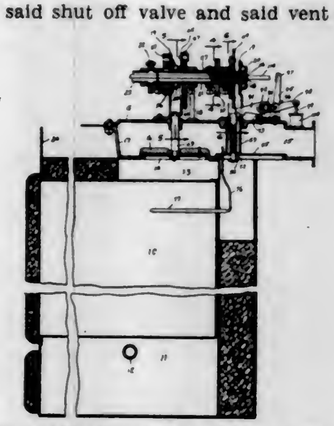
2,160,124
KNOCK-DOWN LOAD SUPPORT
William B. Cast, Parkville, Mo.
Application December 3, 1938, Serial No. 243,681
6 Claims. (Cl. 228—37)



1. A collapsible load-supporting structure comprising a pair of parallel uprights, at least one of which is ground engaging, two or more parallel horizontal links pivotally connected to and spacing said uprights with an upper one of said horizontal links projected beyond its pivotal connection with one of said uprights, a leg pivotally suspended from the projected end of said last-mentioned horizontal link at a point substantially spaced from the pivotal point of the next adjacent upright, a spacer pivoted to said leg and to one of said pair of uprights in such relation that the structure may be collapsed to substantial parallelisms, and stop means arranged to limit expansive movement of the parts.

2,160,125
OVEN CONTROL
Alden P. Chester, Kokomo, Ind., assignor to Globe American Corporation, Kokomo, Ind., a corporation
Application April 18, 1936, Serial No. 75,146
1 Claim. (Cl. 236—46)

In combination, an oven, a burner for said oven and a fuel line to supply said burner, means forming a vent for products of combustion from said burner, a closure for said vent, a supply valve in said fuel line, a thermostat responsive to oven temperature to control said supply valve whereby a predetermined even oven temperature is maintained, a shut off valve in said supply line, a clock mechanism, and connections between said clock, said shut off valve and said vent closure,

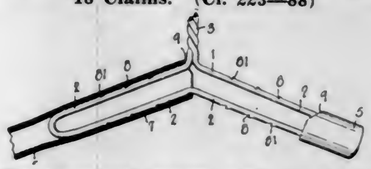


whereby said valve and vent are closed simultaneously by said clock.

2,160,126
BRAKE HOLDING AND RELEASING MEANS
Samuel M. Coffman, Kansas City, Mo.
Application January 28, 1938, Serial No. 187,427
12 Claims. (Cl. 192—13)

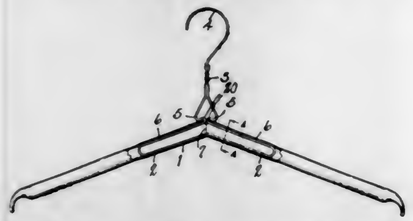
1. In combination with the brake pedal and the clutch pedal of a motor vehicle, a suitably supported rockable member connected to the brake pedal so that they may be advanced and retracted together, locking means for securing said rockable member in advanced position, a lever for controlling said locking means, cam means for controlling said lever, and means controlled by the clutch pedal for moving said cam means to active position when the clutch pedal is advanced and for moving said cam means to idle position when the clutch pedal is retracted.

2,160,127
GARMENT HANGER
James D. Coney, Detroit, Mich., assignor to Star-Service Hanger Company, Detroit, Mich., a corporation of Michigan
Application April 8, 1937, Serial No. 135,747.
18 Claims. (Cl. 223—88)



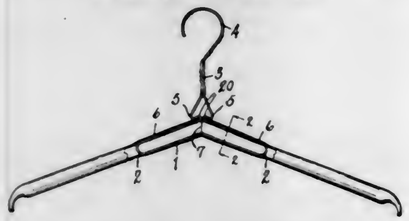
1. In a garment hanger, a one-piece wire element bent to provide a hook, a twisted shank therefor, and a pair of elongated loops diverging downwardly from said shank, and tubular arm members of fibrous material telescoped on said loops, the diameter of said members being such that they are distended by said loops.

2,160,128
GARMENT HANGER
James D. Coney, Detroit, Mich., assignor to Star-Service Hanger Company, Detroit, Mich., a corporation of Michigan
Application March 26, 1938, Serial No. 198,327
5 Claims. (Cl. 223—88)



1. A garment hanger comprising a wire yoke having oppositely disposed loop-like arms provided with a suspending hook substantially in the plane of the arms, hanger arms of tubular fibrous material telescoped on said yoke arms, said hanger arms having inturned coupling members at their outer ends, and a tubular strut receiving the said coupling members.

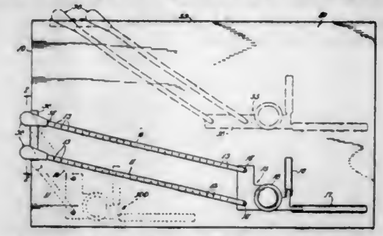
2,160,129
GARMENT HANGER
James D. Coney, Detroit, Mich., assignor to Star-Service Hanger Company, Detroit, Mich.
Original application March 26, 1938, Serial No. 198,327. Divided and this application December 1, 1938, Serial No. 243,331
3 Claims. (Cl. 223—92)



1. A garment hanger comprising an integral yoke and suspending hook formed of wire folded to provide a pair of downwardly diverging loop-like arms, the ends of the wire being brought together and twisted to provide a shank, one end of the wire projecting beyond the other and conformed to provide the hook, the strands of the wire below the twist being outwardly offset providing outwardly facing shoulders above the arms of the yoke, and tubular hanger arms telescoped on the yoke arms with their inner edges engaged between said shoulders and said yoke arms.

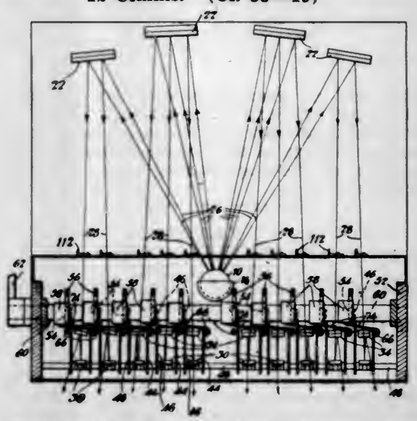
2,160,130
DRAFTING MACHINE
Harold L. De Lisle, Two Rivers, Wis.
Application September 25, 1936, Serial No. 102,453
15 Claims. (Cl. 33—79)

1. In a drafting machine, the combination with a drafting board, of a drafting device movable on said board, a pair of flexible tapes having free ends connected to the device at their free ends, the tapes being connected to the board at one end of the tapes only opposite their free ends whereby the device may be lifted from the board, a pair of spools for winding said tapes thereon, means causing said spools to act in unison, and



uniformly spaced registering means on the tapes and spools jointly.

2,160,131
WAVE MOTION MACHINE
Hilary Doerfler, Shawnee, Okla.
Application October 23, 1936, Serial No. 107,219
12 Claims. (Cl. 35—19)

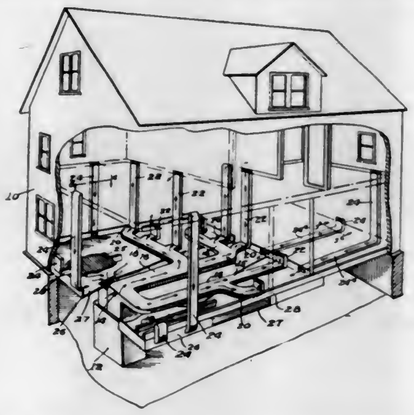


1. In a wave motion machine the combination of a source of light, a plurality of mirrors mounted in separated rows, the rows being spaced apart and the mirrors of one row being arranged angularly with reference to the mirrors in the next adjacent row so that bands of light will pass by reflection from the light source to the mirrors of each row in succession, one row of mirrors being movably mounted, means to move the movable mirrors in a regular cycle to cause the light bands reflected thereby to move, said mirrors having surfaces of sufficient area to receive and the angular mounting of said mirrors being arranged to reflect the light bands in all positions of their movement to produce and reflect spots of light in a row on a screen positioned in front of the machine.

2,160,132
AIR CONDUIT SYSTEM FOR BUILDINGS
Henry E. Durst, Philadelphia, Pa.
Application October 15, 1935, Serial No. 45,062
Renewed May 17, 1938
7 Claims. (Cl. 98—33)

1. In an air conduit system for buildings having air-heating or air-conditioning apparatus including an air-handling unit, means for delivering air from said unit to the building rooms, means for withdrawing air from the building rooms and for returning the so withdrawn air

to said unit, a portion only of said delivering means lying within a portion of said withdrawing and returning means and the said means branching beyond said portions so that the room terminals of said means are spaced from each



other and are disposed at different remotely located parts of each of the rooms to be heated or air conditioned and are exclusive of each other so that neither of said room-terminals embrace any part of the duct leading to the other room-terminal.

2,160,133
PLASTICIZER FOR CELLULOSE DERIVATIVES
Carleton Ellis, Montclair, N. J., assignor to Standard Oil Development Company
No Drawing. Application September 18, 1937, Serial No. 164,497
10 Claims. (Cl. 260—644)

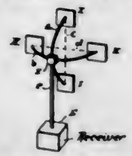
1. A plasticizing agent for soluble cellulose ethers and esters comprising essentially a member of the group consisting of the nitrated polymeric olefins of petroleum containing at least six carbon atoms.

2,160,134
EXTENSIBLE CARPET STRETCHER
Wilbur A. Fanning, Forest Park, Ill., assignor to Kinkead Industries Incorporated, Chicago, Ill., a corporation of Illinois
Application February 3, 1937, Serial No. 123,818
1 Claim. (Cl. 254—63)



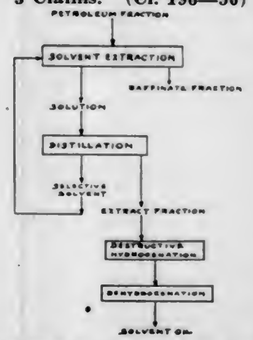
In a carpet stretcher, an extensible pole having a socket in one end characterized by an annular rim, and a blade having a stud at one end thereof for insertion in the rimmed socket in the pole when the latter is arranged in end-to-end relation to the blade in substantially the same vertical plane, whereby to provide an axially separable articulated joint between the members, said stud on the blade fitting the socket in the pole in any circumferentially turned position of the pole, whereby to permit the blade to be readily assembled with the pole in end-to-end relation to the latter regardless of in what position the pole happens to be turned.

2,160,135
DIRECTION FINDING SYSTEM
Karl Fritz, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 27, 1936, Serial No. 71,111
In Germany March 28, 1935
1 Claim. (Cl. 250—11)



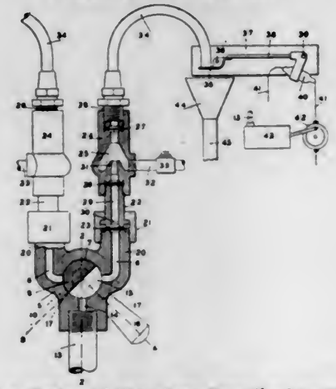
A direction finding system comprising a plurality of fixed receiving antenna units in combination with a radio receiver, means including a pair of semi-circularly formed conductors the ends of which are connected respectively to different ones of said antenna units for feeding energy therefrom to said receiver, said conductors being arranged to contact with one another at a point of intersection of two arcs along which said conductors are disposed, said means including also a common conductor from said point of intersection to said receiver, and means for adjusting the phase relationships between the energies fed into said common conductor from the several antenna units, the last said means being constituted by a device adapted to vary the point of contact between said semi-circular conductors with respect to the terminals thereof.

2,160,136
IMPROVING SOLVENTS
Per K. Frolich, Westfield, N. J., assignor to Standard-I. G. Company, a corporation of Delaware
Application January 31, 1936, Serial No. 61,755
3 Claims. (Cl. 196—50)



1. An improved process for producing hydrocarbons of high solvent power from petroleum fractions having a boiling point of about 150 to 600° F., which comprises solvent extracting the petroleum fractions with a solvent having a selectivity of the type exhibited by liquid sulfur dioxide, segregating a portion of lower aniline point than that of the feed from which it is obtained and containing substantial amounts of polynuclear aromatics, subjecting the portion to catalytic destructive hydrogenation under pressures above about 20 atmospheres and at temperatures of approximately 950° F. to 1050° F. to obtain the conversion of substantial amounts of the polynuclear aromatics to polynuclear hydroaromatics, subsequently dehydrogenating the last-mentioned product at a temperature between about 900° F. and 1100° F. under approximately ordinary pressure to produce substantial amounts of intermediate partially unsaturated hydro-aromatic products without complete dehydrogenation to the polynuclear aromatics.

2,160,137
SAFETY MECHANISM
Albert F. Froussard, St. Louis, Mo.
Application January 18, 1937, Serial No. 121,139
2 Claims. (Cl. 137—111)



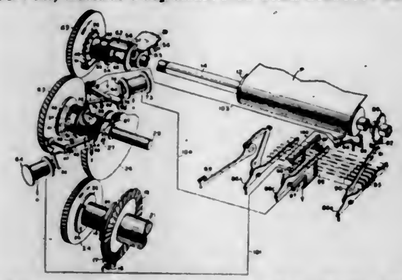
2. In a device of the class described comprising a conduit, of primary means in said conduit preventing the passage of fluid below a predetermined pressure, and a pair of secondary means in said conduit preventing the passage of fluid below a predetermined pressure, said secondary means defining a water mixing chamber spaced from the main means.

2,160,138
HIGHER ALKYL HYDROXY-AMINES
Peter J. Gaylor, Staten Island, N. Y., assignor to Standard Oil Development Company, a corpration of Delaware
No Drawing. Application December 7, 1937, Serial No. 178,559
5 Claims. (Cl. 260—584)

1. A hydrocarbon oil soluble mixture of higher primary aliphatic hydroxy amines in which the hydroxy group and the amino group of each molecule have been added to the double bond carbon atoms of olefines in a distillate boiling in the range of 200° to 700° F. prepared by cracking higher boiling paraffinic hydrocarbons of a petroleum source.

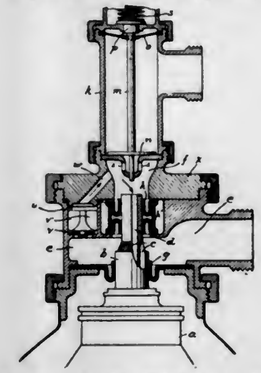
2,160,139
MESSAGE EJECTING MECHANISM FOR TELEGRAPH PRINTERS
Hakon H. Haglund, New York, N. Y., and Lee R. Foster, River Edge, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 14, 1937, Serial No. 153,530
15 Claims. (Cl. 178—42)

1. In a printing telegraph machine, a selecting mechanism, a printing mechanism, a platen coacting with said printing mechanism, a record paper engaging said printing platen, a main paper feeding mechanism adapted to advance the paper a predetermined amount for each operation thereof, an auxiliary paper feeding mechanism adapted to advance the paper a plurality of said predetermined distances at the end of a message so that the paper is normally advanced in substantially equal amounts for each message received, means responsive to said selector mech-



anism for rendering said auxiliary paper feeding means operative and means operative during the advancement of said paper by said main paper feeding mechanism to automatically vary the total advancement of said paper by said main and auxiliary paper feeding mechanisms.

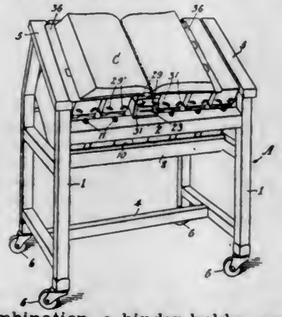
2,160,140
CENTRIFUGAL SEPARATOR
Cyrus Howard Hapgood, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application December 9, 1937, Serial No. 178,875
3 Claims. (Cl. 233—21)



1. In a centrifugal separator comprising a rotary bowl having outlet passages for heavier and lighter constituents, stationary chambers into which said constituents are adapted to respectively discharge, a lighter liquid density regulating valve beyond the receiving chamber for lighter liquid and which maintains a superior pressure therein during normal operation of the separator, and flexible packing means engaging the bowl neck and sealing said chambers and submerged in outflowing liquid during the normal operation of the separator; the improvement for maintaining submerged in liquid, during stoppage of feed to the separator, the packing device sealing the lighter liquid receiving chamber which comprises means providing a flow channel between the two receiving chambers, and a valve which is actuable during normal operation of the separator by the superior pressure in the lighter liquid chamber to close said channel and which, during cessation of feed to the separator, is actuated by the superior pressure in the heavier liquid

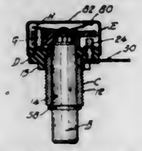
chamber to open said channel and allow flow of liquid therethrough into the lighter liquid chamber to thereby maintain said packing device submerged in liquid.

2,160,141
BOOK RACK
Walter E. Haskin, Flushing, N. Y., assignor to Pressed & Welded Steel Products Company, Inc., New York, N. Y., a corporation of New York
Application October 4, 1935, Serial No. 43,628
6 Claims. (Cl. 129—1)



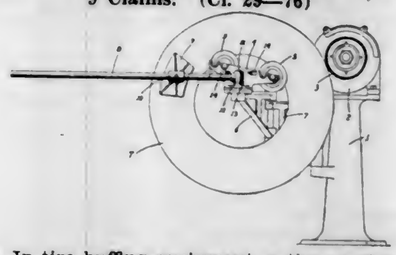
4. In combination, a binder holder, an arcuate prong hinged back loose leaf binder having flush ends normally coupled to the holder in a closed position and having a pair of rods integral with and positioned at the outer corners of the back of the binder extending therethrough longitudinally and projecting beyond the ends thereof, a fixed rigid vertical flange at one end of the holder, a movable element bearing a rigid vertical flange at the opposite end of the holder said flanges each having a pair of similar oppositely disposed angular slots therein for engaging the ends of the rods whereby the binder is securely coupled to the holder in any position thereof, the said angular slots permitting the manipulation of the binder in the holder to the full open relation of the prongs, and means for shifting said movable element between coupled position with the slots engaging the ends of the rods and uncoupled position with the slots free from engagement with the rods.

2,160,142
MIDGET VARIABLE RESISTANCE DEVICE
Clarence J. Hathorn, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application April 19, 1937, Serial No. 137,653
2 Claims. (Cl. 201—55)



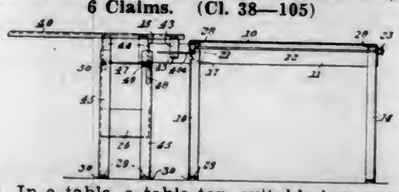
1. An adjustable resistance device comprising an insulating base, a resistance element mounted upon said base, an electric conducting contact shoe for frictionally engaging said resistance element, said contact shoe having a disc-like head in engagement with said resistance element and a cylindrical-like shaft, a rotatably mounted control shaft, an insulating control head having an opening to complementary receive the shaft of the contact shoe, a combined contact shoe pressure member and spring-like electrical contact member, a metallic casing, said combined shoe pressure member engaging the upper end of said contact shoe shaft whereby the contact shoe will be pressed into engagement with the resistance element, and the spring-like electrical contact member being adapted to electrically engage said casing, a peripheral notch on the underside of said insulating control head, a combined rivet holding member and stop member, an outside electrical terminal, said combined member holding one end of the resistance element and the outside terminal to the insulating base, said notch in the insulating head being of an arcuate length equal to the angular movement of the control head, the end walls partially defining the notch on said control head being adapted to abut against the stop member whereby the control will be limited in rotary movement in each direction of movement, an outside terminal integrally formed with said metallic casing, and said casing partially telescoped upon said insulator base.

2,160,143
BUFFING EQUIPMENT
Charles J. Hayton, Los Angeles, Calif.
Application September 27, 1937, Serial No. 165,918
9 Claims. (Cl. 29—76)



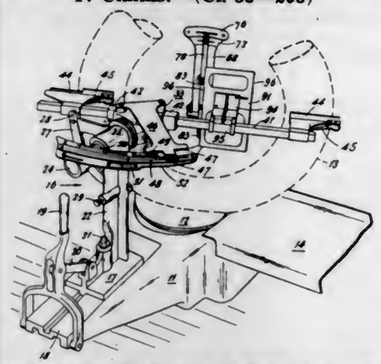
1. In tire buffing equipment, a tire carrier including a carrier box and elements mounted therein to rotatably support a tire, brake shoes adapted to frictionally engage a supported tire on opposite sides thereof, and movable arms adapted for hand engagement and manipulation, mounted on the carrier box and connected to the shoes.

2,160,144
UTILITY TABLE
Mary Elizabeth Hiller, Pittsburgh, Pa.
Application March 4, 1937, Serial No. 128,969
6 Claims. (Cl. 38—105)



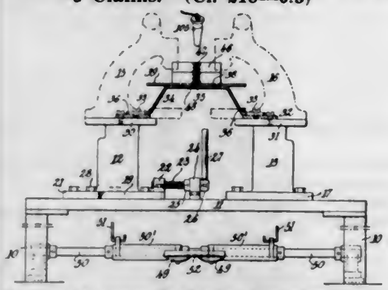
1. In a table, a table top, suitable legs secured thereto and adapted to rest upon a floor space, an auxiliary table top slidably and outwardly extensibly mounted with respect to said table top, leg members vertically attached to said auxiliary table top, and members adjustably connecting said auxiliary table top to said table top, said members being constructed and arranged to cooperate with said leg members for supporting said auxiliary table top in one of two substantially horizontally-level vertical positions when said auxiliary table top is outwardly extended with respect to said first-mentioned table top.

2,160,145
WHEEL ALIGNING APPARATUS
Herbert Glenn Holmes, Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 10, 1937, Serial No. 141,679
17 Claims. (Cl. 33—203)



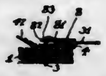
1. The combination with a wheel algning head having an aligning bar adjustable into parallel relation with the plane of a dirigible wheel in angularly adjusted positions thereof and indicating means associated with said bar for indicating the angular relation of a wheel to ts straight ahead position; of a scale and pointer assembly for mounting on a wheel, and gauge means on said bar for adjusting the pointer relative to the scale to give an indication of tilt of the king pin.

2,160,146
DUPLEX SNAP FASTENER ATTACHING MACHINE
Otto John Huelster and Jerome Ganierre Wolff, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application July 10, 1937, Serial No. 152,928
6 Claims. (Cl. 218—0.5)



1. A duplex snap fastener attaching mechanism comprising two fastener setting heads with associated parts, means for operating said setting heads, each setting head having a projecting nose containing a setting station, a base extending laterally beyond the projecting nose and an anvil in alignment with said nose, the heads being so related that the noses thereof are directed toward each other with the axes of their setting stations parallelly disposed, and at least one of said setting heads being adjustable laterally with respect to the other to selectively vary the distance between the setting stations while maintaining said parallel axial relationship therebetween.

2,160,147
LOOSE LEAF BINDER
Rufus W. Hunt, Birmingham, Mich.
Application September 30, 1936, Serial No. 103,275
5 Claims. (Cl. 281—25)



1. In a book, in combination, a stack of punched sheets having a plurality of sets of registering apertures; a plate applied to one side of the sheets, one edge of said plate overlying said apertures and having therein notches registering with the same, there being slots in said plate in offset relation to said notches, and binding members extending through said apertures and through said notches and having their end portions extending over said plate and passing downwards through said slots and under the plate.

2,160,148
TREATMENT OF ALUMINUM ORES
István Hunyady, Rakospalota, Hungary
Application April 2, 1936, Serial No. 72,442
In Hungary April 12, 1935
11 Claims. (Cl. 23—118)



1. The method of working by chemical treatment an ore, or a material obtained by decomposing an ore, containing, besides aluminum compounds in substantial proportion, compounds of iron and certain other metals, which comprises the steps of mixing the said material with ammonium sulfate, heating the mixture thus obtained to develop ammonia and produce, from metal compounds contained in the starting material, metal sulfates which are soluble in water, dissolving said metal sulfates in acidulated water, separating the solution thus obtained from any insoluble constituents, adding ammonium sulfate to this solution and concentrating the same, causing the dissolved aluminum sulfate to crystallize out substantially pure in the form of ammonia alum, separating the precipitate thus obtained from the mother liquor (mother liquor I), reducing any ferric compound dissolved in said mother liquor and then adding to said mother liquor a solution of ammonium sulfate, causing the main part of the iron sulfate, present in the liquid mixture thus obtained, to crystallize out in the form of ammonium ferrous sulfate in admixture with ammonium alum, separating from the precipitate thus obtained the mother liquor (mother liquor II) which is an aqueous solution of ammonium sulfate, introducing into the last-

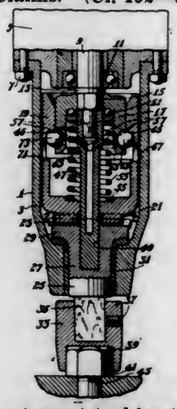
mentioned mother liquor ammonia, filtering off the precipitate thereby formed and washing it with a solvent for a metal hydroxide contained in the last-mentioned precipitate.

2,160,149
DENTAL PLATE CLEANSER
Samuel Jellinek, St. Louis, Mo.
Application December 23, 1938, Serial No. 247,348
2 Claims. (Cl. 15—27)



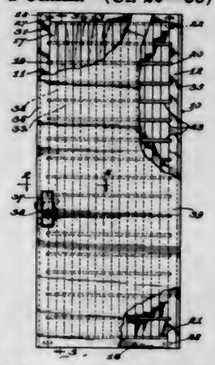
2. A dental plate cleanser comprising a handle, a shank projecting from one end of said handle, a brush comprising a hub and a mass of bristles extending entirely around said hub and projecting radially therefrom, the bristles being rounded transversely to the periphery of the brush, said brush being rotatably mounted on said shank, and a coupling device interposed between the handle and the brush for a predetermined limited lost rotary motion.

2,160,150
IMPACT WRENCH
Francis A. Jimerson and Harold C. Reynolds, Athens, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application October 21, 1937, Serial No. 170,218
2 Claims. (Cl. 192—30.5)



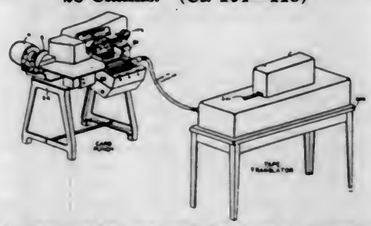
2. In a rotary impact tool having an anvil and a hammer for striking the anvil, disengageable cooperating clutch members on the hammer and anvil, a spring to normally hold said clutch members in engagement, driving means for the hammer, and means whereby the driving means may drive the hammer member when the clutch members are engaged and to disengage the clutch member when the driving means is incapable of driving the hammer member comprising V-shaped channels on the driving means having the arms of the V inclined at an angle to the horizontal substantially less than ninety degrees, inverted V-shaped grooves on the hammer having the arms of the V at the same angle to the horizontal as the arms of said channels, and means guided by said channels and grooves.

2,160,151
COMPOSITE DOOR
Fred A. Johnson, Chicago, Ill., assignor to Fred A. Johnson, Junior, Chicago, Ill.
Application September 11, 1937, Serial No. 163,364
1 Claim. (Cl. 20—35)



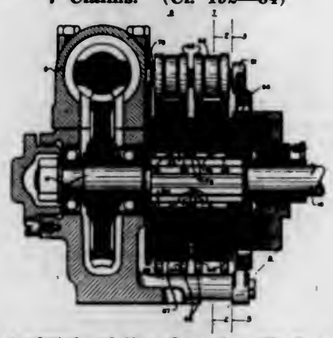
A composite door comprising a pair of vertical frame members and a pair of horizontal end frame members secured together to form a substantially rectangular frame, with a multiplicity of horizontal frame members extending from one vertical frame member to the other, said vertical frame members being provided with slots fitting the ends of said horizontal frame members, and a plurality of vertical frame members comprising slats glued to said latter horizontal frame members and glued together edge to edge, covering both sides of said frame from one vertical frame member to the other, and from one horizontal end frame member to the other, all of said vertical slats being provided with grooves for receiving said latter horizontal frame members, and all of said parts being glued together, and a covering of ornamental material glued to said slats and rectangular frame-work, to provide a finished surface for the door.

2,160,152
TAPE TRANSLATOR FOR CARD PUNCHING MECHANISM
Walter F. Kelley, Whitestone, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application July 3, 1937, Serial No. 151,870
25 Claims. (Cl. 164—115)



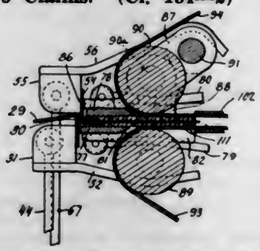
1. A perforated record having a plurality of perforation receiving fields, each field having six hole positions therein, combinations of one to a maximum of three perforations being variously disposed in said six hole positions, said combinations always omitting the simultaneous use of a preselected pair of said six hole positions to individually represent letters of the alphabet and digital characters; combinations of two to the maximum of six perforations being variously disposed in said six hole positions which combinations always include said preselected pair of hole positions, to represent machine operations.

2,160,153
CLUTCH FOR STATISTICAL MACHINES
Walter F. Kelley, Whitestone, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application July 3, 1937, Serial No. 151,870. Divided and this application January 13, 1938, Serial No. 184,717
7 Claims. (Cl. 192—84)



6. In a clutch of the class described, a rotary driving member, a rotary driven member, a plurality of armature segments disposed about and positively connected to one of said members but free to move radially thereon, a ring-shaped electromagnet on the other of said members and surrounding said plurality of segments, said electromagnets when energized being adapted to attract said segments, thereby coupling the two said members to rotate in unison.

2,160,154
METHOD FOR MAKING A PILE FABRIC
William D. Kellogg and Harry C. Eigabroadt, Amsterdam, N. Y., assignors to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application May 12, 1937, Serial No. 142,120
5 Claims. (Cl. 154—2)



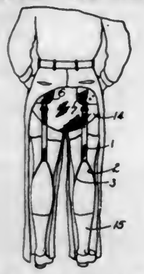
1. A method of producing a fabric which comprises applying a support of substantial thickness to a fibrous sheet, folding the remainder of the sheet transversely to produce a series of loops opening alternately in opposite directions and simultaneously advancing the folded portions of the sheet and the support through a passage engaging opposite faces of the support and the bent portions of the loops, the support being in leading position in such advance and the loops packed against the rear end of the support, and affixing webs of backing material to the bent portions of the loops beyond the passage.

2,160,155
WAX OR LIKE APPLICATOR
Russell B. Kingman, Orange, N. J.
Application March 15, 1937, Serial No. 130,822
4 Claims. (Cl. 91—54.7)



1. An applicator for the purposes described, comprising a casing having an open end, said casing being made of flexible impervious material, a core member filling the interior of said casing and terminating adjacent to the open end thereof, said core member comprising a plurality of corrugated holder sheets the channels of which extend longitudinally through the casing interior to the open mouth thereof, partition sheets disposed intermediate adjacent holder sheets, and masses of expressible wax material filling said holder sheet channels.

2,160,156
STOCKING SUSPENDER
Anne S. Kinnucan, Chicago, Ill.
Application July 30, 1938, Serial No. 222,172
1 Claim. (Cl. 241—3)

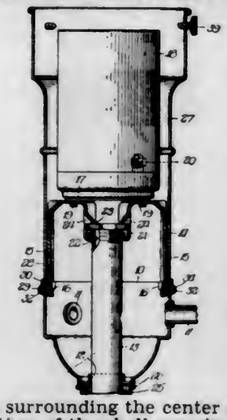


A supporter for a sock comprising a single elastic strap to be secured to the wearer's apparel adjacent his waist and hang downwardly along the rear side of his leg and having a length such that it terminates above his knee, a pair of cords attached to the lower end of said strap and adapted to be disposed one on each side of the wearer's leg from back to front, said cords extending below the knee of the wearer where the lower ends thereof are brought adjacent each other and are attached to a single hose clamp.

2,160,157
HOLDER ASSEMBLY FOR REFLECTOR TYPE FLOOR LAMPS
Peter Lebert, Chicago, and Rudolph Dack, Congress Park, Ill., assignors to G. & L. Machine & Tool Works, Chicago, Ill., a corporation of Illinois
Application May 7, 1938, Serial No. 206,614
6 Claims. (Cl. 240—81)

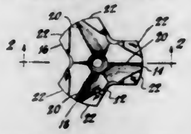
1. A holder assembly for reflector type floor lamps, characterized by a hollow upwardly opening cup-shaped body having a plurality of ra-

dially extending tubular arms for the reception of wires leading to lamp sockets on the outer ends of the arms, a strap of inverted U shape having its legs secured at their lower ends to the sides of the body and its top spaced a substantial distance above the open top of the body, whereby to provide openings at opposite sides of the strap for affording ready access to the inside of the body when wiring, a centrally arranged upwardly opening reflector-lamp socket secured at its bottom to the top of the strap, and a vertically re-



movable shell surrounding the center socket with the lower portion of the shell covering the openings at opposite sides of the strap and with the lower edge of the shell detachably secured to the rim of the cup-shaped body, the legs of the strap being attached to the rim only of the body above the level where the tubular arms enter the body and being spaced apart a distance substantially equal to the inside dimension of the shell, whereby to constitute a centering guide and inside reinforcement for the shell.

2,160,158
DRILL
John H. Lind, Santa Barbara, Mexico, assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application January 6, 1937, Serial No. 119,203
3 Claims. (Cl. 255—64)

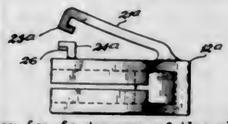


1. The combination with a drill rod of a three-winged drill bit having reamers wholly offset with respect to the cutters of the wings and means securing said bit to said rod.

2,160,159
CHEESE PRODUCT AND PROCESS OF MANUFACTURE
Erik Lundstedt, Goshen, and Joel Taub, Brooklyn, N. Y., assignors to Newark Cheese Co., Inc., a corporation of New York
No Drawing. Application September 24, 1937, Serial No. 165,484
11 Claims. (Cl. 99—117)

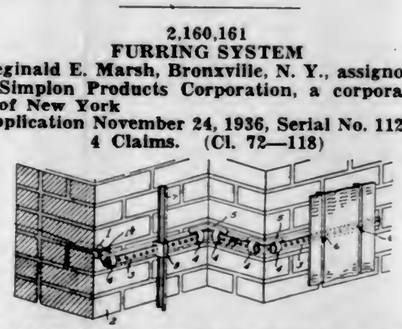
1. The process of making a pasteurized uncured soft cheese of the acid type, low fat content variety, which comprises introducing a slight percentage of butter fat in skimmed milk, forming therefrom a rather soft coagulum of minimum acidity that will allow cutting and handling of the curd, separating the curd from the whey to produce a relatively dry and smooth curd, adding a water binder, mixing the resulting mass and pasteurizing to form a plastic, free flowing mass.

2,160,160
SLIDER FOR SEPARABLE FASTENERS
Davis Marinsky and Louis H. Morin, Bronx, N. Y., assignors to Whitehall Patents Corporation, New York, N. Y., a corporation of New York
Application May 17, 1937, Serial No. 142,964
8 Claims. (Cl. 24—205)



1. A slider for fasteners of the class described, said slider comprising a unitary body of die-cast thermoplastic material, consisting of spaced side walls joined at one end by a connecting web, an arm integral with one wall of said body adjacent one end thereof and projecting in the direction of the other end of said body, the free end portion of said arm being normally arranged in spaced relation to said wall, the other end portion of said wall of the slider having an upwardly and outwardly projecting hook-shaped lug, and the free end portion of said arm having a downwardly and inwardly projecting hook-shaped part adapted to engage said lug.

2,160,161
FURRING SYSTEM
Reginald E. Marsh, Bronxville, N. Y., assignor to Simplon Products Corporation, a corporation of New York
Application November 24, 1936, Serial No. 112,455
4 Claims. (Cl. 72—118)



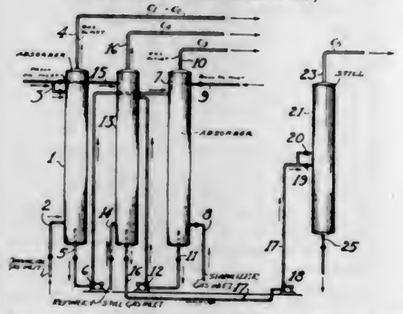
4. A system of furring comprising a series of wall brackets for supporting horizontal furring strips, each bracket including an end section arranged to support a furring strip, a series of trough-shaped furring strips mounted in the brackets and the ends of successive furring strips overlapping, and means securing the furring strips to the brackets.

2,160,162
ADHERENT GREASE AND METHOD FOR MANUFACTURING THE SAME
Arnold J. Morway, Roselle, and John C. Zimmer, Hillside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 14, 1935, Serial No. 11,002
9 Claims. (Cl. 87—9)

1. Method for preparing an adherent lime soap grease composition comprising thoroughly incorporating a lime soap into a lubricating oil while

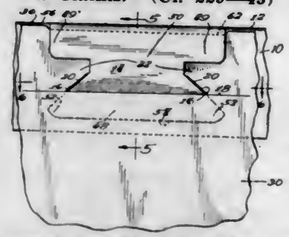
heating the mixture to form a rubber-free primary product having a substantially stable grease structure, forming a dispersion of rubber in an additional quantity of said lubricating oil, cooling the primary product, and incorporating said dispersion of rubber in oil with said product at substantially the temperature thereof.

2,160,163
PROCESS FOR FRACTIONATING GASEOUS MIXTURES
Henry Janney Nichols, Jr., Scotch Plains, and George L. Mateer, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application March 9, 1934, Serial No. 714,792
2 Claims. (Cl. 260—666)



1. A process for recovering from refinery gases of different compositions, mainly composed of C_1 to C_4 hydrocarbons, a gas mixture adapted for conversion by steam into hydrogen and a gas mixture composed mainly of C_3 hydrocarbons adapted for use in the manufacture of isopropyl alcohol, which comprises contacting a gas mixture relatively richer in C_1 and C_2 hydrocarbons than in C_3 and C_4 hydrocarbons with a sufficient amount of absorbent oil having solvent properties for all of the constituents to absorb hydrocarbons having more than 2 carbon atoms, whereby a residual gas composed mainly of C_1 and C_2 hydrocarbons is obtained and the absorbent oil is enriched in C_3 and C_4 hydrocarbons, and contacting the thus enriched oil with a gas mixture in which C_3 hydrocarbons predominate, and containing C_4 hydrocarbons, whereby, through the effect of vapor pressure, the C_3 hydrocarbons in the absorbent oil and in the gas mixture are given off and the oil becomes enriched in C_4 hydrocarbons.

2,160,164
CONTAINER
Frank D. Palmer, Chicago, Ill., assignor of one-third to Cranston Spray, Chicago, Ill.
Application September 22, 1937, Serial No. 164,999
2 Claims. (Cl. 229—45)



1. In a container of the class described having a top and a side wall, a headed tongue carried by said top and provided with terminally diverging rectilinear sides, a portion of said wall bearing a slot substantially longer than the width of said head for receiving said head quite easily therethrough, and means having slots divergingly intersecting said slot intermediate its ends and having a contour mating with said edges for engaging said edges in abutting relationship for retaining said head in said first slot against removal therefrom.

2,160,165
NONDILUTING COOLING DEVICE
John V. Patterson, Pittsburgh, Pa.
Application October 14, 1936, Serial No. 105,500
8 Claims. (Cl. 62—147)



1. In a cooling unit, a vessel containing a fluid to be cooled, said vessel having an open top portion, a lid for said open top portion, a container element containing a cooling medium, and a flexible spider removably positioning said element within said vessel adjacent said lid, said spider being detachable with respect to said lid.

2,160,166
LOUDSPEAKER
Hugo R. Pausin, Maplewood, N. J.
Application December 22, 1937, Serial No. 181,196
1 Claim. (Cl. 181—27)



In a loud speaker device, a housing comprising an upper section having sides, a lower section having flat side walls and a relatively wide rectangular mouth, said lower section having a curved intermediate wall and a curved lower wall spaced from each other to provide a curved channel communicating with the mouth, the upper section being substantially semi-cylindrical and having a curved upper wall and a curved lower wall spaced from each other to form a curved channel in the upper section communicating with the channel in the lower section, said lower section having a curved upper wall spaced from the intermediate wall to form a narrow channel communicating with the channel in the upper section, removable flat plates closing the sides of the upper section, means for tightly securing the upper section to the lower section to provide a moistureproof structure, and a bridge on the

lower section positioned adjacent and above the mouth of said narrow channel for supporting a sound reproducing unit.

2,160,167

PROCESS AND MEDIA FOR THE PRESERVATION OF GREEN FODDER

Gustav Pfeiffer, Bonn-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application October 22, 1938, Serial No. 236,581. In Germany March 17, 1937

6 Claims. (Cl. 99—8)

1. The process for preserving green fodder which comprises storing the fodder in the presence of a watersoluble nitrite and a non-toxic formate.

2,160,168

PROCESS AND MEDIA FOR THE PRESERVATION OF GREEN FODDER

Gustav Pfeiffer, Bonn-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Original application October 22, 1938, Serial No. 236,581. Divided and this application February 17, 1939, Serial No. 256,861. In Germany September 20, 1937

7 Claims. (Cl. 99—8)

1. The process for preserving green fodder which comprises storing the fodder in the presence of a watersoluble nitrite and a non-toxic acid amide.

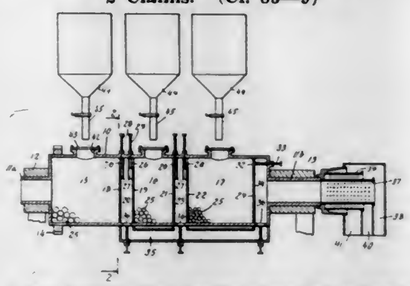
2,160,169

MILL

Carl Pontoppidan, Holte, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

Application June 18, 1937, Serial No. 148,919 In Great Britain June 18, 1936

2 Claims. (Cl. 83—9)



1. In a mill, the combination of a rotatable housing having an inlet and an outlet and subdivided into at least three grinding chambers by pairs of spaced perforated partitions having openings of substantial size therethrough, valves for controlling said openings, charges of grinding bodies in the chambers, each pair of partitions defining a compartment between them which is free of grinding bodies during the normal operation of the mill, a perforated partition adjacent to the outlet defining one end of the third chamber and spaced from the outlet to provide an outlet compartment, said partition having an opening of substantial size therethrough, a conduit mounted on the outside of the housing and extending lengthwise thereof, said conduit being in communication with the compartments through openings in the housing wall, and valves for controlling said openings.

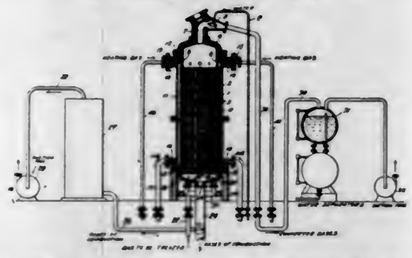
2,160,170

HEAT TREATMENT OF HYDROCARBON GASES TO DEHYDROGENATE THE SAME

Friedrich Martin, Oberhausen, Heinrich Tramm, Oberhausen-Holten, and Reinhard Jung, Oberhausen-Sterkrade, Germany, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany

Application June 21, 1935, Serial No. 27,688 In Germany March 18, 1935

8 Claims. (Cl. 260—679)



1. The method of chemical conversion of hydrocarbon gases into other compounds containing C and H which comprises passing such gas under a pressure far below atmospheric pressure over and in contact with a highly refractory substantially non-porous material practically free from silica and iron which has been preheated under a materially higher pressure to a temperature above 1000° C. and remains substantially non-porous at such temperature.

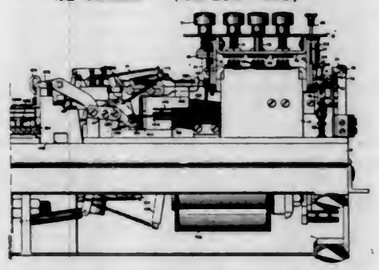
2,160,171

CARD PUNCH

Edwin Roggenstein, Ilion, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application November 4, 1937, Serial No. 172,703

21 Claims. (Cl. 164—113)



1. In a card perforating device, a keyboard adapted to be set in one of a plurality of positions, punching means actuated by the keyboard, and lever means for alternately shifting said keyboard transversely to one or the other of two positions.

2,160,172

POLYMER COMPOSITION

Raphael Rosen, Elizabeth, and Robert M. Thomas, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 25, 1936, Serial No. 92,506

10 Claims. (Cl. 260—94)

1. A polymer composition of increased stability toward heating, comprising a substantially saturated acyclic linear hydrocarbon polymer of high molecular weight normally resistant to oxidation and .01–5% of thio phenolic compound.

2,160,173

GARMENT HANGER

Henry C. Ruen, Detroit, Mich., assignor, by mesne assignments, to Star-Service Hanger Company, Detroit, Mich., a corporation of Michigan

Application July 29, 1935, Serial No. 33,629

1 Claim. (Cl. 223—92)



A garment hanger comprising a pair of oppositely extending tubular garment supports having adjacent flattened end portions, a pair of inserts entered in and conforming to said flattened end portions to restrain the tubular supports from rotation, a shank disposed between and carrying said inserts, and a fastener interconnecting the tubular supports, said shank and inserts being integrally formed of wire.

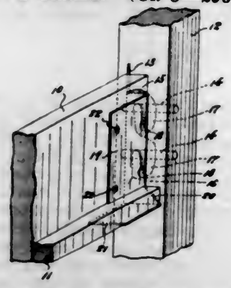
2,160,174

BEDSTEAD COUPLING CONNECTION

Louis Scalera, Newark, N. J.

Application November 8, 1938, Serial No. 239,483

4 Claims. (Cl. 5—296)



1. In means for detachably coupling a side member to a corner post of a bedstead, said side member being provided along its inner face, contiguous to its lower longitudinal edge, with a laterally projecting rest for slats, springs or the like; a unitary coupling connection affixed to said side member comprising, an end plate to abut the side member end, a side plate to abut the inner face of said side member, and a bottom plate springing from the lower end of said end plate to extend beneath and in supporting relation to both the bottom edge of said side member and the underside of the rest carried by the latter; and freely projecting coupling means extending from said end plate and adapted to be detachably engaged with cooperating coupling means with which the bedstead corner post is provided.

2,160,175

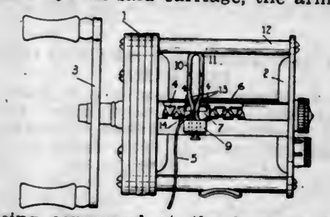
LEVEL WIND FISHING REEL

William Shakespeare, Jr., Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich.

Application August 23, 1937, Serial No. 160,392

8 Claims. (Cl. 242—84.4)

1. In a fishing reel, the combination with a frame and spool journaled therein, of a traversing shaft, a line guide carriage operatively associated with said shaft, a housing for said shaft and carriage, said carriage having a part projecting forwardly of said housing, and a loop-like line guide eye on said carriage, the arms of the



loop being converged at the lower end of the loop so that they lie in parallel relation and in close proximity to each other for a substantial distance at the lower end of the eye providing a spring line engaging clip at the base of the eye and integral therewith.

2,160,176

TREATMENT OF TEXTILE MATERIALS

Joseph Harrel Shipp, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 13, 1938, Serial No. 184,766

6 Claims. (Cl. 8—116)

1. The process of treating textile material whereby to impart thereto water-repellent properties, which comprises impregnating the same with a compound of the general formula

$$RCONH—CH_2—N(tert)—X,$$

wherein R is an alkyl radical containing not less than 7 carbon atoms, N(tert) represents the molecule of a tertiary base, and X stands for the acidic radical of an organic acid whose dissociation constant is less than 0.01, and then subjecting the impregnated material to heat treatment in the absence of moisture at a temperature between 90 and 140° C.

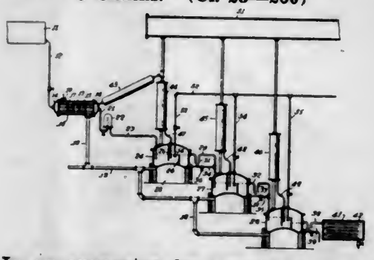
2,160,177

APPARATUS FOR CARRYING OUT CHEMICAL REACTIONS

Royal L. Shuman, Newark, N. J., assignor to Celluloid Corporation, a corporation of New Jersey

Original application April 13, 1934, Serial No. 720,448. Divided and this application June 18, 1936, Serial No. 85,953

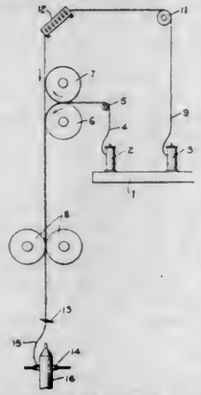
5 Claims. (Cl. 23—260)



1. In an apparatus for carrying out chemical reactions, the combination with a source of supply of reactants, of means for preheating said reactants, a series of directly interconnected reaction chambers connected to said preheating means, baffle plates in said reaction chambers

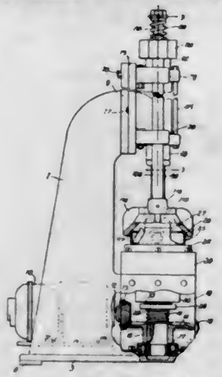
arranged so that they partially separate newly added reactants from the reactants already in said chambers, means for separately heating each of said reaction chambers and means for passing the reaction products from one reaction chamber directly to the one next in the series.

2,160,178
YARN AND FABRIC AND METHOD OF MAKING SAME
Richard R. Sitzler and Laurence C. Holt, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
Application November 16, 1937, Serial No. 174,812
3 Claims. (Cl. 57—12)



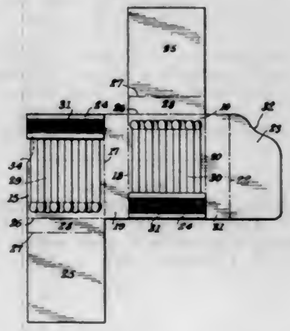
1. A device for making yarn from a preformed yarn and a staplized yarn comprising in combination with a creel adapted to support a plurality of supply packages for each yarn to be formed, of means for severing some filaments of a continuous filament yarn, means for drafting said yarn after some of the filaments have been severed, a tensioning device for regulating the feeding of the preformed yarn and means for twisting together the staplized yarn and the preformed yarn.

2,160,179
METHOD OF AND MEANS FOR ROLLING BANJO TYPE AXLE HOUSINGS
George Spatta, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application November 23, 1936, Serial No. 112,248
10 Claims. (Cl. 153—54)



10. In a machine for straightening inturned flanges of a channel-shaped hoop section, a supporting frame, an anvil carried by the frame and adapted to support the work, a rotatable work-engaging member reciprocably mounted with respect to the anvil, mechanism movable toward the anvil including means for centering the work on the anvil, and means for then pressing the work-engaging member into engagement with one of said flanges, and a lost-motion connection between said centering means and said pressing means.

2,160,180
MATCH PACKAGE
Albert F. Stone, Summit, N. J.
Application June 17, 1936, Serial No. 85,627
7 Claims. (Cl. 206—29)

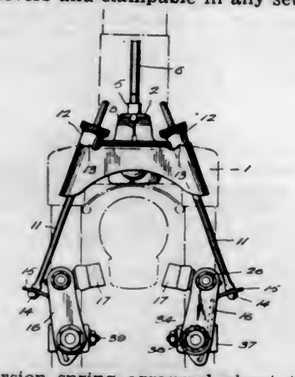


1. A match package comprising a folder having a front and a back hingedly connected in substantially parallel side by side relation by an intervening narrow side, match securing and covering flaps projecting from the oposite ends of said front and back, a complementary narrow side hingedly connected with the side edge of said back and a tuck flap hingedly connected with the edge of said last mentioned narrow side, match cards secured over the inner faces of said front and back, said securing and covering flaps being turned in over the opposite ends of said match cards and forming, when the front and back are folded together in face to face relation, ends for the package and said tuck flap entering between the front and the match card attached thereto to retain the second narrow side in position holding the front and back together in the face to face relation described.

2,160,181
CYCLE AND LIKE BRAKE
Frank Walter Taylor, Birmingham, England, assignor to H. C. Webb & Co. Ltd., Witton, Birmingham, England, a British company
Application February 28, 1938, Serial No. 192,907
In Great Britain November 25, 1936
11 Claims. (Cl. 188—24)

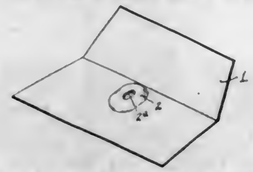
1. Cycle and like brake comprising in combination levers carrying brake blocks for operating on opposite sides of a cycle wheel, said levers being pivoted on a part of the cycle and like frame through which the wheel rotates, a floating compensating yoke bar for mounting above the wheel to which yoke bar an operating member is connected, an adjustable pull rod at each end of the compensating yoke bar connecting that bar to an arm on each of said levers, shoes

for carrying the brake blocks pivotally mounted on said levers and clampable in any set position,



and a torsion spring arranged about the pivot of each lever and means for adjusting said spring.

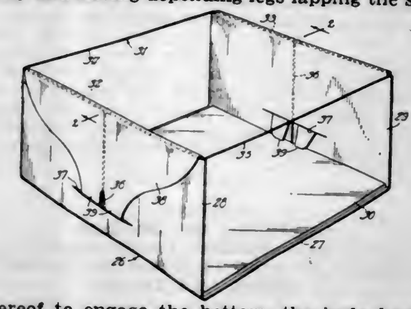
2,160,182
APPARATUS FOR MAKING RUBBER FLOOR COVERINGS
William S. Vrooman, Pontiac, Mich., assignor to The Paine & Williams Company, Cleveland, Ohio, a corporation of Ohio
Original application March 18, 1933, Serial No. 661,453. Divided and this application May 17, 1937, Serial No. 143,112
1 Claim. (Cl. 18—19)



Apparatus for making an integral preshaped rubber mat for humped automobile or like floors, such mat having a major portion designed to lie in a single plane and a relatively minor portion contoured to fit the hump in such floor, such apparatus comprising a rigid member having a flat face and a recess or cavity in said face, the area of said recess being less than the area of the remainder of the face, a plate substantially coextensive with said face, means removably securing said plate with said member, a diaphragm marginally sealed to said plate and disposed to lie between the same and such recessed face, connections for introducing fluid pressure between said plate and diaphragm, whereby when a mat is positioned between said diaphragm and the recessed face of said member and fluid pressure is introduced between said plate and diaphragm, the major portion of such mat is first pressed and held against the flat surface of said member and then the portion of the mat overlying said recess is distended and stretched into engagement with the walls of said recess.

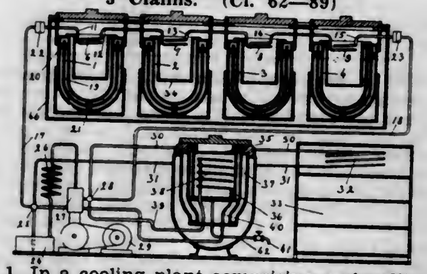
2,160,183
ART OF PACKAGING
Tracy C. Weltmer, Kansas City, Mo., assignor, by mesne assignments, to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware
Application June 10, 1935, Serial No. 25,779
5 Claims. (Cl. 206—44)

1. A display container comprising a body of light cardboard bent to form a bottom and two sides, a rectangular wire frame having a rectangular portion defining the upper perimeter of the body and having depending legs lapping the sides



thereof to engage the bottom, the body having flaps folded upon the sides over a portion of the wire frame defining said upper perimeter and secured to the body to maintain the assembly of body and frame together in box-like form.

2,160,184
COOLING PLANT
Theodor Wilhelm, Zurich, Switzerland
Application May 26, 1936, Serial No. 81,959
In Switzerland July 6, 1935
3 Claims. (Cl. 62—89)



1. In a cooling plant comprising a plurality of glass vacuum vessels for the reception of goods, each glass vacuum vessel having an opening on top for taking the goods out, formed with a closed bottom and having an insulated wall between the walls of the glass vacuum vessel.

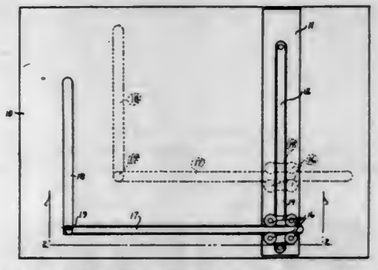
2,160,185
ELECTRICALLY HEATED BROODER
Charles H. Willauer, Quakertown, Pa.
Application November 2, 1936, Serial No. 108,761
4 Claims. (Cl. 119—33)



1. A brooder having a brooding space, a blower,

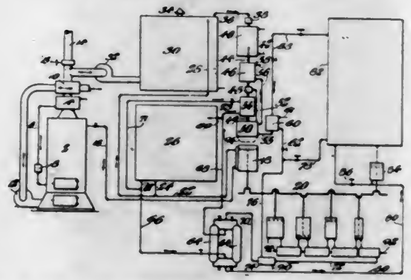
and a heater housing containing a heater between said blower and brooding space, said brooder having passages through which air is discharged from said blower to said heater housing and thence to said brooder space, the bottom of said heater housing containing a passage communicating with said brooder space, and damper mechanism movable into position for closing either said passage through the bottom of the heater housing or said passage from the blower to the heater housing, and permitting circulation over the heater in either position of said damper mechanism.

2,160,186
DRAFTING MECHANISM
Benjamin H. Williams, Des Moines, Iowa
Application November 14, 1938, Serial No. 240,253
2 Claims. (Cl. 33—76)



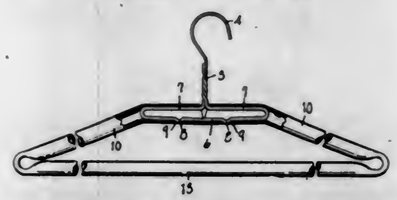
1. In a drafting mechanism, a base portion, an elongated recess formed in said base portion, a track bar member rigidly secured to and spaced from said base portion within said recess, a plate member, roller elements rotatably mounted on the lower side of said plate member capable of operatively engaging said track bar, roller elements rotatably secured to the upper side of said plate member and directly above said first mentioned roller elements, and a drafting guide designed to be operatively engaged by said second mentioned rollers at times; said drafting guide having a bar formed on one of its end portions extending at right angles to said drafting guide and capable of being moved in any direction through the operation of said roller elements on said drafting guide and said track bar.

2,160,187
AIR AND COMBUSTION PRODUCTS RECOVERY SYSTEM AND APPARATUS THEREFOR
Joseph F. Winkler, Philadelphia, Pa.
Application October 9, 1937, Serial No. 168,194
6 Claims. (Cl. 62—121)



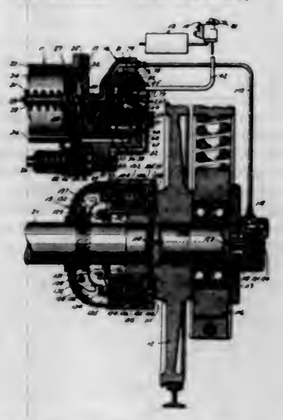
1. Apparatus for producing solid carbon dioxide, comprising means for separating carbon dioxide from combustion gases, means for subjecting the carbon dioxide to the refrigerating action of nitrogen at a temperature below minus 105° F., and means for maintaining the carbon dioxide under substantially atmospheric pressure during the process of refrigeration.

2,160,188
GARMENT HANGER
Leonard A. Young, Detroit, Mich.
Original application October 10, 1935, Serial No. 44,313. Divided and this application April 9, 1937, Serial No. 135,865
8 Claims. (Cl. 223—92)



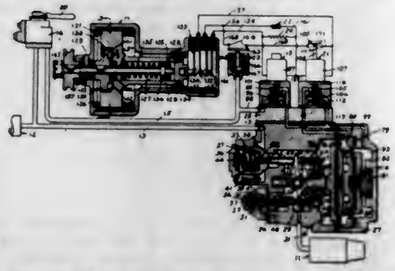
1. A garment hanger comprising a wire yoke having opposed loop-like arms provided with a suspending hook, and tubular hanger arms of fibrous material telescoped on said yoke arms, the internal diameter of the hanger arms being such that they are distended and clutched on the yoke arms, the yoke arms having retaining lugs and the hanger arms having openings receiving such lugs.

2,160,189
BRAKE CONTROL MEANS
Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application November 24, 1937, Serial No. 176,184
23 Claims. (Cl. 303—21)



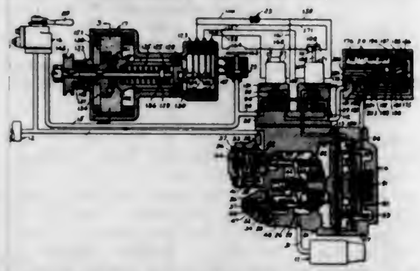
1. In a fluid pressure brake system for a vehicle, in combination, a brake cylinder having a piston and two chambers disposed respectively on opposite sides of the piston, means for supplying fluid under pressure to a chamber on one side of the piston, valve means operated upon a variation of pressure therein to connect said two chambers together, and means responsive to a vehicle wheel slipping condition for effecting a variation of pressure in said valve means.

2,160,190
BRAKE CONTROL MEANS
Richard L. Nash, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 25, 1938, Serial No. 192,516
24 Claims. (Cl. 303—21)



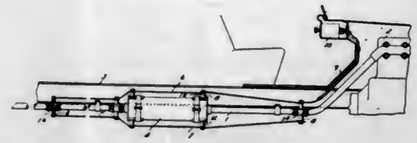
1. A vehicle brake equipment comprising control means, relay means controlled by the control means for effecting application and release of the brakes on a vehicle wheel, means effective upon slipping of the vehicle wheel during an application of the brakes for causing operation of the relay means to effect first the release and then the reapplication of the brakes on the wheel, and means for delaying operation of the relay means to effect reapplication of the brakes on the wheel for a limited time after the wheel-slip responsive means is conditioned to effect reapplication of the brakes.

2,160,191
BRAKE CONTROL MEANS
Ellery R. Fitch, Irwin, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 26, 1938, Serial No. 192,720
14 Claims. (Cl. 303—21)



1. A vehicle brake equipment comprising fluid pressure operated means responsive to the supply of fluid under pressure thereto to effect application of the brakes and to the release of fluid under pressure therefrom to effect release of the brakes, means providing a communication through which fluid under pressure is supplied to and released from the fluid pressure operated means, wheel-slip detecting means, a valve device controlled by the wheel-slip detecting means for controlling the supply of fluid under pressure through the said communication to the fluid pressure operated means and the release therefrom, and valve means normally closing the said communication between the valve device and the fluid pressure operated means and operative to open said communication in response to the pressure of fluid supplied into the communication under the control of the said valve device.

2,160,192
AUTOMOBILE AERIAL
Lyle C. Armstrong, Detroit, Mich.
Application November 11, 1936, Serial No. 110,210
2 Claims. (Cl. 250—33)



1. An aerial for use in an automobile having a radio set, an engine, an exhaust conduit and a muffler, comprising an aerial wire extending longitudinally of the exhaust conduit and muffler in sufficiently closely spaced relation therewith to be heated by the heat radiating from the exhaust conduit and muffler to maintain the same in dry condition and free from ice, and a series of insulators secured to the exhaust conduit and muffler in spaced relation longitudinally thereof to which the aerial wire is connected and so positioned in respect to adjacent metal parts as to limit the capacity coupling therebetween.

2,160,193
ROAD BUILDING MACHINE
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works and Manufacturing Company, a corporation of Ohio
Application June 9, 1933, Serial No. 675,079
34 Claims. (Cl. 37—150)

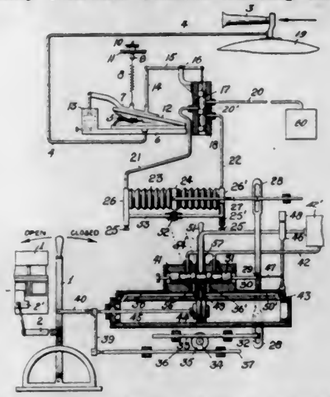


29. The combination with a road working machine, of a straight edge device extending along one side of the machine approximately the full length thereof, and adjustable resilient means between said straight edge device and the adjacent side of said machine for yieldingly supporting such adjacent side of said machine at adjusted elevation while said device engages the ground.

2,160,194
AUTOMATIC ENGINE THROTTLE CONTROL
Mortimer F. Bates, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application March 25, 1936, Serial No. 70,794
8 Claims. (Cl. 244—1)

1. In an aircraft, an engine throttle, a hydraulic cylinder and piston connected for automatically operating said throttle, by-pass means provided in connection with said cylinder for shutting off the same to enable manual operation and setting of said throttle, valve means for controlling the operation of said motor, a follow-up connection between said valve means and said throttle, and a pneumatic accordion the position of which is proportional to the speed of the aircraft free air stream also connected to said valve means, whereby, upon the manual setting of said throttle and the operation of said by-pass means to start said motor, said pneumatic means acting in conjunction with said follow-up connection so controls said valve means

as to hold the air speed of the aircraft substantially constant without hunting and at the



value determined by the initial manual setting of said throttle.

2,160,195

PROCESS AND FLUX FOR SOLDER BONDING ON COATED METAL SURFACES

Norman J. Beno, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application February 18, 1935, Serial No. 7,145

3 Claims. (Cl. 113—112)

1. A surface treatment and fluxing composition for solder bonding on steel surfaces having protective coatings of zinc and like metals thereon, comprising approximately 9½ pounds of stannous chloride, approximately 3 pounds of zinc chloride and approximately 3 percent of ammonium chloride dissolved in water to provide an aqueous solution having a density of approximately 70 degrees Bé. at room temperature.

2,160,196

SULPHONAMIDE RESIN

Herman A. Bruson and John W. Eastes, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.

No Drawing. Application October 9, 1937, Serial No. 168,171

18 Claims. (Cl. 260—72)

1. The process which comprises reacting an aliphatic polysulphonamide with an aldehyde.

3. The process of producing a resinous material which comprises condensing a member of the group consisting of alkylene and polyalkylene ether disulphonamides with formaldehyde.

2,160,197

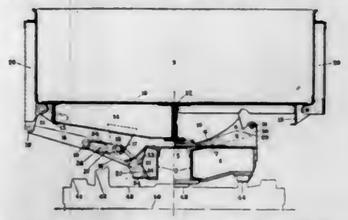
CAR DOOR CONTROL

Charles H. Clark, Bethel Township, Allegheny County, Pa., assignor, by mesne assignments, to Henry Fort Flowers, Findlay, Ohio

Application May 31, 1928, Serial No. 281,874

3 Claims. (Cl. 105—264)

1. In a dump vehicle, an underframe, a body, means for supporting said body on said underframe whereby the body may be selectively tilted for dumping to one side or the other on axes approaching the dumping side, side doors hinged to the body to fold down for opening, and independent devices for each door for automatically controlling the opening and closing of the door through which dumping is to be effected, for holding the door closed at the elevated side, and for holding the doors closed during transit, each door controlling device including a bell crank pivotally supported on the body, a link connecting one



arm of said bell crank with a door extension, said arm and said link serving as a self-locking toggle for locking the door when in closed position, the other arm of said bell crank having a loose shiftable connection with the underframe during transit and dumping.

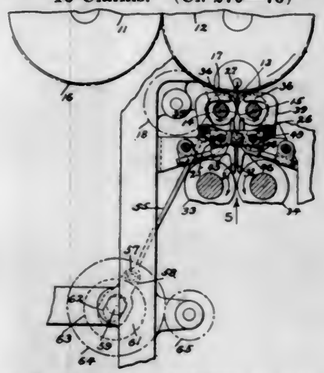
2,160,198

SHEET FOLDING MECHANISM

Herman P. Clauberg, Hasbrouck Heights, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application September 5, 1936, Serial No. 99,508

16 Claims. (Cl. 270—76)



12. In a mechanism adapted to fold products forwarded by a printing machine, a folding cylinder adapted to receive the products and having a folding blade, a pair of folding rollers supported adjacent the cylinder and cooperating with the folding blade to fold the products, and opposed members movable into engagement with that portion of the product between the cylinder and the rollers while it is being fed between the rollers, to prevent the trailing edges of the product from whipping.

2,160,199

VEHICLE WHEEL

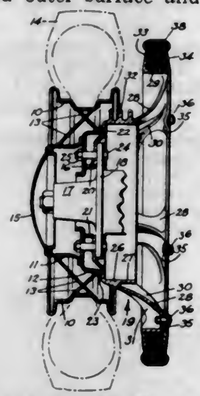
Arnold J. Cornelissen, Buffalo, N. Y.

Application April 16, 1936, Serial No. 74,746

1 Claim. (Cl. 301—39)

An auxiliary wheel for vehicles comprising a spider having an inner substantially radially extending, circular plate portion, an annular flange extending from the periphery of said plate portion to provide an internal braking surface, and arms of one piece with and extending from the

outer surface of said annular flange and terminating in an annular clamping flange, a clamping ring associated with said clamping flange, a tire member held between said clamping ring and clamping flange, the plane of rotation of said tire member being offset from the plane of rotation of said braking surface and said arms being provided upon their opposite sides with web portions, the web on one side of each arm member beginning at said outer surface and diminishing in



size toward said clamping flange and the web on the opposite side of said arm member beginning at said clamping flange and diminishing in size toward said outer surface, whereby the two webs are complementary and provide a stress reducing element of substantially uniform cross section extending between said outer surface and said clamping flange, and means associated with said inner plate portion for securing the entire assembly to the main wheel of a vehicle.

2,160,200

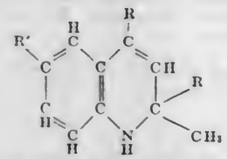
ANTIOXIDANT FOR RUBBER COMPOSITION

Raymond F. Dunbrook and Bingham J. Humphrey, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application December 21, 1936, Serial No. 117,006

8 Claims. (Cl. 18—50)

5. The method of retarding the deterioration of rubber which comprises treating the rubber with a 1,2-dihydroquinoline of the general formula



wherein R is a member of the group consisting of methyl, ethyl, propyl, isopropyl, and butyl radicals, and R′ is a member of the group consisting of phenyl, tolyl, and xylyl radicals.

2,160,201

MANUFACTURE OF FILTER TIP CIGARETTES

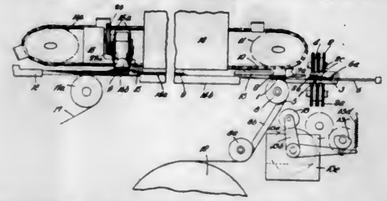
William Frederick Maitland Edwards, London, England, assignor to Filter Tips Limited, London, England, a British company

Application February 5, 1935, Serial No. 5,115

In Great Britain February 12, 1934

2 Claims. (Cl. 131—39)

1. In the manufacture of filter tip cigarettes, the method of producing a compact filter tip filling comprising transversely cutting strips from a length of multilayer crepe paper, feeding said cut strips at spaced intervals onto a traveling continuous paper strip, positioning a tobacco



intercepting element over said cut strips and moving the same along with said traveling paper strip, depositing tobacco on said traveling paper strip, cutting the deposited tobacco at the ends of said intercepting element, and removing the tobacco from said intercepting means.

2,160,202

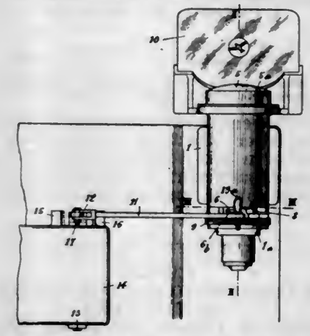
RANGE-FINDING AND FIRE-CORRECTION SIGHTING DEVICE

Jean Fieux, Paris, France, assignor of one-half to Schneider & Cie, Paris, France, a joint-stock company of France

Application December 23, 1938, Serial No. 247,506

In France October 15, 1937

5 Claims. (Cl. 88—2.3)



1. In a range-finder, the combination of a transparent member through which the target may be observed, means including a lens and an iris diaphragm disposed in the focal plane of said lens for producing an image of the opening of said diaphragm on said transparent member, control means for varying the size of the opening of said diaphragm, relatively movable scale and index-carrying members one of which is fixed relatively to said transparent member, a kinematic linkage connecting the other of said relatively movable members and said diaphragm control means, and means for varying the transmission ratio of said linkage.

2,160,203

DISPLAY CARTON

Wilfred M. Gamble, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois

Application November 4, 1937, Serial No. 172,773

2 Claims. (Cl. 206—44)

2. A fly swatter display container, comprising front and rear walls provided with means for suspending the container adjacent one end and a supporting bottom section on the other end, and side walls extending between said front and rear walls, said side sections having upper ver-

tical slots for receiving the swatter portion of fly swatters and lower handle-receiving openings



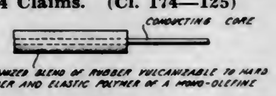
positioned to provide for engagement of the edges of fly swatters with said upper slots.

2,160,204

INSULATION OF ELECTRICAL CONDUCTORS

Willis A. Gibbons, Montclair, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application December 3, 1936, Serial No. 113,999
4 Claims. (Cl. 174—125)



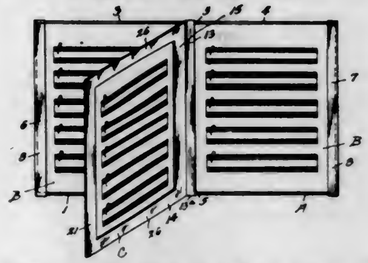
1. A flexible electrical conductor comprising an insulation layer which is the product of vulcanization of a mix comprising rubber, sulphur in an amount sufficient to convert the rubber on cure to hard rubber, and an elastic high-molecular weight polymer of isobutylene.

2,160,205

FOLDER CONSTRUCTION FOR SHEET MUSIC OR THE LIKE

Albert P. Gruner, Cleveland, Ohio

Application October 7, 1937, Serial No. 167,727
1 Claim. (Cl. 129—20)



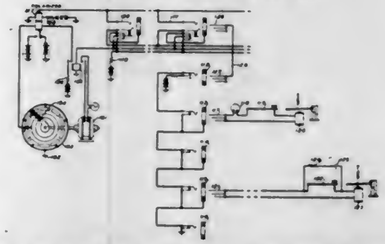
A folder construction for sheet music or the like, comprising, in combination, a cover member having a crease for dividing the same into a rear and front cover portion foldable upon each other, a flat bridge member on said cover member adjacent its crease extending parallel thereto over the inner side of the cover member, means for securing said flat bridge member to the cover member and for holding said bridge member in close relation to the inner side of the cover member for permitting introduction of a leaf of sheet music between said bridge member and cover, means for attaching said leaf of sheet music to the cover member, an open frame structure for carrying another leaf of sheet music with both sides thereof visibly disposed on said frame structure and comprising a flexible part for hingedly attaching said frame structure to said flat bridge member, and means for securing said another leaf to said frame structure.

2,160,206

TELEGRAPH SYSTEM, OPEN MORSE TELEGRAPH KEY ALARM CIRCUIT

Frank Harold Hanley, Butler, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York

Application December 21, 1937, Serial No. 181,045
7 Claims. (Cl. 178—69)



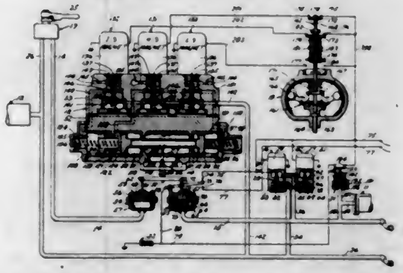
4. In a telegraph system, a central switching station, a local telegraph station, a telegraph loop connecting said stations, a telegraph key, a pair of cooperating contacts normally closed when said key is idle on said key, an electrical circuit comprising a condenser shunting said contacts and a telegraph sounder, said key, condenser and sounder all connected to said loop at said local station, a plurality of operators' positions at said central station, a circuit for supplying alternate pulsations of positive and negative electromotive force common to said positions, individual outlets in said common circuit at each of said positions and flexible means comprising jacks and plugs also at each of said positions for interconnecting one of said outlets and said loop to operate said sounder when said key is inadvertently left open.

2,160,207

SPEED CONTROLLED BRAKE

Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application July 16, 1937, Serial No. 153,912
18 Claims. (Cl. 303—21)



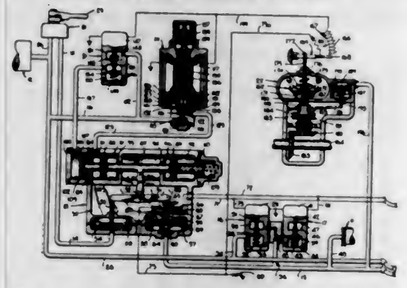
1. In a vehicle brake system, brake control means including a pivoted lever subject to the opposing moments exerted by a control pressure and a supply pressure which determines the degree of application of the brakes, a fulcrum for said lever arranged to move to different positions to cause variations in the ratio between the control pressure and the supply pressure, means providing a chamber, a movable abutment shifted to different positions according to the pressure in the said chamber for correspondingly shifting the said fulcrum, a valve device for controlling the supply of fluid under pressure to and the release of fluid under pressure from said chamber, and independent means for timing the rate of release of fluid under pressure from said chamber.

2,160,208

SPEED CONTROLLED BRAKE

Donald L. McNeal, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application July 24, 1937, Serial No. 155,452
10 Claims. (Cl. 303—21)



1. In a vehicle brake system, brake control means including a pivoted lever subject to the opposing moments exerted by a control pressure and a supply pressure which determines the degree of application of the brakes, a fulcrum for said lever movable to different positions to vary the ratio between the control pressure and the supply pressure, means providing a chamber adapted to be charged with fluid at different pressures, a movable abutment shiftable to different positions according to the pressure in said chamber for causing a corresponding shifting of the said fulcrum, and a variably excited current-responsive device for causing variation in the pressure in said chamber corresponding to variation in the exciting current thereof.

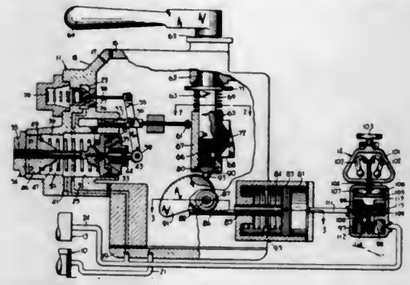
2,160,209

FLUID PRESSURE BRAKE

John Canetta, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application April 24, 1937, Serial No. 138,740
27 Claims. (Cl. 303—21)

1. A self-lapping brake valve device comprising, in combination, a casing having a chamber, a supply valve, a release valve, an operating element movable different degrees out of a normal position, and a rotary cam element rotarily movable in accordance with the movement of said operating element for effecting operation of said valves to establish in the said chamber a fluid pressure corresponding to the degree of movement of the operating element out of its normal position, said cam element being so constructed and arranged as to be shiftable axially to different positions and effective, in the different axial positions thereof, to cause operation of the said valves to establish corresponding different degrees of pressure in said chamber for operation



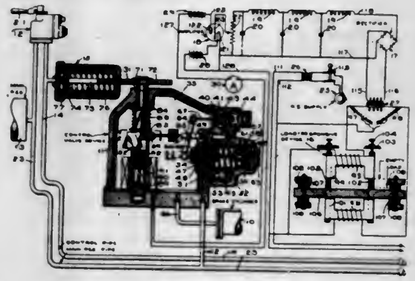
of the said operating element a given degree out of its normal position.

2,160,210

VARIABLE LOAD BRAKE

John Canetta, Wilkinsburg, and John B. Grosswege, Edgewood, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application August 24, 1937, Serial No. 160,592
23 Claims. (Cl. 303—22)



1. A vehicle variable load brake equipment comprising a Wheatstone bridge circuit having at least one impedance coil, means for varying the impedance of said coil in response to variations in the load carried on the vehicle to cause corresponding variations in the degree of voltage unbalance on the bridge circuit, and brake control means controlled according to the degree of voltage unbalance on the bridge circuit for controlling the degree of a brake application.

2,160,211

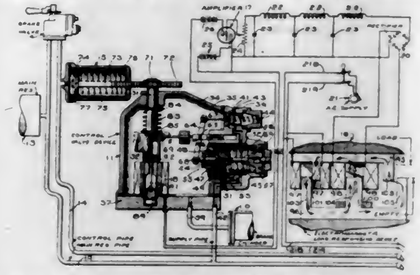
VARIABLE LOAD BRAKE

John Canetta, Wilkinsburg, and John B. Grosswege, Edgewood, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application April 27, 1937, Serial No. 139,128
21 Claims. (Cl. 303—22)

1. In a vehicle brake equipment, in combination, a pair of inductively coupled coils, one of which has a substantially constant alternating current voltage impressed thereon and the other of which has a voltage induced therein upon energization of the said one coil, means for varying the flux coupling the two coils, without varying the effective alternating current voltage impressed on said one coil to cause the voltage induced in the said other coil to vary according to

a variable operating condition of the vehicle, and means controlled according to the voltage induced



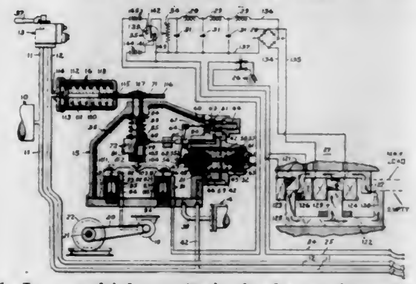
in said other coil for correspondingly controlling the degree of application of the brakes.

2,160,212

SPEED AND LOAD CONTROLLED BRAKE

John Canetta, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application November 27, 1937, Serial No. 176,927
22 Claims. (Cl. 303—21)



1. In a vehicle or train brake equipment, in combination, brake control means having an operating element and operative to effect application of the vehicle brakes to a degree corresponding substantially to the displacement of the said element out of a normal position, cam means for conditioning the said brake control means differently to cause it to effect different degrees of application of the brakes for a given displacement of said element out of its normal position, and means controlled according to a plurality of variable operating conditions of the vehicle for controlling said cam means.

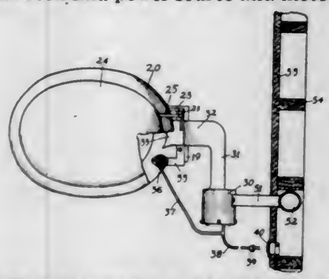
2,160,213

CLOSET VENTILATOR

William M. Hoffman, Youngstown, Ohio

Application May 17, 1937, Serial No. 143,013
5 Claims. (Cl. 4—213)

1. The combination with a closet bowl having a rearwardly extending projection at its upper end and a seat resiliently spaced from said bowl and hingedly mounted on vertical bolts passing through said projection, of a ventilating means therefor comprising a housing having a projecting nozzle adapted to be positioned between a portion of said bowl and said seat and between said bolts, a strap rigidly secured to said nozzle, said bolts clamping said strap to said projection, an air circulating means in said housing, an outlet duct for said housing, a flue connected with said outlet duct, a motor driving said air circulating means, a source of current for said motor, and a switch operable by weight on said seat connected between said power source and motor, said



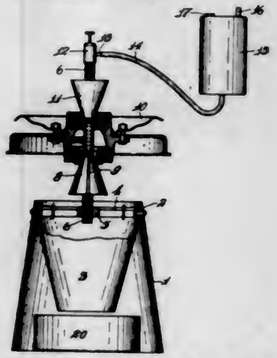
switch being supported on said strap directly beneath a portion of said seat whereby downward movement of said seat actuates said switch.

2,160,214

APPARATUS FOR FLUSHING AND REPACKING AUTOMOBILE WHEELS

Cecil Jackson, Sardis, Ohio

Application November 22, 1938, Serial No. 241,785
5 Claims. (Cl. 184—1)



1. A device for lubricating the hub and bearings of an automobile wheel comprising a tube, a member received on said tube and adapted to underlie one of the hub bearings and support the wheel in encircling relation on said tube, a second member received on the tube and adapted to contact the other of said hub bearings, perforations in said tube adapted to be disposed within the hub of the wheel to be lubricated, and means for introducing a substance under pressure into said tube to be expelled therefrom through said perforations into the wheel hub.

2,160,215

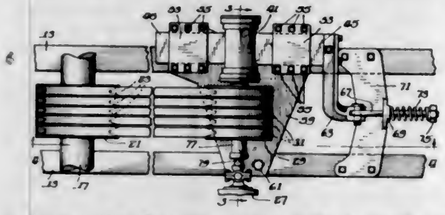
TRANSMISSION

Leslie K. Jackson, Chicago, Ill., assignor to North American Car Corporation, Chicago, Ill., a corporation of Illinois

Application June 6, 1936, Serial No. 83,831
5 Claims. (Cl. 105—107)

1. The combination with a car having a main frame and a truck mounted axle, of a power operated device rigidly mounted on the frame of said car, and means to drive said device from said truck mounted axle comprising a driving pulley on said axle, a driven pulley shiftably mounted on the frame for movement toward and away from the truck mounted axle with its axis substantially in alignment with the device

to be driven, means to guide the movement of the driven pulley so that its axis is at all times maintained in the same plane, flexible power transmission means drivingly connecting said pulleys, yielding means normally urging the mounted pulley in a direction on said frame to



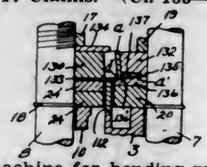
maintain the flexible driving means under tension, said yielding means applying its force in a direction in line with the resultant forces applied on the driven pulley by said flexible driving means, and means for coupling said slidably mounted pulley with the device to be driven.

2,160,216

MACHINE FOR BENDING ANGLE BARS

William E. Kane, Syracuse, N. Y., assignor to Kane & Roach, Inc., Syracuse, N. Y., a corporation of New York

Application November 23, 1936, Serial No. 112,191
17 Claims. (Cl. 153—56)



1. In a machine for bending metal angle bars into circular form, a set of rollers for feeding and bending the bars, said rollers being spaced so that one roller exerts pressure upon the bar at a point intermediate the other rollers, said latter rollers having the peripheral surfaces thereof arranged in parallel relation with each other and inclined relative to the peripheral surface of the former roller, and guide discs associated with each of said rollers to rotate therewith, one disc for the pressure roller and two discs for each of the other rollers, said discs having bearing surfaces arranged substantially normal to said peripheral surfaces respectively, the bearing surfaces of the disc associated with said pressure roller being spaced from the end of said roller to provide a recess for receiving one of the flanges of the angle bar therein and the discs for each of the other rollers being extended beyond the peripheral surface of the corresponding roller and spaced apart axially of the roller a distance substantially equal to the width of the second flange of the angle bar for operatively engaging corresponding opposed surfaces of the bar for holding said bar in fixed predetermined relation with said peripheral surfaces during the bending operation.

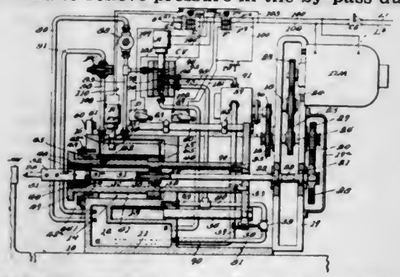
2,160,217

MACHINE TOOL UNIT WITH FEEDING MECHANISM

Edward Joslin Kingsbury, Keene, N. H.

Application January 23, 1936, Serial No. 60,502
12 Claims. (Cl. 60—52)

1. A feeding mechanism for a machine tool including a fixed structure and a movable structure, a pump, a cylinder and a piston, conduits establishing communication between the pump and the ends of the cylinder including a by-pass between said ends effective during forward and reverse traverse movements of the movable structure to permit free passage of pressure fluid between the respective ends of said cylinder, a valve for closing the by-pass, a constantly open discharge conduit from one end of the cylinder and including a feed control valve effective to control feed movements of the movable structure and to relieve pressure in the by-pass during



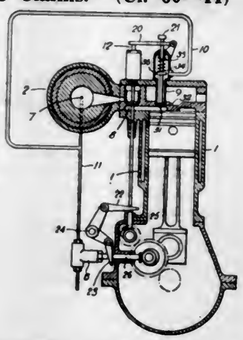
traverse movements of said movable structure, and means responsive to the relative movement of the fixed and movable structures for closing said by-pass valve upon a predetermined forward traverse movement of said movable structure to cause the feed control valve to take over control of the further or feed movement of said movable structure and for opening the by-pass valve at the completion of said feed movement to prepare the by-pass for permitting free pressure fluid passage during reverse traverse movement of said movable structure.

2,160,218

COMBUSTION-PRODUCT ENGINE

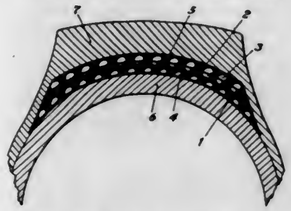
John Rudolph Kingston and William Henry Powell, London, England

Application August 2, 1937, Serial No. 157,040
In Great Britain September 10, 1936
3 Claims. (Cl. 60—44)



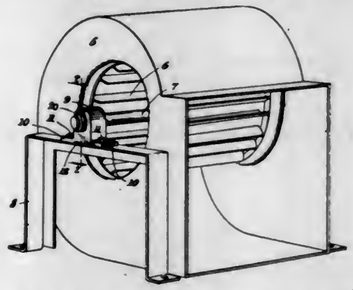
1. In a combustion product engine and in combination an external combustion chamber, a power cylinder in communication therewith, a main fuel injector for the combustion chamber, an auxiliary fuel injector supplying fuel into the excess air contained in the products of combustion which pass from the combustion chamber to the power cylinder, and a fuel pump supplying fuel to the main injector and to the auxiliary injector, the auxiliary injector being operated by an extension of the rod operating the inlet valve to the power cylinder.

2,160,219
PNEUMATIC TIRE
Karl Kramis, Zurich, Switzerland
Application October 8, 1937, Serial No. 168,061
In Switzerland April 29, 1937
13 Claims. (Cl. 152—197)



1. A pneumatic tire assembly comprising an air chamber and, interposed between said air chamber and the tread of the tire, a protecting layer including layers of harder and softer material, the layers of harder material consisting of spaced geometrical bodies which present a convex surface towards the outside of the tire and combinations of such bodies, and the bodies in the layers of harder material being arranged in offset relationship in the adjacent layers and serving to laterally deflect any sharp objects penetrating said tire.

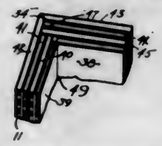
2,160,220
BEARING
Fayette Leister, Detroit, Mich., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application August 24, 1936, Serial No. 97,485
7 Claims. (Cl. 308—184)



1. In a device of the character indicated, a bearing housing including a block of sound deadening material to be secured to a support, said block of sound deadening material having a bearing recess therein, an anti-friction bearing carried by said bearing recess and comprising an outer bearing ring and an inner bearing ring with interposed anti-friction bearing members, a shaft passing through said inner bearing ring, a collar on said shaft, and a washer of resilient material interposed between said collar and said inner ring.

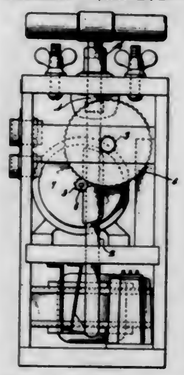
2,160,221
SHIPPING CONTAINER CONSTRUCTION
Orville M. Masters and Henry G. Stager, Syracuse, N. Y.
Application July 12, 1935, Serial No. 31,079
6 Claims. (Cl. 229—14)

3. A protective corner pad for use in a shipping container which comprises a unit of paper board having contiguous corner panels substantially fully joined together along a corner crease on the inner surface of said paper board, a partially severed panel adjoining one of said corner panels and attached thereto along an incision substantially parallel to said crease and extending through only most of the thickness of the paper board from the outer surface thereof to a depth sufficient to enable said partially severed panel to be readily folded along said incision through 180 degrees flat against the inner



surface of its adjacent corner panel and remain in such folded position, and said partially severed panel being of such width as to abut against the inner surface of the opposite corner panel and form a square butt joint when said partially severed panel is folded flat against its corner panel and the two corner panels are folded toward each other about said crease so that their inner surfaces are facing and substantially perpendicular to one another.

2,160,222
BLASTING MACHINE
Malcolm D. McCarty, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application February 1, 1938, Serial No. 188,048
2 Claims. (Cl. 171—76)

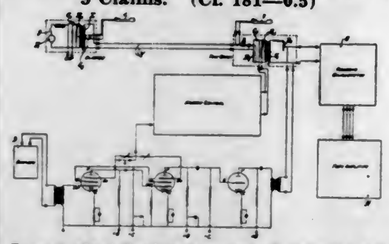


2. In a portable electrical generator type blasting machine for detonating explosives for purposes of seismic surveys having a casing, a manually actuated plunger extending within said casing and an electrical generator positioned within the casing geared to the plunger and adapted to be actuated by the downward movement thereof, key releasable locking means within said casing for engaging the plunger to retain it in its inoperative position at the end of its downward movement, a switch within said casing, means for closing said switch shortly before said plunger reaches the end of its downward movement, said plunger also extending through the casing wall and outwardly therefrom to a point beyond the key releasable locking means and being adapted to function as a handle for carrying the machine when the plunger is secured in its locked, inoperative position.

2,160,223
MANUFACTURE OF ALIPHATIC KETONE-DIARYLAMINE ANTIOXIDANTS
Ludwig Meuser, Naugatuck, and Charles S. Dewey, Cheshire, Conn., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 9, 1937, Serial No. 178,928
14 Claims. (Cl. 260—566)

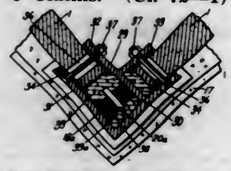
1. A method of producing a fluid aliphatic ketone-diarylamine anti-oxidant which comprises reacting at least one molecular proportion of an aliphatic ketone with one molecular proportion of a diarylamine in the presence of both an acidic condensation catalyst and a non-basic reducing agent capable of furnishing hydrogen for combination in the reaction product during the reaction at a temperature of at least 200° C.

2,160,224
MEANS FOR SEISMIC SURVEY
John P. Minton, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1937, Serial No. 174,969
5 Claims. (Cl. 181—0.5)



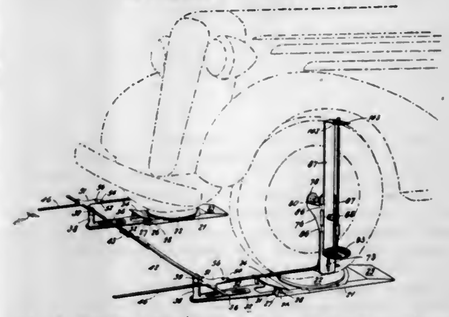
4. In an electrical seismograph system having a vacuum tube amplifier, a seismometer connected to the input of said amplifier, a recorder connected to the output of said amplifier and a timing means associated with said recorder and adapted to cooperate with said recorder to produce a seismogram, an electric blasting circuit for detonating an explosive, said circuit comprising means for generating a transient voltage in said circuit at the instant of detonation of the explosive, and an electric circuit adapted to transmit the impulse of said voltage to a recorder, the improvement that comprises electrical derivative taking means in said signal transmitting circuit adapted to take at least one derivative of said transient voltage to distort said voltage and render the wave front thereof more abrupt in character.

2,160,225
BUILDING CONSTRUCTION
John J. Newman, Vincennes, Ind., assignor of one-half to James H. Hammon, Vincennes, Ind.
Application May 23, 1938, Serial No. 209,456
9 Claims. (Cl. 72—1)



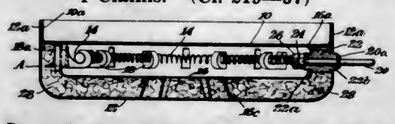
1. A wall structure comprising vertically disposed metal studding spaced laterally from each other, stone slabs disposed between said studding and extending the entire distance therebetween, each of said studding comprising laterally extending flanges which extend in opposite directions and overlap one of the surfaces of said stone slabs, and a removable metal clamping strip vertically disposed and secured to said studding, said strip extending laterally in opposite directions into overlapping relationship to the opposite surface of said stone slabs, said strip being secured to said studding by adjustable members adapted to cause said strip to clamp said slabs to said flanges.

2,160,226
PORTABLE WHEEL ALIGNER
Charles S. Phillips, Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 21, 1937, Serial No. 154,795
20 Claims. (Cl. 33—203)



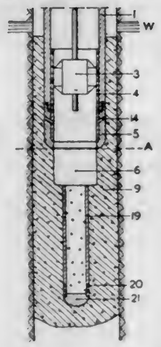
1. A wheel aligner comprising a pair of supports for the dirigible wheels of a vehicle, a cross bar connected to and held by said supports to provide a fixed reference, a pair of aligner heads adapted for mounting to move with said wheels, and indicating bars carried by said heads and supported on said cross bar for relative turning movement with respect thereto whereby to afford an indication of the angular position of the wheels.

2,160,227
ELECTRIC HEATING DEVICE
Stephen A. Platt, Decatur, Ill., assignor to U. S. Manufacturing Corporation, Decatur, Ill., a corporation of Illinois
Application August 6, 1936, Serial No. 94,555
4 Claims. (Cl. 219—37)



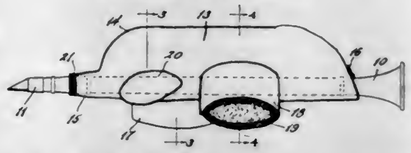
3. In a device of the character described, in combination, a metallic pan-shaped element having an edge wall, a length of heating coil, a plurality of insulating brackets supported in said edge wall and in turn supporting and insulating said length of heating coil within said pan-shaped element, a larger pan-shaped element within which said first-mentioned pan-shaped element is positioned, and a plurality of lugs stamped out from the side wall of said first-mentioned pan-shaped element to form outwardly projecting arms to engage the side wall of the second pan-shaped element for spacing said pan-shaped elements from each other at the sides thereof.

2,160,228
PROCESS AND APPARATUS FOR CEMENTING OIL WELLS
Paul S. Pustmueller, Bakersfield, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Original application April 11, 1938, Serial No. 201,346. Divided and this application December 19, 1938, Serial No. 246,617
10 Claims. (Cl. 166—1)



1. In a process for cementing a well casing, the steps of attaching thereto a shoe supporting a drillable tubing section of substantial length, said shoe having transverse passages communicating with the outside of the casing and a downward passage coaxial with said tubing section, lowering said shoe to the desired level within the borehole, lowering a cement slurry into said casing and tubing, applying downward pressure thereto within the casing, forcing said slurry out of the casing shoe passages and out of the lower end of the tubing, and causing said slurry to fill the annular space between said casing and tubing and the walls of the borehole to a point above the casing shoe.

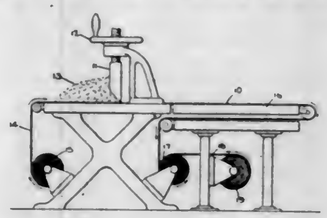
2,160,229
MUFF FOR WIND INSTRUMENTS
Duane F. Rupert, Gloversville, N. Y.
Application September 27, 1937, Serial No. 165,963
6 Claims. (Cl. 206—13)



1. A muff for wind instruments comprising a bellied bag portion having means to secure it to an instrument between the mouthpiece and bell; and hand holes in the opposite sides of the bag affording access to the keys.

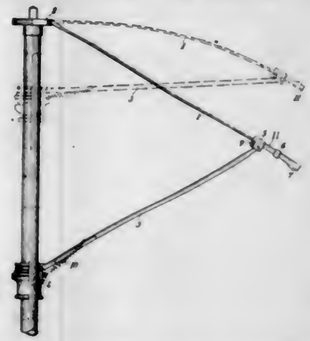
2,160,230
RESINOUS COMPOSITION AND METHOD FOR PREPARING SAME
Moyer M. Safford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 25, 1935, Serial No. 46,686
4 Claims. (Cl. 260—42)

1. A method of making an oil-resistant composition of matter which comprises milling cured alkyd resin on mixing rolls until a strong sheet is formed, milling plastic polymers of chloroprene until broken down, adding the milled alkyd



resin sheet to the milled plastic polymers of chloroprene, subjecting the mass to further milling, and heat curing the composition.

2,160,231
UMBRELLA FRAME
Gerhart Schaefer, Konigsberg, Germany
Application August 4, 1936, Serial No. 94,221
In Great Britain November 8, 1935
7 Claims. (Cl. 135—26)



1. In an umbrella frame, a plurality of ribs each comprising an inner part and an outer part arranged to overlap each other, the overlapping portions of said parts having smooth unbroken contacting surfaces so that the parts may slide one upon the other in all positions of overlapping adjustment, a yoke connected to the inner end of the outer rib part and embracing the overlapping portions of said ribs, and means carried by said yoke and slidable with respect thereto adapted upon operation to force the inner rib part towards the yoke and lock the inner rib part against movement with respect to the yoke.

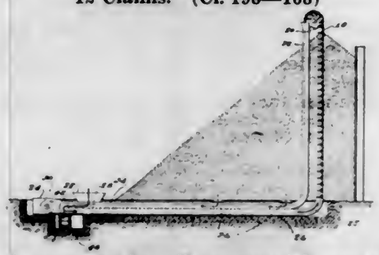
2,160,232
HEAT-TREATED MONOCALCIUM PHOSPHATE
Julian R. Schlaeger, Chicago Heights, Ill., assignor to Victor Chemical Works, a corporation of Illinois
No Drawing. Application August 22, 1938, Serial No. 226,174
19 Claims. (Cl. 23—108)

1. As an article of manufacture, particles of finely divided anhydrous monocalcium phosphate having a thin, autogenous, glassy, substantially complete, relatively insoluble coating, the particles of said monocalcium phosphate being substantially free from pyrophosphate.

2,160,233
BAKING POWDER
Julian R. Schlaeger, Chicago Heights, Ill., assignor to Victor Chemical Works, a corporation of Illinois
No Drawing. Application August 22, 1938, Serial No. 226,173
21 Claims. (Cl. 99—95)

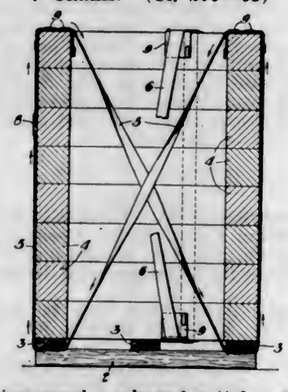
1. A baking powder containing as its essential acid constituent particles of finely divided anhydrous monocalcium phosphate having a thin, autogenous, glassy, substantially complete, relatively insoluble coating, the particles containing less than 10% of pyrophosphate.

2,160,234
CONVEYER
Alfred De Los Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application September 3, 1936, Serial No. 99,181
In Great Britain September 3, 1935
12 Claims. (Cl. 198—168)



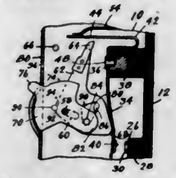
1. A conveyer for piling material, comprising a first conduit forming the carrying run of the conveyer, a second conduit forming the return run of the conveyer, and a conveying element for conveying a flowable solid material through said conduits, said first conduit having a discharge end terminating on substantially the same level as the surface upon which a pile is to be formed, whereby material discharged from said first conduit forms a pile through which said conveying element must pass.

2,160,235
PACKAGED ARTICLE
Frank M. Slusar, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 20, 1936, Serial No. 97,058
7 Claims. (Cl. 206—65)



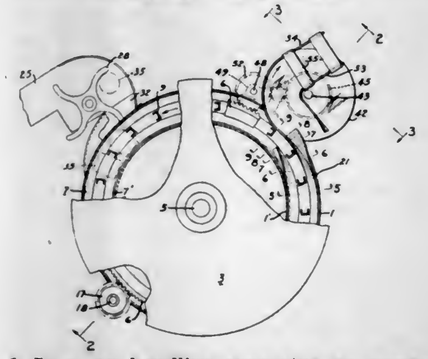
1. An improved packaged-article which comprises a stack of annular elements of substantially the same size, said elements being arranged with their respective centers in co-axial alignment and an endless tying member served about all of said annular elements so as to provide opposed diagonals in crossed relation interiorly of said stack of annular elements to secure them together.

2,160,236
CIRCUIT BREAKER
Elmer H. Taylor, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application March 24, 1937, Serial No. 132,735
24 Claims. (Cl. 200—116)



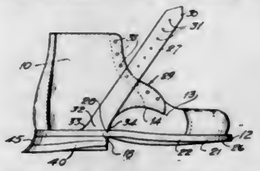
1. An electric switch comprising a movable contact member biased for movement in a circuit-opening direction when the switch is closed, an actuating member for moving said contact member in a closing and an opening direction, two pivotal supports for said actuating member, said actuating member having means exerting pressure on said contact member at the same side of both pivotal supports, operating means for moving said actuating member in said directions, and means for removing one pivotal support from said actuating member.

2,160,237
CAN HANDLING APPARATUS
Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 2, 1938, Serial No. 217,207
12 Claims. (Cl. 198—212)



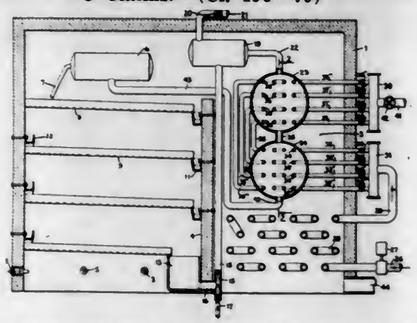
1. In a can handling apparatus, an upwardly extending helical trackway formed by a pair of helically trending separated can supporting rails along which a series of cans may be advanced in rolling procession, a rotatable can propelling reel having a series of upright pusher bars operable between said rails for engaging and propelling the cans therealong, and means for discharging the cans from said trackway comprising means for up-ending the cans as they are advanced along the trackway under the propulsive control of said pusher bars and simultaneously shifting them radially from between said bars to the outer circumference of the trackway.

2,160,238
CORRECTIVE FOOTWEAR
Clarence E. Turner, Washington, D. C., assignor to C. E. Turner, Incorporated, Washington, D. C., a corporation of Maryland
Application September 11, 1937, Serial No. 163,473
2 Claims. (Cl. 36—8.5)



1. A corrective shoe comprising an upper, a sole and heel secured to said upper, wedges inserted in said sole, wedges inserted in said heel, said sole and heel wedges being inclined transversely in the same direction with the thickest portion thereof on the outer edge of the shoe, said sole wedges also tapering longitudinally from a central point whereby to provide a convex under surface on said sole, said heel having the breast portion thereof disposed on an oblique angle relative to the length of the shoe with the forward portion thereof outermost, and a strap extending across the instep portion of said upper and disposed on an oblique angle to the length of the shoe with the forward portion thereof on the inner side of the shoe.

2,160,239
ART OF CONVERTING HYDROCARBONS
Vanderveer Voorhees, Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill., a corporation of Indiana
Application July 10, 1934, Serial No. 734,445
3 Claims. (Cl. 196—70)



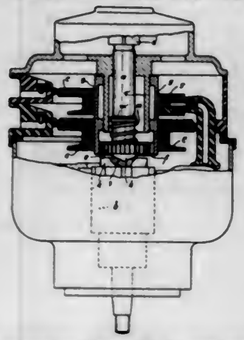
1. An apparatus for the heat treatment of hydrocarbons which comprises a combustion chamber, means for producing hot products of combustion therefor, means within said combustion chamber to enable the heating of molten material partly by direct contact with products of combustion and partly by indirect contact therewith, an enlarged chamber, means for conducting heated molten material to said enlarged chamber, a plurality of conduit elements within said enlarged chamber in heat exchange relation with molten material therein, said conduit elements being connected to form a plurality of parallel paths, means for introducing hydrocarbon into said conduits wherein it is passed in the plurality of parallel paths in heat exchange relation with the molten material and rapidly raised to an elevated temperature and means for passing the thus heated hydrocarbon from said conduits.

2,160,240
HOSE GUARD
Archibald L. Wallace, Northport, and Robert Berkowitz, Woodmere, N. Y., assignors to Metal Hose & Tubing Co., Inc., a corporation of New York
Application February 17, 1936, Serial No. 64,188
5 Claims. (Cl. 138—61)



1. A longitudinally resilient guard strip adapted to be helically wound about a hose or the like to form a guard therefor having that side transversely concaved which is adapted to come against the hose when installed thereon and the outer side of said strip, which is opposite said concaved side, being transversely rounded.

2,160,241
IGNITION APPARATUS
Wilhelm Walther, Stuttgart, and Willi Hirsch, Feilbach, near Stuttgart, Germany, assignors to Robert Bosch Gesellschaft mit beschränkter Haftung
Application June 15, 1936, Serial No. 85,412
In Germany June 27, 1935
4 Claims. (Cl. 200—19)

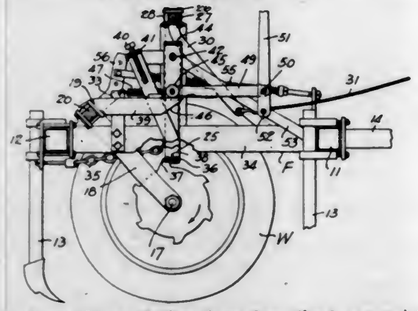


3. In a magneto having a rotatable magneto shaft, a distributor, and means for drivably connecting said magneto shaft and said distributor comprising a gear wheel loosely mounted on said magneto shaft and meshing with an internally toothed ring carried by said distributor, a flange carried by said shaft adjacent said gear wheel, said gear wheel and flange having corresponding and inter-engaging wedge-shaped projections and depressions, and resilient means adapted to yieldingly hold said projections and depressions in engagement and to permit limited relative rotation only between said shaft and gear wheel to damp shocks in the drive.

2,160,242
PHOTOMECHANICAL PRINTING SURFACE
Kevin William Caton Webb, Coonoor, Nilgiris, South India, assignor of one-half to Robert Laing Bruce Gall, Ootacamund, Nilgiris, South India
No Drawing. Application June 26, 1935, Serial No. 28,572. In Great Britain July 5, 1934
7 Claims. (Cl. 41—41.5)

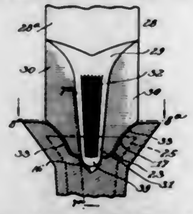
1. Process for the production af a printing surface from a photographic originating element having the image defined in a halide of silver, comprising applying the said element in contact with a smooth metal surface in the presence of a deposition agent with which the halide does not react and in which it is only slightly soluble and in the presence of which the halide is reduced by the metal of the smooth surface, and thereby producing upon the said surface a metallic silver deposit corresponding to the image.

2,160,243
GROUND WORKING MACHINE
Samuel F. Webb, Holtville, Calif.
Application January 3, 1938, Serial No. 182,948
3 Claims. (Cl. 97—73)



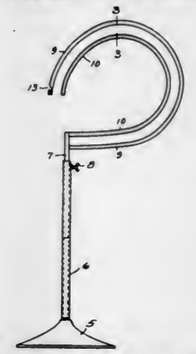
1. A machine of the class described comprising an implement carrier; ground wheels; a rock shaft journaled on said carrier; means pivotally mounting said wheels from said shaft for raising and lowering movements of the carrier relative to the wheels; lifting members pivotally mounted on the carrier; toothed members rotatable with the ground wheels about their axes; a plurality of means on the lifting members successively coactable with the teeth of said toothed members when brought into engagement therewith during rotation of the ground wheels, to move the carrier to its raised position; manually operable means for actuating the lifting members; means co-acting with the carrier and said mounting means to latch the carrier in its raised position; and manually operable means for unlatching the carrier to permit movement thereof to its lowered position.

2,160,244
SCREW DRIVER
Maxwell A. West, Portland, Oreg., assignor to West Screw Corporation, Portland, Oreg., a corporation of Oregon
Original application December 12, 1935, Serial No. 54,100. Divided and this application September 19, 1936, Serial No. 101,623. Renewed September 29, 1938
8 Claims. (Cl. 145—50)



1. A driver for a screw having a head formed with a driving recess comprising a substantially cone-shaped driver holding socket of relatively small apical angle extending adjacent the bottom of the head and having oppositely disposed communicating slots extending outwardly and upwardly from adjacent the bottom of the socket and terminating inwardly of the periphery of the head with the side walls of the slots slightly converging toward the bottoms thereof, said driver having a substantially conical spine for operation in said socket, the outer wall surfaces of said spine having roughened portions formed thereon for cooperation with the walls of said socket to assist in the driving of the screw and retention thereof on the spine whereby the driver may be used as a holder for applying the screw to the work, said driver having wings on opposite sides of the spine for cooperation with the side walls of the slots to insure effective driving engagement between the wings and said walls, said wings being adapted to fit the slots more closely adjacent their bottoms than at their tops.

2,160,245
GARMENT ENVELOPE APPLYING DEVICE
Byron A. Wood, Seattle, Wash., assignor of one-half to Jacob H. Linge, Seattle, Wash.
Application November 14, 1936, Serial No. 110,833
1 Claim. (Cl. 226—18)



A garment envelope applying device, comprising an upright support; an envelope receiving hook shaped loop adjustably connected with said support and supported thereby in a fixed position when the device is in use, said loop comprising two envelope supporting members of different size positioned one within the other in permanently spaced apart relation, the outermost envelope supporting member terminating in a downwardly directed end portion spaced from the innermost envelope supporting member and providing an opening at the front of the loop substantially above the support for receiving a garment envelope, the major portion of said loop being positioned at one side of the axis of said support and the downwardly directed end portion of the larger envelope supporting member of said loop being positioned on the opposite side of the axis of said support and adjacent said axis; and garment hanger engaging means provided on the downwardly directed end portion of said larger envelope supporting member, the weight of the loop helping to offset the weight of a garment when a garment is suspended from said garment hanger engaging means.

2,160,246
WINDSHIELD WIPER
Louis Zaiger, Lynn, Mass.
Application March 1, 1934, Serial No. 713,463
5 Claims. (Cl. 15—250)

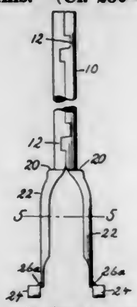
1. A windshield wiper comprising a wiping ele-

ment, a clip secured thereto and by which it is attached to a wiper arm, said clip having two spaced sides adapted to fit between the side flanges of a wiper arm having a U-shaped at-



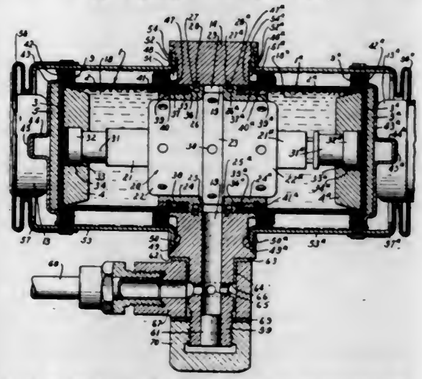
taching portion and also having a laterally-extending projection co-operating with the rear edge of one of said side flanges to limit relative movement between the clip and wiper arm in the direction of the length of the wiping element.

2,160,247
VELOCIPEDE FORK
Bert J. Anderson, Hammond, Ind.
Application December 12, 1935, Serial No. 54,116
3 Claims. (Cl. 280—279)



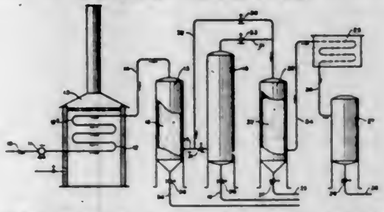
1. A fork for a velocipede comprising, a single stamping having a tubular upper portion and a bifurcated lower portion, means for rotatably securing a shaft to said bifurcated lower portion, said means comprising each end of said lower portion being turned outwardly and portions of said outwardly turned ends being adapted to be crimped about a shaft, and a tongue formed of a part of said tubular upper portion, said tongue comprising means for attaching operating means to the fork.

2,160,248
BELLOWS PISTON
Howard D. Colman, Rockford, Ill.
Application December 30, 1936, Serial No. 118,296
38 Claims. (Cl. 188—152)



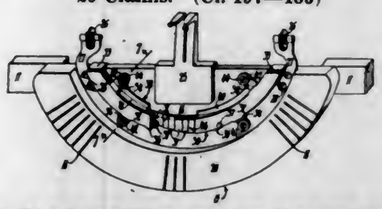
1. A hydraulic brake actuator comprising, in combination, a base having a bore, an adapter sleeve mounted in a peripherally spaced and axially fixed position in said bore and having an external peripheral flange on its inner end slidably interfitting with said bore and defining an outwardly facing shoulder, a rubber cup having a closed outer end and having an open inner end extending into said bore about said sleeve, a flange on the inner end of said cup engaging said sleeve and said shoulder, a removable clamp sleeve secured on said first mentioned sleeve inside of said cup and compressing said flange against said first mentioned sleeve and said shoulder to cause the rubber at the inner end of said cup to engage the confining surfaces with a heavy deflection pressure, an axially extensible and contractible and peripherally rigid reinforcement encircling said cup, means for anchoring one end of said reinforcement non-rotatably to said base, and means for anchoring the other end of said reinforcement non-rotatably for axial movement with the free end of said cup.

2,160,249
PROCESS OF TREATING HYDROCARBON OILS
Harry E. Drennan, Whittenburg, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 25, 1936, Serial No. 92,633
3 Claims. (Cl. 196—52)



3. The method of increasing the anti-knock properties of hydrocarbons boiling within the gasoline range which comprises contacting said hydrocarbons while in the vapor phase and at a temperature within the range 500° F. to 1200° F., with a body of gypsum without substantial condensation of said hydrocarbons and at a flow rate sufficient that only a minimum of cracking occurs, thereby providing products boiling within the gasoline range of improved anti-knock characteristics.

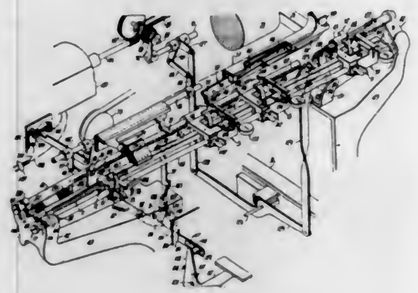
2,160,250
TYPEWRITING MACHINE
William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application January 15, 1936, Serial No. 59,168
29 Claims. (Cl. 197—183)



21. In a typewriting machine, the combination with type-bars and a segment on which they are pivoted, of a sound-deadening stop-ring for accurately intercepting the type-bars just before

printing, including a multiplicity of laminae, and means loosely mounting said laminae face to face on said segment in such manner as to permit cushioning air-film therebetween.

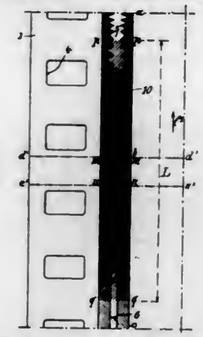
2,160,251
TYPEWRITING MACHINE
William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application March 17, 1937, Serial No. 131,298
21 Claims. (Cl. 197—63)



13. In means for gaging the return of the carriage of a typing-machine to an intermediate line-start position, said machine having a line-end margin-stop and also having a line-start or carriage-return-limiting margin-stop beyond said intermediate line-start position of the carriage, the combination with a universal member along which said line-end margin-stop is settable, said universal member being displaceable by said carriage by means of said line-end margin-stop as the carriage reaches the line-end, and means, including a motor, responsive to said displacement of said universal member to return the carriage by power, of an intermediate carriage-return-limiting margin-stop for said intermediate line-start position, a carriage-return key on said intermediate margin-stop operatively connected to said universal member, whereby operation of said key returns said carriage, and counter-stop means co-operative with said carriage-return-limiting margin-stops, for terminating the carriage-return run, said counter-stop means arranged to co-operate with said first-mentioned carriage-return-limiting margin-stop depending on non-operation of said key as when the carriage-return is effected by means of the line-end margin-stop, or to co-operate with said intermediate carriage-return margin-stop depending on operation of said key.

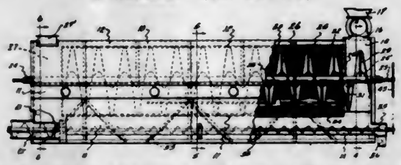
21. In a typewriting machine, the combination of a laterally reciprocatory carriage, a plurality of margin stop units, means supporting said units severally at different carriage arresting stations, each unit being laterally adjustable to its station, a counter-stop common to but normally out of operative alignment with said units, a plurality of manually operable keys, one for each unit, each key being connected with its unit so as to be laterally adjustable therewith, a motor, means universally responsive to operation of any one of said keys to cause said motor to effect movement of said carriage in one direction, and means controlled by each key to determine operative alignment of the corresponding margin stop and said counter-stop for arresting said movement.

2,160,252
METHOD AND APPARATUS FOR THE ELIMINATION OF DEFECTS IN SOUND TRACKS
Raymond Meyer, Paris, France, assignor to Pathé Cinema, Anciens Etablissements Pathé Freres, Paris, France
Application August 29, 1936, Serial No. 98,606
In France September 13, 1935
8 Claims. (Cl. 179—100.3)



1. A device for eliminating in sound tracks of positive films obtained from the negatives of said sound tracks the defects or other anomalies of said negative sound tracks comprising an auxiliary band bearing marks spaced from each other in the longitudinal direction by distances which are proportional to the distances between the defects to be cured, a film guide provided with an exposure aperture, feeding means adapted to feed the positive film opposite said exposure aperture, a source of light, optical means adapted to project a luminous beam from said source upon said positive film through said exposure aperture, controlling means adapted to vary the intensity of said luminous beam according to a sinusoidal law, feeding means adapted to feed said auxiliary band at a speed proportional to that of the positive, and operating means disposed on the path of the marks on said band and adapted to co-operate with said marks and to make said controlling means operative when said marks are brought into contact with said operating means.

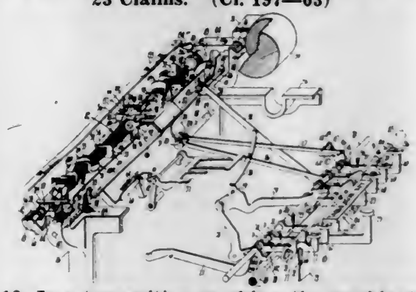
2,160,253
COTTON CONDITIONER
Parrish H. Rylander, San Antonio, Tex.
Application June 22, 1936, Serial No. 86,637
6 Claims. (Cl. 19—90)



6. A cotton cleaner and dryer including, a casing, a rotatable drum of foraminous material, a single continuous spiral baffle having a solid surface secured within the drum and having a central longitudinal passage therethrough, whereby the interior of the drum is divided into compartments which communicate with each other through said passage, an inlet chamber for receiving cotton to be conditioned at one end of the casing and communicating therewith, the baffle having one end extending from the drum into the inlet chamber, whereby as the drum and baffle rotate cotton is forced from the chamber

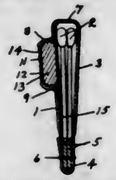
into the drum, means for rotating the drum at a comparatively slow speed whereby the cotton remains in the lower portion of the drum, the partitions formed by the baffle being sufficiently high to prevent the cotton from passing through the central passage into the next compartment, means for imparting a rolling action to the cotton within the lower portion of each compartment, the rotation of the spiral baffle with the drum acting to progressively advance the cotton from one compartment to the next without any forced longitudinal pressure, and means for conditioning the cotton as it passes through the drum.

2,160,254
TYPEWRITING MACHINE
Jesse A. B. Smith, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 26, 1936, Serial No. 87,341
23 Claims. (Cl. 197—63)



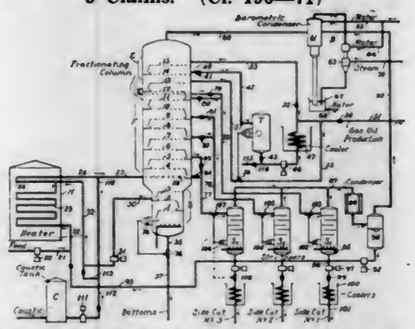
19. In a typewriting machine, the combination with a frame and a carriage movable thereon, of a combined margin-gage and carriage-tabulating mechanism, including a rotatable bar on said carriage, having complemental margin-stops mounted on each face thereof, a counter-stop upon the machine-frame normally in co-active relation with said margin-stops, tabulator-stops mounted between the margin-stops on each face of said bar, said counter-stop being out of the paths of said tabulator-stops, means for releasing the carriage and moving said counter-stop into the tabulator-stop path, and means for detaining the bar in different rotative positions for using selectively different sets of margin and tabulator stops.

2,160,255
MATCH HOLDER
Joseph B. Waller, Baltimore, Md.
Application June 23, 1936, Serial No. 86,832
2 Claims. (Cl. 206—29)



1. In a match book comprising a plurality of matches and a cover therefor having a front flap adapted to cover the matches, said front flap provided with an opening surrounded by a plurality of integral fingers forming a pocket, a sample article enclosed in said pocket, a transparent disk covering the face of said sample article, said article being held in place by said fingers and a shield of sheet material secured to the back of the cover flap over the opening to keep the said sample article in the pocket.

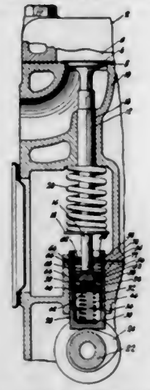
2,160,256
DISTILLATION
Blair G. Aldridge and Edward G. Ragatz, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Original application July 10, 1934, Serial No. 734,529. Divided and this application August 26, 1935, Serial No. 37,980. Renewed December 27, 1937
5 Claims. (Cl. 196—71)



4. In a process for distilling oil, the steps comprising heating the oil, introducing the heated oil into a flash vaporizing zone and separating vapors and unvaporized oil in said flash vaporizing zone, withdrawing vapors and unvaporized oil from said flash vaporizing zone, said withdrawn oil being in substantial equilibrium with said vapors leaving said flash vaporizing zone, circulating a portion of said withdrawn oil which is in substantial equilibrium with said vapors leaving the flash vaporizing zone through a heating zone and back to said flash vaporizing zone, commingling fresh feed with said circulating equilibrium oil passing to said flash zone, said combined circulated unvaporized oil and said fresh feed constituting said first mentioned heated oil, introducing another portion of said unvaporized equilibrium oil from said flash vaporizing zone into a stripping zone in contact with steam, withdrawing steam and vapors from said stripping zone and passing substantially all of said withdrawn stripping steam and vapor through and in intimate contact with substantially all of said heated oil in said flash vaporizing zone, commingling the said stripping steam and vapors from the stripping zone with the resultant flashed vapors released from said heated oil in the flash zone, said combined steam and vapors constituting the first mentioned separated vapors leaving the flash vaporizing zone, and withdrawing a bottoms product from said stripping zone which is substantially heavier than the said unvaporized oil withdrawn from the flash vaporizing zone.

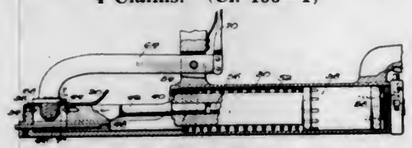
2,160,257
HYDRAULIC VALVE TAPPET
Walter D. Appel, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 13, 1935, Serial No. 54,225
5 Claims. (Cl. 123—90)

1. In hydraulic take-up mechanism, two telescoping members one within the other and enclosing a body of fluid, the inner member having an opening thereon for fluid supply, a T-shaped valve member having its shaft projecting into the opening, resilient means acting against the valve member, a second valve member adjacent



the opening and supported within the outer member against which the projecting shaft is pressed by the resilient means and a thrust transmitting member engaging the second valve member.

2,160,258
METHOD OF SECURING NAILING STRIPS TO METAL BODIES
Henry A. Berliner, Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application June 11, 1934, Serial No. 730,164
4 Claims. (Cl. 153—1)

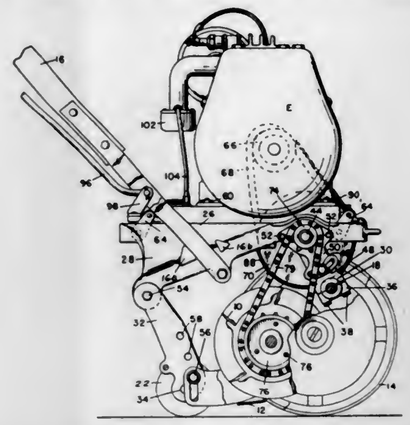


1. That method of securing nailing strips to sheet metal which comprises forcing a nailing strip into a groove in a sheet metal member, placing a point against the side of the groove, and rapidly vibrating the point to form an indentation in the side of the groove pressing into the side of the strip.

4. That method of securing a nailing strip in a groove in a sheet metal body having a substantial extension laterally from the top of the groove which comprises forcing a nailing strip into the groove with its outer surface substantially flush with the surface of said extension, placing a pair of points on the opposite sides of said groove, employing said extension as a gaging means to predetermine the distance of said points below the lower surface of the extension and simultaneously pressing the points into the sides of the groove to form diametrically opposite integral raised portions pressed into the sides of the strip to secure the strip in the groove.

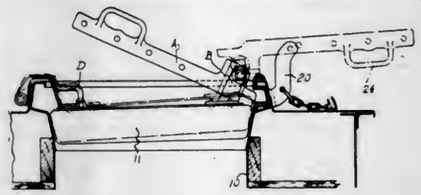
2,160,259
POWER ATTACHMENT FOR LAWN MOWERS
Allyn R. Cooper, Marshalltown, Iowa
Application May 14, 1937, Serial No. 142,646
15 Claims. (Cl. 56—26)

15. In a power attachment for lawn mowers, an engine frame, and means for mounting said engine frame on the frame of a lawn mower whereby the lawn mower may be adjusted to vary the height of the cut without tipping said mounting comprising sets of links pivotally connected to said engine frame and to said lawn mower, one at a point above the axis of the traction wheels and the other at a point an equivalent distance above the axis of the trailer roller,



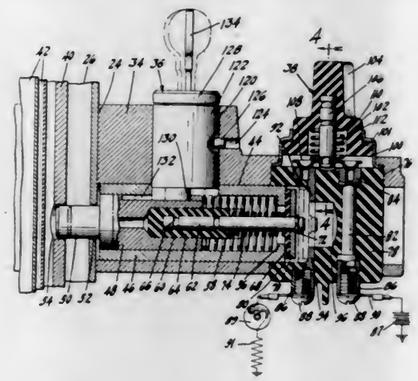
a cutting blade and a cutting wheel in contact therewith at the cutting edge carried by said frame, and means for raising and lowering the cutting edge comprising a variable connection between one of the sets of links and the mower frame adapted to raise and lower the mower frame and the cutting edge with relation to said engine frame without changing the horizontal position of said engine frame.

2,160,260
HATCH COVER FASTENER
William M. Dwyer, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application September 30, 1936, Serial No. 103,344
9 Claims. (Cl. 98—7)



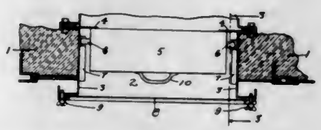
6. In a combined fastener and locking means for hinged hatch covers of refrigerator cars, the combination with a fixed keeper on the car, said keeper having a laterally opening pocket therein adapted to receive a keeper engaging member; of an upwardly facing fulcrum abutment shoulder above said keeper; and a lever pivoted between its ends on said hatch cover and having a relative long arm and a relatively shorter arm at opposite sides of the pivot thereof, said short arm being engageable within the keeper opening to force said cover open or closed, said long arm of the lever at a point inwardly of the free end of the lever being engageable with and rockable on said fulcrum abutment to effect additional opening movement of said cover.

2,160,261
STEERING COLUMN LOCK SWITCH
William C. Edwards, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 24, 1935, Serial No. 23,172
7 Claims. (Cl. 200—55)



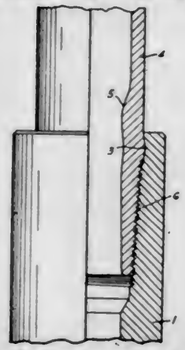
1. In control apparatus for automotive vehicles adapted to be secured to a steering column, a unitary body having a longitudinal and a plurality of transverse passages therein, telescoping longitudinally movable means in the longitudinal passage, a locking bolt on one end thereof and a contact on the opposite end, locking means in one of the transverse passages engaging the movable means to shift the latter, an insulating block in the second transverse passage, a plurality of contacts in said block, a part of which are located adjacent the contact on the end of the movable means and rotatable means mounted on the body adjacent the remainder of the contacts.

2,160,262
EXPLOSION DOOR FOR FURNACES
Eugene Oscar Engels, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York
Application July 6, 1936, Serial No. 88,961
4 Claims. (Cl. 110—173)



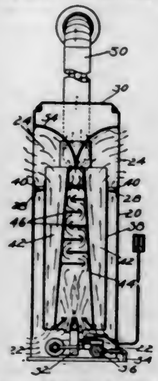
1. In combination with a furnace wall, an explosion-relief assembly comprising a casing defining a passage through said wall, a peripheral flange at the inner end of said casing defining an opening substantially smaller than the cross-sectional area of said passage, a heat-insulated door, having an inner face larger in area than the opening in said flange, but smaller than the cross-sectional area of said passage, means for movably mounting said door in said passage so that it abuts against said flange and yieldingly closes the opening therein, and a gas-tight cover removably secured to the outer end of said casing and closing said passage.

2,160,263
PIPE JOINT AND METHOD OF MAKING SAME
Harold W. Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application March 18, 1937, Serial No. 131,681
6 Claims. (Cl. 29—148.2)



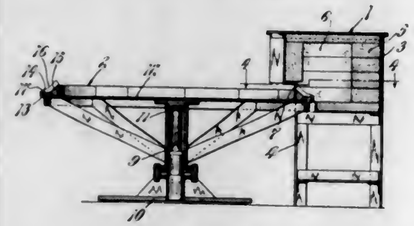
1. The method of connecting a tapered threaded pin with a tapered and threaded box member of a pipe joint consisting of screwing the two members together with a force insufficient to impair the threads, then expanding the pin members outwardly from within along the entire tapered and threaded area and forcing the said threaded members into tight sealing engagement so that said threads may not again be unscrewed.

2,160,264
HEATER
Francis A. Furlong, River Forest, Ill., assignor to Autogas Corporation, Chicago, Ill., a corporation of Delaware
Application December 21, 1935, Serial No. 55,553
3 Claims. (Cl. 126—90)



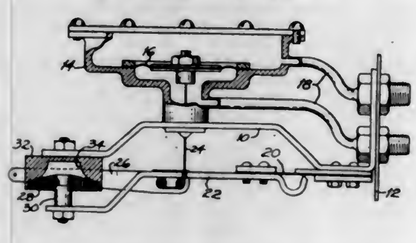
1. A heater comprising a casing having a removable top and formed with an air inlet opening adjacent its bottom and an air outlet opening adjacent its top, a burner mounted in and supported by the lower portion of said casing, a heat exchange unit adapted to be removably inserted through the top of the casing and including a passage for the hot combustion products from said burner having its bottom end open to receive said products and its upper end formed for connection with a flue, elongated supporting members secured to the sides of the casing, and projecting arms on the unit to engage said supporting members to support the unit in the casing.

2,160,265
BIT HEATING APPARATUS
Louis A. Galambos, Jr., Kansas City, Mo., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application November 20, 1936, Serial No. 111,894
3 Claims. (Cl. 214—21)



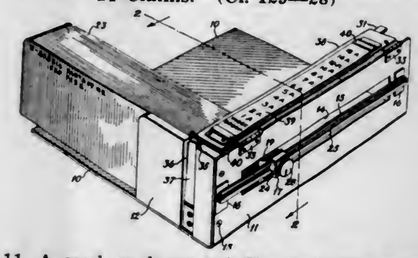
1. In a bit heating apparatus, the combination of a furnace having a heating chamber provided with a horizontal opening curved inwardly in plan for receiving the bits to be heated, and a horizontal rotary carrier having a portion annular in plan disposed at one side in adjacency to said chamber opening and shaped to conform to said curved chamber opening for providing a closure for the chamber opening, said annular carrier portion having at its exterior periphery an annular bit support for supporting a series of the bits to be heated, said carrier upon rotation thereof moving the bits to be heated within said furnace heating chamber, said annular carrier portion serving both as a bit support and a closure for said chamber opening.

2,160,266
MEASURING INSTRUMENT
George W. Grisdale, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application September 11, 1937, Serial No. 163,361
8 Claims. (Cl. 267—1)



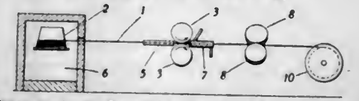
1. A measuring instrument comprising a sensitive element movable in response to changes in a condition to be measured, a spring for yieldingly resisting movement of said element in one direction, said spring being formed of a resilient flat strip so mounted as to be deformed in the direction of its width as the element moves, and a guide for said spring having a surface adapted to engage the edge of the spring at different points in its length as the spring is deformed to give the element an irregular movement proportional to a function of variations in the condition.

2,160,267
CONTAINER FOR PAPERS, CARDS, AND THE LIKE
William B. Griswold, deceased, late of Hartford, Conn., by Anne W. Griswold, executrix, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 24, 1937, Serial No. 150,070
14 Claims. (Cl. 129—28)



11. A card or document file, including a base to support the work pieces on the longer of their edges; a side wall extending along one edge of the base and of a height substantially equal to the width of the work pieces; a stationary, abbreviated front wall extending a short distance along an adjacent edge of the base and arranged at right angles to the side wall, so that the data applied to the left hand face of the foremost work piece is exposed; and a follower projecting from and supported by the side wall, to oppose the abbreviated front wall, the work pieces being clamped between the front wall and follower.

2,160,268
METAL ROLLING MACHINE APPLICABLE FOR THE MANUFACTURE OF ELECTRIC CONDUCTORS
Philip Vassar Hunter, London, and Harry Hill, Belvedere, England, assignors to Callender's Cable and Construction Company Limited, London, England, a British company
Application April 28, 1937, Serial No. 139,518
In Great Britain May 9, 1936
8 Claims. (Cl. 80—10)

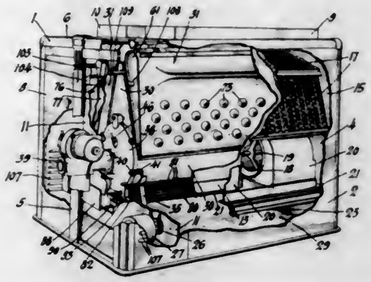


1. Apparatus for the manufacture of prespiralled, shaped, solid conductor from rod of circular or other convenient cross-section, comprising a plurality of rolls which are shaped on the co-operating parts of their surfaces to form an aperture of the cross-sectional shape to be given to the rod, means for driving the said rolls about their respective axes whereby to advance the rod through the aperture and control the speed of its advance, and means for producing relative rotation between each of said rolls and the rod about a longitudinal axis within the rod and at a speed predetermined relative to the speed at which the rolls are driven in rotation about their respective axes.

2,160,269
AIR HEATING AND CONDITIONING UNIT
Earl W. Jorolemon, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 1, 1936, Serial No. 61,906
4 Claims. (Cl. 126—116)

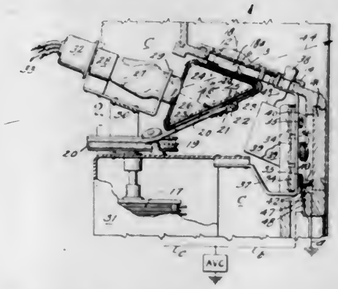
1. A heat transfer unit including a combus-

tion chamber shell, a longitudinally extending flue on each side of said shell and communicating therewith, each of said flues being constituted by two substantially similar halves which



are connected together at their edges and which are bent towards one another for a portion of their length intermediate their upper and lower edges to contact and form parallel flue passageways.

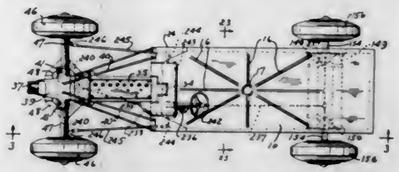
2,160,270
RADIO APPARATUS
Mahlon W. Kenney, Chicago, Ill., assignor to Seeburg Radio Corporation, Chicago, Ill., a corporation of Illinois
Application November 15, 1937, Serial No. 174,672
8 Claims. (Cl. 250—40)



1. In apparatus of the character disclosed, a transparent tuning dial, a reflector back of said dial and a resonance indicator located with respect to said reflector and with respect to said dial so that its reflection can be seen through said dial from one angular position relative to the dial and the resonance indicator itself can be seen through the dial from another angular position relative thereto.

2,160,271
AUTOMOBILE
Victor W. Kliesrath, South Bend, Ind., assignor, by mesne assignments, to International Engineering Corporation, Chicago, Ill., a corporation of Illinois
Original application January 14, 1933, Serial No. 651,821. Divided and this application January 22, 1938, Serial No. 186,290
50 Claims. (Cl. 180—1)

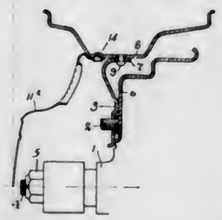
1. A motor vehicle comprising a rear section having road wheels and a base adapted to support a body and a front section having a transverse dash and a support carried by and projecting forwardly from said dash, said dash being secured to the forward end of said base to assemble the complete vehicle and said support and said dash having alined respectively front and rear bearings in the longitudinal center line of the vehicle, a power unit mounted at its front and rear ends in said bearings and angularly movable therein without restriction from said support or from said rear section about the axis of said bearings and arranged with its crankshaft axis substantially coincident with the axis of said bearings, upper and lower sets of right and left axle sections yieldingly connected to said power unit on opposite sides thereof and directly taking the reaction torque therefrom and forming the sole means resisting angular movement of said unit in said bearings, supports swiveled at the outer ends of the right and left sets of axle sections respectively and having front road wheels rotatably mounted thereon, and live driving axles driven by said power unit and arranged between the upper and lower axle sections and arranged to drive said wheels.



30. A unit comprising a support having a socket, an axle section having its end generally H shaped in both vertical transverse and vertical longitudinal section and having said end arranged in said socket, such formation of said end forming upper and lower seats in said end, rubber blocks arranged in said seats and compressed in said socket, and a third rubber block arranged in the socket across the end of the axle section.

40. A vehicle having an engine, a dash having means supporting the rear end of said engine, and a structure rigidly secured to and projecting forwardly from said dash supporting the front end of the engine and a radiator also mounted on said engine supporting structure forwardly of said engine.

2,160,272
VEHICLE WHEEL
Harry W. Kranz, Lakewood, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application December 21, 1932, Serial No. 648,182
1 Claim. (Cl. 301—37)

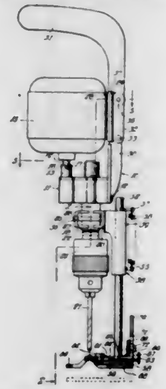


The combination of a wheel carrying a drop center rim provided with a base member for attachment to the wheel body and inclined sides carrying the bead seating portions, there being a radially extending abutment on said base member, and a cover plate, said cover plate comprising a portion lying adjacent to and abutting an inclined side of the rim and a plurality of securing elements mounted on the cover axially inwardly of the body of the cover plate and radially inwardly of the rim engaging portion, said securing elements being resiliently engageable with the inboard side of the abutment on the base of the rim.

2,160,273
LUBRICANT
Clarence M. Loane and Bernard H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application September 10, 1937, Serial No. 163,245
34 Claims. (Cl. 87—9)

1. A new composition of matter comprising a lubricant and a small amount of an alkyl titanate.

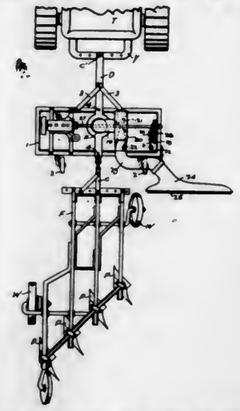
2,160,274
PORTABLE POWER DRIVEN TOOL
Nicolás A. Lopez, Chicago, Ill.
Application October 8, 1936, Serial No. 104,647
5 Claims. (Cl. 77—6)



1. A tool supporting frame of the character described comprising a back frame member, means on said back frame member adapted to removably mount a motor, a power translating mechanism secured to said back frame member having a shaft provided with means to couple it with a motor shaft, a handle member movably connected to said back frame member, said handle member having means adapted in one position of the handle member to cooperate with the back frame member in securing a motor thereto, and means for locking said handle member in said last named position, said power translating mechanism having a tool receiving chuck thereon, and a tool guide frame fixed to said power translating mechanism and having guide means for the tool spaced from said chuck.

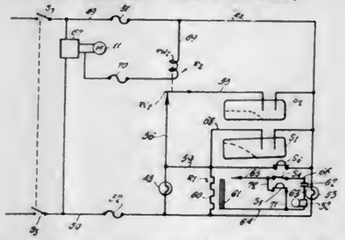
2,160,275
STRAW SPREADER
James Magee and Lewis G. Jain, Genesee, Idaho
Application October 8, 1937, Serial No. 167,964
6 Claims. (Cl. 275—2)

1. The combination with a pulling-tractor, a spaced gang-plow, and an intermediate trash-spreader, of coupling means between the tractor and the spreader, coupling means between the spreader and the gang-plow, means mounted on the spreader for gathering field-trash in front of the advancing plows, means for distributing the gathered field-trash from the spreader to a



plowed field, and operating mechanism for these two latter means.

2,160,276
LIQUID LEVEL INDICATOR
Thomas C. McKee, Chicago, Ill.
Application April 29, 1937, Serial No. 139,707
5 Claims. (Cl. 177—311)

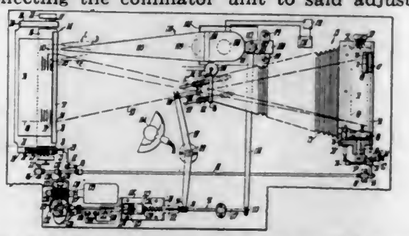


4. In a system having a plurality of normal liquid levels dependent upon the operating condition of an associated mechanism, the combination of, a plurality of means adapted to be actuated in response to a change in the level of a body of liquid from any one of a corresponding plurality of selected levels, and means for selectively rendering individual ones of said first-named means operative and inoperative in response to the operating condition of the associated mechanism.

2,160,277
PHOTOGRAPHIC LINE-JUSTIFYING APPARATUS
Samuel A. Neidich, Ventnor, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 7, 1935, Serial No. 53,309
5 Claims. (Cl. 95—4.5)

1. In an apparatus for photographing unequal-length lines of a copy sheet, line by line, in justified relation on a light sensitive medium; an adjuster movable, for each line, to justify the photographic line images on said medium, a collimator and a light source therein for projecting an incident spot of light on the copy side of said sheet, said collimator having a light spotting opening facing the copy side of said sheet, a second collimator and a light sensitive element therein, said second collimator having an opening facing the copy side of said sheet to receive

the reflection of said light spot for reaction upon said light sensitive element, said collimators being connected and mounted to move jointly as a unit to move said light spot relatively to a copy line to find a line end sensing differential reaction upon said light sensitive element, means connecting the collimator unit to said adjuster



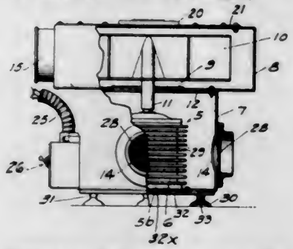
so that the latter is moved in line justifying correspondence with the line end finding movements of said collimator unit, means for moving the collimator unit and adjuster, and means responsive to said differential reaction upon the light sensitive element to stay the movement of said adjuster.

2,160,278

PORTABLE EXHAUSTER

William H. C. Ness and Marion B. Sawyer, Los Angeles, Calif.

Application February 8, 1937, Serial No. 124,602
2 Claims. (Cl. 230—117)



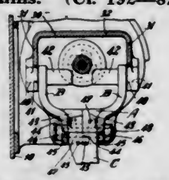
1. In a portable exhauster, a housing having an aluminum floor, a totally enclosed motor mounted upon said floor, said motor having a machined lower end bell which engages said floor in an abutting relation, said housing having an extensive opening in its floor over which said motor is mounted with its lower end bell exposed and directed to an air space below said floor.

2,160,279

HAND BRAKE

Roland J. Olander, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application January 25, 1937, Serial No. 122,149
9 Claims. (Cl. 192—82)



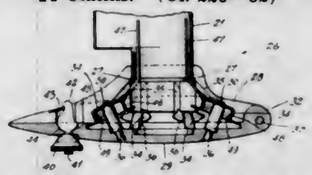
6. In a shifting means for a reciprocating rotary clutch element, the combination with a support having laterally spaced bearing seats; of a two-part shifting head composed of complementary separable sections; trunnion means on said head rotatably supported in said bearing seats; means on said head operatively connecting the same to the clutch element to effect reciprocation of the latter; an actuating handle; and a bolt pivotally connecting the handle to said complementary sections of the head and rigidly clamping said sections together.

2,160,280

METHOD AND MEANS FOR PURGING THERMOSTATS

Lawrence M. Persons, St. Louis, Mo., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware

Application December 19, 1936, Serial No. 116,700
14 Claims. (Cl. 226—82)



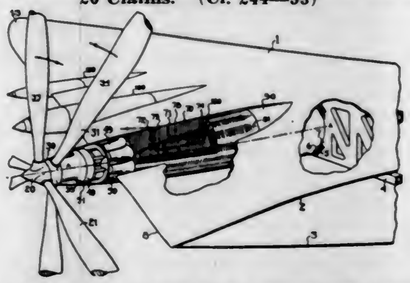
1. In a method of purging a container consisting of a pair of interfitted cup-like members having a space therebetween and an outlet adjacent their bottom portions, the steps of rotating the container about an axis, maintaining the axis of the cup at an acute angle to a radius to the axis of rotation with the open end of the cup facing away from said axis of rotation, and the outlet nearest of all parts of the container to said axis of rotation, and thereafter closing said container.

2,160,281

AIRCRAFT POWER PLANT

Nathan C. Price, Seattle, Wash.

Application December 9, 1938, Serial No. 244,815
20 Claims. (Cl. 244—53)



1. An aircraft power plant comprising a propeller, a heat engine for driving said propeller, a heat disposal core having a first end and a second end opposite to said first end thermally associated with said engine, an attachment for joining said first end to said aircraft, and means for supporting said propeller by said second end.

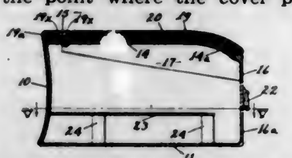
2,160,282

ARM REST CONTAINER

Hugo F. Rehg, Wichita, Kans.

Application March 8, 1937, Serial No. 129,590
1 Claim. (Cl. 155—112)

In an arm rest container, a box like element, said box like element having a top and cover portion, said cover portion being hinged to said top portion at a point spaced away from the end of said box, a cushion covering for said top and cover portions, said cushion portion being made in two pieces that have bevel edges at their joint at the point where the cover portion is



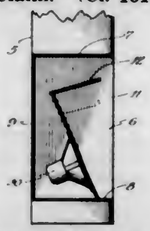
hinged to the top portion so that the cover portion may be swung open without resistance from the cushion pieces, said cushion pieces being covered with upholstering material in such a manner as to conceal the hinges and bevelled joint between the two cushion pieces.

2,160,283

RADIO CABINET

Henry T. Roberts, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois

Application July 28, 1936, Serial No. 93,051
1 Claim. (Cl. 181—31)



A radio cabinet, including a top wall, a pair of side walls, a bottom wall and a back wall defining a sound chamber open at its front, a sounding board in said sound chamber spanning the side walls thereof and having its lower edge against the bottom wall of the sound chamber, said sounding board having an opening therein, a speaker mounted in said opening with the diaphragm thereof substantially spanning the opening, said sounding board being inclined rearwardly from its lower edge and having its upper edge terminating in spaced relation to said top and back walls of said sound chamber, a forward extension from the upper edge of said sounding board directed toward the open front of said sound chamber to create in conjunction with said sounding board a divider in said sound chamber and a compartment around the back of said divider for the frontal emission of sound waves from the back of said speaker, the path of said waves being first between said back wall and said sounding board and then between said forward extension and said top wall to the front of the sound chamber, the forward edge of said forward extension being closer to said top wall than the rear edge thereof.

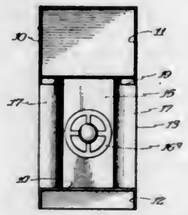
2,160,284

RADIO CABINET

Henry T. Roberts, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois

Application July 28, 1936, Serial No. 93,052
1 Claim. (Cl. 181—31)

In a radio cabinet, top, bottom and side walls defining a horizontal, tubular main sound chamber, a vertical sounding board in said main sound chamber intermediate the front and rear ends thereof, said sounding board being substantially parallel to said front and rear ends and having an opening, a speaker substantially spanning said opening, the side edges of said sounding board being spaced from said side walls and the top and bottom edges of said sounding board terminating at said top and bottom walls of said main



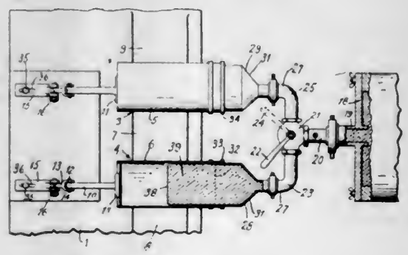
sound chamber, and supplemental walls extending from the side edges of said sounding board to the edges of said side walls to provide column-like auxiliary sound chambers filling the spaces between the edges of said sounding board and said side walls and extending from said bottom wall to said top wall of said main sound chamber, said column-like auxiliary sound chambers having openings adjacent their upper ends for emission of sound therefrom.

2,160,285

MATERIAL PACKAGING METHOD AND MEANS

Almond C. Routh, Sandusky, Ohio

Application April 28, 1937, Serial No. 139,380
8 Claims. (Cl. 226—125)



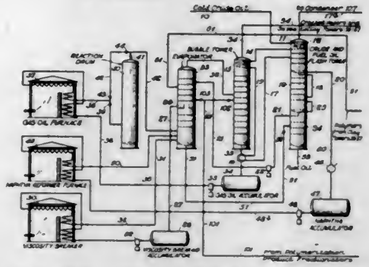
1. The method of placing in each of a succession of containers a like measured quantity of semi-fluid form-sustaining material supplied to a discharge nozzle from a material source at a point spaced from the discharge end of the nozzle, which includes filling the nozzle to the end thereof, positioning one of the containers over the nozzle, causing the material to be supplied to the nozzle and to be extruded out of the nozzle in the form of a bar and to be deposited in the container substantially without change of its extruded form thereby progressively filling the container from the open end thereof to the base, stopping the flow of material when a predetermined quantity has been extruded, moving the container longitudinally and then laterally with respect to the nozzle end to shear off the bar by the walls of the container and of the nozzle, leaving the nozzle filled substantially to the end, and so on repeatedly with a succession of containers.

2,160,286

CONVERSION OF HYDROCARBON OILS INTO GASOLINE

Robert F. Ruthruff, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application December 17, 1934, Serial No. 757,902
Renewed August 11, 1938
13 Claims. (Cl. 196—10)



1. In a combined oil cracking and gas polymerization process, the steps comprising heating a flowing stream of hydrocarbon oil during its flow through an elongated passageway to a cracking temperature while maintained under a super-atmospheric pressure, maintaining the oil stream at said temperature and under said pressure until the desired conversion into motor fuel products and normally gaseous hydrocarbons is effected, thereafter passing the stream of reaction products to a separating zone wherein heavy hydrocarbon products are separated in liquid form and lighter hydrocarbon products are separated in vapor form, collecting said heavy hydrocarbon products and recycling a part of them for further cracking, separately withdrawing vapors from said separating zone and fractionating them in a fractionating zone to separate therefrom as separate fractions liquid motor fuel products and an admixture of normally gasecus hydrocarbons containing olefins, catalytically polymerizing said admixture of normally gaseous hydrocarbons containing olefins, separating motor fuel and higher boiling polymer products from lighter products of the effluent from the polymerization step and returning said motor fuel and higher boiling polymer products to said separating zone, and recovering from said fractionating zone said motor fuel polymer in admixture with motor fuel products formed in the oil cracking step.

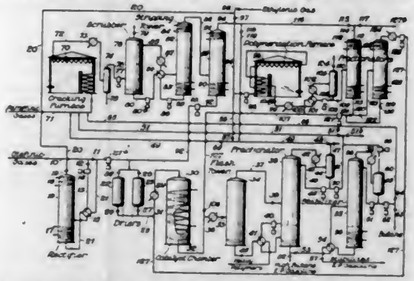
2,160,287

CONVERSION OF GASEOUS HYDROCARBONS TO LIQUID

Robert F. Ruthruff, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application December 17, 1934, Serial No. 757,905
Renewed August 10, 1938
16 Claims. (Cl. 196—10)

15. In the process of producing liquid hydrocarbons boiling within the gasoline range from normally gaseous hydrocarbons containing olefins and butane; the steps comprising separating normally gaseous hydrocarbons containing olefins and butane into a fraction containing ethylene as the predominating olefinic constituent and a second fraction containing higher boiling normally gaseous olefins and butane; subjecting said fraction containing ethylene as the predominating olefinic constituent and unconverted gases, hereinafter defined, to thermal polymerization at elevated temperatures and pressures sufficient to convert a portion of the gases to liquid hydrocarbon products boiling within the gasoline range; condensing products from the thermal polymerization step; subjecting the fraction containing higher boiling normally gaseous olefins and butane to catalytic polymerization to convert a portion of the olefins therein to liquid hydrocarbon products boiling within the gasoline range;



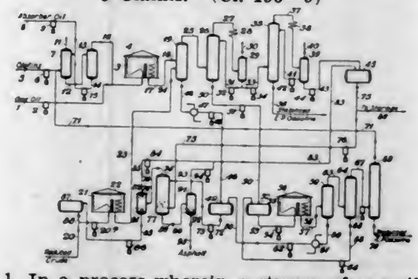
passing condensed products from the thermal polymerization step together with the products from the catalytic polymerization step to a common fractionating system, and recovering therefrom a fraction of unconverted gases and liquid hydrocarbon products boiling within the gasoline range containing a substantial amount of butane; and recycling unconverted gases to said thermal polymerization step.

2,160,288

CONVERSION OF HYDROCARBONS

Robert F. Ruthruff, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application August 8, 1935, Serial No. 35,335
9 Claims. (Cl. 196—9)



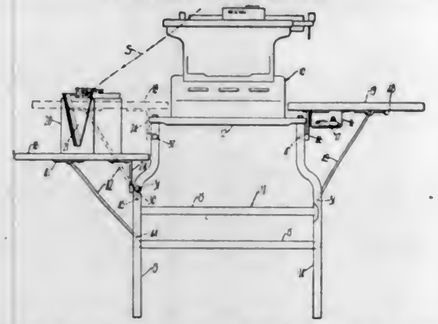
1. In a process wherein a stream of gas oil is passed into a first cracking zone and therein heated to elevated temperatures to effect conversion thereof to form tar in an evaporating zone, clean cracked gas oil in a fractionating zone and stabilized gasoline in a stabilizing zone, the improvement which comprises mixing olefinic gas with said stream of gas oil for passage through said first cracking zone, withdrawing unconverted gases from said stabilizing zone and separating therefrom a saturated predominantly propane fraction, passing tar from the evaporating zone to a deasphalting zone, introducing at least a part of said saturated predominantly propane fraction into said deasphalting zone to therein deasphalt the said tar, cracking in a second cracking zone and recycling said deasphalted tar to said evaporating zone, conducting said clean cracked gas oil to a third cracking zone operating at a higher temperature than said first cracking zone wherein gasoline, tar and highly unsaturated olefinic gas is produced, recycling said highly unsaturated olefinic gas to said first cracking zone and conducting tar derived from said clean cracked gas oil to said deasphalting zone wherein it is combined with tar derived from said conversion first mentioned.

2,160,289

BUSINESS MACHINE STAND

Walter T. Sagner, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application October 8, 1937, Serial No. 168,046
2 Claims. (Cl. 45—90)



1. In a business machine stand; a pair of front and rear legs at one side, each leg having a lower portion offset outwardly, laterally of the stand, from an upper portion by elbows, a side table leaf having depending brackets presenting, below the underside of said leaf, hinge points detachably receivable by companion points on the upper portions of said legs below the stand top, said points and brackets being adapted to dispose said leaf at a level and so that its inner side margin overtops the stand vertically above the upper portions of said legs, said offset lower portions of the legs presenting points, offset outwardly from the upper leg portion points, to receive said bracket hinge points to place said table leaf alternatively at a lower level whereat said inner leaf margin is nested substantially within the corner formed by the upper leg portions and the elbow from the upper leg portions, and a strut device adjustable to support said table leaf at either level.

2,160,290

WEAR RESISTING ALLOY

Robert W. Schlumpf, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware

No Drawing. Application January 31, 1938, Serial No. 187,895
3 Claims. (Cl. 75—126)

1. A hard abrasion resisting alloy comprising a mixture of materials fused together in approximately the following proportions: chromium, 5.0% to 6.0%; boron, 0.5% to 2.0%; carbon, 1.0% to 1.5%; and tungsten, 14.0% to 18.0%; the balance iron, said alloy being capable of being cast only, and incapable of being forged or worked.

2,160,291

WELL PUMPING APPARATUS

Clarence N. Scott, Houston, Tex.

Application June 1, 1937, Serial No. 145,693
6 Claims. (Cl. 103—52)

1. A plunger lift device including an eduction tube, a primary stage therein, a freely moving plunger in said primary stage, a standing valve at the upper end of said primary stage, an interstage liquid reservoir in or around the upper portion of said primary stage below said standing valve, an upper secondary stage in said eduction tube, a second freely moving plunger above said



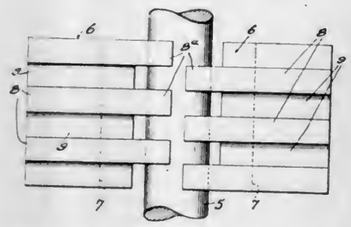
standing valve in said secondary stage, there being openings into said tube below said second plunger, a sleeve valve closing said openings, means to conduct gas or air under pressure from the surface to said valve, said valve opening in response to the head of liquid in said eduction tube above said standing valve.

2,160,292

PACKING MEANS

Meri G. Scott, Tulsa, Okla.

Application April 3, 1937, Serial No. 134,882
Renewed June 29, 1938
5 Claims. (Cl. 288—3)

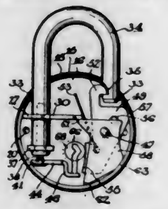


1. A wear compensating packing means comprising a plurality of blocks adapted to embrace the element to be packed, each block being provided at one end portion with a cavity to receive said element, opposite sides of each block being provided with series of spaced straight elongated horizontal tongues and grooves, the tongues of one block being staggered relatively to the tongues of the opposite block and the tongues of each block extending substantially the full length thereof and projecting beyond its cavity end into the grooves of the opposite block, the thickness of each block between its cavity end and its opposite end being materially greater than the transverse thickness of any of said tongues to provide for adjustment of the packing means to take up wear

2,160,293
LUBRICANT
Bernard H. Shoemaker and Clarence M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 5, 1936, Serial No. 114,434
10 Claims. (Cl. 87—9)

1. A motor oil non-corrosive to hard metal alloy bearings having the corrosive susceptibility of alloys of the class consisting of cadmium-silver, cadmium-nickel, copper-lead alloys consisting of a mineral lubricating oil normally corrosive to said hard metal alloys and a small amount of a polymembered heterocyclic compound having the general formula A—R in which A represents a heterocyclic radical selected from the group consisting of azoles, containing only nitrogen and carbon in the ring, azines, containing only nitrogen and carbon in the ring, pyrroles and thiophenes and R is a substituent selected from the group consisting of hydrogen, an alkyl radical, an aryl radical, an aralkyl radical, an alkoxy radical, a mercapto radical, an amino radical, a substituted amino radical and a halogen, said polymembered heterocyclic compound being added in small but sufficient quantities to inhibit the corrosion of said hard metal alloy bearings.

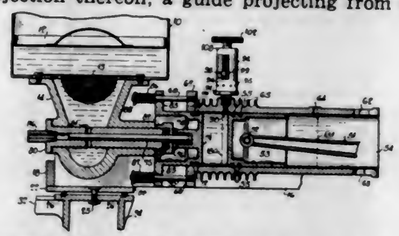
2,160,294
PADLOCK
Harry E. Soref, Milwaukee, Wis., assignor to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 17, 1937, Serial No. 175,003
5 Claims. (Cl. 70—38)



1. In a lock, the combination of a lock case, a pin secured in said case, and a plurality of apertured plates mounted on said pin, one of said plates being pivoted on said pin and forming a locking lever adapted to be operated by a turnable key and to engage a lockable member, and another of said plates forming a ward member, said ward member having a key-stopping shoulder to limit the turning of the key in unlocking direction, and said plates being interchangeable on said pin to provide for key changes.

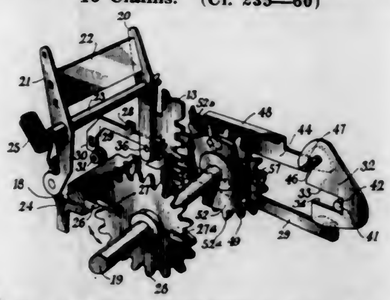
2,160,295
LUBRICATION APPARATUS
Ralph T. Stewart, Winston-Salem, N. C., assignor to Radiator Specialty Company, Charlotte, N. C., a corporation of North Carolina
Application June 16, 1937, Serial No. 148,611
9 Claims. (Cl. 221—47.1)

1. Lubrication apparatus comprising a lubricant pump, a delivery hose connected to the output side of said pump, a cylinder open at both ends and unobstructed throughout its length, a piston disposed at one end and connected to said pump, a second piston mounted in the other end of said cylinder and having connections with a prime mover for driving the same to create air pressure between the two pistons for reciprocating said pump, the first piston projecting beyond the open end of the cylinder and having a lateral projection thereon, a guide projecting from the



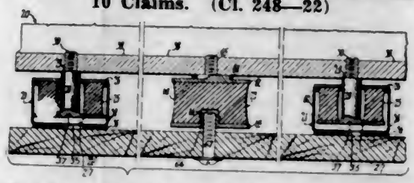
exterior of the cylinder, and slidably penetrating said projection, and resilient means on the guide for limiting the outward movement of the first piston.

2,160,296
ALGEBRAIC TOTALIZER
Oscar J. Sundstrand, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application March 31, 1934, Serial No. 718,328
16 Claims. (Cl. 235—60)



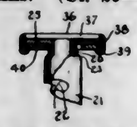
16. A computing mechanism including a totalizer having a plurality of pinions, means operating with the pinions for arresting them during total taking operations, and means, effective when the totalizer is overdrafted, for causing relative movement between the pinion of lowest order and its arresting means during total taking operations.

2,160,297
TYPEWRITING MACHINE
Russell G. Thompson, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application November 26, 1935, Serial No. 51,557
10 Claims. (Cl. 248—22)



10. Means for holding a typewriter in floating suspension on a platform for isolation of sound vibrations within the typewriter, said holding means comprising a plurality of units for collectively suspending the load of the typewriter on the platform, each of said units including a resilient member tensioned by the load of the typewriter, and a resilient element consisting of a block of rubber interposed between the typewriter and platform intermediate said units and stressed in tension, whereby said element may tend to further tension the resilient elements of said units to coactively isolate sound vibrations of the typewriter from transmission to the platform.

2,160,298
METHOD OF MAKING FASTENERS
Herman Weber, Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich., a corporation of Michigan
Application February 21, 1938, Serial No. 191,739
8 Claims. (Cl. 29—148)



1. The method of making a fastener member of the class described which comprises cutting a blank to substantially rectangular shape, drawing said blank and also rolling the same to form integrally connected cylinders of different diameters and a pair of spirally extending slots leading from the larger open end of the joined cylinders, slitting the smaller end axially at a number of places and bending and forming the smaller end so that the parts between the slits extend substantially radially and securing an actuating member to the radially extending portions.

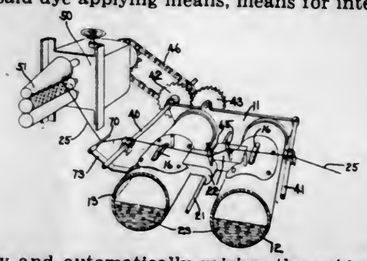
2,160,299
GAME
John L. Zinngrabe, Chicago, Ill.
Application December 4, 1937, Serial No. 178,032
5 Claims. (Cl. 273—85)



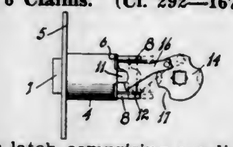
1. A game board comprising an open top frame, a sheet of elastic material extending over the top of the frame to form a playing surface adapted to support a freely movable element thereon, a plurality of vertically shiftable, longitudinally and laterally spaced balls within the frame forming men arranged in teams beneath, and spaced from, the playing surface, means at one end of the board for individually and selectively shifting the balls forming men of one team to cause said balls to strike the playing surface in a direction to impel said movable element across said surface generally in a direction toward the other end of the board and means at the other end of the board for individually and selectively shifting the balls forming men of another team to cause said balls to strike and distort the playing surface and impel said movable element across said surface toward said first end of the board, said balls being operatively connected to said shifting means for actuation thereby.

2,160,300
DYEING MACHINE
William A. Baldwin, Utica, N. Y., assignor to Ainsworth Dyeing Machine Company, Utica, N. Y., a corporation of New York
Application May 27, 1936, Serial No. 82,059
11 Claims. (Cl. 68—203)

1. In a construction of the class described, a first reservoir containing dye, dye applying means associated therewith, a second reservoir containing dye, additional dye applying means associated therewith, means for mounting the two reservoirs in spaced relationship, means for drawing the material which is to be dyed successively across the said dye applying means, means for intermittently and automatically raising the said material from one of said dye applying means, additional means for intermittently and automatically raising the said material from said other of said dye applying means and means for varying the path of travel of the material being dyed intermediately the two reservoirs.



2,160,301
DOOR LOCK AND LATCH
Edwall J. Baumé, Long Beach, Calif.
Application September 25, 1936, Serial No. 102,565
6 Claims. (Cl. 292—167)



1. A door latch comprising a cylindrical housing adapted to be mounted in a door, a bolt slidably mounted in the housing, a wall closing the inner end of the housing, a bolt finger extending through said wall, said bolt finger including a cross-head on the inner end thereof, means attaching the bolt finger to the bolt, a knob spindle, a lever plate non-rotatably mounted on the spindle, a link pivotally secured at one end to the lever plate, the other end of said link loosely engaging the outer ends of the cross-head whereby tilting of said link on rotation of the lever plate will cam the bolt finger inwardly to retract the bolt.

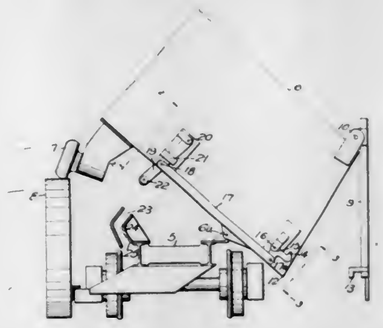
2,160,302
COMPRESSED FEED MACHINE
John W. Billows, Portland, Oreg., assignor to A. Popick Manufacturing Company, Portland, Oreg., a corporation of Oregon
Application April 25, 1938, Serial No. 204,144
19 Claims. (Cl. 107—8)



1. In a machine of the character described, a

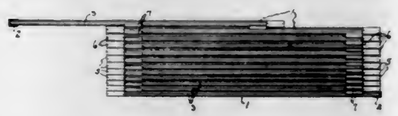
horizontally positioned stationary annular die provided with a plurality of spaced, radially disposed openings, a shaft axially disposed with relation to said die, means secured to said shaft and operatively confined within the space surrounded by the die, said means adapted to force the material delivered into said space toward said die to be extruded through the openings in said die by exerting a wiping action thereupon, and independent means for adjusting the position of the front and rear portions of the first-mentioned means relative to the inner face of the die.

2,160,303
LATCH
Arthur V. Card, Denver, Colo., assignor to The C. S. Card Iron Works Company, Denver, Colo., a corporation of Colorado
Application May 31, 1938, Serial No. 210,885
11 Claims. (Cl. 105—308)



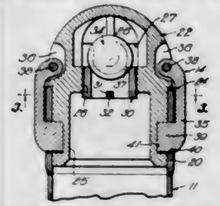
11. In apparatus of the character described, inclusive of movable latching mechanism for the gate of a movable dump body or the like, a relatively stationary undercut cam element positioned and adapted to engage and lock said latching mechanism when the dump body is moved to its normal position.

2,160,304
EXTENSION RULE
Frederick O. Carlson, New York, N. Y., assignor to Master Rule Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application November 6, 1937, Serial No. 173,135
4 Claims. (Cl. 33—161)



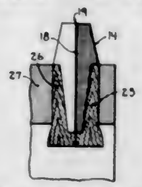
1. A rule of the type described comprising a plurality of sections each comprising a rule length having grooves along the sides thereof and joint members for interconnecting associated pairs of sections, each joint member having portions folded into the grooves of one of the sections of a pair and planar portions having projections resiliently and releasably gripping the other section of the pair.

2,160,305
VALVE FOR CORE DRILLS
Alfred C. Catland, Alhambra, and John H. Howard, Huntington Park, Calif.; said Catland assignor to Globe Oil Tools Company, Los Nietos, Calif., a corporation of California
Original application January 14, 1936, Serial No. 59,076, now Patent No. 2,089,482, dated August 10, 1937. Divided and this application July 6, 1936, Serial No. 88,991
4 Claims. (Cl. 251—167)



1. A valve for a core drill having an inner barrel including a valve body having a fluid opening, means for removably attaching the body to the barrel, a valve seat threaded in the opening, a valve for cooperating with the seat, there being a notch in one extremity of the seat, and a member attached to the body and cooperating with the notch to prevent unthreading of the seat, the member extending across the opening to form a strainer therein.

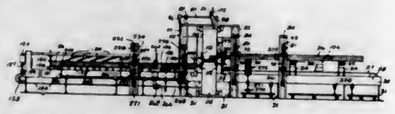
2,160,306
HUSKING DEVICE
Wilbur J. Coultas, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 14, 1936, Serial No. 100,639
9 Claims. (Cl. 130—5)



7. In combination with a cylindrical husking roll, a husking peg of V-shaped cross section, comprising a pair of flange portions intersecting in a line extending longitudinally of said peg, and means for securing said peg to said roll in a position with said line of intersection extending substantially radially with respect to said roll.

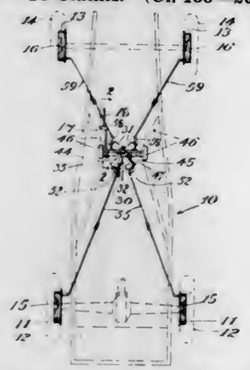
2,160,307
RANDOM LENGTH BUNDLE TRIMMER
Emmett G. Cleveland, Raymond, Wash.
Application February 10, 1936, Serial No. 63,255
21 Claims. (Cl. 143—33)

1. In a bundle trimming machine, a bundle supporting means moving a bundle transversely of the length of the bundle and into a trimming position; bundle clamping means securely clamping a bundle and holding said bundle immovable in said trimming position; movably mounted trimmer means movable in a plane transversely of the length of the bundle and operatively positioned as respects an end portion of said clamped bundle; clamp releasing means operable after the bundle has been trimmed; and means retracting the bundle supporting means permitting the bundle to be dropped and rapidly moved out of trimming position.



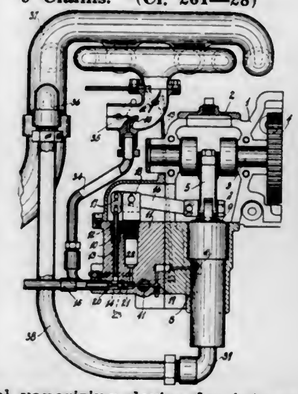
19. In a random length bundle trimming machine, bundle moving means moving a bundle transversely into a trimming position; bundle trimmer means operatively positioned as respects one end portion of a bundle in said trimming position; transfer means receiving said trimmed bundle and moving said bundle longitudinally; a plurality of longitudinally spaced apart stop members movable out of and into bundle stopping position and normally in bundle stopping position, said stop members being positioned in the longitudinal path of movement of the bundle; stop member control means controlling the operation of said stop members and operatively positioned in the longitudinal path of travel of the bundle and in advance of the stop members as respects said path of travel, said control means being responsive to a bundle passing thereby to move the stop members out of normal bundle stopping position; another bundle trimming means; and devices operating said trimming means to trim said trailing end portion of said bundle.

2,160,308
BALL TRANSMISSION MECHANISM
Asbury S. Edmonds, Brooklyn, N. Y.
Application September 6, 1934, Serial No. 742,919
14 Claims. (Cl. 188—204)



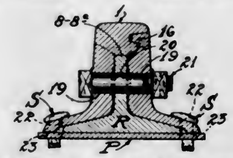
1. A ball transmission means interposed between a pedal operating part and the four several brakes associated with the four wheels of a vehicle, comprising a housing having ball accommodating portions corresponding in number with the wheels and extending from an intercommunicating portion, contiguously associated balls disposed one in each of said portions, a master ball arranged to be actuated from said pedal operating part, said portions being so related that said master ball rests centrally upon the adjacent surfaces of at least three other balls severally disposed in different portions and said master ball adapted, when actuated, to act on said three balls and cause the displacement of all the balls in said portions, a spring urged plunger device in each portion abutting the ball therein and adapted on the displacement thereof to be yieldingly moved outwardly, and operating means connecting each plunger device with the corresponding brake whereby to actuate the corresponding brake on the actuation of the plunger device.

2,160,309
FUEL VAPORIZING UNIT FOR ENGINES
Conard Warren Huffman, Lynwood, Calif.
Refiled for abandoned application Serial No. 574,857, November 13, 1931. This application February 5, 1938, Serial No. 188,991
9 Claims. (Cl. 261—28)



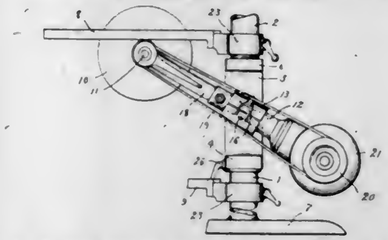
1. A fuel vaporizing device for internal combustion engines comprising a cylinder, a piston in said cylinder, means to reciprocate said piston, a fuel pump, means to actuate said pump, a conduit extending from the fuel pump to said cylinder whereby fuel is fed to the cylinder, fuel outlet means extending from the cylinder, a fuel supply line extending to the fuel pump, a by-pass extending from said conduit to the fuel supply line, a check valve in the by-pass, and an inert gas supply line extending to the cylinder whereby inert gas is supplied to the cylinder before the fuel is being compressed therein.

2,160,310
SPLICE BAR
Keith C. Johnson and Robert C. Dunsmore, Pittsburgh, Pa.
Application July 22, 1937, Serial No. 154,960
3 Claims. (Cl. 238—226)



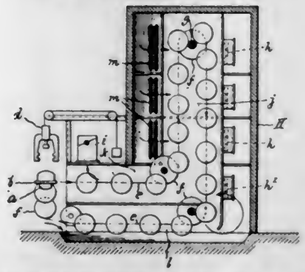
1. In a joint for track-rails having their head portions cut away in the region of the rail ends, a female splice-bar comprising a flange and a web shaped to engage corresponding parts on one side of the rails, and an integral head portion having the contour of the head of the rails to replace the cut away portions thereof and provided at the lateral side with an outwardly flaring longitudinal groove the median plane of which is parallel with the head portion of the rails; the male splice-bar comprising a flange and a web shaped to engage corresponding parts on the other side of the rails; a tapered tongue on said web longitudinally slidable and fitting within said groove, and means to clamp said splice-bars and rails together.

2,160,311
TOOL STAND
Gilbert O. Kaasa, Keewatin, Minn.
Application July 21, 1938, Serial No. 220,574
4 Claims. (Cl. 29—1)



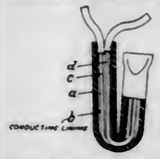
4. A tool stand for supporting a tool holder and means for rotating said tool holder, comprising a two-part column, a coupling for uniting said parts in axial alignment, said coupling having a bearing therein, the axis of which intersects the axis of said column, and a tool holder and rotating means therefor journalled within said bearing, and means for locking said tool holder and rotating means in any position within said bearing.

2,160,312
APPARATUS FOR VULCANIZING RUBBER ARTICLES
Hans Karthaus, Hanover, Germany, assignor to Continental Gummi-Werke Aktiengesellschaft, Hanover, Germany
Application April 16, 1936, Serial No. 74,616
In Germany August 31, 1935
3 Claims. (Cl. 18—6)



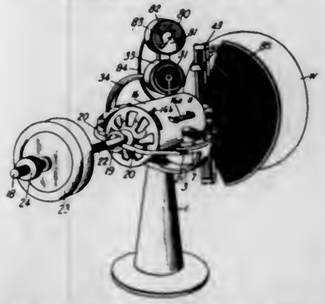
1. In an apparatus for vulcanizing articles contained in lightweight molds permitting rapid exchange of heat, an L-shaped housing, said housing having an opening to the atmosphere for the intake and discharge of said molds and having a plurality of intercommunicating chambers successively arranged in the order of the direction of movement of the molds, said chambers comprising a preheating chamber, a vulcanization chamber, and a cooling chamber, the preheating and the cooling chambers both extending from the opening of the housing, the vulcanization chamber being in the upright of the L-shaped housing and between the preheating and cooling chambers, conveying means for moving the molds successively in said direction of movement through the preheating, vulcanization and cooling chambers, means at one side of the upright of the L for supplying vulcanizing heat to the vulcanization chamber, and means at the other side of said upright and at substantially the same horizontal position as the vulcanizing heat means for drawing the vulcanizing heat to its side, across the space formed by said sides and over and across any molds passing through said space, whereby the molds enter at substantially the same location in respect to the housing as they are discharged and are successively subjected to a preheating, vulcanization and cooling by air under atmospheric pressure in the housing.

2,160,313
WIRE JOINT, ESPECIALLY FOR ELECTRICAL SHOT-FIRING OUTFITS OR SIMILAR PROVISIONAL ELECTRICAL CIRCUITS
Wilhelm Norres, Dorsten, Germany
Application March 6, 1937, Serial No. 129,331
In Germany March 12, 1936
3 Claims. (Cl. 174—87)



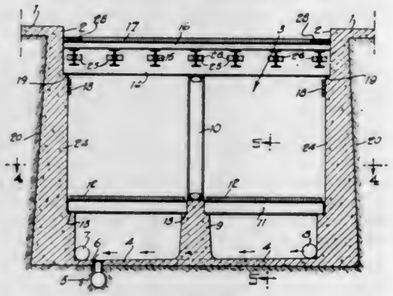
1. A wire joint for connecting wires of electrical ignition circuits for shot-firing outfits or similar provisional electrical circuits, said joint comprising a tubular shaped bushing of insulating material, a pair of insulated wires having their ends free of insulation and exposed, engaging the open end of the bushing, only the insulated parts of the wires protruding from the bushing, and a conducting lining interiorly of said bushing and contacting with said exposed uninsulated ends of said wires, said bushing together with said conducting lining being sharply bent, with the ends of the bushing adjacent each other, to remain in the position to which the bushing was bent.

2,160,314
BALANCING MACHINE
Theodore Ongaro, Columbus, Ohio
Application November 16, 1935, Serial No. 50,236
16 Claims. (Cl. 73—51)



1. A balancing machine comprising a balancing unit including a shaft, means for mounting the shaft at a point intermediate its ends for universal rocking movement, means for rotating the shaft, means for mounting a body to be balanced on one end of said shaft, weights on the other end of said shaft adjustable longitudinally thereof for counterbalancing the weight of said body, an arm carried by said shaft on the end which carries the body, said arm extending radially from the shaft at opposite sides thereof, and a balancing weight carried on each end of said arm, the balancing weights carried by said arm being adjustable towards or away from each other.

2,160,315
DOUBLE-DECKED GRATING-PAVED STREET
Burton A. Prince, Westfield, Mass., assignor to Walter E. Irving, Glenbrook, Conn.
Application September 12, 1936, Serial No. 100,436
11 Claims. (Cl. 94—1)



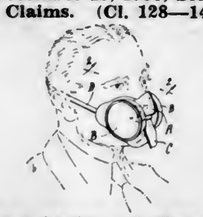
1. A highway structure particularly adapted for motorized traffic and adapted to effect automatic removal of falling snow from the path thereof comprising the combination of a foundation therefor including a trench of relatively large cross section extending lengthwise below the surface of such highway and provided with a waterproof bottom surface, together with means for draining the same, and an open mesh grating, the open spaces in which have an aggregate area exceeding fifty per cent. of its total area, supported over said trench at the proper level for accommodating said traffic and serving as a self-cleaning screen forming the surface of a major portion of such highway affording open passage through the same for light and air to the lower level and for rain and snow to the drain below, together with a second grating supported in said trench at a distance from the bottom thereof sufficient to allow room for men working beneath it and at a distance below said first mentioned grating sufficient to afford room for motorized traffic thereon.

2,160,316
BRACELET CONNECTOR
Saul Ritter, Far Rockaway, N. Y., assignor, by mesne assignments, to The Hadley Company, Inc., Providence, R. I., a corporation of Rhode Island
Application October 6, 1934, Serial No. 747,163
15 Claims. (Cl. 24—71)



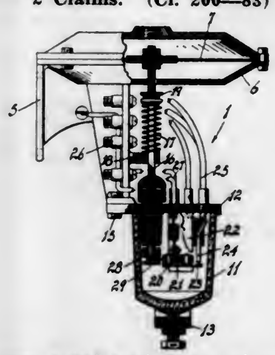
2. An adjustable connector for a bracelet comprising two slidable members connected to slide endwise one upon the other, a folding member, pivotal means connecting the folding member to one of the sliding members, said folding member connecting one end of the bracelet to the sliding members, self-acting means operative when one of said members is moved endwise to hold said slidable members in adjusted positions, lateral guides on one of said slidable members, a push-bar movable in said guides for engagement with said self-acting member whereby said slidable members have free movement and a member carried by said pivotal means for disengaging said self-acting member when said folding member is unfolded.

2,160,317
RESPIRATOR
Nathan Schwartz, New York, N. Y.
Application December 18, 1936, Serial No. 116,456
6 Claims. (Cl. 128—146)



1. A respirator having a hollow mask body of molded elastic material which body is adapted to engage the face of the wearer and the said body has lateral sides and filter units which filter units are connected to the said body at the said lateral sides and the said connections have attachably included deformable supporting elements which elements are directed towards the body of the respirator and pressingly engage the lateral nasal areas of the said body and thereby cause an air tight juncture of the body of the respirator and the face of the wearer at the said nasal areas.

2,160,318
OVER SPEED ENGINE CONTROL
Ernest V. Stone, Los Alamitos, Calif.
Application September 8, 1936, Serial No. 99,797
2 Claims. (Cl. 200—83)

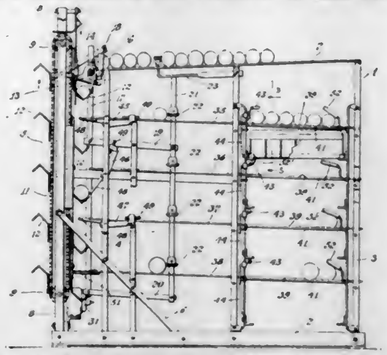


1. An over speed engine control comprising a bracket, a diaphragm chamber integrally formed with the bracket, a diaphragm in said chamber, an air pressure nozzle connected to the chamber whereby air under pressure is conducted to said chamber, said nozzle being mounted adjacent the fly wheel of the engine and receiving air under pressure from said fly wheel, a rod attached to the diaphragm and extending out of said chamber, a coil spring surrounding the rod, an adjustable nut on the rod, said spring bearing against the nut, a cup mounted on said bracket, said rod extending into the cup, a switch in the cup, said switch including a block, a ground contact on the block, a stationary terminal, and means operable on movement of the rod whereby said contact and terminal are engaged and disengaged.

2,160,319
EGG GRADING AND PACKING MACHINE
George A. Swartz, Hillsdale Manor, N. J.
Application March 11, 1936, Serial No. 68,171
4 Claims. (Cl. 209—121)

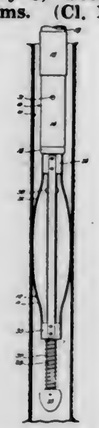
2. In an egg grading and packing machine,

means for intermittingly feeding eggs, a continuously moving conveyor cooperatively mounted with respect to said feeding means, said conveyor having egg receiving pockets, grade tracks having associated therewith, weighing devices severally adjusted and in the path of said conveyor to intercept eggs of predetermined weights, and a link mechanism common to said feeding



means and grade tracks, said link mechanism rendering the feeding means ineffective without stopping the conveyor, whereby the feeding of eggs may be arrested whenever any of the grade tracks have been filled to a capacity designed to actuate said link mechanism, said link mechanism being independently operable with respect to said conveyor.

2,160,320
BAILER
David Clinton Walker, Long Beach, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California
Application January 3, 1938, Serial No. 183,013
10 Claims. (Cl. 166—19)



1. A bailer for introducing material into a well comprising a body for containing the material, the body having an outlet for the material, a valve seating downwardly to close the outlet, and a control for the valve including a tailpiece frictionally cooperating with the wall of the well and shiftably connected with the valve, and latch means for connecting the valve and tailpiece to latch the valve against downward movement relative to the tailpiece whereby downward movement of the body relative to the tailpiece opens the valve.

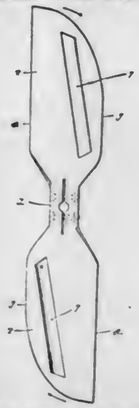
2,160,321
ELECTRODEPOSITION OF TUNGSTEN ALLOYS
Harry Howard Armstrong and Arthur Burley Menefee, Beverly Hills, Calif., assignors to Tungsten Electrodeposit Corporation, Washington, D. C., a corporation of Delaware
No Drawing. Application February 6, 1936, Serial No. 62,697
11 Claims. (Cl. 204—2)

11. The process of producing electrodeposited plates containing tungsten metal which comprises dissolving a tungsten containing compound and a compound of a metal co-platable with tungsten, chosen from the group consisting of tantalum, nickel, cobalt and manganese in an aqueous bath comprised of the reaction products of an alkali bifluoride and phosphoric acid, adding an organic acid and electrolyzing the bath at a pH of between 5 and 6.2.

2,160,322
ELECTRODEPOSITION OF TUNGSTEN ALLOYS
Harry Howard Armstrong and Arthur Burley Menefee, Beverly Hills, Calif., assignors to Tungsten Electrodeposit Corporation, Washington, D. C., a corporation of Delaware
No Drawing. Application June 24, 1935, Serial No. 28,187
19 Claims. (Cl. 204—2)

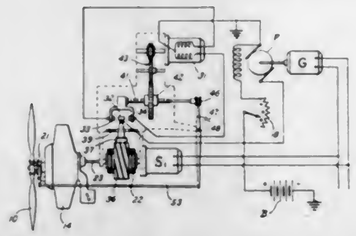
3. A method of producing protective electrodeposited plates which comprises electrolyzing an aqueous solution of an alkali bifluoride containing dissolved tantalum, tungsten and nickel.

2,160,323
PROPELLER
Tracy B. Barnett, Carthage, Miss.
Application June 15, 1937, Serial No. 148,373
1 Claim. (Cl. 170—172)



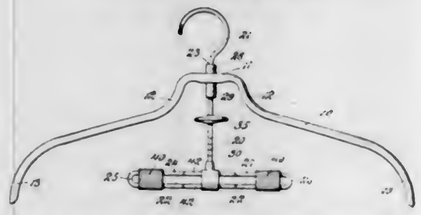
In a propeller of the class described, a blade of solid construction and having a pressure face and a vacuum face and said blade having a longitudinally extending elongated slot therein, the hub end of which is farther from the trailing edge than is the tip end thereof from said edge, said slot sloping gradually from a point on the pressure face adjacent the leading edge of the blade to a point on the vacuum face closer to the trailing edge than the leading edge, the sloping front wall of the slot being flat and acting to direct the air passing through the slot along the rear portion of the vacuum face of the blade and the major part of the rear wall of the slot paralleling the front wall but terminating in a curved portion which merges into the rear part of the vacuum face of the blade, the air passing through said slot acting to relieve the vacuum on the vacuum side of the blade.

2,160,324
INTERNAL COMBUSTION ENGINE
Donald M. Berges, Montclair, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application December 15, 1937, Serial No. 179,995
4 Claims. (Cl. 170—135.6)



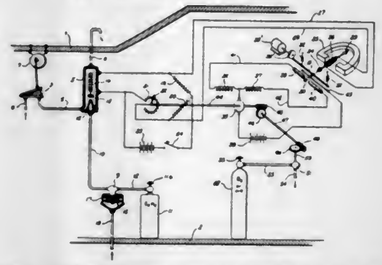
1. The combination with a plurality of variable speed internal combustion engines of means including an equal plurality of electric motors operable in response to deviation of said engines from a pre-selected speed, restoring means responsive to operation of said motors to return said engines to said pre-selected speed, and means for de-energizing said motors in response to the return of said engines to said pre-selected speed, said de-energizing means including electric circuits individual to each of the motors, each circuit having a shiftable circuit breaker associated therewith, and means individual to each circuit breaker for shifting said circuit breakers in synchronism with the rotation of their respective motors, said shifting means including a gear train constituting a part of said restoring means.

2,160,325
GARMENT HANGER
Norman E. Brooke, Washington, D. C.
Application December 14, 1936, Serial No. 115,834
10 Claims. (Cl. 223—91)



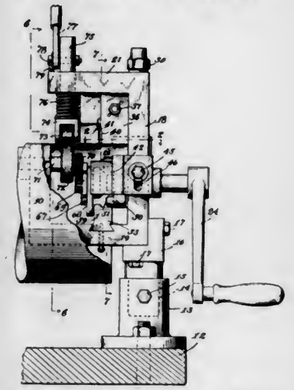
1. In a garment support, the combination of a coat hanger, a trousers or skirt hanger cooperating therewith, a camming slide on the trousers or skirt hanger for closing and opening the same, and clamping devices on the trousers or skirt hanger for holding the two hangers in proper relationship one to the other and for stopping the upward movement of the camming slide so as to protect the hand of the user.

2,160,326
APPARATUS FOR CONTROLLING THE AMOUNT OF A GAS IN A CLOSED REGION
Victor E. Carbonara, Rockville Centre, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 19, 1934, Serial No. 758,341
10 Claims. (Cl. 128—191)



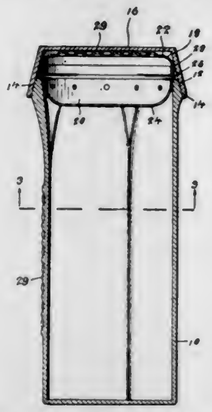
1. In combination, an oxygen tank containing oxygen under pressure, means for supplying said oxygen to a desired region containing air, means for obtaining a sample of said air from said region, means for producing combustion by the oxygen in said sample of air, whereby a temperature is produced which changes in accordance with the amount per unit volume of said oxygen in said sample of air, control means responsive to said temperature changes, and means operable by said temperature responsive control means for operating said oxygen supplying means to supply said oxygen to said desired region in substantially inverse proportion to the amount per unit volume of said oxygen in said sample of air.

2,160,327
MACHINE FOR NOTCHING AND BENDING PIPES
Harold Vincent Dunn, Olean, N. Y.
Application May 17, 1937, Serial No. 143,156
Renewed September 26, 1938
15 Claims. (Cl. 153—2)



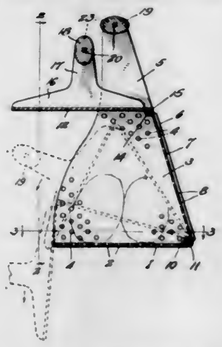
1. In a machine for cutting and bending tongues around the end of a pipe, the combination of cutting and bending die members one of which is movable, devices to feed the pipe end around step by step between the die members, means to operate the movable die member to successively cut and bend the tongues, and means to automatically operate the feeding devices after each tongue is cut and bent.

2,160,328
WASHER
Morris D. Durham, Chicago, Ill.
Application June 22, 1936, Serial No. 86,629
1 Claim. (Cl. 68—214)



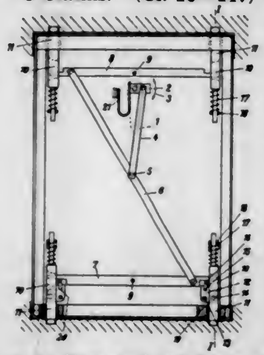
A manually agitated washer comprising a receptacle having an open end, a perforated soap containing element shaped to fit partly inside the open end of the receptacle, means carried by the soap containing element and extending over edge portions of said open end of the receptacle, and a cover for closing the open end, said cover being so constructed as to partly house the soap containing element and for holding said means in operative relation with the receptacle.

2,160,329
POTATO RICER AND PRESS FOR FRUITS AND VEGETABLES
Ida J. Fedje, Berwick, N. Dak.
Application December 9, 1937, Serial No. 178,992
6 Claims. (Cl. 146—176)



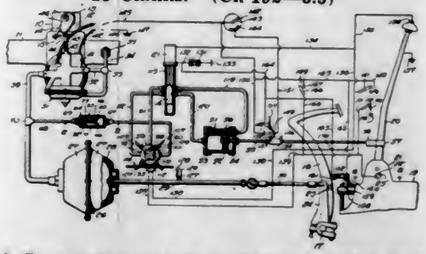
1. A device of the character described comprising a body open at its front and having a bottom and side walls of perforated material, a rear wall of perforated material pivoted at its lower end for swinging movement between the side walls, a closure for the open front of the body pivoted at its upper end to the upper end of the rear wall for swinging movement towards and away from the same between the side walls of the body, and an operating handle carried by the closure.

2,160,330
DOOR MOUNTING AND LATCHING MEANS
Carl Hass, Karlshorst, near Berlin, Rudolf Witt, Berlin-Friedenau, and Wilhelm Quade, Furstenwalde, Spree, Germany, assignors to Julius Pintsch Kommanditgesellschaft, Berlin, Germany
Application January 30, 1936, Serial No. 61,610
In Germany January 30, 1935
5 Claims. (Cl. 16—147)



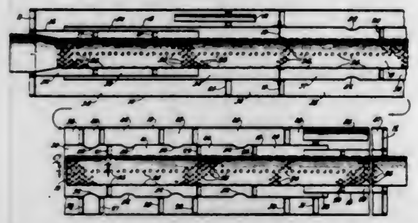
1. Door mounting and latching means comprising two pairs of vertically aligned bolts, one pair on each of two opposite sides of a door, a manually movable element, and means actuated by movement of said element in one direction to maintain the first pair of bolts in hinging position and withdraw the second pair from hinging position, and actuated by movement of said element in the opposite direction to maintain the second pair in hinging position and withdraw the first pair from hinging position, said means comprising rocking bars engaging the corresponding bolts of both pairs, lever means pivotally connected to opposite ends of said bars so that upon rocking of one bar in one direction, the other bar moves simultaneously in the opposite direction, and means connecting said manually movable element and said lever means.

2,160,331
AUTOMATIC GEAR SHIFTING MECHANISM
Edward G. Hill, Richmond, Va., assignor to Hill Engineering Corporation, Richmond, Va., a corporation of Virginia
Original application June 28, 1934, Serial No. 732,946. Divided and this application July 9, 1936, Serial No. 89,824
13 Claims. (Cl. 192—3.5)



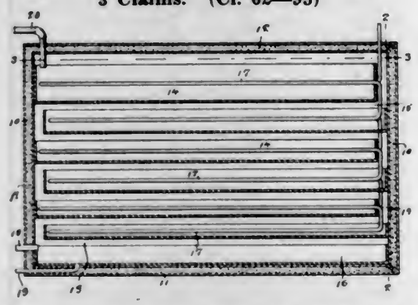
1. In a motor vehicle including a clutch and a transmission having a shifting member movable between two positions for transmitting power at different ratios for forward vehicle movement, a power device having a movable member connected to said shifting member, control means for said power device, and means operative upon each disengagement of the vehicle clutch for causing said control means to effect the actuation of said power device to effect movement of said shifting member successively between its two positions.

2,160,332
SILENCER
Paul Huber, Milford, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 23, 1937, Serial No. 121,997
3 Claims. (Cl. 181—48)



1. In a silencer through which gases travel and sound waves enter: means defining a duct and a chamber which communicates with the duct as a side branch; the mentioned means being so arranged that the gases travel through the duct substantially to the exclusion of the chamber; the wall of the duct being bulged inwardly in advance of the means of communication between the chamber and the duct to deflect gases away from the means of communication and thus avert the production of a whistling noise.

2,160,333
THERMAL ACCUMULATOR
Marshall E. Johnston, St. Petersburg, Fla.
Application November 2, 1937, Serial No. 172,463
3 Claims. (Cl. 62—95)



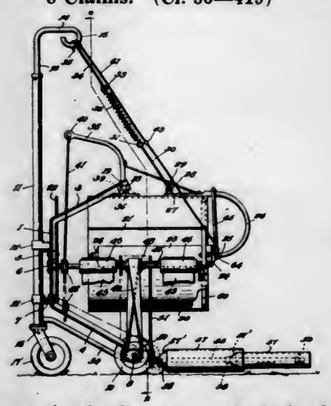
1. The combination with an enclosure for freezing or cooling, of a series of superposed vertically spaced and staggered arranged trays therein, being spaced from each other and from the bottom of the enclosure and also staggered in their set relation to each other, a liquid filling the respective trays, the trays being decreased in capacity from the uppermost to the lowermost of the series, a series of freezing coils immersed in the contents of said trays and adapted for connection with a refrigerating condensing unit of the compression or absorption type, and means for admitting liquid to the uppermost tray of the series for the gravitation of such liquid successively to the lowermost trays, said freezing coils being arranged substantially at one half the depth of the contents of the respective trays.

2,160,334
HEAD-FREE RAIL JOINT
Horace L. Lansing, Rutherford, N. J., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Application August 26, 1937, Serial No. 161,131
1 Claim. (Cl. 238—243)



A rail joint structure including the rails and a headfree type splice bar having clearance from the underside of the rail heads and a flanged foot overlying and bearing upon the rail flanges at a distance outward from the base fillets of the rails, the head of the splice bar having the medial portion of its upper inner corner provided with a localized overfill of metal projecting inwardly a distance beyond the plane of the remainder of the upper inner corner of the bar head and adapted to have loading engagement with the head fillets of both rails at the center of the joint, and bolting means for flexing the end portions of the bar into loading engagement with the head fillets of the respective rails.

2,160,335
GRAIN SHOCKER
Albin P. Lofstrand, Chicago, Ill.
Application July 19, 1938, Serial No. 220,066
8 Claims. (Cl. 56—419)

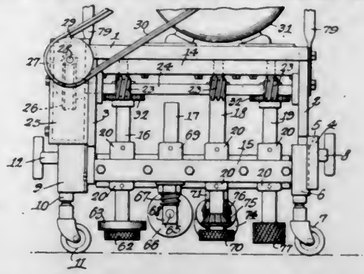


1. In a grain shocker, a receptacle for bundles open at its ends and mounted for movement from a horizontal position to a vertical position, means for delivering bundles into said receptacle when in its horizontal position, and a spreader disposed under said receptacle for extending through a cluster of bundles dropped upon the ground from the receptacle when the receptacle is in its vertical position and shifting lower ends of the bundles away from each other for maintaining the bundles upright in shock-forming relation to each other.

2,160,336
ROOF SEAMING MACHINE
Omer R. Maxfield, Temple, Tex.
Application May 26, 1938, Serial No. 210,249
2 Claims. (Cl. 113—55)

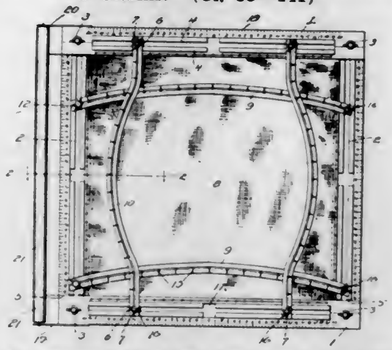
1. A machine for forming standing seams on flanged roofing sheets including a wheel-supported frame, shafts arranged in pairs and sup-

ported within the frame, one shaft of each pair being mounted for lateral swinging, motor driven means on the frame for simultaneously driving the shaft of two pairs, gripping rolls carried by the shaft of said driven pairs positioned to receive the upstanding flanges therebetween and to grip them, means rotatable with one roll of one of the pairs for overturning the upper portion of one of the gripped flanges, all of said gripping rolls cooperating with the flanges to propel the machine along the flanges, cooperating rolls on one pair of shafts for folding the laterally turned portion of one of the flanges downwardly against



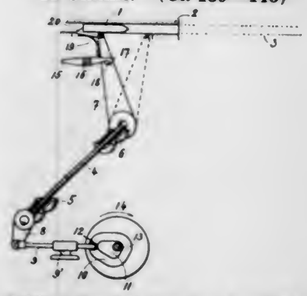
the opposed flange, and means rotatable with said last named rolls for transmitting motion in opposite directions from one to the other, adjustable yielding means engaged by one shaft of each of the pairs and constituting a bearing therefor, for urging the roll on said shaft toward the opposed shaft of said pair, and a yieldingly pressed roll interposed between the rolls of two of the pairs for imparting an intermediate bend to the laterally turned flange during the movement of the machine along the seam, and means for adjusting the frame of the machine toward or from its supporting surface to vary the elevation of the rolls relative to said surface.

2,160,337
GARMENT BLOCKING DEVICE
Hugh McKee, Sapulpa, Okla.
Application June 7, 1937, Serial No. 146,947
2 Claims. (Cl. 38—141)



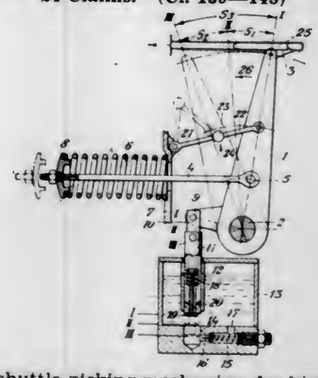
1. A garment blocking device for use with a steam pressing machine and comprising a frame, garment attaching members connected to and slidably mounted on the frame in bridging relation thereto for adjustment with respect to each other to fit garments of various sizes and for spreading the same between said members, said members being of various shapes corresponding to the shape of various portions of the garments, means for securing said members in adjusted positions on the frame, a sheet of material secured to the confronting edges of the frame for disposal between the same in taut condition, said sheet providing garment supporting means and being porous for the passage of steam therethrough to the garment, and covering means attached to the frame for disposal over the garment for trapping the steam about the same.

2,160,338
SHUTTLE PICKING MECHANISM
Albert Moessinger, Zurich, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application February 9, 1937, Serial No. 124,846
In Switzerland February 22, 1936
15 Claims. (Cl. 139—145)



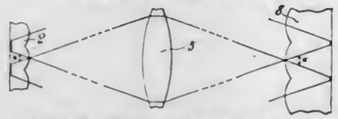
1. A picking mechanism for shuttles for looms for weaving comprising a torsion spring of substantially rod-like configuration, a shuttle picking means connected substantially adjacent to one end of said spring and a tensioning means connected substantially adjacent to the other end of said spring for tensioning said spring after the pick.

2,160,339
SHUTTLE PICKING MECHANISM
Albert Moessinger, Zurich, Switzerland, assignor to Sulzer Freres Societe Anonyme, Winterthur, Switzerland
Application February 9, 1937, Serial No. 124,847
In Switzerland February 28, 1936
24 Claims. (Cl. 139—145)



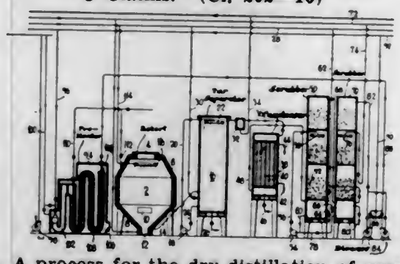
1. A shuttle picking mechanism for high speed, high capacity looms for weaving comprising a picker, operating means connected thereto and adapted to periodically operate said picker for picking the shuttles across the loom, brake means connected with said picker, said brake means comprising an operating medium, a cylinder, a piston adapted to operate in said cylinder, pressure control means connected with said cylinder for controlling the pressure of the operating medium in said cylinder, cylinder filling means which refill said cylinder with operating medium immediately after completion of the braking stroke of said piston and which operate independently from said pressure control means.

2,160,340
METHOD AND DEVICE FOR OBTAINING OR REPRODUCING COLOR PHOTOGRAPHS
Charles Nordmann, Paris, France
Application October 5, 1936, Serial No. 104,131
In France October 7, 1935
5 Claims. (Cl. 88—24)



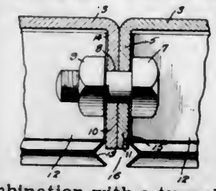
3. A method of photographically copying a lenticular photographic element having lenticulations with predetermined absolute apertures upon a second lenticular photographic element having lenticulations with equal absolute apertures, comprising spacing the two elements from one another with their lenticulations facing and passing light through said first named element to the sensitive surface of said second named element, the distance between the lenticular surface and sensitive surface of said second named element being greater than the distance between the corresponding surfaces of the first named element to make the relative aperture of said second named element less than the relative aperture of said first named element.

2,160,341
PROCESS FOR THE CARBONIZATION OF ORGANIC CELLULOSIC MATERIALS OF VEGETABLE ORIGIN
Theophil Reichert, Brilonwald, Germany, assignor to the firm of Deutsche Gold- und Silber Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany
Application December 15, 1936, Serial No. 116,034
In Germany December 24, 1932
5 Claims. (Cl. 202—16)



1. A process for the dry distillation of organic cellulosic distillable material of vegetable origin, in a retort heated internally only, which comprises supplying a hot gas at the top of a bed of such material of substantial depth within said retort to distill the material destructively while avoiding decomposition of the volatile substances evolved from the material by heating, passing said gas while still hot downwardly through the material in the retort at a rate of between 0.1 and 3 cubic meters per hour per kilogram of the material to be carbonized, the gas being fed at such a velocity and in such a quantity that the carbonization of the material proceeds gradually downwardly, that the temperature difference throughout the mass is maintained low, and that condensation of the evolved volatile substances in the lower part of the material is substantially prevented, and recovering distillation products from such gas.

2,160,342
AUXILIARY CALKING FLANGE FOR TUNNEL LINING JOINTS
John Marshall Ribble, Petersburg, Va.
Application August 15, 1938, Serial No. 225,041
6 Claims. (Cl. 61—45)



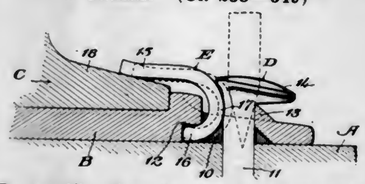
1. In combination with a tunnel lining consisting of a plurality of flanged plates with the flanges of adjacent plates abutting forming a linear joint, auxiliary calking means adapted to be clamped along the opposite sides of said abutting flanges and extending beyond the tops of said flanges, the extending part of said means being shaped to define a calking-receiving channel.

2,160,343
SULPHURIC ACID DERIVATIVES OF POLYISOBUTYLENE
John Ross, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application July 21, 1937, Serial No. 154,933
9 Claims. (Cl. 260—460)

1. The process of preparing aliphatic sulphoxy acids and salts which comprises reacting a polyisobutylene of the group consisting of tetraisobutylene and pentaisobutylene with an agent of the group consisting of sulphur trioxide and the acid derivatives thereof.

6. A mixture of tetraisobutane sulphates and tetraisobutane hydroxy sulphonates.

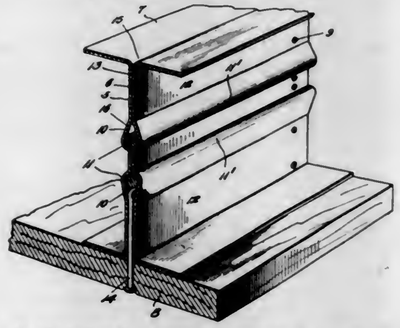
2,160,344
TIE PLATE AND RAIL CLIP COMBINATION
Thomas Ryan, Joliet, Ill., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Application March 5, 1938, Serial No. 194,186
2 Claims. (Cl. 238—349)



1. In combination, a cross tie, a tie plate resting thereon, said tie plate having a spike hole and a recess adjacent to the inner end of said hole opening into the latter and through the bottom of the tie plate, a lip overlying the inner portion of said recess, a resilient clip including

upper and lower arms and a substantially U-shaped portion connecting said arms, said arms and said connecting portion being of such thickness that the arms may readily spring toward and away from each other, the lower arm being disposed in said recess and having its inner end portion underlying said lip, the upper arm overlying the rail flange, a spike driven into the tie through said hole outwardly of said clip and having horizontal line contact with the substantially U-shaped arm connecting portion of said clip substantially medially of said connecting portion and exerting inward pressure against said clip, thereby maintaining the clip in an inwardly crowded position with its upper arm in contact with the rail flange and spread relative to the lower arm, whereby the upper arm resiliently engages the rail flange yieldably and holds the rail against upward movement, and a lug on the tie plate at the outer end of the spike hole engaging the head of the spike and limiting driving of the latter, thereby to protect the clip against being crushed, and also engaging the outer face of the spike in the plane of the line contact of the spike with the clip, thereby to effectively hold the spike against becoming canted outwardly under the influence of the outward pressure exerted thereagainst by the clip.

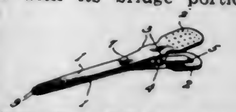
2,160,345
STRUCTURAL STEEL ELEMENT
Andrew I. Syak, Girard, Ohio
Application March 9, 1938, Serial No. 194,927
4 Claims. (Cl. 189—37)



1. A structural beam comprising mating sections having terminal flanges adapted to receive a nailing strip and connected by a vertical web, opposed portions of the walls of the web being pressed laterally outward to form a longitudinally disposed seat extending the full length thereof, a combined reinforcing rod and clinching member fitting in said seat and having uninterrupted contact with the side walls of the seat, and securing devices adapted to pass through the nailing strip and between said sections and into said seat for engagement with the confronting surface of the clinching member to deflect the ends of the securing devices.

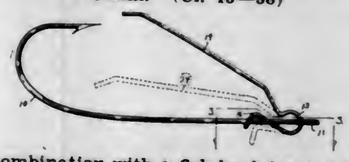
2,160,346
CURL CLIP
Grace Valentine, Shoshone, Idaho
Application February 4, 1938, Serial No. 188,751
1 Claim. (Cl. 132—31)

A curl clip comprising companion sheet metal members each providing an elongated narrow jaw having a handle formed integral therewith and at the junction of the jaw with the handle being provided with short side arms bent to form pivot ears, the pivot ears of one member being disposed in overlapping relation to the pivot ears of the other member, a pivot pin extending through the overlapping pivot ears, and a spring consisting of a strip of resilient metal bent to assume substantially a V-shape and provide diverging arms connected at their forward end by a curved bridge, said spring being disposed between the handles with its bridge portion engaging



about the pivot pin and its arm extending rearwardly therefrom and bearing against the inner faces of the handles, and said jaws being tapered towards their free front ends and bent in advance of the ears to provide forwardly converging portions disposed in the plane of the handles and having parallel portions extending forwardly from the converging portions at an angle thereto in flat contacting engagement with each other from the bends to the free ends of the jaws.

2,160,347
DETACHABLE WEED GUARD FOR FISH-HOOKS
Michael E. Walsh, Chicago, Ill.
Application May 6, 1937, Serial No. 141,105
1 Claim. (Cl. 43—38)



In combination with a fish hook having a stem portion, a spear portion and an eyelet, a weed guard comprising a double strand hump portion, a connection portion connecting the two ends of said double strand hump portion; said double strand hump portion being designed to normally extend at each side of the stem of said hook by frictional contact, a strand loop portion extending from the other end of one of said double strand hump portions and loosely extending through the eyelet of said hook, and an arm portion extending from the upper end of said strand loop portion terminating at a point in the vicinity of said spear portion of said hook.

2,160,348
GEAR SHIFT LEVER ASH RECEIVER
Alfred J. K. Wallace, Astoria, Oreg.
Application May 21, 1937, Serial No. 144,065
1 Claim. (Cl. 131—59)

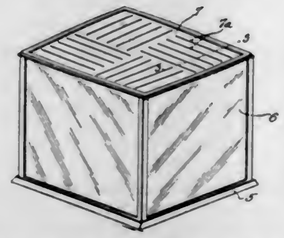
An ash receiver comprising an outer spherical shell having an open upper end, an inner spherical shell providing a receptacle and having a relatively small access and discharge opening therein, said inner shell being made up of two semi-spherical sections having interfitting channel tongues about the meeting edges thereof to provide a circumferentially disposed rib extending outwardly therefrom, said inner shell fitting within the outer shell and mounted for movement about the center thereof for disposing the opening into and out of registration with the open upper end whereby to open and close the receptacle, said outer shell including a body section and a cap section threadedly secured to the

body section to allow removal of the inner shell from the outer shell, said body section having a channel groove therein extending to its upper edges and the rib being slidably mounted in the



groove for guiding the movement of the inner shell in a fixed path, and mounting means for the receiver and secured to and depending from the outer shell.

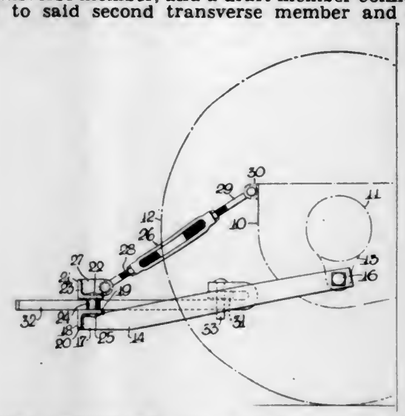
2,160,349
GAME DEVICE
Willard E. Andrews, Sycamore, Ill.
Application December 16, 1937, Serial No. 180,240
4 Claims. (Cl. 273—95)



1. A game device comprising a field having a miscellaneous array of goal values, and a board at an elevation from said field, the board having a plurality of elongated spaced passages over said field for tokens dropped toward chosen ones of said values, said passages comprising vertical slots of a width for the slidable passage of the tokens and of a length substantially greater than the major dimension of the token, and said board being of a thickness sufficient to prevent deviation of the token from a vertical plane while passing through the slots.

2,160,350
DRAWBAR
William O. Bechman, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 12, 1938, Serial No. 195,530
7 Claims. (Cl. 280—33.44)

1. A vehicle draw-bar comprising a pair of substantially straight, longitudinally running side members, the width of each being substantially greater than its thickness and each being disposed with said width in a vertical plane, each member being adapted at its forward end for connection to the vehicle, a transverse member disposed across the rear ends of the side members and having a forwardly extending horizontal portion and a downwardly extending vertical portion, said portions being welded to the upper edge and to the rear edge respectively of each side member, a second transverse member welded to the side members forwardly of the first transverse member, and a draft member connected to said second transverse member and extending rearwardly over and beyond the first transverse member.



2,160,351
TOASTING MACHINE
Kenneth E. Bemis, Oakland, Calif.
Application April 19, 1938, Serial No. 202,909
20 Claims. (Cl. 53—5)

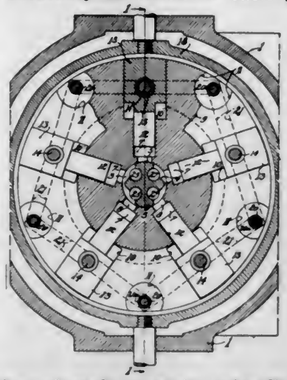


1. A toasting machine comprising; a series of substantially vertical chutes having each a face wall and a series of bread-supporting elements and a terminal bread support; a heating unit in heat-cooperative relation to the lower portion of each chute; and means retracting and projecting said bread supporting elements and said terminal bread support in sequential relation, whereby each support will be retracted to release and drop one slice of bread and immediately thereafter be projected to catch and support the next slice released and dropped from the next support above.

2,160,352
ROTARY PUMP OR MOTOR
Elek K. Benedek, Bucyrus, Ohio
Original application March 12, 1935, Serial No. 10,691. Divided and this application September 2, 1938, Serial No. 228,136
4 Claims. (Cl. 103—161)

1. In a hydraulic pump or motor of the rotary radial piston type including a rotatable barrel having a plurality of circumferentially spaced radial cylinders, valve means therefor, pistons in the cylinders, respectively, a rotatable reactance means for said pistons and adjustable to dispose

its rotative axis coincident with or parallel to and offset from the rotative axis of the barrel, said reactance means having chordal grooves opening toward the zone of the pistons, a single crosspin rotatably mounted in each piston, an



end portion of each crosspin extending beyond the associated piston transversely of the path of rotation of the pistons, and the extending end portion of the pins being received in associated grooves.

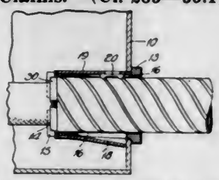
2,160,353

CABLE CONNECTOR FOR OUTLET BOXES

Michael J. Conners, Larchmont, N. Y.

Original application June 4, 1936, Serial No. 83,492, now Patent No. 2,128,040, dated August 23, 1938. Divided and this application January 13, 1938, Serial No. 184,726

2 Claims. (Cl. 285—35.1)



1. A cable connector for outlet boxes comprising a tubular member adapted for insertion in a knock-out opening of an outlet box, said tubular member having a plurality of elongated slots in its side walls, a band encircling said tubular member, a plurality of resilient fingers extending from said band there being one resilient finger for each of said slots and one of said fingers being of such length as to engage within the knock-out opening of an outlet box when the tubular member is in position therein, and conductor engaging means carried by said last mentioned resilient finger and retained in conductor engaging position by engagement of the finger within the knock-out opening of the outlet box.

2,160,354

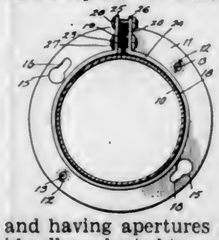
COUPLING FOR FABRIC HOSE

William Hooper Evans, University City, Mo.

Application December 28, 1936, Serial No. 117,960

3 Claims. (Cl. 285—67)

1. A coupling member for connection of an end of a section of flexible tubing, and adapted for securing to a similar coupling member attached to the end of an adjacent section of tubing, comprising a collar portion, means carried by said collar portion adapted to abut and be secured to said similar coupling member, said collar portion adapted to be engaged in the end of the flexible tubing, a clamping band disposed about said collar and adapted to secure said tubing to



said collar and having apertures and projecting beads on said collar adapted to engage said apertures of said band to secure said tubing against longitudinal movement.

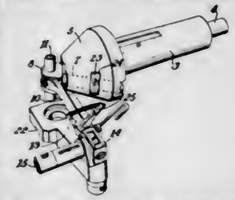
2,160,355

LOOPER MECHANISM FOR SEWING MACHINES

Albert H. De Voe, Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application September 29, 1938, Serial No. 232,249

8 Claims. (Cl. 112—200)



1. In looper mechanism for sewing machines, the combination with a rotary shaft and shaft-head formed with a hollow cylindrical bearing the axis of which is inclined to the axis of said shaft, of a crank-pin journaled in said cylindrical bearing and having a head, a looper, a looper-carrier pivoted to said crank-pin head on an axis transverse to the longitudinal axis of said crank-pin, and a universally tiltable bearing slidably supporting said looper-carrier at a point spaced from said crank-pin head.

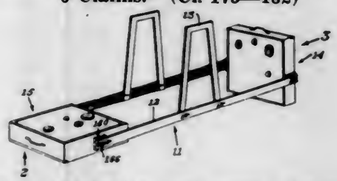
2,160,356

GEOPHYSICAL INSTRUMENT

Harry A. Fore and Albert K. Edgerton, Los Angeles, Calif.

Application September 28, 1937, Serial No. 166,111

6 Claims. (Cl. 175—182)



1. In a geophysical instrument, the combination of a radio transmitter and receiver, each being mounted in a case and each having a loop antenna, means to position the loop antennae at substantially a constant distance apart and at substantially right angles one to the other, at least one of such antennae being constructed to have a high distributed electrostatic capacity compared with variations in the capacity to the ground or surrounding objects.

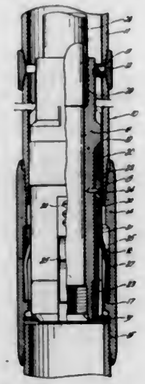
2,160,357

MEANS FOR SETTING DEVICES AT PREDETERMINED LEVELS IN WELL CASINGS AND TUBINGS

Otto Hammer, Whittier, Calif., assignor to Security Engineering Co., Inc., Whittier, Calif., a corporation of California

Application March 23, 1938, Serial No. 197,630

8 Claims. (Cl. 166—10)



1. Means for setting a device at a predetermined level in a well comprising a casing or tubing having means providing an internal upwardly facing shoulder, said shoulder being downwardly and outwardly inclined, there being a recess above said shoulder, an expansible means for supporting the device to be set expansible into the recess and engageable with said shoulder.

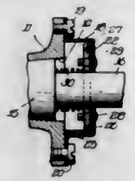
2,160,358

VALVE MECHANISM

Philip S. Harper and George F. Turner, Chicago, Ill., assignors, by direct and mesne assignments, of one-fourth to said Philip S. Harper and one-half to Carolyn L. Harper, both of Chicago, Ill., and one-fourth to Philip S. Harper and Carolyn L. Harper, as trustees

Application January 11, 1937, Serial No. 119,982

2 Claims. (Cl. 251—163)



1. In a valve construction, a valve housing, a valve plug rotatable therein, a closure secured to the housing and having an opening therein, a valve stem connected to the valve plug and extending from the housing through the opening in the closure, a detent disc located between the valve housing and closure and rotatable by the valve stem, the detent disc having a limited rotary play relative to the valve stem, a spring urging the plug against its seat and the detent disc toward the inner face of the closure, the closure and detent disc being provided with at least three substantially evenly spaced relieved portions adjacent the valve stem on one member and coacting rounded raised portions on the other member adapted to engage in the relieved portions of the other member under pressure of the spring.

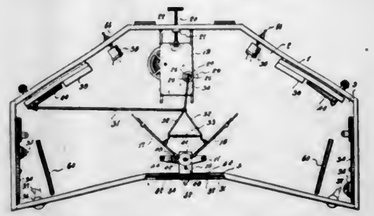
2,160,359

OPHTHALMIC INSTRUMENT

Worthy C. Harper, Caldwell, Ohio, assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application March 10, 1937, Serial No. 130,164

15 Claims. (Cl. 88—20)



4. A myologic instrument including two mirrors supported for movement relative to a common pivot in divergent relation, test implements brought into the field of vision by reflection from the mirrors, means for automatically and progressively increasing and decreasing alternately the divergence of the mirrors to correct abnormal horizontal balance of vision, means to selectively incline the pivot to alter the normal horizontal plane of the mirrors to correct abnormal vertical balance of vision, and dioptric scales for measuring each increment of mirror movement.

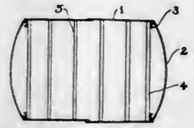
2,160,360

STORAGE TANK FOR COMBUSTIBLE AND INFLAMMABLE MATERIALS

Sidney N. Hassan, New York, N. Y.

Substitute for abandoned application Serial No. 650,219, January 5, 1933. This application December 28, 1935, Serial No. 56,466

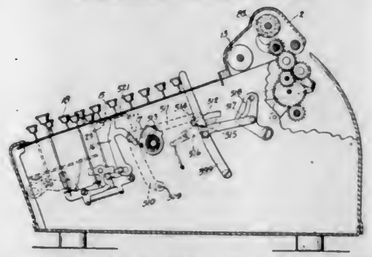
5 Claims. (Cl. 220—1)



5. A storage tank for combustible and inflammable materials comprising; opposed substantially horizontal top and bottom polygonal sides of steel plates, said top and bottom sides being similar polygons with similar sides disposed symmetrically opposite each other; angular sidewalls of steel plates which are arcuated and springing from the perimeter of the top side to the perimeter of the bottom side and joined to said sides by means of welded connections; angular corner junctures formed by adjacent arcuated sides are joined to each other by means of welds; opposed horizontal channel members of steel are joined by means of welds, substantially at the perimeters of the opposed top and bottom sides, as coincident as is practicable with the junctures formed by the arcuated sides and the opposed top and bottom sides; substantially vertical angle members of steel are disposed at intervals along the said opposed horizontal channel members and joined to said members by means of welds; and substantially vertical angle members of steel are disposed

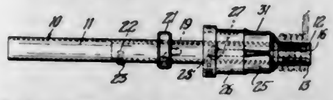
at intervals throughout the horizontal areas of the opposed horizontal sides and joined to said horizontal sides by means of welds.

2,160,361
CALCULATING MACHINE
Stuart Hilder, Glencarlyn, Va., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application March 11, 1931, Serial No. 521,624
8 Claims. (Cl. 235—82)



1. In a calculating machine having a product-dividend register operable to register positively or negatively, a multiplier-quotient register provided with reverse gear driving mechanism, a manually operable device for setting said reverse gear, and control means including a member operable to divide a dividend in said first-named register by a preset divisor and to register the quotient; a connecting member between said control means and said gear setting device, adapted for operation by said control member to adjust the gear for quotient registration unlike the sign of the dividend register operation, and means for restoring said connecting member, said connecting member including a selectively operable extension adapted to leave the gear setting device in its previous hand set position upon retraction of said control member.

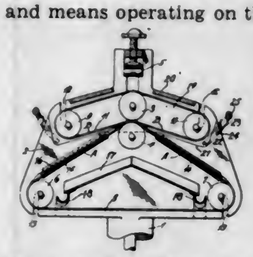
2,160,362
HAIR CURLING DEVICE
Henry Huber, Woodside, N. Y.
Application August 12, 1937, Serial No. 158,674
7 Claims. (Cl. 132—33)



1. A hair curling device of the character described comprising a pair of tubular members one within the other, cooperating means for actuating one said member with respect to the other said member for securing an end of a lock of hair thereto and enabling the lock of hair to be wound upon the outer member for setting the curl, and means for ejecting the set curl of hair from the said device.

2,160,363
CLOTHES WRINGER
Claude T. Jamison, Alton, Ill., assignor to William F. Kramer, Alton, Ill.
Application June 8, 1936, Serial No. 84,019
8 Claims. (Cl. 68—267)

1. A clothes-wringer, comprising, upper and lower pressure rolls, endless flexible upper and lower belts passing between said rolls, means for guiding said belts in rising paths of approach to said rolls, and means operating on the lower belt



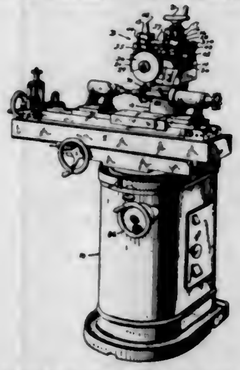
to hollow the upper face thereof in said path of approach to trough shape.

2,160,364
SLIDE FASTENER
Henry L. Kannor, Douglaston, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 19, 1937, Serial No. 131,879
2 Claims. (Cl. 150—42)



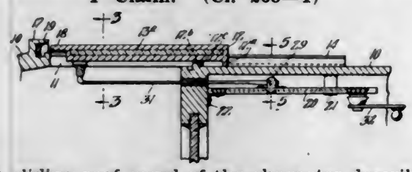
1. In an article having two walls foldable toward each other to form a container, a separable fastener for holding the free edges of said walls together consisting of a pair of tape stringers attached to the free edges of the walls having interlocking fastener elements along their adjacent edges, a slider for engaging and disengaging the same, and a longitudinally extending bead member attached to the outer side of each of said tapes and adapted to lie next to the free edges of said walls, said bead members consisting of a pair of parallel flexible cords attached to the tape stringers and spaced from the interlocking elements thereof.

2,160,365
GRINDING MACHINE
Henry W. Larsson, deceased, late of Albany, Calif., by Josephine D. Larsson, executrix, Albany, Calif.
Application December 1, 1937, Serial No. 177,625
9 Claims. (Cl. 51—92)



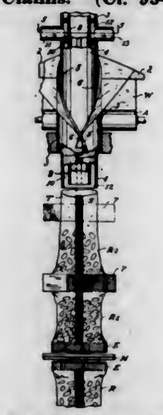
1. In a grinding machine of the character described, a grinding wheel, a dresser bar with a cutter member at one end thereof, a pivotal support for the dresser bar to permit swinging of the bar and cutter member across the peripheral face of the wheel to cut a radial contour in the face thereof, means for raising or lowering the pivotal support to permit cutting of radial contours of varying radial dimensions, a steady rest finger disposed adjacent the wheel, to maintain a predetermined position between each tooth of a tool to be ground and the contoured face of the grinding wheel, and means for moving the cutter bar and steady rest finger in unison to and away from the contoured face of the wheel.

2,160,366
SLIDING ROOF PANEL
Michael Marchenko, New York, N. Y.
Application June 3, 1937, Serial No. 146,176
1 Claim. (Cl. 268—1)



A sliding roof panel of the character described adapted to open and close an opening in a roof of a vehicle, said sliding roof comprising a window enclosed within a frame and slidable in a pair of parallelly spaced tracks on said roof, means for operating the sliding panel in said tracks, said means comprising a rectangular member closed on one side and having a pair of sprocket gears fixedly secured adjacent each outer end thereof, said gears having a sprocket chain, a protruding L-shaped bracket attached to said sprocket chain for carrying one end of an elongated rod the other end of said rod secured to the underside of the forward end of the sliding panel, and one of said sprocket gears furthest from the forward end of the rod having a downwardly directed crank handle adapted to actuate the sprocket chain and rod thereby moving the said sliding panel for opening and/or closing the open part of the roof.

2,160,367
METHOD OF MAKING SEALED PACKAGES
Daniel E. Maxfield, Philadelphia, Pa., assignor to Stokes and Smith Company, Summerdale, Pa., a corporation of Pennsylvania
Application November 27, 1937, Serial No. 176,815
3 Claims. (Cl. 93—3)



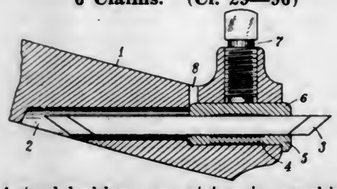
1. The method which comprises intermittently flattening and transversely sealing a tube of web material to form flattened seal sections spaced longitudinally of the tube, solely by intermittently pulling the flattened web material over a tubular form pulling from a supply sufficient web material to form a container, solely by so pulling the web material over the form intermittently reducing the pressure within the tubular form, during each pull upon the web material joining the edges thereof before they pass beyond said form, between successive pulls upon the web material introducing solid filler and conditioning gas into each container in succession through the form in which obtains reduced pressure as aforesaid sufficient alone to draw adequate conditioning gas into the tube, and severing the web through the seal sections to detach the filled containers.

2,160,368
ELASTIC BELT
Israel Monesson, Lakewood, N. J.
Application June 10, 1938, Serial No. 212,941
3 Claims. (Cl. 241—8)



1. In a device of the class described, a strip of elastic material, a flexible tubular member mounted on one end of said strip and extended therefrom, a band of material extended into the open end of said tubular member and out through an opening in the side thereof, and means on said band and the adjacent face of said strip for holding said band in various extended positions for controlling the combined overall length of said strip and band.

2,160,369
TOOL HOLDER
Olof Nilsson Rikof, Broxbourne, Herts, England
Application April 2, 1938, Serial No. 199,592
In Great Britain April 12, 1937
6 Claims. (Cl. 29—96)

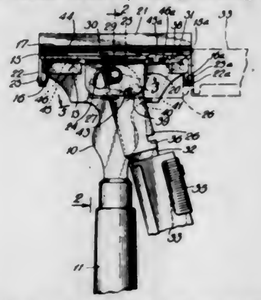


1. A tool holder comprising in combination, a shank having an oblique cylindrical longitudinal tool slot, a semi-circular packing piece swivelly arranged in the front part of said slot and provided with a groove in its plane side to accommodate an angular cutter, the lowermost bearing surface of said cutter having an eased off portion, a clamping member fitted in the shank in a key way adjoining the slot and a clamp screw fitted in the shank so as to bear against said clamping member for holding the elements in position.

2,160,370
RAZOR
Octavius V. Rodrigues, Fairfield, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Original application April 4, 1938, Serial No. 199,815. Divided and this application April 29, 1938, Serial No. 204,967
8 Claims. (Cl. 30—40)

1. A razor comprising a platform, a guard, a

blade holder pivotally supported by the blade platform; the axis of the pivot being parallel with the guard, a blade clamp also pivotally mounted on the blade platform and slidably enclosing the blade holder, the pivoting axes of the



blade holder and the blade clamp being so positioned with relation to each other that as the blade holder is moved toward the guard the blade clamp is biased against it and thus securely clamps the blade.

2,160,371

PROCESS FOR APPLYING COATINGS TO HOLLOW BODIES

Ernst Schnabel, Berlin-Lichterfelde, Germany, assignor to Resistoflex Corporation, New York, N. Y., a corporation of New York

No Drawing. Application November 30, 1937, Serial No. 177,231. In Germany December 5, 1936

4 Claims. (Cl. 154—2)

1. The process of producing hose or tubing having an outer covering of permeable fabric and an inner flexible lining of material having a basis of polyvinyl alcohol which comprises preforming a fabric tube and a lining of polyvinyl alcohol material, the latter having an external diameter such as to slide easily inside the fabric tube, inserting the lining in said fabric tube, subjecting said lining to fluid pressure applied internally and then subjecting the composite tube while under such pressure to an externally-applied hot aqueous bath which penetrates through the fabric and acts upon the lining for a time sufficient to soften the lining so as to cause it to expand and permanently unite with the fabric tubing, and thereafter drying the composite hose.

2,160,372

FUEL-RESISTING MATERIAL

Hermann Stärk, Bad Soden, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application July 17, 1936, Serial No. 91,233. In Germany July 25, 1935

3 Claims. (Cl. 260—87)

1. Devices for storing and conveying mixed liquid fuels containing an aliphatic hydrocarbon and at least one other component selected from the group consisting of aromatic hydrocarbons and aliphatic alcohols, at least the fuel contacting surfaces of said devices consisting of a fuel-resisting material comprising a polymerization product of vinyl formate.

2,160,373

ORNAMENTAL HEEL REINFORCEMENT FOR HOSIERY

Frederick Elwood Struve, Philadelphia, Pa.

Application March 16, 1938, Serial No. 196,117

2 Claims. (Cl. 66—182)

1. As an article of manufacture, a full-fashioned stocking composed of a leg portion, an instep portion, a sole portion, a toe portion, a high heel portion, and a heel portion: said leg and instep portions entirely consisting of plain knitted fabrics formed from a body yarn of uniform color; said sole and toe portions entirely consisting of spliced knitted fabrics formed from the body yarn and a reinforcing yarn of the same color as that of the body yarn; and said high heel and heel portions entirely consisting of



plated fabrics formed from the body yarn and a reinforcing yarn of a color in contrast with that of the body yarn, the fabrics being plated so that the body yarn appears on the outer surface of every other wale and the reinforcing yarn appears on the outer surface of every intermediate wale to form alternating paralleling wale lines of contrasting color extending continuously throughout said high heel and heel portions.

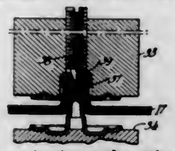
2,160,374

SELF-PIERCING STUD ASSEMBLY

Jeffery J. Veillette, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application August 25, 1937, Serial No. 160,731

8 Claims. (Cl. 24—219)



1. An attaching rivet or the like, of the character described, comprising a radially disposed base having a centrally located, upstanding, hollow, post of generally cylindrical form terminating in a blunt tip which is flattened in a direction transverse to the longitudinal axis of the post with its side edges projecting radially beyond the adjacent cylindrical surface of the post at two diametrically opposite points.

2,160,375

WATER-REPELLENT TEXTILE MATERIAL AND PROCESS OF MANUFACTURING IT

Arthur Voss, Frankfort-on-the-Main-Hochst, and Hermann Staerk, Bad Soden in Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application December 31, 1936, Serial No. 118,678. In Germany January 4, 1936

10 Claims. (Cl. 91—68)

1. A process for waterproofing textile materials which comprises treating the textile materials

with baths containing mixed polymerisates being composed of compounds of the formula:



R_1 and R_2 standing for a member of the group consisting of COOH, COO, alkyl, CN and $CONH_2$ and R_1 and R_2 together stand for



and compounds of the formula:

$$H_2C{=}CHX$$

wherein X stands for a member of the group consisting of R, OR, O.OC.R, R standing for an aliphatic hydrocarbon radical with at least 12 carbon atoms.

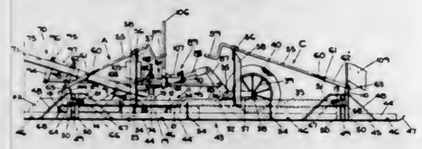
2,160,376

ROAD PLANER

Franklin E. Arndt, Galion, Ohio, assignor to Galion Iron Works and Manufacturing Company, a corporation of Ohio

Application April 22, 1936, Serial No. 75,747

17 Claims. (Cl. 37—150)



1. In a road working apparatus, the combination with a main frame, of a pair of adjustable longitudinally extending runners carried thereby, said runners having guide means at each end formed with vertical slots, adjusting means at each runner end comprising rock shafts carried by said main frame and extending through said slots, arms on said shafts for adjusting said runners, and sliding pin means interconnecting the free ends of said arms and said runners whereby said runners may be adjusted in elevation by rotation of said rock shafts.

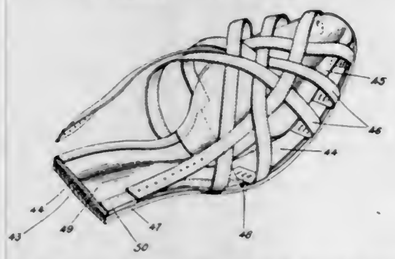
2,160,377

MANUFACTURE OF SANDALS

William Henry Bain, Lewiston, Maine

Application October 12, 1937, Serial No. 168,616

5 Claims. (Cl. 12—142)



1. A method of making sandals, which consists in assembling on a last bottom an insole blank having straps located in edge notches therein and covered by a relatively thin reinforcing sheet and an outsole, and then, after removing the last and stripping off the reinforcing sheet and attaching the strap ends to the underlying outsole.

2,160,378

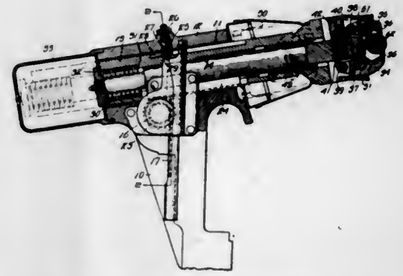
WORK REST

Harold E. Balsiger, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a corporation of Pennsylvania

Application February 8, 1935, Serial No. 5,677

Renewed September 30, 1937

18 Claims. (Cl. 51—238)



1. A work-rest comprising a base, a carrier on said base, a pair of jaws pivotally mounted on said carrier, a plunger mounted in said carrier and movable toward and from the work, said plunger having means thereon engageable with the jaws to move them into engagement with the work.

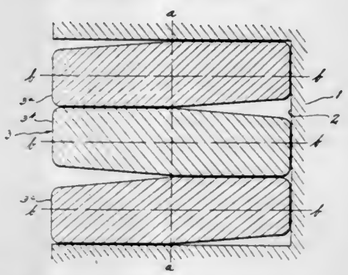
2,160,379

PISTON RING

James J. Carroll, Detroit, Mich.

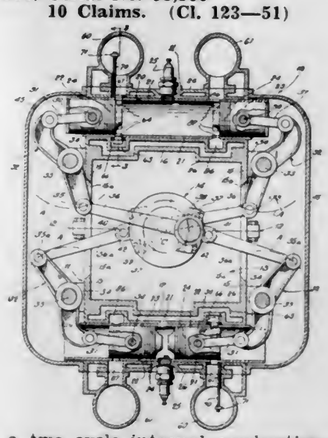
Application March 23, 1937, Serial No. 132,590

1 Claim. (Cl. 309—45)



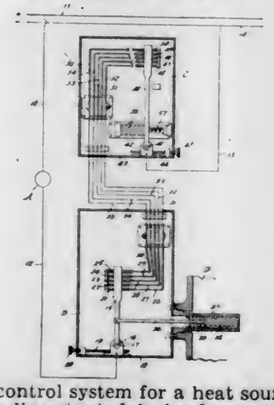
A piston ring assembly comprising a plurality of ring elements, each element having its upper face and its lower face each including a portion forming an annular flat surface which is parallel to the plane of the ring and adapted to constitute a bearing surface, one of said surfaces being contiguous with one peripheral wall and the other surface contiguous with the other peripheral wall, and the remaining portion of both the upper face and the lower face of the element forms a surface which is not parallel with the plane of the ring in order to provide a cross-sectional shape which tapers from the center region towards the peripheral walls wherein adjacent elements contact with each other through the intermediary of the annular flat surface which is parallel to the plane of the ring and wherein the distance between the upper and lower annular flat surfaces which are parallel to the plane of the ring is so chosen that the plurality of rings extend for the full distance between the upper and lower walls of the accommodating piston groove with which the assembly is adapted to be associated.

2,160,380
INTERNAL COMBUSTION ENGINE
Herbert C. Colburn, South Pasadena, Calif., assignor to Colburn Engineering Corporation, Santa Monica, Calif., a corporation of Colorado
Original application August 7, 1935, Serial No. 35,124, now Patent No. 2,112,829 dated April 5, 1938. Divided and this application August 11, 1936, Serial No. 95,366
10 Claims. (Cl. 123—51)



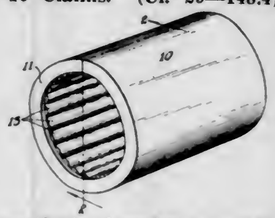
1. In a two cycle internal combustion engine embodying a cylinder having piston controlled intake and exhaust ports, a charge intake line connected to said intake port, and a throttle valve in said intake line: a variable opening shutter device located at the discharge end of the intake line immediately adjacent the intake port and adapted to vary the rate of flow of charge from the discharge end of the intake line into the cylinder, and automatic means for progressively opening and closing said shutter device in accordance with increase and decrease in engine speed throughout substantially the entire speed range of the engine.

2,160,381
HEAT CONTROL SYSTEM
Virginius M. Cruikshank, Sunbury, Pa.
Application December 21, 1935, Serial No. 55,544
2 Claims. (Cl. 236—37)



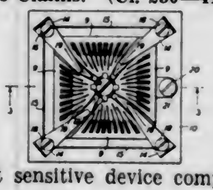
2. In a control system for a heat source having an electrically actuated device for controlling the operation thereof, a circuit including said device and a pair of thermo-sensitive circuit opening and closing members arranged in series in said circuit and respectively responsive to the heat generated by the heat source and the heat of an enclosure heated by said source, one of said members comprising a plurality of normally opened switches and a thermo-sensitive element responsive to predetermined temperature drops of said heat of said enclosure to successively close the switches respectively and to retain in closed condition the switches previously closed, a second circuit control member comprising a plurality of switches normally closed and a thermo-sensitive element responsive to predetermined successive temperature increases in the heat generated by said heating unit to successively open the switches respectively of the second circuit control member and to retain in opened condition the switches previously opened, and means connecting said switches of the first circuit control member in the order in which they are successively closed to the switches of the second circuit control member in the order in which they are successively opened whereby as the temperature of the heating unit decreases the switches in the second circuit control member will successively close in the inverse order of opening while upon increase in heat of said enclosure the switches in the first circuit control member will successively open in the inverse order of closing to maintain a substantially uniform temperature in the enclosure heated by said source.

2,160,382
METHOD OF MAKING ROLLER BEARINGS
Lewis R. Heim, Mount Dora, Fla.
Application August 1, 1936, Serial No. 93,774
10 Claims. (Cl. 29—148.4)



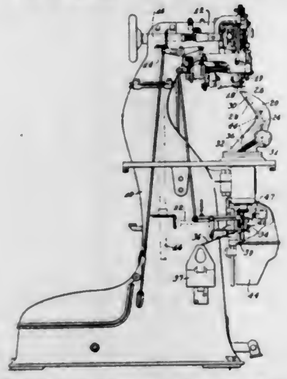
1. The method of making a self-sustaining unitary roller bearing having an outer roll race only which includes the steps of forming a one-piece cylindrical roll race, forming a plurality of rolls, expanding said race radially, inserting said rolls radially in said race in unseparated relationship, and contracting said race to effect an interlocking relationship between said rolls.

2,160,383
LIGHT SENSITIVE ELECTRIC DEVICE AND CIRCUIT THEREFOR
Walter F. Kannenberg, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1936, Serial No. 118,299
8 Claims. (Cl. 250—41.5)



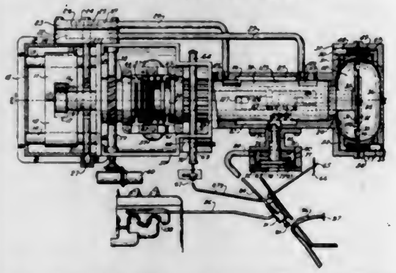
1. A light sensitive device comprising a base conductor, a layer of light sensitive semi-conducting material on said base conductor, a plurality of electrodes overlying and in contact with separated portions of the surface of said semi-conducting material, one of said electrodes being permeable to light, and means to exclude light from the surface overlaid by another of said electrodes.

2,160,384
SEWING MACHINE
Clyde L. Knott, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 7, 1937, Serial No. 119,444
13 Claims. (Cl. 112—36)



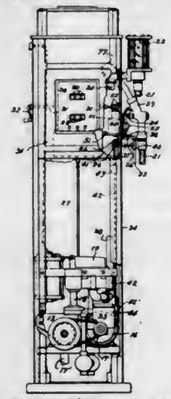
1. A McKay type shoe sewing machine having, in combination, stitch forming devices including a straight hook needle, a rotatable shoe supporting horn having a needle receiving opening at its tip, and a thread gripping member arranged for movement in the horn towards and from the needle opening to impart a stitch setting tension to the thread.

2,160,385
POWER TRANSMITTING SYSTEM
George Kraemer and Lionel Bergeron, Jamaica, N. Y.
Application March 17, 1936, Serial No. 69,340
4 Claims. (Cl. 74—336.5)



1. An auto-selective transmission control for a gear transmission of the class comprising driving and driven rotary members, a suitable train of gears adapted to be variably coupled to effect changes of operating ratio between said driving and driven rotary members; means operable to couple said gears progressively or retrogressively for the stated purpose; said transmission control being characterized by a pair of encased suction fluid operable pistons, connections by which said pistons are adapted to actuate said coupling means, a system of ducts connected with said piston casings, a source of suction, means connected to said source of suction and to said ducts, a governor, governor controlled valve means for effecting automatic control of movements in said system for actuation of said pistons by exclusively suction-initiated impulses in response to the speed of said driven member, to determine changes in the gear coupling independently of manual intervention within said system, a further piston device, a locking means operated thereby to lock a governor controlled element of said gear coupling selecting means against operation by the governor during gear coupling operations, and manually operable means to set said transmission control to determine through the transmission gears the direction of movement of said driven member.

2,160,386
LIQUID DISPENSING APPARATUS
Joseph A. Logan, Springfield, and Warren H. De Lancey, West Springfield, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application September 5, 1935, Serial No. 39,222
Renewed September 3, 1937
14 Claims. (Cl. 221—95)

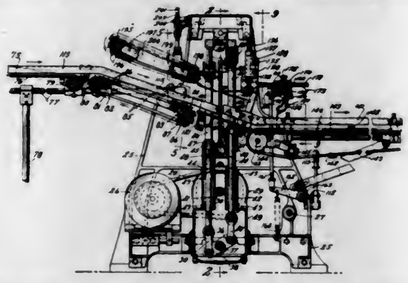


1. In a liquid dispensing apparatus, a conduit terminating with a flexible hose having a nozzle, a meter interposed in said conduit, means for forcing liquid through said conduit and meter, a register driven by the meter and having resetting mechanism, an operating member for said mechanism movable in cycles and effective in one cycle of movement to reset the register, a support for the nozzle when not in use, means engageable by the nozzle in the act of placing the latter on its support and effective whether or not the register has been reset to automatically lock the nozzle to the support, and means dependent on an operation of said operating member through one complete cycle to release said locking means.

2,160,387
BREAD SLICING MACHINE
Norman W. Lyon, Springfield, Mass., assignor to National Bread Wrapping Machine Co., Springfield, Mass., a corporation of Massachusetts
Application October 12, 1936, Serial No. 105,158
8 Claims. (Cl. 146—153)

1. A bread slicing machine comprising slicing knives, endless conveyor means for feeding an

abutting series of loaves to the knives, a delivery conveyor removing the sliced loaves in spaced relation from the knives, a stop plate, a cam operable to introduce the plate into the path of the loaves and to release said plate for motion out of said path in timed relation to the motion of the delivery conveyor, spring means for moving said plate out of the path of the loaves when such motion is permitted by the cam, abutting mem-



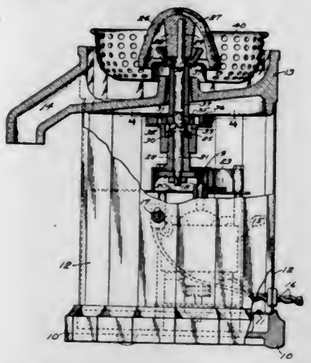
bers engageable by the motion of the plate by the spring if no loaf pressure is exerted against the plate to prevent the motion of the plate out of the loaf path, said members being positioned to be moved out of abutting relation by loaf pressure against the plate prior to the release of the plate by the cam, and a friction drive for said endless conveyor means adapted to slip when a complete abutting series of loaves is restrained by said plate.

2,160,388

FRUIT JUICE EXTRACTING AND STRAINING APPLIANCE

Shirley P. Morse, East Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland

Application March 5, 1936, Serial No. 67,246
18 Claims. (Cl. 146—3)



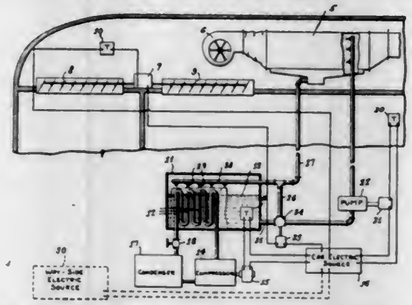
1. In combination with a rotatable fruit reamer, an associated strainer cup disposed to catch substances extracted from the fruit by said reamer, a drive shaft for rotating said extractor and extending downwardly therefrom, a cam rotatively fixed on said drive shaft, a hollow shaft for transmitting oscillatory movement to said strainer cup extending downwardly therefrom and having a lower end surrounding said drive shaft, engageable means carried by said hollow shaft near its said lower end, and an oscillator arranged to be operated by said cam and having an aperture occupied thereby, said oscillator operatively engaging said means to cause oscillation of said hollow shaft thereby to oscillate the strainer cup.

2,160,389

AIR CONDITIONING SYSTEM

Robert T. Palmer, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.

Application January 12, 1938, Serial No. 184,614
8 Claims. (Cl. 62—117)



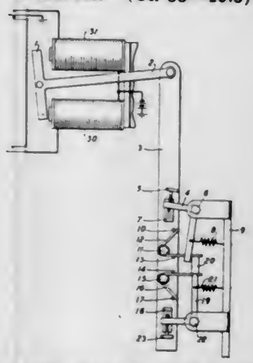
1. The method in air conditioning which comprises cooling outdoor air in an evaporative cooling cycle at all wet bulb temperatures of the outdoor air below a predetermined point, making ice during the evaporative cooling cycle, and removing heat from the air with the ice when the wet bulb temperature of the outdoor air is above said predetermined point.

2,160,390

TWO-WAY OPERATING MECHANISM FOR SHUTTERS

Harry Pfannenstiehl, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 24, 1937, Serial No. 144,507
3 Claims. (Cl. 88—19.3)



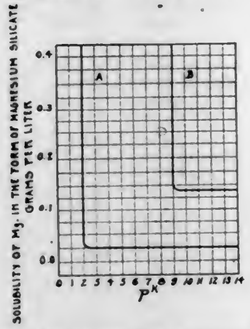
1. In a trigger device, a reciprocating bar, operating fingers and energy storing means mounted on said bar, an operating member responsive to and capable of actuation by the stored energy, and a pair of pivoted latch members normally blocking motion of said operating member in the direction toward which said operating member is urged by said energy storing means, said tripping fingers cooperating with said latch members to permit effective motion of said operating member.

2,160,391

BLEACHING PROCESS AND COMPOSITION

Joseph S. Reichert, Wilbie S. Hinegardner, and Howard L. Potter, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 24, 1936, Serial No. 65,326
11 Claims. (Cl. 8—111)



1. A process for preparing solutions of hydrogen peroxide containing large amounts of dissolved magnesium silicate which comprises the steps of adding a soluble magnesium compound to a solution of hydrogen peroxide, adjusting the pH of the solution to 2.5 or below, adding a soluble silicate thereto, and adjusting the pH so that said solution is alkaline in reaction.

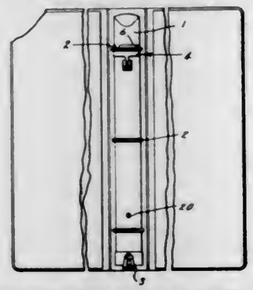
9. As a new composition of matter a clear solution of hydrogen peroxide containing substantially no undissolved stabilizing agents, said solution having a volume concentration from 0.25 volume to 10 volume, having a pH within the range 9 to 14, and containing dissolved therein magnesium silicate in amounts equivalent to from 0.025 gram magnesium as magnesium silicate to 0.14 gram of magnesium as magnesium silicate, both of these amounts being per liter of solution.

2,160,392

RING BINDER PENCIL CLIP

Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts

Application March 3, 1938, Serial No. 193,746
7 Claims. (Cl. 129—1)



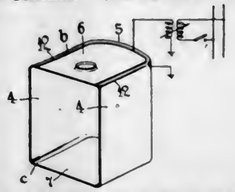
5. A pencil clip for a ring binder comprising a single piece of sheet metal having bent-up ears to embrace a pencil and sidewise extending ears for mounting the clip between one pair of ring halves in a binder, openings one in each side ear for engagement with an adjacent ring half of a binder, said openings being spaced for their outer edges to hug the outer edges of the ring halves and make a tight fit and at least one of said openings being provided with an entrance slot for assembly of the clip with a binder substantially as described.

2,160,393

PRESSURE VESSEL OF THE BOILER TYPE AND METHOD OF PRODUCING SAME

George M. Trefts, 3rd, East Aurora, N. Y.

Application November 16, 1936, Serial No. 110,975
8 Claims. (Cl. 29—157.4)



1. The method of constructing parts of a pressure vessel of the boiler type consisting in forming an open end chambered casing portion from metal plate, the marginal edge portions of said casing being bent at right angles adjacent said opening to form portions of a closure for said opening, inserting a closure member within the opening defined by opposed marginal edge portions of said angularly bent casing portions, said closure member having marginal edge portions registering with and substantially equal in thickness to the corresponding marginal edge portions of said angularly bent casing portions at the zones of registry therewith, and connecting the marginal edges of said closure members and said casing member by a system of butt welding, the welding operation being performed from above the lines of the joints and while disposed in substantially horizontal attitude.

2,160,394

PURGER ASSEMBLY

Eastman A. Weaver, Winchester, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island

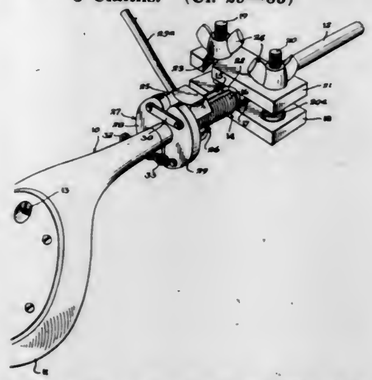
Application October 14, 1937, Serial No. 168,961
11 Claims. (Cl. 62—115)



1. A system of the class described including a purger for exhausting non-condensable gases from the system, said purger comprising a drop tube of small diameter, the system being arranged to supply successive liquid globules to the upper end of said tube to pump and compress bodies of gases, the lower end of the tube providing an outlet opening, a receptacle surrounding the lower end of the tube and containing a body of liquid with its surface exposed to the atmosphere, and a duct having an inlet communicating with the

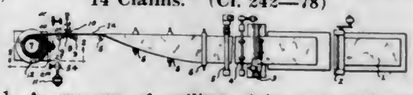
receptacle to receive liquid therefrom, said tube having a smooth surface provided by a heat-resistant, phenol aldehyde composition.

2,160,395
DEVICE FOR REMOVING THE HEADS OF GOLF CLUBS
William L. Wettlaufer, Buffalo, N. Y.
Application July 6, 1937, Serial No. 152,047
3 Claims. (Cl. 29—85)



1. A device for removing the head of a golf club including a barrel which is threaded at one end and which is formed with a longitudinally extending channel for accommodating the shaft of said club, a bar fixed to the other end of said barrel, a second bar which is pivotally mounted on said first mentioned bar and which is movable to one position in which it extends across said channel and to a second position in which it extends alongside said channel, means for moving said second bar toward said first mentioned bar when the former is in said first position, whereby to secure said shaft to said barrel and an element which is screwed upon the threaded end of said barrel and which is adjustable when said shaft is secured in the manner described to force said head off the end of said shaft, said element having a slot which may be aligned with the channel in said barrel.

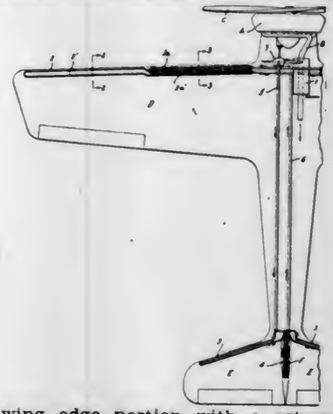
2,160,396
PROCESS AND APPARATUS FOR COILING STRIP MATERIAL
Ralph E. Asbury, Middletown, and Eo Reed, Zanesville, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application March 24, 1937, Serial No. 132,826
14 Claims. (Cl. 242—78)



1. A process of coiling strip material which comprises forming successively relatively slack convolutions one upon another, while at intervals only during the coiling operation applying a restraining force to the material being coiled so as to tighten said slack convolutions.

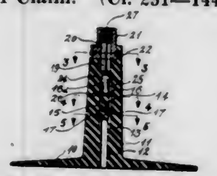
2,160,397
DEFROSTER FOR AIRCRAFT
Frederick G. Brammer, North Olmstead, Ohio
Application October 5, 1936, Serial No. 104,044
2 Claims. (Cl. 244—134)

1. In an aircraft having an internal combustion engine, a propeller driven by the engine and a wing having a portion aft of the propeller and extending therebeyond, means for heating the leading edge portion of said wing by liquid heated from said engine during its operation and comprising heat accumulating means arranged to contain liquid and associated with said engine to heat its contents by the engine products of combustion, heat dissipating means associated with said wing and comprising a pair of tubular conductors each having a stretch leading along



said wing edge portion with a return stretch alongside its leading stretch, and means interconnecting said conductors with said heat accumulating means to provide circulation of the heated liquid through said conductors in parallel relation, the stretches of one of said conductors extending substantially entirely along said wing edge, and those of the other conductor extending substantially only through the propeller slip stream.

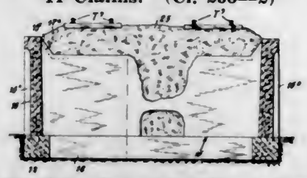
2,160,398
VALVE STEM
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Original application March 26, 1934, Serial No. 717,327, now Patent No. 2,094,264, dated September 28, 1937. Divided and this application March 10, 1937, Serial No. 130,051
1 Claim. (Cl. 251—144)



A combined valve and valve stem comprising a molded rubber stem adapted to be connected to a tire tube, said stem being provided with a bore extending inwardly from the outer end of the stem toward its inner end and with a bore extending from the inner end of the stem toward its outer end, a rubber portion integrally molded in said stem between said bores and extending into said first named bore and of less diameter than said first named bore and provided at its free end with a transverse slot, arcuate slots formed in said stem adjacent said portion and connecting said bores, means integral with the stem intermediate the ends of said first named bore forming a restricted opening and a valve seat, and a conical valve having a pin extending

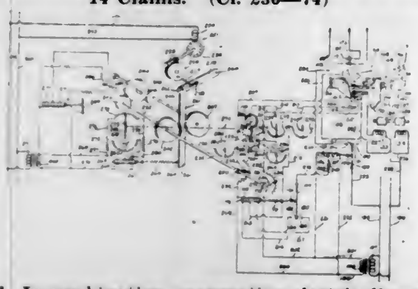
through said opening toward the outer end of the stem and an inwardly extending projection engaging the transverse slot in the end of said portion whereby said valve is normally held seated by said portion against said valve seat to seal the opening.

2,160,399
SUPPORTING STRUCTURE FOR ELEVATED RAILWAY TRACKS AND METHOD OF ELEVATING THE TRACKS
Howard E. Culbertson, Cleveland Heights, Ohio
Application July 3, 1937, Serial No. 151,894
11 Claims. (Cl. 238—2)



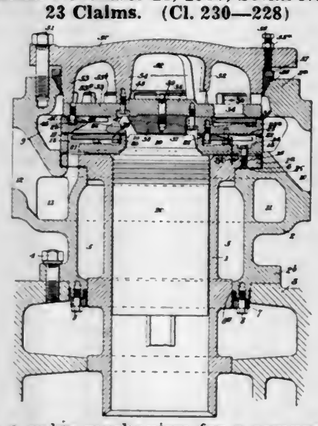
1. A structure for supporting railway tracks during elevating thereof and providing a retaining means for fill material after the tracks have been elevated, comprising a series of piers arranged at intervals lengthwise of the tracks and extending across the right-of-way, and apron walls constructed along the right-of-way between the ends of the piers and forming with the latter a series of box structures adapted to receive fill material.

2,160,400
REMOTE CONTROL SYSTEM
Lewis L. Cunningham, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 27, 1933, Serial No. 673,236
14 Claims. (Cl. 236—74)



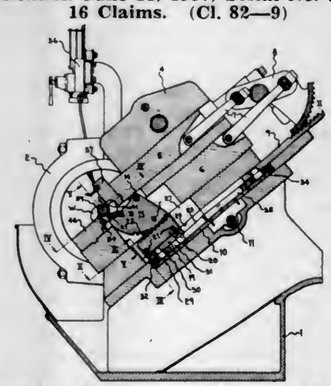
1. In combination, cooperating electrically controlled means, circuit connections for normally equally energizing said means, a pair of stationary contacts, movable contact means engageable with said stationary contacts and controlled by said electrically controlled means, control resistance means electrically associated with the electrically controlled means, a movable member for operating said control resistance means to unequally energize the electrically controlled means whereby the movable contact means is moved into engagement with one of said stationary contacts, electrical connections completed by the engagement of said movable contact means with said one of the stationary contacts for further unequally energizing the electrically controlled means, a reversible motor, energizing circuits therefor controlled by said stationary contacts and the movable contact means, balancing resistance means electrically associated with the electrically controlled means and operated by the reversible motor, when energized, to again equalize the energization of said electrically controlled means whereby the movable contact means is moved out of engagement with said one of the stationary contacts, and an instrumentality positioned by the reversible motor.

2,160,401
VALVE MECHANISM FOR COMPRESSORS
Robert C. Engelman, Bradford, Pa., assignor, by mesne assignments, to Dresser Manufacturing Company, Bradford, Pa., a corporation of Pennsylvania
Application November 11, 1937, Serial No. 173,957
23 Claims. (Cl. 230—228)



1. In a valve mechanism for a compressor, the combination with a cylinder and piston of superimposed valve seat members, inlet and discharge valves each provided with a circular series of radially disposed ports, separately formed radially disposed strip valves normally closing said ports, each of said valve seat members being provided with separate spacing and positioning means of less thickness than the valve strips having recesses for engaging the valve strips at one end, and a keeper means for directly engaging all of the separate strip valves of each seat at one end of each strip and clamping them between said keeper means and the seat member, in relation to the ports of said seat as determined by the said positioning means.

2,160,402
CRANKSHAFT LATHE
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application June 14, 1937, Serial No. 148,099
16 Claims. (Cl. 82—9)



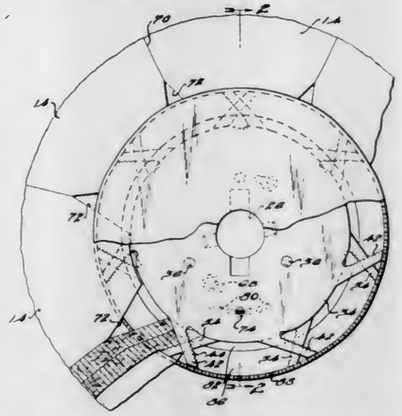
1. In a tool feeding means for a lathe, a hous-

ing, tool bars slidable in said tool carrying unit, tools on said tool bars, cam means to produce oppositely directed motion of said bars, a tool holder pivotally mounted on said tool carrying unit, tools on said tool holder, cam means for swinging said tool holder, and means for operating said cam means.

2,160,403
BUFFING WHEEL AND METHOD OF SALVAGING BUFFING WHEELS

Harry L. Hicks, Pontiac, Mich., assignor of twenty-six per cent to Harold L. Hicks and twenty-six per cent to Hubert L. Hicks, both of Pontiac, Mich.

Application July 26, 1938, Serial No. 221,383
6 Claims. (Cl. 51—193)



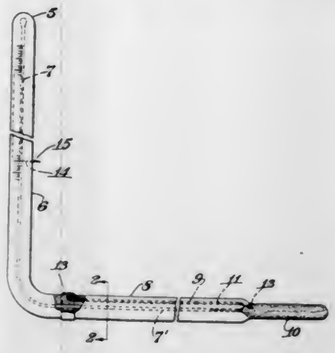
1. A buffing wheel construction comprising a plurality of fabric discs folded into segments of a circle and having outer folds facing in one direction and an intermediate fold facing in the opposite direction, said segments being arranged around the periphery of the wheel, and mounting means for clamping said segments in position, said last named means including spaced apart plate members having outwardly inclined fingers formed thereon received within said outer folds, means fixing said plate members relative to each other, other finger members disposed within the space between said first named fingers and movably mounted therein received within said intermediate fold, said fingers being movable relative to each other whereby they clamp said segments in position, and cover plate members disposed on opposite sides of said wheel having inwardly directed teeth formed thereon which engage said segments to hold said segments in position.

2,160,404
ELECTRIC CONTACT THERMOMETER

Edward N. Hurlburt, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application August 25, 1937, Serial No. 160,847
1 Claim. (Cl. 200—141)

An electric contact thermometer comprising a glass bulb, a glass connecting-tube section having one end fused to said bulb, said section having two parallel bores extending longitudinally therethrough, the first of said bores being sealed at both ends of said tube section and the second of said bores communicating with the interior of said bulb, a graduated indicating glass tube section having a capillary bore extending longitudinally therethrough, one end of said indicating tube section being sealed and the other end thereof being fused to the free end of said connecting tube section with said second bore thereof communicating with the bore of the indicating tube section, an electrically conducting wire extending through said first bore of said connecting tube section and having its end portions sealed into the sealed ends of said bore, said wire being of smaller diameter than that of said first bore

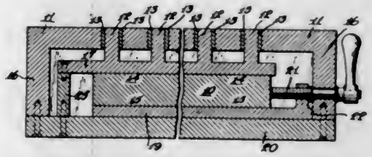


to press freely therethrough, one end of said wire projecting into the interior of said bulb, the other end of said wire projecting externally of said section, an electrical contact approximately at the junction of said sections, said contact being connected to the externally projecting end of said wire, a second contact sealed into the glass of the indicating tube section and projecting into the bore thereof, and a thermo-sensitive electrically conducting liquid in said bulb and the second bore of said connecting tube section as well as in a portion of the bore of the indicating tube section.

2,160,405
MAGNETIC WORK HOLDER

Frank Rhodeback Mallalieu, Oxford, Pa.

Application April 8, 1938, Serial No. 200,862
16 Claims. (Cl. 175—367)



1. In a magnetic work holder, a first magnetically conducting member exposed to contact with the work, a plurality of second magnetically conducting members magnetically insulated from the first magnetically conducting member and likewise exposed to contact with the work, a permanent magnet having two poles, a magnetic conductor connecting the first magnetically conducting member to one of the magnet poles, a magnetic conductor connecting all of said second magnetically conducting members to the other magnet pole and means for interrupting the connection between a magnet pole and the corresponding magnetically conducting member or members.

2,160,406
PRODUCT FOR INHIBITING THE ATTACK ON METALS BY ACIDS OR SALTS AND ITS APPLICATIONS

Jacques Edouard Julien Georges Mascré, Premery, France, assignor to Etablissements Lambiotte Freres Premery (Nievre), France, a corporation of France

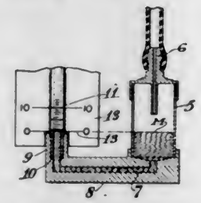
No Drawing. Application November 17, 1936, Serial No. 111,336. In France December 17, 1935
6 Claims. (Cl. 148—8)

1. A metal treating bath comprising a diluted mineral acid and as an inhibitor product preventing the attack of the metal itself a low proportion of crude wood spirit oils arising from the carbonization of wood.

2,160,407
MANOMETER UNIT FOR A SPHYGMOMANOMETER

Richard F. Roda, Pittsford, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application December 15, 1937, Serial No. 179,975
1 Claim. (Cl. 73—31)



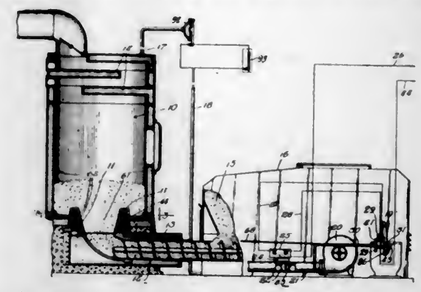
In a device of the class described, a reservoir having a connection nipple at its top, a fixture having a passage therethrough communicating with the lower part of said reservoir, a collar connected to said fixture, said collar having therein an upwardly extending cylindrical cavity of substantially uniform internal diameter throughout approximately its entire length, said cavity communicating with said passage, a removable indicating tube having its lower end portion substantially occupying all of said cavity, a resilient washer interposed between the end of said tube and said fixture to afford a mercury-tight joint therebetween, and mercury in said reservoir, said fixture and the lower portion of said tube, the portion of said tube which projects into said collar having such displacement of mercury that the normal level of said mercury is visible through said tube, the volume of said collar being such as to contain the mercury flowing thereto as a result of the new mercury level in the device arising from the removal of the indicating tube from the collar.

2,160,408
AIR CONTROL FOR FURNACES

Earle W. Ballentine, Chicago, Ill., assignor, by mesne assignments, to Fred E. Hummel, permanent trustee of Russell Electric Company, Chicago, Ill., a corporation of Illinois

Application April 15, 1936, Serial No. 74,581
9 Claims. (Cl. 110—45)

1. Apparatus of the character described, including: a furnace; a substantially constant speed centrifugal blower; a duct for delivering the air from said blower to said furnace; a valve in said duct; means for varying the position of said valve by and in accordance with the pressure in said duct between said valve and said blower; and means for varying the position of said valve

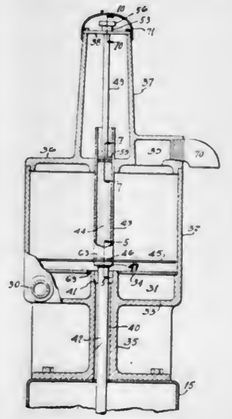


by and in accordance with the rate of fuel feed to said furnace.

2,160,409
CONTROL FOR AIR FLOW TO UNDERFEED STOKERS

Frank M. Bentall, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.

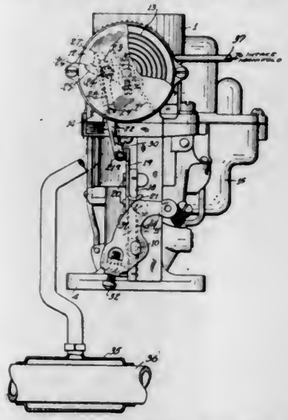
Application August 12, 1935, Serial No. 35,895
4 Claims. (Cl. 137—153)



1. A regulator for controlling the flow of air consisting of a cylinder having a vertical axis and having an air cleaning compartment at the lower end thereof to which air may be admitted tangentially, a piston rod slidably extending through said cylinder, said piston rod having a sheet metal piston loosely mounted on said rod and spaced from said cylinder, the upper end of said rod being tubular in form and provided with a liquid, a stationary piston mounted in said tube having a check valve therein adapted to offer unequal resistance to the passage of liquid around said last mentioned piston.

4. In a device of the class described a pneumatic cylinder characterized by having a piston provided with a piston rod extending therethrough one end of which is connected to a regulating damper and the other end of which is provided with a dash pot including a stationary piston provided with a check valve, means for admitting air to the underside of said first mentioned piston and means for permitting the escape of air from the upperside of said piston.

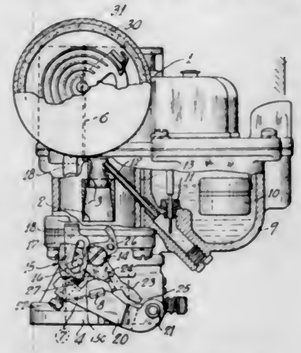
2,160,410
CARBURETOR DEVICE
August H. Blattner, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application June 2, 1936, Serial No. 83,066
5 Claims. (Cl. 261—52)



2. In a carburetor, choke and throttle valves, pivoted control levers for said valves, interconnection linkage having a pin and slot lost motion connection with the choke lever and an abutment structure adjacent said throttle lever for engagement thereby when said throttle valve is opened to move said linkage, said choke valve being capable of opening and closing movements independently of said linkage when said throttle valve is opened, said choke lever including a lateral lip spaced outwardly beyond the pin and slot connection, and said interconnecting linkage having an abutment disposed to underlie said lateral lip when said choke valve is substantially fully opened, and a spring device for causing said linkage to interlock with said choke lever when both of said valves are substantially fully open to prevent closing of said choke valve.

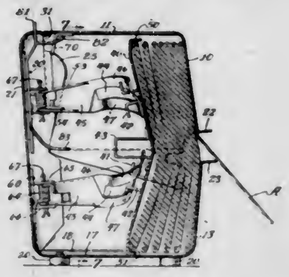
2,160,411
CARBURETOR STRUCTURE
August H. Blattner, Pine Lawn, and Fred A. Kommer, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application July 2, 1936, Serial No. 88,566
3 Claims. (Cl. 261—52)

2. In a carburetor, choke and throttle valves having pivotal shafts, a thermostatic control for said choke valve, arms on said shafts, a cam-like member pivoted to the carburetor immediately adjacent said throttle shaft, and a link member connecting said cam-like member and said choke arm, one of said members having a pintle thereon and the other having a slot receiving said pintle whereby said link member is permitted substantial longitudinal lost motion relative to said cam-like member, said cam-like member having a plurality of portions at different distances from the pivotal center thereof, and the arm on said throttle valve shaft having an abutment for selectively engaging said portions when said choke valve is not fully open to variably prevent full closing of said throttle valve, said throttle arm and said cam-like member having other abutments cooperating when said throttle is substantially opened, to take up the lost motion between said link member and said cam-like member and open said choke valve and also co-



operating when both of said valves are substantially fully open to lock said choke valve.

2,160,412
DISPENSER FOR SHEETS
Frank L. Broeren, Neenah, and Archie S. Krueger, Green Bay, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application February 18, 1938, Serial No. 191,344
10 Claims. (Cl. 312—62)

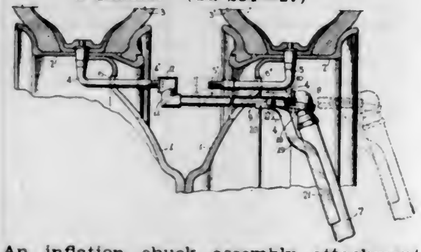


1. A dispenser for folded sheets, comprising a container for receiving a stack of sheets, said container comprising a bottom wall, side walls, a front wall and a rear wall, a cover hinged to said container, a lug member provided on said cover, said cover terminating short of the upper edge of the front wall when in closed position thereby providing an elongated slot for withdrawal of the sheets, a follower plate hinged to the rear wall and adapted to bear against the stack of sheets for urging the stack toward said slot, said follower plate being provided with a retaining member on its rear face, a gravity actuated plate member pivoted on the rear wall of the receptacle, said plate member being provided with a handle for manually oscillating same, a slot in said container for accommodating the free end of said handle, an upper hook member on said plate member for engaging the lug member on said cover for releasably locking the cover in closed position, a lower hook portion integral with said plate member for engaging the retaining member on the rear face of the follower plate for retaining the same in retracted position, the lug on the cover contacting the said upper hook member for automatically releasing the follower plate upon closing the said cover.

2,160,413
POLYIODO DERIVATIVES OF ACYLAMINO ACIDS AND THEIR SALTS AND A METHOD OF MAKING THE SAME
Max Dohrn, Berlin-Charlottenburg, and Paul Diedrich, Finkenkrug, Germany, assignors to Schering Aktiengesellchaft, a corporation of Germany
No Drawing. Application January 15, 1937, Serial No. 120,752. In Germany April 16, 1935
12 Claims. (Cl. 260—518)

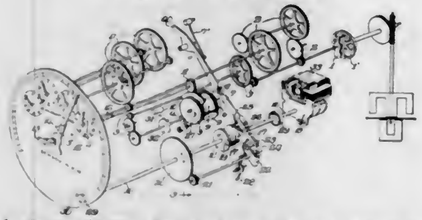
1. In a process for the manufacture of polyiodo derivatives of a member of the group consisting of acylamino acids and their neutralization products, the step which comprises reacting a member of the group consisting of di- and tri-iodo aromatic acyl halogenides with an amino acid in the presence of a neutralizing agent.

2,160,414
TIRE-VALVE CHUCK
Carolus L. Eksergian and Paul E. Baker, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 9, 1937, Serial No. 135,941
2 Claims. (Cl. 284—17)



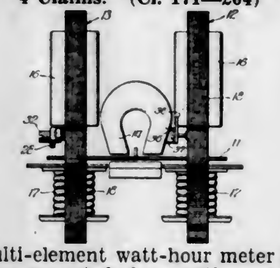
1. An inflation chuck assembly attachment comprising a hollow stem, said stem constructed at one end thereof to be detachably inserted in the usual valve head carried on the free end of an inflating hose or standard tire gauge, means for maintaining proper engagement of the end of said stem with said valve head, an elongated handle secured to said stem and arranged to receive said inflation hose or tire gauge therealong, whereby the hose or tire gauge and handle together may be conveniently grasped by the hand of the operator, a plural outlet chuck head secured to the opposite end of said stem, said chuck head having opposed openings in its faces to receive the ends of pneumatic tire valve sleeves.

2,160,415
MAXIMUM-DEMAND METER
Albert L. Emens, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application February 6, 1937, Serial No. 124,363
5 Claims. (Cl. 171—34)



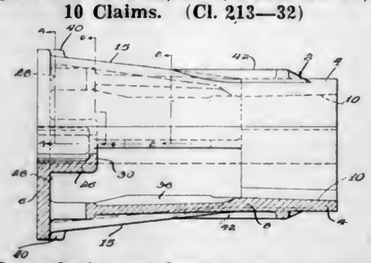
1. A maximum demand register for watt-hour meters including a maximum demand indicator, a pusher element therefor, means for moving said pusher element forwardly including a differential mechanism having a planetary gear in geared relationship to said pusher element and two side gears, means for normally restraining one of said side gears and for releasing it periodically to permit said pusher element to move backwards, means for biasing said pusher element in the backward direction, and a member positioned to be struck by a rotating portion of said planetary gear to stop both its planetary movement and its rotative movement whereby said pusher element is stopped at the zero position and backlash effects are reduced.

2,160,416
BALANCING PLATE FOR WATT-HOUR METERS
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application February 16, 1938, Serial No. 190,723
4 Claims. (Cl. 171—264)



1. A multi-element watt-hour meter including disc means mounted for continuous rotation, damping means for retarding the rotation of the disc means, and a plurality of driving units adapted to drive the disc means, at least one of said units including an electromagnetic coil, a laminated structure including a core extending through said coil, a yoke magnetically connected with the core at one end for causing flux to pass through the disc means and separated from the other end of the core by a gap, and a balancing device including a laminated magnetic plate secured to the yoke and a magnetic screw carried by the plate and adjustable to approach the core.

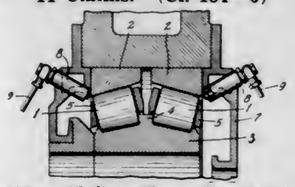
2,160,417
DRAFT-GEAR HOUSING
William C. Hedgcock, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 24, 1936, Serial No. 86,901
10 Claims. (Cl. 213—32)



1. In a draft gear housing, the combination of a base and an integrally formed top and bottom and lateral wall structure, said housing having a friction portion adjacent the open end with tapering internal friction faces formed

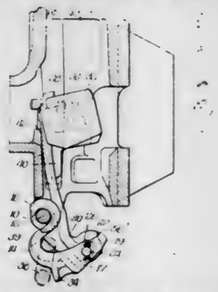
around substantially the entire inner area of the open end of said housing, said lateral walls having convoluted portions tapering gradually from adjacent said base to said friction portion in buttress-like formations merging into said friction portion to provide maximum compressive strength in said structure, said entire wall structure being free of sharp changes in section throughout the length thereof.

2,160,418
LUBRICATING SYSTEM FOR ROLLER BEARINGS
Oscar J. Horger, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application April 29, 1937, Serial No. 139,683
11 Claims. (Cl. 184—6)



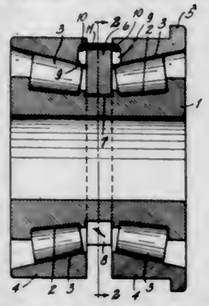
1. A system of lubricating roller bearings which comprises a roller bearing, a housing therefor, a spray nozzle located and arranged to deliver lubricant in a fine mist between the bearing rollers, a pump in communication with said nozzle and capable of delivering lubricant to said nozzle under a pressure of the order of four hundred pounds per square inch and means for actuating said pump.

2,160,419
COUPLER
Edmund P. Kinne and Frank H. Kayler, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 10, 1937, Serial No. 147,454
14 Claims. (Cl. 213—166)



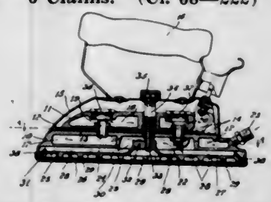
1. In a coupler mechanism the combination of a coupler head, a depending lug integrally formed therewith, a lock operable therein, a lifter having a connection to said lock, a rotor pivotally connected at one end to said lifter, pivotally supported at its opposite end on said lug and having an eye and a shoulder intermediate said ends, cooperating anti-creep means formed on said lifter and said rotor and operative independently of other parts, and an operating rod having a knuckled end received in said eye and engageable with said shoulder, the opposite end of said operating rod being supported from an associated car body, said operating rod being free of support between its connection to said car body and its connection to said rotor.

2,160,420
DOUBLE ROW ROLLER BEARING
William L. Scribner, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application August 11, 1938, Serial No. 224,242
5 Claims. (Cl. 308—214)



1. A double row roller bearing comprising two annular series of rollers, a separate bearing cup for each series of rollers, said cups being disposed with their opposed ends spaced apart, each of said opposed ends having a slot therein stopping short of the outer periphery of the cup, an open-ended spacing washer interposed between said cups and a retaining piece extending across said spacing washer with its ends extending into said slots.

2,160,421
IRON
Julius K. Sebo, Staten Island, N. Y., assignor to American Plush & Velvet Pressboard Co. Inc., New York, N. Y., a corporation of New York
Application July 15, 1938, Serial No. 219,327
6 Claims. (Cl. 68—222)

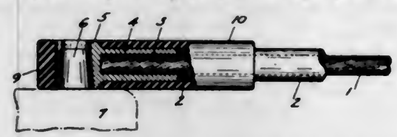


2. An iron including a woven fabric cloth covering only a portion of the bottom portion of the iron, a supporting frame for said cloth countersunk into the bottom of the iron to have the cloth substantially flush with the portion of the bottom over which the cloth does not extend, and means for supplying steam from within the iron to and through said cloth.

2,160,422
BATTERY CONNECTOR
Frank S. Shipman, Rock Island, Ill., assignor of one-half to Raymond Henry, Rock Island, Ill.
Application January 21, 1937, Serial No. 121,479
4 Claims. (Cl. 173—259)

1. A battery connector comprising a ferrule formed of a lead-like metal, said ferrule having a slot therein extending from end to end and the inner surface thereof being tapered to conform to a battery post, a conductor secured to said ferrule, and a cover of rubber-like material covering the junction between the ferrule and the conductor and extending therefrom along the conductor,

said cover also comprising a ring surrounding said ferrule and open at least at one end of the ferrule, said ring being small enough and strong

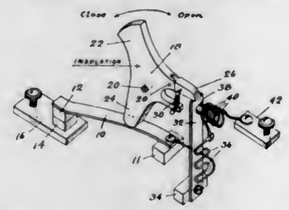


enough to deform the ferrule to a size smaller than the battery post, whereby when said connector is placed on a battery terminal the ferrule is held in tight engagement with said post.

2,160,423
ALLOY
Winston F. Stoody, Wilmington, and John R. Spence, Whittier, Calif., assignors to Stoody Company, Whittier, Calif., a corporation of California
No Drawing. Application January 25, 1937, Serial No. 122,212
18 Claims. (Cl. 219—8)

1. A welding rod composed of an alloy comprising iron between 40 and 50%, substantial amounts of cobalt, chromium, and tungsten aggregating between 40 and 50%, there being also present molybdenum, vanadium, and carbon.

2,160,424
ELECTRIC SWITCH AND TRIPPING MECHANISM THEREFOR
Elmer H. Taylor, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application November 2, 1937, Serial No. 172,412
4 Claims. (Cl. 200—88)



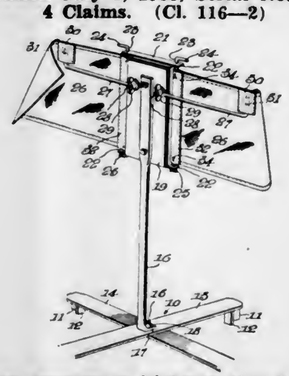
1. In a switch-tripping device, a warpable bimetal latch-holding strip, an electric heater element independent of said strip for heating said bimetal strip to cause it to warp to a latch-releasing position, and electromagnetic means including a solenoid separate from said heating means and strip acting on said bimetal strip to warp it into a latch-release position whereby to effect the automatic tripping of the switch, said heater element being arranged to provide delayed warping of said bimetal strip when said element is traversed by a moderate overload current and said electromagnetic means being arranged to provide instant warping of said bimetal strip when said electromagnetic means is traversed by heavy overload current.

2,160,425
TARGET
Arden A. Thompson, Taunton, Mass., assignor of one-half to Lawrence McElwee, Boston, Mass.
Application April 21, 1938, Serial No. 203,305
10 Claims. (Cl. 273—102)

1. A target comprising a body of cork, a sealing member outside said body of rubber, a binding member of fabric outside said cork and sealing member, and a strip of material at the outside edge of said body.



2,160,426
EMERGENCY HIGHWAY SIGNAL
George E. Archer, South Whitley, Ind.
Application July 1, 1938, Serial No. 217,044
4 Claims. (Cl. 116—2)

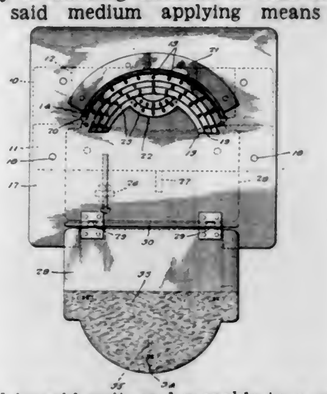


1. In an emergency highway signal, flag supporting means, a flag connected with said flag supporting means to extend laterally therefrom, said flag having a downwardly open pocket near the outer end of its upper portion, a normally retracted arm carried by said flag supporting means and extensible laterally therefrom to hold the flag unfurled, the outer end of said arm being provided with a finger for reception in said pocket when said arm is extended, and means for holding said arm in extended position.

2,160,427
DIE
Frank W. Bowie and Abram S. Lieb, Binghamton, N. Y., assignors to Benjamin W. Freeman, Cincinnati, Ohio
Application February 25, 1937, Serial No. 127,740
20 Claims. (Cl. 101—28)

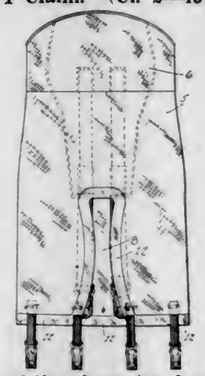
1. A machine die unit for use in a pressure applying machine, comprising a base, cutting means on said base, resiliently mounted marking means associated with said cutting means, and normally positioned with a marking surface thereof in an operative plane advanced with respect to the operative plane of the cutting means, and means

to apply a marking medium to said marking means, said medium applying means being



mounted in said unit, and movable to a position remote from the normal zone of operations of said unit.

2,160,428
CORSET
Anna I. Braissant, Oakland, Calif.
Application January 3, 1938, Serial No. 183,182
1 Claim. (Cl. 2—43)



A garment of the character described adapted to encircle the body and having an upper portion provided with a curved top edge and adapted to overlie the abdomen, said garment having an opening formed in the front thereof and extending a substantial distance from the bottom of the garment toward the top thereof, whereby freedom of the limbs will be permitted, bands secured to the bottom of said garment and adapted to encircle the legs of the wearer when the garment is in use, said garment being slit adjacent its upper portion, means for securing the adjacent edges of said slit, a pair of garters secured to said garment at a point above the upper extremity of said opening and extending when in use to a point below the bottom of said garment, and garters connected to the bottom of said garment and in front thereof.

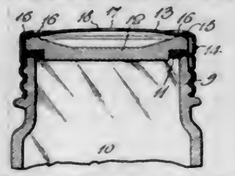
2,160,429
PRESERVING CONTAINER CLOSURE, VENT, AND SEAL
Roman B. Bukolt, Stevens Point, Wis.
Application May 14, 1935, Serial No. 21,450
14 Claims. (Cl. 215—56)

1. A preserving container closure provided with a depression and with a vent hole in the bottom of said depression, a downwardly closing check valve for said vent hole positioned within said depression, and a seal within said depression and cooperable with said check valve in sealing said



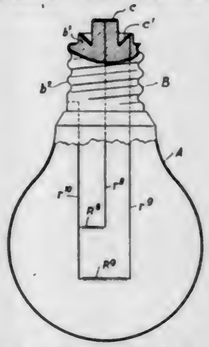
vent hole, said seal consisting of a lower stratum of thermally unchanged powder forming a seat for said check valve, and a thermo-plastic upper stratum covering said lower stratum and fluid-tightly engaging said check valve and said depression.

2,160,430
CONTAINER CLOSURE
Roman B. Bukolt, Stevens Point, Wis.
Application April 10, 1934, Serial No. 719,961
15 Claims. (Cl. 215—97)



11. A container closure comprising a cap member, sealing means mounted in said cap member and a flexible disk member carried by the cap member and selectively springable into either of two positions, in one for engagement with the sealing means for disposing the latter into sealing position and in the other for releasing the sealing means.

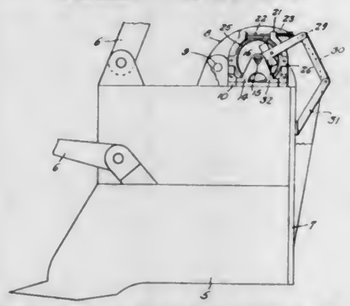
2,160,431
ELECTRIC LAMP CONNECTING DEVICE
Johann Buser, Basel, Switzerland
Original application February 1, 1938, Serial No. 188,126. Divided and this application August 23, 1938, Serial No. 226,392. In Switzerland February 2, 1937
4 Claims. (Cl. 176—26)



1. An electric lamp connecting device comprising a multi-pole connecting lamp cap with at least three poles and a corresponding connecting socket for receiving the same, said cap having a cap body, an outer contact formed on the periphery of said cap body, at least one central contact on the end of said cap body and a funnel-like tapered intermediate contact on the end of said

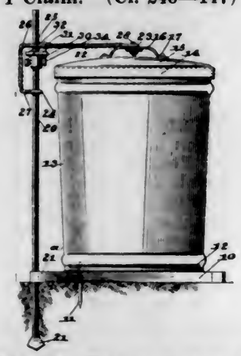
cap body, so constructed as to define an upwardly enlarged conical contact cup having its apex in the axis of said cap body and its generator line located between said outer contact and said central contact.

2,160,432
DIPPER DOOR CONTROL
Voris Davidson, Lyons, Ind., assignor of one-half to George P. Buzan, Lyons, Ind.
Application June 28, 1938, Serial No. 216,359
4 Claims. (Cl. 214—146)



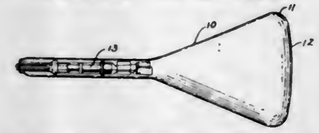
1. In a dipper door control apparatus, a dipper having a door swingably carried thereby, a drum rotatably carried by the dipper, friction means restricting movement of the drum and a linked connection between the drum with the door and including rigid members fixedly attached to the drum and door and a rigid connector pivoted to each of said fixed members.

2,160,433
GARBAGE CAN
Walter S. Griffin, Jr., William A. Harris, and Daniel H. Wallace, Jr., Greenville, S. C.
Application May 18, 1938, Serial No. 208,660
1 Claim. (Cl. 248—147)



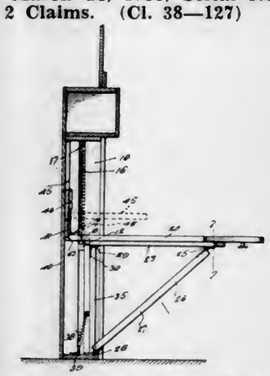
In a garbage can having a removable closure, means retaining the closure in position and comprising a post, an arm having the outer free end thereof pivotally connected to the top of the closure, the other end of the arm having a downwardly bent portion parallel to the post and an inwardly bent portion, said arm and inwardly bent portion having bearings slidably received by the post so that the arm and closure may be revolved around said post, an adjustably mounted disk on the post having an opening at the periphery thereof, a pin projecting downwardly from the arm and adapted to be received by the opening when the closure is in an operative position on the can, said pin when resting on the disk supporting the closure in open position above the can.

2,160,434
TELEVISION APPARATUS
Huston Harris, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application July 18, 1936, Serial No. 91,403
2 Claims. (Cl. 250—141)



1. An electron tube envelope made of glass which includes pressed optical and blown non-optical hollow sections arranged in juxtaposed relation and fused together at the adjoining edges, the optical section being so shaped that the major portion thereof is in a plane remotely disposed with respect to the line of juncture of the respective sections.

2,160,435
CABINET IRONING BOARD
John P. Jensen, Ashland, Wis.
Application March 14, 1938, Serial No. 195,903
2 Claims. (Cl. 38—127)

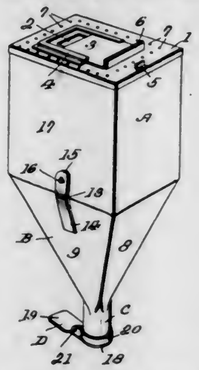


1. In a device of the character described, a pair of parallel vertical members having vertical grooves along their inner sides, slides movable vertically in said grooves, an ironing board pivotally supported adjacent one end thereof between and by said slides, a fixed stop member arranged to be engaged by the pivoted end of said board when the latter is swung to a substantial horizontal position, said board being provided on the under side thereof with a pair of parallel rails, a slide block slidably supported between said rails, a brace for said board hinged at one end to a floor and having the other end thereof hinged to said slide block, a second slide block engaging in said rail and movable therealong, a second brace for said board hinged at one end to the second slide block and having a length substantially equal to the height of the board, and an abutment means to restrain further outward movement of the first slide block when the board reaches a horizontal position.

2,160,436
GRASSHOPPER HOLDER
John H. Jones, Bradford, Pa.
Application March 7, 1938, Serial No. 194,464
2 Claims. (Cl. 43—55)

1. An improved grasshopper holder, comprising

an upper portion having a top wall with an opening therein, a movable cover for said opening, a downwardly extending funnel-shaped lower end terminating in a tubular extending open ended outlet, there being a free passage between



the upper portion and the funnel shaped lower end, a normally closed closure for said outlet, and means for opening said closure, said outlet being of a dimension to permit the passage of only a single grasshopper therethrough at a time.

2,160,437
DIE STOCK AND METHOD OF MAKING CUTTING DIES
Charles Earl Martin, Binghamton, N. Y., assignor to Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York
Application August 21, 1936, Serial No. 97,274
4 Claims. (Cl. 76—107)



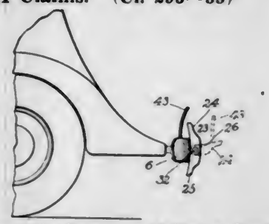
1. The method of making ring cutting dies having clearance which consists in providing a stock strip having a body portion and having a cutting edge portion one face of which is offset from the plane of the adjacent face of the body portion to provide material from which surplus stock may be removed; bending the strip in a plane parallel with the axis of the die so that the offset face is disposed on the inner wall of the die and substantially conforms with the desired template; removing surplus material from the offset face in a plane substantially parallel with the axis of the die to define the cutting edge; and subsequently removing surplus material from the other face of the strip to sharpen the cutting edge.

4. Inherent clearance-providing die-stock, comprising a rolled strip of material of substantially uniform thickness throughout, said strip comprising a longitudinally corrugated body portion and a cutting-edge portion one face of said cutting-edge portion being continuously offset from the plane tangent to the crests of the corrugations on the adjacent face of the body portion to provide material from which surplus stock may be removed along the entire cutting-edge portion in a plane substantially parallel with and offset from said adjacent face of the body portion to thereby provide clearance.

2,160,438
CERAMIC MOLD
George V. McCauley, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application August 4, 1936, Serial No. 94,288
4 Claims. (Cl. 49—65)

1. A ceramic refractory mold composed of a multi-cellular insulating refractory and coated with a layer consisting of silica, alumina and a bond, the alumina being not more than 17% and the bond not more than 2% of the layer.

2,160,439
BUMPER DEVICE
Willard L. Morrison, Lake Forest, Ill.
Application June 21, 1935, Serial No. 27,695
11 Claims. (Cl. 293—55)



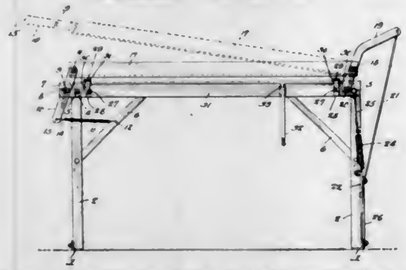
1. A bumper device comprising a horizontally extending bumper element, a vertically extending bumper element, pivotally connected with said horizontally extending bumper element, the horizontally extending bumper element holding said vertically extending bumper element in its blow resisting position when pressure is applied thereto by another vehicle in one direction, said vertically extending bumper element free to move about its pivot when interlocked with a part of another vehicle, so as to become released therefrom.

2,160,440
ELECTRICAL CONNECTOR
Carl O. Pearson and Clinton L. Sherwood, Pontiac, Mich.
Application March 17, 1938, Serial No. 196,514
1 Claim. (Cl. 173—361)



In an electrical contact device for use with a socket member having a slot therein and a keeper member in the bottom of the slot, a plug having a hooked prong adapted for insertion in said slot and to interlock with said keeper member, said prong being pivotally mounted in said plug for swinging movement laterally about an axis parallel with that of said plug into unlocking position, means to limit such movement of said prong comprising a stud on said plug, said prong having a slot therein for receiving said stud, and manipulative means for swinging said prong comprising a push button extending laterally from said plug, and a spring tensioning said push button against manipulation and said prong against such swinging movement.

2,160,441
PORTABLE BENDING BRAKE
Fred Peters, Ogallala, Nebr.
Application May 24, 1937, Serial No. 144,555
4 Claims. (Cl. 153—16)

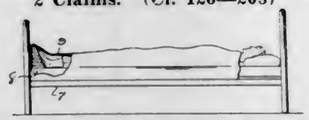


1. In a machine of the class described, a support including a base, a clamp cooperating with the base, mechanism for moving the clamp toward and from the base, said mechanism comprising a vertically-movable pedal fulcrumed on the support, a bender mounted to rock on the support and cooperating with the base to bend a piece of metal whilst the piece of metal is held by the clamp, and a handle hinged to the bender for swinging movement toward and away from the pedal in a direction transverse to the direction in which the pedal operates, the handle being located close enough to the pedal so that an operator can lay hold of the handle whilst his foot is on the pedal.

2,160,442
MOLDED ARTIFICIAL FUEL
Gaston Oscar Frédéric Piou de Saint-Gilles and Jean Guillaume Yves Saget, Paris, France
No Drawing. Application May 4, 1937, Serial No. 140,732. In France May 4, 1936
3 Claims. (Cl. 44—17)

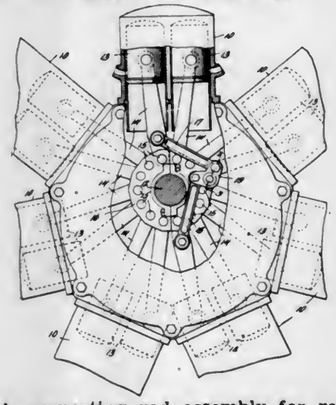
3. A method for the manufacture of an improved fuel, from divided solid natural materials mainly consisting of carbon with hydrocarbons retained therein, which comprises briquetting the starting material with a minor amount of a substance adapted to generate an oxidizing gas at a raised temperature, so as to form molded shapes; placing the molded shapes in an open zone heated at a temperature ranging from about 650 to 800° C., to start a partial combustion for a time of about ten minutes; confining the said zone to cut it off from atmosphere while stopping heating and maintaining the molded shapes in said nonheated confined zone for a time averaging twenty to thirty minutes, after which the molded shapes are ready for use.

2,160,443
BED COVERING SUPPORT
Clemence M. Schadell, Ridgewood, N. J.
Application April 18, 1938, Serial No. 202,795
2 Claims. (Cl. 126—205)



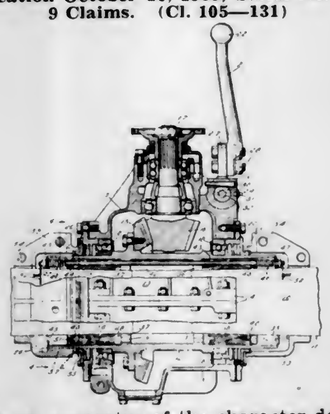
1. A device of the character described, comprising, a bed covering support shell having open ends, a container secured within said shell and provided with apertured doors in the ends thereof and adapted to reenforce said support shell and to house a heating medium for heating the feet of the occupant of a bed, ears formed on said container and extending through said support shell, and a handle connected to said ears for maintaining said container in adjusted position within said shell.

2,160,444
CONNECTING ROD ASSEMBLY FOR RADIAL ENGINES
Julius Schubert, Sunnyside, N. Y.
Application June 8, 1938, Serial No. 212,574
2 Claims. (Cl. 74—580)



1. A connecting rod assembly for radial engines comprising, in combination, a hub carrying a plurality of articulating rods; separate links each pivoted at one end to substantially opposed articulating rods; and a bell-crank pivoted on the hub having arms pivotally connected to the other ends of said links arranged to maintain the hub always in the same relative angular position.

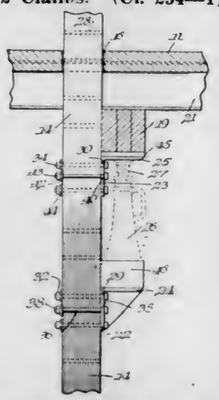
2,160,445
AXLE DRIVE FOR GENERATORS
Clarence W. Spicer, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Application October 16, 1935, Serial No. 45,353
9 Claims. (Cl. 105—131)



1. In an apparatus of the character described, in combination with an axle, a quill surrounding said axle to form therewith an annular space; a plurality of axially spaced resilient bushings

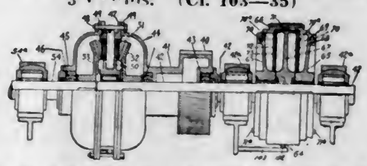
disposed within said space, each bushing comprising a plurality of concentrically arranged members of non-uniform thickness that may be conveniently assembled in cooperative contact with each other to substantially fill those portions of the space allocated to them; and means for forcing said bushings into driving engagement with the corresponding adjacent surface portions of said axle and said quill.

2,160,446
APPARATUS FOR RAISING ROOFS
John A. Stalfort, Baltimore, Md.
Application October 6, 1938, Serial No. 233,695
2 Claims. (Cl. 254—1)



1. Roof raising apparatus comprising an upright column having vertically spaced bolt holes, a pair of substantially identical brackets supported in superposed relation on the same side of the column and movable step-by-step up the column during the roof raising operation, one of said brackets being adapted to support a lifting jack and the other bracket being adapted to support the roof and to be moved upwardly on the column by the jack with the roof, each bracket having a relatively flat column-engaging base and a supporting shelf projecting laterally from the base on the same side of the column as the shelf of the other bracket, the base of each bracket projecting beyond the sides of the column and having two sets of bolt holes, one set located within the confines of the column and registering with the bolt holes in the column, and the other set located exteriorly of the column, and sets of bolts associated with the bolt holes of said brackets and column whereby the brackets may be secured in either stationary or slidable engagement on the column.

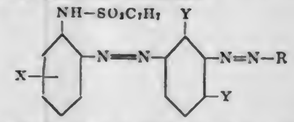
2,160,447
POWER DRIVE
Harry L. Turney, Los Angeles, Calif., assignor to Patents & Royalties Corporation, Los Angeles, Calif., a corporation of California
Application May 2, 1935, Serial No. 19,419
3 Claims. (Cl. 103—35)



1. In a power drive, the combination of a differential gear having a driving element and differential take-off elements driven by the driving element; means driving the driving element; a fluid pump driven by one of the take-off elements; a variable resistance water brake on the other take-off element; and means responsive to pressure of the fluid pumped varying the brake resistance.

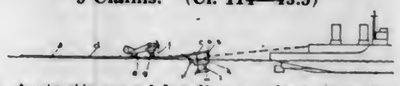
2,160,448
METAL AZO DYESTUFFS AND A PROCESS FOR THEIR MANUFACTURE
Walter Wehrli, Basel, Switzerland, assignor to the firm of Chemical Works formerly Sandoz, Basel, Switzerland
No Drawing. Original application July 22, 1935, Serial No. 32,671. Divided and this application April 2, 1936, Serial No. 72,447. In Germany July 28, 1934
8 Claims. (Cl. 260—145)

1. A process for the manufacture of copper complex compounds, comprising the treatment with copper yielding agents of polyazo dyestuffs of the general formula



wherein X stands for a member of the group consisting of hydrogen, alkyl and sulpho, Y stands for a member of the group consisting of hydroxy and amino, and R stands for the radical deriving from a diazotized compound selected from the class consisting of diazotable aromatic compounds.

2,160,449
APPARATUS FOR THE STARTING AND LANDING OF AIRCRAFT
Rudolf Weichardt and Willy Freistadt, Bremen, and Johannes Hicke, Altona-Rissen, Germany, assignors to Krafft & Weichardt, Bremen, Germany, a corporation of Germany
Application June 5, 1936, Serial No. 83,788
In Germany February 20, 1936
9 Claims. (Cl. 114—43.5)

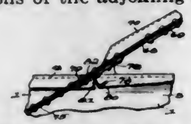


1. A starting and landing surface for aircraft adapted to be towed on the water or carried by a ship, comprising a platform having a central core of tenacious material and top and bottom layers of elastic material running in longitudinal and transverse directions of the platform to form a relatively shallow and buoyant unitary body which is sufficiently rigid in both said directions to resist deformation due to sea and aircraft impacts but sufficiently elastic to accommodate sea swells.

2,160,450
RAILWAY CAR
William E. Wine, Toledo, Ohio
Application August 10, 1936, Serial No. 95,235
23 Claims. (Cl. 105—249)

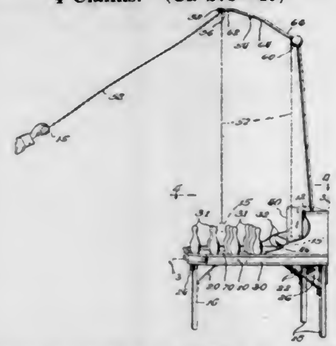
1. A railway hopper car having a center sill, a body bolster having a portion disposed above the center sill, an end wall, and an inclined floor extending downwardly from the end wall toward the center sill, said floor including a plurality of metal sheets extending longitudinally of the car and a beam interposed between the adjoining

side edges of two of said sheets and projecting above the general level of the floor, said beam being rigidly secured to the center sill, the body bolster and the end wall and being provided with oppositely projecting flanges connected to adjacent portions of the adjoining sheets.



12. A railway hopper car including a center sill, a body bolster, a cross bearer, hoppers disposed on opposite sides of the center sill and respectively having door frames defining lading discharge openings, angularly shaped beam members respectively connecting the upper portions of the door frames to the cross bearer and the lower portions of the door frame to the body bolster, and metal floor sheets spaced transversely of the car and respectively secured to said beam members, said sheets and beam members together forming the floor of the car.

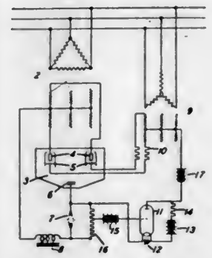
2,160,451
GAME APPARATUS
Isaac H. Athey, Chicago, Ill.
Application August 20, 1938, Serial No. 225,840
4 Claims. (Cl. 273—40)



1. Game apparatus including in combination a platform, a plurality of pins adapted to be set up on said platform, a ball flexibly supported above the platform in such manner that it may be thrown at and is adapted to strike the pins set up on the platform, a baffle located behind the platform and against which the ball is adapted to strike after passing beyond the pins thereon, a ball retaining pocket interposed between the baffle and platform, and a ball support comprising a generally inclined track above the platform and pocket and having a sharp drop over the pocket whereby the ball drops into the pocket and is prevented by the forward edge of the pocket from rebounding against pins remaining on the platform.

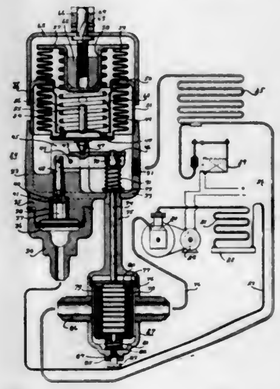
2,160,452
APPARATUS FOR THE OPERATION OF DIRECT CURRENT ELECTRIC ARCS
Paul Baumann, Ludwigshafen - on - the - Rhine, Karl Krapp, Mannheim, Heinrich Schilling, Ludwigshafen-on-the-Rhine, and Robert Stadler, Ziegelhausen, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application February 24, 1933, Serial No. 658,330
In Germany February 25, 1932
5 Claims. (Cl. 171—97)

1. An apparatus for operating direct current electric arcs, which comprises electrodes for such arcs, a rectifier, an alternating current source connected with the said electrodes by way of said rectifier, means for controlling the voltage of said rectifier in automatic dependency on the instantaneously electric arc conditions as to cause stability of the electric arc, said means comprising a grid near the anodes of said rectifier, means for imparting to said grid a voltage being the sum of an alternating voltage component and a direct



voltage component, a thermionic valve connected with the electric arc circuit in such a manner that the electrical conditions of the arc cause the control of the grid voltage of said thermionic valve, a resistance connected with the anode current circuit of the said thermionic valve whereby the anode voltage thereof becomes variable in wide limits, the last mention anode being connected with the grid of said rectifier imparting thereto said direct voltage component.

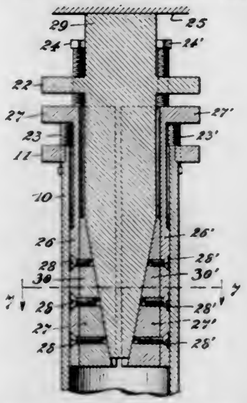
2,160,453
REFRIGERATING APPARATUS
Chalmers B. Boles, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 26, 1934, Serial No. 712,954
3 Claims. (Cl. 236—92)



1. A fluid controlling means including a lever, a valve connected to the lever for controlling the flow of fluid, a pressure responsive means responsive to the pressure of the fluid flowing through the valve and acting upon said lever for affecting the opening and closing of the valve, a spring means positioned upon the opposite side of the lever as said pressure responsive means

and acting upon the lever for urging the valve to closed position, and thermostatic means acting directly upon said spring means and through the medium of said spring means to urge the valve to closed position responsive to a decrease in temperature, adjusting means for said thermostatic means, a second spring means acting upon said pressure responsive means, and adjusting means for said second spring means.

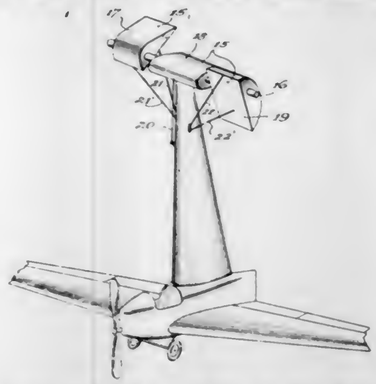
2,160,454
SUPPORTING DEVICE
Philip B. Bucky, Bronxville, N. Y.
Application March 31, 1937, Serial No. 133,951
4 Claims. (Cl. 248—354)



4. A support comprising a shell of constant interior shape and dimension and having an outwardly extended flange, a first segmental member within said shell abutting the interior face thereof and having an outwardly extended flange and a wedge-shaped lower portion with a plane surface, a second segmental member similar to the first said segmental member within said shell abutting the inner face of said shell and having an outwardly extended flange, means between the flanges of said segmental members and the flange of said shell adapted to move said segmental members longitudinal in said shell, a longitudinally movable plunger positioned between said segmental members, said plunger having an extended flange and having wedge-shaped lower portions with plane surfaces coacting with and complemental to said segmental wedge-shaped portions and means between the flange of said segmental members and the flange of said plunger adapted to move said plunger and said segmental members relative to each other.

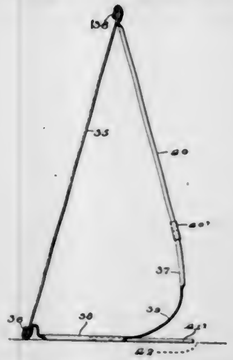
2,160,455
AIRPLANE
Charles Roger Anne Marie de Rougé, Mercues, France, assignor to Poliopas Patents Limited, London, England, a corporation of Great Britain
Application February 11, 1937, Serial No. 125,203
In Germany February 19, 1936
4 Claims. (Cl. 244—83)

1. An airplane comprising a main supporting plane and a plurality of additional planes disposed above and spaced from said main supporting plane and adapted to be tilted about an axis transverse to the direction of flight, each additional plane comprising an individually movable part, and said parts being interconnected by a plurality of pivotal connections about which they are adapted to be individually tilted, and means



for controlling the movement of said additional planes about said transverse axes.

2,160,456
EASEL
Morton E. Evans and Wayne S. Evans, Philadelphia, Pa., assignors, by mesne assignments, to National Carbon Company, Inc., a corporation of New York
Application June 26, 1937, Serial No. 150,582
11 Claims. (Cl. 40—125)

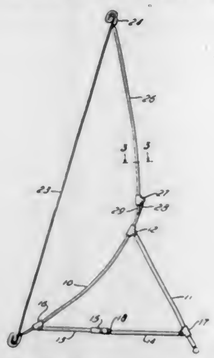


5. An easel, comprising an element of U-shaped cross section and having relatively upright and horizontal base portions, and to nest closely adjacent to said resilient portion when the upright and base portions are not in use and an extension of said base adapted to rest substantially uniformly upon a supporting surface to increase stability, and to nest closely adjacent to said resilient portion when the upright and base portions are not in use.

2,160,457
FOLDING EASEL
Alfred J. Housman, Hollis, N. Y., and Wayne S. Evans, Philadelphia, Pa., assignors to National Carbon Company, Inc., a corporation of New York
Application July 30, 1937, Serial No. 156,496
9 Claims. (Cl. 40—125)

3. An easel, comprising a generally triangular base, formed of a front element, a leg element

pivotally connected at its upper end to said front element, said front element extending beyond said pivotal connection, and a spreader element comprising a pair of angularly movable sections pivotally connected together and at their oppo-



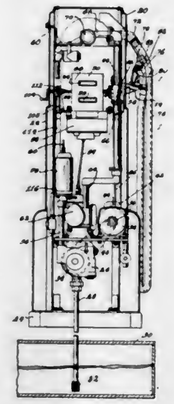
site ends being pivotally connected to said front and leg elements respectively, a flexible extension element pivotally attached to the free end of the extension of said front element, and means to limit the angular movement between said front and extension elements.

2,160,458
ARTIFICIAL THREAD DRESSING COMPOSITION
Ernest K. Gladding, Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 31, 1935, Serial No. 47,673
7 Claims. (Cl. 28—1)

1. The method of obtaining a substantially undegraded fabric which comprises treating with formamide a previously formed thread, yarn or filament composed of an organic solvent-soluble cellulose derivative taken from the group consisting of cellulose esters and cellulose ethers whereby to render the same more flexible and pliant, and working said thread, yarn or filament into a fabric.

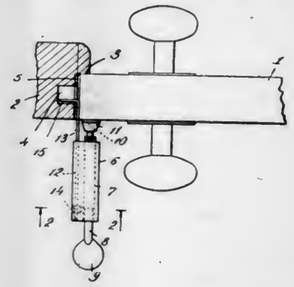
2,160,459
LIQUID DISPENSING APPARATUS
Robert J. Jauch, William G. Polhamus, and Ross H. Arnold, Fort Wayne, Ind., assignors to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland
Application April 5, 1937, Serial No. 135,146
25 Claims. (Cl. 221—95)

1. In liquid dispensing apparatus, the combination of a pump adapted to be connected to a source of liquid supply, a meter the inlet side of which is connected to the outlet side of said pump, a discharge line connected to the outlet side of said meter, a register operated by the meter, the operation of the register being proportional to the amount of liquid dispensed, a reset shaft for said register, a reset shaft operating member, a clutch adapted to connect said reset shaft operating member to said reset shaft, means controlled by the pressure of the liquid supplied to said meter for disengaging said clutch when the pump is operating, a valve in said discharge line, locking means for locking said valve in closed position after liquid has been discharged and the pump rendered inoperative, and means controlled by said register for rendering the lock-



ing means inoperative when the register is reset to zero.

2,160,460
DOOR FASTENER
Patrick J. McNaney, New York, N. Y.
Application March 28, 1939, Serial No. 264,508
3 Claims. (Cl. 292—291)

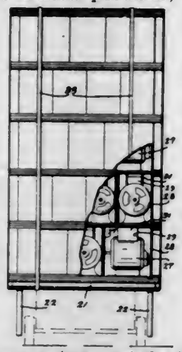


1. In a device of the character described, a member having a threaded opening and having a groove substantially parallel to said opening, a threaded bolt mounted in said opening and adapted to engage the face of a door, an arm hinged to the member and arranged in said groove when in operative position, and a hook carried by said arm.

2,160,461
SHIPPING CRATE
John J. O'Connell and Harry S. Malone, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 5, 1936, Serial No. 67,264
3 Claims. (Cl. 206—46)

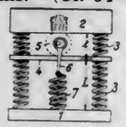
1. In a shipping crate, the combination with a plurality of separators each having a flat sheet of rigid material bounded on its edges with raised portions on opposite sides thereof; a plurality of individual tubular members formed from sheet stiff paper for enclosing articles of manufacture, said tubular members being assembled with an open end resting on a separator within the raised portions and the opposite open end of each tubular member supporting another separator by en-

gaging the under surface of a separator within the respective raised portions; and means for



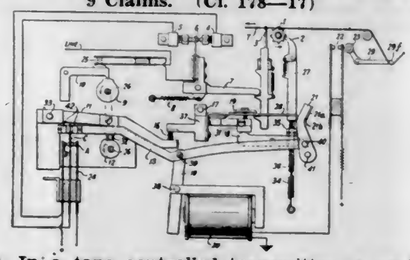
clamping the separators and the tubular members in a rigid relation for shipment.

2,160,462
RAMMING MACHINE
Georg Heinrich Schieferstein, Berlin-Charlottenburg, Germany
Application November 11, 1936, Serial No. 110,322
In Germany December 7, 1934
3 Claims. (Cl. 94—48)



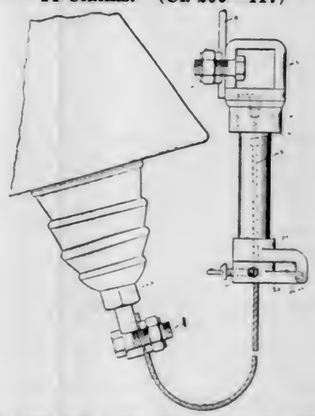
1. In a ramming machine, an oscillating device comprising two masses, an energy accumulating installation connected to said masses to permit oscillation of both masses substantially on a common axis, a supporting member fastened to the neutral point or oscillation node of said energy accumulating installation, a driving device mounted on said supporting member, and a loose coupling connecting said driving device to one of said masses.

2,160,463
TRANSMITTER TAPE CONTROL DEVICE
James A. Spencer, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 17, 1936, Serial No. 101,227
9 Claims. (Cl. 178—17)



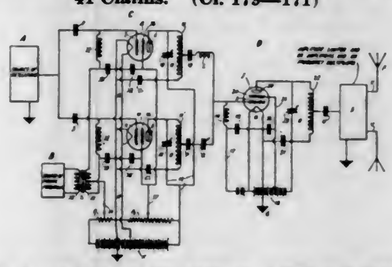
1. In a tape controlled transmitter, a perforated tape, a tape feed mechanism, a code signaling mechanism operable under control of said tape, means including a motor for driving said feed mechanism and said code signaling mechanism synchronously, an intermittently operable tape perforator for delivering a slack portion of said tape to said transmitter, a take-up detecting device engageable with said slack portion of the tape, magnetic means operable under control of said take-up detecting device when the tape becomes taut for disengaging said tape feed mechanism from said driving mechanism, and means operative while said tape feed mechanism is disengaged for maintaining the code signaling mechanism in driven connection with said motor.

2,160,464
EXPULSION FUSE
Alwin G. Steinmayer, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application September 24, 1936, Serial No. 102,293
14 Claims. (Cl. 200—117)



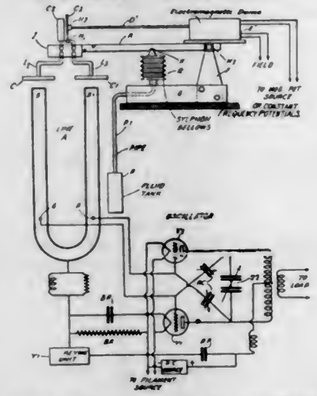
14. A fuse cartridge comprising a fuse tube, a biased lever mounted thereon, and a fuse link in said tube, said cartridge including a flexible leader extending from said lever to a point remote from said cartridge, and clamping means for releasably connecting said fuse link with said lever, said leader being secured directly to said lever.

2,160,465
PHASE MODULATION
George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 15, 1932, Serial No. 637,923
41 Claims. (Cl. 179—171)



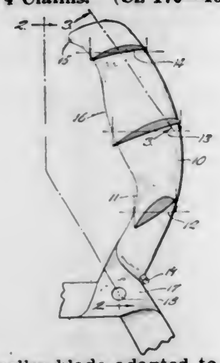
36. A method of impressing phase changes at signal frequency or wave energy comprising, dividing the energy from a source of wave energy into two branches, differentially modifying the amplitudes of the energy in the branches in accordance with signals, then subjecting the energy in one branch to a leading power factor and subjecting the energy in the other branch to a lagging power factor, then combining the energy from the two branches so that the combined wave is of substantially constant amplitude with a varying phase.

2,160,466
OSCILLATION GENERATOR AND FREQUENCY MODULATOR
George Lindley Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 5, 1935, Serial No. 43,694
21 Claims. (Cl. 179—171)



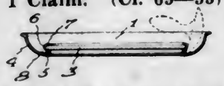
1. In a signaling system, an oscillation generator including a U-shaped frequency controlling resonant line having controllable capacitive reactance, and means for varying the effective capacitive reactance of said line at signal frequency for modulating the frequency of the oscillations generated.

2,160,467
PROPELLER
Edgar T. Ward, Chicago, Ill.
Application September 22, 1937, Serial No. 165,123
4 Claims. (Cl. 170—159)



1. A propeller blade adapted to operate in air comprising, a one-piece air-foil section blade having a sweep-back rearwardly, as regards the direction of rotation, from a portion outwardly of a hub portion toward and to the tip portion, the leading and trailing edges lying between parallel planes perpendicular to the axis about which the blade is to rotate, the trailing edge lying substantially in one of said planes from adjacent to the hub portion to adjacent to the tip portion and thence departing toward the other plane, the leading edge lying substantially in the other of said planes from the hub portion substantially to the beginning of the sweep-back and thence gradually departing for approximately one-half of its remaining length toward the first said plane and thence for the remainder of its length gradually returning toward said other plane, the part of the trailing edge at the tip thereof being relatively abruptly carried rearward as regards the direction of rotation, and the tip portion being curved on relatively short radii toward said trailing edge part and toward said other plane.

2,160,468
COASTER FOR HOLDING DRINKING VESSELS
Edith C. Richards, South Portland, Maine, assignor to The Watson Company, Attleboro, Mass., a corporation of Massachusetts
Application February 9, 1937, Serial No. 124,857
1 Claim. (Cl. 65—53)



A coaster comprising a sectional shallow saucer including an outer annular portion and a disk-like central portion, the outer annular portion including a curved peripheral wall and an upright ridge at the inner end thereof, said ridge being reversely curved in cross section to provide an inwardly opening upper groove for accommodating the disk, and an outwardly opening lower groove adapted to accommodate the edge of the bowl of a spoon.

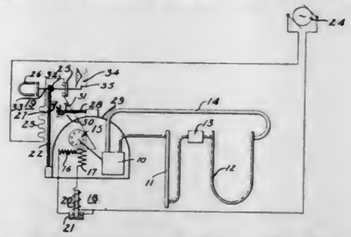
2,160,469
AMMUNITION
Willi Brün and James E. Burns, Bridgeport, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Original application April 25, 1934, Serial No. 722,240. Divided and this application July 10, 1937, Serial No. 152,991
2 Claims. (Cl. 52—19)

1. In the preparation of an ammunition priming composition which comprises an admixture of lead nitrato-hypophosphite with inexplosive ingredients selected from the groups of known oxidizers, fuels and abrasives, the method which comprises the compounding of said lead nitrato-hypophosphite from lead nitrate and lead hypophosphite in situ in admixture with said inexplosive ingredients and in relatively small grains separated by said inexplosive ingredients by mechanically mixing the requisite quantities of said inexplosive ingredients and said lead nitrate and lead hypophosphite in a moistened condition, and continuing such mechanical mixing until the reaction between said lead nitrate and lead hypophosphite resulting in the formation of lead nitrato-hypophosphite is substantially complete.

2,160,470
REFRIGERATION
Robert R. Candor, Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, a corporation of Delaware
Application September 29, 1932, Serial No. 635,389
Renewed April 16, 1937
18 Claims. (Cl. 62—4)

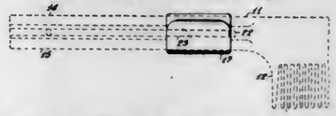
1. A refrigerating system including a compressor, condenser and evaporator in a closed

refrigerant circuit, an electric motor for driving said compressor, said motor having a starting winding and a running winding, a source of electrical energy, means for maintaining the flow of current from said source through said starting winding during a starting period and for stopping the flow of said current at the termination of said starting period, means for rendering said first named means reoperative after a



temporary interruption in the supply of electrical energy, and means responsive to the normal operating temperature of a member of said refrigerating system for preventing the flow of current through said windings for a predetermined period of time if said temporary failure should prove to be of insufficient duration to unload said refrigerating system, and means for equalizing refrigerant pressures in said system during said predetermined period.

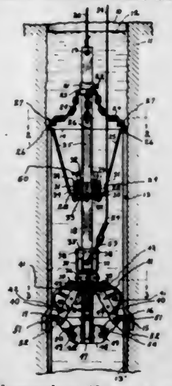
2,160,471
HAIRDRESSING MEANS
Francis Cerisano, New York, N. Y.
Application February 10, 1938, Serial No. 189,748
4 Claims. (Cl. 132—33)



1. A hair curling instrument comprising a pronged element having a pin retaining tool mounted thereon, means integral with said pin retaining tool to hold both legs of a pin in a plane perpendicular to the plane of the prongs of said pronged element, and simultaneously to direct one leg of the pin into the space between the prongs, and to hold said leg in said position during the curling operation.

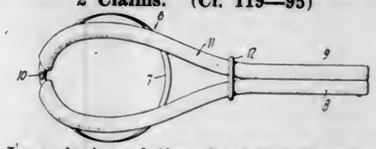
2,160,472
WELL CASING EXTRACTOR
Joe C. Cizek, Prague, Nebr.
Application January 31, 1938, Serial No. 187,814
5 Claims. (Cl. 294—97)

1. In a tile extractor, a rigid shaft, a guide slidably disposed adjacent one end of said shaft, a plurality of toggles radially disposed about said end having pivotal connections to and between said end and guide, said toggles provided with comparatively acute outwardly disposed portions adapted to move away from said shaft correspondingly with respect to a sliding movement of said guide for engaging the inner wall of a tile adjacent one end of the latter, actuating means for causing said guide to slide, resilient means associated with the toggles for centering said end of the shaft with respect to said end of the tile during said engagement, a plurality of flexible members carried by said shaft adjacent the other end thereof and radially disposed outwardly and inclinedly from said shaft, said members being adapted to engage the other end of said tile for centering the other end of said shaft, and means



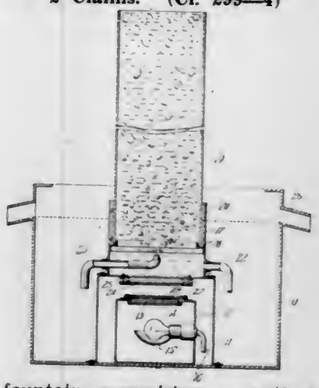
for raising and lowering the extractor longitudinally of the bore of a well.

2,160,473
ANIMAL SANITARY APPLIANCE
Edward I. Dunn, San Francisco, Calif.
Application December 14, 1938, Serial No. 245,597
2 Claims. (Cl. 119—95)



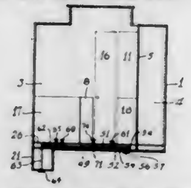
1. In a device of the character described, an elongated spring strip member looped and secured upon itself to provide a receptacle receiving portion and arm portions extending therefrom, rubber tubing covering each of said arms, and a ring slidable along said arms to secure said arms together and in a cooperative clamping relationship.

2,160,474
FOUNTAIN
Bassett Jones, New York, and J. Samuel Hamel, Babylon, N. Y., assignors, by direct and mesne assignments, to New York World's Fair 1939 Inc., New York, N. Y., a corporation of New York
Application May 15, 1937, Serial No. 142,726
2 Claims. (Cl. 299—4)



1. A fountain comprising a vertical transparent tube, a metal cylindrical support surrounding the lower end of said tube and having a shoulder upon which said lower end rests, a frame upon which said cylindrical support is mounted, said frame having a circular aperture coaxial with said tube, a transparent disk closing said aperture, a light source within said frame below said disk, and means for supplying liquid and gas through said cylindrical support below said shoulder.

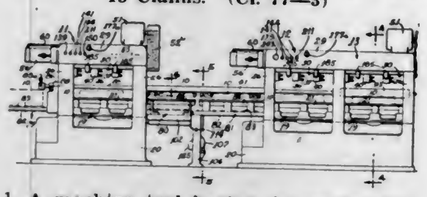
2,160,475
FREEZE ELIMINATOR FOR DINING CAR DRAINS AND THE LIKE
Joseph Josephus, Oakland, Calif.
Application September 24, 1937, Serial No. 165,605
2 Claims. (Cl. 237—40)



1. The combination with a dining car having a vegetable compartment with a drain opening in its bottom, of a steam conveying pipe extending downwardly through the compartment and terminating in the drain opening, and a valve for controlling the flow of steam through the pipe, the steam in issuing from the pipe passing through the drain and preventing it from freezing, the steam also rising in the compartment and keeping the temperature in the compartment at a point which will prevent the vegetables from freezing.

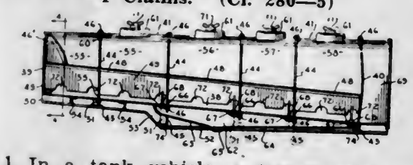
2. The combination with a dining car having an article of furniture therein with a drain opening in the floor under the furniture, of a steam conveying pipe extending to the opening and having a horizontally disposed steam outlet extending beyond the opening and a branch extending down into the opening, and a valve for controlling the flow of steam through the pipe, the steam in issuing from the horizontal and downwardly extending steam outlets preventing the freezing of any drain water under the furniture and in the drain opening, said horizontally disposed steam outlet also acting as a drain for conveying water from under the furniture to the branch where it will be carried away from the car.

2,160,476
MACHINE TOOL
Frederick J. Kampmeier, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application April 22, 1936, Serial No. 75,857
15 Claims. (Cl. 77—3)



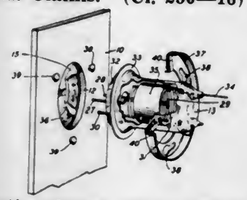
1. A machine tool having, in combination, a vertically movable support on which a work piece may be mounted, accurately located downwardly facing abutment surfaces positioned to engage a surface of the work piece as said support is elevated, hydraulically actuated means adapted when supplied with pressure fluid to elevate said support and clamp the work piece thereon in working position against said abutment surfaces preparatory to machining the work piece, dowel means associated with said abutment surfaces and interengaging with complemental dowel means on the work piece to effect accurate location of the work piece laterally as it approaches said abutment surfaces, a tool for performing a machining operation on the positioned work piece, a device responsive to the final movement of said work piece following interengagement of said dowel means, a device arranged to detect a predetermined pressure built up in said hydraulic means following engagement of said work piece and abutment surfaces, and power actuated mechanism controlled by the joint action of said devices and operating in response thereto to effect relative feeding movement between said tool and work piece.

2,160,477
VEHICLE TANK
Andrew A. Kramer, Kansas City, Mo.
Original application February 17, 1934, Serial No. 711,753. Divided and this application December 14, 1936, Serial No. 115,830
4 Claims. (Cl. 280—5)



1. In a tank vehicle, a transversely curved elongated tank body tapering gradually longitudinally of said vehicle from one end thereof to the other end thereof, the cross-sectional shape of said tank body varying progressively from the greater end thereof to the lesser end thereof to provide a transversely curved bottom portion on said tank body sloping gradually downwardly from the lesser end thereof to the greater end thereof, the wall of said tank body being curved transversely throughout any cross section thereof from end to end of said tank body, and reinforcing means for said tank body comprising longitudinally extending external bracing members under said body extending forwardly from the greater end of said body, said longitudinally extending bracing members increasing gradually in height from the rear ends thereof to the forward ends thereof.

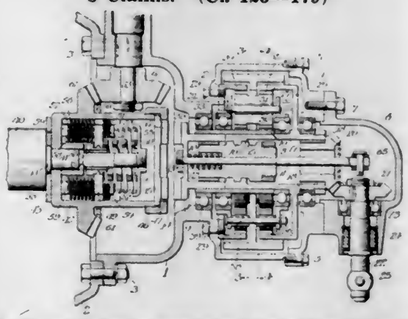
2,160,478
MOUNTING FOR ELECTRON DISCHARGE DEVICES
Joseph P. Laico, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 29, 1936, Serial No. 66,414
12 Claims. (Cl. 250—16)



9. A mounting for an electron discharge device of the acorn type having a projecting metallic flange between a cap portion and a receptacle of glass, the cap portion being provided with a plurality of parallel terminal prongs for the elec-

trodes in said receptacle, comprising a metallic base having an aperture of such size to permit the entrance of said cap portion but preventing the passage of said flange therein, a plurality of segmental metallic plates parallel to said base and arranged at different radial angles with respect to the axis of said base, an insulating ring interposed between said plates and said base, means insulatingly supporting said plates by said base, said plates and base forming condenser elements adapted to be coupled to the electrodes of said device, a plurality of contact members associated with said plates, said contact members having resilient portions adapted to receive the terminal prongs projecting through said base, the ends of said plates adjacent said resilient portions of said contact members being tapered away from said base to form a clearance for the cap of said device, a plurality of pins extending from said base on the side opposite to said plates, a rotatable locking ring engaging said pins, and a plurality of springs carried by said ring and adapted to press said flange into engagement with said base.

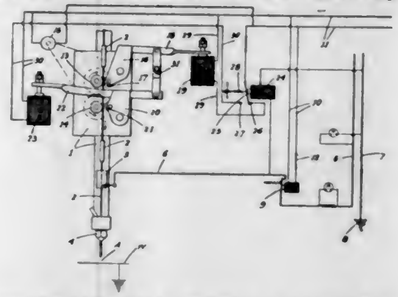
2,160,479
ENGINE STARTER
Raymond P. Lansing, Montclair, N. J., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 8, 1927, Serial No. 181,975
Renewed January 29, 1936
5 Claims. (Cl. 123—179)



1. In an engine starting apparatus, the combination, with a rotatable member of the engine to be started, of yielding driven means constantly connected with said engine-member, a central driving member adapted to engage said driven means and crank the engine member, and actuating means therefor including reduction gearing comprising a stationary internal gear, a parallel rotatable internal gear having a hub which is operatively connected with the driving member to rotate it unyieldingly, pinions and a cage therefor, a driving member operatively connected with said hub and adapted to engage and crank the engine member, and driving means connected directly with said cage.

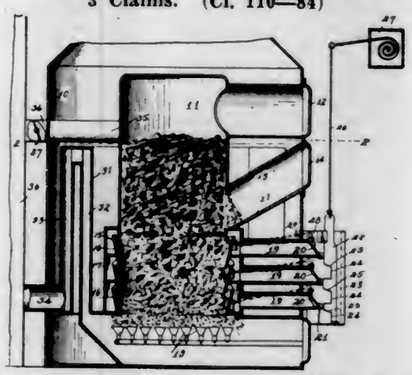
2,160,480
FEED CONTROL FOR WELDING RODS
Robert G. Le Tourneau, Ray Peterson, and Elmer E. Isgren, Peoria, Ill., assignors to R. G. Le Tourneau, Inc., a corporation of California
Application February 28, 1938, Serial No. 192,930
2 Claims. (Cl. 219—8)

1. In a feed control mechanism for a welding rod, separate driven feed rolls arranged to engage and feed the rod in opposite directions, idler pressure rolls mounted in opposition to the feed rolls in position to cooperate with the rod to cause either feed roll to be drivingly engaged with the rod, separate movable members on which said pressure rolls are mounted, separate electrical means to act on said members alternatively and



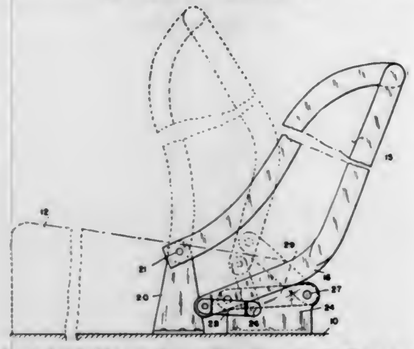
move the same in a direction to cause the corresponding pressure rolls to be pressed against the rod, and a mechanical connection between the members arranged to cause one member to be moved to withdraw its roll from the rod when the other member is moved by its electrical means.

2,160,481
FURNACE
Lee Lockwood, Des Moines, Iowa
Application May 11, 1936, Serial No. 79,080
3 Claims. (Cl. 110—84)



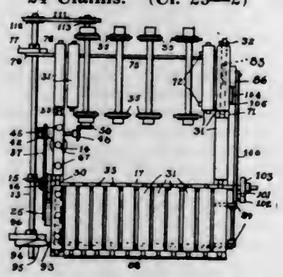
1. An improved furnace, comprising a fuel magazine, a series of combustion compartments arranged one above the other, the uppermost one being positioned below the fuel magazine and all of the combustion compartments being open at their upper and lower portions to permit fuel to move by gravity downwardly through them, a grate below the lowermost combustion compartment, independent damper-controlled means for admitting air for combustion purposes to the upper portion of each combustion compartment, means for enclosing said combustion compartments against the admission of air for combustion purposes except through said damper-controlled means, a flue leading from the lower compartment, said members being so constructed and positioned relative to each other that when all of said damper-controlled means are open, air may enter each compartment from the upper portion and pass downwardly through the compartment and into the upper portion of the compartment below and finally to the flue, and whereby combustion may occur in all of the combustion compartments, and if the damper-controlled means for the upper combustion chamber is closed, combustion of fuel therein will be rapidly discontinued without interfering with combustion in a lower combustion compartment in which the damper-controlled means is open.

2,160,482
SEAT CONSTRUCTION
Thomas A. McGregor, Pontiac, Mich., assignor to American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan
Application November 9, 1936, Serial No. 109,861
4 Claims. (Cl. 155—5)



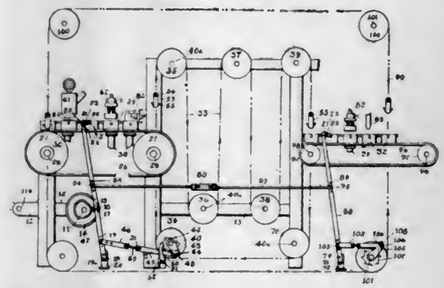
1. A foldable seat construction including a seat portion, a back portion normally extending upwardly from a line located near the rear edge of the seat portion, and supporting hinge means for the back portion comprising an upstanding bracket element located near the rear edge of and below the seat portion, a pair of links articulated to said bracket element upon opposite sides thereof and swingable vertically, said links being at their other ends articulated to said back portion to control the swinging movement thereof, said back portion having a bottom section engageable with the top of the bracket element when said back portion is in its normal position, the links extending upon opposite sides of both the bracket element and said bottom section of the back portion to maintain the alignment thereof.

2,160,483
APPARATUS FOR THE MANUFACTURE OF POTTERY WARE
William J. Miller, Swissvale, Pa.
Substitute for abandoned application Serial No. 163,421, January 25, 1927. This application April 3, 1935, Serial No. 14,446
24 Claims. (Cl. 25—2)



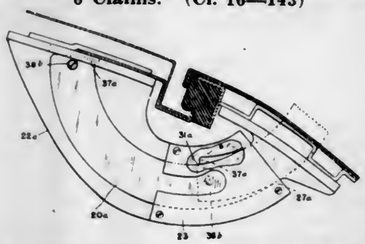
1. In apparatus for the manufacture of pottery ware, in combination, a dryer and a conveyor operating therein having removable mold carriers, means for automatically removing and replacing mold carriers thereon, means for circulating said carriers between the points of removal and replacement and means for fabricating ware on the molds of said carrier incident to said circulation.

2,160,484
APPARATUS FOR THE MANUFACTURE OF ARTICLES FROM PLASTIC MATERIALS
William J. Miller, Swissvale, Pa.
Substitute for abandoned application Serial No. 163,740, January 26, 1927. This application April 3, 1935, Serial No. 14,447
11 Claims. (Cl. 25—2)



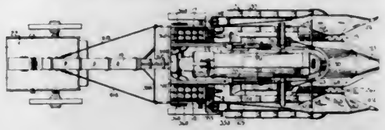
1. In apparatus for the manufacture of potteryware, in combination, a fabricating machine provided with means for fabricating more than one piece of ware at a time, conveying means for empty molds located adjacent thereto, means for removing molds from said conveying means and transferring the same to said fabricating means, and means for replacing filled molds on said conveying means.

2,160,485
HINGE CONSTRUCTION
Norbert L. Obrecht, Pontiac, Mich., assignor to American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan
Application June 8, 1936, Serial No. 84,113
6 Claims. (Cl. 16—143)



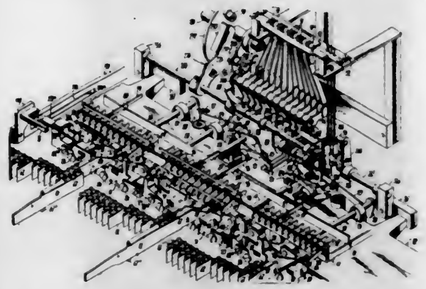
5. A hinge construction comprising a pair of slidably interfitted elements at least one whereof is arced about an axis outside itself, said elements being movable about such axis with respect to each other, means for securing the outer end of each element to a support or hinged object, means for limiting relative sliding movement of said elements, and detent means for releasably holding said elements against relative movement, including portions engageable by rocking movement of one element with respect to the other about an axis eccentric to the first mentioned axis.

2,160,486
CORN PICKER
Alvin W. Oehler and Ralph L. Anderson, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 10, 1936, Serial No. 58,449
Renewed December 2, 1937
50 Claims. (Cl. 56—18)



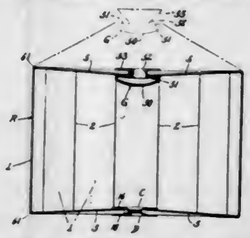
5. The combination with a tractor, of an agricultural implement comprising a frame connected with the tractor so as to move therewith, a pair of toggle links pivotally connected at one end with said frame, independently movable supporting wheel means connected with the lower end of each of said toggles, and spring means biasing said toggle links for movement so as to subject said wheel means to a substantial portion of the weight of said implement frame and associated parts while accommodating the independent movement of said wheel means relative to the tractor and said frame.

2,160,487
COMBINED TYPEWRITING AND COMPUTING MACHINE
Henry L. Pitman, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application April 2, 1936, Serial No. 72,348
7 Claims. (Cl. 235—60)



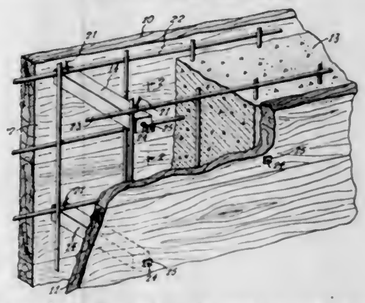
1. In a combined typewriting and computing machine, the combination of a step-by-step feeding carriage, a key-set register including control-mechanism traversed by said carriage, a latch normally supporting said register-control mechanism in order that the latter may be operable by said carriage, said latch being trippable for instantaneously disabling said register-control mechanism relatively to said carriage, a register-control-mechanism silencer shiftable at will from an idle position to an effective position to thereby engage and trip said latch, a detent to releasably hold said silencer in effective position to indicate that said control mechanism is disabled, means actuable to restore said register-control mechanism, a normally disconnected power-operable actuator for said register-control-mechanism-restoring means, means, including a clutch, operable at will to connect said actuator and register-control-mechanism-restoring means for automatically actuating the latter, and means acting concomitantly with the operation of said last previously mentioned means to restore said silencer to idle position.

2,160,488
CONTAINER
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application May 20, 1936, Serial No. 80,678
10 Claims. (Cl. 229—21)



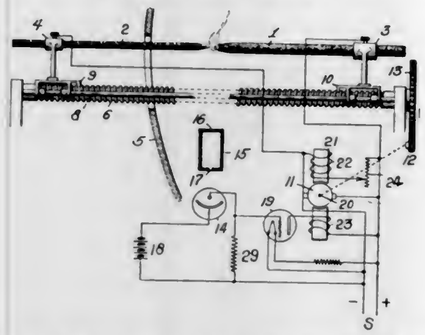
7. A container including, a tubular body portion and an end wall portion formed from a single blank of paperboard material, said end wall portion comprising integrally connected segments arranged in overlapping relationship, and means for sealing the inner adjacent ends of said segments, said means including a closure element having spaced formable flange portions overlapping of the opposed faces of the inner ends of said segments, said flange portions being pressed together into gripping engagement with the inner ends of said segments, and a calking plastic providing a tight seal between the inner ends of said segments and said flange portion.

2,160,489
SPREADER FOR BUILDING CONCRETE WALLS
Andrew Spies, Bayside, N. Y.
Application September 29, 1937, Serial No. 166,291
1 Claim. (Cl. 25—131)



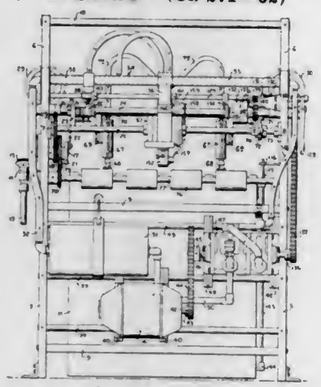
A spreader adapted to be used in combination with a pair of spaced-apart walls forming a trough into which concrete is adapted to be poured and reinforcing grills adapted to be imbedded in the concrete, comprising an elongated member of cement or the like having a longitudinal opening passing therethrough, a tube within said member lining said opening, wires imbedded in said member and looped around said tube, the ends of said wires being twisted and passing laterally through said member and being adapted to be secured on said grills, and removable means for locking said member and walls together.

2,160,490
ELECTRODE FEEDING MEANS
Harry H. Strong, Toledo, Ohio, assignor to The Strong Electric Corporation, Toledo, Ohio, a corporation of Ohio
Application January 24, 1936, Serial No. 60,589
1 Claim. (Cl. 176—75)



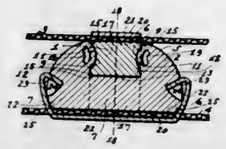
In an automatic feed for maintaining a fixed position of an electrode arcing tip, a photo-electric cell, means for focusing a beam from said arcing tip thereon as said tip approaches its predetermined position, a motor for feeding said electrode having a double wound field, one winding being constantly excited and the other continuously but variably excited by the output of said cell, whereby continuous graduated control of the position of said tip is maintained.

2,160,491
SHEET FEEDER
Paul Cernak, Montvale, N. J., assignor to Dexter Folder Company, New York, N. Y., a corporation of New York
Application December 30, 1937, Serial No. 182,397
17 Claims. (Cl. 271—62)



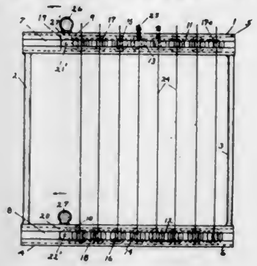
1. In a sheet feeder having sheet feeding means, a pile elevator, and mechanism for intermittently raising the elevator and pile during feeding of sheets from the top of said pile by said sheet feeding means, separate motor driven means for rendering the sheet feeding means effective to feed sheets from the top of the pile as aforesaid, and elevator controlled means for throwing said separate motor driven means and the sheet feeding means out of operation when the elevator reaches a certain height and prior to feeding of all the sheets therefrom.

2,160,492
DETACHABLE FASTENER FOR GARMENTS AND THE LIKE
Mildred G. Cook, Big Rapids, Mich.
Application July 18, 1938, Serial No. 219,707
5 Claims. (Cl. 24—213)



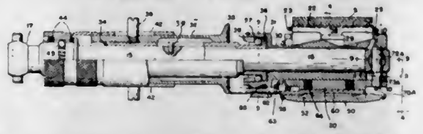
4. A device of the class described for connecting articles detachably comprising a pair of cooperating members adapted to be mounted at their inner sides on the articles respectively and being substantially identical and made of resilient material, each member having a cross-sectionally reduced medial portion and a transversely extending socket in its outer side with convergingly bowed side portions, said socket of each member receiving said medial portion of the other member in the operative connected position of the members, each member having also a socket in each of its opposite other sides, said converging side portions of each member engaging interlockingly in the last mentioned sockets respectively of the other member for yieldingly holding the connected members against separating movement, said bowed portions having correspondingly shaped and parallelly extending cavities for increasing their compressibility.

2,160,493
BREAD SLICING MACHINE
Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa
Application February 16, 1938, Serial No. 190,765
9 Claims. (Cl. 146—153)



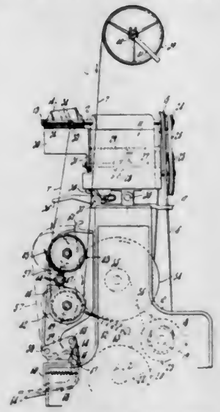
1. In a bread slicing machine of the multiple-bladed type, a frame comprising a pair of spaced tubular crossbars with side bars uniting same, adjustable blade spacing assemblies removably secured in the crossbars respectively, each assembly comprising a plurality of spaced shafts, each shaft having rollers revolvably mounted thereon to travel within its respective crossbar, one terminal member of the assembly being rigidly secured to the crossbar and the opposite terminal member being united to a block slidably mounted in said crossbar, links uniting the adjacent shafts in pairs and a link connecting the sliding block with the shaft nearest thereto, the links connecting the shafts being provided with elongated openings through which the shafts pass to permit a limited movement of the shafts longitudinally of the links, extensions formed integral with the shafts and projecting outwardly from the crossbars and having slots to space the cutting blades.

2,160,494
HONING MECHANISM
Carl W. Floss, Detroit, Mich.
Application March 14, 1938, Serial No. 195,780
15 Claims. (Cl. 51—184.3)



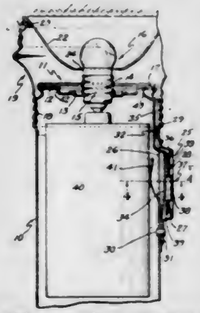
1. In combination with a shaft adapted to be rotated and reciprocated by a machine tool, a working head carried by the shaft, a set of working elements extensible and retractible radially with respect to the head, a set of guide elements also extensible and retractible with respect to the head, means for concurrently moving one of said sets of elements inwardly and the other set outwardly, comprising a common cam member engageable with all of the elements of one of said sets, and a plurality of oppositely acting cam members engaging the elements of the other of said sets, and common actuating means for all of said cam members.

2,160,495
MECHANISM FOR SUPPLYING A THREAD UNDER UNIFORM TENSION
Raymond S. Francis, Rumford, R. I., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application May 12, 1938, Serial No. 207,480
15 Claims. (Cl. 242—45)



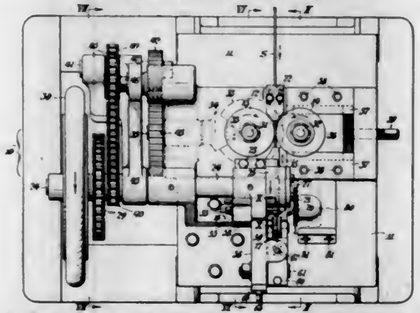
1. In an apparatus of the type described in combination, a source of thread supply, power driven thread take-up means, and mechanism interposed between said source of supply and take-up means for pulling the thread forward from the source of supply to supply it to the take-up means under substantially uniform tension, comprising a drum about which the thread is looped in not appreciably more or less than one complete circle, a grooved booster pulley for guiding the thread toward said drum and about which the thread passes part way around in one loop only as it approaches said drum, and means for driving the drum and pulley at a surface speed in excess of the take-up speed of said thread, whereby the tension of the advancing thread controls the speed at which it is pulled forward by the pulley and drum.

2,160,496
FLASHLIGHT SWITCH
Giles C. Fullmer, Bridgeport, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut
Application April 17, 1936, Serial No. 74,935
1 Claim. (Cl. 240—10.66)



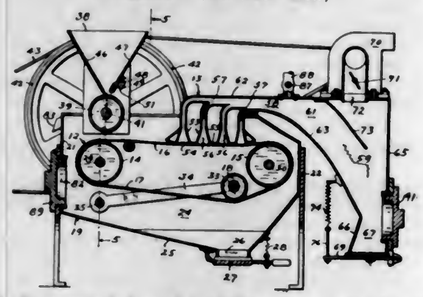
In a flashlight, a casing, means insulated from the casing and electrically connected with a bulb, a switch on the casing and comprising a housing having an elongated opening therein, a button including a portion in said opening and a plate at the inner side of the housing and movable with the button, a spring contact having a portion in the housing and a portion extending into the casing, a protuberance on said contact within the housing, and said button being shiftable along the elongated opening in the housing to cause said plate to ride onto said protuberance and thereby flex said contact to have it engage said means and close a circuit through said bulb.

2,160,497
MACHINERY FOR MAKING CIRCULAR AND COILED ARTICLES
George K. Garrett, deceased, late of Bryn Mawr, Pa., by Katherine Garrett Hickman, administratrix, Bryn Mawr, Pa.
Application October 16, 1937, Serial No. 169,419
6 Claims. (Cl. 10—73)



1. In a machine of the character described, the combination of peripherally coacting driven and idle feed rolls engaging at opposite sides of a metal strip, one having its periphery transversely ridged and the other having its periphery ridged circumferentially; means for guiding and confining the strip against buckling under the push of said feeding means; an abutment in the path of said strip for bending and winding it; an arbor adjacent said abutment having a rotatable portion around which the strip coils and a fixed cutting portion; a movable cutter coacting with said cutting portion to sever sections of the coiled strip from the coil on the arbor by movements downward adjacent said cutting portion of the latter; a support engaging the strip under the arbor to sustain the latter against the downward cutting pressure; and means for adjusting said support transversely of the strip, in the direction of the arbor axis, and for also adjusting it up or down in any of its positions of transverse adjustment.

2,160,498
SEPARATOR
Rudolph W. Goeb, Oakland, Calif.
Application July 28, 1936, Serial No. 93,006
7 Claims. (Cl. 209—132)



1. In a separator of the class described, a conveyor belt for materials to be segregated, and a suction head overlying said belt and providing a succession of downwardly opening suction nozzles aligned along the belt and providing inlet openings of uniform width across the belt, successive said openings being progressively narrower in the direction of movement of the belt at the nozzles.

2,160,499
FISHING POLE HOLDER
Rudolph W. Goeb, Oakland, Calif.
Application January 27, 1937, Serial No. 122,556
2 Claims. (Cl. 248—44)

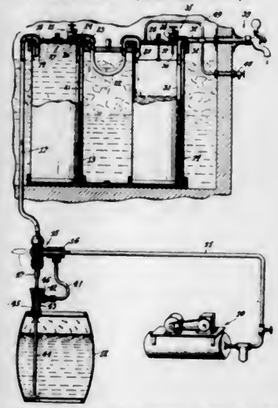


2. In a fishing-pole holder for the described purpose, a stake for fixed disposal in an upright position and comprising a member of channel cross-section and bifurcated at its upper end to provide a fork having sides presenting corresponding edges in mutually coplanar relation and with their plane in oblique relation to the longitudinal axis of the stake whereby a pole disposed longitudinally in the trough of the stake will extend obliquely through the fork, and a member mounted on the stake for adjustment longitudinally therealong and providing a loop encircling the stake trough and arranged to freely receive the butt end of a fishing pole in the trough, said fork being adapted to engage a reel base carried by the pole.

2,160,500
METHOD OF RECOVERING METALS AND PAPER
Ludwig Halberstadt, Halle, Germany
No Drawing. Application September 23, 1936, Serial No. 102,175. In Germany September 27, 1935
1 Claim. (Cl. 92—9)

A process of recovering both paper and aluminum from waste material comprising paper having adherent aluminum foil thereon, including treating the waste material with acetic acid as reagent in the presence of mercuric chloride as activating agent for the aluminum to cause the same to be dissolved by the reagent, the reagent and activating agent being so diluted as to cause the chemical structure of the paper to be substantially maintained, and the reagent being substantially incapable of dissolving the aluminum independently of the activating agent, and finally removing the aluminum compound produced.

2,160,501
METHOD OF FILLING LIQUID DISPENSING SYSTEMS
Edward G. Hedges, Newark, and Robert Stickles, Union, N. J.
Application April 1, 1936, Serial No. 72,016
6 Claims. (Cl. 225—1)



1. The method of maintaining the effervescent properties of a liquid such as beer while being conveyed from a supply container to a cooling and dispensing container which comprises initially filling said dispensing container with a pressure fluid in excess of that required to retain the gases in said liquid, subjecting the liquid in said supply container to a pressure fluid equal to that in said dispensing container, simultaneously interrupting the supply of pressure fluid to said dispensing container and connecting said supply container to said cooling and dispensing container, and gradually decreasing the pressure of said fluid in said dispensing container to a value sufficient to retain the gases in the liquid yet insufficient to retard the flow of liquid into the

dispensing container without exposure of said liquid to the atmosphere during its flow from the supply container to the dispensing container or during retention of said liquid in said dispensing container prior to withdrawal for consumption.

2,160,502
UNIVERSAL SLED BRAKE
Harry F. Heffner and Lewis L. De Turk, Kearny, N. J.
Application January 19, 1937, Serial No. 121,272
3 Claims. (Cl. 188—8)



1. In a braking device for a sled, a pair of clamps, means for securing said clamps to a sled member, a handle having two projecting arms, said arms being movably mounted on said clamps, a pivotal bar mounted in said projecting arms, a shoe carrying member having elongated slots therein for adjustably securing said carrying member to a sled, a brake shoe movably connected to said carrying member, resilient means for holding said shoe in a retracted position, and an adjustable member connecting said pivotal bar to said shoe.

2,160,503
BLOOD STANCHER
Willy O. Herrmann, Deisenhofen, Germany, assignor to Chemische Forschungsgesellschaft, m. b. H., Munich, Germany, a corporation of Germany
No Drawing. Application February 3, 1937, Serial No. 123,852. In Germany February 14, 1936
6 Claims. (Cl. 167—58)

1. Stanching and bleeding preventing remedies for external application to wounds, injection or oral administration containing a polymeric vinyl compound capable of swelling in water.

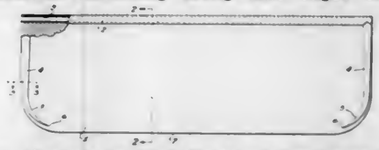
2,160,504
AUTOMOBILE GLARE SHIELD
Rex C. Jacobs, Detroit, Mich.
Application February 15, 1937, Serial No. 125,705
4 Claims. (Cl. 296—97)



1. In a glare shield formed of material in which the degree of transparency decreases with increasing thickness, a sheet formed of a thickness providing a predetermined degree of transparency, said sheet being reinforced at its upper edge by a comparatively thick portion integral with said sheet having continuations extending downwardly adjacent the vertical edges of the sheet, and a metal tube permanently imbedded in the thickened portion at the upper edge of the shield to reinforce the same and provide a bearing for a support.

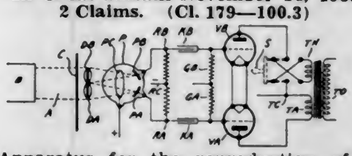
2,160,505
GLARE SHIELD FOR AUTOMOBILES
Rex C. Jacobs, Detroit, Mich.
Application June 16, 1937, Serial No. 148,549
8 Claims. (Cl. 296—97)

1. In a glare shield, formed of material in which the degree of transparency decreases with increasing thickness, a sheet formed of a thickness providing a predetermined degree of transparency, said sheet being reinforced at one longitudinal edge by a portion of comparatively thick section, said thickened portion having continuations extending along side edges of the



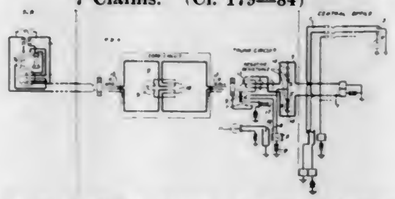
sheet, the side continuations curving inwardly of the sheet and terminating at points spaced inwardly of the fourth edge of the sheet, said continuations and curved portions being gradually tapered toward said terminal points, and a metal reinforcing tube imbedded in the thickened portion of the sheet and providing a bearing for a support.

2,160,506
REPRODUCTION OF SOUND FROM RECORD FILM
Otto Kurt Kolb, Chiswick, London, England, assignor to British Acoustic Films, Ltd., London, England, a British corporation
Application August 3, 1936, Serial No. 94,014
In Great Britain November 14, 1935
2 Claims. (Cl. 179—100.3)



1. Apparatus for the reproduction of sound records from films, comprising two photo-sensitive elements each responsive to one lateral zone of a film, a push-pull amplifying stage coupled with said elements and comprising two valves, and a change-over switch in the output circuit of said valves.

2,160,507
SIGNALING SYSTEM
Myron E. Krom, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 13, 1936, Serial No. 110,609
7 Claims. (Cl. 179—84)

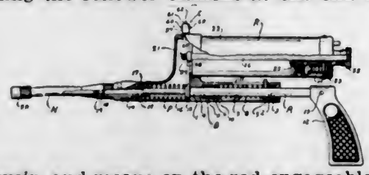


1. In a signaling system a line, a grounded source of alternating ringing current adapted to be connected to said line, a negative temperature coefficient resistance in bridge of said line, and an alternating current responsive device connected between the mid-point of said bridge and ground.

2,160,508
LUBRICATING DEVICE
Norman R. Krause, Racine, Wis.
Application January 11, 1937, Serial No. 119,963
12 Claims. (Cl. 221—47.3)

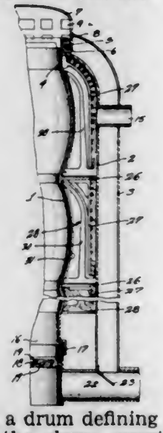
1. In a grease gun having a reservoir a rod

floatably mounted and extending substantially axially in the reservoir, a piston providing an opening through which the rod extends, said piston being slidable in the reservoir, a follower element, a spring arranged to urge said follower element into contact with the piston, means for latching the follower element at one end of the



reservoir, and means on the rod engageable with the piston for retracting the same and forcing the follower element into latching position against the spring pressure, packing interposed between the follower and piston and arranged to be forced into sealing contact with the rod by the spring pressure.

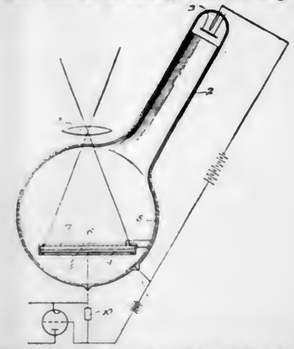
2,160,509
FURNACE
James A. Lindsay, Spokane, Wash.
Application June 7, 1937, Serial No. 146,820
5 Claims. (Cl. 126—99)



1. In a stove, a drum defining an air chamber, a shell about the drum providing a heating chamber, means for rotatably supporting said drum, manually operated means for rotating the drum, a cleaner in said heating chamber secured at its lower end to said shell and extending vertically in position for engaging the drum to clean the drum when the drum is rotated, and a second cleaner in the heating chamber secured at its upper end to said drum and extending downwardly in position for engaging the shell to clean the shell and moving between the shell and the first cleaner when the drum is rotated.

2,160,510
CATHODE RAY TUBE WITH PHOTOCELL MOSAIC
Rolf Möller and Ernst Ruska, Berlin-Zehlendorf, Germany, assignors to the firm Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application November 6, 1936, Serial No. 109,577
In Germany November 14, 1935
3 Claims. (Cl. 250—27.5)

3. A method for producing a photocell mosaic plate for a cathode ray tube, comprising covering an insulating plate with a refractory metal wire gauze, sputtering an oxidizable metal onto said insulating plate through said gauze to form a backing, oxidizing said metal backing, sputtering a photosensitive coating through said gauze on the oxidized metal backing, and lifting said gauze

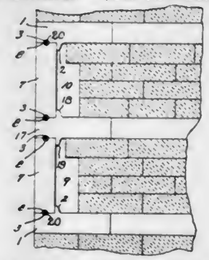


to a position spaced from and parallel to said plate with the openings in said gauze in alinement with the mosaic elements produced by sputtering material through said openings, whereby said gauze will enable unobstructed access of light to the mosaic elements from a direction normal to said plate.

2,160,511
RIBBON INK COMPOSITION
Samuel A. Neidich, Burlington, N. J.
No Drawing. Application December 22, 1936, Serial No. 117,182
8 Claims. (Cl. 134—31)

1. A ribbon ink, the ingredients of which include a finely divided pigment suspended in tricresyl phosphate, and a basic color base dissolved in diglycol laurate.

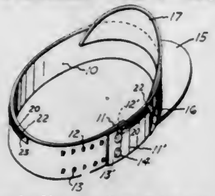
2,160,512
FURNACE WALL CONSTRUCTION
Arthur C. Pacific, Detroit, Mich.
Application March 13, 1937, Serial No. 130,616
4 Claims. (Cl. 72—102)



1. A furnace wall comprising a built-up wall having a pair of support blocks mounted in the inner face of the wall in vertical spaced relation, each support block being provided with a shoulder on the side toward the other support block and with a groove spaced from said shoulder, the portion of the built up wall between the support blocks being recessed, a shield block arranged to be fitted between the support blocks and against the shoulders thereon thereby closing the recess, the shield block being provided with a groove in the top and bottom edge arranged to align with the grooves in the respective support block, the

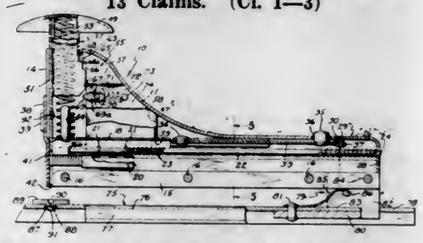
grooves being filled with refractory cement to key the shield block to the support block and the shield block when so mounted covering the recessed portion of the wall and forming a chamber behind the shield block.

2,160,513
CAP
Jacob Pasternak, Dallas, Tex.
Application January 25, 1937, Serial No. 122,096
6 Claims. (Cl. 2—195)



1. A cap including, a head band adapted to be varied in circumference to different head sizes, a cover, and fasteners for attaching the cover to the band, each fastener having one part affixed to the cover and its complementary part mounted on the band, some of those parts on the band being movable to various positions on the band whereby alinement of the complementary parts of each fastener may be accomplished regardless of the head size of the band.

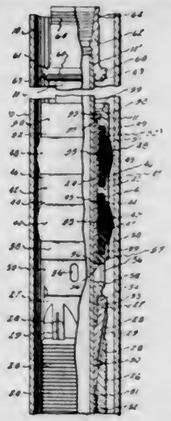
2,160,514
STAPLE DRIVING MACHINE
Fridolin Polzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Application February 20, 1937, Serial No. 126,794
13 Claims. (Cl. 1—3)



1. In a staple driving machine, a housing including side walls, a support bar in said housing between said side walls, said housing including a front wall stopping short of the upper side of said support bar, a spring plate secured to said front wall and forming a continuation thereof and comprising with the front end of the support bar opposite sides of a raceway, means for feeding staples along said support bar to the raceway, means for driving staples through said raceway, and said spring being free to yield outwardly away from the end of the bar under action of the staples to permit of staples of different wire thicknesses being driven through the raceway.

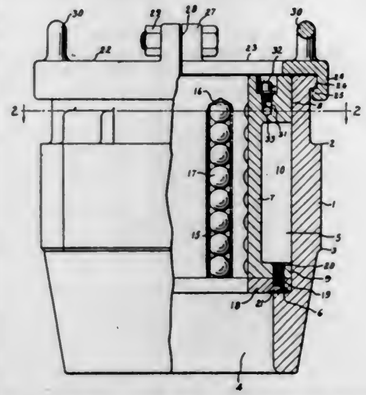
2,160,515
WELL PACKER
Albert Pranger, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware
Application June 8, 1936, Serial No. 84,041
3 Claims. (Cl. 166—12)

1. In a well packer, a mandrel tube having provision at its upper end for attachment to an operating extension, an annular valve head on said mandrel, near its upper end, a packer assembly sleeved on said mandrel with fluid flow passageways therebetween, said packer assembly comprising an upper valve seat collar and a lower thimble member, upper and lower rubber packer members secured respectively to the upper valve seat collar and the lower thimble member, an annular spacer member interposed between said upper and lower rubber packer members and supporting the upper and lower ends of said packer members, respectively, the meeting ends of said annular spacer member and said upper valve seat collar and said lower thimble member being spaced apart under the support of said rubber packer members in their normal form, said rubber packer members being endwise compressible and transversely expansible with such compression and expansion being limited by the meeting of the ends of said spacer member and said valve seat collar and thimble member, longitudinally disposed tie members interposed between said mandrel tube and said packer assembly whereby to hold said assembly in spaced concentric relation to said mandrel tube, said longitudinal tie members being engaged



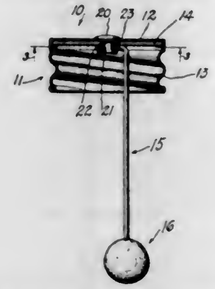
at their upper and lower ends, respectively, with said upper valve seat collar and said lower thimble member whereby to hold said packer assembly in its normal extended position but permitting endwise movement of the elements of said assembly whereby to compress and expand said rubber packing members, said thimble member having by-pass opening affording communication between the internal flow passageways of said packer and the space in the well casing outside of the packer, a slip head attached at its upper end to said thimble member whereby the one is movable by and with the other and the packer assembly is supported on said slip heads, means on said mandrel for releasably supporting said slip head in its normal raised position, slips slidably supported on said slip head whereby upon relative endwise movement of the slip head and slips said slips are wedged into gripping contact with the well casing, an anchor cage slidable endwise and rotatably on said mandrel and having provision for frictional engagement with the well casing, a pivotal link connection between said anchor cage and said slips, and means operable upon the relative rotation of said mandrel and said anchor cage for locking them against relative independent endwise movement and for releasing them from said lock, at will.

2,160,516
BUSHING FOR ROTARY TABLES
Albert Pranger, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware
Application April 30, 1937, Serial No. 139,960
3 Claims. (Cl. 255—23)



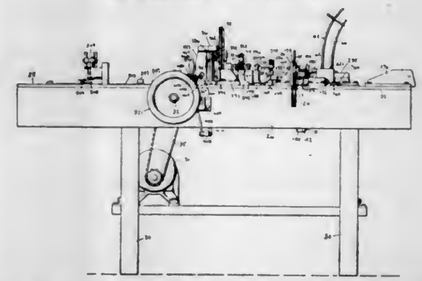
2. In combination, a bushing body, a plurality of cages inserted in said body, said bushing body being provided with a plurality of vertical channels, keys in said channels and extending between the ends of said cages so as to cause said cages to turn with said body, each of said cages being provided with a plurality of vertically extending channels having an opening less than the diameter of said channels, and communicating with the space between the inner faces of said cages and extending from the bottom of said cages to a point below the upper end of said cages, ball bearings in said channels in the cages, a ring secured to the lower end of said cages and serving as a means to prevent the ball bearings from falling out.

2,160,517
COMBINATION METAL CAP AND DAUBER
Harry Rabinowitz and Murray Rabinowitz, Brooklyn, N. Y.
Application April 26, 1937, Serial No. 138,888
2 Claims. (Cl. 91—67.2)



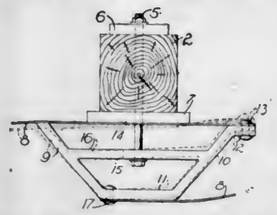
1. A device including a one piece metallic screw cap having a top disc-like portion and a depending threaded skirt portion, a liner of relatively soft material in the cap disposed against said top portion, the latter and the liner having alined perforations, a one piece wire member adapted to carry a dauber at one end and having its other end laterally bent and formed into a closed coiled portion of round wire in register with said perforations, and a rivet extending snugly through said perforations and said coiled portion and having a closed head externally sealingly engaging the top portion, the rivet having a hollow portion expanded over the coiled portion for securing the wire member, the coiled portion clamping the liner against said top portion about the perforation therein, and the rim portion of said perforation being downwardly deformed to provide an annular seat for the said head of the rivet.

2,160,518
PACKAGING MACHINE
Warren S. Reynolds, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application May 13, 1937, Serial No. 142,391
66 Claims. (Cl. 93—6)



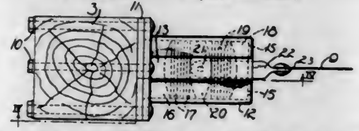
1. In a machine of the character described, means for delivering collapsed tubes comprising end closing flaps one at a time to a tube opening station, means for holding a tube during opening comprising a pair of fingers adapted to be pressed upon the upper surfaces of said end flaps and a supplemental pair of fingers adapted to engage the rearward edges of said end flaps, and devices acting to open the tube while it is so held.

2,160,519
ROAD GUARD FENCE
Robert R. Robertson, Chicago, Ill., assignor to The Translode Joint Company, Chicago Heights, Ill., a corporation of Illinois
Application May 24, 1937, Serial No. 144,424
10 Claims. (Cl. 256—13.1)



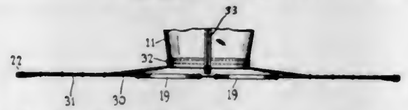
1. A road guard fence comprising a plurality of spaced posts, a plurality of resilient rail members arranged in spaced parallel overlapping relation, connecting shoes disposed between and having diagonal corners thereof secured to the overlapping ends of the rail members to hold the rail members offset with respect to one another, and supporting means on the posts for the ends of the rail members nearest the posts and the connecting shoes.

2,160,520
ROAD GUARD FENCE
Robert R. Robertson, Chicago, Ill., assignor to The Translode Joint Company, Chicago Heights, Ill., a corporation of Illinois
Application May 24, 1937, Serial No. 144,425
7 Claims. (Cl. 256—13.1)



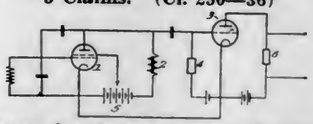
1. A road guard fence comprising a pair of end posts, friction plate units supported on the end posts, a rail unit supported by said units free from normal tensioning thereby, and means for supporting the rail unit at points intermediate the ends thereof.

2,160,521
GARMENT
Dorothy Rothstein, New York, N. Y.
Application November 5, 1938, Serial No. 238,985
3 Claims. (Cl. 2—71)



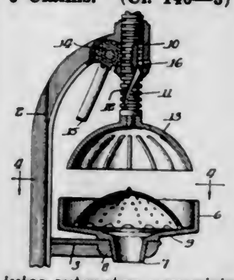
1. A play suit having a skirt portion made of a flat circular piece of cloth, having a central opening forming the waistline of the skirt portion, and a combination lining and bottom for said skirt made of a flat circular piece of cloth of substantially the same diameter as the diameter of the skirt portion, stitched to the underside of said skirt portion by a plurality of concentric circular lines of stitching, the central portion of said second circular piece of cloth being unstitched to the skirt and provided with a pair of openings symmetrically disposed about a diametric line, to receive the legs of the wearer.

2,160,522
METHOD FOR PRODUCING RECTANGULAR SHAPED SYNCHRONIZING IMPULSES
Johannes Schunack, Berlin-Charlottenburg, Germany, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application December 11, 1936, Serial No. 115,415
In Germany January 14, 1936
3 Claims. (Cl. 250—36)



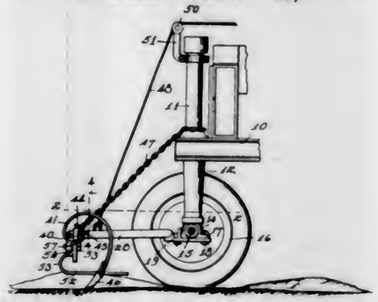
1. Means for generating synchronizing impulses of rectangular waveform comprising an electron discharge device having an input and an output circuit, means for applying an alternating potential of substantially sinusoidal waveform to said input circuit, a source of direct current voltage and an iron cored choke serially connected in said output circuit, said output circuit having a normal direct current component of current therethrough of a value to saturate said iron cored choke, a second electron discharge device having an output circuit including an impedance, and means for overmodulating said second electron discharge device with voltage pulses derived from across said source of direct current potential and said iron cored choke in series, whereby across said impedance will be developed voltage impulses of substantially rectangular waveform.

2,160,523
JUICE EXTRACTOR
Lewis H. Scurlock, Chicago, Ill.
Application July 17, 1937, Serial No. 154,145
6 Claims. (Cl. 146—3)



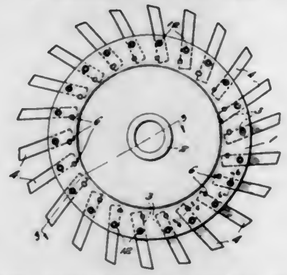
1. A fruit juice extractor comprising a movable compression member operated axially and rotatively by a rack and pinion device, the latter comprising a cylindrical rotary rack member having separate annular teeth spaced apart and each in effect being an annular ring, with separate annular spaces between them, a pinion mounted to engage said rack, the latter being adapted to rotate while held against axial movement by said pinion, so far as the relative engagement of the rack and pinion is concerned, means for operating said pinion, and provisions for causing rotation of the rack by the axial movement thereof, thereby causing said compression member to rotate while moving axially to compress the fruit.

2,160,524
TRACK LEVELING DEVICE FOR FARM TRACTORS
Andrew E. Sutherland, Madrid, Iowa
Application December 3, 1937, Serial No. 177,874
5 Claims. (Cl. 97—47)



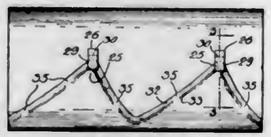
1. The combination of a tractor frame, a steering axle including steering wheels therefor, a bracket detachably secured to the center of said axle, an arm having one end pivotally connected to said bracket and its free end extending forwardly thereof to swing upwardly and downwardly, means carried by said tractor frame for limiting the downward movement of the free end of said arm, a cross arm carried by said arm, a convolute spring shank secured to each end of said cross arm, and an earth leveling tool on the lower end of each shank, each tool being supported in front of its corresponding steering wheels.

2,160,525
LUMBER RIPPING SAW
Samuel E. Thornton, Coeur d'Alene, Idaho
Application March 23, 1938, Serial No. 197,704
3 Claims. (Cl. 144—235)



1. A saw comprising a circular cutter head having inclined sockets leading inwardly from its peripheral edge face, teeth seated in said sockets, filler blocks in said sockets at opposite sides of said teeth, the teeth and blocks being adapted to be turned in the sockets to angularly adjust the teeth transversely of the peripheral edge face of the cutter head, each tooth and its companion blocks being formed with registering transversely extending recesses, the recesses of said blocks being of greater depth than the recesses of the teeth, keys passing through said cutter head and through the sockets and the recesses of the teeth and blocks, and set screws carried by the cutter head for engaging the blocks and frictionally holding the blocks and teeth in angularly adjusted position.

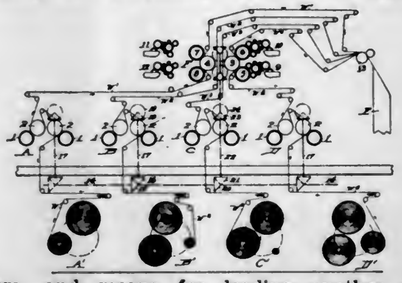
2,160,526
WEB-SPLICING METHOD
Paul L. Tollison, North Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application November 20, 1936, Serial No. 111,793
8 Claims. (Cl. 242—58)



2. The method of effecting a firm splice of a fresh web to a running web, which consists in introducing between the webs an area of non-drying glue and a separate area displaced therefrom of wet glue of the drying type, pressing the webs together to cause adhesion of one web to the other, and drying the glue of the drying type.

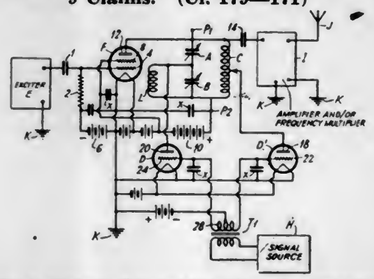
2,160,527
PRINTING PRESS
Isidor Tornberg, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application June 9, 1936, Serial No. 84,244
6 Claims. (Cl. 270—5)

3. The combination with a four color printing unit having two inside adjacent impression cylinders spaced apart, means for leading a web up between the impression cylinders thereof and entirely out of printing contact with both of



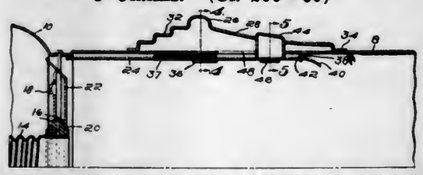
them, and means for leading another web through one of the color printing units.

2,160,528
PHASE OR FREQUENCY MODULATED TRANSMITTER
George Lindley Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1937, Serial No. 126,954
9 Claims. (Cl. 179—171)



1. In a system for modulating the wavelength of wave energy in accordance with controlling potentials, a circuit tuned to resonance at the mean frequency of said wave energy, said circuit comprising inductive reactance in one branch and capacitive reactance in another branch, a variable impedance shunting a part only of the reactance in one of said branches, a second variable impedance shunting a part only of the reactance in the other of said branches, means for impressing wave energy on said circuit, means for deriving wave energy from said circuit and means for varying said impedances in accordance with controlling potentials.

2,160,529
FLASHLIGHT SWITCH
Orville T. Wood, Clinton, Mass., assignor to Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts
Application May 8, 1937, Serial No. 141,541
5 Claims. (Cl. 200—60)



1. A circuit closer for a flashlight or the like comprising a movable switch element having a

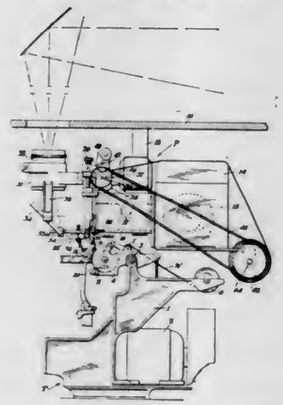
flexible extension, a fixed catch so disposed as to engage the flexible extension in the "off" position of the element and from which the element is releasable by flexing of the same, a finger piece to shift the element having a rearwardly presented sloping surface and a button disposed in the sloping surface and depressible as a part of the manual action incident to moving the finger piece to "on" position for flexing the extension to release the element from the catch.

2,160,530

METHOD OF AND APPARATUS FOR CONTROLLING MOVEMENT OF A CHARACTER-BEARING WEB

David F. Newman, Rockville Centre, N. Y., assignor to Trans-Lux Corporation, a corporation of Delaware

Application September 19, 1936, Serial No. 101,644
13 Claims. (Cl. 178—42)



1. The method of controlling movement of a web, which comprises typing all or a part of a line of information transversely of said web, feeding the web a line space at the conclusion of the line-typing operation, and moving the typed web toward or in a projection field during the period required for typing at least a substantial part of the suceeding line of information transversely on said web.

2,160,531

METHOD OF MAKING SHOES

Fred L. Ayers, Watertown, Mass.

Application February 9, 1938, Serial No. 189,628
9 Claims. (Cl. 12—142)



1. In the method of making a shoe which comprises thread lasting a shoe and forming a portion including the inseam threads for interlocking engagement with an inwardly directed marginal flange on the top face of an outersole, that step which comprises wiping the upper adjacent to the inseam about substantially the entire forepart against the last and continuing downwardly against the outer face of the inseam stitches previous to the application of the outersole.

2,160,532

ESTERS

Harold J. Barrett, Niagara Falls, N. Y., and Daniel E. Strain, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 2, 1936, Serial No. 99,131
14 Claims. (Cl. 260—83)

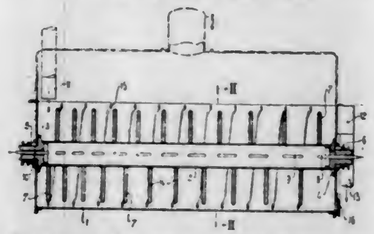
1. A glycerol mixed ester of a plurality of monocarboxylic acids, one of which is methacrylic acid and the remainder of which comprise soya bean oil acids.

2,160,533

APPARATUS FOR CONTINUOUSLY CRYSTALLIZING SOLUTIONS BY EVAPORATION OR COOLING

Richard Bonath, Bussum, Netherlands, assignor to Werkspoor N. V., Amsterdam, Netherlands

Application January 8, 1937, Serial No. 119,682
In the Netherlands January 11, 1936
7 Claims. (Cl. 127—16)



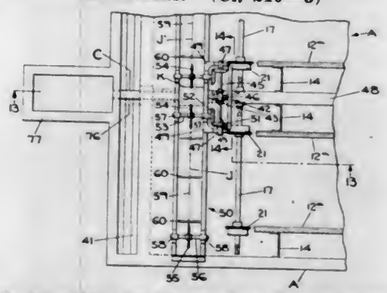
1. Apparatus for continuously crystallizing solutions by evaporation or cooling comprising a receptacle having a shaft revolubly mounted therein, and a series of hollow plates secured at substantially right angles to said shaft and through which a temperature changing medium flows, said plates being so arranged relative to one another that their mutual spacing increases towards the discharge end of the apparatus.

2,160,534

CONVEYER

Robert E. Briggs, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application December 8, 1933, Serial No. 701,549
11 Claims. (Cl. 210—3)



10. In sedimentation apparatus, the combination with a tank having a plurality of elongated settling compartments arranged side by side and having a common wall, of influent and effluent means for said tank structure, a scum receiver common to said compartments and supported by said common wall, scum conveyer mechanism

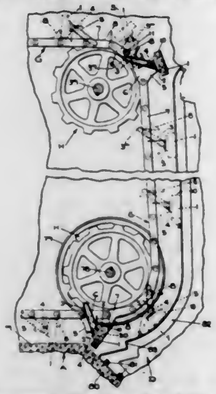
extending across the tank and operable to convey scum to said scum receiver in opposite directions perpendicular to the longitudinal axis of each individual compartment.

2,160,535

CONVEYER

Robert E. Briggs, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Original application December 8, 1933, Serial No. 701,549. Divided and this application December 9, 1937, Serial No. 178,924
19 Claims. (Cl. 210—3)



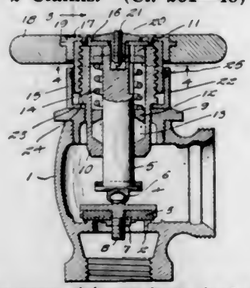
7. In a conveyer, the combination with draft means, of a material conveying flight of metal pivotally connected thereto, and abutment mechanism between the trailing side of said flight and said draft means to hold the flight for edgewise movement in an upward path of travel.

2,160,536

STICKPROOF RADIATOR VALVE

Charles F. Buning, Dayton, Ohio

Application June 24, 1938, Serial No. 215,676
2 Claims. (Cl. 251—48)



1. A valve comprising a body including an inlet and an outlet, a partition between the inlet and outlet and having an opening formed with a seat, a bonnet secured to the body and rising therefrom, a stem slidably mounted through the bonnet and extending into the body, a head swiveled on the stem and engageable with the seat, a cap including a skirt threaded on the outer portion of the bonnet, means mounted in the upper end of the stem and swivelly connecting the cap thereto, handle means secured to the cap for moving the head to open and closed position through the medium of the stem, packing between the stem and bonnet to provide a leak proof connection therefor, a packing nut threaded to the bonnet and interiorly thereof, a gland for the packing, a spring between the nut and gland for urging the latter against the packing, and means of connection between the nut and stem for adjusting the spring upon rotation of the stem.

2,160,537

ALCOHOL SOLUBLE RESINS

William H. Carmody, Pittsburgh, Pa., assignor to The Neville Company, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application May 21, 1938, Serial No. 209,371
11 Claims. (Cl. 260—81)

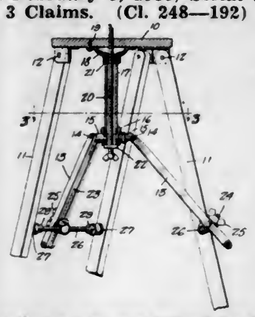
1. In a method of effecting polymerization of polymerizable materials of the type occurring in crude solvent naphtha, with concurrent involvement with a phenolic substance under the influence of activated clay, that step comprising removing water at a controlled rate from the mass during at least a period of such treatment.

2,160,538

CAMERA TRIPOD BRACE

Frank Cavuoti, Richmond Hill, N. Y.

Application February 8, 1938, Serial No. 189,404
3 Claims. (Cl. 248—192)



3. A brace for a camera tripod having a camera support and legs each formed of two longitudinal members, comprising a tube adapted to be secured at the upper ends to said support, brace sections pivoted at the upper ends to the lower end of the tube and each having a longitudinal slot, a bolt adjustably mounted in the slot of each brace section, threaded rods carried by each bolt extending in opposite directions from the bolt to said longitudinal members of the respective leg, socket members adapted to be secured to said longitudinal members of each leg, said rods being adapted to be received endwise in said socket members, and nuts on said rods adapted to be screwed tight against said socket members to removably secure said rods to the socket members.

2,160,539

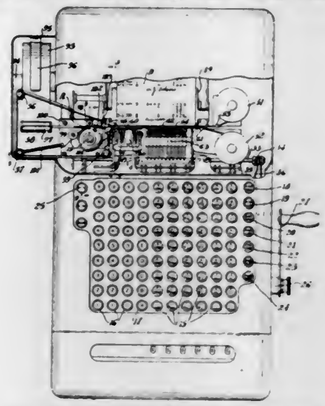
PAPER EQUIPMENT FOR CASH REGISTERS

Harold W. Clark, Alliance, Ohio, assignor to The McCaskey Register Company, Alliance, Ohio, a corporation of Ohio

Application July 13, 1936, Serial No. 90,282
5 Claims. (Cl. 197—132)

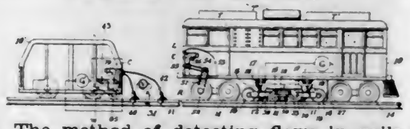
1. In a machine of the class described having a main shaft, depressible control keys, a platen and type bars, a feed roller for feeding a receipt strip between the platen and type bars in a direction parallel to the platen, screw means responsive to the operation of said control keys

and operated by the forward movement of the main shaft for operating said feed roller, and



means operated by the return movement of the main shaft for cutting the receipt strip.

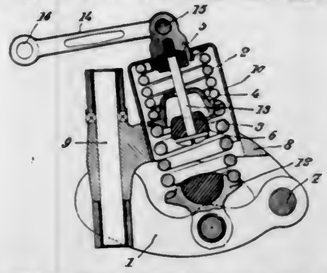
2,160,540
METHOD OF FLAW DETECTION
Harcourt C. Drake, Hempstead, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application April 12, 1935, Serial No. 15,946
5 Claims. (Cl. 175—183)



1. The method of detecting flaws in rails in track by means of flaw responsive mechanisms, which consists in operating a car carrying a flaw responsive mechanism along the rails, operating a moving chart on the car in predetermined speed relationship to the movement of the car, indicating by means of the flaw responsive mechanism the presence of a flaw in the rail by a mark upon the chart and an additional mark upon the rail in the region of the flaw, transferring the chart to a second car, operating the second car along the rails, moving the chart in relationship to the movement of the second car, adjusting the last-named relationship to synchronize the indications on the chart with the corresponding indications on the rail, and investigating by a second flaw responsive mechanism the points indicated as defective.

2,160,541
ELASTIC SYSTEM
André Dubonnet, Neuilly-sur-Seine, France
Application December 12, 1936, Serial No. 115,600
In Belgium November 19, 1936
2 Claims. (Cl. 267—20)

1. A suspension device for a wheel of a vehicle comprising a cylinder, means mounting said cylinder on the vehicle including means to permit the cylinder to move around a vertical axis with respect to the vehicle so as to permit steering of the wheel, a pair of coil springs of substantially equal diameter arranged in alignment at least partially within said cylinder, a wheel-carrying member operatively connected to said springs, a member between said springs and engaged thereby, and two stops secured to said cylinder on opposite sides of and engageable by said member, said member engaging one of said stops upon relative movement between said cylinder and wheel-carrier in one direction to

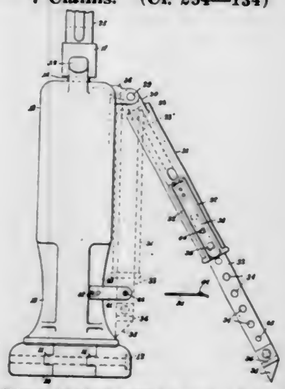


render one of said springs inoperative and engaging the other stop upon relative movement between said cylinder and wheel-carrier in the opposite direction to render said spring inoperative, said stops being located within the springs.

2,160,542
OXYGEN LIBERATING COMPOSITIONS
Kurt A. Gerson, London, England
No Drawing. Original application June 29, 1934, Serial No. 733,121. Divided and this application January 15, 1938, Serial No. 185,189. In Great Britain August 2, 1933
3 Claims. (Cl. 23—6)

1. As a new article of manufacture, an oxygen-liberating composition formed from alkali peroxide, alkali peroxide hydrate, and a hydrated copper oxychloride catalyst which becomes effective to supply water to the composition under the heat of reaction between said composition and exhaled air, the composition being characterized by liberating oxygen substantially immediately on contact with exhaled air and at a rate at least equal to the minimum oxygen replenishment value necessary in a closed breathing system, and by long continued oxygen evolution at such rate during such exposure to exhaled air.

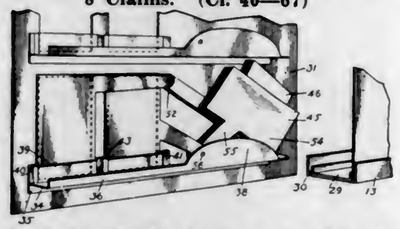
2,160,543
CABLE REEL JACK
Frank L. Gormley, Chicago, and Hugh S. Brown, Harvey, Ill., assignors to The Buda Company, Harvey, Ill., a corporation of Illinois
Application December 27, 1938, Serial No. 247,878
7 Claims. (Cl. 254—134)



1. A lifting jack having secured to the upper

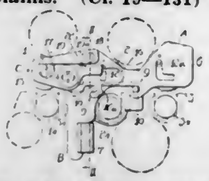
end of the ram, an L-shaped member of which a portion extends downwardly along one side of the casing of said jack and has integral therewith an outwardly extending projection, a swivel yoke on said projection, and a brace arm pivoted to another side of said casing.

2,160,544
SIGN
Ernest A. Hector, Jamestown, N. Y.
Application March 14, 1936, Serial No. 68,911
8 Claims. (Cl. 40—67)



1. In a sign for displaying commodity prices, a pair of frontal plates, a frame for receiving and mounting said plates in spaced opposed relationship, means securing said plates against removal from said frame, each of said plates having a plurality of windows located adjacent a commodity list, a group of numbered plates adjacent each of said windows, supporting means at the rear of said plates for said numbered plates, said numbered plates being individually movable from said supporting means into registry with said windows.

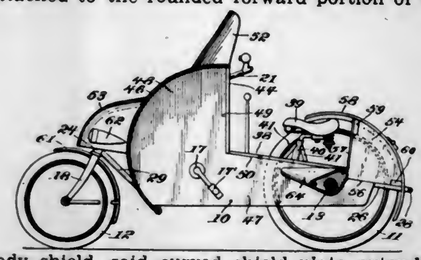
2,160,545
DRAFTING APPARATUS FOR SLIVERS FOR THE PRODUCTION OF SPUN YARNS
Kikutaro Honda, Toyonaka, Japan
Application February 12, 1937, Serial No. 125,486
In Japan February 25, 1936
4 Claims. (Cl. 19—131)



1. A cradle for draft spinning machines of the type having upper and lower coacting rolls, said cradle comprising an upper draft roller carrying frame having pivotally connected sections, one of said sections having a roller removably supported in a slot formed in the side walls thereof, means for yieldingly supporting the roller in contact with its lower coacting roller, and means for locking said roller in said slot.

2,160,546
PEDAL-CAR SHIELD
Paul A. Hurtado, Toledo, Ohio
Application September 2, 1938, Serial No. 228,226
5 Claims. (Cl. 296—78.1)

1. A pedal car of the character described, comprising a relatively narrow wheeled frame supporting a relatively low rider's seat and having propelling pedal cranks mounted thereon forwardly of the seat with the axis thereof approximately in the horizontal plane of the axis of the traction ground wheels of the vehicle, a relatively narrow and vertically disposed main body shield casing covering the adjacent frame portion of the vehicle, the forward end portion of said casing being rounded outwardly from top to bottom, and a correspondingly curved shield plate attached to the rounded forward portion of the

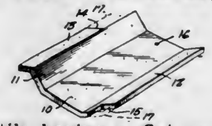


body shield, said curved shield plate extending within a range from top to bottom and with lateral projection on opposite sides of the body casing whereby to shield practically the entire body of the rider seated on the vehicle and straddling the body casing with his feet in engagement with the propelling pedal cranks of the vehicle.

2,160,547
PROCESS FOR DECOMPOSING BERYLLIUM MINERALS, PARTICULARLY BERYL
Gustav Jaeger, Neu-Isenburg, and Albert Wille, Frankfort-on-the-Main, Germany, assignors to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application November 24, 1936, Serial No. 112,614. In Germany December 12, 1935
10 Claims. (Cl. 23—19)

1. In a process for decomposing beryllium containing minerals, the step of heating such minerals in a finely divided form with material selected from the group consisting of sulfuric acid, bisulfates and compounds of bisulfates with sulfuric acid in the presence of a quantity of a fluorine compound not more than one-tenth of the quantity which would be required to react stoichiometrically with the beryllium present in the minerals to form beryllium fluoride in a closed vessel while maintaining a pressure in such vessel substantially above atmospheric, to convert the beryllium contained in the minerals substantially to beryllium sulfate.

2,160,548
ROOFING TILE
Fred H. Kawamura, Honolulu, Territory of Hawaii
Application September 15, 1937, Serial No. 164,041
1 Claim. (Cl. 108—10)



A roofing tile having a flat central portion, side flanges diverging from one face of the central portion at the longitudinal edges of the central portion, one side flange being provided with a wing sloped oppositely to the flange and of less width than the width of the other side flange, there being a tile locking notch formed in one side flange, there being a tile locking notch formed in said wing diagonally opposite the notch formed in said side flange and being less

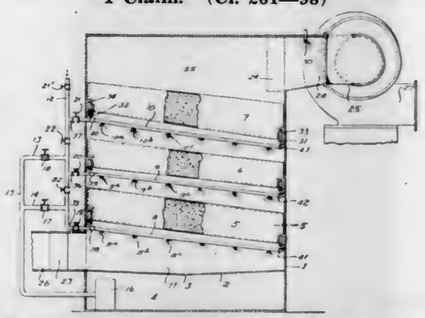
in width than the width of the wing, the arrangement being such that when the tiles are laid in courses the upper portion of the wing of a tile is adapted to be received in the notch in the side flange of a tile in the next upper course, and the lower part of the side flange of the tile is adapted to fit into the notch in the wing of a tile in the next lower course to provide lap joints.

2,160,549

AIR CONDITIONING DEVICE

Franz J. Kurth, New York, N. Y.

Application April 21, 1937, Serial No. 138,071
1 Claim. (Cl. 261—98)



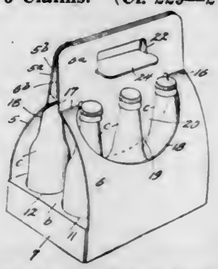
In a device of the type described, in combination with a closed casing having an air inlet and an air outlet, a plurality of beds of ceramic or like hygroscopic bodies disposed in said casing in superposed relationship at an inclination extending from one wall of said casing to the opposite wall and spaced apart to form chambers between them, a bottom-plate having a drain opening and forming with the lowermost of said beds a pre-moistening chamber, spray-nozzles in said chambers and in said pre-moistening chamber, means for supplying a liquid to said spray-nozzles, means for circulating air through said casing and said beds of material, a tray for supporting each of said beds, rollers on said trays, and guide rails secured to the walls of the casing to support said rollers, the casing having openings through which said trays are removable by rolling of said rollers on said guide rails, and closures for said openings.

2,160,550

BOTTLE CARRIER

Elmer H. Lupton, Ilchester, Md.

Application September 1, 1938, Serial No. 228,042
6 Claims. (Cl. 229—27)



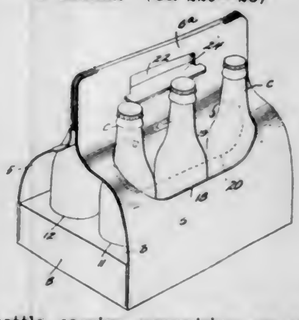
1. A bottle carrier comprising an elongated strip of flexible material creased transversely forming a bottom panel adapted to support two rows of bottles extending side by side transversely of the strip and two side panels adapted to fold upwardly along said crease lines, the end portions of the side panels having registering openings and constituting the handle portion of the carrier, means for spacing the bottles apart and for holding them in position on the bottom panel comprising a spacing strip of approximately the same dimensions as the bottom panel and having openings through which the lower parts of the bottles may extend and flaps hinged to the ends of the bottom panel and the spacing strip and adapted to support the latter strip above the bottom panel, and interlocking devices between said spacing means and said side panels for preventing endwise movement of the spacing means when the side panels are in their upright positions.

2,160,551

BOTTLE CARRIER

Elmer H. Lupton, Ilchester, Md.

Application October 25, 1938, Serial No. 236,940
3 Claims. (Cl. 229—28)



2. A bottle carrier comprising an elongated strip of flexible material creased transversely forming a bottom panel adapted to support two rows of bottles extending side by side transversely of the strip and two side panels adapted to fold upwardly along said crease lines, the end portions of the side panels constituting the handle portion of the carrier, means for spacing the bottles apart and for holding them in position on the bottom panel comprising a spacing strip of approximately the same dimensions as the bottom panel and having openings through which the lower parts of the bottles may extend and flaps hinged to the ends of the bottom panel and the spacing strip and adapted to support the latter strip above the bottom panel, and folding hinge connections between the ends of the flaps and the edges of the side panels adapted to fold inwardly between the spacing strip and the bottom panel and prevent endwise movement of said strip when the side panels are brought to their upright positions.

2,160,552

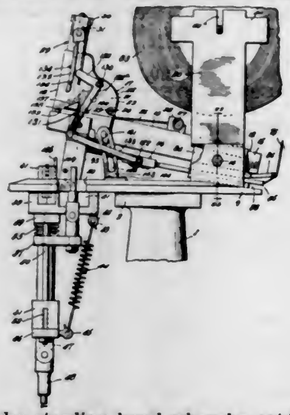
TAGGING MACHINE

Charles H. Maiben, Logansport, Ind.

Application February 19, 1938, Serial No. 191,561
14 Claims. (Cl. 93—88)

1. In a tagging machine, supporting means, a base plate carried thereby, a sub-base plate carried by the base plate at one end thereof, a clamping mechanism casing carried by the base plate and sub-base plate at one end thereof, staple clamping mechanism in the casing, a central sleeve carried by the sub-base plate, a guide sleeve slidably mounted on the central sleeve, upper and lower cross members movably connected with the guide sleeve, tie rods connecting said upper and lower cross members, an operating rod carried within the central sleeve, a stop plate carried by said central sleeve and having dogs therein, dog

operating pins carried by the upper cross member and adapted for engagement with said dogs, a stapling head, means swingingly connecting the stapling head with the base plate, said stapling head having a plunger and being adapted to contain staples, operating rods connecting the guide plate with the plunger, means associated with the stapling head and adapted for carrying tape, and means carried by the supporting means and engageable with the lower cross member, said last mentioned means being operable for shifting the cross members and guide plate downwardly for imparting downward move-



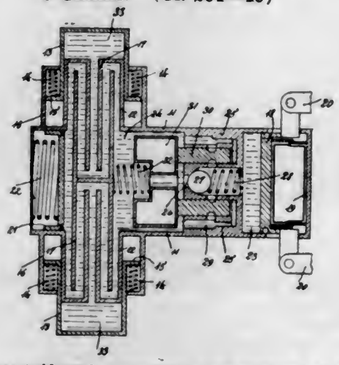
ment to the stapling head whereby said stapling head will be moved to its initial operative position clamping the tape and the goods to be stapled between said stapling head and said clamping mechanism casing, said last mentioned means being adapted to be further engaged for moving the upper cross member further downwardly with respect to the guide plate and engaging the dog operating pins with the dogs for shifting the operating rod and operating the clamping mechanism within the clamping mechanism casing for clamping a staple moved downward at downward movement of the plunger in engagement with the goods and tape.

2,160,553

CENTRIFUGAL GOVERNOR

Pietro Martinotti, La Garenne, France

Application June 3, 1936, Serial No. 83,245
In Italy June 17, 1935
6 Claims. (Cl. 264—19)



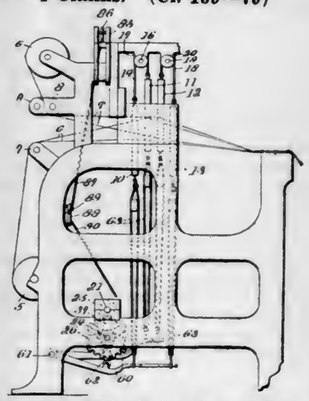
1. A centrifugal governor comprising a rotating element having a plurality of hollow radial extensions, elements telescopically mounted with respect to said extensions, forming a watertight movable closure therefor, a liquid mass within each chamber thus formed, responsive to the action of centrifugal force to displace said telescopically mounted elements, elastic means tending to force said telescopically mounted elements inwardly so as to hold the liquid mass to a constant volume, and a control element responsive to the displacements of said telescopically mounted elements, said elastic means being responsive to variations in the atmospheric pressure.

2,160,554

HARNESS CAM CONTROL

Edward Messer, Kannapolis, N. C., assignor to Cannon Mills Company, Kannapolis, N. C., a corporation of North Carolina

Application September 1, 1938, Serial No. 228,064
4 Claims. (Cl. 139—79)



1. A harness control for looms for weaving terry cloth comprising a gear rotated by a moving part of the loom, a double pick cam and a single pick cam continuously rotated by said gear controlling the harness frames for the ground warp, a cam disc also continuously rotated by said gear, a second gear also rotated by a moving part of the loom, freely mounted cams for controlling the operation of the harness frames for the pile warp, means for coupling said freely mounted cams with said second gear, means operated by said cam disc controlling said coupling means and means for rendering said means controlling said coupling means inoperative in order to reverse the operation of the harness frames for the pile warp.

2,160,555

PARTIALLY ESTERIFIED COMPOUNDS OF THE DIHYDRO-ESTRIN SERIES AND PROCESS OF MAKING SAME

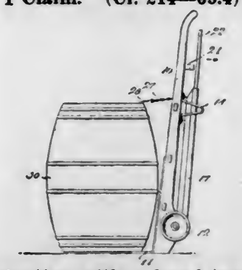
Karl Miescher, Riehen, and Caesar Scholz, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application July 19, 1938, Serial No. 220,122. In Switzerland November 20, 1936

15 Claims. (Cl. 260—397)

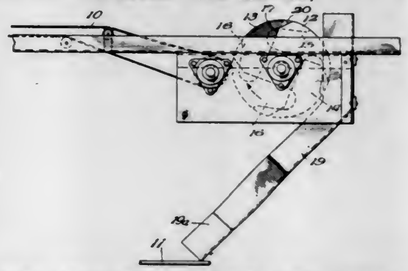
1. A process for the manufacture of partially esterified compounds of the dihydroestrin series consisting of estradiol, dihydro-equilenin and estriol having a free phenolic hydroxyl group, comprising treating a completely esterified compound of the said dihydroestrin series with a hydrolytically acting agent until the acyl radical attached to the phenolic hydroxyl group is eliminated.

2,160,556
HAND TRUCK
James E. Miller, Sherman, Tex.
Application August 5, 1938, Serial No. 223,355
1 Claim. (Cl. 214—65.4)



The combination with a hand truck having a frame, a lip, a wheeled axle, and a housing for the axle, of a two compartment housing, a pivotal connection between the lower end of the housing and the axle housing permitting of the housing being swung forwardly and rearwardly of the frame, as well as laterally of the frame, a keeper carried by the frame for securing the housing in the laterally swung released position, a web in the housing dividing the housing into separate compartments, a handle in one compartment, said web having a longitudinal slot therein, a tongue on the lower end of the handle projecting through said slot into the other compartment, a flexible member in said other compartment connected at one end to said tongue, and a hook on the free end of said flexible member for engaging a container and tilting the same upon the lip of the truck when said handle is swung rearwardly on its pivot relatively to the frame.

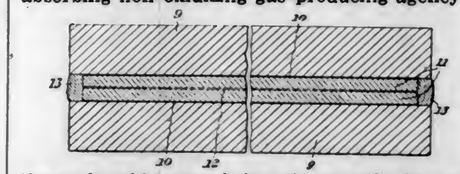
2,160,557
TRANSFER MECHANISM
Stanley F. Odell, Beacon, N. Y., assignor to Dutchess Tool Company, Beacon, N. Y., a corporation of New York
Application December 3, 1937, Serial No. 177,995
1 Claim. (Cl. 198—25)



A transfer roll for dough-handling apparatus having recesses in the periphery thereof each adapted to receive a single lump of dough, each recess having elongated leading and following side walls, the forward edge of the leading side wall of each recess being beveled and the following side wall of each recess extending forwardly circumferentially of the roll from the bottom of the recess to a point remote from said bottom.

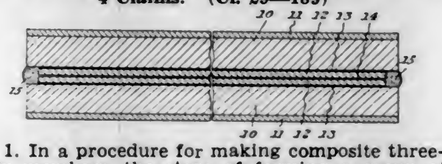
2,160,558
MAKING COMPOSITE METALS
John B. Orr, Jr., Edgeworth, Pa.
Application May 27, 1936, Serial No. 82,160
Renewed October 31, 1938
24 Claims. (Cl. 29—189)

12. In a procedure for making sheets, strips, bars, and/or plates of metal, the steps of forming a pack of metal members, providing an oxygen-absorbing non-oxidizing gas-producing agency in



the pack, said agency being of a quantity in excess of that needed for mechanical requirements, activating such agency, and working the pack.

2,160,559
MANUFACTURE OF COMPOSITE METAL MEMBERS
John B. Orr, Jr., Sewickley, Pa.
Application October 17, 1936, Serial No. 106,256
4 Claims. (Cl. 29—189)



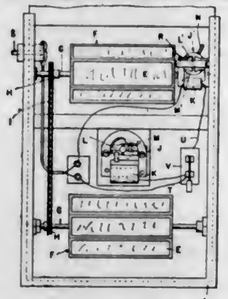
1. In a procedure for making composite three-ply members, the steps of forming a group of metal members, at least one member of which is a two-ply member whose plies have been hot-welded together in the presence of an oxygen-absorbing non-oxidizing gas-producing agency, at least partially closing off surface portions of the members to be plied from the atmosphere of which one is the two-ply member, providing an oxygen-absorbing non-oxidizing gas-producing agency adjacent the surface portions to be plied, heating the group to a hot working temperature and hot working the group until a third ply has been welded to the two-ply member.

2,160,560
DECORATION OF GLASS AND CERAMIC SHEETS, TILES, AND OTHER PRODUCTS
Frank Dean Parkinson, Blackpool, England
No Drawing. Application March 30, 1938, Serial No. 199,019. In Great Britain March 2, 1937
8 Claims. (Cl. 41—26)

1. The method of decorating glass and ceramic products, which consists in first chemically cleaning the product, then coating the cleaned product surface with a film of viscous solution of resin in an essential oil diluted with a volatile solvent, thereafter spraying upon said film a solid phase suspension liquid not freely miscible therewith so that drops of the suspension liquid will flocculate or coalesce into patches or group areas distributing themselves over the film in varied shapes, heights and sizes according to the extent to which parts of the film are wetted by said suspension liquid, and finally firing the product to volatilize the film and fuse the distributed suspension into the surface of the product.

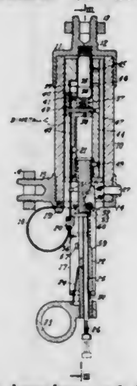
2,160,561
ADVERTISING DEVICE
Arthur St. Clair Perry, Detroit, Mich., assignor to Dual Message Clock Co., a corporation of Michigan
Application March 29, 1937, Serial No. 133,722
Renewed April 12, 1939
3 Claims. (Cl. 40—33)

1. In an advertising device, the combination of a casing having a window opening therein, a drum within said casing adjacent said opening, advertising panels on said drum, a shaft on which said drum is mounted, a continuously operating synchronous electric clock motor having the axis of its driven shaft transverse to the axis of said



drum, radially extending spokes mounted on the shafts of said drum and motor, said motor shaft being adapted to successively engage with the spokes of said drum shaft to impart to the latter a periodic rotation for successively registering said panels with said window opening.

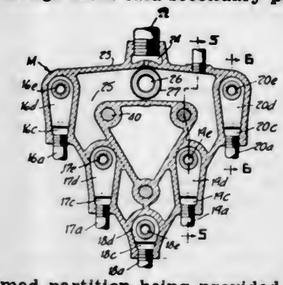
2,160,562
CIRCUIT BREAKER
Ralph R. Pittman and Carroll H. Walsh, Pine Bluff, Ark.
Application June 8, 1936, Serial No. 84,138
15 Claims. (Cl. 200—116)



1. In a circuit breaker, relatively reciprocable upper and lower contacts for opening and closing a circuit, resilient means urging said contacts to the open circuit position, a bimetallic strip bodily movable with the lower contact, a reciprocable operating rod, means including a latch mechanically connecting said rod to said strip for urging said contacts to engagment, latch means combined with said rod for normally maintaining said contacts in engagement, and means responsive to a downward movement of said first-named latch for unlatching said operating rod.

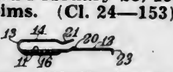
2,160,563
VALVE MANIFOLD
Frank P. Roesch, Chicago, Ill., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application August 10, 1938, Serial No. 224,104
4 Claims. (Cl. 277—50)

1. A valve body member having formed therein an endless main passage, said body member having a pressure fluid intake opening formed to receive a valve seat communicating with said main passage, said body member having a plurality of secondary passages, partitions within said body member separating said secondary passages from each other, a partition separating said main passage from said secondary passages, said



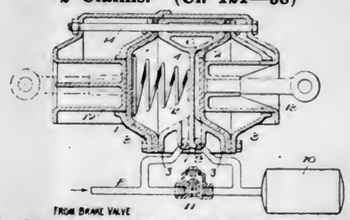
last-named partition being provided with a plurality of ports, each port being formed to receive a valve seat and providing communication between said main passage and one of said secondary passages, said body member being provided with a plurality of discharge openings, each of said discharge openings communicating with one of said secondary passages.

2,160,564
PAPER FASTENER
Edwin S. Roscoe and Frederick W. Ackerman, Rochester, N. Y., assignors to Yawman & Erbe Mfg. Co., Rochester, N. Y., a corporation of New York
Application January 22, 1934, Serial No. 707,727
Renewed February 28, 1939
5 Claims. (Cl. 24—153)



1. A keeper for use with the base and end tangs of a paper fastener, said keeper being formed of a single piece of sheet material folded lengthwise to form a top member and a base member in spaced relation to each other to receive tangs laterally, said base member having a lip projecting laterally therefrom beyond the free edge of said top member, the end portions of said base member as compared with the plane of said lip being spaced more remotely from the plane of said top member.

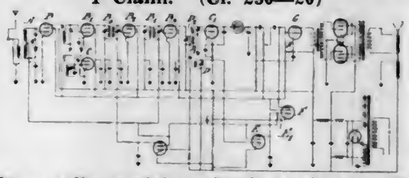
2,160,565
FLUID PRESSURE CYLINDER
Michele Savio, Turin, Italy
Application October 2, 1935, Serial No. 43,278
In Great Britain October 15, 1934
2 Claims. (Cl. 121—38)



1. A fluid pressure cylinder for actuating a brake or other device comprising a solid wall dividing said cylinder into a pair of chambers of substantially equal volume, a movable abutment in each chamber defining, in conjunction with the wall, the limits of said chamber, said

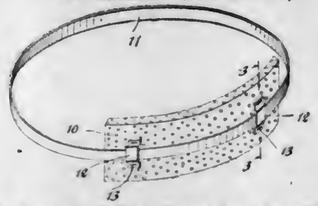
abutments being of equal area and subjected on one side to atmospheric pressure and on the other side to the pressure in said chamber, means for operatively connecting said abutments on the sides exposed to atmospheric pressure to the device to be actuated, resilient means in one of said chambers interposed between the abutment therein and said wall, means for charging both chambers with fluid under pressure to the same degree, and means exhausting one of said chambers while retaining the other charged for effecting combined movement of said abutments and device to be actuated.

2,160,566
SIDE BAND SUPPRESSED TUNING FOR RADIO RECEIVING SYSTEMS
Francis M. Schmidt, North Tonawanda, N. Y., assignor, by mesne assignments, to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation of Ohio
Application May 23, 1932, Serial No. 613,064
1 Claim. (Cl. 250—20)



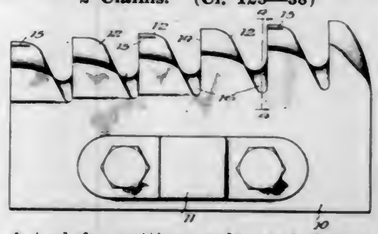
In a radio receiving circuit, a signal collecting device, a signal selection circuit, and means associated with said signal selection circuit for rendering the output system of the receiver inoperative when the selection circuit is resonant with a frequency at which no signal is impressed on said collecting device and for maintaining the output system inoperative when the signal selection circuit is adjusted to resonance with the more remote side bands of any signal impressed upon said collecting device, said means comprising loosely coupled tuning circuits including audions, one of said audions having its control grid connected to one of the tuning circuits and its plate connected to the control grid of the other audion, and an interposed resistance connected to bias one of the audions negatively beyond cut off to shut off the plate current in the other audion, and an audio tube having its control grid connected to the plate of said second-named audion and including a grid coupling resistance for energizing the plate current of said last-named audion.

2,160,567
SWEAT BAND
Willard F. Sterne, Buffalo, N. Y., assignor to American Allsafe Company, Inc., Buffalo, N. Y., a corporation of New York
Application September 17, 1937, Serial No. 164,347
4 Claims. (Cl. 2—171)



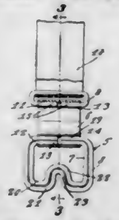
1. A device of the character described, comprising a sweat-absorbing pad of cellular, sponge-like material for engagement with the forehead of a wearer, an elastic head-engaging band applied thereto and extending over the front face thereof for retaining the pad in close contact with the forehead, and means for establishing a slip-like connection between said pad and said band to permit independent expansion and contraction of such parts relative to each other.

2,160,568
STONE WORKING TOOL
Gustave A. Swenson, Champaign, Ill.
Application November 2, 1938, Serial No. 238,464
2 Claims. (Cl. 125—38)



2. A tool for cutting raglet and drip grooves in the surfaces of stone, said tool having a series of teeth extending rearwardly thereof with the rearmost tooth corresponding in width and depth to that of the groove to be cut, a plurality of forward teeth being of less depth than said rearmost tooth, each tooth having a side cutting edge with the side cutting edges of said forward teeth inclined at different angles with respect to the corresponding cutting edge of the rearmost tooth, and with the foremost tooth having the greatest inclination and the degree of inclination of the several teeth decreasing rearwardly of the tool.

2,160,569
CLASP
Oral J. Ward, Colorado Springs, Colo.
Application May 25, 1937, Serial No. 144,690
2 Claims. (Cl. 24—248)

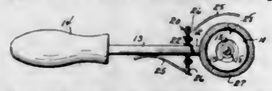


1. An apparel clasp comprising a support member and frames equipped with lower arms adapted to clamp an article of clothing therebetween, said frames pivotally connected to said member and disposed one within and entirely surrounded by the other to effect nesting of said frames in parallel relation when said arms are in clamping position, said member movable to effect relative movement of said frames in any direction to release said article from between said arms, said frames when in nested condition serving to establish clamping relation between said arms.

2,160,570
SHIELDED ROLL STIPPLER
David Welt, Bronx, N. Y.
Application September 14, 1938, Serial No. 229,942
2 Claims. (Cl. 101—376)

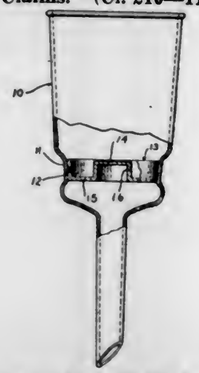
1. A stippler comprising a roller, a cylindrical

sheet of carpet material on the roller having a uniform knap throughout its entire cylindrical surface adapted to engage a freshly painted surface and stipple the surface uniformly, a U-shaped handle having one leg engaged axially in the roller to form an axis of rotation for the roller and terminating short of one end of the roller to permit the roller and carpet material to be juxta-posed against projections and permit the stippling to be done close to the projections,



the other leg of the handle being substantially one-half the length of the roller and terminally directed laterally at a right angle to provide a shank of the handle for manipulating the roller, a clamp carried by the last named leg and disposed near said shank, and shield plates hinged to said clamp above and below the last named leg and adapted to be selectively rocked to operative position to overlie the roller, and adapted to be selectively rocked to released position against said shank.

2,160,571
GLASS FILTER AND METHOD OF MAKING IT
Harry Clifford Bates, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application May 28, 1936, Serial No. 82,341
3 Claims. (Cl. 210—112)



1. In a filter assembly suitable for use in filtering acids and like corrosion liquids, a hollow glass body for receiving fluids to be filtered, a hollow glass filter element of porous material having a tapered wall through the medium of which it is supported on a tapered wall portion of said body, and an upwardly extended hollow portion of said element which increases its filtering surface and also serves as a portion of the element which may be seized to enable grinding of the tapered wall surfaces to obtain a fluid tight fit between them.

2,160,572
PROCESS FOR STABILIZING FATTY OIL POLYMERS
Egon Eichwald, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 27, 1937, Serial No. 139,337. In the Netherlands May 9, 1936
5 Claims. (Cl. 87—9)

1. In the process of producing a storage stable concentrate of a polymerized fatty oil obtained by catalytic polymerization of an unsaturated polymerizable fatty oil, the steps of digesting said polymerizable fatty oil with a polymerization catalyst under conditions to produce a polymer which is miscible with mineral lubricating oils in substantially all proportions, diluting the resulting polymer with 5 to 300 volume per cent of a mineral lubricating oil and separating the catalyst from the resulting solution.

2,160,573
PROCESS OF FRACTIONATING MINERAL OILS
Bernard Sutro Greensfelder, San Francisco, and Monroe Edward Spaght, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 27, 1938, Serial No. 227,174
14 Claims. (Cl. 196—13)

1. A process for separating mineral oils containing several hydrocarbon components having different solidification temperatures, comprising the steps of chilling said oil to a separation temperature to solidify a component thereof, and separating said solidified component from a component having a lower solidification temperature in the presence of separating diluent containing petroleum nitrogen bases separated from a mineral oil distillate boiling between 115° C. and 330° C.

6. A process for dewaxing wax-bearing mineral oils, comprising the steps of chilling said oil to a dewaxing temperature to solidify wax, and separating the wax from the oil in the presence of a dewaxing diluent containing petroleum nitrogen bases, separated from a mineral oil distillate boiling between 115° C. and 330° C.

2,160,574
MANUFACTURE OF CARBON TETRACHLORIDE
Bruno Hennig, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application April 26, 1938, Serial No. 204,463. In Germany May 10, 1937
4 Claims. (Cl. 260—658)

1. The process for manufacturing carbon tetrachloride which comprises reacting an aliphatic compound of the group consisting of saturated and unsaturated hydrocarbons containing 2 to 3 carbon atoms and the chlorination products thereof with chlorine at a temperature above 400° C. to about 700° C. in the presence of a body presenting a large surface, the chlorine being in excess to the extent of 20 to 40 percent. above the proportion theoretically necessary for producing carbon tetrachloride.

2,160,575
RECOVERY PROCESS
Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 13, 1935, Serial No. 54,329
10 Claims. (Cl. 260—541)

1. In a process for the separation of an aliphatic organic acid from its complex with a boron-fluorine compound, which complex has different constant boiling compositions at different pressures, the step which comprises effecting the separation by distillation under at least two different pressure stages, and alternately conducting the distillation first under one stage and then under the other stage until the desired separation has been effected.

2,160,576
PREPARATION OF ANHYDROUS BORON FLUORIDE
Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 10, 1936, Serial No. 105,154
17 Claims. (Cl. 260—541)

1. A process of preparing substantially anhydrous boron fluoride, which comprises reacting orthoboric acid with hydrofluoric acid and separating boron fluoride from the resulting product by distillation of the resulting complex under at least two different pressure stages.

2,160,577
LUBRICANT
Oscar L. Maag, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
No Drawing. Application September 11, 1937, Serial No. 163,351
3 Claims. (Cl. 87—9)

1. A lubricant which consists of the following ingredients in substantially the following proportions by weight, namely, 200 parts of white lead, 50 parts of an ingredient selected from the group consisting of elemental sulphur, sulphurized lard oil, sulphurized fish oil, sulphurized corn oil and sulphurized cottonseed oil, 51 parts of an oil selected from the group which consists of mineral oil, rapeseed oil, cottonseed oil, corn oil, lard oil, sperm oil and whale oil, and 9 parts of an ingredient selected from the group consisting of hexachlorethane, chlorinated naphthalene, chlorinated diphenyl, chlorinated petroleum compounds and tri-cresyl phosphate.

2,160,578
PRODUCTION OF ALIPHATIC AMINES
Willi Schmidt, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application May 14, 1934, Serial No. 725,479. In Germany May 18, 1933
11 Claims. (Cl. 260—293)

1. The process of producing amines, which comprises treating an aliphatic nitrile containing nitrogen only in the nitrile group and containing more than 6 aliphatic carbon atoms in the molecule with a gas comprising essentially hydrogen in the presence of a hydrogenation catalyst and of a non-aromatic amine containing at least one reactive hydrogen atom attached to the amino nitrogen and at most 6 carbon atoms in the molecule.

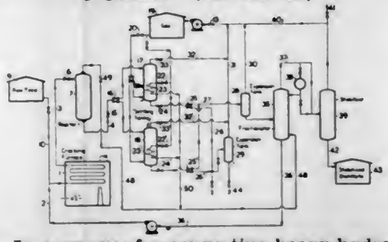
11. The process of producing amines, which comprises treating an aliphatic nitrile containing nitrogen only in the nitrile group and containing more than 6 aliphatic carbon atoms in the molecule with a gas comprising essentially hydrogen in the presence of a hydrogenation catalyst and piperidine.

2,160,579
INSECTICIDE
Friar M. Thompson, Jr., Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 28, 1937, Serial No. 139,612
9 Claims. (Cl. 167—24)

1. An insecticidal composition comprising an ether of a terpene and an alcohol.

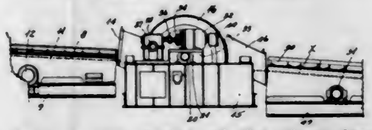
4. An insecticidal composition comprising the additive ether of ethylene glycol and turpentine, a contact insecticide extracted from a plant body and a carrier.

2,160,580
CRACKING HYDROCARBON OIL
Sijbren Tijmstra, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 20, 1936, Serial No. 69,791
3 Claims. (Cl. 196—50)



1. In a process for converting heavy hydrocarbons into lighter oils, comprising the steps of subjecting the heavy oil to pyrogenous cracking conditions, subjecting the cracked oil containing a substantial portion of the gasoline components and heavier components in a separating zone to the precipitating action of a quantity of low molecular hydrocarbons having less than four carbon atoms at a separating temperature at which said low molecular hydrocarbon is in the para-critical state, at a pressure at which said gasoline components and heavier components are reduced to the liquid state and at which a sufficient quantity of said low molecular hydrocarbons are dissolved in the liquid cracked oil to cause the formation of two liquid phases having different specific gravities, separating said liquid phases, fractionating hydrocarbons contained in the separated lighter phase in a fractionating zone, the improvement consisting of heat-interchanging the cracked hot oil with an incondensable hydrocarbon gas in said separating zone, thereby heating the gas and cooling the oil to the separating temperature, passing the heated gas into said fractionating zone as a heating medium therefor, separating a heavy hydrocarbon fraction from the fractionating zone, and subjecting said heavy fraction to cracking.

2,160,581
TURN-OVER DEVICE
George W. Behnke, Durand, Mich.
Application April 1, 1937, Serial No. 134,256
7 Claims. (Cl. 22—1)

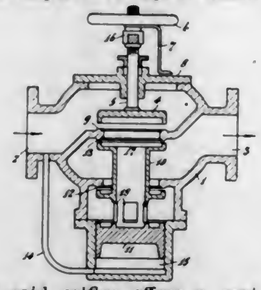


4. A turn-over device of the class described and including a frame, a rotatable drum, pivots fixed in the drum, opposed work carrying cradles pivotally hung on said pivots, stops for limiting the pivotal movement of said cradles, means for driving said drum, and means for automatically controlling the starting and stopping of said driving means.

2,160,582
CONTROL DEVICE
Antoine Johan Brugma, The Hague, Netherlands
Application May 17, 1937, Serial No. 143,036
In the Netherlands May 28, 1936
5 Claims. (Cl. 137—152.5)

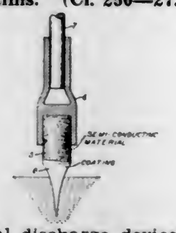
1. A constant flow control device, comprising

a casing having inlet and outlet chambers and an orifice affording communication between said chambers, a handvalve to set a limited passage at one side of the orifice, and a cylinder connected to the said casing in which a piston works, to which piston is connected a hollow column, protruding from the cylinder into one of said chambers, having a valve edge to which the other



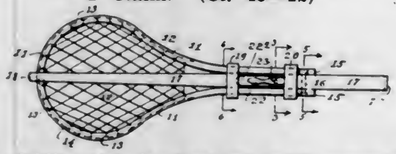
side of the said orifice offers a seat and the inner space of which column communicates with one side of the cylinder, the other side of the cylinder communicating with the other of the said chambers, to keep the volume of flow of the fluid at a constant value, independently of the pressures prevailing in front of the said device and behind the same.

2,160,583
POOL-TYPE DISCHARGE DEVICE
John M. Cage, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 13, 1937, Serial No. 130,760
8 Claims. (Cl. 250—27.5)



1. An electrical discharge device including an anode, a mercury pool cathode and a starting electrode having a tip portion which is in contact with the mercury during normal operation of the device, said starting electrode comprising a formed core of silicon carbide which is covered superficially at said tip portion with a substance having the characteristics of the products of decomposition of iron nitrate.

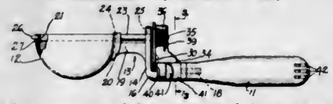
2,160,584
FOLDING FISH LANDING NET
Charles J. Garrett, Newport, Vt.
Application April 25, 1938, Serial No. 204,002
1 Claim. (Cl. 43—12)



A folding fish landing net outfit comprising a frame, a net bag secured thereto, a handle bar

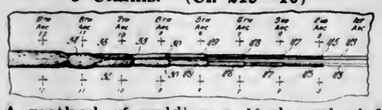
pivotally connected at the inner end thereof to said frame, to be turned in a plane transversely to the plane of said frame, a pivot pin for said connection, the outer end of said bar extending in said transverse plane over and beyond the part of said frame which is remote from said pin when the net outfit is folded, said bar thereby being inclined to the plane of said frame when the said net outfit is folded, and substantially inelastic bands for securing the inner end of said bar to parts of said frame which are adjacent thereto, said bands being wedged on to said bar in its inclined position and to the said adjacent parts of said frame when the outfit is folded.

2,160,585
ICE CREAM DISHER
Harry C. Gessler, Brooklyn, N. Y.
Application May 25, 1938, Serial No. 209,893
3 Claims. (Cl. 107—48)



1. An ice cream disher comprising a bowl open along a plane, a frame secured to the bowl and having an arm at an angle to said plane, a resilient curved scraper blade for the interior of the bowl, a spindle connected to one end of the blade for oscillating the same, the other end of the blade having a portion removably journaled in said bowl at a point remote from the frame arm, a pinion having an integral hollow shaft journaled in said arm, said pinion lying on a side of the arm remote from the bowl with its hollow shaft projecting toward the bowl, the hollow shaft having at its free end an integral outward projecting lip engaging said arm at a side thereof opposite to said pinion to rotatably retain the latter, said spindle having an end portion projecting into the hollow shaft, the latter and the spindle having axially extending irregularities nonrotatably engaging the hollow shaft with the spindle, the latter being otherwise freely axially removable from the hollow shaft on springing said blade, said lip constituting an annular reenforcement for the hollow shaft at its point of engagement with the spindle, and means for actuating said pinion, the blade and its spindle being removable as a unit for replacement by springing the blade and without disturbing the remaining parts or mechanism.

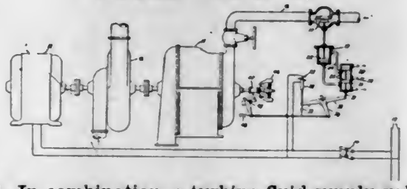
2,160,586
TUBE WELDING
Joseph H. Gettig and George Spatta, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 10, 1937, Serial No. 163,191
5 Claims. (Cl. 219—10)



1. A method of welding a Y-shaped cleft of a tubular blank which comprises passing said cleft through an elongated heating zone, laterally pressing said blank to close said cleft approximately at the center of its movement through said zone, and further laterally pressing the cleft edges of said blank toward each other at a rate such that as the molten metal reaches the parallel surfaces of the cleft, the cleft is substantially

closed to provide a support and to force molten metal upwardly in the flaring portion of said cleft to produce puddles of molten metal of a depth such that they extend above the cleft and the trailing edge of the puddles cascade rearwardly toward the unfilled portion of the cleft as the blank moves forwardly.

2,160,587
CONTROL SYSTEM
Martin Gieseler, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application April 2, 1937, Serial No. 134,590
In Germany July 24, 1936
2 Claims. (Cl. 60—6)



1. In combination, a turbine fluid supply valve, means including an actuating lever for opening and closing the valve, condition responsive means for moving the lever to valve opening and closing positions, a secondary driving member having a lost motion connection with the actuating lever, the actuating lever being movable independently of the secondary member when the member is in a first operating position and being positively biased to valve closing position when the secondary member is in a second operating position, means including a trip mechanism for normally retaining the secondary member in its first operating position, and means responsive to a predetermined turbine speed for releasing the trip mechanism and causing the member to be moved to its second operating position.

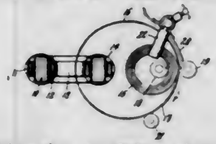
2,160,588
ELECTROMAGNETIC INDUCTION APPARATUS AND METHOD OF MAKING THE SAME
John C. Granfield, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 30, 1937, Serial No. 123,249
22 Claims. (Cl. 175—356)



17. The method of producing an assembled magnetic core and winding structure comprising the steps of winding a strip of magnetic sheet material flatwise into a coil, passing the outer end of said coil through the winding structure and back to the coil to form a loop around one side of the winding structure, rotating the coil to rewind it around one side of the winding structure, securing the end of the rewound strip against motion relatively to the winding structure, and tightening said coil to form a compact magnetic core tightly surrounding the side of the winding structure.

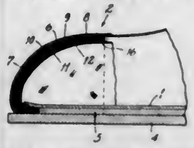
20. The method of producing an assembled magnetic core and winding, said method including the steps of winding a strip of magnetic sheet material into a coil of many superposed turns one outside the other, unwinding the strip from said coil and simultaneously rewinding it about one side of the winding and the axis of the coil, maintaining during the operation a clearance between the strip and the winding and tightening the rewound strip into a compact cylinder.

2,160,589
APPARATUS FOR MAKING STRIP WOUND MAGNETIC CORES
John C. Granfield, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 30, 1937, Serial No. 123,250
10 Claims. (Cl. 242—4)



1. A machine for applying strip wound magnetic cores to winding structures comprising means for holding the winding structure in position to be wound, means for supporting a coil of magnetic strip, said means being spaced away from the winding structure a sufficient distance to permit a relatively large loop of strip from said coil to be threaded through said winding structure, said means comprising oppositely rotating rollers engaging the inside and outside of the coil of strip to rotate the coil and drive the strip to unwind the coil and rewind the strip material into the larger loop, and means for biasing the oppositely rotating rollers toward each other to grip the turns of strip located between the rollers.

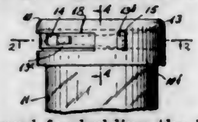
2,160,590
SHOE STIFFENER
John C. Guhman, University City, Mo., assignor to Wright-Guhman Company, St. Louis, Mo., a corporation of Missouri
Application September 11, 1937, Serial No. 163,339
5 Claims. (Cl. 36—68)



1. A material for securing a member of Celluloid or like plastic to a leather member and protecting the leather from the action of solvents for said plastic, comprising an intermediate layer of material impervious to solvents for said plastics, an outer or leather engaging layer of adhesive that adheres both to leather and to said intermediate layer and an innermost layer of material that adheres to said impervious material and is pervious to softened plastic.

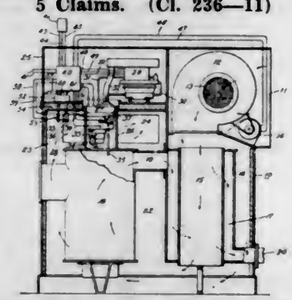
2,160,591
AIRTIGHT COVER FOR CONTAINERS
Souren Kazanjian, Woodside, Long Island, N. Y.
Application September 1, 1938, Serial No. 227,879
5 Claims. (Cl. 215—96)

1. An air tight cover for a container, comprising an outer cap for engaging over the neck of a container, an inner cap of relatively flexible material within said outer cap and adapted to engage over the neck of said container, a band of flexible metal between said caps and encircling said inner cap and adapted to clamp the inner cap tightly against said neck, cooperative means between the



ends of said band for holding the band in a very taut condition, and cooperative means between said band and outer cap for holding same fixed in relatively adjusted positions.

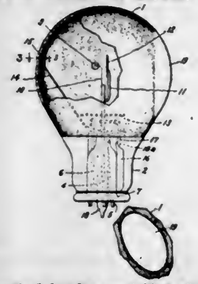
2,160,592
TEMPERATURE REGULATING SYSTEM
William J. King, East Orange, N. J., assignor to General Electric Company, a corporation of New York
Application December 8, 1936, Serial No. 114,802
5 Claims. (Cl. 236—11)



1. In a heat medium circulating system, the combination including means operable for heating the medium, thermostatic means for starting and stopping operation of said heating means in accordance with predetermined temperature conditions, means for circulating the medium, means including a thermal responsive element jointly responsive to the temperature of said medium and the temperature of said heating means and having normal upper and lower temperature limits for respectively starting and stopping operation of said circulating means, an electric heater adjacent said thermal responsive element and connected to be energized under the control of said thermostatic means for lowering both said temperature limits only during operation of said medium heating means, and means including a heat regulating shield adjacent said electric heater and said thermal responsive means for modifying the relative effects of the temperature of said medium, the temperature of said heating means, and the temperature of said electric heater on said thermal responsive element upon the starting and stopping of operation of said heating means.

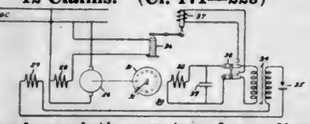
2,160,593
PHOTOELECTRIC TUBE
August J. Kling, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 18, 1937, Serial No. 164,507
2 Claims. (Cl. 250—165)

1. A photo-electric device comprising an envelope, a body of vaporizable metal supported within the envelope, a heater in thermal contact with the body of metal and effective when energized to vaporize the same, thereby to cause deposition of the metal on the walls of the envelope, a shield positioned near said heater for reflecting vapor away from a portion of the envelope to leave a window, and common means intermediate be-



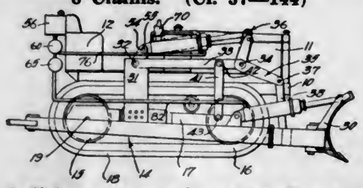
tween the metal body and the shield for conducting current to said heater and for directing particles vaporized from said body and intercepted by the means away from the window.

2,160,594
ALTERNATING-CURRENT DYNAMO-ELECTRIC MACHINE
Ernst W. Krebs, Berlin-Reinickendorf, Germany, assignor to General Electric Company, a corporation of New York
Original application April 1, 1936, Serial No. 72,196. Divided and this application November 22, 1938, Serial No. 241,849. In Germany April 10, 1935
12 Claims. (Cl. 171—223)



6. A speed-regulating system for a direct-current motor comprising in combination with said motor, an alternating-current generator driven by said motor, said generator having an output winding, a condenser connected to said winding, an auxiliary field winding for said motor, and rectifying means interposed between said generator and said field winding, said generator being adapted to be self-excited by leading current drawn therefrom and said condenser being of such capacity as to draw a current corresponding to the excitation current of said generator at a predetermined generator speed.

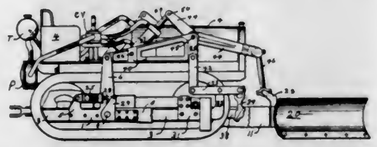
2,160,595
HYDRAULICALLY OPERATED SCRAPER AND THE LIKE
Charles Le Bleu, Los Angeles, Calif., assignor to Emsco Derrick and Equipment Company, Los Angeles, Calif., a corporation of California
Application May 21, 1935, Serial No. 22,528
8 Claims. (Cl. 37—144)



2. A dirt moving machine including a tractor, a material moving member disposed transversely of the tractor, means articulately supporting the

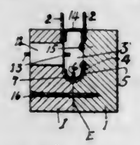
material moving member with relation to the tractor whereby the blade and the articulate support may be free to be bodily raised or lowered, or to be longitudinally tilted as a unit, a pair of hydraulic rams of equal fluid capacity having pressure chambers on both sides of their pistons, said rams being carried by the tractor and connected to the articulate support, a source of fluid under pressure therefor, connections between the source of fluid under pressure and the rams, and connections between the rams whereby the pistons of the rams may simultaneously move in opposite directions due to the delivery of the pressure fluid to one of the rams and the delivery of displaced fluid from said first mentioned ram to the opposite end of the second mentioned ram, and lever means connecting operative parts of the ram with the material moving member, said lever means acting to compensate for differences in movement of the moving parts of the two rams due to the differences in volumes of the pressure fluid introduced into one ram and the displaced fluid introduced into the other ram.

2,160,596
TRAIL BUILDER, BULLDOZER, AND THE LIKE
Charles Le Bleu, Los Angeles, Calif.
Application July 6, 1935, Serial No. 30,113
5 Claims. (Cl. 37—144)



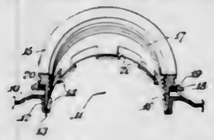
1. In a device of the class described including a main frame adapted for connection to a vehicle; an implement carrying head piece, means connecting said head piece to said main frame for transverse tilting movement relative thereto; power operated control means connecting said head piece and said vehicle and operable to transmit power for collectively raising and lowering said head piece, for independently raising and lowering either end of said head piece or for simultaneously raising one end of said head piece while lowering the opposite end; and manually operable control means for said power operated control means to cause said power operated control means to operate.

2,160,597
WINDSHIELD DEFROSTER
Henry F. Maloney, Newton, Kans., assignor of one-half to August K. Klein, Halstead, Kans.
Application February 11, 1938, Serial No. 190,059
1 Claim. (Cl. 20—40.5)



A structure of the character described comprising a windshield for motor vehicles formed by two identical sheets of glass spaced apart throughout their areas, a frame for said sheets, spacing means in the frame for said sheets formed by a resilient sealing material, said sheets and said frame forming an air tight chamber, a metallic substantially U-shaped channel member positioned in the lower part of the frame for substantially its entire width, an electrical heating element arranged in said channel and extending for the major part of the length of said channel, means for insulating said heating element from the channel, said heating element positioned in said channel in a manner to lie wholly below the lower portion of the windshield frame, a light guard arranged entirely over the channel member for completely covering the said heating element, said guard having closely arranged, relatively fine openings formed therein over its entire surface, said openings being of such size as to prevent the passage of light rays therethrough from the heating element, a valve member for establishing communication from the exterior to the interior of the heating chamber, said valve comprising a cylindrical casing open at both ends, a piston sliding therein, leaf springs engaging the opposite ends of the piston for normally holding it intermediate the length of the cylinder, oppositely arranged longitudinal ports formed in the walls of the piston, said piston when in one position under the action of a contraction of the air in the heating chamber permitting the flow of air to said heating chamber, said piston when in the opposite position under the action of an expansive movement in the heating chamber permitting air to be discharged from said heating chamber, substantially as shown and described.

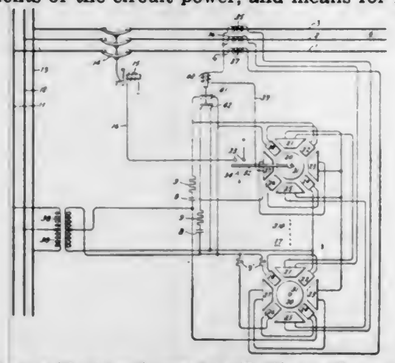
2,160,598
METHOD OF MOUNTING A SPUT IN A METAL CONTAINER
Earle Gordon Melrath, Philadelphia, Pa., assignor, by mesne assignments, to American Flange & Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois
Application February 9, 1937, Serial No. 124,814
9 Claims. (Cl. 29—148.2)



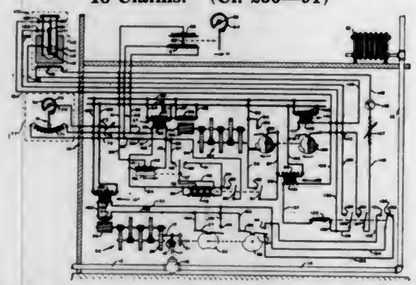
1. The method of mounting a sput in the bung hole of a metal container defined by a collar extending from a wall of said container and said collar having an inturned serrated flange at the inner end thereof, which comprises inserting a sput, provided with a toothed inner end, into the bung hole and rotating said sput until the teeth enter the serrations, and then turning the teeth over the inner edge of the collar to secure the sput in place.

2,160,599
PROTECTIVE APPARATUS
Andrew J. McConnell, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York
Application November 30, 1938, Serial No. 243,177
14 Claims. (Cl. 175—294)

1. In combination with a polyphase alternating current circuit, an electroresponsive device comprising a movable member, a first means for exerting on said member an effect dependent on a function of the positive and negative phase sequence components of the circuit power and a second means adapted to exert on said member an effect dependent on a different function of the positive and negative phase sequence components of the circuit power, and means for rendering said second means effective only on the occurrence of an unbalanced fault on the circuit.

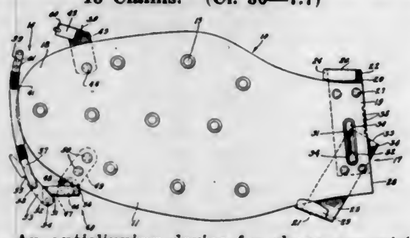


2,160,600
HEATING SYSTEM
John T. Midyette, Jr., Scarsdale, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 23, 1935, Serial No. 23,035
18 Claims. (Cl. 236—91)



7. In a system of the class described, temperature changing means for a building, means for controlling the temperature changing means to maintain a normal temperature during the day time in the building, and means including an outdoor temperature responsive means for controlling the temperature changing means to maintain a temperature in the building during the night time that varies inversely as the outdoor temperature.

2,160,601
ANTISLIPPING DEVICE
George A. Moriarty, San Diego, Calif.
Application October 26, 1938, Serial No. 237,134
18 Claims. (Cl. 36—7.7)



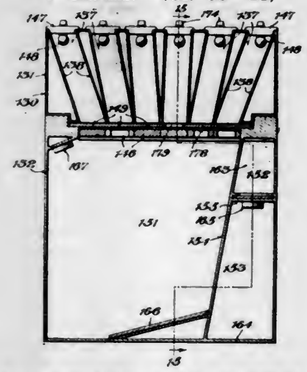
1. An antislipping device for shoes comprising a body member, antislipping means on said body member; pivotally and slidably related means for securing said body member to a rear portion of a shoe sole at opposite sides thereof; interengaging means associated with said securing means for limiting relative sliding and pivotal movement therebetween; and resilient means engaging the toe portion of the sole, drawing said securing means into gripping engagement with the sole and maintaining said interengaging means in operative relation.

2,160,602
DISPENSER
William F. Nagel, Clermont, Fla., assignor to The Air Konditioning Company, Clermont, Fla., a corporation of Florida
Application March 10, 1937, Serial No. 130,019
5 Claims. (Cl. 65—45)



5. In combination, a dispenser for finely divided material susceptible to caking or sticking when and after being exposed to moisture comprising a container having a mouth, a cap forming a closure for said mouth, said cap comprising a hygroscopic material, said cap also being provided with an opening affording a communication between the interior and exterior of the container.

2,160,603
COMPAROMETER
Richard G. Sagebeer, Wilmington, Del.
Application September 1, 1937, Serial No. 161,916
8 Claims. (Cl. 88—14)



1. In a photometric device for comparing predetermined sets of data, the combination of a housing having two sets of compartments of two compartments each with a light source in one compartment of each set, an opening between the compartments of each set to permit light to pass from one to the other, a plurality of perforated rails arranged side by side to fill the space between the compartments of one set of compartments, a plurality of differently perforated profile cards, including a standard profile card, adapted to be placed one at a time in cooperative relation with the rails, means supporting said rails and card for relative adjustment to positions such that the rail and card openings are just out of registration, whereby no light passes from one compartment to the other, a

millivoltmeter, a light sensitive cell in the compartment of each set not containing the light source, said millivoltmeter and cells being connected in an opposed series circuit for indicating the relative amounts of light in said compartments, and an adjustable shutter between the compartments of the second set for varying the size of the opening therebetween and restoring the millivoltmeter to its original reading when the standard profile card is replaced by another card with a resulting difference in registration of the rail and card openings and a change in the relative amounts of light in the two compartments.

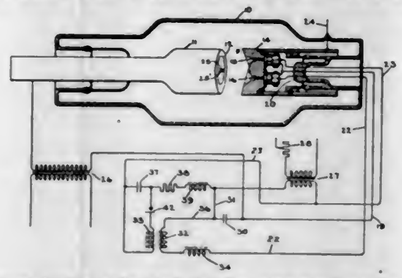
8. A method for comparing predetermined sets of data to determine their closeness of fit to a given set of data, which comprises arranging a series of orifices in parallel relation in accordance with the given set of data in such a way that their relative positions determine the magnitudes of the items of data, arranging another set of orifices in relation to the first set so that they are just out of registration and the passage of flux through said first-mentioned orifices is blocked, substituting a different set of orifices arranged according to a different set of data for said first-mentioned set to permit the passage of an amount of flux, depending on the different arrangement of the orifices, adjusting a master orifice which is independent of said other orifices to change the amount of flux passing through it by an amount sufficient to compensate for the differences in the orifices until a zero reading is obtained on an indicating means which shows the relative magnitudes of the flux passing through the first-mentioned orifices and said master orifice, noting the amount said master orifice was adjusted, and successively substituting other sets of orifices arranged according to different sets of data for said second set to permit passage of different amounts of flux, adjusting the master orifice by an amount sufficient to compensate for the differences in the orifices until the zero reading is obtained on the indicating means for each of said successive sets of orifices, noting the amount said master orifice was adjusted each time, and comparing the amounts of said adjustments to determine the amounts of flux which passed through the various sets of orifices.

2,160,604
PROCESS OF PRESERVING EGGS
Howard H. Stamper, Moberly, Mo., assignor to F. M. Stamper Company, Moberly, Mo., a corporation of Missouri
No Drawing. Application April 25, 1938, Serial No. 204,101
3 Claims. (Cl. 99—196)

1. In the process of preserving eggs, the operation of quick chilling the same in a weak solution of caustic soda preliminary to cold storage thereof.

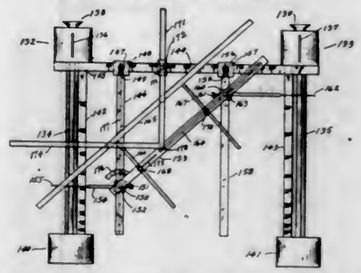
2,160,605
REGULATING SYSTEM
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 18, 1936, Serial No. 116,602
13 Claims. (Cl. 250—103)

1. In an X-ray apparatus, a target, means including a first cathode filament for producing a small focal spot on said target, means including a second cathode filament operable independently of the first for producing a larger focal spot on the target, a common source of potential connected in circuit with both of said filaments, a saturable reactor in series with said second filament, a condenser in series with said first filament, inductance means including said saturable reactor in parallel with the condenser and in series with said first filament, said inductance



means being adapted to be resonant with the condenser during periods of saturation of the reactor and means for saturating said reactor in accordance with a rise in said potential above a predetermined value.

2,160,606
VISCOSITY ANALYZER
Albert G. Thomas, Lynchburg, Va.
Application April 9, 1937, Serial No. 135,881
8 Claims. (Cl. 265—11)

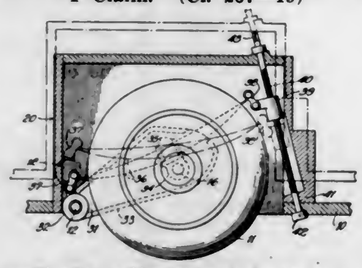


1. A viscosity testing device comprising a pair of spaced parallel viscosity scales, a temperature scale bridging the viscosity scales, a pair of members slidably adjustable along the temperature scale to points corresponding with the temperatures at which the viscosity readings are taken, a slider mounted upon each of said temperature members and each adapted to be positioned in accordance with the viscosity indication upon its respective viscosity scale, a bar extending across said temperature members and slidably and pivotally connected to said sliders to assume an inclined position indicative of the slope of the temperature-viscosity curve.

2,160,607
EXTRACTION PROCESS
Willem J. D. van Dijck, The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 1, 1935, Serial No. 29,383
7 Claims. (Cl. 196—13)

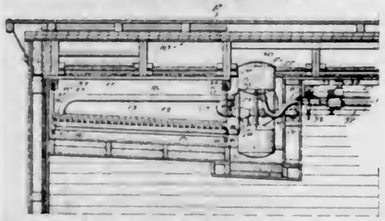
1. The process for refining a hydrocarbon oil which comprises separating an oil into fractions of different chemical constituents by extracting said oil with a solvent comprising a carbon substituted derivative of a sulfur ring compound having as a substituent a radical containing a carbonyl group.

2,160,608
INDEPENDENT WHEEL SUSPENSION FOR VEHICLES
Edgar E. Watson, Waterloo, Iowa, assignor to The Metalectric Corporation, Waterloo, Iowa, a corporation of Iowa
Application April 14, 1937, Serial No. 136,767
1 Claim. (Cl. 267—19)



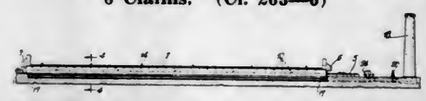
A vertically adjustable independent wheel spring suspension for the opposite sides of a trailer-type road vehicle body, comprising a pair of substantially triangular shaped plates, common mounting means pivotally connecting an inner end portion of each of said plates to opposite sides of said body for free swinging movement in a vertical plane, manually adjustable spring suspension means connected to a supporting wall of said body and to the outer free end portion of each of said plates, said adjustable means extending through the wall of said body and being operable at will to cause relative movement between said plates on their mounting to vertically adjust an intermediate portion of each plate relative to its pivotal mounting, and a wheel rotatably mounted on said intermediate portion of each plate for movement therewith in adjusting and yieldably supporting said vehicle body.

2,160,609
REFRIGERATING DEVICE
Henry C. Williamson, Chicago, Ill., assignor to Charles B. White, New York, N. Y., and Fred G. Hoblitzell, Toronto, Ontario, Canada, jointly as trustees
Application May 5, 1937, Serial No. 140,908
10 Claims. (Cl. 62—91.5)



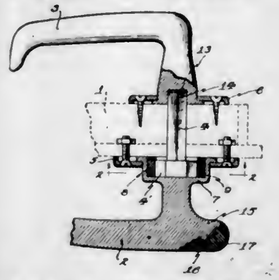
1. In a refrigerating device, a condenser, an evaporator communicating therewith, a container below the condenser, a check valve between the condenser and the container adapted to be closed when the pressure in the container is higher than in the condenser, a distributing chamber above said container and the evaporator, and communicating with the container by a passageway terminating near the bottom of said container, said distributing chamber communicating by another passageway with the evaporator, a valve controlling the communication between condenser and evaporator, and means controlled by the liquid in the container for opening and closing said valve.

2,160,610
METALLURGICAL FURNACE
Albin G. Witting, Gary, Ind.
Application May 20, 1938, Serial No. 209,127
6 Claims. (Cl. 263—6)



1. In combination with an elongated furnace provided with inlet and outlet openings adjacent each end of the furnace, and with means to heat the same with hot gaseous products of combustion, and with flue outlets at each end of the furnace adjacent said inlet and outlet openings, and with means to regulate the proportionate distribution of gases exhausted through each flue outlet, means to cool said furnace when said heat supply means is shut or, said means comprising a cooling chamber and means to exhaust the hot gases of combustion remaining in the furnace from one end of the furnace into said cooling chamber and to return the cooled gases to the opposite end of the furnace under a pressure at least sufficient to prevent the inflow of air through said inlet and outlet openings.

2,160,611
AUTOMOBILE DOOR HANDLE
Grover C. Alexander, Chicago, Ill.
Application December 3, 1936, Serial No. 113,991
5 Claims. (Cl. 292—348)

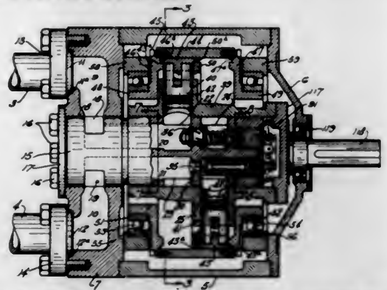


1. A device of the class described comprising a shaft and a handle connected frictionally in lengthwise coaxial alinement for relative turning step-by-step, one of said members having a shouldered face and the other said member having a serially apertured face of resilient yielding material cooperatively disposed thereagainst to accommodate such turning, said resilient material being sufficiently yielding to resume its normal form after such turning.

2,160,612
HYDRAULIC TRANSMISSION
Maxwell Alpern, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 1, 1934, Serial No. 709,284
19 Claims. (Cl. 121—60)

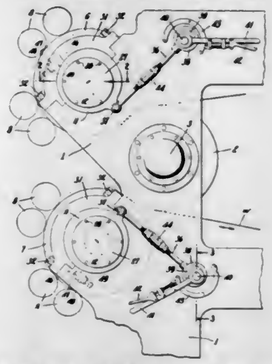
1. A reversible fluid motor comprising, a stationary central valve, a cylinder body having a plurality of series of cylinders rotatably mounted on said valve, a piston operating in each of the cylinders of each of said series, means provided in said central valve for rendering effective or ineffective one of said series of cylinders during rotation of said motor in one direction, and additional means provided in said central valve for

rendering effective or ineffective the said one series of cylinders during rotation of said motor in the reverse direction.



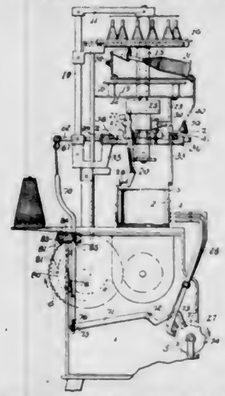
19. A variable speed fluid motor, comprising a stationary central valve and a cylinder body rotatably mounted on said valve, said cylinder body having a plurality of series of radially disposed cylinders, a piston operating in each cylinder of each of said series, a plurality of sets of ports in said central valve, one set of said ports being provided for each series of cylinders, a passage in said central valve through which fluid under pressure is supplied to said cylinders, a second passage in said valve for returning said fluid to the source of supply, partition means between said sets of ports, intake and discharge ports provided in said partition, valves normally closing said ports whereby but one series of cylinders is normally effective, automatic means for actuating said valves to open position when the pressure of the fluid exceeds a predetermined value thereby rendering effective the other of said series of cylinders, auxiliary valves operatively associated with said normally ineffective series of cylinders through which air and fluid leakage may discharge, and means for closing said auxiliary valves when said normally ineffective series of cylinders is rendered effective.

2,160,613
ROTARY PRINTING PRESS
Curtis S. Crafts, Oak Park, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application November 19, 1936, Serial No. 111,571
16 Claims. (Cl. 101—247)



16. In a rotary printing press in combination, a printing couple comprising a plate cylinder and an impression cylinder, eccentric bearings for the plate cylinder mounted in the frame and rotatable to regulate the impression squeeze, a variably positionable device for stopping the rotational movement of said eccentric bearings to determine the amount of the impression squeeze, said device being located approximately in the common axial plane of the two cylinders, and on the opposite side of the plate cylinder axis from the impression cylinder, and means for rotating said bearings until stopped at impression by said stop device and for subsequently applying rotative pressure to the bearings against said stop device in the opposite direction to the movement of the plate cylinder at the line of impression contact of said cylinder.

2,160,614
ADDED THREAD-FEEDING ATTACHMENT FOR CIRCULAR KNITTING MACHINES
Clayton A. Fenstermacher, Reading, Pa., assignor to Schuylkill Hosiery Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application December 11, 1936. Serial No. 115,337
13 Claims. (Cl. 66—133)

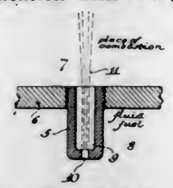


1. In a knitting machine having a circle of needles and a relatively fixed striping thread carrier operatively mounted above the latter, a guide finger for an added thread mounted to move radially across the circle of needles, means including a swingable plate mounted on said carrier ring for moving said finger independently of said striping thread carrier to a non-feeding position inside said circle of needles, and to a position outside the latter in feeding relation to all the needles of said circle, there being a fixed relation between said guide finger and needles when said guide finger is in non-feeding position, and a relation of relative rotation between said needles and guide finger when the latter is in feeding position.

2,160,615
BURNING FLUID FUEL
William Ferguson, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated, a corporation of Delaware
Application April 8, 1936, Serial No. 73,319
2 Claims. (Cl. 158—99)

1. In combination with a furnace combustion chamber and a fuel gas supply chamber, a gas burner tip comprising a chambered body open at one end and provided at the other end with a gas orifice, the open end of said body being seated in a supporting wall between the furnace combustion chamber and the gas supply chamber and delivering directly to said combustion chamber

for mixing with air therein, the margin of the open end of said tip being approximate the inner surface of said supporting wall, the opposite end of the tip, which is provided with the orifice, being in communication with the gas supply, the

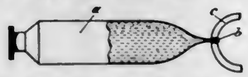


said orifice being positioned at a point sufficiently remote from the place of combustion in the furnace chamber to secure the protection of the orifice by the walls of the chambered body from the heat of the furnace.

2,160,616
HAIRCLOTH
Eugène Aimé Constant Alfred Gheysens and Paul Constant Louis André Gheysens, Iseghem, Belgium
No Drawing. Application May 6, 1936, Serial No. 78,194. In Belgium May 8, 1935
2 Claims. (Cl. 154—46)

1. A porous hair-cloth resilient in all directions and adapted for use by tailors, composed of a sheet of textile fabric having disposed thereon a thin layer of resilient hair promiscuously scattered in all directions and spaced droplets of latex securing the individual hairs to one another and to the fabric and serving to oppose the tendency of the hair to work itself through the cloth.

2,160,617
PROCESS FOR CLOSING COLLAPSIBLE TUBES BY WELDING
Gustav Kellner, Munich, Germany, assignor to Erhard Zacharias, New York, N. Y.
Application April 20, 1936, Serial No. 75,304
1 Claim. (Cl. 113—121)



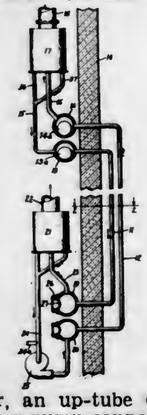
A method of closing the foot end of the filled collapsible tubes containing cosmetics able to generate a gas or vapor when being heated to an appropriately high temperature, said method comprising transforming the foot end of the tube into flat shape so that the opposite wall portions are in direct contact with each other, and applying to said flat end pressure and such an amount of heat that not only said wall portions are welded or fused together but also the said end is distended by the gas or vapor evolved by the heated contents of the tube and a gurgling noise indicates that said gas or vapor is penetrating the tube contents and is mixing the components with each other, whereafter the heating is discontinued.

2,160,618
COMB BRUSH
Elsa Kreutzig, Jersey City, N. J.
Application December 21, 1938, Serial No. 246,929
10 Claims. (Cl. 132—86)

1. A comb brush, comprising a comb body having a hollow back portion open along one end and one side and comb teeth projecting from another side, a cover for closing said open side and open end and having brush bristles extending into said hollow back portion and being slidably mounted, and means for holding said cover extended on said comb body.



2,160,619
MERCURY BOILER
Anthony J. Larrecq, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 27, 1935, Serial No. 8,463
Renewed October 26, 1938
4 Claims. (Cl. 122—488)

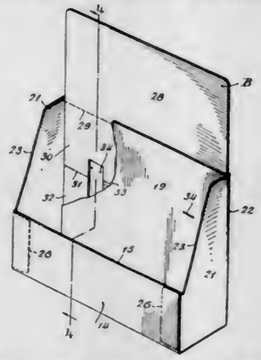


1. In a boiler, an up-tube exposed to heat, means including a pump connected to the lower end of the up-tube for forcing liquid to be heated therethrough, a first liquid-vapor separating device connected to the upper end of the up-tube for separating the mixture of liquid and vapor discharged from the up-tube, a down-tube exposed to heat having an upper end connected to the liquid-vapor separating device for receiving liquid therefrom, means including a second liquid-vapor separating device connected to the lower end of the down-tube for separating the mixture of liquid and vapor discharged therefrom, said pump having an inlet conduit connected to the second liquid-vapor separating device, and means for discharging vapor from both devices, the first liquid-vapor separating device being located at a level above that of the tubes.

2,160,620
CONTAINER
Harold L. Myers, Morristown, N. J.
Application June 3, 1936, Serial No. 83,183
6 Claims. (Cl. 206—44)

2. A device of the kind described comprising a container consisting of inner and outer front panels foldably connected with and lying in surface relation to each other, bottom panels foldably connected with each of said front panels respectively and lying in surface engagement with each other, inner and outer rear panels foldably connected with each of said bottom panels respectively and lying in surface relation to each other, side members foldably connected with said outer rear panel and projecting toward said front

panels, locking tabs foldably connected with said side members and extending between said front panels, bottom flaps foldably connected with said side members and lying in surface engagement with one of said bottom panels, means for fastening said rear panels in said surface relation, an independent member slidably mounted



between said rear panels and adjustable relatively to said container to constitute a cover therefor and to an upright position relatively to said container to constitute a display card, and means on said independent member co-operating with said fastening means to limit the sliding movements of said independent member.

2,160,621

METHOD FOR THE PRODUCTION OF SACCHAROSONIC ACIDS AND THEIR SALTS

Heinz Ohle, Hohen Neuendorf, near Berlin, Germany

No Drawing. Application December 22, 1933, Serial No. 703,636. In Germany December 23, 1932

15 Claims. (Cl. 260—344)

1. A method for the production of saccharosonic acid compounds of the group consisting of the free acids and their alkali metal, alkaline earth metal, and tertiary amine salts which comprises subjecting compounds selected from the group of compounds consisting of esters, lactones and acylated lactones of osonic acids to the action of agents of alkaline reaction corresponding to the above salts, while maintaining the reaction of the reaction mixture near the neutral point.

2,160,622

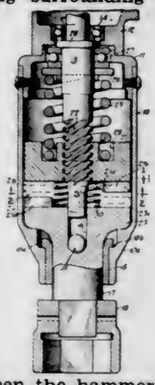
NUT RUNNER

John E. Olson and Lester A. Amtsberg, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application December 31, 1936, Serial No. 118,443

4 Claims. (Cl. 192—30.5)

2. An impact tool comprising a drive shaft, a rotatable impact hammer, a torsionally resilient connection between the shaft and the hammer, an anvil rigidly connected to a tool head, said shaft having a sliding and rotatable bearing in the anvil, said hammer and anvil having complementary clutch teeth separated by spaces permitting lost motion of the hammer relative to the anvil upon interruption of the driving connection, said torsionally resilient connection comprising torque responsive means for automatically moving the hammer away from the anvil, and manually controlled means for holding the hammer out of engagement with the anvil, said last-mentioned means comprising a relatively light disconnect spring surrounding said shaft and



interposed between the hammer and anvil and adapted to be overcome by movement of the tool head and anvil toward the hammer.

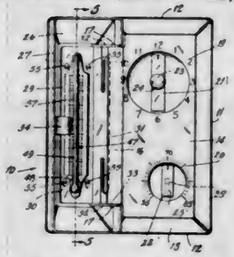
2,160,623

CONTROL CASING

Lawrence M. Persons, St. Louis, Mo., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware

Application May 11, 1936, Serial No. 79,051

7 Claims. (Cl. 297—11)



1. A control casing comprising a base, said base being hollow and of a depth to house control mechanisms, a platform offset from one face thereof, ventilation openings between said platform and said one face, dials on said platform, a cover pivotally connected to said platform, and a thermometer fastened to said cover interiorly thereof, whereby said dials and thermometer can be simultaneously inspected in one position of the cover and are concealed in another position of the cover.

2. A control casing comprising a hollow base, a platform offset from one face thereof, ventilation openings between the platform and the said face leading into the base, and a cover pivotally connected to the platform.

2,160,624

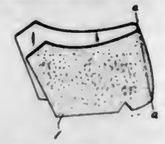
METHOD OF MAKING SHOES

James E. Quinn, Normandy, and Hugh F. Elliott, University City, Mo., assignors to International Shoe Company, St. Louis, Mo., a corporation of Delaware

Application November 4, 1935, Serial No. 48,088

5 Claims. (Cl. 12—146)

2. A preformed quarter lining, said lining comprising a single piece of material, and said lining having a convex crimp along the center line of the heel portion, said crimp comprising ma-



terial displaced from the normal face of the quarter lining.

2,160,625

SHOE

James E. Quinn, Normandy, and Hugh F. Elliott, University City, Mo., assignors to International Shoe Company, St. Louis, Mo., a corporation of Delaware

Application February 7, 1936, Serial No. 62,744

3 Claims. (Cl. 36—45)



1. A shoe construction including a continuous outer quarter having an exteriorly convex bulge along the center line of the heel portion comprising material displaced from the plane of the remainder of the outer quarter, a quarter lining having the contour of its upper edge substantially the same as the contour of the upper edge of the outer quarter, and means connecting said outer quarter and quarter lining along their upper edges, said quarter lining having a closed cut-out at its lower edge, said bulge and said closed cut-out providing a space between the outer quarter and the quarter lining to accommodate a counter.

2,160,626

EXPLOSIVE

Harold F. Schaefer, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Illinois

No Drawing. Application January 6, 1936, Serial No. 57,763. In Great Britain January 2, 1936

12 Claims. (Cl. 52—13)

1. In the art of making explosives the process comprising, dispersing globules of smokeless powder base solution containing fluid non-solvent in a fluid non-solvent bath, the non-solvent within the globules having physical properties differentiating from those of the non-solvent of the bath so as to cause relative migration of the non-solvent within the globules and the non-solvent of the bath, and hardening the globules while the dispersion is maintained.

8. A propellent powder grain composed of a solidified droplet of gelatinized smokeless powder base having a gravimetric density in excess of 0.500.

2,160,627

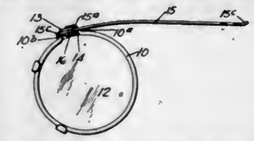
OPHTHALMIC MOUNTING

Harry F. Shindel, Reading, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania

Application March 2, 1937, Serial No. 128,608

2 Claims. (Cl. 88—42)

1. An eye-glass mounting comprising a pair of open-ring eye-wire lens framings each having perforated clamping-ears at the meeting ends thereof, and a connecting bridge member having opposite perforated end portions with forked extensions; the clamping-ears of each framing being extended in opposite directions and overlapped tangentially of its encircled lens in spaced-



apart parallel relation, and having one perforated end of said bridge member extending between and secured to the spaced-apart ears with the forked end thereof engaging the eye wire adjacent the overlying ear.

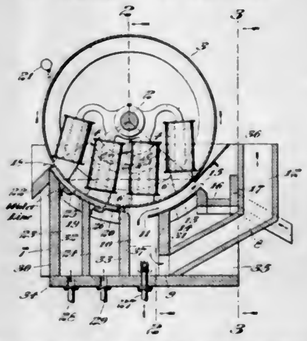
2,160,628

MAGNETIC SEPARATOR

Percy Lea Steffensen, Cornwall, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application March 3, 1937, Serial No. 128,743

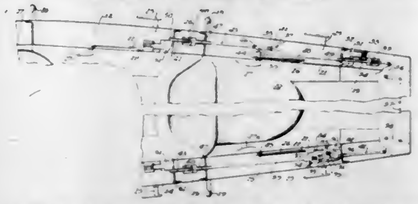
21 Claims. (Cl. 209—214)



12. The method of separating magnetic material from non-magnetic material, comprising producing a feed pulp of water and solids to be treated, passing said feed through a magnetic zone so as to separate the magnetic material from the non-magnetic material, collecting the separated magnetic material on a moving body and disposing of the non-magnetic material contained in said feed, removing the separated magnetic material from the zone of separation in concentrated form to another magnetic zone, passing said concentrates through a shallow stream of fresh wash water flowing in a direction opposite to the travel of said concentrates, then removing the concentrates from the magnetic zone and returning the magnetic material separated from the concentrates during the washing operation directly to the first separating zone and out of contact with the previously treated non-magnetic material for subsequent recovery.

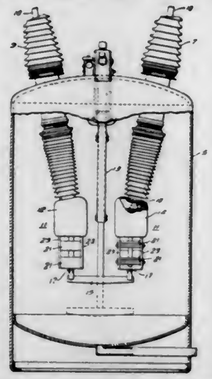
19. In a magnetic separator, the combination with a feed box, of a rotatable drum mounted in said box, means for creating a magnetic field upon the bottom of said drum, a feed chamber for conducting feed to the bottom of the drum, means for supplying feed to said chamber, a tailings overflow positioned above and to one side of said chamber, a concentrates discharge positioned above and at the opposite side of said chamber, and passageways formed by portions of the drum and the box communicating with said chamber and said overflow and discharge.

2,160,629
MOTOR VEHICLE LOCK
Milton Tibbetts, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application February 18, 1935, Serial No. 6,939
6 Claims. (Cl. 70—262)



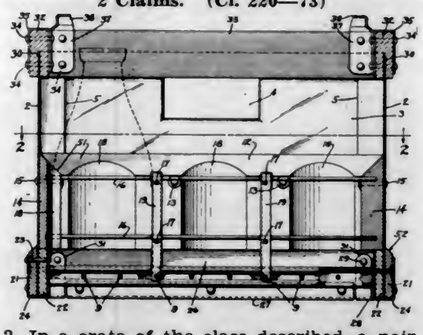
1. In an automobile having two doors, the combination of lock means for each door, a device having connections for simultaneously operating the lock means of both said doors to lock said doors against opening from the outside, a device operable from the inside of the vehicle for releasing one of said doors from its lock means without disturbing the lock means of the other door, means for releasing the lock means of said other door as the first door is moved to open position, the lock means of said other door returning to locked position as said first door returns to closed position, and means for retaining in releasing position the releasing device of the first door when such door is opened and closed.

2,160,630
CIRCUIT BREAKER
Roswell C. Van Sickle, Wilkinsburg, and James M. Cumming, Monroeville, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 29, 1936, Serial No. 82,576
10 Claims. (Cl. 200—145)



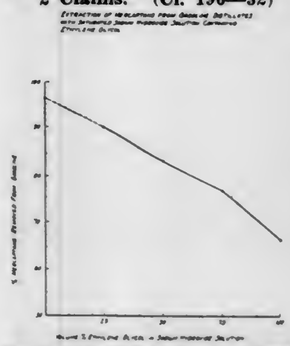
1. In a circuit breaker, a plurality of pairs of separable serially connected contacts, a common actuating member for simultaneously opening said pairs of contacts to produce a plurality of serially connected arcs, a metallic shield member at least partially surrounding each pair of said contacts to shield said contacts from capacity to ground, means for electrically connecting one of the contacts of each pair to its corresponding shield member, the capacity between adjacent shield members being greater than the capacity between any pair of contacts and ground for producing a substantial uniform division of voltage between the several pairs of contacts during at least part of the arc-extinguishing operation and following arc extinction when the breaker is in open circuit position.

2,160,631
CRATE
Charles A. Woolsey, Minneapolis, Minn.
Application May 18, 1936, Serial No. 80,376
2 Claims. (Cl. 220—73)



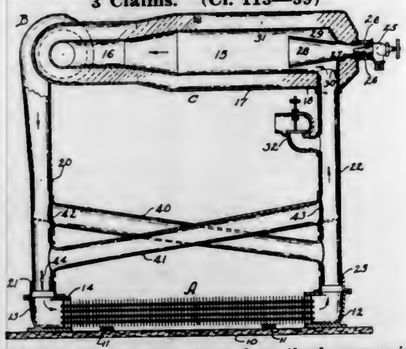
2. In a crate of the class described, a pair of oppositely disposed sheet metal walls having inwardly turned flanges at their ends, a second pair of walls seated against said flanges, tongues on said flanges received in slots in the walls seated thereagainst, and whereby all of said walls are secured together to provide the body of the crate, slats secured to the inner and outer faces of the lower edge portions of said walls, slats having grooves therein for receiving the upper edges of said walls to conceal and reinforce the same, and means for securing said upper grooved slats to said walls.

2,160,632
PROCESS FOR REMOVING ACID COMPONENTS FROM HYDROCARBON SOLUTIONS
David Louis Yabroff, Berkeley, and Ellis R. White, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 7, 1937, Serial No. 141,358
2 Claims. (Cl. 196—32)



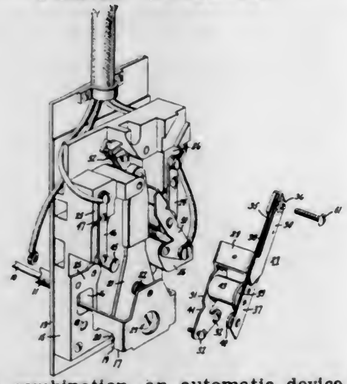
1. In the process of separating organic acid-reacting substances contained in a water-insoluble neutral or basic organic liquid, the step comprising treating said liquid with an aqueous solution of ethylene glycol containing not less than about 25% water, which solution is substantially saturated with an alkali metal hydroxide, the amount of ethylene glycol in said solution being sufficient to prevent salting out of the alkali metal salts of said acid-reacting substances from the solution.

2,160,633
DEVICE FOR BONDING FINS TO TUBES
Fred M. Young, Racine, Wis.
Application July 28, 1937, Serial No. 156,078
3 Claims. (Cl. 113—59)



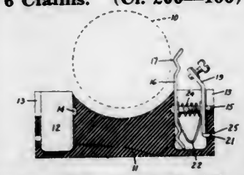
1. A device of the class described, comprising a mixing chamber, a blower fan having inlet connections from one end of said mixing chamber and an outlet duct connection to an adapter, a burner having a fresh air inlet and a combustion chamber which extends into the other end of said mixing chamber providing thereby an annular chamber having at its inner end an annular outlet to said mixing chamber, a second adapter having a duct connection to said annular chamber, a relief valve in said second duct for the escape of surplus products of combustion, cross ducts leading from said first and second ducts having valves whereby the products of combustion may be caused to move through the tubes of said radiator in either direction.

2,160,634
THERMOSTATIC SWITCH MECHANISM
Ernest Zurcher, Knoxville, Tenn., assignor to General Electric Company, a corporation of New York
Application February 15, 1937, Serial No. 125,872
8 Claims. (Cl. 200—137)



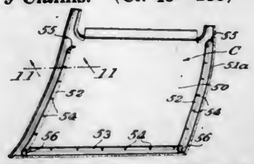
1. In combination, an automatic device having an operating arm movable in accordance with variations in a predetermined condition, a movable current carrying switch member having a snap action mechanism connected therewith, a separate stationary current carrying switch member for cooperating with said movable switch member to control a circuit, and a base secured to said device and provided with separate means including an adjustable element for mounting each one of said switch members in reversed adjustable positions on opposite sides of said operating arm with said movable switch member in the path of said operating arm and in reversed adjustable operating relation therewith with respect to variations in said predetermined condition.

2,160,635
ELECTRIC CONTROLLER
Franz Arndt, Berlin-Charlottenburg, August Rausch, Berlin-Zehlendorf, and Wilhelm Staffel, Berlin-Tegel, Germany, assignors to General Electric Company, a corporation of New York
Application January 10, 1938, Serial No. 184,328
In Germany January 14, 1937
6 Claims. (Cl. 200—166)



1. The combination in an electric controller of a contact finger provided with an aperture, a terminal strap provided with an aperture, one of said apertures being tapped, a screw extending through said apertures, a support provided with walls between which said finger and said terminal are inserted and secured by turning said screw to clamp said terminal against one of said walls, and a spring for holding said finger against an opposite wall of said support.

2,160,636
TRIM PANEL ASSEMBLY
Albert P. Ball, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application November 18, 1935, Serial No. 50,331
9 Claims. (Cl. 45—138)



1. A trim panel and a supporting frame therefor, the panel comprising a backing sheet and metal strips along side edges thereof permanently bowed to hold the panel normally in bowed condition, the frame having clearance grooves to receive said strips, and cooperating means on the frame and panel for attaching and holding the panel on the frame in flattened condition.

2,160,637
TRIM PANEL ASSEMBLY
Albert P. Ball, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application January 31, 1936, Serial No. 61,717
5 Claims. (Cl. 45—138)

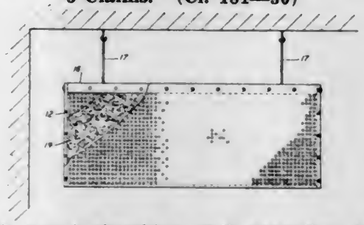
1. A trim panel adapted to be mounted on a

supporting surface comprising a relatively stiff flexible backing sheet having a set bowed condition with edges of the sheet bowed outwardly from the supporting surface before attachment thereto, devices spaced along one of said edges and cooperable to simultaneously hold said edge along a substantial portion of its length bent down



tightly against the supporting surface, and means for bending down the remaining portion of said edge tightly against the supporting surface, one of said devices having a preliminary panel holding position to permit predetermined positioning of another fastener device before bending down the edge of the sheet.

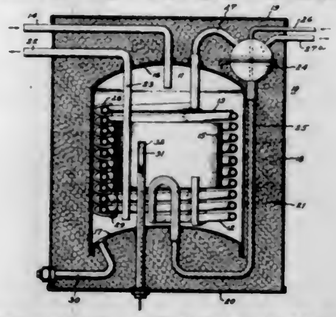
2,160,638
SOUND-ABSORBING UNIT
Eual H. Bedell, Hinsdale, Ill., and Leon J. Sivian, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 19, 1937, Serial No. 159,840
3 Claims. (Cl. 181—30)



3. A sound absorbing unit according to the preceding claim which is of large mass to prevent swaying of the unit under the pressure of the sound waves and in which the suspending means is of such low stiffness that the suspended unit resonates at a frequency lower than that of the room structure vibrations to minimize the shedding of the fibrous material through the perforations.

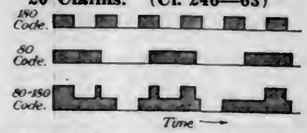
2,160,639
WATER COOLER
Ralph E. Billings, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application May 6, 1938, Serial No. 206,442
7 Claims. (Cl. 62—141)

1. A liquid cooling apparatus having inlet and outlet conduits for a liquid to be cooled, cooling means, distributing means beneath said inlet for causing said liquid to be cooled to circulate in proximity to said cooling means, and baffle means within said cooling means spaced from said dis-



tributing means in such a manner as to cause said liquid to be cooled to be recirculated into proximity with said cooling means.

2,160,640
RAILWAY TRAFFIC CONTROLLING APPARATUS
Paul N. Bossart, Cheswick, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 26, 1938, Serial No. 198,299
20 Claims. (Cl. 246—63)



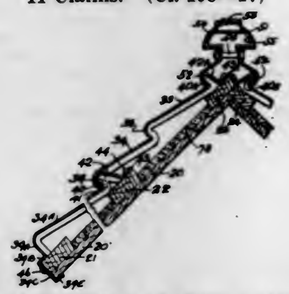
1. Railway traffic controlling apparatus comprising means for supplying the trackway with energy coded at one or another of a plurality of different rates individually or at a plurality of said rates compositely, and traffic-governing means responsively controlled by said trackway energy for displaying a distinctive indication for each individual coding thereof and for each composite coding thereof.

2,160,641
STOKER STRUCTURE
Robert E. Bressler, Oregon, Ill., assignor to Kol-Master Corporation, Oregon, Ill., a corporation of Illinois
Application November 7, 1936, Serial No. 109,688
2 Claims. (Cl. 110—45)



1. In a stoker structure, an article of manufacture comprising a feed tube section, means on one side of said section providing an upwardly opening tubular projection for the entrance of air thereinto, means providing a longitudinally extending internal channel along another side of the conduit section spaced arcuately from the first mentioned side, one end of said channel extending around a part of said tube section and communicating with said tubular projection for the passage of air, said channel being of the greatest cross sectional area at said end and diminishing in cross sectional area toward its other end, and rotating feeding means within the tube section, said rotating means having its upper side rotating toward said channel.

2,160,642
ROOF
Ollie V. Bumpas and William G. Smith, Memphis, Tenn.
Application December 20, 1937, Serial No. 180,809
11 Claims. (Cl. 108—17)



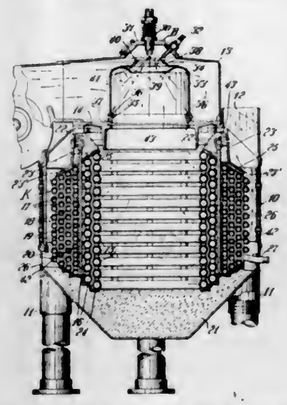
1. A roofing surface of sheet material, comprising a plurality of interlocking rectangular sheets, and including edge and intermediate sheets, each said intermediate sheet having along an upper edge and along one side edge, continuous locking members, each said locking member having an outwardly extending edge portion adapted to be secured by nailing, and said sheet having along its respective opposite edges, interlocking members complementary respectively to said locking members, said interlocking members being adapted for interlocking with locking edges of adjacent sheets and each said intermediate sheet adjacent its interlocking members to overlie and protect the nailing edges of such adjacent sheets, one or more of said sheets being apertured inwardly from said locking and interlocking members and upwardly flanged around said opening, said sheet and said flanging being integral and both continuous around said opening, the flange toward the upper edge of said sheet being connected by a sheet portion having a hip adjacent the lateral center of said flange whereby drainage around said opening is effected.

2,160,643
FOLDING BOX
Charles Burel, New York, N. Y.
Application November 10, 1937, Serial No. 173,836
3 Claims. (Cl. 229—32)



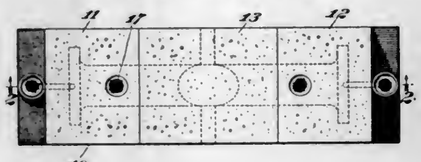
1. In a folding box, a corner construction, comprising a base wall, an end wall and a side wall normally at right angles to each other, and a flap continuing from said end wall and extending behind the adjacent portion of said side wall, said side wall having an inwardly bent crease extending from the intersection of said walls upwards to the outer corner of said flap, and said flap being secured to the side wall portion above said crease, said flap being formed with a curled portion extending from the bottom edge thereof, and a lug portion on said flap engaging the edge of said curled extension portion for holding the same so as to frictionally engage said base wall.

2,160,644
STEAM GENERATING SYSTEM
Alick Clarkson, Elmhurst, Ill.
Application September 8, 1936, Serial No. 99,736
7 Claims. (Cl. 122—250)



1. In combination with a substantially helical steam generating pipe coil, a plurality of spacers between the turns of the coil which are attached to both turns, and a plurality of spacers between said turns which are attached to one turn only.

2,160,645
FOUNDRY MOLD AND THE LIKE
William W. Cooper, Harrisburg, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application July 2, 1937, Serial No. 151,559
6 Claims. (Cl. 22—113)

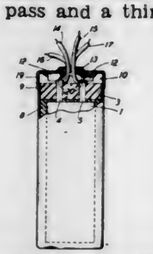


1. A sand and cement mold for casting flanged metal articles, said mold comprising end portions and intermediate portions, said end portions being adapted to move towards each other in response to pressure exerted by the flanges during contraction of a casting, said intermediate portions being movable relative to said end portions to permit movement of said end portions towards each other.

2,160,646
ELECTRIC CONDENSER
Kenneth G. Coutlée, Yonkers, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 2, 1936, Serial No. 99,020
1 Claim. (Cl. 175—41)

A condenser comprising a condenser unit, leads for electrically connecting said unit to electrical apparatus, a collapsible tube housing for containing said unit, said housing having an opening at one end a cellulose acetate cover for the open end of said unit, tabs on said cover for insulating said leads from each other, a cellulose acetate

washer fixedly attached to said cover through which said leads pass and a thin film of cellu-



lose acetate completely covering said housing, washer and cover.

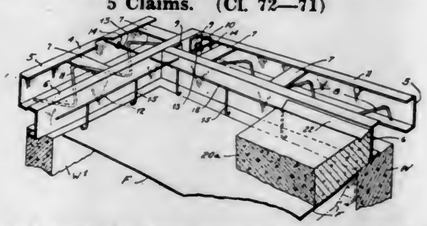
2,160,647

METHOD AND APPARATUS FOR FORMING CONCRETE STRUCTURES

Harold S. Curren, Pultneyville, N. Y., assignor to The Curren-Fabrihome Corporation, Francistown, N. H., a corporation of Delaware

Original application October 28, 1936, Serial No. 107,931. Divided and this application August 3, 1937, Serial No. 157,231

5 Claims. (Cl. 72—71)



4. A guide for determining and reinforcing an exposed surface portion of a concrete slab, comprising a section of wire adapted to be stretched in position across a concrete form, and a plurality of elongated bendable members secured to the wire, depending therefrom and having upwardly curled deformable lower end portions for substantially single point contact with the form, whereby height adjustment can be effected by tapping the extremities of said lower end portions or tapping the upper portions of the members to further curl their lower end portions.

2,160,648

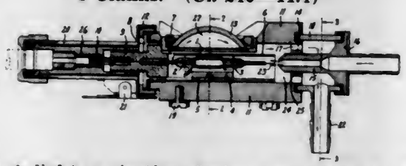
MOUNTING ARRANGEMENT FOR A HIGH INTENSITY LIGHT SOURCE

Hendrik de Jong, Jan Bergmans, and Willem Kortenray, Eindhoven, Netherlands, assignors to General Electric Company, a corporation of New York

Application February 5, 1938, Serial No. 189,006

In Germany February 13, 1937

4 Claims. (Cl. 240—11.4)



1. A light projection device comprising a casing provided with a chamber having a window therein, a high intensity tubular lamp mounted in said chamber behind said window, a reflector member also mounted in said chamber behind said lamp, current-supply connections at one end of said device for supplying current to said lamp, inlet and outlet members at the other end of said device communicating with said chamber for circulating a cooling liquid therethrough, and guide means transparent to radiations from said lamp mounted in said chamber between said lamp and said window and arranged to control the flow of the cooling medium from said inlet member through said chamber past said lamp along one side of the guide means and back along the other side of the guide means to said outlet member.

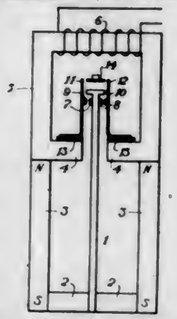
2,160,649

ELECTRICAL RELAY

Lee Devol, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application November 27, 1937, Serial No. 176,835

14 Claims. (Cl. 200—91)



1. A relay comprising a magnetizable vibratory reed, means including a polarizing magnet for vibrating said reed, a magnetizable flexible contact finger forming a path for flux from said magnet to said reed whereby when said reed swings toward said finger a magnetic attraction will exist between said reed and said finger, and cooperating contact members secured to said reed and said finger respectively and adapted to be moved into engagement by the motion of said reed toward said finger.

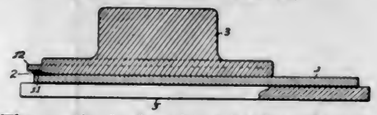
2,160,650

METHOD OF MAKING SHOES

John J. Dudenhofen, St. Clair, Mo., assignor of thirty-seven and one-half per cent to John C. Henley, St. Louis, Mo., and twenty-five per cent to George R. Ericson, Kirkwood, Mo.

Application October 22, 1937, Serial No. 170,371

4 Claims. (Cl. 12—142)



1. The method of making leather shoes which comprises the steps of first attaching the welt to the sole, and then making an imprint in the welt to receive the upper.

2,160,651

PULSATOR FOR MILKING MACHINES

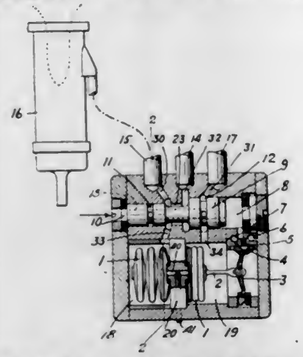
Sven Johan Erling, Nockeby, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application November 29, 1937, Serial No. 176,982

In Sweden December 3, 1936

2 Claims. (Cl. 31—69)

1. A milking machine pulsator comprising means providing air passages adapted to communicate respectively with sources of high and low pressure, two air chambers, two expansible and contractable fluid containers positioned in the respective air chambers, a conduit allowing flow of fluid back and forth between said containers, said containers and conduit forming a closed system, a pneumatically actuable slide valve adapted to connect the two chambers with



the high and low pressure passages respectively and reverse such connections, valve mechanism operable to control the pneumatic actuation of the slide valve, and means, operable by the containers during expansion and contraction thereof, due to changes of pressure in their respective chambers, controlling the operation of said valve mechanism.

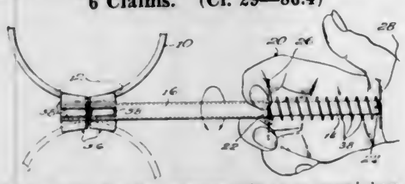
2,160,652

PISTON RING REMOVER

Glenn H. Feigh, Chicago, Ill., assignor to Walter W. Elliotson, Chicago, Ill.

Application December 2, 1937, Serial No. 177,714

6 Claims. (Cl. 29—86.4)



6. A spreader for piston rings comprising two normally abutting members reciprocable relative to each other along a rectilinear axis and held against relative rotation, a plurality of peripherally spaced channel members secured to said members in reversely identical pairs and having different widths to accommodate rings of differing axial thicknesses, both members of each of said pairs being aligned parallel to the longitudinal axis of the device, means closing adjacent ends of each of said pairs of channel members for engaging the ends of cut piston rings and holding said rings in a predetermined relation, and manual means for reciprocating said abutting members.

2,160,653

KNOCK-DOWN CHEST

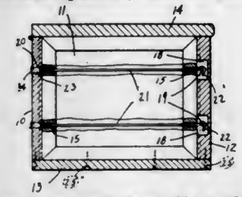
Warren T. Green and Carl Brenner, Louisville, Ky., assignors to Mengel Body Company, Louisville, Ky., a corporation

Application April 12, 1937, Serial No. 136,346

3 Claims. (Cl. 217—12)

1. A chest having two sets of wall panels, one set being removably secured intermediate the other set with their end edges abutting the

inner surfaces of the latter, tie rods freely extending from end to end through said intermediate panels and concealed therein, one of said abutting panels having recesses in the inner surface thereof concealed by the abutting edges of the intermediate panels, anchor pins secured in



said recesses to which said tie rods are removably connected, the opposite ends of said tie rods being threaded and extending through the other abutting panel, and nuts adapted to screw on the threaded ends of said rods for drawing said abutting panels toward each other into clamping relation with said intermediate panels.

2,160,654

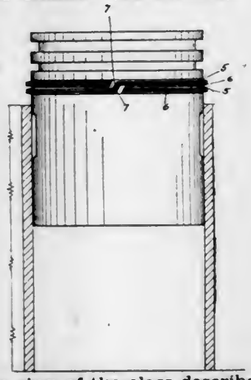
PISTON RING

Rudolf A. Hagen, Grand Island, Nebr., assignor, by direct and mesne assignments, of one-half to Claude J. Doran, St. Louis, Mo., and one-half to Coil Piston Ring Company of America, St. Louis, Mo., a corporation of Missouri

Application September 6, 1932, Serial No. 631,743

Renewed January 9, 1939

14 Claims. (Cl. 309—24)



1. A piston ring of the class described consisting of two superimposed split members, each member being provided with an axially extended offset and the members arranged with their offsets together.

2,160,655

OSCILLATION GENERATION AND CONTROL

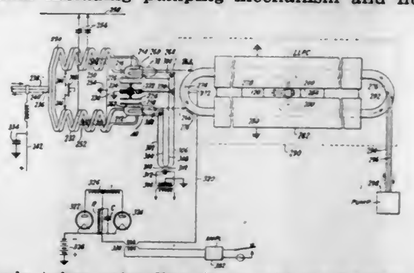
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application October 4, 1933, Serial No. 692,092. Divided and this application May 8, 1937, Serial No. 141,467

3 Claims. (Cl. 178—44)

1. In combination in an ultra high frequency transmitting or receiving system, a tuned resonant line circuit comprising concentric hollow inner and outer conducting tubes at least one of which has the form of an ellipse, an imperforate wall within the interior of said inner conductor dividing said inner conductor into two

sections having an unobstructed passage therebetween at a location removed from said wall, and means for circulating temperature controlling fluid through said inner conductor, said means including pumping mechanism and fluid



supply tubes extending from said mechanism to opposite sides of said wall, said tubes communicating with the interior of said sections, whereby the temperature of said resonant line circuit and its electrical constants are maintained substantially constant.

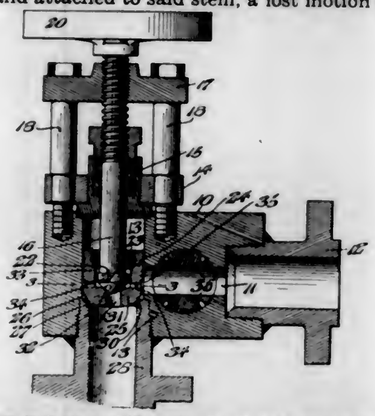
2,160,656
GOLF CLUB GRIP
Eric E. Hall, Chicago, Ill.
Application March 29, 1938, Serial No. 198,728
2 Claims. (Cl. 273—81)



1. In combination with a golf club shaft, a protuberant deformable soft rubber insert loosely applied to the upper portion of the handle end of the golf club shaft, and a tubular integral sheath of thin elastic rubber overlying and surrounding the insert and stretched thereby to corresponding configuration and presenting a surface affording a relatively high co-efficient of friction for the player's upper hand and serving to deform the insert to the extent necessary to closely conform to the curvature of the underlying surface of the handle.

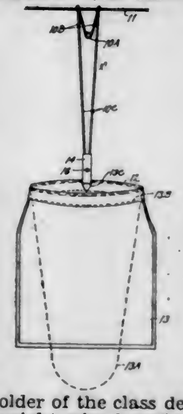
2,160,657
VALVE FOR CONTROL OF MEDIUMS UNDER PRESSURE
George P. Haynes, Rockville Centre, N. Y.
Application December 18, 1937, Serial No. 180,488
2 Claims. (Cl. 277—36)

2. A valve consisting of a casing having a through passage and a bore communicating with said passage, a valve seat arranged transversely of said passage, a valve stem in said bore to extend exteriorly of said casing, a main valve arranged to engage said seat to close said passage, said valve having an axially disposed port therein, an annular extension in said valve forming an internal chamber, an auxiliary valve in said chamber and attached to said stem, a lost motion con-



nection between said main valve and said stem to afford relative turning of said main valve and a limited linear movement of said stem relative to said valve, and a plurality of channels through said extension, said channels being disposed at an angle to the direction of the incoming medium under pressure.

2,160,658
CLOTHESPIN BAG
Carl S. Hedquist, Minneapolis, Minn.
Application March 4, 1937, Serial No. 128,979
3 Claims. (Cl. 248—99)

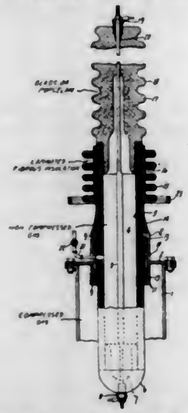


1. In a bag holder of the class described having an elongated upright wire handle the lower end of which comprises a pair of parallel wires, a bag suspended from the lower part of said handle, said bag having a hemmed opening; an open wire ring removably retained in said hem and its adjacent ends protruding therefrom, a joint device at the lower end of the handle comprising a pair of registering metal channel pieces, a bolt traversing the center part of said joint to clamp the handle wires therebetween at and over the bolt, said ring formed at each of its ends with a right angled terminus, both in close parallel relation, and means in said joint channels, below the bolt, to positively engage said ring termini in either of two selective positions.

2,160,659
HIGH RESISTANCE ELECTRODE
Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co. Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application October 5, 1937, Serial No. 167,371
5 Claims. (Cl. 219—4)

5. A high resistanace electrode of the type suitable for resistance welding and electric upsetting, said electrode being formed of a sintered mixture of refractory metal selected from the group consisting of tungsten, molybdenum and chromium with refractory metal compound selected from the carbides, nitrides and borides of metals taken from the fourth and fifth groups of the periodic system and the carbides of tungsten and molybdenum, said sintered mixture being interspersed and bonded with a copper alloy of high electrical resistivity, said electrode being characterized by high hardness and mechanical strength at room and elevated temperatures.

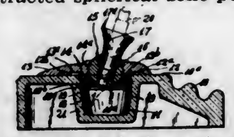
2,160,660
HIGH POTENTIAL TERMINAL
Henry M. Hobart, Niskayuna, N. Y., assignor to General Electric Company, a corporation of New York
Application September 23, 1937, Serial No. 165,327
7 Claims. (Cl. 174—14)



7. A terminal for high potential electric conductors comprising an insulator having a central chamber, one end of the insulator being exposed to a cooling atmosphere, a conductor in the chamber extending axially of the insulator, sealing means for the conductor where it extends through the walls of the insulator, a filling of high pressure insulating gas for the chamber which tends to liquefy when its temperature is reduced by said atmosphere, and a heating means for maintaining the gas above its liquefying temperature during normal operating conditions of the terminal.

2,160,661
PENHOLDER FOR INKSTANDS
Edmond J. Huott, New York, N. Y.
Application July 28, 1938, Serial No. 221,655
8 Claims. (Cl. 120—4)

1. In combination with an ink stand having a flat top with an ink holding opening surrounded with a flange extending across the front of the opening and straight rearwards at the sides, a substantially flat body for resting on the top face of said flat top and having a recess for said flange and a cylindrical projection engaging partially into said ink holding opening and formed with a cylindrical opening extended in from the bottom and terminating at the top of said body in a slightly contracted spherical zone portion, a ball



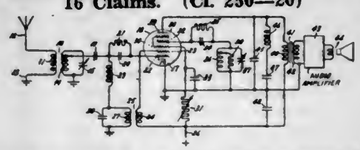
disposed in said cylindrical opening and resting against said spherical zone portion, a tube having an outwardly flaring end and mounted at its inner end in an opening extending through said ball, and an annular member mounted on the bottom of said cylindrical projection and frictionally engaging said ball.

2,160,662
CARRIER FOR BOTTLES OR OTHER OBJECTS
Tazewell H. Jenkins, Chicago, Ill.
Application May 19, 1938, Serial No. 208,766
6 Claims. (Cl. 215—100)



1. A carrier for a bottle or other container having a neck, comprising a divided resilient ring having the meeting ends crossing each other and shaped to form an eye, said ring having a second eye opposite the aforesaid eye, the extreme end portions of the ring being shaped to overlap upon contracting the ring and then permitting it to expand, and a handle having closed loops interengaged with said eyes, the eyes lying approximately parallel in the plane of the ring, and the parts being so proportioned that when the handle is swung in one direction to bring it at right angles to said plane while the ring is expanded, the ring is caused to contract and said extreme ends to interlock with each other.

2,160,663
SUPERREGENERATIVE DETECTOR CIRCUIT
Richard C. Jensen, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application February 18, 1938, Serial No. 191,221
16 Claims. (Cl. 250—20)



1. A superregenerative receiver comprising, in combination, an electron discharge device having an anode, a cathode, and a plurality of grids, means for impressing signal oscillations on a first of said grids, means for impressing oscilla-

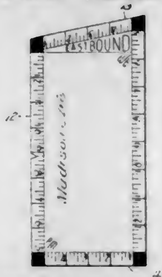
tions of substantially signal frequency on a second of said grids, means for impressing quench oscillations on one of said grids, an output circuit connected to said anode and said cathode, and signal translating means in said output circuit.

2,160,664
TAP WRENCH
Karl A. Kuhn, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a corporation of Massachusetts
Application June 21, 1937, Serial No. 149,425
1 Claim. (Cl. 10—149)



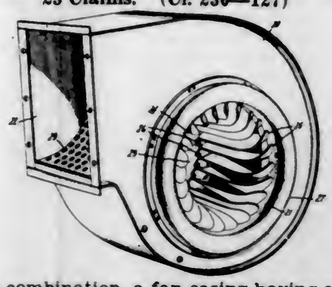
A tap wrench comprising a flat body 11 of bar steel tapering to less width toward each end in the plane of the faces 14 and enlarged in thickness at each end in a direction normal to said faces 14 to form conical end portions 12, said body 11 having a slot 15 with jaw 16 at one end and the threaded bore 21 opening from said slot at the other end, a handle 25 at one end of said body, a jaw 18 sliding in said slot and having a bore 24, a rotatable handle 20 threaded into the bore 21 in one end of said body 11 and having a threaded bore 23 within its threaded end and within the bore 21 of said body and carrying an enlarged grip portion at its outer end, and a pin 22 having at one end a head force-fitted into said bore of said jaw and threaded at the other end into the bore 23 of the rotatable handle 20 so that all of the threaded adjusting means are overlapped within one end of said body 11, said conical end portions 12 being of sufficient size to support the wrench in all positions with the enlarge grip of the rotatable handle 20 entirely out of contact with a flat supporting surface.

2,160,665
TRANSFER
Joseph Linderman, Chicago, Ill.
Application August 26, 1937, Serial No. 160,957
1 Claim. (Cl. 283—27)



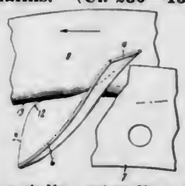
In a series of transfers, certain of said transfers of said series indicating one direction of travel, other transfers indicating other directions of travel, each of said transfers having an oblique end and printed matter on the face of said transfer indicating a definite direction of travel for said transfer, said transfer and printed matter thereon being so arranged relative to the oblique end that when held in reading position, transfers indicating the same direction of travel will when superposed have their oblique ends in registry and a transfer indicating a different direction of travel will not have its oblique end in registry.

2,160,666
FAN
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 1, 1936, Serial No. 82,780
23 Claims. (Cl. 230—127)



1. In combination, a fan casing having an inlet opening and an outlet opening, a curved orifice member secured in said inlet opening, a hub located in said casing, means to rotate said hub, a plurality of blades secured to said hub and extending axially therefrom, said blades being inclined at an angle rearwardly in axial direction from the direction of rotation of the hub and curved forwardly in the direction of rotation of the hub at the outer end, and a shroud ring secured to said blades adjacent said orifice.

2,160,667
FAN
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1938, Serial No. 199,460
8 Claims. (Cl. 230—134)

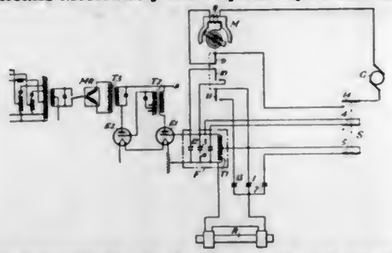


1. In a fan, axially extending blades having inner intake edges defining a passage into which air flows axially and outer discharge edges from which the air is discharged radially, the discharge edges being inclined backwardly as regards the direction of rotation of the fan, the blades being inclined in an axial direction rearwardly as regards the direction of rotation of the fan from the rear toward the front ends, and the front ends of the blades being curved forwardly and projecting into the axially flowing air entering the fan and serving as scoops to increase the amount of air entering the fan.

2,160,668
TRAIN CONTROL SYSTEM
Frank H. Nicholson, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 8, 1938, Serial No. 218,137
6 Claims. (Cl. 246—63)

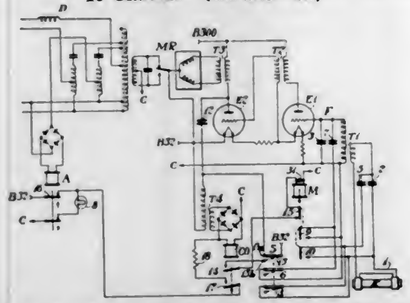
1. In a train control system including a receiver to be energized by modified or unmodified current flowing in a wayside conductor, a traffic control device responsive to the influence of modified

current, circuit means for connecting said receiver with said device, a modulator, and means controlled by said modulator for tuning said circuit means alternately and repeatedly to two dif-



ferent frequencies for so modifying the current supplied to said device by the receiver when the latter is energized by unmodified current as to cause response of said device.

2,160,669
TRAIN CONTROL SYSTEM
Leslie R. Allison, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 11, 1938, Serial No. 224,355
19 Claims. (Cl. 246—63)

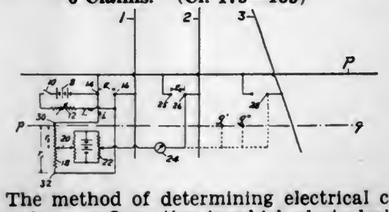


1. In a train control system, the combination, with a receiver to be energized by modified or unmodified current flowing in the trackway and a traffic control device supplied with energy from said receiver and responsive to the influence of modified current, of a modulator for modifying the unmodified current induced in said receiver to simulate the effect of modified current and cause response of said device, and means for controlling said modulator in accordance with the energy supplied by said receiver.

2,160,670
METHOD OF MANUFACTURING HARD FRITTERED ALLOYS
Marcel Oswald, Paris, France, assignor to General Electric Company, a corporation of New York
No Drawing. Application May 26, 1938, Serial No. 210,271. In France June 18, 1937
3 Claims. (Cl. 75—137)

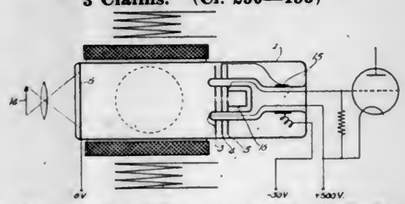
1. A method for preparing a finely divided mixture of the powdered ingredients employed in the manufacture of sintered hard metal compositions, said method comprising mixing an oxide of a refractory metal and an oxide of a lower melting point metal, reducing said mixture in a carburizing medium, adding sufficient carbon to the mixture to permit the desired carburization of the refractory metal constituent of said alloy and heating the mixture at a temperature of about 1150 to 1300° C. in a hydrogen atmosphere.

2,160,671
ELECTRICAL MEASURING METHOD AND MEANS
John M. Pearson, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application June 22, 1937, Serial No. 149,648
6 Claims. (Cl. 175—183)



1. The method of determining electrical conditions in a configuration in which electrolysis is occurring including at least two structures, comprising providing a variable current source between said two structures, balancing the change of potential between one of said structures and another point in the configuration due to variation of said current against an adjustable fraction of the change of potential between the said structures due to the same variation of said current to thereby determine the ratio of simultaneous changes of said potentials, and repeating said balancing steps for at least one other point adjacent said structures while providing a variable current source between the same two structures.

2,160,672
IMAGE DISSECTOR TUBE
Martin Ploke, Dresden, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Application November 10, 1937, Serial No. 173,895
In Germany November 13, 1936
3 Claims. (Cl. 250—153)

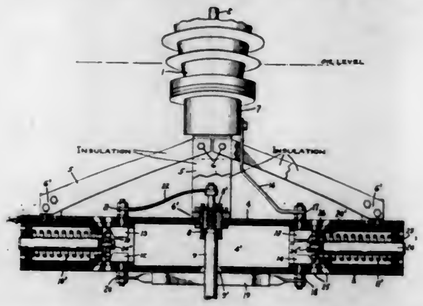


1. An image dissector tube, particularly for television purposes, including within an envelope, a photo cathode, an apertured anode electrode combination for scanning the electron image appearing on said cathode, and a collecting electrode said apertured anode electrode combination comprising at least three apertured and axially alined electrodes of which the center electrode is adapted to having a negative potential with respect to the other two electrodes, said collecting electrode being connected with the apertured electrode farthest away from said cathode.

2,160,673
ELECTRIC CIRCUIT BREAKER
David C. Prince, Swarthmore, Pa., assignor to General Electric Company, a corporation of New York
Application March 3, 1938, Serial No. 193,709
6 Claims. (Cl. 200—150)

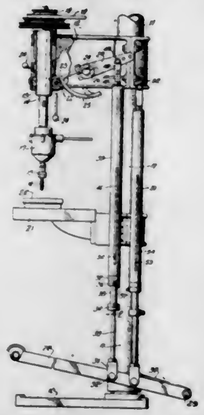
1. An electric circuit breaker for interrupting

high voltage power circuits comprising an insulating arc chamber containing an arc-extinguishing liquid, relatively movable contacts separable in said chamber to form a pressure-generating arc, a plurality of independently operable contacts arranged to form a plurality of breaks in series with said arc, said breaks being located



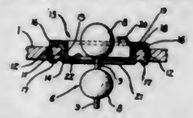
adjacent exhaust ports in said chamber and substantially in symmetrical relation to said pressure-generating arc, and means for biasing said independently movable contacts towards closed circuit position substantially to close said ports in opposition to limited arc pressure in said chamber.

2,160,674
DRILL PRESS FOR TAPPING ATTACHMENT
Harry G. Procunier, Chicago, Ill., assignor to Procunier Safety Chuck Company, Chicago, Ill., a corporation of Illinois
Application March 11, 1937, Serial No. 130,325
11 Claims. (Cl. 10—105)



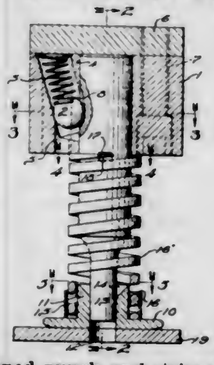
1. In a tapping machine, a shaft, means for rotating the shaft, means operably connected to the shaft for raising and lowering the same, said last-named means including a foot-lever and a yieldable means between the lever and shaft, said yieldable means including an elongated screw member, a helical compression spring about the screw member, a nut on the screw member, a casing surrounding the spring and nut, said casing being rotatable with respect to the screw member so as to turn the nut and to adjust the compression of the spring, and spring means for raising the shaft.

2,160,675
CONNECTING OR SECURING MEANS
Edgar Renneberg, Cleveland, Ohio, assignor to The Safety Equipment Service Company, Cleveland, Ohio, a corporation of Ohio
Application March 27, 1937, Serial No. 133,437
2 Claims. (Cl. 24—211)



1. In a device of the character described for connecting separable parts, one of said parts having a wall with an opening therein and the other a portion shaped to extend in said opening, connecting means for securing said portion in said opening comprising a pair of concentrically arranged interfitted cup shaped members, each having an eccentrically disposed opening therein and an angularly disposed lip, the body portion of one of said cup shaped members fitting within the opening in said wall with its lip engaging a side surface of the wall adjacent said opening, the body portion of the other of said cup shaped members fitting in said first cup shaped member with its lip overlying the lip of said first cup shaped member and having attaching means extending therefrom and attached to the wall to hold the said cup shaped members in said opening, the lip of the first cup shaped member lying between the lip of said second member and the wall to which said second member is attached, said first member having a tongue extending outwardly of one side thereof between the contour of the lip of the second cup shaped member whereby the first cup shaped member may be rotated relative to the second to move the eccentric openings into and out of aligned relation with each other.

2,160,676
COMBINED PUNCH AND STRIPPER
Clement C. Richard, Bloomfield Hills, Mich., assignor to Allied Products Corporation, Detroit, Mich., a corporation of Michigan
Application December 13, 1937, Serial No. 179,529
7 Claims. (Cl. 164—110)



1. A combined punch and stripper comprising a punch having a shank and a point, a stripper plate apertured to receive the point and reciprocable thereon, and a helical spring encircling the punch and having one end attached to the plate and the other end to the punch shank, in a manner to permit the said end to limitedly move longitudinally of the shank.

2,160,677
REINFORCED CORRUGATED SHEET
Hippolyte W. Romanoff, New York, N. Y.
Application September 15, 1937, Serial No. 163,886
3 Claims. (Cl. 154—55)



1. A reinforced corrugated sheet with corrugations of a trapezoidal cross-section, having top and bottom planar portions lying in two parallel planes, the side walls having straight transverse corrugations coterminous with the said planar portions thereby imparting a zig-zag outline to the edges of the planar portion.

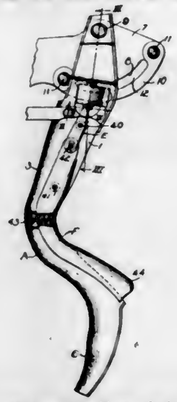
2,160,678
HUMIDIFIER
Norman Ruby, Stratford, Ontario, Canada
Application February 7, 1938, Serial No. 189,113
2 Claims. (Cl. 122—20)



1. In a humidifier, a cylindrical heating chamber insertable in a pipe connection between a furnace outlet and stack and having diametrically opposite inlets and outlets in its upper portion, a water chamber comprising inwardly dished ends and segmental tubular portions connecting such dished ends at their circumference and forming between them diametrically opposite slotted openings, a closing valve for the slotted opening adjacent to the heating chamber outlet, covers for the dished ends, a water supply pipe leading into the lower dished end, and a vapor outlet pipe leading from the upper dished end.

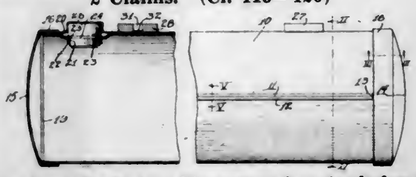
2,160,679
FRICTION BRAKE LEVER
Ray A. Sandberg, Waukegan, Ill., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 5, 1938, Serial No. 206,105
5 Claims. (Cl. 74—531)

1. In an automotive emergency brake lever construction, a mounting plate, a lever having spaced legs astraddle said plate and thereto pivoted, said plate having an arcuate slot through it struck on a radius having its center in the pivot axis, said legs being apertured in register with said slot, a bar extending through said leg apertures and said slot and projecting outwardly of the legs, the ends of said bar being fashioned to form vertical walls one on each side of said plate and in spaced relation to the adjacent plate surface, said walls being horizontally inclined toward said plate in the direction of brake pull, a roller between one end wall and its adjacent plate surface, another roller between the other end wall and its adjacent plate surface, said rollers having axles above and below the same and extending substantially vertically, the bar being slotted to receive the upper axles of said rollers, a closure member against the bottom of said end and having slots for the lower axles of the rollers, U-shaped cages oscillatable on the bar ends and having apertured arms receiving the axles of said rollers, spring means acting against said cages to swing them in directions to maintain the



rollers in contact with the plate and in wedging position between the plate and the bar end walls, and manually operable means for swinging said cages in opposite directions to free the rollers from frictional engagement with said plate.

2,160,680
METHOD OF MANUFACTURING RECEIVER TANKS
Ray A. Sandberg, Waukegan, Ill., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 19, 1935, Serial No. 55,183
2 Claims. (Cl. 113—120)

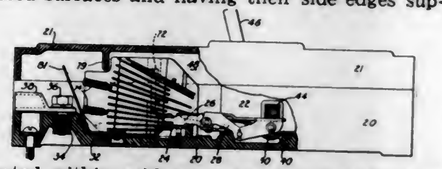


1. A method of making a receiver tank for refrigerating systems which comprises forming a sheet of metal into a tube with adjoining edges flanged outwardly to form substantially contacting surfaces, disposing skirted cap members across the open ends of the tube with the skirts in extended contact with the tube, piercing the metal sheet to form an inturned annular flange in the tube, disposing an apertured plug in the opening defined by said flange in extended contact with the flange, disposing brazing wires adjacent to the contacting surfaces and heating the assembly in a non-oxidizing atmosphere to melt the wires and integrally braze together the contacting surfaces.

2,160,681
CIRCUIT INTERRUPTER
Jerome Sandin, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1937, Serial No. 182,484
8 Claims. (Cl. 200—147)

1. An arc extinguishing device for circuit inter-

rupters comprising means of insulating material defining two opposed surfaces of an arc passage, said means of insulating material having a plurality of spaced grooves disposed along said opposed surfaces, a plurality of plates of conducting material disposed transversely between said opposed surfaces and having their side edges supported within said grooves, each of said plates having an arc receiving slot in one end thereof, a plurality of said plates having a part of their slot defining portions completely recessed in said means of insulating material to prevent an arc established adjacent said recessed portions from striking thereto.

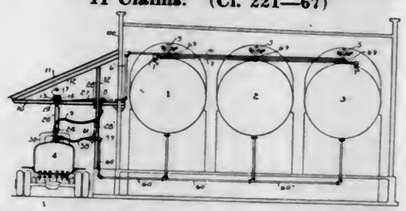


2,160,682
COMBINATION COAT AND HOOD FOR RAIN WEAR
David Silber, Tompkinsville, Staten Island, N. Y.
Application February 28, 1938, Serial No. 192,971
1 Claim. (Cl. 2—84)



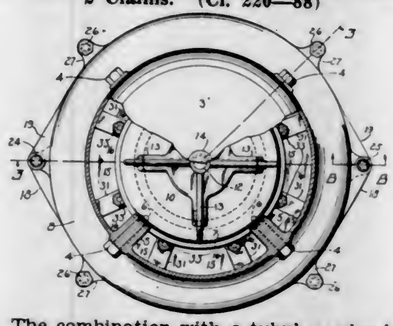
In a combination coat and hood for rain wear, a coat of water proof material having a neck opening with a collar, an auxiliary strip having its top edge portion attached to the interior of said coat below said collar requiring a fold adjacent said point of attachment when the bottom edge of said strip is extended from said neck opening and bent over said collar, and a hood of water proof material having a downwardly extending back edge portion on the bottom, the inner face of which is in face contact with and attached to the outer face of the bottom edge portion of said auxiliary strip.

2,160,683
STORAGE AND DISPENSING SYSTEM
Charles Spaeth, Cleveland, Ohio
Application April 23, 1937, Serial No. 138,635
11 Claims. (Cl. 221—67)



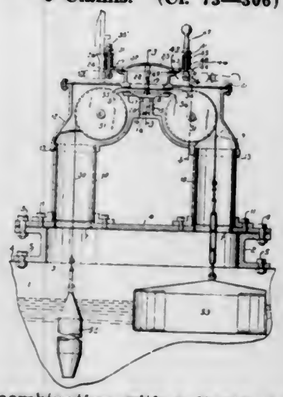
1. In a volatile liquid storage and dispensing system, the combination with a series of atmospherically sealed tanks, a primary manifold normally closed to the atmosphere and connecting the vapor side of each of said tanks, a secondary manifold connected in parallel with said primary manifold, means for venting the secondary manifold, a tube connected to the primary manifold, a nozzle connected to said tube, a hose connection between the nozzle and the tanks, and means for tightly sealing said nozzle in the hatch of a dispensing tank whereby the vapor may pass from the dispensing tank as it is filled with fluid from the storage tanks.

2,160,684
FLAME ARRESTER
Charles Spaeth, Cleveland, Ohio
Application May 28, 1937, Serial No. 145,359
2 Claims. (Cl. 220—88)



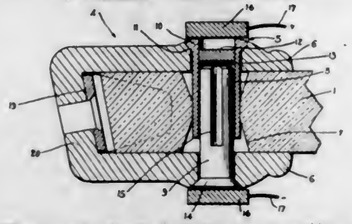
1. The combination with a tubular valve body having its lower end communicating with a storage tank for volatile liquids, a hood positioned over the top end of said valve body and spaced therefrom to provide an annular chamber communicating with the atmosphere, a plate holder communicating with said annular chamber and comprising two semicircular members, means for hinging said members together, means for securing said members to the valve body, and a plurality of perforated plates removably supported in said holder.

2,160,685
FLOAT GAUGE COVER
Charles Spaeth, Cleveland, Ohio
Application August 21, 1937, Serial No. 160,265
6 Claims. (Cl. 73—306)



1. In combination with a liquid storage tank, an indicating casing on top of said tank, an indicating tape passing through said casing for indicating the liquid level in the tank, and said casing having an opening under which said tape passes, a movable cover closing said opening, means in said casing for normally sealing the opening and over which said tape passes whereby said tape is clamped and that portion of the tape below the opening is exposed, and means carried by the cover for releasing said sealing means when the cover is in position closing the opening.

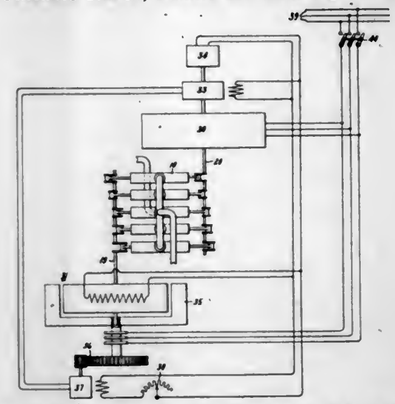
2,160,686
CONNECTING MEANS AND METHOD OF MAKING SAME
Edward M. Splaine and Tracy C. Jarrett, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 25, 1935, Serial No. 51,429
2 Claims. (Cl. 113—112)



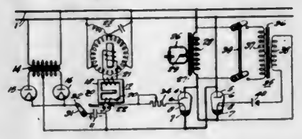
1. The method of forming connecting means and uniting the parts of an opthalmic mounting comprising forming a connecting member with a recess and a separate connecting member with a projection which may be fitted in said recess by sliding axial movement, providing said separate connecting member with a groove which when the said members are in assembled relation with each other will lie between the contiguous surfaces thereof, providing each of said connecting members with means which during use will positively associate them with the parts of the mounting so that when the said connecting members are united said means will hold the parts together, and associating solder-like means having a coating of flux only on one side thereof with the connecting member having the recess therein so that the fluxed coating will be only on the side of the solder-like means towards the other connecting member when the said members are in assembled relation with each other and so that the solder-like means will be held in said recess and in spaced relation with the ends of said connecting member, said flux and solder-like means being so located relative to the assembled parts and having such characteristics that when heat is applied thereto the solder-like means will first melt on the fluxed side thereof and flow in the groove between the parts and when allowed to cool will harden and integrally unite the same, placing said connecting members and parts in assembled relation with each other, and applying heat to said connecting members to cause said solder-like means to melt and flow and allowing the same to cool and secure the said members together.

2,160,687
PLURAL MOTOR CONTROL SYSTEM
Albert Stubbs, Knutsford, England, assignor to General Electric Company, a corporation of New York
Application November 4, 1937, Serial No. 172,810
In Great Britain November 2, 1936
2 Claims. (Cl. 172—293)

1. A driving arrangement for a pair of shafts which are to be operated in selective phase relationship comprising an alternating current induction motor for operating one of said shafts, a synchronous motor for operating the other of said shafts, said synchronous motor provided with a rotatable stator, means for rotating the rotor of said synchronous motor in phase with said induction motor comprising an auxiliary motor for rotating the stator of said synchronous motor, and means for adjusting the speed of said auxiliary motor.



2,160,688
ELECTRIC VALVE CIRCUIT
William H. Teare and Orrin W. Livingston, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application December 29, 1937, Serial No. 182,290
13 Claims. (Cl. 250—27)

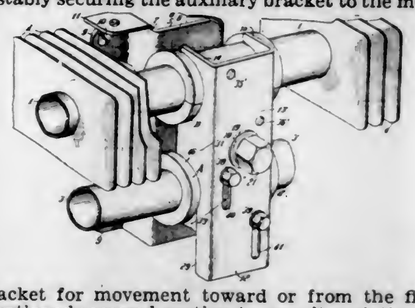


1. In combination, a supply circuit, a load circuit, electric translating apparatus connected therebetween and including an electric valve of the type employing an ionizable medium and having an anode, a cathode and a control member for rendering said electric valve conductive, and a circuit connected across said control member and said cathode for establishing an electric discharge therebetween and comprising a capacitance, means for charging said capacitance and means connected in series relation with said capacitance and said control member for producing voltage to effect discharge of said capacitance.

2,160,689
SUPPORT FOR RADIATING PIPES
John Van Vulpen, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application March 31, 1938, Serial No. 199,078
13 Claims. (Cl. 248—68)

1. A supporting means for radiating pipes comprising a main supporting member, a main bracket member adapted to be secured to the supporting member in spaced relation thereto so as to support a pair of pipes between the bracket and supporting member, one portion of the bracket being recessed to partially enclose one side of a

pipe and hold the pipe against the supporting member, and an auxiliary bracket also recessed to partially enclose a second pipe and clamp it against the supporting member, means for adjustably securing the auxiliary bracket to the main



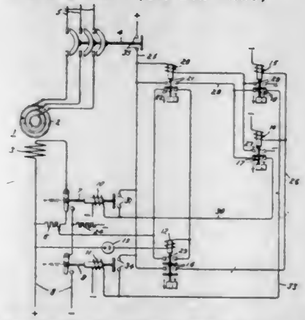
bracket for movement toward or from the first mentioned recessed portion to permit variation in the spacing between the pipes, and means for securing the main bracket to the supporting member in pipe-clamping position.

2,160,690

METHOD AND APPARATUS FOR SYNCHRONIZING SYNCHRONOUS MACHINES

Fred H. Winter, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 29, 1937, Serial No. 182,265
6 Claims. (Cl. 172—289)



1. The method of pulling into step a synchronous motor provided with a field winding which consists in operating the motor with its field winding connected in a closed electric circuit having a predetermined time constant, then connecting said field winding and a source of excitation in a circuit having a shorter time constant, and then increasing the time constant of said last mentioned circuit.

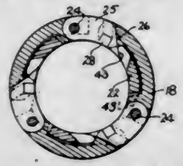
2,160,691

OUTSIDE PIPE CUTTER

Charles R. Edwards, Houston, Tex.

Original application November 16, 1926, Serial No. 148,691, now Patent No. 1,927,310, dated September 19, 1933. Divided and this application September 16, 1933, Serial No. 689,691
17 Claims. (Cl. 164—0.6)

1. A releasable outside pipe cutting device for use in a well bore that includes the combination of: a tubular body having windows in its walls and having threads at its upper end for attaching a single string of pipe for manipulating said device and said body also having threads at its lower end for the attachment of an auxiliary tool for use in removing material from around a stuck pipe, pipe cutters located in said windows in said body, said pipe cutters having cutting edges that can be moved inwardly from outward positions to inward positions to sever a stuck pipe by cutting away a part of a coupling on the stuck pipe, a mandrel movable within said body for use when changing the position of said cutting edges of said cutters from an outward position to an inward position, and a control that includes pipe engaging members movable outwardly and inwardly in other windows as said members pass down and up past the couplings on a stuck pipe and a coiled spring coiled around said members to resiliently force said members inwardly to engage against a stuck pipe and to center the stuck pipe in said device, said device being operative whereby said cutting edges of said cutters may be retained in their outward



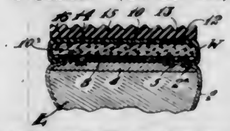
positions when said device is being lowered or raised past the collars on a stuck pipe and also when said device is being lowered and rotated to the right to remove material from around the stuck pipe, said device when said members are engaged on a stuck pipe also being operative through manipulation of said housing to bring said cutting edges of said pipe cutters from their outward positions to their inward positions so that when said cutters are rotated to the right and simultaneously raised against a coupling on the stuck pipe the coupling can be cut away to sever the stuck pipe without serious injury to the long sections of the stuck pipe and also that when said device is withdrawn from the well bore the cut off part of the stuck pipe can be supported in said device and the cut off section can also be removed from the well bore all during a single round trip of said device into the well bore.

2,160,692

FOOTWEAR

Hyman Auerbach, Brookline, Mass., assignor to Continental Shoe Corporation, Boston, Mass., a corporation of Massachusetts

Application January 30, 1939, Serial No. 253,556
1 Claim. (Cl. 36—14)



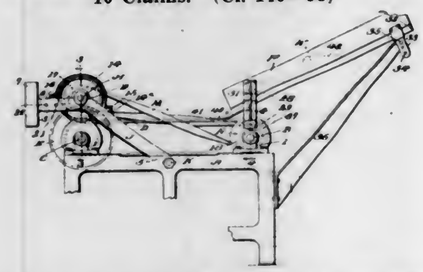
A flexible substantially waterproof sport shoe of the Goodyear welt type comprising an upper, a channeled insole and a crepe rubber welt, the insole having a downwardly directed rib and a marginal feather, the rib and feather extending around the entire periphery of the insole, and the margin of the upper and the edge portion of the welt underlapping the feather of the insole and being united to the rib, bottom filler material filling the central space defined by the rib, a shank extending from the heel end of the insole to the ball portion, and a cork middle sole disposed beneath the insole and in contact with the bottom filler, said middle sole having a heel wedge secured to its under side, characterized in that the welt extends all of the way around the shoe and turns down and wraps about the edge of the middle sole with its margin directed in so as to underlie the bottom of the middle sole, adhesive permanently uniting the inturned margin of the welt to the bottom of the middle sole, filler material disposed in the space defined by the inner edge of the inturned margin of the welt, an outer sole of rubber underlying the middle sole and concealing the inturned lower margins of the welt, and adhesive permanently uniting the outer sole to the inturned margin of the welt.

2,160,693

BEAN-SLICING MACHINE

Mortimer R. Anstice, Rochester, N. Y., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y., a corporation of New York

Application April 18, 1936, Serial No. 75,217
10 Claims. (Cl. 146—98)



1. In an apparatus of the character described, a conveyor and means to operate the same, a series of spaced-apart knives arranged above and having engagement with said conveyor, the cutting edges of said knives disposed in alignment with the direction of movement of said conveyor, a feed mechanism for feeding beans in an end-first manner to said conveyor and to the direction of movement of said conveyor, said mechanism comprising a feed pan arranged at an inclination to said conveyor and having its lower end above and in separated relationship with respect to said conveyor, a flexible apron attached to said feed pan and having contact with the conveyor, means to agitate said feed pan, the bottom of said feed pan provided with corrugations disposed in alignment with the direction of movement of the conveyor, and means in said feed pan to cause the beans to move down the corrugations in an end-first manner, whereby the beans first engage the apron in an end-first manner and pass across the same and engage the conveyor in an end-first manner for delivery in this manner to the knives.

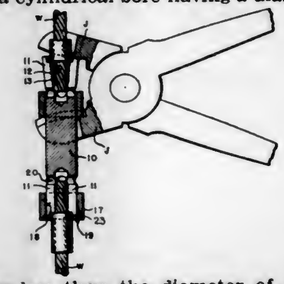
2,160,694

WIRE CONNECTOR

Stephen N. Buchanan, Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey

Application July 9, 1936, Serial No. 89,692
2 Claims. (Cl. 287—75)

1. A wedge-on solderless wire connector comprising a body member, a plurality of contractile clamping fingers having a uniform thickness for a substantial length thereof, the fingers projecting from the end of the body member and at an angle with respect to the surface of the center of the body member, the clamping fingers forming a conical wire receiving bore in the end of the body member and terminating at the inner end thereof into a cylindrical bore having a diameter at least as great as that of the wire to be received therein, the clamping fingers when contracted forming a cylindrical outer surface and throughout the aforesaid substantial length forming a cylindrical bore having a diameter sub-



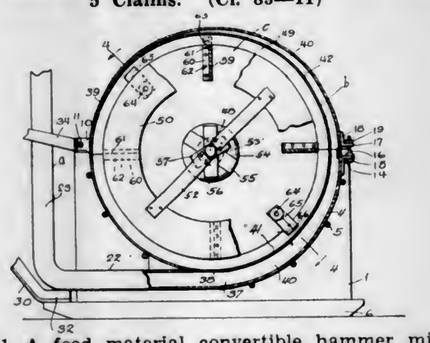
stantially less than the diameter of wire to be clamped therein, and an operating means carried by and forcible axially on the body member and engaging the angularly projecting fingers to contract the same inwardly to a cylindrical shape and grip a wire in the wire receiving bore formed by the fingers.

2,160,695

CONVERTIBLE HAMMER MILL AND SILAGE CUTTER

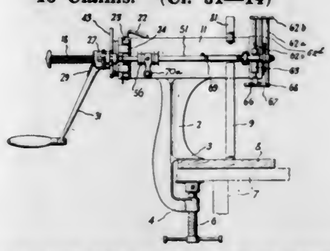
Frank W. Brannon, deceased, late of Luthersville, Ga., by James C. Brannon, administrator, Moreland, Ga.

Application April 7, 1937, Serial No. 135,572
5 Claims. (Cl. 83—11)



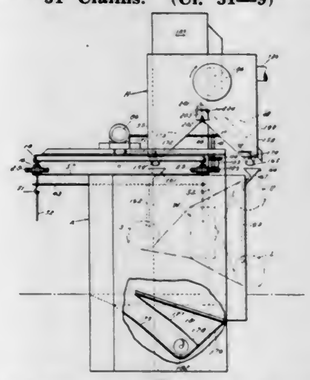
1. A feed material convertible hammer mill and silage cutter including a sectional hinged casing having inlet and outlet openings, each section having mounted therein a detachable screen section so arranged with respect to said casing as to form a discharge passage communicating with said outlet when the casing is closed, a rotatable member journaled within the casing and constituting a combination cutter and hammer, said member including a drive shaft, a disk secured to the shaft, a cutter supporting ring adjacent the inlet opening, spacer rods interconnecting the disk and ring adjacent their peripheries, knife means mounted on and connected to opposite points of the ring for cutting the material as it is fed through said inlet opening, reducing means carried by said spacer rods, adjustable fan blades interconnecting said disk and ring adjacent their peripheries at diametrically opposite points adapted to propel the material through said screen and passage, and hammer means mounted on said drive shaft intermediate said ring and disk rigidly secured to said shaft.

2,160,696
MACHINE FOR SHAPING BUTTER AND LIKE MATERIALS
Umberto Fabbro, Melbourne, Victoria, Australia
Application August 5, 1937, Serial No. 157,611
In Australia January 16, 1937
15 Claims. (Cl. 31—14)



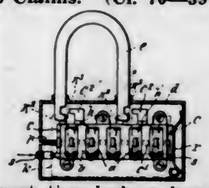
2. An improved machine for shaping butter and like materials, consisting in the combination of a casing forming a compression chamber, a plunger adapted to operate within said chamber, a screw-threaded plunger rod attached to said plunger, a sleeve through which said plunger rod passes, shaping means adapted to shape the pieces of butter or like material as they are extruded from said chamber by said plunger, means associated with said plunger and adapted to sever said shaped pieces into predetermined lengths, a manually operated nut carried by said sleeve, a cam carried by said sleeve adapted to transmit motion to said severing means, said plunger and said casing being rectangular in cross-section, a removable door at the rear end of said casing, said door having a pin-receiving opening, and a positioning pin carried by the plunger and adapted to enter the opening in the door when the plunger is withdrawn to its rearmost position.

2,160,697
ABRADING APPARATUS
Eric O. Hamren, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application February 24, 1936, Serial No. 65,509
31 Claims. (Cl. 51—9)



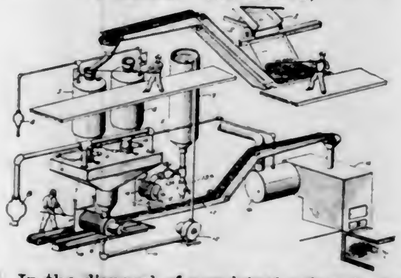
1. In an abrading machine, a circular track disposed in a substantially horizontal plane, a plurality of carriers mounted for guided movement on said track, at least one work support mounted for rotation about a substantially vertical axis on each of said carriers, and means for rigidly interconnecting all of said carriers for synchronous movement about said track.

2,160,698
PERMUTATION LOCK
Hans Herbst, Munich, Germany
Application February 24, 1936, Serial No. 65,511
In Germany February 25, 1935
6 Claims. (Cl. 70—39)



1. In a permutation lock, a housing provided with an open slot, a series of locking elements each including a short cylindrical member and an operating finger, bed plate means fixed in said housing and provided with a series of spaced oppositely curved walls forming recesses into which peripheral portions of said locking elements closely fit, said elements being each provided with a longitudinally extending notch in its periphery, an operating slide slidably mounted in said housing and provided with projections engaging end faces of the locking elements in locked position and movable through the notches upon the locking elements being rotated to aline the notches with the projections, said fingers projecting through the slot to enable the locking elements to be oscillated, a shackle having an end provided with a notch and projecting into the housing in locked position, a latch lug on the slide engaging in the notch to hold the shackle in locked position, removable means to hold the locking elements in said recesses, shoulders on the ends of said locking elements, and leaf springs bearing on said shoulders.

2,160,699
GARBAGE-RUBBISH INCINERATION PROCESS
George W. Kelley, Jr., Philadelphia, Pa., assignor of one-half to Archer M. Soby, Overbrook, Pa.
Application November 3, 1934, Serial No. 751,386
6 Claims. (Cl. 110—8)



1. In the disposal of municipal refuse inclusive of garbage and rubbish, the process which consists in disintegrating the green garbage by heat, extracting free water and fats and entrained solids from the rendered garbage by pressure with the production of a press cake of a combustible solid residue of high fuel value, segregating the extracted fats and entrained solids, separating the said fats from the entrained solids by pressure with the production in the resulting press cake of an additional solid fuel residue, utilizing said residues as a fuel for efficient incineration of said rubbish, generating steam with the heat of said incineration, and employing said steam in the said disintegrating process.

2,160,700
CRYSTALLINE ANHYDROUS MONOCALCIUM PHOSPHATE
William H. Knox, Jr., Nashville, Tenn., assignor to Victor Chemical Works, a corporation of Illinois
No Drawing. Application August 22, 1938, Serial No. 226,180
11 Claims. (Cl. 23—109)

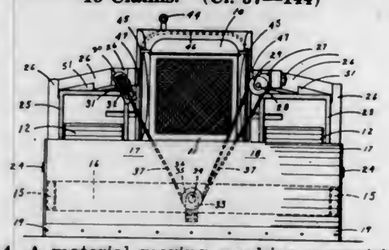
1. The process of making anhydrous monocalcium phosphate, which comprises mixing orthophosphoric acid and lime, the strength of the acid, the degree of hydration of the lime, and the temperature of the material being correlated to spontaneously produce a reaction temperature in excess of 140° centigrade, and the amount of lime being more than theoretically required to produce monocalcium phosphate, and controlling the reacting conditions to maintain at all times during reaction a temperature in excess of 140° C. but below a temperature at which any substantial amounts of pyrophosphate will form and continuing the reaction until a substantially dry mass of minute crystals of solid, non-porous anhydrous monocalcium phosphate is produced, without forming at any time during the process any substantial amount of hydrated monocalcium phosphate.

11. Anhydrous monocalcium phosphate in the form of minute, non-porous crystals, the crystals containing the impurities characteristic of blast furnace acid and containing excess lime sufficient to reduce the neutralizing value to below 95 but above 80.

2,160,701
BAKING PREPARATION
William H. Knox, Jr., Nashville, Tenn., assignor to Victor Chemical Works, a corporation of Illinois
No Drawing. Application August 22, 1938, Serial No. 226,179
9 Claims. (Cl. 99—95)

1. A baking preparation including as its essential acid constituent unground crystals of solid, non-porous anhydrous monocalcium phosphate containing sufficient excess lime to produce a neutralizing value below 95 and above 80, a particle size below 100 mesh, a primary reaction rate with sodium bicarbonate below 50% and a secondary reaction rate therewith above 10%, and having a stability toward hydration such that it will not take up in excess of ¼ mol of water in 24 hours at 39° C. in an atmosphere of 65% relative humidity.

2,160,702
BULLDOZER
Charles Le Bleu, Los Angeles, Calif.
Application April 2, 1937, Serial No. 134,660
15 Claims. (Cl. 37—144)



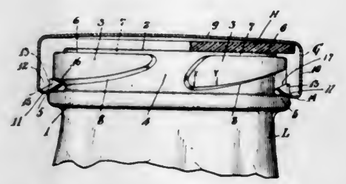
14. A material moving machine comprising a tractor having a body and a pair of track laying units disposed one at each of the opposite sides thereof and journaled behind their front ends thereon for independent vertical swinging movement about a common axis, a pusher frame carrying a scraper at its front end, means mounting the rear end of the pusher frame on the track laying units for swinging movement about a horizontal axis, brackets carried by the track laying units, sheave means mounted on the brackets, sheave means mounted on the front end of the pusher frame centrally of its width, a single flexible means passing about said sheave means and being secured at one end to one of said brackets, and means for controlling said flexible means for swinging the pusher frame about said horizontal axis.

2,160,703
CLEANER FOR CARDING BAR TEETH
Samuel C. Markley, Roanoke, Va.
Application January 30, 1937, Serial No. 123,304
6 Claims. (Cl. 131—57)



1. A push-off or ejector which includes a bar, and a channel-shaped pusher slidably connected therewith, and enclosing the bar on three sides, thereby housing the same, the bar carrying card clothing and the pusher having openings through which the card clothing is adapted to slidably project.

2,160,704
RECEPTACLE AND CLOSURE THEREFOR
Augustus L. Merolle, Brooklyn, N. Y., assignor of one-half to Empire Metal Cap Co., Inc., Brooklyn, N. Y., a corporation of New York
Application September 30, 1932, Serial No. 635,585
Renewed November 18, 1938
6 Claims. (Cl. 215—44)



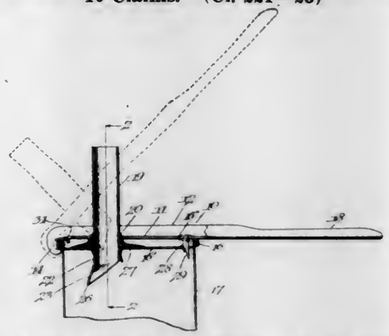
4. A receptacle closure formed from a single piece of sheet metal bent to provide a top wall portion and a pendant marginal flange portion, the lower part of the flange being turned inwardly and upwardly to provide an inner wall, said inner wall having parts of itself at intervals around the closure extending further inwardly toward the center of the closure than adjacent portions of said inner wall so as to constitute lugs adapted for engaging co-operative lugs of a receptacle to hold the closure in position upon the receptacle, and the inwardly extending lug forming part being turned to a relatively lesser degree at adjacent the leading edge of the lug and to progressively increasing degree trailing from said leading edge so that the free edge of said lug forming part provides a working surface inclining upwardly and radially outwardly from the leading edge substantially throughout the circumferential length of the lug.

2,160,705

CAN PIERCING AND SERVING DEVICE

Charles E. McManus, Spring Lake, and Frank L. Darling, Teaneck, N. J., assignors, by mesne assignments, to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 9, 1936, Serial No. 115,034
10 Claims. (Cl. 221—23)



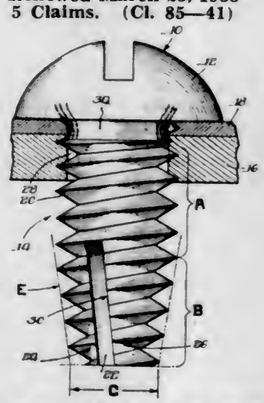
1. A can piercing and serving device comprising a lever having at one end a pair of laterally spaced, downwardly projecting claws engageable under a fulcrum portion provided on a can, a pouring spout in the form of a tube projecting transversely through the lever in both directions and secured thereto, said tube having an entering portion projecting downwardly from the lever and terminating in a piercing point disposed in a vertical median plane between the claws, and means for providing an air inlet in the can top comprising a downwardly projecting pointed stud secured to the lever on that side of said entering portion remote from said claws, said stud having its surface facing said claws disposed on a plane inclined downwardly and rearwardly away from the claws, and a groove extending longitudinally thereof, said groove being closed adjacent the lever, the inclined surface on said stud serving to hold the claws in engagement with said fulcrum portion.

2,160,706

TAPPING SCREW

Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application September 13, 1935, Serial No. 40,464
Renewed March 23, 1938
5 Claims. (Cl. 85—41)



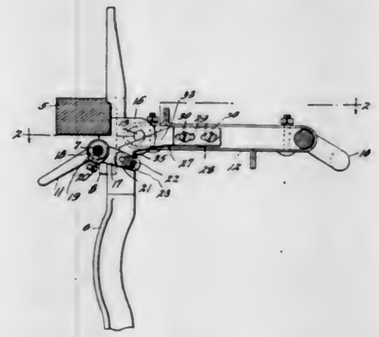
1. A tapping screw fastener including an elongated body having a threaded cylindrical holding portion and a hardened threaded tapping portion at one extremity thereof, a head connected with the opposite extremity of said body, the thread on the tapping portion decreasing in external diameter toward the entering end to facilitate its initial application to an unthreaded aperture in a work piece, and a neck portion extending between said head and the first thread convolution on the holding portion, being of concave configuration and curving outwardly in merging with the underside of said head, whereby to counteract the tendency of fracture in this vicinity when the screw is applied to the work.

2,160,707

LOOM ATTACHMENT

Clyde Alexander Pace, Atlanta, Ga.

Application February 5, 1936, Serial No. 62,520
3 Claims. (Cl. 139—187)



1. A shuttle box tension controlling means adapted to cooperate with the binder tensioning assembly, the latter including the protection rod, spring and dagger, said means comprising an arm adjustably connected to the protection rod and including a contact roller adjustable longitudinally of the arm, a plate connected to the pitman and longitudinally adjustable with respect thereto, an arm connected to the plate and extending outwardly and downwardly in offset relation with respect to the plate and formed with a notch and a cam end surface adapted to engage said contact roller, whereby the cam end surface and the roller are relatively adjustable with respect to the length of travel of the roller on said surface and relative to said notch to preclude lost motion and vary the extent of pressure of the protection rod spring on the binder in accordance with operating requirements.

2,160,708

ELECTRICAL APPARATUS

Roger Beauchamp Peacock, Knebworth, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application January 2, 1936, Serial No. 57,323. In Great Britain January 23, 1935
3 Claims. (Cl. 106—15)

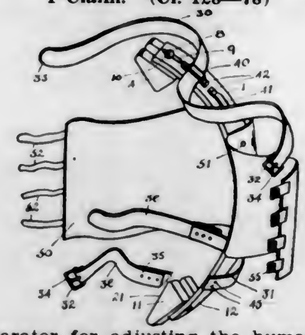
2. An insulating material for use in electrical equipment comprising essentially a benzyl chloride condensation product prepared by heating benzyl chloride for a prolonged period in the presence of stannous chloride as catalyst, together with chlorinated diphenyl.

2,160,709

SEPARATOR FOR ADJUSTING THE HUMAN VERTEBRAE

Arthur C. Peckham, Watertown, N. Y.

Application March 13, 1936, Serial No. 68,676
1 Claim. (Cl. 128—78)



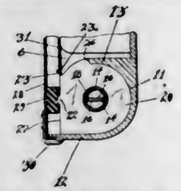
A separator for adjusting the human vertebrae, consisting of a resilient arched member of a length of a plurality of vertebrae, having pads at the extremity thereof on the concave side of said arched member and a belt on the resilient member overlying the convex side approximately at the middle thereof for attachment to the body, whereby tightening said belt the pads will separate and spread the vertebrae between the pads.

2,160,710

FILM SPOOL AND HOLDER

Bruno C. Roehrl, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware

Application December 10, 1936, Serial No. 115,084
4 Claims. (Cl. 95—31)



4. In combination, a camera and film holder, said camera having a chamber for receiving said holder, a partition in said camera forming one wall of said chamber, said holder comprising film guide flanges and a hub rotatably journalled therein, a bridge connecting said flanges at one side, said flanges having shouldered portions engaging the upper edge of said partition and said flanges substantially conforming to the shape of said chamber, a cover for said camera and chamber, and resilient means on said cover for engaging said bridge to secure said holder against movement.

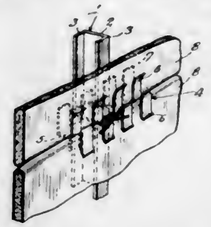
2,160,711

WALL STRUCTURE

Bruno E. Balduf, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application November 19, 1936, Serial No. 111,701
2 Claims. (Cl. 72—118)

1. In a wall structure, the combination of a series of supports, plaster-receiving boards, board-engaging devices embracing the edges of said boards and being capable of embracing the edges of adjacent boards so as to fasten them together in aligned relationship, and connecting



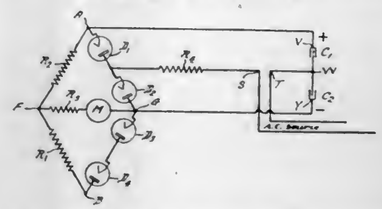
means holding said devices to said supports, said connecting means being looped around said supports and secured on the side of the boards opposite the supports.

2,160,712

METERING CIRCUIT

Job R. Barnhart, Lakewood, Ohio

Application May 3, 1937, Serial No. 140,475
9 Claims. (Cl. 171—95)



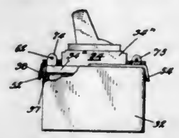
7. A rectifying and metering circuit comprising a rectifying portion including rectifying electronic valve means, a source of current connected to supply an alternating voltage across said valve means, a meter connected in parallel with said valve means and separate electronic valve means connected in parallel with said meter, said valve means being arranged so that only dissimilar terminals are connected together.

2,160,713

MEANS FOR MOUNTING INTERCHANGEABLE ELECTRIC DEVICES

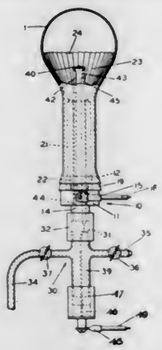
Robert H. Bentley, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut

Application October 7, 1937, Serial No. 167,862
9 Claims. (Cl. 174—53)



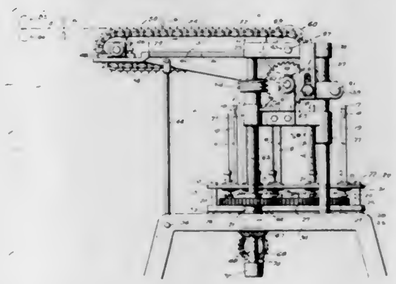
1. In an electric wiring apparatus, a supporting bridge having an aperture therein, a wiring device comprising a shell having an open front face, a cover for said face opening, said cover having a neck extending through said bridge aperture, a frame for holding said cover and shell together, and means engaging with said frame to hold said device on said bridge.

2,160,714
APPARATUS FOR INTERIORLY COATING LAMPS, TUBES, AND THE LIKE
Orrick H. Biggs, Beverly, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Original application July 20, 1932, Serial No. 623,504. Divided and this application December 31, 1937, Serial No. 182,735
7 Claims. (Cl. 91—12.2)



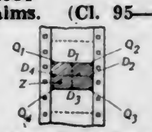
1. An apparatus for coating the interior surfaces of tubes with metal comprising in combination a metal vaporizing apparatus, means for supporting a tube in enclosing relation thereto, means for evacuating said tube while in such relation, and shielding means, adapted to be collapsed during insertion and removal thereof from the tube, for preventing the deposition of metal upon surfaces desired to be left uncoated.

2,160,715
MACHINE FOR MAKING BRAIDED WIRE NETTING
Sidney B. Blaisdell, Wyncote, Pa., and Robert J. A. Ingouf, Kingsport, Tenn., assignors to Fidelity Machine Company, Wilmington, Del., a corporation of Delaware
Application June 19, 1936, Serial No. 86,184
25 Claims. (Cl. 140—7)



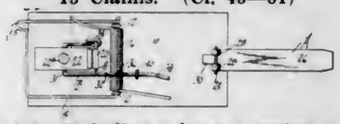
1. A wire mesh fabric making apparatus comprising a plurality of continuous body wire supplies means for drawing from said supplies and interlacing a plurality of said continuous wires with said wires disposed in laterally spaced intersecting relation one to another and passing over and under each other to and from the opposite faces of the fabric at predetermined intersections respectively, and means for integrally uniting said wires at predetermined intersections.

2,160,716
DIAPHRAGM FOR LENTICULATED FILMS
André Blondel, Paris, France
Original application June 8, 1935, Serial No. 25,655. Divided and this application December 30, 1936, Serial No. 118,346. In France November 12, 1934
4 Claims. (Cl. 95—64)



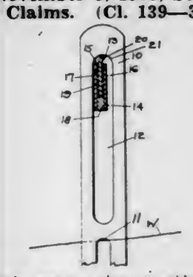
1. Method of making a diaphragm for inclusion in a system of color cinematography on lenticular films, which method comprises the steps of stenopeically projecting light through small apertures in the corners of an opaque screen which is arranged in the plane where a picture on a film is to be placed in normal operation of the system and which has the same dimensions as said picture, recording the contours of the luminous fields projected from said apertures in the plane where the diaphragm to be made is to be placed in normal operation of the system, and making a diaphragm of size corresponding to that of the area common to said luminous fields projected on said plane.

2,160,717
MOUSE AND RAT TRAP
Olin R. Booth, Cainsville, Mo.
Application March 12, 1937, Serial No. 130,595
15 Claims. (Cl. 43—81)



8. A trap including a base, a spring, a holder loop actuated thereby and a bait bar on the base and located on one side of the spring, bait bar raising means including an element having a portion thereof extending substantially longitudinally of the base and overlying said spring and having means for positioning and pivoting said element on said base at said spring, with one end of said element associated with said bait bar for raising it when the other end thereof is depressed, said other end being located on the opposite side of said spring and constituting a finger engaging operating handle.

2,160,718
DETECTOR BAR
Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application November 9, 1938, Serial No. 239,665
3 Claims. (Cl. 139—353)



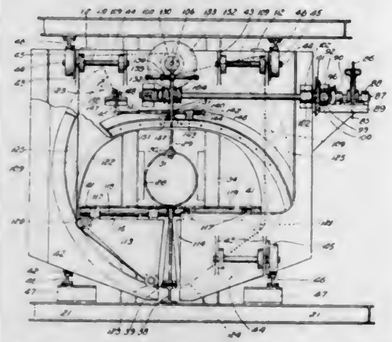
1. An electric warp stop motion detector bar

comprising a pair of horizontal contact bars, one of said contact bars having side walls and a bottom portion forming a channel which is open at its top, the side faces of said contact bar being substantially vertical, and the other of said contact bars consisting of a relatively thin strip of metal fixed in said channel and insulated from the first said contact bar, said other contact bar having a horizontal upper edge located above and vertically over one of said side walls but between the planes of said side faces.

2,160,719
PREGNANOLONES AND METHODS FOR PRODUCING THE SAME FROM PREGNANDIOLS
Adolf Butenandt, Danzig-Langfuhr, Free City of Danzig, assignor to Schering Aktiengesellschaft, a corporation of Germany
No Drawing. Application December 24, 1934, Serial No. 759,115. In Germany December 23, 1933
12 Claims. (Cl. 260—397)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. In a method for the production of pregnanolon compounds, the steps which comprise subjecting a pregnandiol to a treatment whereby one hydroxy group is substituted by a group which on hydrolysis is reconvertible into a hydroxy group, and oxidizing the free secondary alcohol group to the keto group.

2,160,720
METHOD AND APPARATUS FOR FORMING PIPES
Kearney Butcher, Essendon, Victoria, Australia
Application November 3, 1936, Serial No. 109,053
In Australia November 28, 1935
16 Claims. (Cl. 153—39)

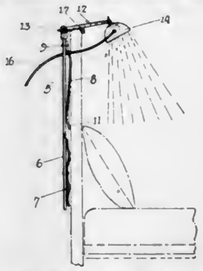


1. A method of forming metal pipes or pipe sections which comprises disposing a metal sheet against a mandrel, disposing forming members against the metal sheet on each side of the centre thereof with their axes extending substantially from the centre to the side edges of the metal sheet, reciprocating the forming members along the metal sheet, and progressively turning the forming members about the mandrel in such a manner that throughout their motion the forming members maintain the sheet against the mandrel substantially along the line at which the said sheet is being bent.

2. Apparatus for forming metal pipes or pipe sections by bending a metal sheet around a mandrel, which comprises an anvil extending longitudinally of the mandrel and adapted to hold the

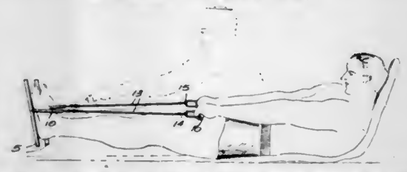
centre of the sheet against the mandrel, a carriage arranged to reciprocate longitudinally of the mandrel, means for imparting the reciprocating motion to the carriage, roller carriers carried on the carriage, forming rollers rotatably mounted on the roller carriers and disposed transversely of the mandrel on opposite sides of the anvil, and means associated with the carriage for progressively turning the roller carriers in opposite directions about the mandrel.

2,160,721
LIGHTING EQUIPMENT
Paul L. Coulter, Santa Monica, Calif.
Application January 18, 1938, Serial No. 185,606
1 Claim. (Cl. 248—205)



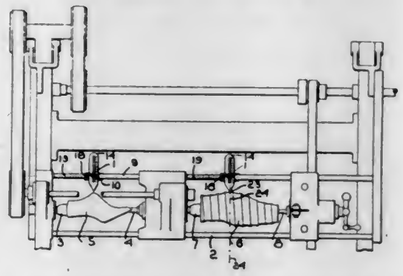
A combination book, bed, and desk lamp embodying in its construction a standard and a base hingedly connected to said standard, a clip pivoted to said standard and adapted to be positioned behind the central binding of a book when the device is used as a book lamp, a bar pivoted to said base and normally lying parallel thereto when the device is utilized as a book lamp and movable at right angles thereto when the device is employed as a desk lamp, and a reflector adjustably secured to said standard.

2,160,722
FOOT EXERCISER
John A. Cunningham, Bethlehem, Pa., assignor of one-half to Mary Cunningham, Bethlehem, Pa.
Application October 11, 1937, Serial No. 168,510
1 Claim. (Cl. 272—70)



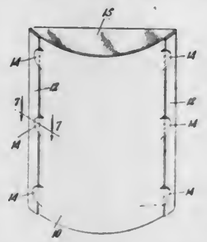
In an exercising device, a foot piece, an enlargement formed on the upper surface of the foot piece adjacent to the inner edge thereof and shaped to conform to the shape of an instep of a person's foot, said foot piece having a bore extending transversely therethrough, a bracket comprising a length of heavy wire material, the ends of the bracket extending into the bore and having a yieldable loop formed intermediate the ends thereof, said bracket adapted to pivot with respect to the foot piece, a yieldable cable hooked into the loop, a handle at the free end of the cable, said bracket adapted to swing according to the direction of pull directed thereto by said cable, and tubular cushioning members covering portions of the bracket.

2,160,723
LAST BLOCK GAUGE FOR LAST LATHES
Everett Eldridge, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio
Application October 24, 1936, Serial No. 107,344
2 Claims. (Cl. 142—55)



1. In a last lathe having model and block holding and manipulating instrumentalities, a gauge associated with said model holding instrumentality, a scale on said gauge for indicating the position of the model in the lathe, a gauge associated with said block holding instrumentality, an adjustable arm on said latter gauge and a scale on said latter gauge corresponding to said first mentioned gauge, whereby the gauging arm on said latter gauge may be adjusted to a position corresponding to the gauging position of said first mentioned gauge.

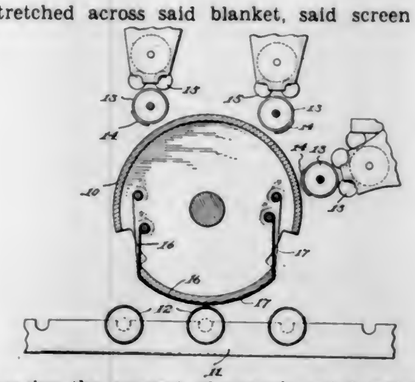
2,160,724
DISPLAY DEVICE
Joseph Alan Fletcher, Ridgewood, N. J., assignor of one-half to Robert Newbold, New Rochelle, N. Y.
Application November 26, 1937, Serial No. 176,539
17 Claims. (Cl. 40—125)



1. The combination with a suitably elastic card having hinged strips at opposite sides, of a flexible display sheet secured to said hinged strips, the distance between the hinges of the respective strips being greater measured along said card than along said sheet whereby said card is bowed and the display sheet is tensed by the bowed elastic card.

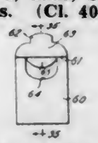
2,160,725
APPARATUS FOR DECORATING GLASSWARE AND OTHER ARTICLES
Francis C. Flint, Zanesville, Ohio, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application June 14, 1938, Serial No. 213,685
4 Claims. (Cl. 101—217)

4. A transfer cylinder for printing on glass surfaces with ceramic paint, including a transfer blanket of resilient material, and a silk screen stretched across said blanket, said screen in-



creasing the amount of ceramic paint which is delivered to the glass surface.

2,160,726
TAG
Carl A. Flood, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application June 1, 1936, Serial No. 82,737
6 Claims. (Cl. 40—20)

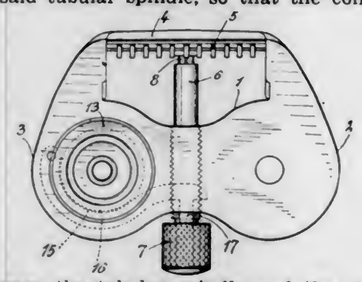


1. A tag having an opening therein with two portions of the tag disposed on two opposite sides of the opening respectively, tongue means having free ends for anchoring fabric in the opening, said means comprising two fabric-retaining thicknesses of material cemented together and fast to one of said portions and long enough to extend across the opening with free ends in juxtaposition to the edge of said other portion, said free ends being substantially narrower than the opening to provide substantial clearance spaces on each side of the ends so that with fabric between the ends and the body of the tag both ends may be pressed through the opening with the fabric extending through said clearance spaces, and one of said ends overlapping said edge so that the fabric is interlocked between the end and edge when the ends are pressed through the opening as aforesaid.

2,160,727
SAFETY RAZOR WITH RIBBON SHAPED BLADE
Nicolay Knudtzon Fougner, Lilleaker, near Oslo, Norway, assignor of one-half to Eivind Jensen Eckbo, Oslo, Norway
Application November 30, 1937, Serial No. 177,308
In Norway September 1, 1937
1 Claim. (Cl. 30—40)

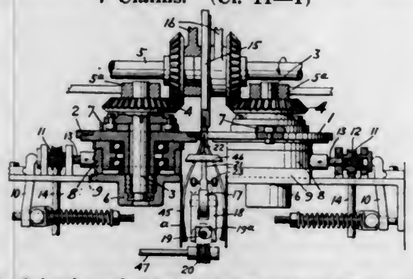
A safety razor comprising an oblong flat frame having a rib extending transversely across approximately the middle of one longitudinal side thereof, a spool in one longitudinal end of the frame, a continuous ribbon shaped razor blade having one end secured to said spool, said spool being rotatable to wind used portions of said ribbon shaped blade thereon, the other end portion of said blade being coiled in the other longitudinal end of said frame, a clamping and guard member in said frame below said rib and between said

longitudinal ends, said clamping and guard member being displaceable transversely of the major axis of the frame and adapted to clamp said blade into shaving position against said rib, means for moving said clamping and guard member comprising an externally threaded tubular spindle provided with an open end, said spindle being connected to said clamping and guard member through the medium of a trunnion secured to said member and frictionally engaging in the open end of said tubular spindle, so that the connection



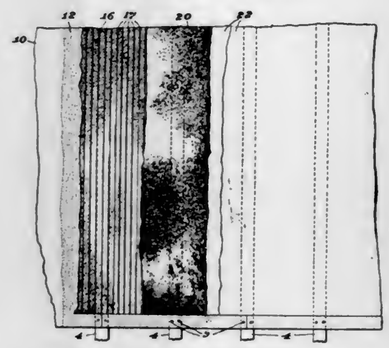
between the tubular spindle and the clamping and guard member may be released by overcoming the frictional resistance when the said member has been moved a sufficient distance from said rim, and a locking device for said spool, said locking device being connected to said tubular spindle and movable into locking engagement with said spool when the tubular spindle is actuated to move the clamping and guard member into engagement with the ribbon shaped razor blade and out of locking engagement when said razor blade is disengaged.

2,160,728
BOOKMAKING APPARATUS
Allen L. Grammer, Meadowbrook, Pa., assignor to The Curtis Publishing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 6, 1937, Serial No. 167,507
7 Claims. (Cl. 11—1)



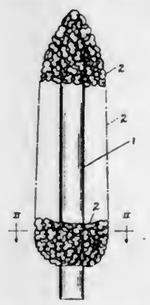
1. A book making apparatus comprising a pair of positively driven spring pressed squeeze rolls arranged substantially at the same level with portions of their peripheries spaced opposite each other, a positively driven presser roll mounted for rotation in respect to a fixed axis and having its periphery in confronting relation to said space, a series of carrying wheels arranged in a row and spaced from the periphery of the presser roll, a series of blade elements mounted to travel on the carrying rolls and arranged to enter the space between the squeeze rolls and to clear the periphery of the presser roll, a spring pressed guide shoe mounted for oscillation parallel to itself and arranged in the path of the oncoming blade elements and adapted to smooth an assembly of sheets with a peaked back into the bite of the squeeze and presser rolls.

2,160,729
SOUND-DEADENING WALL AND MATERIAL
James E. Graham, Needham, and Edwin M. Lines, Dedham, Mass., assignors to Bird & Son, Inc., East Walpole, Mass., a corporation of Massachusetts
Application July 9, 1936, Serial No. 89,790
12 Claims. (Cl. 20—4)



1. In association with a building wall construction which includes a permanent wall portion and a layer of wall board affixed to said permanent wall portion and providing a continuous wall board backing, an adherent flexible multi-layer unit adhesively secured to said wall board backing, said unit comprising a series of layers, including a porous open water-laid felt layer adjacent said backing, a water-proof saturated felt layer permanently united to said felt layer, said water-proof saturated layer having permanently united thereto upon the exposed surface thereof a relatively light-colored pigmented surface coating.

2,160,730
CONFECTION
William S. Hackett, Wilkinsburg, Pa.
Application February 18, 1938, Serial No. 191,255
1 Claim. (Cl. 99—138)



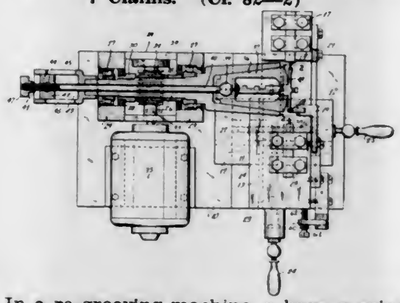
A candy cluster formed in counterfeit of an ear of corn and consisting of an elongate edible core of relatively small diameter formed in simulation of the cob of an ear of corn, a relatively thick surrounding mass of pop-corn integrated with sugar, built upon and internally embedded in the core and molded externally to the shape of a naked ear of corn, and a protecting jacket of a material resistant to the adhesion of the sugar-integrated mass of pop-corn and simulating the opaque husk of an ear of corn.

2,160,731
DENTAL PENCIL
Arthur Haeberlin, Zurich-Albisrieden, Switzerland
Application May 18, 1938, Serial No. 208,677
2 Claims. (Cl. 32—58)



1. An element intended for cleaning teeth and for massaging the gum, said element having the form of a rod and consisting of substantially longitudinally extending wood fibre threads, and a binder of boric acid, the whole being compacted under sufficient pressure to combine the elements in stick form, said fibres being suitably stiff and having the property when in use, of coming apart and erecting themselves at the rubbing surface in the form of a brush after the binding agent has been dissolved in the saliva.

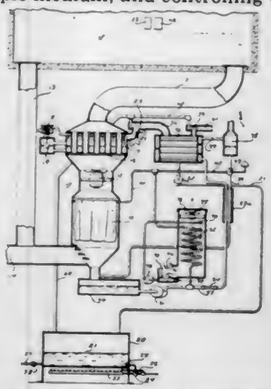
2,160,732
GROOVING AND SURFACING MACHINE
William H. Haynes, Little Rock, Ark.
Application December 3, 1937, Serial No. 177,868
7 Claims. (Cl. 82—2)



1. In a re-grooving machine, a base, a spindle rotatably supported on said base, a chuck carried by said spindle, a tool carrying member provided with means to move it both laterally and longitudinally of said base, tools carried by said tool carrying member and disposed on opposite sides of the axis of the spindle, a finger secured to the tool carrying member in alignment with said tools and adapted to align the tools with a groove of the work carried in the chuck.

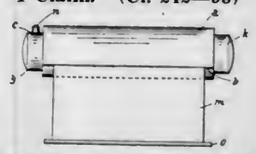
2,160,733
REFRIGERATING APPARATUS
Charles F. Henney, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 18, 1934, Serial No. 707,114
14 Claims. (Cl. 62—6)

14. The method of conditioning gas from an enclosure which comprises, flowing gas to be conditioned over a hygroscopic medium so as to remove moisture from said gas, flowing gas to be conditioned over a cooling element, maintaining said element cool by evaporating a first body of water at a relatively low pressure, maintaining said low pressure on said first body by means of steam at a relatively higher pressure from a second body of water, condensing said steam, utilizing the heat of condensation for regenerating said hygroscopic medium, and controlling the removal



of moisture in response to humidity conditions in said enclosure.

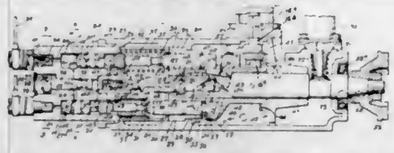
2,160,734
SELF-WINDING RECORDING DEVICE
Ernst Johan Jens Henriksen, Copenhagen, Denmark
Application August 4, 1937, Serial No. 157,451
In Denmark August 10, 1936
1 Claim. (Cl. 242—98)



In a self-winding recording device, the combination of a cylindrical longitudinally slitted casing open at one end, a push-button radially slidable in the closed end of the casing and provided with a hole, ratchet teeth formed on the outer edge of the open end of the casing, a detachable shaft disposed axially within the casing, a cap rigidly attached to one end of the shaft, ratchet teeth formed on the inner surface of the cap for engagement with the aforesaid ratchet teeth on the casing, a conically recessed portion formed on the other end of the shaft for engagement in the hole in the push-button, a spring pressing outwardly on the push-button, a spool disposed rotatably on the shaft within the casing, a helical spring encircling the shaft for connecting it yieldingly with the said spool, a recording strip attached by one of its ends to the spool, and a bar attached to the other end of the recording strip to prevent its passing through the slit in the casing.

2,160,735
METERING PUMP
James F. Hoffer, Detroit, Mich., assignor to Ex-Cell-O Corporation, a corporation of Michigan
Application May 29, 1935, Serial No. 23,970
3 Claims. (Cl. 123—139)

1. A pump comprising, in combination, a body having an inlet bore and a plurality of parallel annularly arranged cylinders with discharge passages opening respectively from the closed ends of said cylinders and inlet passages opening from said bore respectively to the sides of said cylinders, said inlet passages opening tangentially from said bore so that the discharge of fluid thereto will impart a swirling motion to the fluid in said bore tending to effect uniform distribution of fluid to said inlet passages, a throttle member slidably disposed in said bore and being axially adjustable to vary the effective inlet areas of said inlet passages, a plurality of pump plungers mounted for reciprocation and rotary adjustment respectively in said cylinders, means for reciprocating said plungers in timed sequence, each of said plungers being formed with a peripheral groove vented to



the closed end of the associated cylinder and movable at the end of the effective portion of the pressure stroke of the plunger into communication with the associated inlet passage to effect pressure relief, and with a peripheral inclined land area in advance of said groove and movably reversibly across said inlet passage to open and close the latter respectively at the end of the suction stroke and the beginning of the pressure stroke, and means for simultaneously rotatably adjusting said plungers to vary the effective position of said areas relative to said inlet passages.

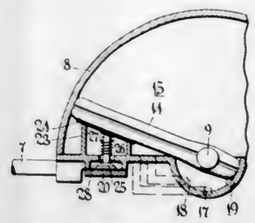
2,160,736
WINDOW WIPER
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 20, 1936, Serial No. 59,947
15 Claims. (Cl. 15—250)



1. A window wiper comprising a resilient wiping strip, a channeled holder embracing the strip within its channel, and an attaching clip pivotally mounted on the holder, said clip having a part engageable with a portion of said strip within the channeled holder through an opening in the latter for yieldably resisting pivotal movement of the clip on the holder.

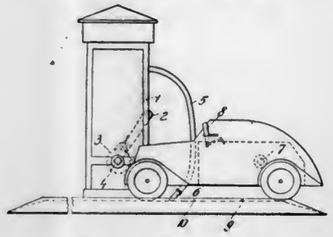
2,160,737
WINDSHIELD CLEANER SYSTEM
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application June 10, 1937, Serial No. 147,506
8 Claims. (Cl. 60—60)

1. A windshield cleaner system for motor vehicles, comprising a suction generator continuously operable by and during operation of the vehicle engine, a wiper, a suction operated motor connected by a suction line to the generator and operable to move the wiper on the windshield, a



control valve for starting and stopping the operation of the motor, and means operable by the motor for partially venting the suction line to relieve the latter of excessive suction when the generator is operating and the suction operated motor is at rest.

2,160,738
DEVICE FOR WINDING UP SPRING-DRIVEN CLOCKWORKS OF TOY VEHICLES
Ernst Horn, Nuremberg, Germany
Application December 13, 1938, Serial No. 245,485
In Germany April 29, 1938
5 Claims. (Cl. 46—39)

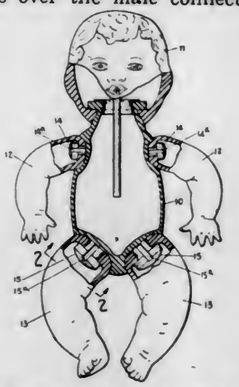


1. A device for winding-up the spring-driven clockwork of a toy-vehicle, said device comprising a post-like structure or casing simulating a gasoline supply station, or depot, and mechanism associated with said structure or casing, said mechanism adapted to be connected to or disconnected from the winding-stem of said clockwork.

2,160,739
RUBBER DOLL
Forrest S. Hugus, Barberton, and Lester R. Lower, Akron, Ohio, assignors to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application September 3, 1938, Serial No. 228,386
1 Claim. (Cl. 46—161)

The combination in a hollow rubber doll structure of a torso having thereon male connector members with enlarged retaining flanges and hollow appendages engaged over said connector members to be secured to said torso by said flanges providing articulating joints, said male connector members having openings comprising radial notches formed therein, each such opening extending inwardly from the periphery thereof through the contacting part of the joint and also through the flange whereby the appendages are vented and whereby the flanges may be squeezed circumferentially to move the walls of the notches together whereby the flanges will be

of a reduced size to facilitate engagement of the appendages over the male connector members,



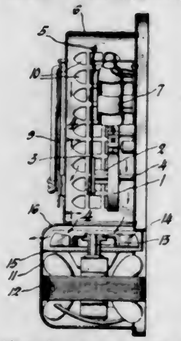
said flanges being capable of being thus reduced in circumference without buckling.

2,160,740

ROOM THERMOSTAT

William H. Hutchins, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 10, 1936, Serial No. 73,621
1 Claim. (Cl. 200—138)



The combination in a room thermostat, of an electric switch and a thermostatic element for operating said switch, an electric motor, and a fan driven thereby, means substantially enclosing all of said elements and providing a plurality of chambers comprising a first chamber enclosing said switch and thermostatic element, a second chamber enclosing said fan, and a third chamber enclosing said motor, said first and second chambers communicating with each other and formed with air inlet and outlet openings whereby said fan will circulate air from outside of said means over said thermostatic element.

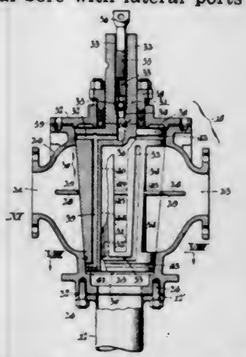
2,160,741

DISTRIBUTOR CONTROL VALVE FOR TANK VEHICLES

James A. Jensen and Ralph B. Ziegler, Philadelphia, Pa., assignors to Quaker City Iron Works, Philadelphia, Pa., a corporation of Pennsylvania

Application February 5, 1937, Serial No. 124,189
13 Claims. (Cl. 251—93)

1. In liquid distributor control systems as hereinbefore defined a multi-way control comprising a valve casing with circumferentially-spaced branches and a flow inlet, an annular flow separating flange in the casing having a coaxial orifice; and a valve member in said casing having an axial bore with lateral ports and including a diaphragm portion coactive with the casing flange aforesaid in defining different flows through the control.

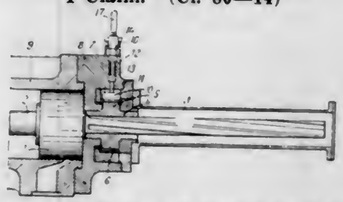


2,160,742

TUBE ROLLING MILL

Max Landrieu, Paris, France, assignor to Société Anonyme d'Escaut & Meuse, Anzin, France, a corporation of France

Application August 13, 1936, Serial No. 95,909
In France February 27, 1936
1 Claim. (Cl. 80—14)



In a tube rolling mill for rolling tubes between an internal mandrel and external rolls, a cylinder, a piston arranged for reciprocation in said cylinder carrying a screw with a single pitch thread and adapted for driving the mandrel, a cover plate for said cylinder, a single nut in engagement with said screw housed within a chamber in the cover plate, means permitting partially vaned tubes to rotate during working passes of the non-vaned parts comprising ratchet teeth on the outer periphery of said single nut, pawls adapted for engaging said teeth and a member with ramps shiftable about the axis of said screw and adapted for separating said pawls from said teeth in order to stop the rotation of the mandrel for rolling a tube part of non-circular section, and means carried by the cover plate adapted to be engaged by said member so as to limit the shifting thereof.

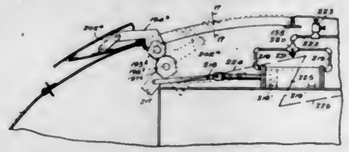
2,160,743

DOOR ACTUATING MECHANISM FOR LOCOMOTIVE TENDER FUEL DOORS

William L. Lentz, Tuckahoe, N. Y., and Carl F. Kantola, Ashtabula, Ohio, assignors to The New York Central Railroad Company, a corporation of New York

Original application September 26, 1935, Serial No. 42,342, now Patent No. 2,148,078, dated February 21, 1939. Divided and this application August 4, 1936, Serial No. 94,271
10 Claims. (Cl. 105—237)

1. A locomotive tender having a top wall provided with fuel inlets on opposite sides of the center thereof, doors for closing said inlets, actuating rock shafts for the doors, means for transmitting positive actuating motion to one of said



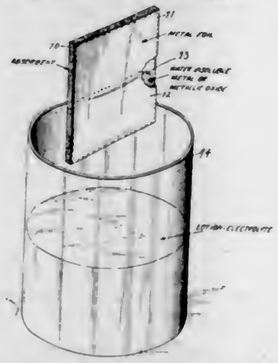
shafts, and a compensating link and lever connection between said shaft and the other shaft for simultaneously transmitting door actuating motion to the latter-named shaft.

2,160,744

METHOD OF AND PAD FOR HAIR WAVING

Carl J. Lewit, Atlanta, Ga., assignor to Industrial Development & Research Laboratory, Inc., Atlanta, Ga., a corporation of Georgia

Application June 26, 1936, Serial No. 87,592
5 Claims. (Cl. 132—36.2)



5. A hair waving pad capable of generating heat when moistened with an electrolytic solution suitable for use as a hair waving lotion comprising only water-insoluble metalliferous materials and including at least two substances chosen from the group consisting of copper oxide, copper, magnesium, aluminum, and zinc.

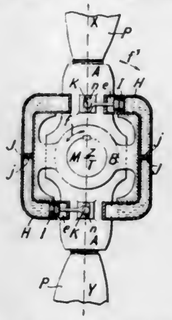
2,160,745

PROPELLER FOR AIRCRAFT AND THE LIKE

René Lucien Lévy, Montrouge, France, assignor to Société d' Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland

Application May 16, 1935, Serial No. 21,856
In France June 5, 1934
3 Claims. (Cl. 170—162)

1. In a propelling mechanism, a driving shaft, an intermediate hub fixed to said shaft, a propeller hub rotatably mounted on said intermediate hub, propeller blades rotatably mounted in said propeller hub, a resilient coupling including pneumatic cylinders rigid with one of said hubs, and piston members arranged in said cylinders and connected to the other hub for transmitting the rotary motion of the driving shaft to said propeller blades, said resilient coupling responding during rotation of said shaft whereby an angular displacement occurs between the propeller hub and said shaft, means connecting said intermediate hub with said blades for varying the pitch of said blades a definite relative value for each value of said angular displacement, and diaphragms in said cylinders having openings for retarding the movement of fluid in said cylinders.

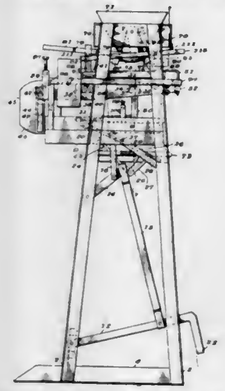


2,160,746

BAG FILLING AND WEIGHING MACHINE

John M. Low, Richmond, Va.

Application August 19, 1936, Serial No. 96,871
3 Claims. (Cl. 249—61)



1. An automatic bag filling and weighing machine including a vertical frame, an open bottom feed trough positioned on the top of said frame, a pair of oppositely swinging valves pivoted on common pivots normally closing said open bottom, manually operated lever means for initially opening one of said valves, pivoted scale beams attached to said frame below said feed trough, said beams initially opening the other of said valves, a bag holder secured to said scale beams, the bag held thereby adapted to receive material from said feed trough, and a trip device carried on said scale beams adapted to close one of said swinging valves when a predetermined amount of material has been deposited in said bag.

2,160,747

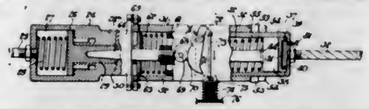
SAFETY CONTROL FOR HYDRAULIC BRAKE APPLIANCES

Margaret B. Mayer and Frederick S. James, Philadelphia, Pa.

Application August 4, 1937, Serial No. 157,252
5 Claims. (Cl. 188—3)

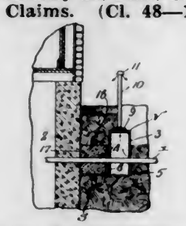
1. The combination with a tractor vehicle and a trailer vehicle, of a separate braking system on each of said vehicles, means including a fifth wheel on the tractor vehicle to couple the vehicles

together, a brake coupling including a housing and a sliding piston as parts thereof to connect the two braking systems, and mechanism on said housing coacting with the piston and spring actuated in one direction to urge the piston in a direction to apply the trailer braking system, said mechanism including means to be actuated by



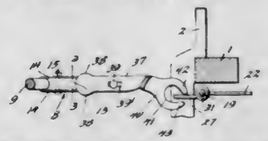
said fifth wheel for releasing the trailer braking system to permit its operation simultaneously with the tractor braking system by an operator, in combination with manually operable means on the tractor to actuate the piston for applying the trailer brakes independently of the tractor braking system and while the vehicles are coupled together.

2,160,748
SAFETY DEVICE FOR GAS-LINE LEAKAGE
Guy Maynard, Lexington, Mass.
Application February 26, 1938, Serial No. 192,856
9 Claims. (Cl. 48—193)



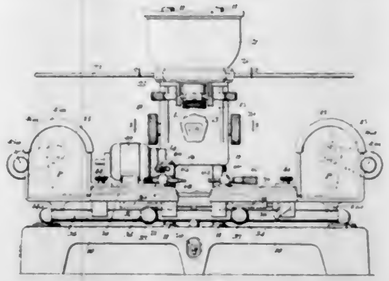
9. A safety device for preventing leaking gas from following a pipe-line into a building comprising a hollow vent casing and a hollow seal casing each having aligned openings to permit the casings to be fitted over a pipe, the vent casing having an opening in its upper portion to permit the escape of gas, one of said casings having a vertical slot, and means extending through said slot for interlocking the two casings against angular movement relative to each other about the pipe-line.

2,160,749
LOOM ATTACHMENT
Julius Edward McCarvey, Griffin, Ga.
Application July 17, 1937, Serial No. 154,312
5 Claims. (Cl. 139—187)



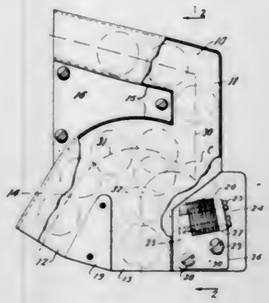
1. The combination with the reciprocatory pitman, rockable lay, and rotatable protection rod of a loom, said rod carrying a dagger and being devoid of the usual tensioning spring, of means for controlling the movement of said rod, said means comprising a movable sleeve having a cam arm mounted on said protection rod and having a flexible connection with said rod, stationary means mounted on said rod limiting the rotative movement of said sleeve, and means carried by said pitman co-acting with said cam arm to effect positive and intermittent movement of said cam arm and rod in opposite directions during the cycle of movement of said pitman.

2,160,750
PHOTOGRAPHIC COMPOSING MACHINE
Louis Meyer, New York, N. Y., assignor, by mesne assignments, to American Type Founders, Inc., Elizabeth, N. J., a corporation of New Jersey
Application August 15, 1936, Serial No. 96,149
30 Claims. (Cl. 95—4.5)



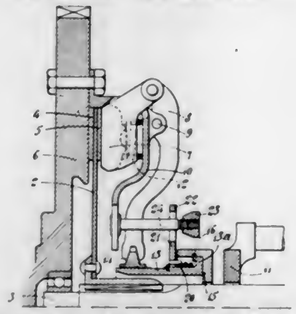
1. In a photo-printing machine, a character carrier having opaque and transparent sections defining the characters and spacing lines therefor, a pair of carriages movable toward and away from each other and having means for supporting a strip of photographic material for longitudinal movement in the direction of movement of said carriages, means to produce an image of a selected character on said strip between adjacent edges of said carriages, shutter means on one carriage for controlling exposure of said strip to said image and means on said carriages for selectively clamping said strip thereto.

2,160,751
COIN SELECTOR
Bert E. Mills, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application October 1, 1937, Serial No. 166,766
6 Claims. (Cl. 194—100)



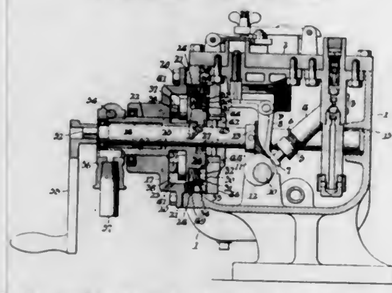
1. In a coin selector, a rebound member presenting a series of spaced thin edges in position to be contacted by a coin moving in a plane perpendicular to said edges, said edges being such that United States nickels will rebound therefrom to a sufficiently greater degree than will slugs of die-casting metal, so that the nickels and the slugs can be readily separated upon rebound, means for directing the coins onto said rebound member, and separate means for receiving coins having different trajectories upon rebound from said member.

2,160,752
FRICTION CLUTCH
Albert Vere Oliver, Coventry, England
Application May 12, 1938, Serial No. 207,488
In Great Britain February 12, 1937
19 Claims. (Cl. 192—111)



1. In a friction clutch of the kind specified having clutch release levers, the provision of an automatic adjusting device to compensate for wear of the clutch engaging surfaces, said device comprising an annular thrust receiving member, an annular release lever actuating member connected therewith by an adjustable screw threaded thrust-transmitting connection, said thrust receiving member, said lever actuating member and the elements of said adjustable connection encircling the axis of rotation of said clutch adjacent to the inner ends of said release levers, and a member associated with the casing of the clutch and operatively connected with the thrust-transmitting connection automatically to regulate the adjustment of the latter, whereby the thrust-receiving member always returns to the same position when the clutch is fully engaged, despite wear of the clutch surfaces.

2,160,753
DOUBLE-ACTING RATCHET MECHANISM
Joseph W. Price, Jr., Philadelphia, Pa., assignor to The United States Metallic Packing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 21, 1937, Serial No. 170,245
12 Claims. (Cl. 74—143)



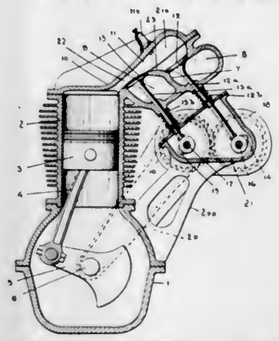
1. A double-acting ratchet mechanism comprising a shaft; a ratchet on said shaft for effecting its rotation, a tubular member on the shaft, said member having a rigidly-related segment and a relatively-pivotal segment, and each segment being provided with driver pawls and a projection; actuator means for turning the tubular member through predetermined limits relative to the shaft; and a floating element movable by the rigid segment projection for angularly shifting the pivotal segment to effect active cooperation of the driver pawls with the ratchet for continuous rotation of the latter in a definite direction.

2,160,754
FIELD STANDARD
George A. Ross, Norwood, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio
Application February 4, 1938, Serial No. 188,730
10 Claims. (Cl. 73—166)



1. A field standard, comprising, a container, a glass gauge tube communicating with the interior of the container, a scale support extending along the gauge tube and slidably fitted to the contour of the container, whereby it cannot rotate, and an adjustment screw for traversing said scale support along the gauge tube.

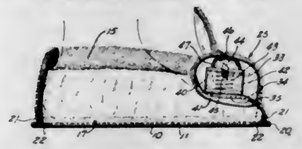
2,160,755
INTERNAL COMBUSTION ENGINE
Gideon Efraim Sandblom, Farjenas, near Gothenburg, Sweden
Application May 18, 1938, Serial No. 208,699
In Sweden September 19, 1935
1 Claim. (Cl. 123—191)



In an internal combustion engine having a working cylinder and a reciprocating piston, a combustion chamber communicating at its one end with the upper end of said working cylinder, a mushroom valve for the supply of fuel-air mixture arranged at the inner portion of said combustion chamber and provided with a valve spindle, the seat for said valve being drawn back in the direction of said valve spindle so as to form at the inner end of said chamber an enlarged portion of said chamber, a discharge valve for the

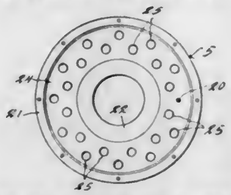
combustion gases arranged between said admission valve and said working cylinder, that portion of the walls of said chamber, which is located between the seats of said valves forming together with the outer surface of said discharge valve an evenly curved surface.

2,160,756
SLIPPER
Edwin J. Schreck, Milwaukee, Wis., assignor to Badger Glove & Mitten Co., Milwaukee, Wis., a corporation of Wisconsin
Application January 29, 1938, Serial No. 187,603
8 Claims. (Cl. 36—2.5)



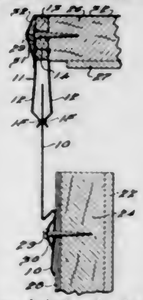
8. A slipper including a sole, an upper secured to the sole, said upper including a flexible portion positioned to overlie the fore part of the foot, a sheet of flexible material overlying said flexible portion of the upper and secured thereto about the edges of said sheet, a resiliently expansible sounding device mounted in the space between said sheet and the underlying portion of the upper and bearing at its opposite ends against the under surface of the sheet and the flexible portion of the upper, respectively, whereby to maintain the unsecured portions thereof distended and out of contact with each other, said sheet of flexible material and said sounding device being disposed on the upper at a point to substantially overlie the fore part of the wearer's foot whereby flexure of the wearer's foot serves to actuate the sounding device.

2,160,757
VALVE DIAPHRAGM
Saul Schulhoff, Baltimore, Md.
Application November 4, 1937, Serial No. 172,786
3 Claims. (Cl. 137—157)



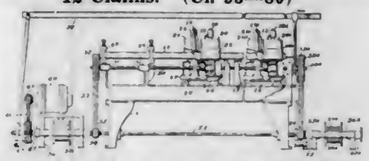
1. In a valve comprising a casing having a passageway therethrough, a hollow cylindrical portion in said casing having an end edge forming a valve seat, a flexible diaphragm extending across the casing and dividing it into two chambers, and a guide connected with said diaphragm and loosely fitting in said cylindrical portion and including an annular clamping means; the herein described improved diaphragm made up of two portions, one of said portions consisting of an annular disk of rubber having a thickened portion at the inner and outer peripheries and a relatively thin web connecting said peripheral portions, said thickened portion at the inner periphery being secured concentric with said hollow cylindrical portion by said clamping means and adapted to engage on said valve seat, the thickened outer peripheral portion being adapted to be secured against movement in the casing, and a second portion consisting of a thin flat annulus secured to said web and being of less width than the same whereby it is free from contact at its inner and outer edges with said thickened peripheral portions and having an inner edge circumference sufficient to avoid contact with said clamping means during flexing of the diaphragm, and said second portion having an annular series of apertures therethrough and concentric therewith which is so constructed and arranged as to cause the diaphragm to flex along a circular line concentric therewith.

2,160,758
EXPANSION JOINT
John Schurman, Highland Park, Mich., assignor to Albert Kahn, Inc., a corporation of Michigan
Application April 30, 1938, Serial No. 205,207
6 Claims. (Cl. 72—106)



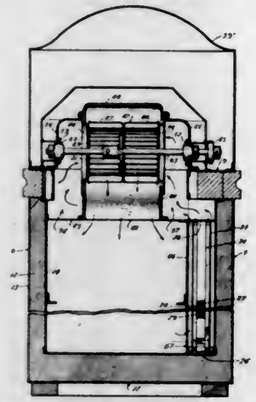
1. An expansion joint of the class described comprising a grip member composed of a pair of continuous resilient grip plates secured fixed with respect to each other along one side thereof, inwardly disposed continuous contact points formed along the unconnected sides of the said grip plates constantly urged toward each other by the resiliency of the said grip plates, and a continuous resilient diaphragm telescopingly engaged in slidable relationship between said grip plates, the said joint admitting of a substantially universal movement between structures connected thereby simultaneously with maintaining a double weather joint at all times between said structures.

2,160,759
SPIRAL TUBE WINDING MACHINE
Henry De Smith, Rochester, N. Y., assignor to M. D. Knowlton Company, Rochester, N. Y., a corporation of New York
Application June 2, 1938, Serial No. 211,409
12 Claims. (Cl. 93—80)



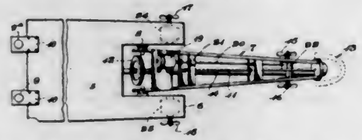
1. A machine for winding spiral tubes comprising a mandrel, a plurality of winding heads disposed in operative relation to said mandrel, means for driving said winding heads at predetermined speeds, said means including a variable speed transmission unit for one of said heads, and means for adjusting said transmission unit to vary the speed of said last-mentioned head with relation to the speed of another of said winding heads.

2,160,760
REFRIGERATING APPARATUS FOR VENDING MACHINES AND THE LIKE
James T. Smith, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application December 21, 1935, Serial No. 55,531
8 Claims. (Cl. 62—102)



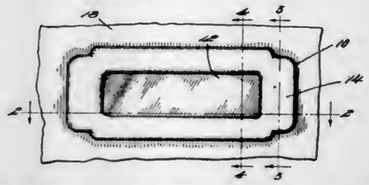
1. A refrigerating apparatus for a vending machine or the like, comprising a cabinet having a compartment for holding a supply of bottled or packaged goods, a baffle plate of heat conductive material positioned in said compartment to form with a side wall thereof a substantially vertically disposed passageway located within the outer walls of the compartment but separated from the goods by said baffle plate, said plate terminating a short distance above the bottom of the compartment to provide an opening between the latter and said passageway, a refrigerating element disposed in said passageway closely adjacent said baffle plate, said element including a cooling coil and a fluid tight receptacle disposed around said coil and having a fluid therein capable of being solidified at a temperature to which the coil is to be cooled, means for supplying a refrigerant to said coil to effect cooling thereof, and means for circulating the air in said compartment through said passageway to bring the same into heat exchanging relation with said refrigerating element.

2,160,761
DREDGING MACHINE
Joseph Spadaro, Bronx, N. Y.
Application September 24, 1938, Serial No. 231,608
7 Claims. (Cl. 37—58)



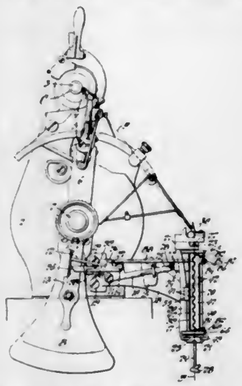
1. In a dredging machine, a float, hull or the like, a ladder movably connected at one extremity to said float and at its opposite extremity being submerged below the water line during dredging, a propeller mounted on a submerged portion of said ladder and adapted, when driven, to exert lateral propulsion on the ladder to thereby swing the ladder from side to side during the dredging operation, and means for driving the propeller.

2,160,762
COMBINATION INTEGRAL TRANSPARENT MEMBER AND ESCUTCHEON FRAME
Knut E. Birger Stenberg, Attleboro, Mass., assignor to Associated Attleboro Manufacturers, Attleboro, Mass., a corporation of Massachusetts
Application December 8, 1937, Serial No. 178,751
10 Claims. (Cl. 189—64)



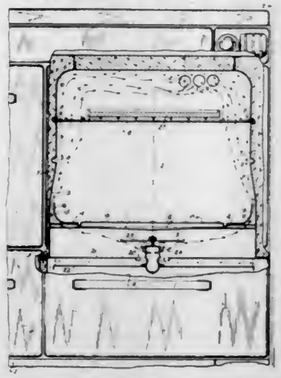
2. A combination integral transparent member and escutcheon frame device, comprising transparent synthetic material molded into a flat central transparent sheet simulative of glass, and a transparent border portion molded integrally therewith in the shape of an escutcheon frame having means integrally projecting therefrom for the detachable securement of said device in a hole therefor in a wall or other solid structure for displaying said center transparent sheet and border portion, and a covering on the rear of said border portion to produce an effect in said escutcheon frame portion when viewed from in front simulative of solid metal, wood or other border material.

2,160,763
TENSION DEVICE FOR WINDING AND LIKE MACHINES
George N. Taylor, East Providence, and John MacAlpine Ewart, Oakland Beach, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application March 25, 1937, Serial No. 133,036
18 Claims. (Cl. 242—154)



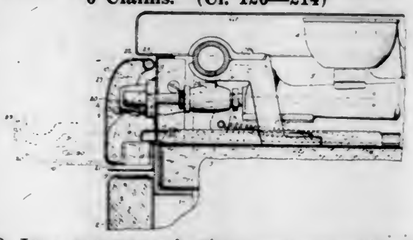
1. In a device of the type indicated, the combination of a pair of relatively movable tension-members between which the strand of yarn feeds, a movable support, means for hinging one of the tension-members to the support to adapt it to rock on an axis parallel to the direction of feed of the strand, means operative to move the support to displace one of the tension-members with respect to the other tension-member, and means for maintaining the tension-members in parallel relationship during their relative displacement.

2,160,764
OVEN FOR DOMESTIC RANGES
Thomas E. Taylor, Cleveland, Ohio, assignor to The Cleveland Cooperative Stove Company, Cleveland, Ohio, a corporation of Ohio.
Application August 25, 1937, Serial No. 160,842
5 Claims. (Cl. 126—273)



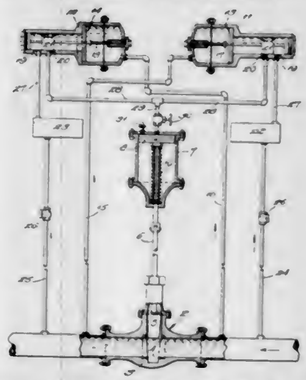
2. An oven comprising a compartment having inner side walls, a top wall, and a bottom wall, the side walls sloping outwardly slightly at their lower portions above the bottom wall and being spaced laterally short distances from the lateral margins of the bottom wall, the lateral margins of the bottom wall extending upwardly and defining with the sloping portions of the side walls passages for heating media and for directing such media upwardly along the sloping surfaces directly to the top wall of the oven near the lateral margins thereof, heating means disposed centrally beneath the bottom wall, and means carried by the bottom wall in overhanging relation to the heating means for reducing the admission of heat into the oven through the bottom wall.

2,160,765
TOP-FRONT PANEL STRUCTURE FOR RANGES
Thomas E. Taylor, Cleveland, Ohio, assignor to The Cleveland Cooperative Stove Company, Cleveland, Ohio, a corporation of Ohio
Application October 19, 1937, Serial No. 169,804
6 Claims. (Cl. 126—214)



2. In a gas range having oven compartments, doors for said compartments and having their forwardly exposed surfaces in a common upright plane, said doors being arranged to swing downwardly and outwardly about their lower margins to an open position, said range having a top wall for said compartments, top service burners over said top wall and having operating handles extending forwardly of the range, a hollow top-front panel connected at its lower margin to the range for swinging downwardly to a horizontal open position and upwardly to a vertical closed position, said panel being coextensive endwise with the range and arranged for accommodating and concealing the operating handles when the panel is in closed position and for uncovering and affording access to the handles when the panel is in open position, and said panel being arranged with its forwardly exposed face substantially in the said common plane of the doors when the doors and panel are in closed position, and said top-front panel having openings affording passage of air around the handles when the top-front panel is closed, and baffle means interposed beneath the bottom of the top-front panel and top of the doors and cooperable with the top-front panel for deflecting heated media escaping from the opens when the oven doors are opened forwardly beyond the handles.

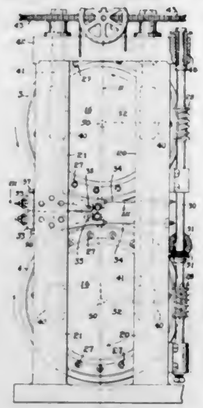
2,160,766
AUTOMATIC PRESSURE CONTROLLED GATE VALVE
Mavin A. Thomason, Lake Charles, La.
Application April 22, 1937, Serial No. 138,398
1 Claim. (Cl. 137—153)



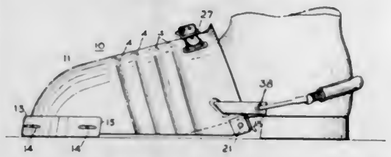
In combination with a pipeline for conveying fluid under pressure from a source, a valve connected in said pipeline, pressure actuated means connected to said valve and normally acting to open said valve, cylinders located adjacent said pressure actuated means and having outlet ports connected to said pressure actuated means and provided with inlet ports, reservoirs connected to the inlet ports, pipes connecting the reservoirs to the pipeline, check valves in said pipes, pistons operating in said cylinders, pipes connecting the cylinders to the pipeline whereby pressure in the pipeline may become equal on each side of the pistons, valves connected to the pistons, springs acting on the pistons for normally positioning said pistons to bring about closing of the outlet ports of the cylinders by said valves to normally close the pipeline pressure to the pressure actuating means and adapted to admit pressure from the reservoirs to said pressure actuated means on the pressure in the pipeline decreasing due to leakage.

2,160,767
APPARATUS FOR ROLLING SHEET METAL
Frank L. O. Wadsworth, Pittsburgh, Pa.; Mildred M. Wadsworth administratrix of Frank L. O. Wadsworth, deceased
Application September 6, 1935, Serial No. 39,437
14 Claims. (Cl. 80—38)

1. In a mill for rolling sheet-like material, a pair of relatively small reducing rolls, backing rolls for the reducing rolls, means for driving the backing rolls, a helical gear carried at each end of each backing roll with the gear on one end reversely arranged with relation to that on the other end, helical gears carried on opposite ends of the reducing rolls and meshing with those of the backing rolls whereby endwise movement of said reducing rolls is permitted and the forces driving the same are equalized during rolling.



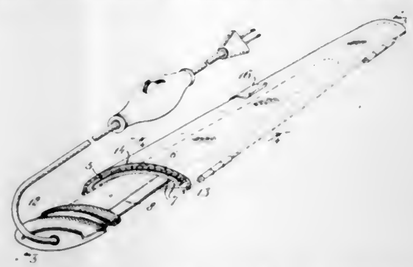
2,160,768
FOOT GUARD
Harry N. Wasser, Ellwood City, Pa., assignor to Ellwood Safety Appliance Company, Ellwood City, Pa., a corporation of Pennsylvania
Application September 7, 1937, Serial No. 162,590
15 Claims. (Cl. 36—72)



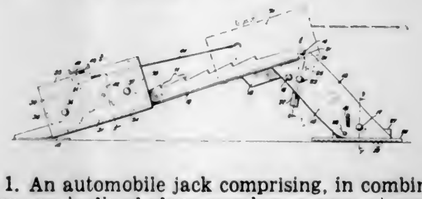
1. A toe and foot guard comprising an arched metal shell body shaped to fit over the toe and instep of a shoe-encased foot of the wearer, the metal body being wider than the shoe of the wearer so that its side edge will be free to engage the ground, a rubber toe piece secured to the front of the body and embodying a cross-piece extending across and underneath the toe of the wearer's shoe, and a resilient element for resiliently supporting the shell body above the instep of the wearer and for securing the shell body to the shoe of the wearer.

2,160,769
RENOVATOR FOR NECKTIES
David Weisberger, Scranton, Pa.
Application November 23, 1938, Serial No. 242,000
9 Claims. (Cl. 219—19)

3. A renovator for neckties comprising a foraminous form having a flattened surface and an opposed rounded surface, adapted to be inserted in a necktie, water absorbent means within the form for holding water in suspension, and an electric heating element within the form and sufficiently close to the water absorbent means that heat generated thereby will vaporize water held in suspension by said absorbent means and produce steam to pass through the openings in the form and into contact with a necktie thereon.



2,160,770
AUTOMOBILE JACK
Frank F. Weller, Jennings, La., assignor of one-half to James O. Modisette, Jennings, La.
Application November 1, 1938, Serial No. 238,276
8 Claims. (Cl. 254—88)



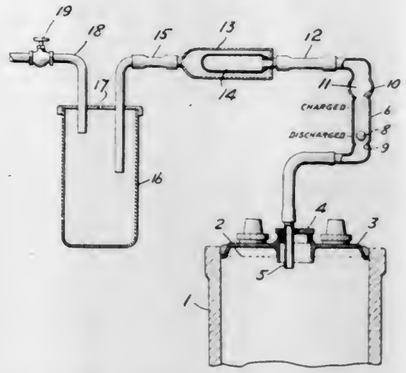
1. An automobile jack comprising, in combination: an inclined plane member; a support member pivoted to the first named member adjacent its upper end for movement in excess of 180° thereabout; a releasable latch member coacting between said members to preserve their angular relation in use and by release thereof permitting folding of said members into mutual contact at the upper surface of said member; and an axle engaging member slidable on the first named member.

2,160,771
TOASTER
Joseph Wertzheiser, Brooklyn, N. Y., assignor of eighty-five per cent to Lionel A. Bauman, Brooklyn, N. Y.
Application February 9, 1937, Serial No. 124,807
6 Claims. (Cl. 53—5)



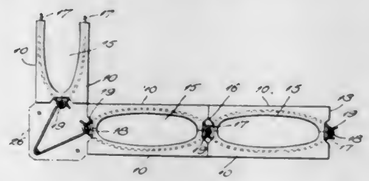
2. In a toaster, a heating element; a heat shield; and means supporting said shield and operated by material to be toasted, said means being mounted to rotate about different axes, independently of said heating element, to cause said shield to lie flat against a surface of said material.

2,160,772
SPECIFIC GRAVITY INDICATOR
George H. B. West, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application February 2, 1938, Serial No. 188,302
6 Claims. (Cl. 265—45)



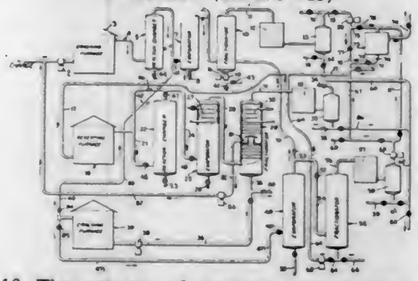
1. A specific gravity indicator for use with a storage battery and an internal combustion engine comprising, a hollow element connected at one end to the intake manifold of the engine and at the other end to the storage battery below the normal level of the electrolyte therein, said element having a transparent vertically extending portion, an indicator located in said portion and having a specific gravity intermediate the maximum and minimum specific gravities of the electrolyte, and an expansible member located in said element between said transparent portion and said engine and blocking off the passage of fluid through said element.

2,160,773
BUILDING CONSTRUCTION
Thomas L. Wolfe, Tallahassee, Fla.
Application February 24, 1938, Serial No. 192,359
1 Claim. (Cl. 72—40)



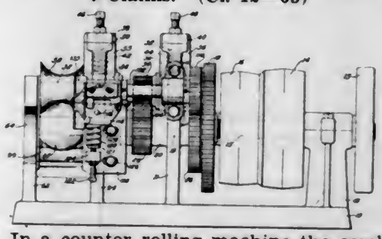
Wall construction comprising slabs each having a plane outer side and a transversely curved half oval inner side, the ends of the slabs being rabbeted, the slabs being assembled with the half oval sides of two contiguous slabs confronting each other and forming air columns of oval cross section, the rabbets of four contiguous slabs forming channels to receive tie elements, reinforcing wires imbedded in the slabs and having looped ends arranged within the channels formed by the rabbets, and tie elements inserted through said looped ends, said reinforcing wires at said looped ends being crimped to bind the looped ends tightly upon the tie elements.

2,160,774
PROCESSES OF TREATING HYDROCARBONS
Harold V. Atwell, White Plains, N. Y., assignor to Gasoline Products Company, Inc., Newark, N. J., a corporation of Delaware
Application January 23, 1934, Serial No. 707,867
Renewed January 25, 1936
19 Claims. (Cl. 196—48)



16. The process of treating hydrocarbon oil which comprises passing said oil through a cracking zone and subjecting it to cracking conditions therein, separating the resulting cracked products into vapors and unvaporized residue, fractionating said vapors to separate a higher-boiling fraction as reflux condensate, a lower-boiling fraction as a desired distillate product and fixed gas, combining said fixed gas with said reflux condensate fraction, passing said mixture through a reverting zone wherein it is subjected to reverting conditions of temperature and pressure, and reaction between the liquid and gas occurs, separating the resulting reverted products into vapors and residue, fractionally condensing said vapors to form a high-boiling condensate fraction and a plurality of lower-boiling condensate fractions, returning one of said lower-boiling fractions to said first-mentioned cracking zone and withdrawing the remainder of said lower-boiling fractions as final products of the process.

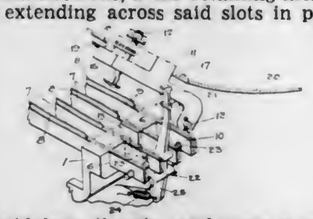
2,160,775
COUNTER ROLLING MACHINE
Charles W. Bailey, Lynn, Mass., assignor to Stewart Bros., Inc. of Lynn, Lynn, Mass., a corporation of Massachusetts
Application December 29, 1937, Serial No. 182,284
7 Claims. (Cl. 12—65)



1. In a counter rolling machine the combination of corrugating rolls, forming rolls, and a cup disposed behind said forming rolls and including a shield, a plurality of freely turning rolls, and a plurality of stationary segments.

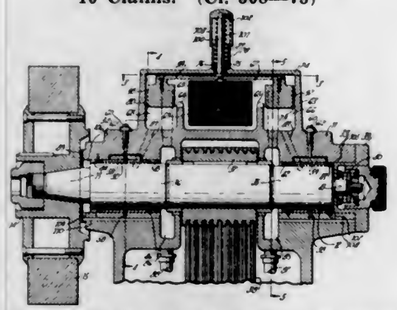
2,160,776
ELECTRIC WARP STOP MOTION
Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application November 9, 1938, Serial No. 239,666
6 Claims. (Cl. 139—358)

1. In an electric warp stop motion, the combination of a supporting bracket having upwardly opening slots therein, detector bars removably supported in said slots, each of said bars comprising a grounded electrode and a live electrode supported by and insulated from said grounded electrode, a bar-retaining member normally extending across said slots in position to



hold said bars therein, and contact means for supplying electric energy to said live electrodes, said means being supported by and movable with said member, and said member being movably mounted on said bracket for movement away from bar-retaining position to thereby permit said bars to be lifted out of said slots.

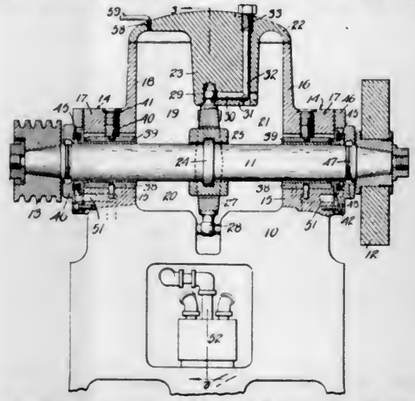
2,160,777
JOURNAL BEARING
Albert H. Dall and Hans Ernst, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application June 14, 1933, Serial No. 675,792
Renewed July 16, 1936
10 Claims. (Cl. 308—73)



1. In a machine tool organization the combination of a bearing housing, a rotating member within said housing, a plurality of bearing shoes carried by the housing and circumferentially spaced around the member, means carried by the housing whereby a fluid chamber is formed to maintain the bearing shoes at all times submerged, means for supplying fluid under pressure to the chamber, means for effecting a throttled flow of the fluid from the chamber into a space which is free from pressure above atmosphere, said means for supplying fluid under pressure comprising a well associated with the housing above the chamber whereby a head is provided for the fluid, and means for supplying fluid to the well.

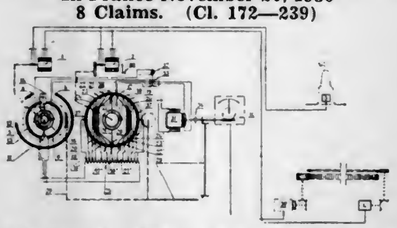
2,160,778
BEARING
Albert H. Dall and Hans Ernst, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application June 2, 1936, Serial No. 83,018
9 Claims. (Cl. 308—73)

1. In apparatus of the general nature of that herein described, in combination, means forming a chamber having a body of oil therein, a rotatable member having a bearing surface in said chamber submerged in said oil, a series of bearing shoes extending about and operatively related to said surface, means mounting each shoe for rocking movement in a plane transverse to the axis of said rotatable member, said shoes being formed to tilt automatically to balance the effect of vari-



ations in load on said rotatable member, and positively acting means adapted to maintain said entire body of oil in said chamber under pressure and thereby enhance the uniformity of flow of oil beneath said shoes.

2,160,779
CONCORDANCE RESTORING SYSTEM FOR DISTANT CONTROL MEANS
Elie Granat, Paris, France, assignor of one-half to Compagnie des Forges et Acieries de la Marine et d' Homecourt, Paris, France, a company of France
Application November 8, 1937, Serial No. 173,524
In France November 20, 1936
8 Claims. (Cl. 172—239)

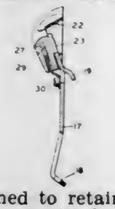


8. An electric distant control system comprising a distant control part, a controlled part, a motor driving the latter, a speed controlling device for said motor, first means adapted to rotate in unison with the control part, second means adapted to rotate in unison with the controlled part, a distributor controlled differentially by both lastmentioned means, an auxiliary motor controlled by the distributor and mechanically controlling the speed controlling means and means mechanically controlled by said speed controlling means for shifting the distributor to reverse the direction of rotation of the auxiliary motor while the distributor is returning to its inoperative position.

2,160,780
THREAD GUIDE FOR CONE OR TUBE WINDING MACHINES
Edgar S. Kennedy, Norristown, Pa., assignor, by mesne assignments, to American Viscose Corporation, a corporation of Delaware
Application June 1, 1935, Serial No. 24,555
11 Claims. (Cl. 242—157)

1. A thread guide having a convex bearing sur-

face adapted to rest against the thread on a rotating winding mechanism and provided with an eye extending through substantially the center of said convex surface, said guide having a vertical slot communicating with said eye whereby thread may be inserted therein laterally and whereby



shoulders are formed to retain said thread, the sides of said slot above said shoulders being flared outwardly to facilitate said thread insertion, and the sides of said guide above said eye being tapered inwardly toward the top whereby a loop of thread caught thereon may free itself.

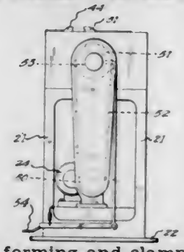
2,160,781

CLIP FORMING AND CLAMPING MACHINE

Ignatius Lukasiewicz, Detroit, Mich.

Application January 7, 1939, Serial No. 249,724

3 Claims. (Cl. 153—1)



1. In a clip forming and clamping machine of the kind described, a frame, a platform surmounting same and provided with an operative aperture therein, substantially in the middle thereof, roller means to feed into said aperture a continuous metal ribbon for clips, means to impart to said rollers an intermittent rotary motion, a reciprocating rounded member slideable into said aperture above said ribbon and transversely to the path thereof, a reciprocating shaping die adapted to turn the free end of the advancing ribbon over the rounded member into an open loop, a cutter to sever a length of ribbon for a clip, a reciprocating clamping die to operatively slide in the direction of the advancing ribbon to turn over the severed end into a complete loop and to clamp together members encompassed thereby, means to actuate said rollers and cutters in a predetermined order, and pedal means to control the operation of the machine.

2,160,782

WATER SOLUBLE CELLULOSE ETHERS

Albert T. Maasberg, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application August 8, 1938, Serial No. 223,695

3 Claims. (Cl. 260—231)

1. The process which comprises reacting an alkali cellulose containing at least 0.9 and not substantially greater than 1.2 parts of sodium hydroxide and at least 0.9 and not substantially greater than 1.5 parts of water per part of cellulose, by weight, with an alkylating agent selected from the class consisting of the methyl and ethyl halides and sulphates, the alkylating agent being supplied in quantity at least equivalent to the sodium hydroxide present, continuing the reaction until the sodium hydroxide in the alkali cellulose is substantially completely neutralized, and discontinuing the reaction while the reaction mixture is still slightly alkaline, thereby to produce a uniform cold-water-soluble, lower alkyl ether of cellulose containing from about 25 to about 33 per cent alkoxyl groups, and characterized by solubility in water at temperatures below room temperature and insolubility in water at temperatures above 65° C.

2,160,783

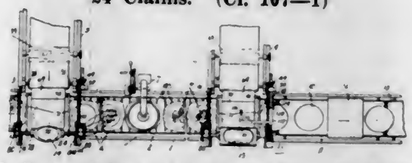
MACHINE FOR MAKING PIES, TURNOVERS AND THE LIKE

Irvin F. McDonald, Los Angeles, Calif.

Application December 27, 1932, Serial No. 649,004

Renewed July 31, 1934

24 Claims. (Cl. 107—1)



1. In a machine of the class described, a reciprocatory carriage having an inclined member and a roll journaled thereon, means for rotating the roll on the reciprocation of said carriage, and means for successively delivering a sheet of dough to said member at each stroke thereof in one direction, said member moving over receptacles successively positioned under said member, whereby a sheet of dough is adapted to be laid on one of said receptacles by the movement of said member in the opposite direction, the roll acting to press the sheet into said receptacle, said roll having a raised portion coacting with the interior of the receptacle to conform the sheet to the shape thereof.

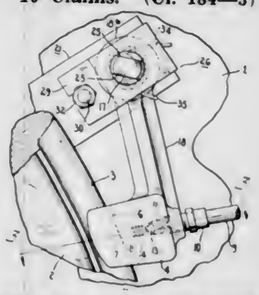
2,160,784

LUBRICATING DEVICE

Elmer F. Milbank, Galesburg, Ill., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application October 8, 1937, Serial No. 168,015

10 Claims. (Cl. 184—3)



1. A flange oiler nozzle, comprising a supporting member, a fixed bearing member projecting from said supporting member, an arm having a bearing aperture therethrough and mounted for rectilineal and rotational movement on said bearing member, a shoe carried by said arm and having an open-ended groove extending longitudinally of said arm, said groove having its wall surface contoured to fit and to receive therein the circumferential portion of a wheel flange to be lubricated so that said shoe is rectilineally movable with and by the flange, said shoe having a passageway therethrough opening into said groove for supply of lubricant to the groove surface, resilient means acting on said arm so that said resilient means continuously tends to rotate said arm on said shaft in a direction to engage the wheel flange and to frictionally oppose rectilineal movement of said arm member by the wheel flange, and valve means in said shoe passageway and controlling flow through said passageway and responsive to lubricant pressure in said passageway.

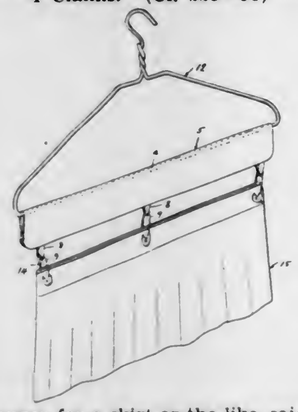
2,160,785

SKIRT HANGER OR THE LIKE

Mary B. Nelson, Weston, Nebr.

Application August 1, 1938, Serial No. 222,519

4 Claims. (Cl. 223—95)



1. A hanger for a skirt or the like, said hanger comprising a sheet bent along a longitudinal line to bring opposite edge portions of the same side of the sheet into substantially touching relation, flexible skirt-top connectors secured to depend from one of said edge portions, and a strip of adhesive material extending along the opposite edge portion.

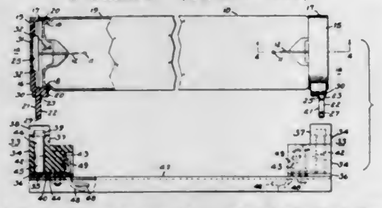
2,160,786

TUBULAR LAMP BASE

Conrad S. Peterson, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application March 17, 1938, Serial No. 196,458

5 Claims. (Cl. 176—126)



1. A base for electric lamps and similar devices comprising a cup-shaped member of insulating material having an end wall, a cylindrical wall, and a disc-shaped tab extending outwardly from said cylindrical wall, and a pair of spaced contact strips secured to said member and extending across the inner surface of said end wall, said contact strips further extending through said cylindrical wall and being curved to conform to and engage the edge of said tab.

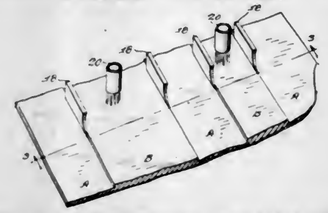
2,160,787

METHOD OF FORMING THICK BUTT SHINGLES

Ralph W. B. Reade, Winnetka, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application September 30, 1935, Serial No. 42,840

9 Claims. (Cl. 91—68)



1. The method of forming a thick butt shingle which comprises applying a plastic coating of one thickness to one portion of a foundation element, applying only to a portion of said element left unsurfaced by said coating a plastic coating of different thickness, and surfacing said plastic coatings with grits.

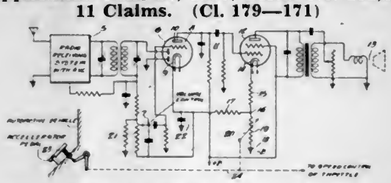
2,160,788

VOLUME CONTROL SYSTEM

James M. Riddle, Jr., West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 30, 1937, Serial No. 151,215

11 Claims. (Cl. 179—171)



1. In an electric discharge amplifier comprising a plurality of electric discharge amplifying tubes connected in cascade relation, a common cathode circuit for a pair of said tubes, a resistor element connected in circuit with each cathode, a resistor element in said cathode circuit, and circuit connections for causing the alternating current output of said tubes to flow through said resistors, whereby a predetermined degeneration is established by said first named resistor elements and a compensation regeneration established by said last named resistor element in said cathode circuit.

2,160,789

DUMP BODY FOR TRUCKS

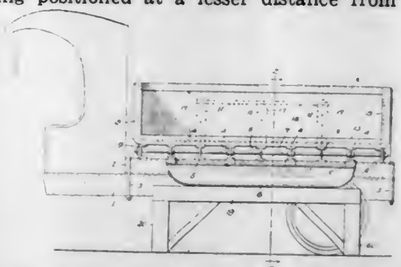
Nelson Severinghaus, Lithonia, Ga., assignor to Consolidated Quarries Corporation, Atlanta, Ga.

Application January 28, 1937, Serial No. 122,866

2 Claims. (Cl. 298—18)

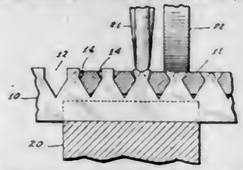
1. The combination with the chassis of a truck or the like, of a sub-frame rigidly secured thereon, a dump body having an open side and a closed side, said body normally resting on the sub-frame, means for pivotally connecting the open side of the body to the sub-frame for up and

down swinging movement relative thereto, a longitudinal skid having all portions located beneath the sub-frame and fixedly secured thereto beneath the open side of the body, and a longitudinal rise along the bottom of the body at the open side thereof, the closed side of the body being positioned at a lesser distance from the



longitudinal center of the body than the bottom of the open side whereby the center of gravity of bulk material loaded into the body and against the closed side and having its angle of pile extending downwardly toward the rise, will be substantially along the longitudinal center of the chassis of the truck.

2,160,790
WELL STRAINER AND PROCESS OF MAKING IT
Raymond E. Swanson, Lawrenceburg, Ind., assignor to A. D. Cook, Inc., Lawrenceburg, Ind., a corporation of Indiana
Application October 2, 1937, Serial No. 167,030
6 Claims. (Cl. 29—163.5)



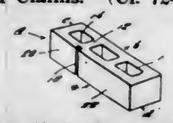
1. A well strainer, comprising an annular series of longitudinal rods, and a wire helically wound about said series of rods with its outer edges defining restricted strainer openings, each of said rods being provided with a longitudinally extending series of notches in which the respective turns of said wire are received, each of said notches having a depth at least equal to the radial thickness of said wire, said outer wire-edges of said wire being provided with transverse notches at points where said wire crosses said rods, and the material of said rods between the notches therein being displaced longitudinally of said rods to form lugs extending into said notches in the wire.

2,160,791
STRUCTURAL SYSTEM
Erik Johan von Heidenstam, Stockholm, Sweden
Application November 24, 1937, Serial No. 176,386
In Sweden November 25, 1936
23 Claims. (Cl. 108—23)



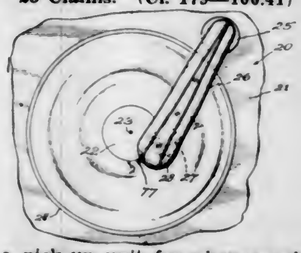
1. In a structural system comprising an arch and a tie member, said tie member being broken in consisting of two parts forming an angle with each other, the point of said angle being directed against the arch, at least two brace polygons, each consisting of a broken arch of braces, provided between the arch and the breaking point of the tie member, and secondary braces connecting the breaking points of said brace polygons with the arch.

2,160,792
BUILDING BLOCK OR BRICK
John J. Cantwell, Washington, D. C., assignor to Speedbrik Corporation, a corporation of Delaware
Application March 1, 1938, Serial No. 193,337
4 Claims. (Cl. 72—41)



1. As a new article of manufacture a clay load bearing brick having at least two opposite side faces of substantially corresponding exterior finish, whereby any one of said faces is adapted to serve as the obverse face of the brick, said side faces being dimensioned to give the appearance of brick, one of said side faces only having a groove therein extending the length of the shortest dimension of said face and spaced from one end of the brick a distance approximately one-third of the length of the longest dimension of said face for the reception of mortar to give a false mortar joint, the other side face of the brick being undivided to present a smooth unbroken surface throughout its area, whereby a plurality of said bricks may be laid in stretcher courses throughout an entire wall area and by selecting the proper side face of each brick various standard bond designs may be obtained.

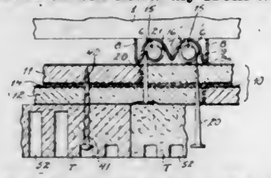
2,160,793
PICKUP
Roy Dally, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin
Application January 21, 1938, Serial No. 186,049
25 Claims. (Cl. 179—100.41)



1. In a pick-up unit for phonographs or the like, the combination of a crystal adapted to generate an electromotive force upon deformation, with a pair of housing members formed of flexible, resilient material, and provided with a crystal chamber enclosing said crystal and protecting said crystal against humidity, said crystal chamber having means for clamping the crystal in the housing formed integrally with the housing.

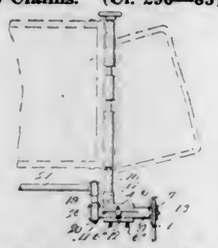
2,160,794
BUILDING CONSTRUCTION
Manley R. Price, Lakewood, Ohio
Application April 20, 1938, Serial No. 203,046
13 Claims. (Cl. 72—118)

9. A nailing ground, comprising a sheet-metal strip in the form of a channel having oppositely sloping bottom surfaces adapted to deflect nails, spaced means struck inwardly from a wall of the



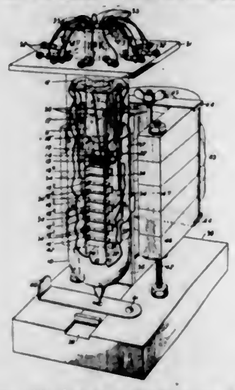
channel, and a rod secured to said means and about the entire periphery which nails deflected by said surfaces can extend for clinching.

2,160,795
WINDSHIELD SUPPORT
Fred W. Smith, Adams, Mass.
Application October 7, 1937, Serial No. 167,813
10 Claims. (Cl. 296—85)



10. A windshield mounting for rumble seats and the like comprising a pair of spaced inclined guide rails constructed and arranged to be secured to the body of an automobile, windshield supports and a windshield thereon slidable on said rails, and spaced independently operable means carried by each support for supporting said windshield at spaced points in raised position on each guide rail.

2,160,796
ELECTRON DISCHARGE APPARATUS
Gordon K. Teal, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 20, 1936, Serial No. 111,808
11 Claims. (Cl. 250—166)



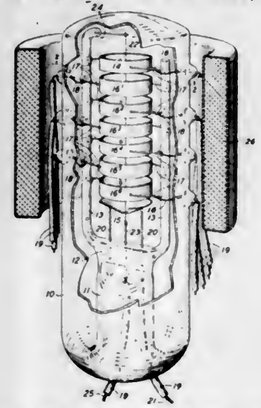
1. Electron discharge apparatus comprising a primary cathode, a collector electrode, a plurality of secondary cathodes between said primary cathode and said collector electrode, said secondary cathodes having electron focussing flanges electrically connected thereto and forming channels constituting a path for the electron streams, and mounted end to end and in alignment with one another, and a coating of electron emissive material upon the inner surface of said channels.

2,160,797
ELECTRON DISCHARGE APPARATUS
Gordon K. Teal, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 20, 1936, Serial No. 111,809
7 Claims. (Cl. 250—166)



1. Electron discharge apparatus comprising a plurality of primary cathodes, a plurality of laterally adjacent rows of secondary cathodes, each of said rows being in alignment with a corresponding one of said primary cathodes, means segregating the electron emissive surfaces of the secondary cathodes in each row from the emissive surfaces of the cathodes in the other rows, a plurality of collector electrodes each in cooperative relation to a corresponding row of said secondary cathodes, and means electrically connecting corresponding secondary cathodes in said rows.

2,160,798
ELECTRON DISCHARGE APPARATUS
Gordon K. Teal, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 20, 1936, Serial No. 111,810
15 Claims. (Cl. 250—166)



1. Electron discharge apparatus comprising an enclosing vessel, a stem having an annular flange

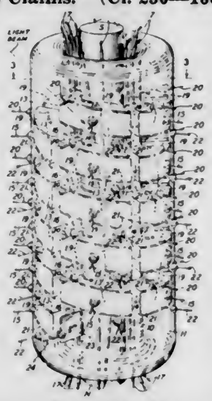
intermediate the ends thereof, a plurality of leading-in conductors sealed in said flange, a supporting frame within said vessel, means mounting said frame on said stem, a primary cathode, a collector electrode and a plurality of secondary cathodes disposed in alignment and affixed to said frame, conductors connecting said electrodes to said leading-in conductors, and insulating means encasing said connecting conductors.

2,160,799

ELECTRON DISCHARGE DEVICE

Gordon K. Teal, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 31, 1937, Serial No. 161,747
20 Claims. (Cl. 250—166)



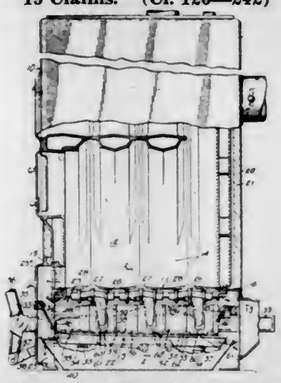
1. An electron discharge device comprising a primary cathode, a collector electrode spaced from said cathode, and a plurality of electrically separate, substantially rectangular secondary electrodes mounted side by side and in helical formation between said primary cathode and said collector electrode, said secondary electrodes having corresponding surfaces thereof adapted to emit secondary electrons.

2,160,800

FURNACE

Bernard Goerg, Scarsdale, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application October 21, 1937, Serial No. 170,172
15 Claims. (Cl. 126—242)



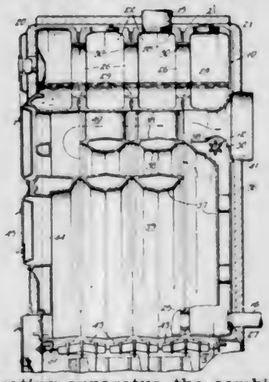
2. In a furnace, a fuel-supporting grate comprising a plurality of grate bars supported for ash-shaking movement; grate-operating arms depending from the grate along one side thereof and connected respectively to the grate bars for operating the latter; walls defining an ash pit beneath the grate and including a grate-operating space extending along the side of the grate from which the arms depend and receiving the latter; a removable ash pan arranged beneath the grate in position to receive ash falling therefrom and having a side extending in the same direction as the grate-operating space and adjacent thereto; and means in said grate-operating space for directing falling ash into the ash pan and including an element connecting said grate-operating arms and movable therewith for moving ash laterally into said pan.

2,160,801

HEATING APPARATUS

Bernard Goerg, Scarsdale, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application November 30, 1937, Serial No. 177,207
5 Claims. (Cl. 122—225)



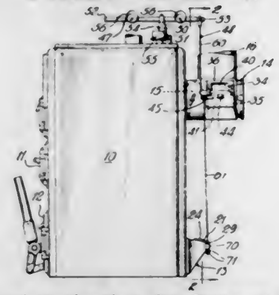
1. In heating apparatus, the combination of a steam boiler comprising front, back, and intermediate hollow cast metal sections arranged transversely of the boiler and in side-by-side relation; the sections having outer side walls providing the boiler side walls and inner wall portions defining a combustion chamber and a passage for combustion gases; the passage for combustion gases including a portion extending rearwardly through the upper part of the back section and at points below the normal water line therein; means for communicatively connecting the interior of the sections at the bottom and at the top of the boiler and below the normal water line to provide for thermo-syphonic circulation of water between sections; the back section being provided with an elongated and enlarged water space portion extending across the section from one of the outer side walls and defined in part by the inner wall portion thereof which defines the bottom of said rearwardly extending portion of the passage for combustion gases; said one outer wall having an opening therethrough providing communication with one end of said elongated water space portion; and a hot water supply system including a pair of circulating pipes located exteriorly of the boiler, and a tubular heat exchanger arranged lengthwise within said elongated water space portion and having inlet and outlet water connections extending through said opening and connected respectively to said circulating pipes.

2,160,802

HEATING APPARATUS

Bernard Goerg, Scarsdale, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application December 8, 1937, Serial No. 178,629
4 Claims. (Cl. 236—26)



1. Control mechanism for furnaces having an inlet for air, comprising a damper pivoted to move about a fixed axis for controlling the flow of air through said inlet and weighted so as to be biased to closed position; said damper including a portion extending therefrom and adapted to be engaged at one side thereof for moving said damper in an opening direction; a lever of the first class pivoted to move about the same axis as said damper and including first and second arms; said first arm extending from the pivotal axis toward said extending portion of the damper and separably engaging said one side of said extending portion; and means including a lengthwise movable rod pivotally connected throughout its movement to the outer end of said second arm and operating in response to an increase in heat output of the furnace for moving said lever in a direction to effect engagement of said first arm and said one side of said extending damper portion for opening said damper, and operating in response to a decrease in heat output for moving said lever in a direction to permit closing of said damper and effect separation of the engaging surfaces of said first arm and said extending portion of said damper.

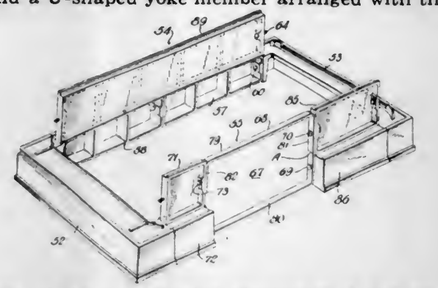
2,160,803

HEATING APPARATUS

Bernard Goerg, Scarsdale, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application March 31, 1938, Serial No. 199,179
19 Claims. (Cl. 110—1)

1. A fabricated supporting base for stoker-fired boilers comprising a front wall member; a rear wall member; and a connecting side wall member extending between and connected to the front and rear wall members; said connecting side wall member having an opening therein adapted to receive parts of a stoker, and said side wall member including separable upright panel elements and a U-shaped yoke member arranged with the



base of the U extending lengthwise of the wall and defining one side of the opening and with the legs of the U arranged upright at opposite sides of the opening and detachably secured to adjacent wall parts.

2,160,804

METHOD AND APPARATUS FOR REPAIRING WELL LINERS, CASINGS, ETC.

Elwin B. Hall and Arthur L. Armentrout, Los Angeles, Calif., assignors, by direct and mesne assignments, to Security Engineering Co. Inc., a corporation of California

Application September 26, 1938, Serial No. 231,724
17 Claims. (Cl. 166—21)

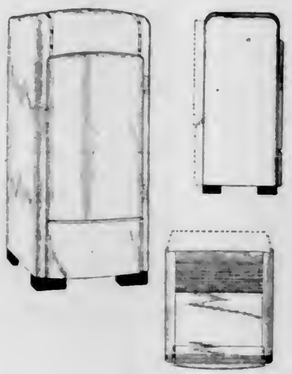


1. The method of repairing a leak in a tubular object in a well comprising inserting in said object a drillable tubular body having vertically spaced packing means operable to pack with the interior of said object above and below said leak, and subsequently drilling up said body and packing means.

DESIGNS

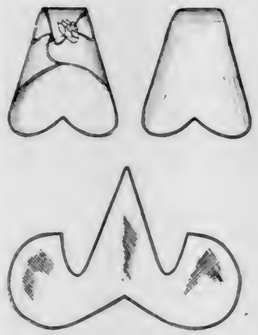
MAY 30, 1939

114,984
DESIGN FOR A REFRIGERATOR
Wilbur Henry Adams, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application March 21, 1938, Serial No. 75,991
Term of patent 14 years



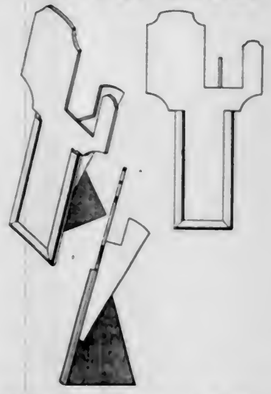
The ornamental design for a refrigerator, as shown and described.

114,985
DESIGN FOR A HAT OR SIMILAR ARTICLE
Marinette Blanc, New York, N. Y.
Application April 29, 1939, Serial No. 84,666
Term of patent 3½ years



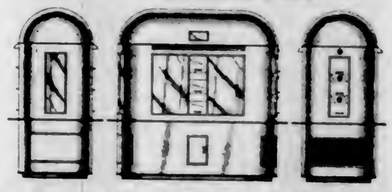
The ornamental design for a hat or similar article, substantially as shown.

114,986
DESIGN FOR A DISPLAY RACK
Wally Bushberg, Oakland, Calif.
Application December 24, 1938, Serial No. 81,979
Term of patent 7 years



The ornamental design for a display rack, substantially as shown.

114,987
DESIGN FOR A REFRIGERATING DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application February 23, 1939, Serial No. 83,164
Term of patent 14 years



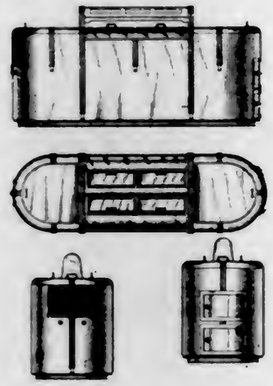
The ornamental design for a refrigreating display cabinet, as shown.

114,988
DESIGN FOR A REFRIGERATING DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application March 9, 1939, Serial No. 83,466
Term of patent 14 years



The ornamental design for a refrigerating display cabinet, as shown.

114,989
DESIGN FOR A REFRIGERATING DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application March 9, 1939, Serial No. 83,467
Term of patent 14 years



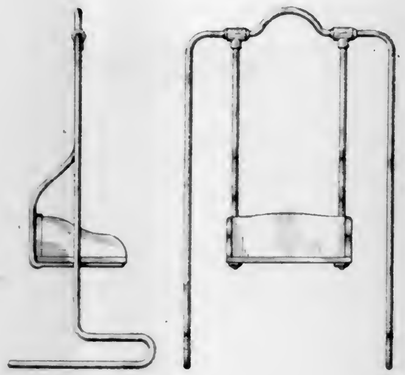
The ornamental design for a refrigerating display cabinet, as shown.

114,990
DESIGN FOR A SHOE FORM OR SIMILAR ARTICLE
William J. De Witt, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a corporation of New York
Application February 4, 1939, Serial No. 82,777
Term of patent 14 years



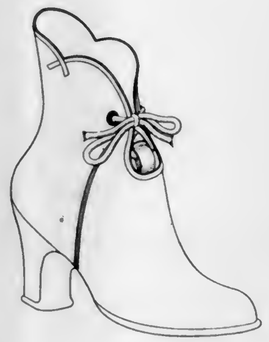
The ornamental design for a shoe form or similar article, substantially as shown.

114,991
DESIGN FOR A SWING
Albert H. Duit, Los Angeles, Calif.
Application March 1, 1939, Serial No. 83,281
Term of patent 3½ years



The ornamental design for a swing, as shown.

114,992
DESIGN FOR AN OVERSHOE OR SIMILAR ARTICLE
Lucille B. Fitzgerald, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 1, 1938, Serial No. 80,809
Term of patent 3½ years



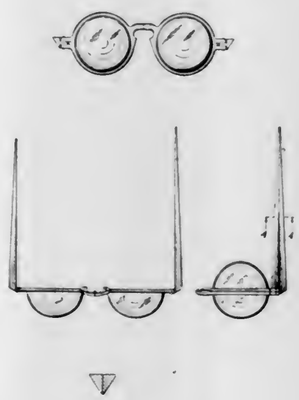
The ornamental design for an overshoe or similar article, as shown.

114,993
DESIGN FOR AN OVERSHOE
Lucille B. Fitzgerald, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 22, 1939, Serial No. 83,752
Term of patent 3½ years



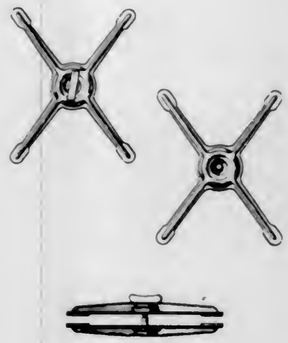
The ornamental design for an overshoe, as shown.

114,994
DESIGN FOR SUN GOGGLES
Edward McGlynn, New York, N. Y.
Application September 2, 1938, Serial No. 79,730
Term of patent 3½ years



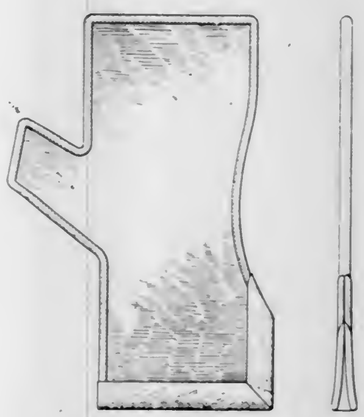
The ornamental design for sun goggles, as shown.

114,995
DESIGN FOR A TENNIS RACKET PRESS
George J. Graham, Merion, Pa.
Application May 15, 1937, Serial No. 69,362
Term of patent 7 years



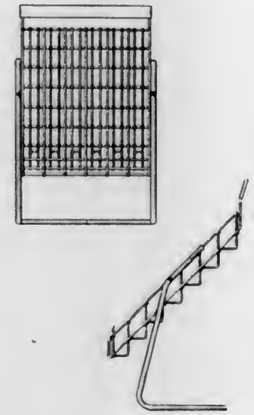
The ornamental design for a tennis racket press, as shown.

114,996
DESIGN FOR A KITCHEN GAUNTLET
Miriam Gross, Chicago, Ill.
Application April 1, 1939, Serial No. 83,978
Term of patent 14 years



The ornamental design for a kitchen gauntlet, as shown and described.

114,997
DESIGN FOR A PACKAGED SEED DISPLAY STAND
Earle Everett Humphries, Los Angeles, Calif.
Application November 28, 1938, Serial No. 81,419
Term of patent 14 years



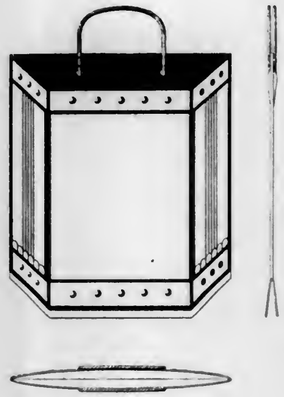
The ornamental design for a packaged seed display stand, as shown.

114,998
DESIGN FOR AN ELECTRIC TABLE LAMP
Douglas F. Illian, Evanston, Ill.
Application April 7, 1939, Serial No. 84,102
Term of patent 7 years



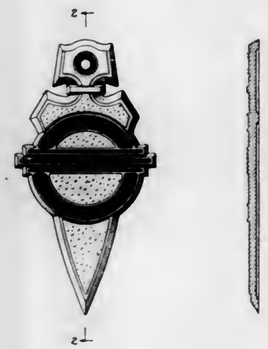
The ornamental design for an electric table lamp, as shown.

114,999
DESIGN FOR A SHOPPING BAG
Morris Katz, Bronx, N. Y.
Application February 9, 1939, Serial No. 82,895
Term of patent 3½ years



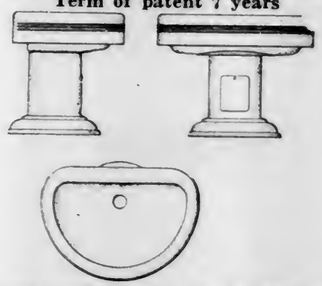
The ornamental design for a shopping bag, as shown.

115,000
DESIGN FOR A RADIATOR ORNAMENT OR SIMILAR ARTICLE
Ludwig Maxenberger, East Cleveland, Ohio
Application February 23, 1939, Serial No. 83,149
Term of patent 7 years



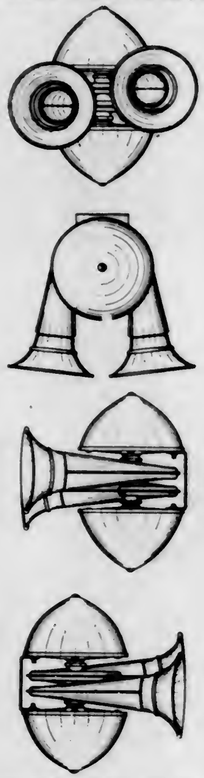
The ornamental design for a radiator ornament or similar article, substantially as shown.

115,001
DESIGN FOR A WASHBASIN
Howard A. Mullett, Milwaukee, Wis., assignor to Bradley Washfountain Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 10, 1938, Serial No. 80,351
Term of patent 7 years



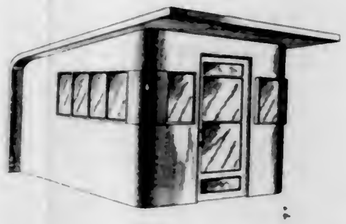
The ornamental design for a washbasin, as shown.

115,002
DESIGN FOR AN AUDIBLE SIGNAL UNIT OR SIMILAR ARTICLE
Peter Nielsen, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a corporation of Nebraska
Application April 19, 1939, Serial No. 84,387
Term of patent 14 years



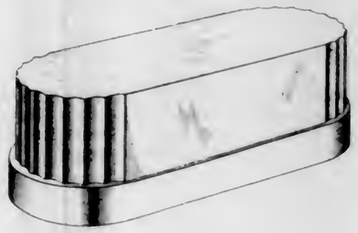
The ornamental design for an audible signal unit or similar article, as shown.

115,003
DESIGN FOR A BUILDING
Nathaniel A. Owings, Chicago, Ill., assignor to Stefco Steel Company, Michigan City, Ind., a corporation of Indiana
Application February 13, 1939, Serial No. 82,961
Term of patent 14 years



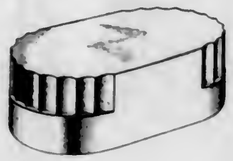
The ornamental design for a building, as shown and described.

115,004
DESIGN FOR A TROPHY BASE
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 7, 1939, Serial No. 83,389
Term of patent 3½ years



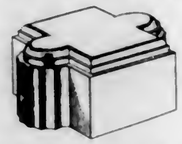
The ornamental design for a trophy base, as shown.

115,005
DESIGN FOR A TROPHY BASE
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 7, 1939, Serial No. 83,390
Term of patent 3½ years



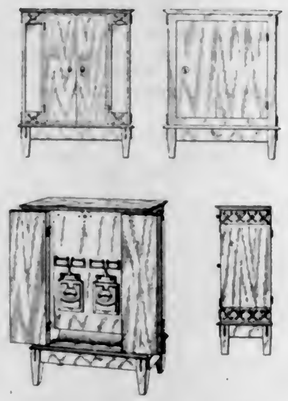
The ornamental design for a trophy base, as shown.

115,006
DESIGN FOR A TROPHY BASE
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 7, 1939, Serial No. 83,391
Term of patent 3½ years



The ornamental design for a trophy base, as shown.

115,007
DESIGN FOR A CIGARETTE VENDING CABINET
Lloyd Rose, Long Beach, N. Y.
Application March 1, 1939, Serial No. 83,278
Term of patent 7 years

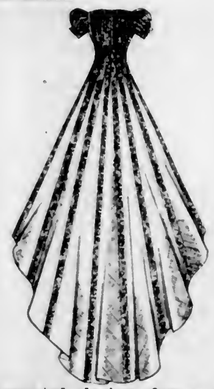


The ornamental design for a cigarette vending cabinet, as shown.

115,008
DESIGN FOR A WEDDING GOWN
Murray J. Shapiro, New York, N. Y.
Application May 1, 1939, Serial No. 84,694
Term of patent 3½ years

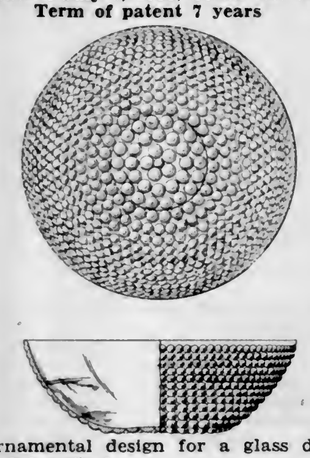


115,008—Continued



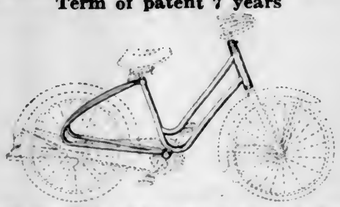
The ornamental design for a wedding gown, substantially as shown.

115,009
DESIGN FOR A GLASS DISH
Maurice A. Smith, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application July 7, 1938, Serial No. 78,324
Term of patent 7 years



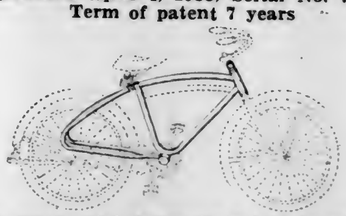
The ornamental design for a glass dish, as shown and described.

115,010
DESIGN FOR A BICYCLE
Walter V. Smith, Toledo, Ohio, assignor to The American-National Company, Toledo, Ohio, a corporation of Ohio
Application April 4, 1938, Serial No. 76,286
Term of patent 7 years



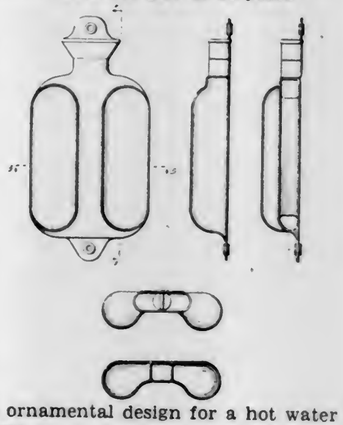
The ornamental design for a bicycle, substantially as shown and described.

115,011
DESIGN FOR A BICYCLE
Walter V. Smith, Toledo, Ohio, assignor to The American-National Company, Toledo, Ohio, a corporation of Ohio
Application April 4, 1938, Serial No. 76,287
Term of patent 7 years



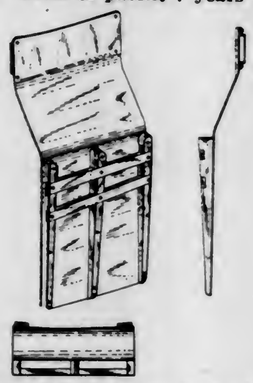
The ornamental design for a bicycle, substantially as shown and described.

115,012
DESIGN FOR A HOT WATER BOTTLE
Charles Tilz, Pleasantville, N. J.
Application March 22, 1939, Serial No. 83,773
Term of patent 14 years



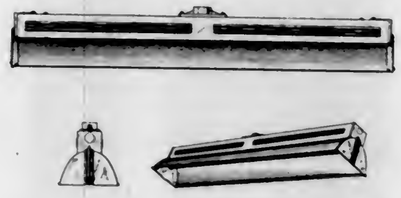
The ornamental design for a hot water bottle, as shown.

115,013
DESIGN FOR A KNIFE RACK
Samuel Vallon, San Francisco, Calif.
Application March 4, 1939, Serial No. 83,352
Term of patent 7 years



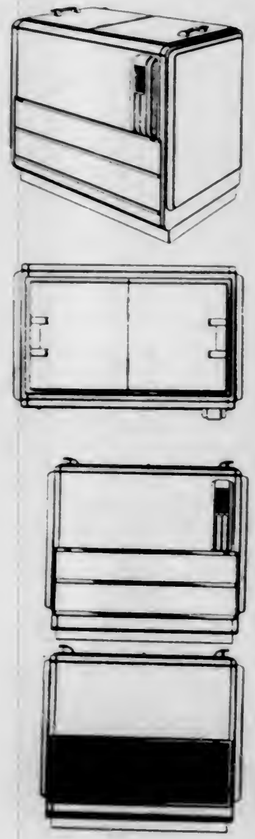
The ornamental design for a knife rack, substantially as shown.

115,014
DESIGN FOR A LIGHTING FIXTURE
Chauncey E. Waltman, Chicago, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application March 6, 1939, Serial No. 83,360
Term of patent 7 years

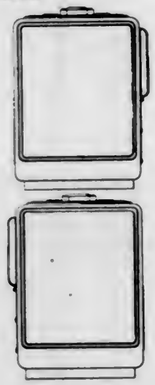


The ornamental design for a lighting fixture, substantially as shown.

115,015
DESIGN FOR A BEVERAGE COOLER CABINET
Evert S. Wegman, East Longmeadow, and Ralph E. Kruck, Springfield, Mass.
Application March 4, 1939, Serial No. 83,340
Term of patent 14 years

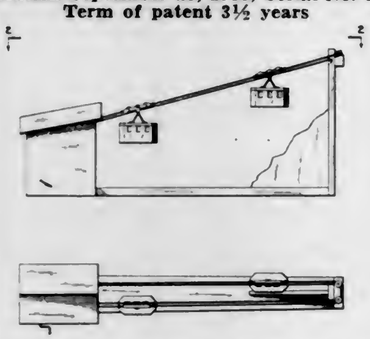


115,015—Continued



The ornamental design for a beverage cooler cabinet, as shown.

115,016
DESIGN FOR A CONSTRUCTION TOY
William H. Arkley, St. Johnsbury, Vt.
Application September 28, 1938, Serial No. 80,130
Term of patent 3½ years



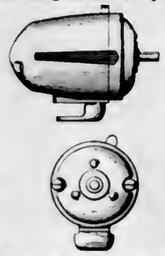
The ornamental design for a construction toy, as shown.

115,017
DESIGN FOR A CAKE OF SOAP
Edwin V. Babbitt, Marion, Mass.
Application September 16, 1938, Serial No. 79,934
Term of patent 14 years



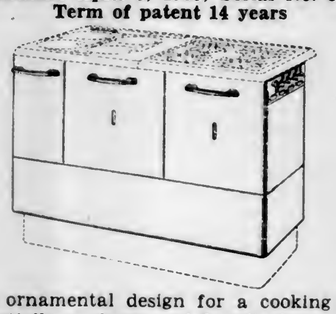
The ornamental design for a cake of soap, as shown.

115,018
DESIGN FOR AN ELECTRIC MOTOR
Gustave F. Bahr, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application March 3, 1939, Serial No. 83,318
Term of patent 14 years



The ornamental design for an electric motor, as shown.

115,019
DESIGN FOR A COOKING RANGE
Eugene L. Baker, Taunton, Mass.
Application April 5, 1939, Serial No. 84,063
Term of patent 14 years



The ornamental design for a cooking range, substantially as shown and described.

115,020
DESIGN FOR A DOLL OR SIMILAR ARTICLE
Howard Bay, New York, N. Y., assignor to The Petroleum Industry Exhibition Inc., New York, N. Y., a corporation of Delaware
Application January 31, 1939, Serial No. 82,689
Term of patent 3½ years



The ornamental design for a doll or similar article, as shown.

115,021
DESIGN FOR A LABEL
Alberta M. Bourne, Douglas County, Nev.
Application March 6, 1939, Serial No. 83,387
Term of patent 14 years



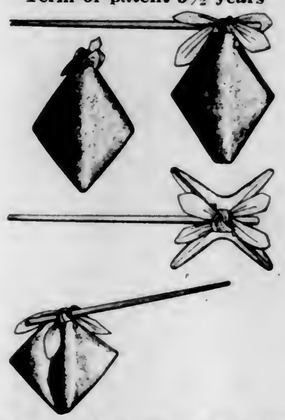
The ornamental design for a label, substantially as shown.

115,022
DESIGN FOR A COUCH
Arthur F. Breglia, New York, N. Y.
Application March 10, 1939, Serial No. 83,495
Term of patent 7 years



The ornamental design for a couch, as shown.

115,023
DESIGN FOR A LADY'S HANDBAG OR SIMILAR ARTICLE
Benjamin Robert Brody, New York, N. Y.
Application April 8, 1939, Serial No. 84,159
Term of patent 3½ years



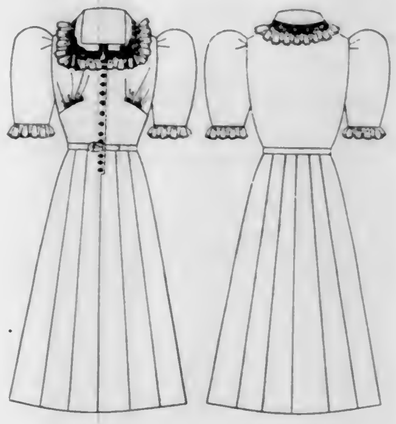
The ornamental design for a lady's handbag or similar article, as shown.

115,024
DESIGN FOR A DRESS
Robert Caine, New York, N. Y.
Application April 29, 1939, Serial No. 84,655
Term of patent 3½ years



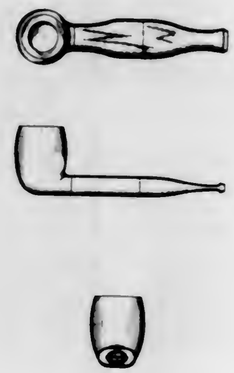
The ornamental design for a dress, substantially as shown.

115,025
DESIGN FOR A DRESS
Robert Caine, New York, N. Y.
Application April 29, 1939, Serial No. 84,659
Term of patent 3½ years



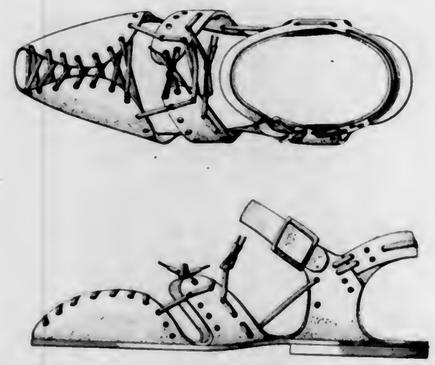
The ornamental design for a dress, substantially as shown.

115,026
DESIGN FOR A SMOKING PIPE
Giuseppe Cippico, Rome, Italy, assignor to Zeus Corporation, New York, N. Y., a corporation of Delaware
Application March 21, 1939, Serial No. 83,723
Term of patent 7 years



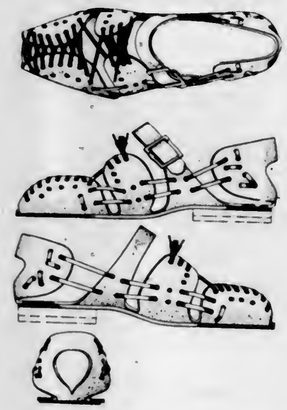
The ornamental design for a smoking pipe, substantially as shown.

115,027
DESIGN FOR A SANDAL OR SIMILAR ARTICLE
Herschel S. Davis, Little Rock, Ark.
Application April 3, 1939, Serial No. 83,996
Term of patent 14 years



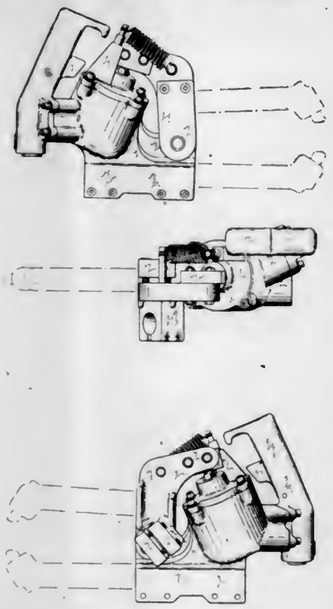
The ornamental design for a sandal or similar article, as shown.

115,028
DESIGN FOR A SANDAL OR SIMILAR ARTICLE
Herschel S. Davis, Little Rock, Ark.
Application April 3, 1939, Serial No. 83,997
Term of patent 14 years



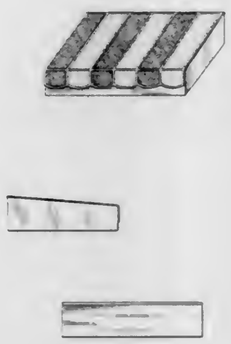
The ornamental design for a sandal or similar article, as shown.

115,029
DESIGN FOR A WELDING GUN
Meril L. Eckman, Cleveland, Ohio, assignor to The American Coach and Body Company, Cleveland, Ohio, a corporation of Ohio
Application March 9, 1939, Serial No. 83,481
Term of patent 14 years



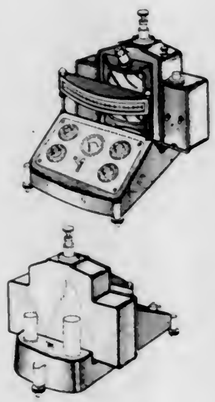
The ornamental design for a welding gun, as shown and described.

115,030
DESIGN FOR A CIGARETTE CASE OR SIMILAR ARTICLE
Norman Edwards, New York, N. Y., assignor to Paul E. Plato, New York, N. Y.
Application March 22, 1939, Serial No. 83,748
Term of patent 3½ years



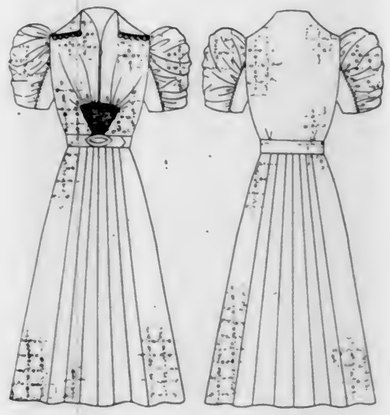
The ornamental design for a cigarette case or similar article, substantially as shown.

115,031
DESIGN FOR A GALVANOMETER
Francis C. Ellis, Chicago, Ill.
Application September 1, 1938, Serial No. 79,672
Term of patent 14 years



The ornamental design for a galvanometer, as shown.

115,032
DESIGN FOR A DRESS
Louis Epstein, New York, N. Y.
Application April 21, 1939, Serial No. 84,448
Term of patent 3½ years



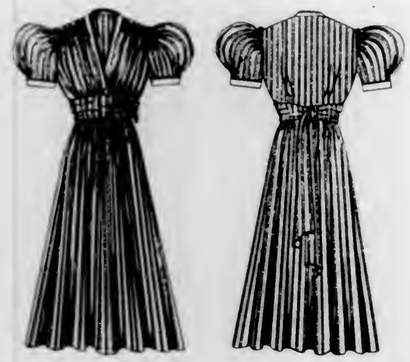
The ornamental design for a dress, substantially as shown.

115,033
DESIGN FOR A BROOCH OR SIMILAR ARTICLE OF JEWELRY
Gladys Shaw Erskine, New York, N. Y.
Application April 7, 1939, Serial No. 84,105
Term of patent 3½ years



The ornamental design for a brooch or similar article of jewelry, as shown.

115,034
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,215
Term of patent 3½ years



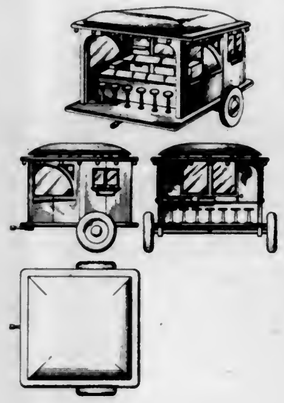
The ornamental design for a dress, substantially as shown and described.

115,035
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application April 12, 1939, Serial No. 84,218
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,036
DESIGN FOR A DINETTE TRAILER
Lewis C. Franco, New York, N. Y.
Application October 19, 1938, Serial No. 80,552
Term of patent 14 years



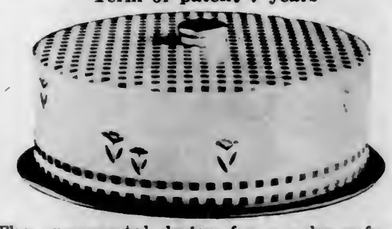
The ornamental design for a dinette trailer, as shown.

115,037
DESIGN FOR A DRESS
Morris Galowitz, New York, N. Y.
Application April 21, 1939, Serial No. 84,446
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,038
DESIGN FOR A CAKE SAFE
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application October 4, 1938, Serial No. 80,250
Term of patent 7 years



The ornamental design for a cake safe, substantially as shown and described.

115,039
DESIGN FOR A BREAD BOX
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application October 4, 1938, Serial No. 80,251
Term of patent 7 years



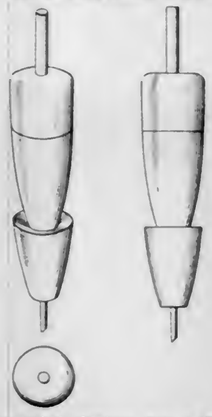
The ornamental design for a bread box, substantially as shown and described.

115,040
DESIGN FOR A CANISTER OR SIMILAR ARTICLE
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application October 4, 1938, Serial No. 80,252
Term of patent 7 years



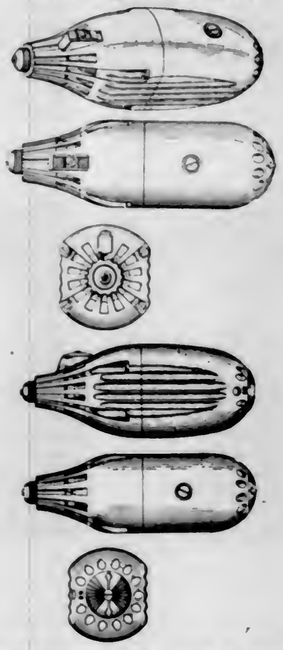
The ornamental design for a canister or similar article, substantially as shown and described.

115,041
DESIGN FOR A FISHING FLOAT
Earl Ray Griffith, Beaumont, Tex., assignor of one-half to Seldon B. Small, Beaumont, Tex.
Application March 23, 1939, Serial No. 83,799
Term of patent 7 years



The ornamental design for a fishing float, as shown.

115,042
DESIGN FOR A POWER-DRIVEN HAND TOOL UNIT
Theron L. Hedgpeth, Oak Park, Ill., assignor to Duro Metal Products Company, Chicago, Ill., a corporation of Illinois
Application February 27, 1939, Serial No. 83,227
Term of patent 14 years



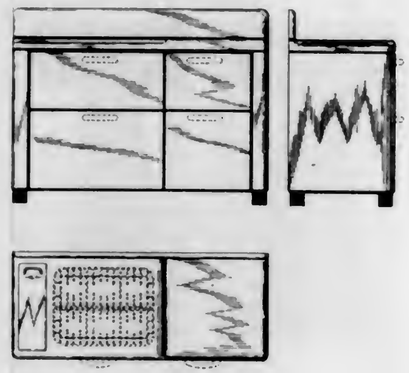
The ornamental design for a power-driven hand tool unit, as shown.

115,043
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y.
Application April 21, 1939, Serial No. 84,451
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

115,044
DESIGN FOR A RANGE
Charles J. Kessler, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application March 21, 1938, Serial No. 75,992
Term of patent 14 years



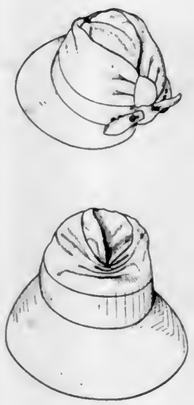
The ornamental design for a range, as shown and described.

115,045
DESIGN FOR A GAME APPARATUS
Otto Lobl, Middleboro, Mass.
Application March 23, 1939, Serial No. 83,800
Term of patent 7 years



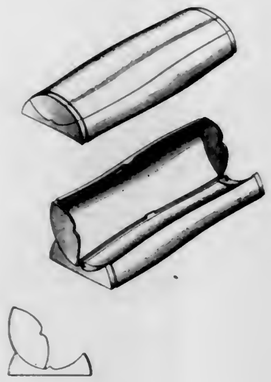
The ornamental design for a game apparatus, as shown.

115,046
DESIGN FOR A HAT
Murray J. Marks, New York, N. Y.
Application April 1, 1939, Serial No. 83,970
Term of patent 3½ years



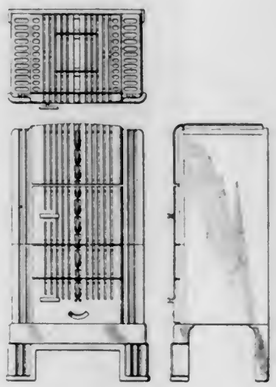
The ornamental design for a hat, as shown.

115,047
DESIGN FOR A DISPLAY BOX
Frank W. Matthay, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application November 3, 1938, Serial No. 80,847
Term of patent 7 years



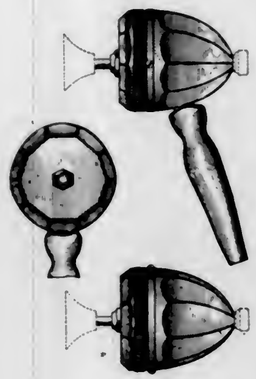
The ornamental design for a display box, substantially as shown and described.

115,048
DESIGN FOR A STOVE
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application September 10, 1938, Serial No. 79,837
Term of patent 7 years



The ornamental design for a stove, substantially as shown.

115,049
DESIGN FOR A VIBRATOR
Fernando L. Renga, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 10, 1939, Serial No. 82,911
Term of patent 7 years



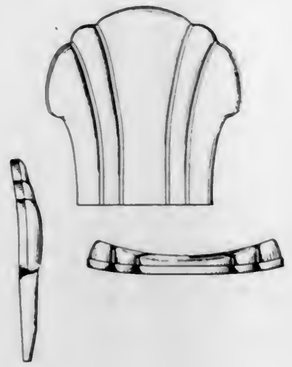
The ornamental design for a vibrator, substantially as shown and described.

115,050
DESIGN FOR A DRESS
Maxwell Richter, New York, N. Y.
Application April 22, 1939, Serial No. 84,484
Term of patent 3½ years



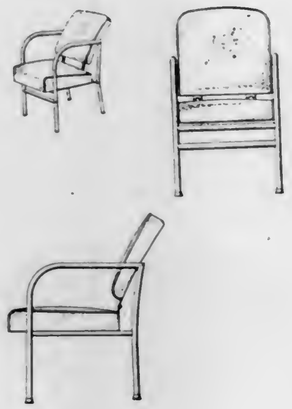
The ornamental design for a dress, substantially as shown.

115,051
DESIGN FOR A CHAIR BACK
John Gordon Rideout, Cleveland, Ohio, assignor to Calumet Manufacturing Corporation, Hammond, Ind.
Application January 30, 1939, Serial No. 82,670
Term of patent 7 years



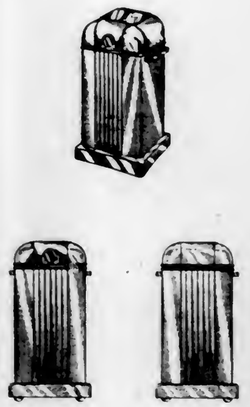
The ornamental design for a chair back substantially as shown.

115,052
DESIGN FOR A CHAIR
Irving Salomon, Chicago, Ill.
Application September 29, 1938, Serial No. 80,134
Term of patent 7 years



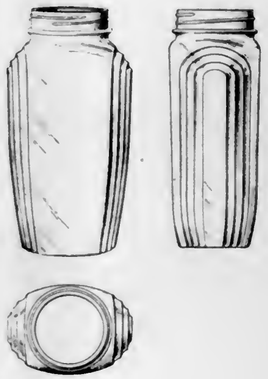
The ornamental design for a chair, as shown.

115,053
DESIGN FOR A LUBRICATOR CASING
Dugald A. Shaw, Canton, Ohio, assignor to The United States Air Compressor Company
Application March 31, 1939, Serial No. 83,946
Term of patent 14 years



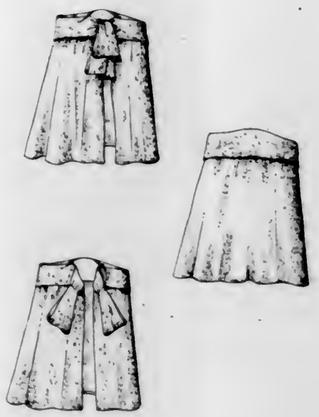
The ornamental design for a lubricator casing, substantially as shown.

115,054
DESIGN FOR A JAR
Frasier Smith, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application January 11, 1939, Serial No. 82,297
Term of patent 7 years



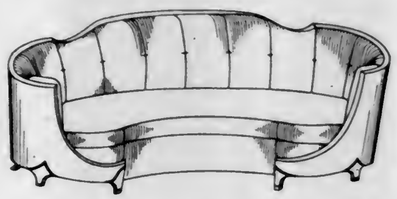
The ornamental design for a jar, as shown.

115,055
DESIGN FOR A FUR CAPE
Harry Soldinger, Edgemere, Long Island, N. Y.
Application April 27, 1939, Serial No. 84,592
Term of patent 14 years



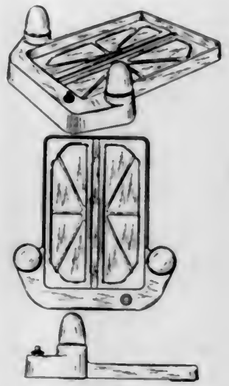
The ornamental design for a fur cape, as shown.

115,056
DESIGN FOR A SOFA OR SIMILAR ARTICLE
Charles Stoll, New York, N. Y.
Application March 11, 1939, Serial No. 83,524
Term of patent 3½ years



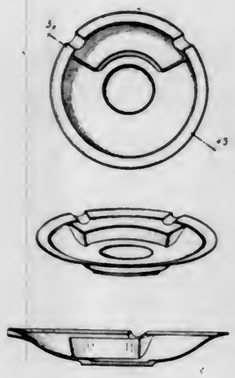
The ornamental design for a sofa or similar article, substantially as shown.

115,057
DESIGN FOR A COMBINED LAMP AND STAND FOR A DIAL TELEPHONE
William C. Swalley and Arthur J. Lichtinger, Cleveland, Ohio, assignor to The Dialite Company, Cleveland, Ohio, a corporation of Ohio
Application February 17, 1939, Serial No. 83,068
Term of patent 7 years



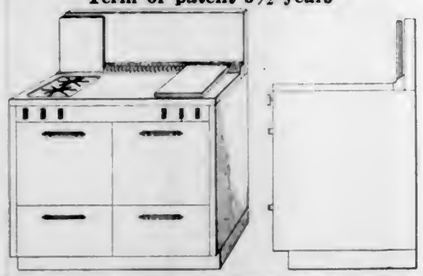
The ornamental design for a combined lamp and stand for a dial telephone, substantially as shown.

115,058
DESIGN FOR A COMBINATION ASHTRAY AND SAUCER
Madeline C. Twomey, New York, N. Y.
Application April 3, 1939, Serial No. 84,012
Term of patent 3½ years



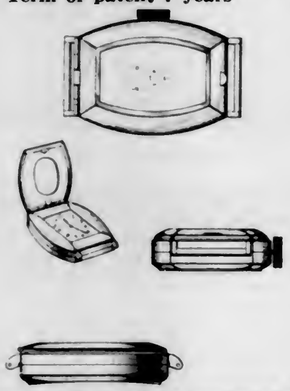
The ornamental design for a combination ashtray and saucer, as shown.

115,059
DESIGN FOR A RANGE
Clarence F. Wiley, Norton, Mass., assignor to Glenwood Range Company, Taunton, Mass., a corporation of Massachusetts
Application November 17, 1938, Serial No. 81,165
Term of patent 3½ years



The ornamental design for a range, substantially as shown and described.

115,060
DESIGN FOR A COMBINED WATCHCASE AND LOCKET
William C. Barthman, New York, N. Y.
Application August 1, 1938, Serial No. 79,019
Term of patent 7 years



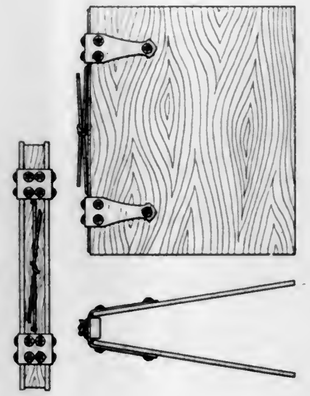
The ornamental design for a combined watchcase and locket, as shown and described.

115,061
DESIGN FOR A SWEATER OR SIMILAR ARTICLE
Hans Boepple, Valley Cottage, N. Y.
Application March 16, 1939, Serial No. 83,601
Term of patent 3½ years



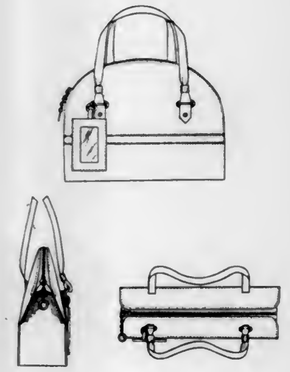
The ornamental design for a sweater or similar article, as shown and described.

115,062
DESIGN FOR A BOOK COVER
Frederick W. Brehm, Seattle, Wash.
Application June 20, 1938, Serial No. 77,947
Term of patent 3½ years



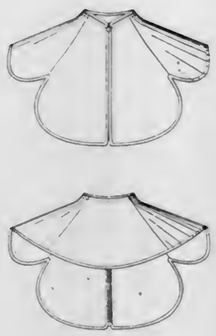
The ornamental design for a book cover, as shown.

115,063
DESIGN FOR A HANDBAG
Moe J. Cohen and Abraham Wirklich, New York, N. Y.
Application May 5, 1939, Serial No. 84,807
Term of patent 3½ years



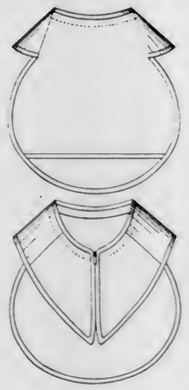
The ornamental design for a handbag, substantially as shown.

115,064
DESIGN FOR A VANITY CAPE OR SIMILAR ARTICLE
Mathilde T. Fadie, Oakland, Calif.
Application August 23, 1938, Serial No. 79,517
Term of patent 3½ years



The ornamental design for a vanity cape, or similar article, substantially as shown and described.

115,065
DESIGN FOR A BIB OR SIMILAR ARTICLE
Mathilde T. Fadie, Oakland, Calif.
Application August 23, 1938, Serial No. 79,518
Term of patent 3½ years



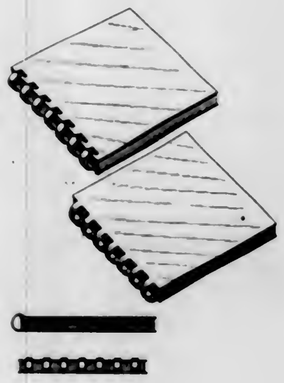
The ornamental design for a bib or similar article, substantially as shown and described.

115,066
DESIGN FOR A BIB OR SIMILAR ARTICLE
Mathilde T. Fadie, Oakland, Calif.
Application August 23, 1938, Serial No. 79,519
Term of patent 3½ years



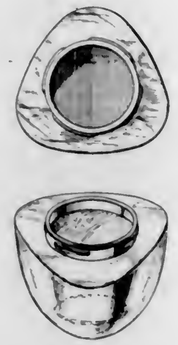
The ornamental design for a bib or similar article, substantially as shown and described.

115,067
DESIGN FOR A BOOK
Emil N. Farkas and Frank F. Farkas, Chicago, Ill.
Application August 27, 1938, Serial No. 79,603
Term of patent 14 years



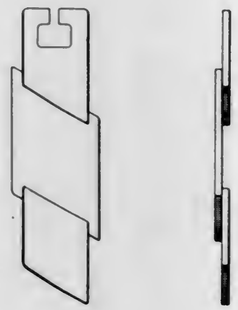
The ornamental design for a book, as shown.

115,068
DESIGN FOR A JAR
Gustav Jensen, New York, N. Y., assignor to John G. Paton Company, New York, N. Y.
Application October 31, 1938, Serial No. 80,770
Term of patent 7 years



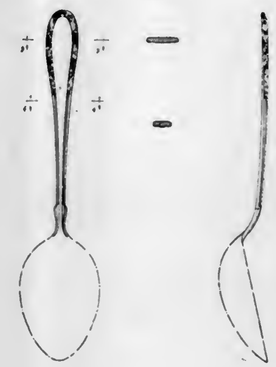
The ornamental design for a jar, as shown.

115,069
DESIGN FOR A PULL TAB FOR SLIDE FASTENERS
Noel J. Poux, Meadville, Pa.
Application October 14, 1938, Serial No. 80,447
Term of patent 14 years



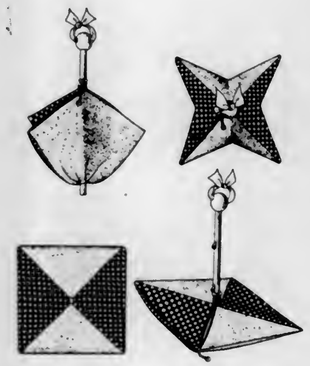
The ornamental design for a pull tab for slide fasteners, substantially as shown and described.

115,070
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
James Russell Price, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application March 9, 1938, Serial No. 75,686
Term of patent 14 years



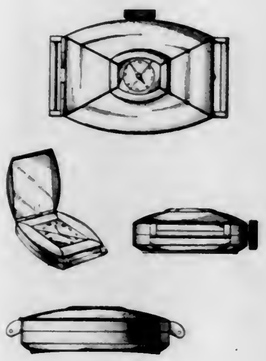
The ornamental design for a spoon or other article of flatware, substantially as shown.

115,071
DESIGN FOR A HANDBAG OR SIMILAR ARTICLE
Eli Rosenberg, New York, N. Y.
Application May 3, 1939, Serial No. 84,756
Term of patent 3½ years



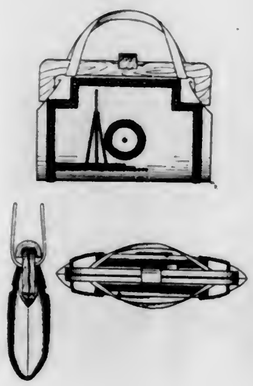
The ornamental design for a handbag or similar article, substantially as shown.

115,072
DESIGN FOR A COMBINED WATCH AND COMPASS
William R. Shillaber, New York, N. Y.
Application August 24, 1938, Serial No. 79,553
Term of patent 7 years



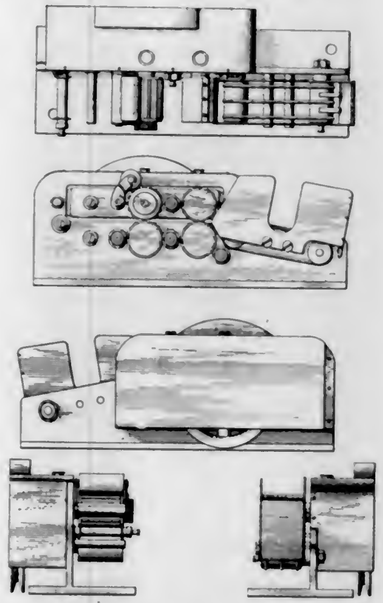
The ornamental design for a combined watch and compass, as shown.

115,073
DESIGN FOR A HANDBAG
Saul Blatt, New York, N. Y.
Application May 6, 1939, Serial No. 84,848
Term of patent 3½ years



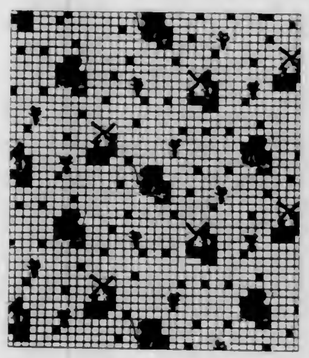
The ornamental design for a handbag, substantially as shown, and described.

115,074
DESIGN FOR A PORTABLE PRINTING MACHINE
Herman W. Boetticher, Detroit, Mich., assignor to George James, Detroit, Mich.
Application February 3, 1939, Serial No. 82,765
Term of patent 14 years



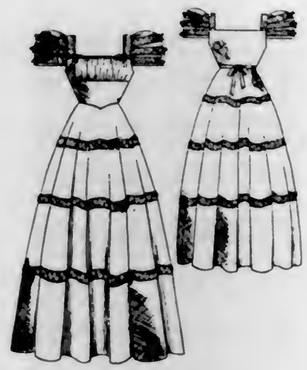
The ornamental design for a portable printing machine, as shown.

115,075
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Edmond P. Bixer, New York, N. Y., assignor to Bartmann & Bixer Inc., New York, N. Y., a corporation of New York
Application March 2, 1938, Serial No. 75,518
Term of patent 3½ years



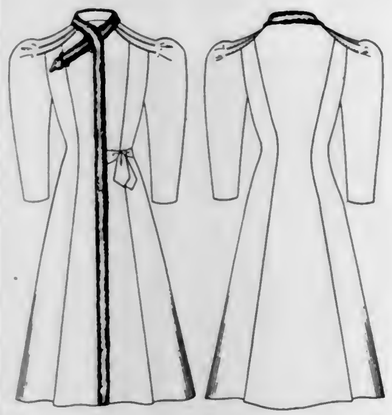
The ornamental design for a textile fabric or similar article, as shown and described.

115,076
DESIGN FOR A DRESS
Phyllis Byrnes, New York, N. Y.
Application January 26, 1939, Serial No. 82,608
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,077
DESIGN FOR A COAT
Louis Newman, New York, N. Y.
Application May 9, 1939, Serial No. 84,883
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

115,078
DESIGN FOR A COAT
Louis Newman, New York, N. Y.
Application May 9, 1939, Serial No. 84,884
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

115,079
DESIGN FOR EMBROIDERED TEXTILE FABRIC OR SIMILAR ARTICLE
Dan Rubenberg, New York, N. Y., assignor to Rubenberg Silk Company, Inc., New York, N. Y.
Application January 9, 1939, Serial No. 82,236
Term of patent 3½ years



The ornamental design for embroidered textile fabric or similar article, as shown.

115,080
DESIGN FOR EMBROIDERED TEXTILE FABRIC OR SIMILAR ARTICLE
Dan Rubenberg, New York, N. Y., assignor to Rubenberg Silk Company, Inc., New York, N. Y.
Application January 9, 1939, Serial No. 82,238
Term of patent 3½ years



The ornamental design for embroidered textile fabric or similar article, as shown.

115,081
DESIGN FOR EMBROIDERED TEXTILE FABRIC OR SIMILAR ARTICLE
Dan Rubenberg, New York, N. Y., assignor to Rubenberg Silk Company, Inc., New York, N. Y.
Application January 9, 1939, Serial No. 82,239
Term of patent 3½ years



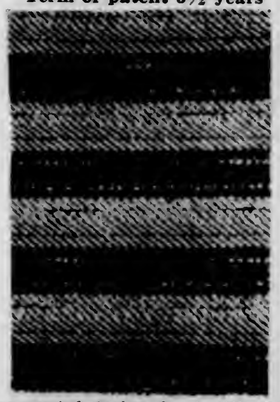
The ornamental design for embroidered textile fabric or similar article, as shown.

115,082
DESIGN FOR TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,399
Term of patent 3½ years



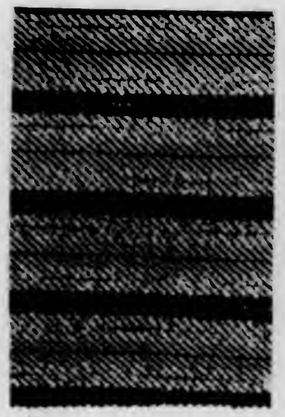
The ornamental design for textile fabric, substantially as shown.

115,083
DESIGN FOR TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,400
Term of patent 3½ years



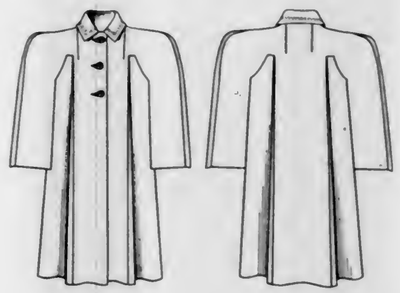
The ornamental design for textile fabric, substantially as shown.

115,084
DESIGN FOR TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,401
Term of patent 3½ years



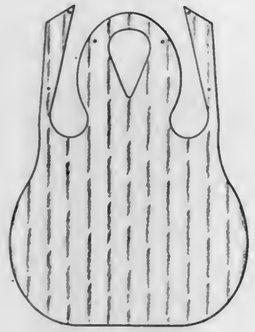
The ornamental design for textile fabric, substantially as shown.

115,085
DESIGN FOR A COAT
Jacob A. Silverman, New York, N. Y.
Application May 6, 1939, Serial No. 84,845
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

115,086
DESIGN FOR AN APRON
Abraham N. Spanel, Dover, Del.
Application June 11, 1938, Serial No. 77,774
Term of patent 14 years



The ornamental design for an apron, substantially as shown and described.

115,087
DESIGN FOR A RUG
August Beck, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin
Application March 8, 1939, Serial No. 83,437
Term of patent 7 years



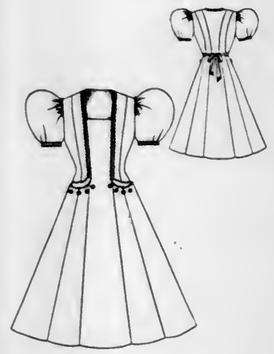
The ornamental design for a rug, as shown.

115,088
DESIGN FOR A RUG
August Beck, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin
Application March 8, 1939, Serial No. 83,438
Term of patent 7 years



The ornamental design for a rug, as shown.

115,089
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,732
Term of patent 3½ years



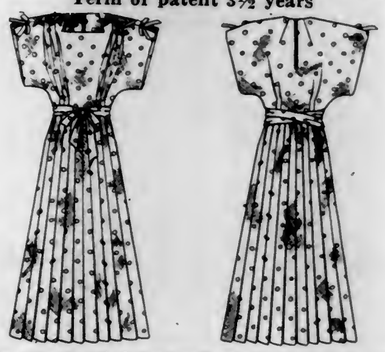
The ornamental design for a dress, substantially as shown.

115,090
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,743
Term of patent 3½ years



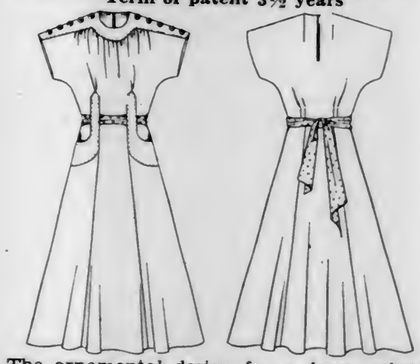
The ornamental design for a dress, substantially as shown.

115,091
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,745
Term of patent 3½ years



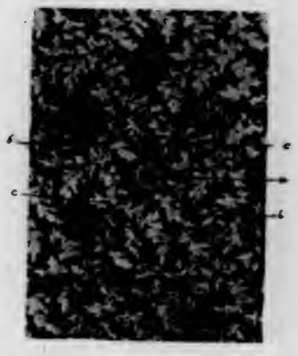
The ornamental design for a dress, substantially as shown.

115,092
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,747
Term of patent 3½ years



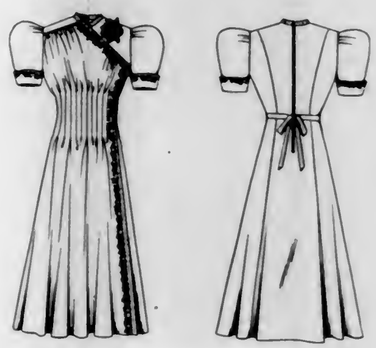
The ornamental design for a dress, substantially as shown.

115,093
DESIGN FOR A TEXTILE FABRIC FOR UPHOLSTERY
Edna F. Leonhardt, Mount Airy, Philadelphia, Pa., assignor to Northampton Textile Company, Mount Holly, N. J., a corporation of New Jersey
Application November 2, 1937, Serial No. 72,593
Term of patent 3½ years



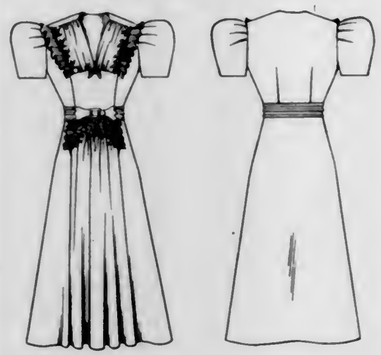
The ornamental design for a textile fabric for upholstery, as shown and described.

115,094
DESIGN FOR A DRESS
Henry Meisler, New York, N. Y.
Application May 8, 1939, Serial No. 84,856
Term of patent 3½ years



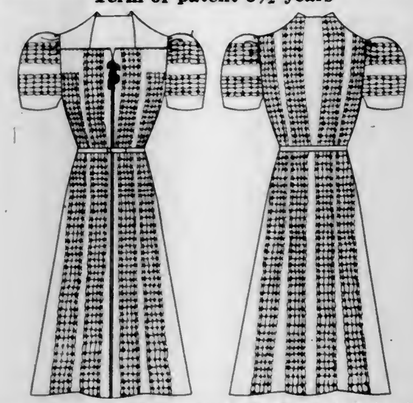
The ornamental design for a dress, substantially as shown.

115,095
DESIGN FOR A DRESS
Henry Meisler, New York, N. Y.
Application May 8, 1939, Serial No. 84,857
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,096
DESIGN FOR A DRESS
Victor Tomshinsky, New York, N. Y.
Application May 6, 1939, Serial No. 84,823
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

OFFICIAL GAZETTE

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UNITED STATES PATENT OFFICE

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[Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (*).]

ERRATA

Classified List of Trade-Marks Registered—Page viii, under heading "Class 21" strike out "Golf balls. Rubber Specialties Company, Inc. 368,376; June 13; Serial No. 416,295; published April 4, 1939." and insert same under heading of Class 22. O. G. June 13, 1939.

429428

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adirondack Foundries and Steel, Inc., Watervliet, N. Y. Castings of ferrous metals. Serial No. 416,935; June 6. Class 14.

Altman, B., & Co., New York, N. Y. Furniture. Serial No. 417,740; June 6. Class 32.

American Cyanimid & Chemical Corporation, New York, N. Y. Chemical compound. Serial No. 417,394; June 6. Class 6.

American Porcelain Enamel Company, Muskegon, Mich. Porcelain frit. Serial No. 416,635; June 6. Class 1.

Amerise, William, also doing business as Hazleton Macaroni Co., Hazleton, Pa. Tomato paste, macaroni, canned fish, etc. Serial No. 412,245; June 6. Class 46.

Amirol-Admiracion Sales Corporation, Newark, N. J. Hair coloring and shampoo treatment. Serial No. 417,355; June 6. Class 6.

Andresen, Incorporated, Pittsburgh, Pa. Periodical. Serial No. 414,941; June 6. Class 38.

Andresin Laboratories. (See Levy, Rosabelle.)

Aqua-Sec Corp., New York, N. Y. Chemical preparations for finishing, sizing, etc., fabrics. Serial No. 417,047; June 6. Class 6.

Aqua-Sec Corporation, now by change of name Ymba Corporation, assignor to Aqua-Sec Corporation, New York, N. Y. Piece goods treated by a special process to render the same waterproof or water spot-proof and otherwise improve the same. Serial No. 361,596; June 6. Class 50.

Associated Chemists. (See Miner, Deborah C.)

Association of 20–30 Clubs, The, Sacramento, Calif. Magazine. Serial No. 417,432; June 6. Class 38.

Athletika Laboratories. (See Kenda, Paul.)

Auto Radiator Manufacturing Co., Chicago, Ill. Electric direction signals, and switches for such signals. Serial No. 414,617; June 6. Class 21.

B. & N. Novelty Co., New York, N. Y. Infants' bathrobes, nightgowns, kimonos, etc. Serial No. 417,356; June 6. Class 39.

Bamberger, L., & Co., Newark, N. J. Golf balls. Serial No. 418,761; June 6. Class 22.

Bauer, Dr. Armin, & Co. G. m. b. H., Berlin, Germany. Tonics. Serial No. 415,493; June 6. Class 6.

Benrus Watch Co., Inc., New York, N. Y. Watches and watches and attached bracelets sold as a unit. Serial No. 416,679; June 6. Class 27.

Bio-Products Laboratory Co., Brooklyn, N. Y. Medicinal preparation. Serial No. 416,282; June 6. Class 6.

Bloomingdale Bros., Inc., New York, N. Y. Hot water bottles and syringes. Serial No. 418,510; June 6. Class 44.

Bonwit Teller, Inc., New York, N. Y. Dresses, teagowns, coats, etc. Serial No. 418,075; June 6. Class 39.

Braiden, William A., Antonito, Colo. Beef cattle. Serial No. 398,385; June 6. Class 46.

Branower, Edmund I., doing business as Branower Chemical Company, New York, N. Y. Mouth deodorant. Serial No. 415,156; June 6. Class 6.

Brewster Shirt Corporation, New York, N. Y. Men's shirts. Serial No. 417,640; June 6. Class 39.

Brown, William R., Kansas City, Mo. Dresses. Serial No. 417,437; June 6. Class 39.

Bruce's Marble and Granite Works, Fort Scott, Kans. Granite monuments. Serial No. 416,943; June 6. Class 50.

Brunsviga-Maschinenwerke Grimme, Natalis & Co. Akt.-Ges., Brunswick, Germany. Calculating and adding machines. Serial No. 415,581; June 6. Class 26.

Burgess Supply Co., Inc., New York, N. Y. Paste for use in the manufacture of confectionery. Serial No. 417,115; June 6. Class 46.

Buzza Company, The, Minneapolis, Minn. Greeting cards. Serial No. 417,486; June 6. Class 38.

Callaway, C. C., Jr., Atlanta, Ga. Maltless carbonated beverages, syrups, and extracts. Serial No. 417,258; June 6. Class 45.

Cape Cod Art Glass Co., North Abington, Mass. Glass tableware and decorative glass. Serial No. 414,336; June 6. Class 33.

Cartier, Inc., New York, N. Y. Perfume extracts, toilet waters, face powders, etc. Serial No. 418,476; June 6. Class 6.

Caso, Frank P., New York, N. Y. Local anesthetic. Serial No. 415,624; June 6. Class 6.

Central Breweries, Inc., East St. Louis, Ill. Beer. Serial No. 402,510; June 6. Class 48.

Century Furniture Associates, Inc., New York, N. Y. Furniture. Serial No. 416,131; June 6. Class 32.

Charak Furniture Company, Boston, Mass. Furniture. Serial No. 418,132; June 6. Class 32.

Chicago Musical Instrument Company, Chicago, Ill. Phonographs and combination radio-phonographs. Serial No. 417,262; June 6. Class 36.

Chopnick, Charles, New York, N. Y. Cameras, photographic optical filters, enlarging equipment, etc. Serial No. 404,797; June 6. Class 26.

Christie-Lucas Company, Rochester, N. Y. Paper drill. Serial No. 418,186; June 6. Class 23.

Clayton, Lulu, doing business as Madam Lulu Clayton, Kinloch, Mo. Hair pomade. Serial No. 416,891; June 6. Class 6.

Climax Reflector, Inc., Canton, Ohio. Reflectors and display lighting. Serial No. 405,371; June 6. Class 34.

Coast Fishing Company, Wilmington, Calif. Canned tuna fish flakes. Serial No. 417,746; June 6. Class 46.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. Serial No. 417,329; June 6. Class 4.

Coopers, Incorporated, Kenosha, Wis. Men's undergarments. Serial No. 395,638; June 6. Class 39.

Cortland Line Company, Inc., Cortland, N. Y. Fish lines. Serial Nos. 418,822–3; June 6. Class 22.

Courtaulds, Limited, London, England. Rayon yarn. Serial No. 417,488; June 6. Class 43.

Courtaulds, Limited, London, England. Rayon piece goods. Serial No. 417,489; June 6. Class 42.

Covertex Company, Perth Amboy, N. J. Adhesively coated transparent film-sheets. Serial No. 417,330; June 6. Class 37.

Crown Rubber Company, Los Angeles, Calif. Sheath prophylactics. Serial Nos. 418,565–6; June 6. Class 44.

Crown Specialties, Inc., Newark, N. J. Carpet sweepers. Serial No. 417,360; June 6. Class 23.

Curvilite Products, Inc., New York, N. Y. Surgical retractors, tongue depressors, cheek retractors, etc. Serial No. 417,203; June 6. Class 44.

Daniels, Ward, Montalvo, Calif. Fresh citrus fruits. Serial No. 416,250; June 6. Class 46.

Decker, Ira M., Denver, Colo. Cigarettes. Serial No. 417,331; June 6. Class 17.

Dietaid Company, Inc., The, New York, N. Y. Blood tonic. Serial No. 417,871; June 6. Class 6.

Distillerie de la Suze (Société Anonyme), Maisons-Alfort, France. Alcoholic liqueurs. Serial No. 414,184; June 6. Class 49.

Doho Chemical Corporation, The, New York, N. Y. Antiseptic ear drops. Serial No. 418,771; June 6. Class 6.

Donougher, Ernest, doing business as E. Donougher Cocoanut Products Co., San Francisco, Calif. Syrup extracted from cocoanuts. Serial No. 417,085; June 6. Class 46.

Donovan, F. C., Inc., Boston, Mass. Leather. Serial No. 417,051; June 6. Class 1.

Dreyfuss, Jerome, doing business as International Ring Company, Buffalo, N. Y. Solid gold finger rings. Serial No. 413,808; June 6. Class 28.

Druggists' Supply Corporation, New York, N. Y. Combs. Serial No. 414,653; June 6. Class 40.

East Asiatic Co., Inc., The, San Francisco, Calif. Peat moss. Serial No. 415,768; June 6. Class 1.

Eaton Paper Corporation, Pittsfield, Mass. Typewriter paper. Serial No. 412,853; June 6. Class 37.

Economy Forms Corporation, Des Moines, Iowa. Forms for concrete structures. Serial No. 414,397; June 6. Class 12.

Edcan Laboratories. (See Sterling, Edward C.)

Edwards, J., & Company, Philadelphia, Pa. Shoes and slippers. Serial No. 417,166; June 6. Class 39.

Electro Acoustic Products Co., Fort Wayne, Ind. Phonograph, combination recording and projecting phonograph, supplies and attachments thereof. Serial No. 404,206; June 6. Class 36.

Emanuel, Jay, Publications, Inc., Philadelphia, Pa. Magazine. Serial No. 417,916; June 6. Class 38.

Epco Manufacturing Company, Inc., South Bend, Ind. Electric lamps. Serial No. 416,797; June 6. Class 21.

Etablissements Antoine Chiris, Compagnie des Produits Aromatiques Chimiques et Medicinaux, Societe Anonyme, Paris, France. Essential oils. Serial No. 412,760; June 6. Class 6.

Fabriques Movada, La Chaux-de-Fonds, Switzerland. Watches and parts of watches. Serial No. 417,959; June 6. Class 27.

Farmers Federation Inc., Asheville, N. C. Dresses, coats, skirts, etc. Serial No. 390,642; June 6. Class 39.

Food Service, The, Decatur, Ill. Food products. Serial No. 417,209; June 6. Class 46.

Forest City Brewery, Inc., Cleveland, Ohio. Beer and ale. Serial No. 418,480; June 6. Class 48.

Fort Massac Chair Company, The, Metropolis, Ill. Combined tables and chairs. Serial No. 418,708; June 6. Class 32.

French, R. T., Company, The, Rochester, N. Y. Antiseptic and germicide. Serial Nos. 417,569–71; June 6. Class 6.

Frigid Process Company. (See Rasmusson, Marlin B.)
Galena Oil Corporation, Cincinnati, Ohio. Motor oils. Serial No. 417,837; June 6. Class 15.
Gardex, Inc., Jersey City, Ind. Printed articles. Serial No. 417,170; June 6. Class 38.
Garfinkel & Ritter, New York, N. Y. Chemises, panties, night-gowns, etc. Serial Nos. 417,529–32; June 6. Class 39.
Gebhardt Chili Powder Company, San Antonio, Tex. Canned tamales. Serial No. 415,983; June 6. Class 46.
General Cable Corporation, New York, N. Y. Insulated electrical wires and cables. Serial No. 404,703; June 6. Class 21.
General Chemical Company, New York, N. Y. Insecticides. Serial No. 418,438; June 6. Class 6.
General Time Instruments Corporation, New York, N. Y., and La Salle, Ill. Clocks and watches. Serial No. 404,645; June 6. Class 27.
General Tire & Rubber Company, The, Akron, Ohio. Liquid preparations for cleaning and dressing rubber articles. Serial No. 381,612; June 6. Class 4.
Glemby Company, Inc., The, New York, N. Y. Hair goods. Serial No. 418,145; June 6. Class 40.
Golden, Seymour S., doing business as Seymour S. Golden Co., New York, N. Y. Piece goods. Serial No. 390,208; June 6. Class 42.
Goldenberg, George, Inc., New York, N. Y. Ladies' and misses' coats, suits, and dresses. Serial No. 417,758; June 6. Class 39.
Goodrich, B. F., Company, The, New York, N. Y. Pneumatic vehicle tires. Serial No. 418,776; June 6. Class 35.
Greentree Publishers, Inc., Boston, Mass. Greeting cards. Serial No. 413,403; June 6. Class 38.
Greif, L., & Bro., Inc., Baltimore, Md. Suits, topcoats, raincoats, etc. Serial No. 413,305; June 6. Class 39.
Haack Bros. Manufacturing Pharmacists, Portland, Oreg. Tablets containing certain drugs. Serial No. 416,511; June 6. Class 6.
Hain, Harold, doing business as Hain Pure Food Co., Los Angeles, Calif. Gelatin dessert and pudding preparation. Serial No. 392,924; June 6. Class 46.
Hamilton Watch Company, Lancaster, Pa. Milling cutters, reamers, pins, etc. Serial No. 412,183; June 6. Class 23.
Hamilton Watch Company, Lancaster, Pa. Straps, cords, bands, etc. Serial No. 416,099; June 6. Class 40.
Hazleton Macaroni Co. (See Amerise, William.)
Heinzkill, John, doing business as John Heinzkill Soap Works, Appleton, Wis. Cheese rennet. Serial No. 414,950; June 6. Class 46.
Henning, Dr. Georg, Chem. Pharm. Werk G. m. b. H., Berlin-Tempelhof, Germany. Preparation containing the glycosides of digitalis. Serial No. 418,569; June 6. Class 6.
Henning, Dr. Georg, Chem. Pharm. Werk G. m. b. H., Berlin-Tempelhof, Germany. Adrenalin extract. Serial No. 418,570; June 6. Class 6.
Hepworth & Grandage Limited, Bradford, England. Engine pistons. Serial No. 414,565; June 6. Class 23.
Herb Products Medicine Company, Jackson, Tenn. Tonic laxative compound. Serial No. 416,011; June 6. Class 6.
Hercules Powder Company, Wilmington, Del. Resin. Serial Nos. 417,760–1; June 6. Class 1.
Hoffmann-La Roche, Inc., Nutley, N. J. Individual containers made of gelatine or other suitable material. Serial No. 418,834; June 6. Class 6.
Hunt, C. Howard, Pen Co., Camden, N. J. Pen points. Serial No. 417,762; June 6. Class 37.
Hunter, Robert L., doing business as The Nautical Clock Company, Norfolk, Va. Watches, clocks, chronometers, and dials therefor. Serial No. 416,226; June 6. Class 27.
International Ring Company. (See Dreyfuss, Jerome.)
International Silver Company, Meriden, Conn. Sterling silver articles of flat-ware and hollow-ware. Serial No. 416,955; June 6. Class 28.
Ivon Bear Co., Inc., New York, N. Y. Ornamental figures. Serial No. 413,755; June 6. Class 50.
Jablow, I., and Company, Philadelphia, Pa. Boys' shirts, shorts, blouses, etc. Serial No. 417,839; June 6. Class 39.
Jarvis, H. E., & Co., Limited, London, England. Toilet soaps. Serial No. 418,409; June 6. Class 4.
Jaxton Clothes Company, Inc., New York, N. Y. Men's and students' suits, suit and slack ensembles, sport coats, etc. Serial No. 418,282; June 6. Class 39.
Johnson, Robert Wm., Baltimore, Md. Medicinal tablets. Serial No. 416,900; June 6. Class 6.
Kay Preparations Co. Inc., New York, N. Y. Skin lotion. Serial No. 414,446; June 6. Class 6.
Keller, Heumann & Thompson Company, Inc., Rochester, N. Y. Men's suits and overcoats. Serial No. 417,917; June 6. Class 39.
Kenneth, Malcolm, Co., Boston, Mass., and New York, N. Y. Overcoats, topcoats, and suits. Serial No. 418,011; June 6. Class 39.
Kessler, Louis, doing business as Novelty Games Co., New York, N. Y. Card number game. Serial No. 418,155; June 6. Class 22.
Labagnara, Frank, doing business as Labagnara & Son, Cleveland, Ohio. Scalp tonic. Serial No. 417,377; June 6. Class 6.
La Forest Laboratories Company, New York and Long Island City, N. Y. Solution of glandular products and mineral salts. Serial No. 415,989; June 6. Class 6.
Laib, Joh., & Cie., Thurgau, Switzerland. Underwear. Serial No. 412,912; June 6. Class 39.
Lampl Knitwear Company, The, Cleveland, Ohio. Dresses, sweaters, blouses, etc. Serial No. 417,110; June 6. Class 39.
Lavino, E. J., and Company, Philadelphia, Pa. Refractory bricks, plastics and cements. Serial No. 417,919–20; June 6. Class 12.
Lavino, E. J., and Company, Philadelphia, Pa. Material for making cast refractory bodies. Serial No. 417,923; June 6. Class 12.
Lavino, E. J., and Company, Philadelphia, Pa. Refractory material for tap hole mixes. Serial No. 417,924; June 6. Class 12.
Lee, Michael E., doing business as The Merlek Co., Oakland, Calif. Artificial mineral waters. Serial No. 409,813; June 6. Class 6.
Lee Sportswear Co., New York, N. Y. Ladies' and misses' bathing suits, beach capes, etc. Serial No. 417,044; June 6. Class 39.
Levy, Rosabelle, doing business as Andresin Laboratories, Springfield Gardens, N. Y. Dentifrice and mouth wash. Serial No. 414,421; June 6. Class 6.
Lewis, Martha, Donora, Pa. Preparations for the hair and treatment of the scalp. Serial No. 417,580; June 6. Class 6.
Licorería Marín Inc., Mayaguez, P. R. Distilled alcoholic spirits. Serial No. 418,843; June 6. Class 49.
Lockwood, L. B., Company, The, Cleveland, Ohio. Wool fiber. Serial No. 413,809; June 6. Class 1.
Lodge Plugs Limited, Rugby, England. Ceramic insulators for sparking plugs. Serial No. 416,469; June 6. Class 21.
Longines-Wittnauer Watch Co. Inc., New York, N. Y. Watches and clocks. Serial Nos. 418,047–8; June 6. Class 27.
Lowell, P. Marcus, Amesbury, Mass. Sail boats. Serial No. 413,413; June 6. Class 19.
Lucerne Cream and Butter Company, The, Oakland, Calif. Eggs. Serial No. 413,996; June 6. Class 46.
Lucerne Cream and Butter Company, The, also doing business as Lucerne Cream and Butter Company, Oakland, Calif. Eggs. Serial No. 415,404; June 6. Class 46.
M and M Wood Working Company, Portland, Oreg. Plywood. Serial No. 417,675; June 6. Class 12.
Maison Joubert, Inc., Jersey City, N. J. Astringents, astringent cerates, beauty creams, etc. Serial No. 417,177; June 6. Class 6.
Man-Sew Pinking Attachment Corp., New York, N. Y. Pinking machines and parts thereof. Serial No. 417,466; June 6. Class 23.
Man-Sew Pinking Attachment Corp., New York, N. Y. Pinking machines and parts thereof. Serial No. 417,546; June 6. Class 23.
Marmaduke, J. M., Deepwater, Mo. Preparation used in the treatment of croup, sore throat, hoarseness, etc. Serial No. 417,810; June 6. Class 6.
Marna Manufacturing Company, St. Louis, Mo. Upholstery and rug cleaner. Serial No. 417,224; June 6. Class 4.
May Department Stores Company, The, New York, N. Y., St. Louis, Mo., Akron and Cleveland, Ohio, Baltimore, Md., Denver, Colo., and Los Angeles, Calif. Men's shirts. Serial No. 405,125; June 6. Class 39.
May Department Stores Company, The, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Pottery. Serial No. 416,572; June 6. Class 30.
May Department Stores Company, The, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Knit gowns, knit kimonos, terry cloth bibs, etc. Serial No. 417,843; June 6. Class 39.
McCarthy, Justin J., doing business as The Wilmac Laboratories, Brighton, Boston, Mass. Chemical compound. Serial No. 417,406; June 6. Class 6.
McGraw Electric Company, Chicago, Ill. Receptacles. Serial No. 411,878; June 6. Class 13.
McGraw Electric Company, Chicago, Ill. Receptacles. Serial No. 411,884; June 6. Class 13.
McLaurin Hosiery Mills, Asheboro, N. C. Men's hosiery. Serial No. 407,068; June 6. Class 39.
Merlek Co., The. (See Lee, Michael E.)
Metakioth Company, Lodi, N. J. Cotton piece goods and woven cotton fabrics. Serial No. 405,173; June 6. Class 42.
Meyer, Fred, Inc., Portland, Oreg. Hot water bottles, fountain syringes, and combination bottle and syringe. Serial No. 412,652; June 6. Class 44.
Miller Drug Co., Rochester, N. Y. Reducing preparation. Serial No. 416,736; June 6. Class 6.
Millspaugh, Giles W., Jr., Natchitoches, La. Blank record sheets. Serial No. 417,500; June 6. Class 37.
Miner, Deborah C., doing business as Associated Chemists, Portland, Oreg. Insecticides. Serial No. 406,298; June 6. Class 6.

Miss Glamour Inc., New York, N. Y. Women's and misses' costume ensemble suits, coats, suits, and dresses. Serial No. 417,371; June 6. Class 39.
Mitchellace, Incorporated, Portsmouth, Ohio. Shoe laces. Serial No. 416,811; June 6. Class 40.
Monarch Leather Company, Chicago, Ill. Leather. Serial No. 417,811; June 6. Class 1.
Moore, Samuel D., doing business as Sam Moore & Co., Cleveland, Ohio. Sound insulating and deadening materials. Serial No. 418,202; June 6. Class 12.
Murray, Wendell P., Gloversville, N. Y. Gloves. Serial No. 418,012; June 6. Class 39.
National Sanitary Health Service. (See Rhoads, James F.)
Nautical Clock Company, The. (See Hunter, Robert L.)
Naxon Telesign Corp., Chicago, Ill. Electric signs, electric sign flashing and control devices, and/or equipment for the above. Serial No. 418,205; June 6. Class 21.
Newman, Harry L., New York, N. Y. Wearing apparel. Serial No. 415,484; June 6. Class 39.
New York Girl Coat Company, New York, N. Y. Ladies' and children's coats. Serial No. 417,232; June 6. Class 39.
Novelty Games Co. (See Kessler, Louis.)
Nusholtz, Florenz, St. Louis, Mo. Wiping rags and cloths. Serial No. 417,887; June 6. Class 29.
Nutex Company, The, Philadelphia, Pa. Razors and razor blades. Serial No. 416,381; June 6. Class 23.
Old Dutch Brewers, Inc., Brooklyn, N. Y. Beers and ales. Serial No. 417,385; June 6. Class 48.
Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Silverplated hollowware. Serial No. 412,056; June 6. Class 28.
Ortega, Manuel, New York, N. Y. Syrups. Serial No. 407,739; June 6. Class 46.
Paragon Oil Co., Inc., Brooklyn, N. Y. Lubricating oils and greases. Serial No. 418,054–5; June 6. Class 15.
Pastene & Co., Inc., New York, N. Y. Canned vegetables and canned tomato paste. Serial No. 402,201; June 6. Class 46.
Pedmor Products Co. (See Schwartzenfeld, Edward.)
Penn Tobacco Company, Wilkes-Barre, Pa. Wrapping paper. Serial No. 418,209; June 6. Class 37.
Penn-O-Tex Oil Company, Minneapolis, Minn. Gasoline, lubricating oils and greases, etc. Serial No. 412,389; June 6. Class 15.
Pep Laboratories, Inc., Savannah, Ga. Medicinal preparation. Serial No. 414,466; June 6. Class 6.
Peravia S. A., Bern, Switzerland. Speedometers, fuel quantity gauges, manifold pressure gauges, etc. Serial No. 410,705; June 6. Class 26.
Peravia S. A., Bern, Switzerland. Magneto generators, including coils and switch apparatus. Serial No. 410,706; June 6. Class 21.
Perfection Manufacturing Corporation, Minneapolis, Minn. Milking machines. Serial Nos. 417,182–3; June 6. Class 23.
Perry-Morse Seed Company, Detroit, Mich. Insecticide. Serial No. 405,353; June 6. Class 6.
Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal tonic and appetite stimulant. Serial No. 418,649; June 6. Class 6.
Pharis Tire and Rubber Company, The, Newark, Ohio. Pneumatic tires and tubes. Serial No. 418,745; June 6. Class 35.
Phipps Hat Works, Incorporated, New York, N. Y. Ladies' hats. Serial No. 417,141; June 6. Class 39.
Pillsbury Flour Mills Company, Minneapolis, Minn. Prepared mixture for the making of cakes, rolls, doughnuts, etc. Serial No. 417,676; June 6. Class 46.
Pudark and Thompson, Chicago, Ill. Electric dry shavers. Serial No. 418,059; June 6. Class 23.
Quaker Hosiery Company, Inc., Philadelphia, Pa. Hosiery. Serial No. 417,654; June 6. Class 39.
Raine-Kleer Company, San Francisco, Calif. Windshield felts. Serial No. 409,820; June 6. Class 4.
Rasmusson, Marlin B., doing business as Frigid Process Company, Sacramento, Calif. Fruit ices. Serial No. 411,793; June 6. Class 46.
Red Jacket Manufacturing Company, Davenport, Iowa. Water systems, pumps, etc. Serial No. 411,038; June 6. Class 23.
Rekonso Products Incorporated, Miami, Fla. Antacid tablets. Serial No. 416,745; June 6. Class 6.
Rhoads, James F., doing business as National Sanitary Health Service, Media, Pa. Plumbing units, bathroom fixtures and equipment, etc. Serial No. 416,016; June 6. Class 13.
Roessner, William L., doing business as Y-Burn, Chicago, Ill. Portable fire extinguishers. Serial Nos. 418,061–2; June 6. Class 23.
Rossie, J., Velvet Company, The, Mystic, Conn. Pile fabrics in the piece. Serial No. 417,347; June 6. Class 42.
Ross-Perry Corp., New York, N. Y. Cough drops. Serial No. 417,474; June 6. Class 6.
Sandess Manufacturing Company, Philadelphia, Pa. Piece goods of wool. Serial No. 417,627; June 6. Class 42.
Schäfer, Friedrich, St. Gallen, Switzerland. Clips used for fastening wearing apparel. Serial No. 400,129; June 6. Class 37.

Schiff, Henry T., Chicago, Ill. Electric razors. Serial No. 416,113; June 6. Class 23.
Schoenfeld, H., & Sons, Inc., New York, N. Y. Spices. Serial No. 413,488; June 6. Class 46.
Schwartzenfeld, Edward, doing business as Pedmor Products Co., Cleveland, Ohio. Foot massage creams. Serial No. 404,492; June 6. Class 6.
Sealy, Incorporated, Pittsburgh, Pa. Mattresses, mattress foundation units, and box springs. Serial No. 418,451; June 6. Class 32.
Selsi Company, Inc., New York, N. Y. Prism binoculars and monoculars, sport glasses, etc. Serial No. 418,170; June 6. Class 26.
Sensenbrenner, A., Sons, Los Angeles, Calif. Cigars. Serial No. 418,067; June 6. Class 17.
Sheffield Gage Corporation, The, Dayton, Ohio. Gauging devices. Serial Nos. 404,269–70; June 6. Class 26.
Shepard, Omar H., doing business as Shepard Battery Co., Bridgeport, Conn. Storage batteries. Serial No. 417,237; June 6. Class 21.
Simon, Eugene, doing business as E. Simon Company, Tampa, Fla. Preparation for restoring color to gray and faded hair. Serial No. 416,271; June 6. Class 6.
Smooth-Fit Brassiere Co., Inc., New York, N. Y. Brassières, girdles, and slips. Serial Nos. 416,521–2; June 6. Class 39.
Snap-On Tools Corporation, Kenosha, Wis. Wrenches, screwdrivers, and hand turning tools. Serial No. 417,309; June 6. Class 23.
Solvay Process Company, The, New York, N. Y. Insecticides and fungicides. Serial Nos. 415,304–5; June 6. Class 6.
Standard Antiseptics Inc., New York, N. Y. Tooth powder, mouth wash, skin lotion, etc. Serial No. 416,706; June 6. Class 6.
Sterling, Edward C., doing business as Edcan Laboratories, Norwalk, Conn. Alkyl halides, phosphorous halides, carbazones, etc. Serial No. 415,965; June 6. Class 6.
Stone Straw Corporation, Washington, D. C. Fly ribbons. Serial No. 418,212; June 6. Class 50.
Superior Felt & Bedding Company, Chicago, Ill. Mattresses. Serial No. 418,902; June 6. Class 32.
Supplee-Biddle Hardware Co., Philadelphia, Pa. Clocks. Serial No. 417,853; June 6. Class 27.
Supplemental Nutritions Company, Los Angeles, Calif. Therapeutic vitamin and mineral dietary supplement. Serial No. 415,806; June 6. Class 6.
Syncro Devices, Incorporated, Detroit, Mich. Games and game apparatus. Serial No. 418,857; June 6. Class 22.
Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizers. Serial No. 418,017; June 6. Class 10.
Tabin-Picker & Company, Chicago, Ill. Rayon piece goods. Serial No. 416,347; June 6. Class 42.
Tabin-Picker & Company, Chicago, Ill. Spun rayon piece goods. Serial No. 416,487; June 6. Class 42.
Table Rock Laboratories, Inc., Greenville, S. C. Preparation for the treatment of essential hypertension, arteriosclerosis, etc. Serial No. 411,060; June 6. Class 6.
Teague-McKevett Association, Santa Paula, Calif. Fresh citrus fruit. Serial Nos. 417,716–7; June 6. Class 46.
Transit Grain & Commission Company, Fort Worth, Tex. Poultry and stock feed. Serial No. 417,895; June 6. Class 46.
Uddo, F., & Sons, New Orleans, La. Bleach, disinfectant, deodorant, and cleanser. Serial No. 418,276; June 6. Class 6.
Ulrici Medicine Company, Inc., The, New York, N. Y. Tonics and reconstituents. Serial No. 418,424; June 6. Class 6.
United States Rubber Company, New York, N. Y. Gaskets and sheet packing. Serial No. 418,377; June 6. Class 35.
Valdor, Inc., assignor to Valdor, Inc., New York, N. Y. Lipsticks. Serial No. 414,583; June 6. Class 6.
Valley Sulphur Company, Lodi, Calif. Dusting, burning, and soil sulphur. Serial No. 417,424; June 6. Class 6.
Victor Chemical Co. (See Zahlout, Victor.)
Wayne Pump Company, The, Fort Wayne, Ind. Lubricating pumps, lubricating tanks, air compressors, etc. Serial No. 410,759; June 6. Class 23.
White, Donald, Memphis, Tenn. Semi-plastic material for insertion in tire tubes. Serial No. 417,898; June 6. Class 5.
Wilmac Laboratories, The. (See McCarthy, Justin J.)
Wohl Shoe Company, St. Louis, Mo. Leather dance slippers. Serial No. 418,081; June 6. Class 39.
Wollman, B., & Bro., New York, N. Y. Fur skins. Serial No. 417,598; June 6. Class 1.
Wood, Gar, Industries, Inc., Detroit, Mich. Endless belt, portable conveyors. Serial No. 417,450; June 6. Class 23.
Wood, Gar, Industries, Inc., Marysville, Mich. Motor boats. Serial No. 416,461; June 6. Class 19.
Wright & McGill Co., Denver, Colo. Fish hooks. Serial No. 418,323; June 6. Class 22.
Xandra Limited, New York, N. Y. Liquid ammonia bath preparation. Serial No. 416,929; June 6. Class 6.
Kenda, Paul, doing business as Athletika Laboratories, San Antonio, Tex. Patent medicine. Serial No. 415,950; June 6. Class 6.
Y-Burn. (See Roessner, William L.)

Yardley of London, Inc., Union City, N. J. Astringent, astringent cerate, bleach cream, etc. Serial No. 417,992; June 6. Class 6.

Ymba Corporation. (See Aqua-Sec Corporation.)

Yorke Beverages, Inc., The, Yonkers, N. Y. Maltless beverages, syrups, extracts, etc. Serial No. 417,073; June 6. Class 45.

Yorkshire Dyeing & Proofing Co. Limited, The, Middleton, England. Piece goods. Serial No. 416,303; June 6. Class 42.

Zahlout, Victor, doing business as Victor Chemical Co., Oakland, Calif. Analgesics, anaphrodisiacs, anesthetics, etc. Serial No. 392,064; June 6. Class 6.

Zenith Radio Corporation, Chicago, Ill. Talking machine records. Serial No. 417,993; June 6. Class 36.

LIST OF REGISTRANTS OF TRADE-MARKS

Ace Pin Products Co. (See Fuscaldo, Frank.)

Aciform Sales Corporation, Chicago, Ill. Pharmaceutical preparation. 368,059–60; June 6; Serial Nos. 414,716–17; published Mar. 21, 1939. Class 6.

Adair, A. D., & McCarty Bros., Inc., Atlanta, Ga. Cotton-plant fertilizer. 125,774; renewed June 17, 1939.

Agricultural Insecticide Co. Inc., Belle Glade, Fla. Plant spray. 368,076; June 6; Serial No. 414,854; published Mar. 21, 1939. Class 6.

Alvey Manufacturing Company, now by change of name to Alvey Conveyor Manufacturing Company, St. Louis, Mo. Machinery and tools and parts thereof. 127,173; renewed Oct. 21, 1939.

American Hat Co. Inc., The, Norwalk, Conn. Men's hats. 368,182; June 6. Class 39.

American Stores Company, Philadelphia, Pa. Spaghetti and macaroni. 367,958; June 6; Serial No. 409,757; published Mar. 28, 1939. Class 46.

American Tobacco Company, The, New York, N. Y. Cigarettes. 126,239; renewed Aug. 19, 1939.

Angelo Products Co., Bridgeport, Conn. Cakes. 367,925; June 6; Serial No. 387,970; published Mar. 28, 1939. Class 46.

Appel, Lester H., doing business as Blotterless Ink Co., New York, N. Y. Writing fluids. 368,080; June 6; Serial No. 414,942; published Mar. 28, 1939. Class 11.

Aqua-Sec Corp., New York, N. Y. Chemical preparations. 368,013; June 6; Serial No. 413,770; published Mar. 28, 1939. Class 6.

Arnold, J. R., doing business as Mountain State Products Co., Wellsburg, W. Va. Ointment. 368,115; June 6; Serial Nos. 415,573–7; published Mar. 21, 1939. Class 6.

Arnold, J. R., doing business as Mountain State Products Co., Wellsburg, W. Va. Medicinal preparation. 368,116; June 6; Serial No. 415,576; published Mar. 21, 1939. Class 6.

Arnold, J. R., doing business as Mountain State Products Co., Wellsburg, W. Va. Jelly that is antiseptic to nasal cavities and membranes. 368,117; June 6; Serial No. 415,577; published Mar. 21, 1939. Class 6.

Arrowhead Mills, Inc., Fulton, N. Y. Writing, newsprint, and wrapping paper. 126,632; renewed Sept. 30, 1939.

Associated Biscuit Co., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y. Bakery goods. 367,976; June 6; Serial No. 411,564; published Mar. 28, 1939. Class 46.

Associated Biscuit Co., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y. Crackers and wafers. 367,985; June 6; Serial No. 412,281; published Mar. 28, 1939. Class 46.

Birmala Laboratories, Birmingham, Ala. Pharmaceutical preparation. 367,957; June 6; Serial No. 408,747; published Mar. 28, 1939. Class 6.

Bleecker Shoe Co., Inc., New York, N. Y. Shoes. 368,177; June 6. Class 39.

Blotterless Ink Co. (See Appel, Lester H.)

Bonwit Teller, Inc., New York, N. Y. Blouses, sweaters, dresses, etc. 368,071; June 6; Serial No. 414,812; published Mar. 28, 1939. Class 39.

Borgfeldt, Geo., Corporation, New York, N. Y. Dolls. 368,149; June 6; Serial No. 416,245; published Mar. 28, 1939. Class 22.

Bowes "Seal-Fast" Corporation, Indianapolis, Ind. Battery cables. 368,179; June 6. Class 21.

Broom and Newman, New York, N. Y. Pajamas and polo shirts. 368,155; June 6. Class 39.

Bulova Watch Company, Inc., New York, N. Y. Watches. 367,988; June 6; Serial No. 412,589; published Jan. 10, 1939. Class 27.

Burton-Levin Foundation, Inc., The, Baltimore, Md. Antidigestant preparation. 368,044; June 6; Serial No. 414,484; published Mar. 28, 1939. Class 6.

Bustelo Coffee Roasting Co., Inc., New York, N. Y. Coffee and tea. 368,108; June 6; Serial No. 415,495; published Mar. 28, 1939. Class 46.

Butler Brothers, Chicago, Ill. Piece goods. 368,012; June 6; Serial No. 413,702; published Mar. 28, 1939. Class 42.

California Shoes, Ltd., Los Angeles, Calif. Men's shoes. 367,962; June 6; Serial No. 410,356; published Mar. 28, 1939. Class 39.

California Shoes, Ltd., Los Angeles, Calif. Women's and misses' shoes. 367,963; June 6; Serial No. 410,357; published Mar. 28, 1939. Class 39.

Cambridge Rubber Company, Cambridge, Mass. Shoes, soles, and heels. 368,002; June 6; Serial No. 413,472; published Mar. 14, 1939. Class 39.

Cape Cod Hand Weavers. (See Nollman, Hyman.)

Carey Salt Co., The, Hutchinson, Kans. Salt. 368,109; June 6; Serial No. 415,498; published Mar. 28, 1939. Class 46.

Carlyle. (See Charm Products Inc.)

Castilian Products Corp., Los Angeles, Calif. Cologne, skin lotion, perfume, etc. 368,120; June 6; Serial No. 415,633; published Mar. 21, 1939. Class 6.

Castilian Products Corp., Los Angeles, Calif. Cleansing cream, all purpose cream, skin lotion, etc. 368,121; June 6; Serial No. 415,635; published Mar. 21, 1939. Class 6.

Celo Company of America, Tampa, Fla. Beverages, and syrups, extracts, and flavors used in making the same. 367,944; June 6; Serial No. 403,812; published Apr. 26, 1938. Class 45.

Celo Company of America, Tampa, Fla. Nonalcoholic, noncereal, maltless beverages, and syrups, extracts, etc. 368,158; June 6. Class 45.

Ceramic Products Company, Kewaunee, Wis. Ceramic ware. 367,947; June 6; Serial No. 405,059; published Mar. 28, 1939. Class 13.

Champion Glove Manufacturing Co., Boston, Mass. Hosiery. 368,191; June 6. Class 39.

Chaousy, George J., doing business as Sfregos Products Company, Long Island City, N. Y. Botanic-laxative tonic. 368,040; June 6; Serial No. 414,325; published Mar. 28, 1939. Class 6.

Charm Products Inc., also doing business as Carlyle, Los Angeles, Calif. Nail polish and enamel. 368,014; June 6; Serial No. 413,816; published Mar. 21, 1939. Class 6.

Chase, Archer, & Company, Tacoma, Wash. Seasoning or flavoring. 368,024; June 6; Serial No. 413,965; published Mar. 28, 1939. Class 46.

Cheney Brothers, South Manchester, to Cheney Brothers, Manchester, Conn. Fabrics of silk and silk mixtures. 125,786; renewed June 17, 1939.

Cherry-Burrell Corporation, Chicago, Ill. Pumps. 367,996; June 6; Serial No. 412,944; published Mar. 28, 1939. Class 23.

Cherry Specialty Company, Chicago, Ill. Chocolate coated candies, a confectionery. 367,989; June 6; Serial No. 412,629; published Mar. 28, 1939. Class 46.

Chevette, Inc., New York, N. Y. Girdles, foundation garments, brassières, etc. 367,959; June 6; Serial No. 409,805; published Mar. 14, 1939. Class 39.

Chick Laboratories. (See Mathews, Herbert D.)

Chrysler Corporation, Highland Park, Mich. Lubricant impregnated bearings. 368,053; June 6; Serial No. 414,591; published Mar. 28, 1939. Class 23.

Clark, C. F., and Son, Sunderland, Mass. Fresh vegetables, fresh deciduous and citrus fruits, etc. 368,072; June 6; Serial No. 414,821; published Mar. 28, 1939. Class 46.

Clermont Cravat Company, Inc., New York, N. Y. Neckties, cravats, and scarfs. 368,193; June 6. Class 39.

Cohn, H. C., & Co., Rochester, N. Y. Neckties. 368,187–90; June 6. Class 39.

Columbia Mills, Inc., The, New York, N. Y. Mounted shades, window shades, and shade rollers. 368,139–40; June 6; Serial Nos. 416,133–4; published Mar. 28, 1939. Class 32.

Comfort Slipper Corporation, Boston, Mass. Shoes and slippers. 368,159; June 6. Class 39.

Conrad Company, The, Atlanta, Ga. Stomachic and alterative preparation. 368,077; June 6; Serial No. 414,860; published Mar. 21, 1939. Class 6.

Conway, John J., doing business as The Conway Enterprises, Ansonia, Conn. Toy. 368,141; June 6; Serial No. 416,136; published Mar. 28, 1939. Class 22.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 368,081; June 6; Serial No. 414,945; published Mar. 21, 1939. Class 6.

Cromwell Paper Company, The, Chicago, Ill. Fabric ruching. 367,981; June 6; Serial No. 411,944; published Mar. 14, 1939. Class 40.

Cuetera, Salvador, Boston, Mass. Shoes and slippers. 367,949; June 6; Serial No. 405,767; published Aug. 23, 1938. Class 39.

Cumberland Pharmacal Company, Vineland, N. J. Cough drops, cough syrup, etc. 367,942; June 6; Serial No. 402,903; published Mar. 22, 1938. Class 6.

Curtis-Stephens-Emery Co., Reading, Pa. Leather shoes. 367,926; June 6; Serial No. 393,024; published July 27, 1937. Class 39.

Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Inner tubes, packings. 367,932; June 6; Serial No. 399,603; published Jan. 24, 1939. Class 35.

Daley, Frank, doing business as Pony Express Ice Cream Co., Beverly, Mass. Ice cream. 367,955; June 6; Serial No. 408,341; published Mar. 28, 1939. Class 46.

Davis, Frank E., Company, now, by change of name, to Frank E. Davis Fish Company, Gloucester, Mass. Foods. 125,625; renewed June 3, 1939.

Davis & Geck, Inc., Brooklyn, N. Y. Surgical ligatures and sutures. 368,122; June 6; Serial No. 415,637; published Mar. 28, 1939. Class 44.

De Long Hook and Eye Company, The, Philadelphia, Pa. Safety pins and snap fasteners. 368,064–5; June 6; Serial Nos. 414,773–4; published Mar. 28, 1939. Class 40.

Dental Manufacturing Company Limited, The, London, England. Artificial teeth. 368,006; June 6; Serial No. 413,544; published Mar. 28, 1939. Class 44.

Destileria Serralles, Inc., Ponce, P. R. Rum. 367,975; June 6; Serial No. 411,522; published Mar. 28, 1939. Class 49.

Dethol Manufacturing Company, Inc. (See Fawland Company, Inc., assignor.)

Diamond Shoe Company, New York, N. Y. Women's shoes. 367,978; June 6; Serial No. 411,772; published Jan. 3, 1939. Class 39.

Dow Chemical Company, The, Midland, Mich. Fluid preparations comprising ethyl cellulose. 368,135; June 6; Serial No. 415,980; published Mar. 28, 1939. Class 6.

Dukat Products Company, Inc., Hamtramck, Mich. Canned fruits and vegetables. 367,954; June 6; Serial No. 407,539; published Mar. 28, 1939. Class 46.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dolls, rattles, and tops. 368,147; June 6; Serial No. 416,230; published Mar. 28, 1939. Class 22.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Picture frames and window shades. 368,148; June 6; Serial No. 416,235; published Mar. 28, 1939. Class 32.

Dura Electric Lamp Co. Inc., Newark, N. J. Electric light bulbs. 368,045; June 6; Serial No. 414,488; published Mar. 28, 1939. Class 21.

Dutch Novelty Shops. (See Van Tongeren, Chester.)

Earlrich & Company, Cedarville, Ohio. Herb tonic tablets, and ointments. 367,964; June 6; Serial No. 410,459; published Mar. 28, 1939. Class 6.

Eastman Kodak Company, Rochester, N. Y. Photographic objectives, lenses, and diffusion disks, etc. 368,031; June 6; Serial No. 414,098; published Mar. 28, 1939. Class 26.

Edison, Thomas A., Incorporated, West Orange, N. J. Electronic and audio apparatus and devices. 368,005; June 6; Serial No. 413,514; published Mar. 28, 1939. Class 21.

Elgin Laboratories, Inc., Chicago, Ill. Electrically operated shaving devices and hair clippers. 368,178; June 6. Class 23.

Epstein Underwear Co., New York, N. Y. Slips, nightgowns, pajamas, etc. 367,936; June 6; Serial No. 401,052; published Mar. 14, 1939. Class 39.

Fawland Company, Inc., Richmond, Va., assignor, by mesne assignments, to Dethol Manufacturing Company, Inc., Washington, D. C. Insecticides, disinfectants, and germicides. 127,229; renewed Oct. 28, 1939.

Felsenfeld, Jack J., Brooklyn, to Jack J. Felsenfeld, New York, N. Y. Precious and imitation precious stones. 127,040; renewed Oct. 21, 1939.

Ferro-Alloys Incorporated, Pittsburgh, Pa. Compositions containing barium compounds. 368,097; June 6; Serial No. 415,332; published Mar. 28, 1939. Class 6.

Fineform Brassiere Co., Inc., New York, N. Y. Brassières, girdles, corsets, etc. 368,003; June 6; Serial No. 413,475; published Mar. 14, 1939. Class 39.

Fishman, Ben, doing business as Three Fold Products Co., Louisville, Ky. Preparation for use as a scalp conditioner, etc. 368,035; June 6; Serial No. 414,145; published Mar. 28, 1939. Class 6.

Footrue Shoe Company, Brooklyn, N. Y. Shoes and overshoes. 368,007; June 6; Serial No. 413,547; published Mar. 14, 1939. Class 39.

Ford Motor Company, Highland Park, assignor to Ford Motor Company, Dearborn, Mich. Rubber tires. 125,702; renewed June 3, 1939.

Frances Emblems, Inc., New York, N. Y. Applique emblems. 367,983; June 6; Serial No. 412,027; published Mar. 28, 1939. Class 40.

Fraser, Russell, Wire Company, New York, N. Y., now by change of name to Fraser Manufacturing Co., Inc. Gimp. 368,028; June 6; Serial No. 414,045; published Mar. 14, 1939. Class 40.

Freiberg, Stanley B., Cincinnati, Ohio. Record cards. 368,125; June 6; Serial No. 415,711; published Mar. 28, 1939. Class 37.

French, R. T., Company, The. (See Kellogg, James C., assignor.)

French, Shriner & Urner Manufacturing Co., Boston, Mass. Boots and shoes. 368,051; June 6; Serial No. 414,560; published Mar. 28, 1939. Class 39.

French, Thomas, & Sons, Ltd., New York, N. Y. Ladder webbing. 367,979; June 6; Serial No. 411,774; published Mar. 21, 1939. Class 40.

Freydberg Bros., Inc., Stamford, Conn. Textile bindings. 368,018; June 6; Serial No. 413,904; published Mar. 14, 1939. Class 40.

Fuscaldo, Frank, doing business as Ace Pin Products Co., Chicago, Ill. Hair pins, hair curlers and clips, and hair pin clips. 367,967; June 6; Serial No. 410,731; published Mar. 14, 1939. Class 40.

Galloway Company, Inc., The, Waterloo, Iowa. Centrifugal cream separators. 368,029; June 6; Serial No. 414,066; published Mar. 28, 1939. Class 23.

Gamble Stores Incorporated, Minneapolis, Minn. Spark plugs. 368,098; June 6; Serial No. 415,333; published Mar. 28, 1939. Class 21.

Garvenswerke Maschinen-Pumpen-und Waagenfabrik W. Garvens. (See Gotzl, Alfred.)

Gem-Dandy Garter Co., Madison, N. C. Girdles. 368,151; June 6. Class 39.

General Chemical Company, New York, N. Y. Sulphur and sulphur containing products. 367,951; June 6; Serial No. 406,584; published Mar. 28, 1939. Class 6.

General Chemical Company, New York, N. Y. Cleaning preparations. 367,952; June 6; Serial No. 406,638; published Mar. 28, 1939. Class 4.

General Mills, Inc., Minneapolis, Minn. Grocery products. 367,953; June 6; Serial No. 406,801; published Mar. 28, 1939. Class 46.

General Shoe Corporation, Nashville, Tenn. Boots, shoes, and slippers. 368,079; June 6; Serial No. 414,917; published Mar. 28, 1939. Class 39.

George Glove Co., The. (See Schultz, George.)

Gimbel Brothers, Inc., New York, N. Y. Stuffed toys, tennis racquets, tennis balls, etc. 368,032; June 6; Serial No. 414,103; published Mar. 28, 1939. Class 22.

Gits Bros. Mfg. Co., Chicago, Ill. Oil cups, seals, and lubricators. 368,184; June 6. Class 23.

Glidden Company, The, Cleveland, Ohio. Soybean flour. 367,933; June 6; Serial No. 399,060; published Mar. 28, 1939. Class 46.

Goffinet, Clarence V., doing business as Standard Vanilla Company, Los Angeles, Calif. Flavoring. 368,105; June 6; Serial No. 415,475; published Mar. 28, 1939. Class 46.

Goldenberg's, to The Goldenberg Co., Washington, D. C., successor. Coats, vests, trousers. 127,278; renewed Nov. 4, 1939.

Gotzl, Alfred, doing business as Garvenswerke Maschinen-Pumpen-und Waagenfabrik W. Garvens, Vienna, Austria. Electric motors. 367,928; June 6; Serial No. 397,229; published Mar. 28, 1939. Class 21.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Hose. 368,137; June 6; Serial No. 416,098; published Mar. 28, 1939. Class 35.

Goodyear Tire & Rubber Company, Akron, Ohio. Belts and belting. 368,142; June 6; Serial No. 416,139; published Mar. 28, 1939. Class 35.

Gordhamer, Harry A., Minneapolis, Minn. Creamery-butter. 125,336; renewed May 13, 1939.

Grah & Plümacher. (See Plümacher, Hugo.)

Granite Fabrics, Inc., New York, N. Y. Rayon piece goods. 368,170; June 6. Class 42.

Gray, Dorothy, Salons, Bloomfield, N. J. Perfume. 368,118; June 6; Serial No. 415,585; published Mar. 28, 1939. Class 6.

Green & Green Inc., Houston, Tex. Beverages and syrups, concentrates, and extracts for making the same. 367,980; June 6; Serial No. 411,862; published Mar. 28, 1939. Class 45.

Gumakers of America, Inc., Clifton Heights, Pa. Chewing gum. 367,984; June 6; Serial No. 412,182; published Mar. 28, 1939. Class 46.

Gum Incorporated, Philadelphia, Pa. Chewing gum. 368,114; June 6; Serial No. 415,552; published Mar. 28, 1939. Class 46.

Gunterman, John S., Phoenix, Ariz. Acid resisting solution. 367,968; June 6; Serial No. 410,733; published Mar. 21, 1939. Class 6.

Haas, Baruch & Co., Los Angeles, Calif. Foods. 125,703; renewed June 3, 1939.

Hafner, Victor L. S., New York, N. Y. Sensitized motion picture film. 367,974; June 6; Serial No. 411,481; published Mar. 28, 1939. Class 26.

Hardesty, Kile C., Fort Wayne, Ind. Cough syrups. 368,021; June 6; Serial No. 413,944; published Mar. 21, 1939. Class 6.

Harmon Mute Co., Chicago, Ill. Musical mute. 368,089; June 6; Serial No. 415,118; published Mar. 28, 1939. Class 36.

Harry's Shoe Store, Inc., New Haven, Conn. Shoes, boots, overshoes, etc. 368,154; June 6. Class 39.

Hat Corporation of America, Norwalk, Conn. Ladies' hats. 368,169; June 6. Class 39.

Hauschild, Frederick J., doing business as F. J. Hauschild Manufacturing Company, Oneonta, N. Y. Automobile body and fender straightening tool. 368,022; June 6; Serial No. 413,945; published Mar. 28, 1939. Class 23.

Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned pineapple and pineapple juice. 368,096; June 6; Serial No. 415,289; published Mar. 28, 1939. Class 46.

Hellman, Isaac H., doing business as Hellman Laboratory, St. Louis, Mo. Perfume. 368,110; June 6; Serial No. 415,510; published Mar. 21, 1939. Class 6.

Hellman, Isaac H., doing business as Hellman Laboratory, St. Louis, Mo. Cosmetics and toilet preparations. 368,111; June 6; Serial No. 415,511; published Mar. 21, 1939. Class 6.

Herrmann Handkerchief Company, Inc., The, New York, N. Y. Handkerchiefs and scarfs. 368,160; June 6. Class 39.

Homasote Company, Inc., Fernwood, N. J. Drip pans, baffles, and shaped elements used in refrigerators. 368,132; June 6; Serial No. 415,891; published Mar. 28, 1939. Class 31.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, skin lotion, etc. 368,056; June 6; Serial No. 414,660; published Mar. 28, 1939. Class 6.

House of Westmore Inc., New York, N. Y. Face powder, cold cream, vanishing cream, etc. 368,025; June 6; Serial No. 413,990; published Mar. 21, 1939. Class 6.

Howard Bros. Chemical Co., Buffalo, N. Y. Toilet cream. 125,451; renewed May 20, 1939.

Hunter-Northcott Chemical Laboratories, Los Angeles and Hollywood, Calif. Solvents. 368,084; June 6; Serial No. 414,997; published Mar. 21, 1939. Class 6.

Ideal Fastener Corporation, New York, N. Y. Slide fasteners. 368,066; June 6; Serial No. 414,783; published Mar. 28, 1939. Class 13.

Ideal Linen Mesh Company, Poughkeepsie, N. Y. Wearing apparel. 367,986; June 6; Serial No. 412,377; published Mar. 14, 1939. Class 39.

Industrial Rayon Corporation, Cleveland, Ohio. Fabrics of tubular construction. 367,960; June 6; Serial No. 410,139; published Mar. 28, 1939. Class 42.

Inlaid Optical Corporation, Providence, R. I. Sunglasses. 368,036; June 6; Serial No. 414,152; published Mar. 28, 1939. Class 26.

International Affiliated Corporation, New York, N. Y. Medicines and pharmaceutical preparations. 368,061; June 6; Serial No. 414,739; published Mar. 28, 1939. Class 6.

International Braid Company, Providence, R. I. Venetian blind tape and cord and awning braid, etc. 368,162; June 6. Class 40.

Interstate Cotton Oil Refining Co., Sherman, Tex. Wheat flour, canned vegetables and fruits, and fruit preserves. 367,965; June 6; Serial No. 410,588; published Mar. 28, 1939. Class 46.

Ireland Bros., Johnstown, N. Y. Ladies' gloves. 368,047; June 6; Serial No. 414,528; published Mar. 28, 1939. Class 39.

Jaquet, Incorporated, New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 368,136; June 6; Serial No. 416,066; published Mar. 28, 1939. Class 6.

Jones, G. H., & Co., Inc., Brawley, Calif. Fresh vegetables and cantaloupes. 368,094; June 6; Serial No. 415,165; published Mar. 28, 1939. Class 46.

Kaplan, Samuel H., New York, N. Y. Shoes. 368,194; June 6. Class 39.

Kelley Plasterboard Company, Inc., Delawanna, N. J., now by merger and consolidation Newark Plaster Company. Gypsum wallboard, fiber jointing tape and joint cement for wallboard, etc. 368,181; June 6. Class 12.

Kellogg, James C., New York, assignor, by mesne assignments, to R. T. French Company, Rochester, N. Y. Laundry bluing. 125,228; renewed Apr. 22, 1939.

Kewanee Liquids Manufacturing Co., Kewanee, Ill. Liquid hog tonic. 368,090; June 6; Serial No. 415,126; published Mar. 28, 1939. Class 6.

Krieg-Fink, Joseph, Company, Morrisville, Pa. Cordials. 368,023; June 6; Serial No. 413,951; published Mar. 28, 1939. Class 49.

Kro-No Liniment Co., Jersey City, N. J. Liniment. 368,058; June 6; Serial No. 414,701; published Mar. 28, 1939. Class 6.

Lactona, Incorporated, St. Paul, Minn. Dentifrice. 368,085; June 6; Serial No. 415,043; published Mar. 28, 1939. Class 6.

Lalla, John F., Company, Chicago, Ill. Canned fruits, vegetables, and salmon. 127,075; renewed Oct. 21, 1939.

Latz, Harry, Service, New York, N. Y. Fans. 368,166; June 6. Class 40.

Lawrence, Vichal W., Sr., doing business as Optoseal Company, Danville, Ky. Adhesive cements. 368,099; June 6; Serial No. 415,340; published Mar. 28, 1939. Class 5.

Lee Paper Company, Vicksburg, Mich. Bond paper. 368,172; June 6. Class 37.

LeGear, Dr. L. D., St. Louis, Mo. Preparations for ailments of horses, cattle, sheep, etc. 126,444; renewed Aug. 26, 1939.

Lentheric, Incorporated, New York, N. Y. Perfume, toilet water, face powder, etc. 367,937; June 6; Serial No. 401,803; published Mar. 28, 1939. Class 6.

Lentheric, Incorporated, New York, N. Y. Perfumes and cosmetic creams. 368,067; June 6; Serial No. 414,787; published Feb. 21, 1939. Class 6.

Levy & Baumann, New York, N. Y. Lambskin, suede, and leather. 368,161; June 6. Class 1.

Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Cold creams, cleansing creams, obesity creams, etc. 368,126; June 6; Serial No. 415,719; published Mar. 21, 1939. Class 6.

Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Cold creams, cleansing creams, obesity creams, etc. 368,127; June 6; Serial No. 415,721; published Mar. 21, 1939. Class 6.

Linette Co., The. (See Lubow, Hyman.)

Little, A. P., Inc., Rochester, N. Y. Typewriter ribbons, carbon papers. 368,057; June 6; Serial No. 414,664; published Mar. 28, 1939. Class 11.

Logan Health Garment Co., Chicago, Ill. Corsets and girdles. 368,163; June 6. Class 39.

Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Skirts, waists, suits, etc. 368,046; June 6; Serial No. 414,501; published Mar. 21, 1939. Class 39.

Losen, W. The, Inc., New York, N. Y. Necktie-silk, rayon and cotton piece goods. 368,043; June 6; Serial No. 414,453; published Mar. 28, 1939. Class 42.

Lubow, Hyman, doing business as The Linette Co., New York, N. Y. Cotton canvas piece goods. 368,106; June 6; Serial No. 415,483; published Mar. 28, 1939. Class 42.

Lucidol Corporation, Buffalo, N. Y. Organic peroxides. 368,133; June 6; Serial No. 415,905; published Mar. 28, 1939. Class 6.

Macy, R. H., & Co., Inc., New York, N. Y. Cosmetic oils, toilet lotions, colognes, etc. 368,026; June 6; Serial No. 414,035; published Mar. 21, 1939. Class 6.

Maid O'Troy, Inc., New York, N. Y. Slips, panties, nightgowns, etc. 368,054; June 6; Serial No. 414,614; published Mar. 28, 1939. Class 39.

Marimac Novelty Co., New York, N. Y. Crepe paper flowers stiffened with self hardened plastics. 368,068; July 6; Serial No. 414,788; published Mar. 28, 1939. Class 40.

Maritime Trading Corporation, New York, N. Y., now, by change of name, to Maritime Milling Company, Inc., Buffalo, N. Y. Stock food. 127,286; renewed Nov. 4, 1939.

Marshall-Wells Company, Duluth, Minn. Air moisteners and conditioners. 368,042; June 6; Serial No. 414,358; published Mar. 28, 1939. Class 34.

Match King, Inc., Chicago, Ill. Electric razors. 368,167; June 6. Class 23.

Mathews, Herbert D., doing business as Chick Laboratories, Bryan, Ohio. Cleanser. 368,001; June 6; Serial No. 413,357; published Mar. 28, 1939. Class 4.

Mathieson Alkali Works (Inc.), The, New York, N. Y. Bactericide, germicide, deodorant, etc. 367,977; June 6; Serial No. 411,745; published Dec. 27, 1938. Class 6.

May Department Stores Co., The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Denver, Colo.; Los Angeles, Calif.; and St. Louis, Mo. Dresses, coats, sweaters, etc. 368,173; June 6. Class 39.

McKay, W. E., & Co., New York, N. Y. Cotton and rayon piece goods. 368,069; June 6; Serial No. 414,792; published Mar. 28, 1939. Class 42.

McLean, W. Fred, Bay Shore, N. Y. Garden rakes. 367,969; June 6; Serial No. 410,796; published Mar. 28, 1939. Class 23.

McMillan & Harrison Fertilizer Co., Mobile, Ala. Fertilizer. 368,087; June 6; Serial No. 415,085; published Mar. 28, 1939. Class 10.

Mears, Fred W., Heel Company, Inc., Boston, Mass. Wood heels. 368,152; June 6. Class 39.

Meck, Walter F., Schuylkill Haven, Pa. Diapers. 368,091; June 6; Serial No. 415,131; published Mar. 28, 1939. Class 39.

Medart Company, The, St. Louis, Mo. Drive belts. 368,143; June 6; Serial No. 416,152; published Mar. 28, 1939. Class 35.

Mennen Company, The, Newark, N. J. Medicated powder. 368,070; June 6; Serial No. 414,793; published Mar. 21, 1939. Class 6.

Mer-Q-Ree, Incorporated, Bethesda, Md. Fungicides. 368,062; June 6; Serial No. 414,748; published Mar. 28, 1939. Class 6.

Merry Treat Foods Co. (See Miller, George P.)

Meyer, Fred, Inc., Portland, Oreg. Hair brushes, tooth brushes, and brooms. 368,175; June 6. Class 29.

Meyer, Fred, Inc., Portland, Oreg. Hot water bottles, fountain syringes, and combinations. 368,176; June 6. Class 44.

Miller, George P., doing business as Merry Treat Foods Co., Naperville, Ill. Food products. 367,923; June 6; Serial No. 375,946; published Mar. 28, 1939. Class 46.

Miller, Gray, Jr., Westmount, Quebec, Canada. Eye shields. 367,990; June 6; Serial No. 412,714; published Mar. 28, 1939. Class 26.

Monument Bottling Co., Inc., Indianapolis, Ind. Beverages. 368,048; June 6; Serial No. 414,529; published Mar. 28, 1939. Class 45.

Morse, Leopold, Company, Boston, Mass. Topcoats. 368,000; June 6; Serial No. 413,350; published Mar. 14, 1939. Class 39.

Mountain State Products Co. (See Arnold, J. R.)

Muirhead, Charles, & Son, Ltd., Edinburgh, Scotland. Whisky. 367,941; June 6; Serial No. 402,825; published May 31, 1938. Class 49.

Mutual Citrus Products Co., Inc., Anaheim, Calif. Fresh citrus fruits. 367,961; June 6; Serial No. 410,300; published Nov. 1, 1938. Class 46.

Neumann-Endler Incorporated, Danbury, Conn. Wool hats and hat bodies. 368,088; June 6; Serial No. 415,087; published Mar. 28, 1939. Class 39.

Newark Plaster Company. (See Kelley Plasterboard Company, Inc.)

Nicholas, Horace J., Perry, Maine. Liniment. 368,027; June 6; Serial No. 414,038; published Mar. 28, 1939. Class 6.

Niles-Bement-Pond Company. (See Pratt & Whitney Company, assignor.)

No-D-Ka Company, The. (See Reid, Marion V.)

Nollman, Hyman, doing business as Cape Cod Hand Weavers, Boston, Mass. Neckties, cravats, shawls, etc. 368,185; June 6. Class 39.

Oakley Chemical Company, assignor to Oakite Products, Inc., New York, N. Y. Granulated chemical cleansing compound. 127,103; renewed Oct. 21, 1939.

Onyx Oil & Chemical Company, Jersey City, N. J. Chemical substance. 368,128; June 6; Serial No. 415,791; published Mar. 28, 1939. Class 6.

Optoseal Company. (See Lawrence, Vichal W., Sr.)

Pacific Mercantile Company, Ltd., Honolulu, Hawaii. Patent medicine. 367,956; June 6; Serial No. 408,473; published Mar. 28, 1939. Class 6.

Paine, L. Chenault, doing business as Patriot Products, Ltd., Los Angeles, Calif. Electrical toasters, waffle irons, egg boilers, etc. 368,100; June 6; Serial No. 415,344; published Mar. 28, 1939. Class 21.

Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,991; June 6; Serial No. 412,717; published Mar. 14, 1939. Class 39.

Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,992; June 6; Serial No. 412,718; published Mar. 14, 1939. Class 39.

Palter, Dan, New York, N. Y. Boots, shoes, and slippers. 367,993; June 6; Serial No. 412,724; Mar. 14, 1939. Class 39.

Parfums Charbert Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 368,019; June 6; Serial No. 413,910; published Mar. 28, 1939. Class 6.

Patchogue-Plymouth Mills Corporation, New York, N. Y. Lace curtains. 368,112; June 6; Serial No. 415,520; published Mar. 28, 1939. Class 42.

Patent Fuels & Color Corporation, Cincinnati, Ohio. Chemical addition agents for fuels and lubricating oils. 367,966; June 6; Serial No. 410,608; published Mar. 28, 1939. Class 6.

Patriot Products, Ltd. (See Paine, L. Chenault.)

Penick & Ford, Ltd. Incorporated, New York, N. Y. Adhesive gums. 367,997; June 6; Serial No. 412,982; published Mar. 28, 1939. Class 5.

Pepperell Manufacturing Company, Boston, Mass. Sheets and pillow cases. 368,113; June 6; Serial No. 415,521; published Mar. 28, 1939. Class 42.

Perry, Leo, doing business as Whitewater Garment Company, Whitewater, Wis. Bandana handkerchiefs 368,171; June 6. Class 39.

Perx Company, Chicago, Ill. Tooth paste. 368,101; June 6; Serial No. 415,346; published Mar. 28, 1939. Class 6.

Pet Kitchens, Inc., Cold Spring and New York, N. Y. Dog food. 368,038; June 6; Serial No. 414,271; published Mar. 28, 1939. Class 46.

Philadelphia Metal Works Incorporated, Philadelphia, Pa. Egg-grading and sorting machines. 367,938; June 6; Serial No. 402,099; published Mar. 28, 1939. Class 23.

Phillips-Joffrion, New Orleans, La. Medical therapeutic agent. 368,008; June 6; Serial No. 413,560; published Mar. 21, 1939. Class 6.

Plümacher, Hugo, doing business as Grah & Plümacher, Solingen-Weyer, Germany. Scissors. 367,945; June 6; Serial No. 404,849; published Mar. 28, 1939. Class 23.

Pointer, Robert W., doing business as Pointer-Willamette Trailer Equipment Co., Portland, Oreg. Structural parts for trailers. 367,929; June 6; Serial No. 397,952; published Jan. 11, 1938. Class 19.

Ponder, Max L., Aberdeen, N. C. Washing fluid. 367,982; June 6; Serial No. 411,967; published Mar. 28, 1939. Class 6.

Pony Boy Express Ice Cream Co. (See Daley, Frank.)

Pratt, Wm. E., Mfg. Co., Joliet, Ill. Hog-rings and pig-rings. 367,940; June 6; Serial No. 402,276; published Mar. 28, 1939. Class 13.

Pratt & Whitney Company, New York, N. Y., assignor to Niles-Bement-Pond Company, Hartford, Conn. Metal and wood working machines, parts thereof, and accessories therefor. 125,835; renewed June 17, 1939.

Price, Oscar R., doing business as Varitex Company, New York, N. Y. Straight and safety pins and snap fasteners. 367,994; June 6; Serial No. 412,731; published Mar. 14, 1939. Class 40.

Raphael, Edwin, Co. Inc., Chicago, Ill. Drapery and upholstery fabrics. 368,020; June 6; Serial No. 413,911; published Mar. 28, 1939. Class 42.

Rare Chemicals, Inc., Nepara Park, N. Y. Vitamin B-1 and iron, a tonic. 368,129; June 6; Serial No. 415,860; published Mar. 28, 1939. Class 6.

Redlands Mutual Orange Company, to Redlands Mutual Orange Association, Redlands, Calif., successor. Fresh oranges. 125,940; renewed July 15, 1939.

Redzisz, Andrew, Jersey City, N. J. Liniment. 368,130; June 6; Serial No. 415,861; published Mar. 28, 1939. Class 6.

Reid, Marion V., doing business as The No-D-Ka Company, West Springfield, Mass. Dentifrices. 367,950; June 6; Serial No. 406,100; published Mar. 28, 1939. Class 6.

Remington Rand Inc., Buffalo, N. Y. Electric dry shavers. 368,174; June 6. Class 23.

Riemer, Walter A., doing business as Riemer's Salve Co., Muskegon, Mich. Salve for treating athlete's foot. 368,015; June 6; Serial No. 413,879; published Mar. 28, 1939. Class 6.

Rilling-Arnao Company, Minneapolis, Minn. Chemical exothermic heating elements. 367,939; June 6; Serial No. 402,142; published Mar. 28, 1939. Class 6.

Rinshed-Mason Company, Detroit, Mich. Undercoating or surface primer. 368,037; June 6; Serial No. 414,239; published Mar. 28, 1939. Class 16.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Cotton piece goods for suitings. 368,107; June 6; Serial No. 415,486; published Mar. 28, 1939. Class 42.

Robins, A. H., Company, Inc., Richmond, Va. Laxative preparation. 368,131; June 6; Serial No. 415,862; published Mar. 28, 1939. Class 6.

Roche-Organon, Inc., Nutley, N. J. Medicinal preparation. 368,103; June 6; Serial No. 415,414; published Mar. 28, 1939. Class 6.

Rogers Peet Company, New York, N. Y. Leather shoes for men. 126,893; renewed Oct. 7, 1939.

Röhm & Haas Company, Philadelphia, Pa. Synthetic resinous materials. 367,998; June 6; Serial No. 413,144; published Jan. 17, 1939. Class 1.

Röhm & Haas Company, Philadelphia, Pa. Enzyme preparation. 368,123; June 6; Serial No. 415,666; published Mar. 28, 1939. Class 6.

Roth, Louis, & Co. Inc., Los Angeles, Calif. Outer clothing. 367,995; June 6; Serial No. 412,926; published Mar. 28, 1939. Class 39.

Rule-Jayton Cotton Oil Co., Stamford, Tex. Cottonseed cake and meal. 368,073; June 6; Serial No. 414,835; published Mar. 28, 1939. Class 46.

S & M Lamp Co., Los Angeles, Calif. Electric flood lights. 367,943; June 6; Serial No. 403,332; published Mar. 28, 1939. Class 21.

Saks & Company, New York, N. Y. Women's and misses' shoes. 367,987; June 6; Serial No. 412,464; published Mar. 14, 1939. Class 39.

Saks & Company, New York, N. Y. Women's and misses' shoes. 367,999; June 6; Serial No. 413,277; published Mar. 28, 1939. Class 39.

Saks & Company, New York, N. Y. Women's and misses' shoes. 368,052; June 6; Serial No. 414,578; published Mar. 28, 1939. Class 39.

San Antonio Drug Co., San Antonio, Tex., and New York, N. Y., to San Antonio Drug Company, San Antonio, Tex. Liniments, cordial for use in treatment of irregularities of the bowels, etc. 127,127; renewed Oct. 21, 1939.

Sandel Manufacturing Co., Chicago, Ill. Electric portable lamps. 368,153; June 6. Class 21.

Schildmeier, Henry C., doing business as H. C. Schildmeier Company, Indianapolis, Ind. Machines used for determining and correcting the static or dynamic balance, or both, of automobile wheels, etc. 368,030; June 6; Serial No. 414,082; published Mar. 28, 1939. Class 26.

Schmieg Sheet Metal Works, Detroit, Mich. Apparatus for washing air. 367,948; June 6; Serial No. 405,409; published Mar. 28, 1939. Class 34.

Schultz, George, doing business as The George Glove Co., New York, N. Y. Gloves. 368,164; June 6. Class 39.

Schwab, Armand, & Co., Inc., New York, N. Y. Hat braid. 368,049; June 6; Serial No. 414,536; published Mar. 28, 1939. Class 40.

Scott Paper Company, assignor to Scott Paper Company, Chester, Pa. Gauze and absorbent paper. 126,962; renewed Oct. 14, 1939.

Scully Signal Company, Cambridge, Mass. Portable fill pipe connection. 368,168; June 6. Class 13.

Sedlak, Arthur, Company, Inc., New York, N. Y. Pile fabrics. 368,063; June 6; Serial No. 414,756; published Mar. 28, 1939. Class 42.

Sellmer, Walter B., doing business as Selmolene Manufacturing Co., San Rafael, Calif. Quick healing salve or ointment. 367,970; June 6; Serial No. 411,059; published Mar. 21, 1939. Class 6.

Selma Products, Inc., Los Angeles, Calif. Depilatory product. 368,055; June 6; Serial No. 414,645; published Mar. 21, 1939. Class 6.

Selmolene Manufacturing Co. (See Sellmer, Walter B.)

Sfregos Products Company. (See Chaousy, George J.)

Shapleigh Hardware Company, St. Louis, Mo. Cutlery, machinery, and tools, and parts thereof. 127,132; renewed Oct. 21, 1939.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical and medicated jellies. 367,927; June 6; Serial No. 397,054; published Mar. 28, 1939. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Chemotherapeutic agents. 367,931; June 6; Serial No. 398,690; published Mar. 28, 1939. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Chemotherapeutic agent. 368,039; June 6; Serial No. 414,276; published Mar. 28, 1939. Class 6.

Sheffield Farms Company, Inc., New York, N. Y. Milk, cream, evaporated milk, etc. 127,133; renewed Oct. 21, 1939.

Sinclair Refining Company, Chicago, Ill., to Sinclair Refining Company, New York, N. Y. Oils and greases. 126,348; renewed Aug. 19, 1939.
Sinclair Refining Company, Chicago, Ill., to Sinclair Refining Company, New York, N. Y. Oils and greases. 126,782; renewed Sept. 30, 1939.
Sinclair Manufacturing Company, The, Toledo, Ohio. Bleaching, deodorizing, and disinfecting preparations. 368,119; June 6; Serial No. 415,618; published Mar. 28, 1939. Class 6.
Skelgas Company, Kansas City, Mo. Liquefied petroleum gas, compressed gas, compressed natural gas, etc. 368,009; June 6; Serial No. 413,569; published Mar. 21, 1939. Class 6.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Scarfs and mufflers. 368,180; June 6.
Smith, V. R., doing business as V. R. Smith Olive Co., Lindsay, Calif. Canned olives. 367,930; June 6; Serial No. 398,411; published Mar. 28, 1939. Class 46.
Spalding, A. G., & Bros., Chicopee, Mass. Golf clubs. 368,186; June 6.
Staley, A. E., Manufacturing Company, Decatur, Ill. Laundry starch. 368,104; June 6; Serial No. 415,420; published Mar. 21, 1939. Class 6.
Standard Vanilla Company. (See Goflinet, Clarence V.)
Stanly, Dr. J. W., & Son, Wilmington, N. C. Preparation for use in the treatment of athlete's foot. 368,010; June 6; Serial No. 413,570; published Mar. 28, 1939. Class 6.
Stayner Corporation, Berkeley, Calif. Effervescent organic granular compounds. 368,011; June 6; Serial No. 413,602; published Mar. 28, 1939. Class 6.
Steinam, A., Company, Inc., New York, N. Y. Piece goods. 367,973; June 6; Serial No. 411,347; published Mar. 28, 1939. Class 42.
Stover Manufacturing & Engine Co., Freeport, Ill. Windmills. 368,092; June 6; Serial No. 415,150; published Mar. 28, 1939. Class 23.
Strawbridge & Clothier, Philadelphia, Pa. Shoes and slippers, suits, etc. 368,004; June 6; Serial No. 413,491; published Mar. 14, 1939. Class 39.
Superb Glove Company, The, Johnstown, N. Y. Gloves. 368,192; June 6. Class 39.
Tam Products Co., Inc., New York, N. Y. Preparation for the treatment of ailments of the stomach. 368,134; June 6; Serial No. 415,968; published Mar. 28, 1939. Class 6.
Tennessee Furniture Corporation, Chattanooga, Tenn. Electric ranges and heaters. 367,934; June 6; Serial No. 400,258; published Mar. 28, 1939. Class 21.
Thorpe, Jay, Inc., New York, N. Y. Shoes. 368,183; June 6. Class 39.
Three Fold Products Co. (See Fishman, Ben.)
Thrush, H. A., & Company, Peru, Ind. Hot water heater. 367,971–2; June 6; Serial Nos. 411,192–3; published Mar. 28, 1939. Class 34.
Tildesley Coal Co., The, Cincinnati, Ohio. Coal. 368,165; June 6. Class 1.
Tokalon Chemical Corporation, New York, N. Y. Medicinal preparation. 368,082–3; June 6; Serial Nos. 414,971–2; published Mar. 21, 1939. Class 6.
Towry, Charles R., Tulsa, Okla. Packaged soups. 368,074; June 6; Serial No. 414,844; published Mar. 28, 1939. Class 46.
Tracy, Ella, Bismarck, Mo. Cough syrup. 368,016; June 6; Serial No. 413,883; published Mar. 28, 1939. Class 6.
Treyz, George I., Estate of, Cooks Falls, N. Y. Antifreeze methanol. 368,095; June 6; Serial No. 415,237; published Mar. 28, 1939. Class 6.
Tropical Fruit Products, St. Louis, Mo. Tonic for animals. 368,102; June 6; Serial No. 415,359; published Mar. 28, 1939. Class 6.
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Water buckets, tool boxes, oil cans, etc. 368,033; June 6; Serial No. 414,126; published Mar. 28, 1939. Class 2.
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Hand operated laundry washing machines, clothes wringers, etc. 368,034; June 6; Serial No. 414,129; published Mar. 28, 1939. Class 24.
Tuberlene Co., The, Neenah, Wis. Preparation for coughs. 368,124; June 6; Serial No. 415,675; published Mar. 28, 1939. Class 6.
Tyler, W. S., Company, The, Cleveland, Ohio. Screens. 368,156–7; June 6. Class 23.
Union Company, The, Columbus, Ohio. Women's and misses' hats, gloves, and shoes, etc. 368,150; June 6. Class 39.
United Distillers Products Corp., Amston, Conn. Rum, whiskey, gin, etc. 368,138; June 6; Serial No. 416,125; published Mar. 28, 1939. Class 49.
United Knitwear, Incorporated, Cincinnati, Ohio. Sweaters, polo shirts, leather coats, etc. 368,075; June 6; Serial No. 414,845; published Mar. 28, 1939. Class 39.
United States Shoe Corporation, The, Cincinnati, Ohio. Shoes. 367,924; June 6; Serial No. 387,150; published Mar. 1, 1938. Class 39.
U. S. Standard Products Company, Woodworth, Wis. Preparation for use in treating anemic conditions and as a tonic. 368,050; June 6; Serial No. 414,543; published Mar. 21, 1939. Class 6.
Van Tongeren, Chester, doing business as Dutch Novelty Shops, Holland, Mich. Novelty toy crates. 368,144; June 6; Serial No. 416,215; published Mar. 28, 1939. Class 22.
Van Tongeren, Chester, doing business as Dutch Novelty Shops, Holland, Mich. Novelty toy. 368,145–6; June 6; Serial Nos. 416,216–17; published Mar. 28, 1939. Class 22.
Varitex Company. (See Price, Oscar R.)
Vulmar Safety Razor Co., Chicago, Ill. Razor blades and razors. 368,041; June 6; Serial No. 414,326; published Mar. 28, 1939. Class 23.
Walgreen Co., Chicago, Ill. Golf balls. 368,093; June 6; Serial No. 415,152; published Mar. 28, 1939. Class 22.
Waverly Laboratories, Inc., New York, N. Y. Perfumery. 367,946; June 6; Serial No. 404,878; published Mar. 28, 1939. Class 6.
Weitzman, Louis L., doing business as Weitzman Shoe Company, Newark, N. J. Boots and shoes. 367,935; June 6; Serial No. 400,815; published Mar. 14, 1939. Class 39.
Western Auto Supply Company, Kansas City, Mo. Tires. 368,195; June 6. Class 35.
Whitewater Garment Company. (See Perry, Leo.)
Wildberg Bros. Smelting & Refining Co., Los Angeles, Calif. Precious metals. 368,078; June 6; Serial No. 414,905; published Mar. 28, 1939. Class 14.
Wohl Shoe Company, St. Louis, Mo. Shoes. 368,017; June 6; Serial No. 413,888; published Mar. 14, 1939. Class 39.
Zerbee, Louis J., doing business as L. J. Zerbee & Company, Bellefontaine, Ohio. Furniture. 368,086; June 6; Serial No. 415,065; published Mar. 28, 1939. Class 32.
Zoes, Christ A., assignor to C. A. Zoes Manufacturing Co., Chicago, Ill. Dressing for leather and for shoes and other articles made from leather. 125,377; renewed May 13, 1939.

LIST OF REGISTRANTS OF LABELS

American Tissue Mills, Holyoke, Mass. Heavy Waxed Paper. For Waxed Paper. 53,089; June 6.
American Tissue Mills, Holyoke, Mass. Waxed Lunch Wraps. For Waxed Paper. 53,090; June 6.
Anestex Laboratories. (See Curtis, David.)
Berkshire Chocolate Company. (See Daggett Chocolate Company.)
Clayton, A. C., Printing Company, St. Louis, Mo. Fine Footwear. For Footwear. 53,091; June 6.
Colonial Works, Brooklyn, N. Y. Colonial A No. 1 Floor Varnish. For Floor Varnish. 53,092; June 6.
Colonial Works, Brooklyn, N. Y. Colonial Lustrolac 4 Hour Drying Clear Varnish. For Clear Varnish. 53,093; June 6.
Cooper, Cumans W., doing business as Polish King Company, Los Angeles, Calif. Upholstery King. For a Liquid for Cleaning Fast Color Fabrics Such as Upholstery, Rugs, Drapes, Auto Upholstery, etc. 53,094; June 6.
Crestwood Chocolate Company. (See Daggett Chocolate Company.)
Curtis, David, doing business as The De-Ce Products Co. of N. Y. (Anestex Laboratories), New York, N. Y. Procaine Solution with Epinephrine (Anestex Injectubes Brand). For Containers Holding Tubes Filled with a Solution of Procaine with Epinephrine a Local Anesthetic. 53,095; June 6.
Daggett Chocolate Company, doing business as Crestwood Chocolate Company, Cambridge, Mass. Crestwood Miniature. For Chocolates. 53,096; June 6.
Daggett Chocolate Company, doing business as Berkshire Chocolate Company, Cambridge, Mass. Berkshire Chocolates in Miniature. For Chocolates. 53,097; June 6.
De-Ce Products Co. of N. Y., The. (See Curtis, David.)
Gumakers of America, Inc., Clifton Heights, Pa. Bubly. For Chewing Gum. 53,098; June 6.
Gumakers of America, Inc., Clifton Heights, Pa. Foto. For Chewing Gum. 53,099; June 6.
Hall, Hettie M., Ocean Beach, Calif. Stay-Bib Bonnet Aprons. For Ladies' and Children's Aprons. 53,100; June 6.
Hoague-Sprague Corporation, Lynn, Mass. Sky-Line Shoes. For Boxes. 53,101; June 6.
Hoague-Sprague Corporation, Lynn, Mass. Monumental. For Boxes. 53,102; June 6.
Hoague-Sprague Corporation, Lynn, Mass. Per-Fect-O-Pedic La Salle. For Boxes. 53,103; June 6.
Hoague-Sprague Corporation, Lynn, Mass. Royal Scout Six. For Boxes. 53,104; June 6.
Hoague-Sprague Corporation, Lynn, Mass. They See the Box First. For Boxes. 53,105; June 6.
Hoague-Sprague Corporation, Lynn, Mass. Stoner's Smart Shoes. For Boxes. 53,106; June 6.
Hoague-Sprague Corporation, Lynn, Mass. J. For Boxes. 53,107; June 6.

Hoague-Sprague Corporation, Lynn, Mass. Barbara. For Boxes. 53,108; June 6.
Hoague-Sprague Corporation, Lynn, Mass. Wilson Shoes. For Boxes. 53,109; June 6.
Hoague-Sprague Corporation, Lynn, Mass. They See the Box First. For Boxes. 53,110–11; June 6.
Hudson, George L., Chicago, Ill. Strand's Buns. For Buns. 53,112; June 6.
Hudson, George L., Chicago, Ill. Silver Crest Bread. For Bread. 53,113; June 6.
Hugh Specialty Co., Chicago, Ill. Miniaform Doll House Furniture. For Toys, to wit, Doll House Furniture. 53,114; June 6.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Kroger's Country Club Quality Brand Corn Flakes. For Corn Flakes. 53,115; June 6.
Menasha Products Company, Menasha, Wis. Valley Maid Ice Cream. For Ice Cream. 53,116; June 6.
Meyer, Frank C., Co. Inc., New York, N. Y. Mayfair. For Footwear. 53,117; June 6.
Meyer, Frank C., Co. Inc., New York, N. Y. Page. For Footwear. 53,118; June 6.
Meyer, Frank C., Co. Inc., New York, N. Y. Siegel's. For Shoes. 53,119; June 6.
Meyer, Frank C., Co. Inc., New York, N. Y. Smart Bek Shoes. For Shoes. 53,120; June 6.
Meyer, Frank C., Co. Inc., New York, N. Y. Smart Shoes. For Shoes. 53,121; June 6.
Meyer, Frank C., Co. Inc., New York, N. Y. Toby Todd. For Footwear. 53,122; June 6.
Penick & Ford, Ltd. Incorporated, New York, N. Y. Penick. For Imitation Maple Waffle Syrup. 53,123; June 6.
Polish King Company. (See Cooper, Cumans W.)
Service Boot & Legging Co., Inc., New York, N. Y. Service. For Hand Sewn Camp Moccasins. 53,124; June 6.

LIST OF REGISTRANTS OF PRINTS

American Tobacco Company, The, New York, N. Y. Scotland Yard—London. For Cigarettes. 17,414; June 6.
American Tobacco Company, The, New York, N. Y. St. Paul's Cathedral—London. For Cigarettes. 17,415; June 6.
American Tobacco Company, The, New York, N. Y. No. 10 Downing Street—London. For Cigarettes. 17,416; June 6.
American Tobacco Company, The, New York, N. Y. Westminster Abbey—London. 17,417; June 6.
American Tobacco Company, The, New York, N. Y. Horse Guards—Whitehall, London. For Cigarettes. 17,418; June 6.
American Tobacco Company, The, New York, N. Y. St. James's Palace—London. For Cigarettes. 17,419; June 6.
American Tobacco Company, The, New York, N. Y. Ehe Guildhall—London. For Cigarettes. 17,420; June 6.
American Tobacco Company, The, New York, N. Y. Tower of London. For Cigarettes. 17,421; June 6.
American Tobacco Company, The, New York, N. Y. Lincoln Cathedral—England. For Cigarettes. 17,422; June 6.
American Tobacco Company, The, New York, N. Y. Warwick Castle — England. For Cigarettes. 17,423; June 6.
American Tobacco Company, The, New York, N. Y. Exeter Cathedral—England. For Cigarettes. 17,424; June 6.
American Tobacco Company, The, New York, N. Y. Canterbury Cathedral—England. For Cigarettes. 17,425; June 6.
American Tobacco Company, The, New York, N. Y. Kenilworth Castle—England. For Cigarettes. 17,426; June 6.
American Tobacco Company, The, New York, N. Y. Salisbury Cathedral—England. For Cigarettes. 17,427; June 6.
American Tobacco Company, The, New York, N. Y. Christ Church College—Oxford. For Cigarettes. 17,428; June 6.
American Tobacco Company, The, New York, N. Y. King's College—Cambridge. For Cigarettes. 17,429; June 6.
American Tobacco Company, The, New York, N. Y. York Minster—England. For Cigarettes. 17,430; June 6.
American Tobacco Company, The, New York, N. Y. The Houses of Parliament. For Cigarettes. 17,431; June 6.
American Tobacco Company, The, New York, N. Y. Edinburgh Castle — Scotland. For Cigarettes. 17,432; June 6.
American Tobacco Company, The, New York, N. Y. Covent Garden Theatre—London. For Cigarettes. 17,433; June 6.
American Tobacco Company, The, New York, N. Y. Windsor Castle. For Cigarettes. 17,434; June 6.
American Tobacco Company, The, New York, N. Y. Balmoral Castle — Scotland. For Cigarettes. 17,435; June 6.
American Tobacco Company, The, New York, N. Y. Buckingham Palace—London. For Cigarettes. 17,436; June 6.
American Tobacco Company, The, New York, N. Y. The Mansion House—London. For Cigarettes. 17,437; June 6.
General Mills, Inc., Minneapolis, Minn. It's the New Way to Make a Man's Type Shortcake! For Biscuit Flour. 17,438; June 6.
Lowe, Joe, Corporation, New York, N. Y. Now for a-Chocsicle Our Favorite Ice Cream on-a-Stick 5¢. For Ice Cream Confections on a Stick Coated with Chocolate. 17,439; June 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Tildesley Coal Co. 368,165; June 6.
Lambskin, suede, and leather. Levy & Baumann. 368,161; June 6.
Resinous materials, Synthetic. Röhm & Haas Company. 367,998; June 6; Serial No. 413,144; published Jan. 17, 1939.

CLASS 2

Buckets, tool boxes, oil cans, etc., Water. Tru Test Marketing & Merchandising Corp. 368,033; June 6; Serial No. 414,126; published Mar. 28, 1939.

CLASS 4

Cleaning preparations. General Chemical Company. 367,952; June 6; Serial No. 406,638; published Mar. 28, 1939.
Cleanser. H. D. Mathews. 368,001; June 6; Serial No. 413,357; published Mar. 28, 1939.
Cleansing compound, Granulated chemical. Oakley Chemical Company. 127,103; renewed Oct. 21, 1939.
Dressing for leather and for shoes and other articles made from leather. C. A. Zoes. 125,377; renewed May 13, 1939.

CLASS 5

Cements, Adhesive. V. W. Lawrence, Sr. 368,099; June 6; Serial No. 415,340; published Mar. 28, 1939.
Gums, Adhesive. Penick & Ford, Ltd. Incorporated. 367,907; June 6; Serial No. 412,982; published Mar. 28, 1939.

CLASS 6

Acid resisting solution. J. S. Gunterman. 367,968; June 6; Serial No. 410,733; published Mar. 21, 1939.
Antidigestant preparation. Burton-Levin Foundation, Inc. 368,044; June 6; Serial No. 414,484; published Mar. 28, 1939.
Astringents, astringent cerates, beauty creams, etc. Jaquet, Incorporated. 368,136; June 6; Serial No. 416,066; published Mar. 28, 1939.
Bactericide, germicide, deodorant, etc. Mathieson Alkali Works (Inc.). 367,977; June 6; Serial No. 411,745; published Dec. 27, 1938.
Bleaching, deodorizing, and disinfecting preparations. Sinclair Refining Company. 368,119; June 6; Serial No. 415,618; published Mar. 28, 1939.
Bluing, Laundry. J. C. Kellogg. 125,228; renewed Apr. 22, 1939.
Chemical addition agents for fuels and lubricating oils. Patent Fuels & Color Corporation. 367,966; June 6; Serial No. 410,608; published Mar. 28, 1939.
Chemical exothermic. Rilling-Arnao Company. 367,939; June 6; Serial No. 402,142; published Mar. 28, 1939.
Chemical preparations. Aqua-Sec Corp. 368,013; June 6; Serial No. 413,770; published Mar. 28, 1939.
Chemical substance. Onyx Oil & Chemical Company. 368,128; June 6; Serial No. 415,791; published Mar. 28, 1939.
Chemo-therapeutic agent. Sharp & Dohme, Incorporated. 368,039; June 6; Serial No. 414,276; published Mar. 28, 1939.
Chemo-therapeutic agents. Sharp & Dohme, Incorporated. 367,931; June 6; Serial No. 398,690; published Mar. 28, 1939.
Cologne, skin lotion, perfume, etc. Castilian Products Corp. 368,120; June 6; Serial No. 415,633; published Mar. 21, 1939.
Compositions containing barium compounds. Ferro-Alloys Incorporated. 368,097; June 6; Serial No. 415,332; published Mar. 28, 1939.

Cosmetic oils, toilet lotions, colognes, etc. R. H. Macy & Co. 368,026; June 6; Serial No. 414,035; published Mar. 21, 1939.
Cosmetics and toilet preparations. I. H. Hellman. 368,111; June 6; Serial No. 415,511; published Mar. 21, 1939.
Cough drops, cough syrup, etc. Cumberland Pharmacal Company. 367,942; June 6; Serial No. 402,903; published Mar. 22, 1939.
Cough syrup. E. Tracy. 368,016; June 6; Serial No. 413,883; published Mar. 28, 1939.
Cough syrups. K. C. Hardesty. 368,021; June 6; Serial No. 413,944; published Mar. 21, 1939.
Cream, all purpose cream, skin lotion, etc., Cleansing. Castilian Products Corp. 368,121; June 6; Serial No. 415,635; published Mar. 21, 1939.
Cream, Toilet. Howard Bros. Chemical Co. 125,451; renewed May 20, 1939.
Creams, cleansing creams, obesity creams, etc., Cold. Lightfoot Schultz Co. 368,126; June 6; Serial No. 415,719; published Mar. 21, 1939.
Creams, cleansing creams, obesity creams, etc., Cold. Lightfoot Schultz Co. 368,127; June 6; Serial No. 415,721; published Mar. 21, 1939.
Dentifrice. Lactona, Incorporated. 368,085; June 6; Serial No. 415,043; published Mar. 28, 1939.
Dentifrices. M. V. Reid. 367,950; June 6; Serial No. 406,100; published Mar. 28, 1939.
Depilatory product. Selma Products, Inc. 368,055; June 6; Serial No. 414,645; published Mar. 21, 1939.
Effervescent organic granular compounds. Stayner Corporation. 368,011; June 6; Serial No. 413,602; published Mar. 28, 1939.
Enzyme preparation. Röhm & Haas Company. 368,123; June 6; Serial No. 415,666; published Mar. 28, 1939.
Fluid preparations comprising ethyl cellulose. Dow Chemical Company. 368,135; June 6; Serial No. 415,980; published Mar. 28, 1939.
Fungicides. Mer-O-Ree, Incorporated. 368,062; June 6; Serial No. 414,748; published Mar. 28, 1939.
Gas, compressed gas, compressed natural gas, etc., Liquefied natural. Skelgas Company. 368,009; June 6; Serial No. 413,569; published Mar. 21, 1939.
Insecticides, disinfectants, and germicides. Fawland Company. 127,229; renewed Oct. 28, 1939.
Jelly that is antiseptic to nasal cavities and membranes. J. R. Arnold. 368,117; June 6; Serial No. 415,577; published Mar. 21, 1939.
Laxative preparation. A. H. Robins Company. 368,131; June 6; Serial No. 415,862; published Mar. 28, 1939.
Liniment. Kro-No Liniment. 368,058; June 6; Serial No. 414,701; published Mar. 28, 1939.
Liniment. H. J. Nicholas. 368,027; June 6; Serial No. 414,038; published Mar. 28, 1939.
Liniment. A. Redzisz. 368,130; June 6; Serial No. 415,861; published Mar. 28, 1939.
Liniments, cordial for use in treatment of irregularities of the bowels, etc. San Antonio Drug Co. 127,127; renewed Oct. 21, 1939.
Medical therapeutic agent. Phillips-Joffrion. 368,008; June 6; Serial No. 413,560; published Mar. 21, 1939.
Medicinal prepartion. J. R. Arnold. 368,116; June 6; Serial No. 415,576; published Mar. 21, 1939.
Medicinal preparation. Roche-Organon, Inc. 368,103; June 6; Serial No. 415,414; published Mar. 28, 1939.
Medicinal preparation. Tokalon Chemical Corporation. 368,082–3; June 6; Serial Nos. 414,971–2; published Mar. 21, 1939.
Medicine, Patent. Pacific Mercantile Company. 367,956; June 6; Serial No. 408,473; published Mar. 28, 1939.
Medicines and pharmaceutical preparations. International Affiliated Corporation. 368,061; June 6; Serial No. 414,739; published Mar. 28, 1939.
Methanol, Anti-freeze. Estate of George I. Treyz. 368,095; June 6; Serial No. 415,237; published Mar. 28, 1939.
Nail polish and enamel. Charm Products Inc. 368,014; June 6; Serial No. 413,816; published Mar. 21, 1939.
Ointment. J. R. Arnold. 368,115; June 6; Serial Nos. 415,575–7; published Mar. 21, 1939.
Perfume. Dorothy Gray Salons. 368,118; June 6; Serial No. 415,583; published Mar. 28, 1939.
Perfume. I. H. Hellman. 368,110; June 6; Serial No. 415,510; published Mar. 21, 1939.
Perfume, toilet water, face powder, etc. Lentheric, Incorporated. 367,937; June 6; Serial No. 401,803; published Mar. 28, 1939.
Perfume, toilet water, skin lotion, etc. Houbigant, Inc. 368,056; June 6; Serial No. 414,660; published Mar. 28, 1939.
Perfumery. Waverly Laboratories, Inc. 367,946; June 6; Serial No. 404,878; published Mar. 28, 1939.
Perfumes and cosmetic creams. Lentheric, Incorporated. 368,067; June 6; Serial No. 414,787; published Feb. 21, 1939.
Perfumes, toilet water, face powder, etc. Parfums Charbert Inc. 368,019; June 6; Serial No. 413,910; published Mar. 28, 1939.
Peroxides, Organic. Lucidol Corporation. 368,133; June 6; Serial No. 415,905; published Mar. 28, 1939.
Pharmaceutical and medicated jellies. Sharp & Dohme, Incorporated. 367,927; June 6; Serial No. 397,054; published Mar. 28, 1939.
Pharmaceutical preparation. Aciform Sales Corporation. 368,059–60; June 6; Serial Nos. 414,716–7; published Mar. 21, 1939.
Pharmaceutical preparation. Birmala Laboratories. 367,957; June 6; Serial No. 408,747; published Mar. 28, 1939.
Powder, cold cream, vanishing cream, etc., Face. House of Westmore Inc. 368,025; June 6; Serial No. 413,990; published Mar. 21, 1939.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 368,081; June 6; Serial No. 414,945; published Mar. 21. 1939.
Powder, Medicated. Mennen Company. 368,070; June 6; Serial No. 414,793; published Mar. 21, 1939.
Preparations for ailments of horses, cattle, sheep, etc. Dr. L. D. LeGear. 126,444; renewed Aug. 26, 1939.
Preparation for coughs. Tuberlene Co. 368,124; June 6; Serial No. 415,675; published Mar. 28, 1939.
Preparation for the treatment of ailments of the stomach. Tam Products Co. 368,134; June 6; Serial No. 415,968; published Mar. 28, 1939.
Preparation for use as a scalp conditioner, etc. B. Fishman. 368,035; June 6; Serial No. 414,145; published Mar. 28, 1939.
Preparation for use in the treatment of athlete's foot. Dr. J. W. Stanly & Son. 368,010; June 6; Serial No. 413,570; published Mar. 28, 1939.
Preparation for use in treating anemic conditions and as a tonic. U. S. Standard Products Company. 368,050; June 6; Serial No. 414,543; published Mar. 21, 1939.
Salve for treating athlete's foot. W. A. Riemer. 368,015; June 6; Serial No. 413,879; published Mar. 28, 1939.
Salve or ointment, Quick healing. W. B. Sellmer. 367,970; June 6; Serial No. 411,059; published Mar. 21, 1939.
Solvents. Hunter-Northcott Chemical Laboratories. 368,084; June 6; Serial No. 414,997; published Mar. 21, 1939.
Spray, Plant. Agricultural Insecticide Co. Inc. 368,076; June 6; Serial No. 414,854; published Mar. 21, 1939.
Starch, Laundry. A. E. Staley Manufacturing Company. 368,104; June 6; Serial No. 415,420; published Mar. 21, 1939.
Stomachic and alterative preparation. Conrad Company. 368,077; June 6; Serial No. 414,860; published Mar. 21, 1939.
Sulphur and sulphur containing products. General Chemical Company. 367,951; June 6; Serial No. 406,584; published Mar. 28, 1939.
Tonic, Botanic-laxative. G. J. Chaousy. 368,040; June 6; Serial No. 414,325; published Mar. 28, 1939.
Tonic for animals. Tropical Fruit Products. 368,102; June 6; Serial No. 415,359; published Mar. 28, 1939.
Tonic, Liquid hog. Kewanee Liquids Manufacturing Co. 368,090; June 6; Serial No. 415,126; published Mar. 28, 1939.
Tonic tablets; and ointments, Herb. Earlrich & Company. 367,964; June 6; Serial No. 410,459; published Mar. 28, 1939.
Tooth paste. Perx Company. 368,101; June 6; Serial No. 415,346; published Mar. 28, 1939.
Vitamin B-1 and iron, a tonic. Rare Chemicals, Inc. 368,129; June 6; Serial No. 415,860; published Mar. 28, 1939.
Washing fluid. M. L. Ponder. 367,982; June 6; Serial No. 411,967; published Mar. 28, 1939.

CLASS 10

Fertilizer. McMillan & Harrison Fertilizer Co. 368,087; June 6; Serial No. 415,085; published Mar. 28, 1939.
Fertilizer, Cotton-plant. A. D. Adair & McCarty Bros., Inc. 125,774; Renewed June 17, 1939.

CLASS 11

Typewriter ribbons, carbon papers. A. P. Little, Inc. 368,057; June 6; Serial No. 414,664; published Mar. 28, 1939.
Writing fluids. L. H. Appel. 368,080; June 6; Serial No. 414,942; published Mar. 28, 1939.

CLASS 13

Ceramic ware. Ceramic Products Company. 367,947; June 6; Serial No. 405,059; published Mar. 28, 1939.
Fasteners, Slide. Ideal Fastener Corporation. 368,066; June 6; Serial No. 414,783; published Mar. 28, 1939.
Hog-rings and pig-rings. Wm. E. Pratt Mfg. Co. 367,940; June 6; Serial No. 402,276; published Mar. 28, 1939.
Pipe connection, Portable fill. Scully Signal Company. 368,168; June 6.

CLASS 14

Metals, Precious. Wildberg Bros. Smelting & Refining Co. 368,078; June 6; Serial No. 414,905; published Mar. 28, 1939.

CLASS 15

Oils and greases. Sinclair Refining Company. 126,348; renewed Aug. 19, 1939.
Oils and greases. Sinclair Refining Company. 126,782; renewed Sept. 30, 1939.

CLASS 16

Undercoating or surface primer. Rinshed-Mason Company. 368,037; June 6; Serial No. 414,239; published Mar. 28, 1939.

CLASS 17

Cigarettes. American Tobacco Company. 126,239; renewed Aug. 19, 1939.

CLASS 19

Structural parts for trailers. R. W. Pointer. 367,929; June 6; Serial No. 397,952; published Jan. 11, 1938.

CLASS 21

Cables, Battery. Bowes "Seal-Fast" Corporation. 368,179; June 6.
Electronic and audio apparatus and devices. Thomas A. Edison, Incorporated. 368,005; June 6; Serial No. 413,514; published Mar. 28, 1939.
Lamps, Electric portable. Sandel Manufacturing Co. 368,153; June 6.
Light bulbs, Electric. Dura Electric Lamp Co. Inc. 368,045; June 6; Serial No. 414,488; published Mar. 28, 1939.
Lights, Electric flood. S & M Lamp Co. 367,943; June 6; Serial No. 403,332; published Mar. 28, 1939.
Motors, Electric. A. Gotzl. 367,928; June 6; Serial No. 397,229; published Mar. 28, 1939.
Ranges and heaters, Electric. Tennessee Furniture Corporation. 367,934; June 6; Serial No. 400,258; published Mar. 28, 1939.
Spark plugs. Gamble Stores Incorporated. 368,098; June 6; Serial No. 415,333; published Mar. 28, 1939.
Toasters, waffle irons, egg boilers, etc., Electrical. L. C. Paine. 368,100; June 6; Serial No. 415,344; published Mar. 28, 1939.

CLASS 22

Dolls. Geo. Borgfeldt Corporation. 368,149; June 6; Serial No. 416,245; published Mar. 28, 1939.
Dolls, rattles, and tops. E. I. du Pont de Nemours and Company. 368,147; June 6; Serial No. 416,230; published Mar. 28, 1939.
Golf balls. Walgreen Co. 368,093; June 6; Serial No. 415,152; published Mar. 28, 1939.
Golf clubs. A. G. Spalding & Bros. 368,186; June 6.
Toy. J. J. Conway. 368,141; June 6; Serial No. 416,136; published Mar. 28, 1939.
Toy crates, Novelty. C. Van Tongeren. 368,144; June 6; Serial No. 416,215; published Mar. 28, 1939.
Toy, Novelty. C. Van Tongeren. 368,145–6; June 6; Serial No. 416,216–7; published Mar. 28, 1939.
Toys, tennis racquets, tennis balls, etc., Stuffed. Gimbel Brothers, Inc. 368,032; June 6; Serial No. 414,103; published Mar. 28, 1939.

CLASS 23

Bearings, Lubricant impregnated. Chrysler Corporation. 368,053; June 6; Serial No. 414,591; published Mar. 28, 1939.
Cups, seals, and lubricators, Oil. Gits Bros. Mfg. Co. 368,184; June 6.
Cutlery, machinery, and tools, and parts thereof. Shapleigh Harware Company. 127,132; renewed Oct. 21, 1939.
Egg-grading and sorting machines. Philadelphia Metal Works Incorporated. 367,938; June 6; Serial No. 402,099; published Mar. 28, 1939.
Gypsum wallboard, fiber jointing tape, and joint cement for wallboard, etc. Kelley Plasterboard Company. 368,181; June 6.
Machinery and tools and parts thereof. Alvey Manufacturing Company. 127,173; renewed Oct. 21, 1939.
Metal and wood working machines, parts thereof, and accessories therefor. Pratt & Whitney Company. 125,835; renewed June 17, 1939.
Pumps. Cherry-Burrell Corporation. 367,996; June 6; Serial No. 412,944; published Mar. 28, 1939.
Rakes, Garden. W. F. McLean. 367,969; June 6; Serial No. 410,796; published Mar. 28, 1939.
Razor blades and razors. Vulmar Safety Razor Co. 368,041; June 6; Serial No. 414,326; published Mar. 28, 1939.
Razors, Electric. Match King, Inc. 368,167; June 6.
Scissors. H. Pilmacher. 367,945; June 6; Serial No. 404,849; published Mar. 28, 1939.
Screens. W. S. Tyler Company. 368,156–7; June 6.
Separators, Centrifugal cream. Galloway Company. 368,029; June 6; Serial No. 414,066; published Mar. 28, 1939.
Shavers, Electric dry. Remington Rand Inc. 368,174; June 6.
Shaving devices and hair clippers, Electrically operated. Elgin Laboratories, Inc. 368,178; June 6.
Tool, Automobile body and fender straightening. F. J. Hauschild. 368,022; June 6; Serial No. 413,945; published Mar. 28, 1939.
Windmills. Stover Manufacturing & Engine Co. 368,092; June 6; Serial No. 415,150; published Mar. 28, 1939.

CLASS 24

Washing machines, clothes wringers, etc., Hand operated laundry. Tru Test Marketing & Merchandising Corp. 368,034; June 6; Serial No. 414,129; published Mar. 28, 1939.

CLASS 26

Film, Sensitized motion picture. V. L. S. Hafner. 367,974; June 6; Serial No. 411,481; published Mar. 28, 1939.
Machines used for determining and correcting the static or dynamic balance, or both, of automobile wheels etc. H. C. Schildmeier. 368,030; June 6; Serial No. 414,082; published Mar. 28, 1939.
Photographic objectives, lenses, and diffusion disks, etc Eastman Kodak Company. 368,031; June 6; Serial No. 414,098; published Mar. 28, 1939.
Shields, Eye. G. Miller, Jr. 367,990; June 6; Serial No. 412,714; published Mar. 28, 1939.
Sunglasses. Inlaid Optical Corporation. 368,036; June 6; Serial No. 414,152; published Mar. 28, 1939.

CLASS 27

Watches. Bulova Watch Company. 367,988; June 6; Serial No. 412,589; published Jan. 10, 1939.

CLASS 28

Stones, Precious and imitation precious. J. J. Felsenfeld. 127,040. renewed Oct. 21, 1939.

CLASS 29

Brushes, tooth brushes, and brooms, Hair. Fred Meyer, Inc. 368,175; June 6.

CLASS 31

Drip pans, baffles, and shaped elements used in refrigerators. Homasote Company, Inc. 368,132; June 6; Serial No. 415,891; published Mar. 28, 1939.

CLASS 32

Frames and window shades, Pictures. E. I. du Pont de Nemours and Company. 368,148; June 6; Serial No. 416,235; published Mar. 28, 1939.
Furniture. L. J. Zerbee. 368,086; June 6; Serial No. 415,065; published Mar. 28, 1939.
Shades, window shades, and shade rollers, Mounted. Columbia Mills, Inc. 368,139–40; June 6; Serial No. 416,133–4; published Mar. 28, 1939.

CLASS 34

Air moisteners and conditioners. Marshall-Wells Company. 368,042; June 6; Serial No. 414,358; published Mar. 28, 1939.
Apparatus for washing air. Schmieg Sheet Metal Works. 367,948; June 6; Serial No. 405,409; published Mar. 28, 1939.
Heater, Hot water. H. A. Thrush & Company. 367,971–2; June 6; Serial No. 411,192–3; published Mar. 28, 1939.

CLASS 35

Belts and belting. Goodyear Tire & Rubber Company. 368,142; June 6; Serial No. 416,139; published Mar. 28, 1939.
Belts, Drive. Medart Company. 368,143; June 6; Serial No. 416,152; published Mar. 28, 1939.
Hose. Goodyear Tire & Rubber Company. 368,137; June 6; Serial No. 416,098; published Mar. 28, 1939.
Tires. Western Auto Supply Company. 368,195; June 6.
Tires, Rubber. Ford Motor Company. 125,702; renewed June 3, 1939.
Tubes, packings, Inner. Daimler-Benz Aktiengesellschaft. 367,932; June 6; Serial No. 399,603; published Jan. 24, 1939.

CLASS 36

Musical mute. Harmon Mute Co. 368,089; June 6; Serial No. 415,118; published Mar. 28, 1939.

CLASS 37

Cards, Record. S. B. Freiberg. 368,125; June 6; Serial No. 415,711; published Mar. 28, 1939.
Paper, Bond. Lee Paper Company. 368,172; June 6.
Paper, Writing, news-print, and wrapping. Arrowhead Mills, Inc. 126,632; renewed Sept. 30, 1939.

CLASS 39

Apparel, Wearing. Ideal Linen Mesh Company. 367,986; June 6; Serial No. 412,377; published Mar. 14, 1939.
Blouses, sweaters, dresses, etc. Bonwit Teller, Inc. 368,071; June 6; Serial No. 414,812; published Mar. 28, 1939.
Boots and shoes. French, Shriner & Urner Manufacturing Co. 368,051; June 6; Serial No. 414,560; published Mar. 28, 1939.
Boots and shoes. L. I. Weitzman. 367,935; June 6; Serial No. 400,815; published Mar. 14, 1939.
Boots, shoes, and slippers. General Shoe Corporation. 368,079; June 6; Serial No. 414,917; published Mar. 28, 1939.
Boots, shoes, and slippers. D. Palter. 367,991; June 6; Serial No. 412,717; published Mar. 14, 1939.
Boots, shoes, and slippers. D. Palter. 367,992; June 6; Serial No. 412,719; published Mar. 14, 1939.
Boots, shoes, and slippers. D. Palter. 367,993; June 6; Serial No. 412,724; published Mar. 14, 1939.
Brassières, girdles, corsets, etc. Fineform Brassiere Co. 368,003; June 6; Serial No. 413,475; published Mar. 14, 1939.
Clothing, Outer. Louis Roth & Co. Inc. 367,995; June 6; Serial No. 412,926; published Mar. 28, 1939.
Coats, vests, trousers. Goldenberg's. 127,278; renewed Nov. 4, 1939.
Corsets and girdles. Logan Health Garment Co. 368,163; June 6.
Diapers. W. F. Meck. 368,091; June 6; Serial No. 415,131; published Mar. 28, 1939.
Dresses, coats, sweaters, etc. May Department Stores Co. 368,173; June 6.
Girdles. Gem-Dandy Garter Co. 368,151; June 6.

Girdles, foundation garments, brassières, etc. Chevette, Inc. 367,959; June 6; Serial No. 409,805; published Mar. 14, 1939.
Gloves, Ladies'. Ireland Bros. 368,047; June 6; Serial No. 414,528; published Mar. 28, 1939.
Gloves. G. Schultz. 368,164; June 6.
Gloves. Superb Glove Company. 368,192; June 6.
Handkerchiefs and scarfs. Herrmann Handkerchief Company. 368,160; June 6.
Handkerchiefs, Bandana. L. Perry. 368,171; June 6.
Hats and hat bodies, Wool. Neumann-Endler Incorporated. 368,088; June 6; Serial No. 415,087; published Mar. 28, 1939.
Hats, gloves, and shoes, etc., Women's and misses'. Union Company. 368,150; June 6.
Hats, Ladies'. Hat Corporation of America. 368,160; June 6.
Hats, Men's. American Hat Co. 368,182; June 6.
Heels, Wood. Fred W. Mears Heel Company. 368,152; June 6.
Hosiery. Champion Glove Manufacturing Co. 368,191; June 6.
Neckties. H. C. Cohn & Co. 368,187–90; June 6.
Neckties, cravats, and scarfs. Clermont Cravat Company. 368,193; June 6.
Neckties, Cravats, shawls, etc. H. Nollman. 368,185; June 6.
Pajamas and polo shirts. Broom and Newman. 368,155; June 6.
Scarfs and mufflers. William Skinner & Sons. 368,180; June 6.
Shoes. Bleecker Shoe Co. 368,177; June 6.
Shoes. S. H. Kaplan. 368,194; June 6.
Shoes. Jay Thorpe, Inc. 368,183; June 6.
Shoes. United States Shoe Corporation. 367,924; June 6; Serial No. 387,150; published Mar. 1, 1938.
Shoes. Wohl Shoe Company. 368,017; June 6; Serial No. 413,888; published Mar. 14, 1939.
Shoes and overshoes. Footrue Shoe Company. 368,007; June 6; Serial No. 413,547; published Mar. 14, 1939.
Shoes and slippers. Comfort Slipper Corporation. 368,159; June 6.
Shoes and slippers. S. Cuetera. 367,949; June 6; Serial No. 405,767; published Aug. 23, 1938.
Shoes and slippers, suits, etc. Strawbridge & Clothier. 368,004; June 6; Serial No. 413,491; published Mar. 14, 1939.
Shoes, boots, overshoes, etc. Harry's Shoe Store, Inc. 368,154; June 6.
Shoes, Leather. Curtis-Stephens-Emery Co. 367,926; June 6; Serial No. 393,024; published July 27, 1937.
Shoes, Leather. Rogers Peet Company. 126,893; renewed Oct. 7, 1939.
Shoes, Men's. California Shoes, Ltd. 367,962; June 6; Serial No. 410,356; published Mar. 28, 1939.
Shoes, soles, and heels. Cambridge Rubber Company. 368,002; June 6; Serial No. 413,472; published Mar. 14, 1939.
Shoes, Women's. Diamond Shoe Company. 367,978; June 6; Serial No. 411,772; published Jan. 3, 1939.
Shoes, Women's and Misses'. California Shoes, Ltd. 367,963; June 6; Serial No. 410,357; published Mar. 28, 1939.
Shoes, Women's and misses'; Saks & Company. 367,987; June 6; Serial No. 412,464; published Mar. 14, 1939.
Shoes, Women's and misses'. Saks & Company. 367,999; June 6; Serial No. 413,277; published Mar. 28, 1939.
Shoes, Women's and misses'. Saks & Company. 368,052; June 6; Serial No. 414,578; published Mar. 28, 1939.
Skirts, waists, suits, etc. Lorraine Manufacturing Company. 368,046; June 6; Serial No. 414,501; published Mar. 21, 1939.
Slips, nightgowns, pajamas, etc. Epstein Underwear Co. 367,936; June 6; Serial No. 401,052; published Mar. 14, 1939.
Slips, panties, nightgowns, etc. Maid O'Troy, Inc. 368,054; June 6; Serial No. 414,614; published Mar. 28, 1939.
Sweaters, polo shirts, leather coats, etc. United Knitwear, Incorporated. 368,075; June 6; Serial No. 414,845; published Mar. 28, 1939.
Topcoats. Leopold Morse Company. 368,000; June 6; Serial No. 413,350; published Mar. 14, 1939.

CLASS 40

Bindings, Textile. Freydberg Bros., Inc. 368,018; June 6; Serial No. 413,904; published Mar. 14, 1938.
Braid, Hat. Armand Schwab & Co. 368,049; June 6; Serial No. 414,536; published Mar. 28, 1939.
Emblems, Applique. Frances Emblems, Inc. 367,983; June 6; Serial No. 412,027; published Mar. 28, 1939.
Fans. Harry Latz Service. 368,166; June 6.
Flowers stiffened with self hardened plastics, Crepe paper. Marimac Novelty Co. 368,068; June 6; Serial No. 414,788; published Mar. 28, 1939.
Gimp. Russell Fraser Wire Company. 368,028; June 6; Serial No. 414,045; published Mar. 14, 1939.
Hair pins, hair curlers and clips, and hair pin clips. F. Fuscaldo. 367,967; June 6; Serial No. 410,731; published Mar. 14, 1939.
Pins and snap fasteners, Safety. DeLong Hook and Eye Company. 368,064–5; June 6; Serial Nos. 414,773–4; published Mar. 28, 1939.
Pins and snap fasteners, Straight and safety. O. R. Price. 367,994; June 6; Serial No. 412,731; published Mar. 14,1939.
Ruching, Fabric. Cromwell Paper Company. 367,981; June 6; Serial No. 411,944; published Mar. 14, 1939.
Tape and cord and awning braid, etc., Venetian blind. International Braid Company. 368,162; June 6.
Webbing, Ladder. Thomas French & Sons, Ltd. 367,979; June 6; Serial No. 411,774; published Mar. 21, 1939.

CLASS 42

Cotton and rayon piece goods. W. E. McKay S Co. 368,069; June 6; Serial No. 414,792; published Mar. 28, 1939.
Cotton canvas piece goods. H. Lubow. 368,106; June 6; Serial No. 415,483; published Mar. 28, 1939.
Cotton piece goods for suitings. Riverside & Dan River Cotton Mills, Inc. 368,107; June 6; Serial No. 415,486; published Mar. 28, 1939.
Curtains, Lace. Patchogue-Plymouth Mills Corporation. 368,112; June 6; Serial No. 415,520; published Mar. 28, 1939.
Fabrics, Drapery and upholstery. Edwin Raphael Co. Inc. 368,020; June 6; Serial No. 413,911; published Mar. 28, 1939.
Fabrics of silk and silk mixtures. Cheney Brothers. 125,786; renewed June 17, 1939.
Fabrics of tubular construction. Industrial Rayon Corporation. 367,960; June 6; Serial No. 410,139; published Mar. 28, 1939.
Fabrics, Pile. Arthur Sedlak Company. 368,063; June 6; Serial No. 414,756; published Mar. 28, 1939.
Piece goods. Butler Brothers. 368,012; June 6; Serial No. 413,702; published Mar. 28, 1939.
Piece goods. A. Steinam Company. 367,973; June 6; Serial No. 411,347; published Mar. 28, 1939.
Rayon piece goods. Granite Fabrics, Inc. 368,170; June 6.
Sheets and pillow cases. Pepperell Manufacturing Company. 368,113; June 6; Serial No. 415,521; published Mar. 28, 1939.
Silk, rayon and cotton piece goods, Necktie. W. T. Losen, Inc. 368,043; June 6; Serial No. 414,453; published Mar. 28, 1939.

CLASS 44

Gauze and absorbent paper. Scott Paper Company. 126,962; renewed Oct. 14, 1939.
Hot water bottles, fountain syringes, and combinations. Fred Meyer, Inc. 368,176; June 6.
Ligatures and sutures, Surgical. Davis & Geck, Inc. 368,122 June 6; Serial No. 415,637; published Mar. 28, 1939.
Teeth, Artificial. Dental Manufacturing Coompany Limited. 368,006; June 6; Serial No. 413,544; published Mar. 28, 1939.

CLASS 45

Beverages. Monument Bottling Co. 368,048; June 6; Serial No. 414,529; published Mar. 28, 1939.
Beverages and syrups, concentrates, and extracts for making the same. Green & Green Inc. 367,980; June 6; Serial No. 411,862; published Mar. 28, 1939.
Beverages, and syrups, extracts, and flavors used in making the same. Celo Company of America. 367,944; June 6; Serial No. 403,812; published Apr. 26, 1939.
Beverages, and syrups, extracts, etc., Maltless. Celo Company of America. 368,158; June 6.

CLASS 46

Bakery goods. Associated Biscuit Co. 367,976; June 6; Serial No. 411,564; published Mar. 28, 1939.
Butter, Creamery. H. A. Gordhamer. 125,336; renewed May 13, 1939.
Cakes. Angelo Products Co. 367,925; June 6; Serial No. 387,970; published Mar. 28, 1939.
Candies, a confectionery, Chocolate coated. Cherry Specialty Company. 367,989; June 6; Serial No. 412,629; published Mar. 28, 1939.
Canned fruits and vegetables. Dukat Products Company. 367,954; June 6; Serial No. 407,539; published Mar. 28, 1939.
Canned fruits, vegetables, and salmon. John F. Lalla Company. 127,075; renewed Oct. 21, 1939.
Canned olives. V. R. Smith. 367,930; June 6; Serial No. 398,411; published Mar. 28, 1939.
Canned pineapple and pineapple juice. Hawaiian Pineapple Company, Ltd. 368,096; June 6; Serial No. 415,289; published Mar. 28, 1939.
Coffee and tea. Bustelo Coffee Roasting Co. 368,108; June 6; Serial No. 415,495; published Mar. 28, 1939.
Cottonseed cake and meal. Rule-Jayton Cotton Oil Co. 368,073; June 6; Serial No. 414,835; published Mar. 28, 1939.
Crackers and wafers. Associated Biscuit Co. 367,985; June 6; Serial No. 412,281; published Mar. 28, 1939.
Flavoring. C. V. Goffinet. 368,105; June 6; Serial No. 415,475; published Mar. 28, 1939.
Flour, canned vegetables and fruits, and fruit preserves, Wheat. Interstate Cotton Oil Refining Co. 367,965; June 6; Serial No. 410,588; published Mar. 28, 1939.
Flour, Soybean. Glidden Company. 367,933; June 6; Serial No. 399,660; published Mar. 28, 1939.
Food, Dog. Pet Kitchens, Inc. 368,038; June 6; Serial No. 414,271; published Mar. 28, 1939.
Food products. G. P. Miller. 367,923; June 6; Serial No. 375,946; published Mar. 28, 1939.
Food, Stock. Maritime Trading Corporation. 127,286; renewed Nov. 4, 1939.

Foods. Frank E. Davis Company. 125,625; renewed June 3, 1939.
Foods. Haas, Baruch & Co. 125,703; renewed June 3, 1939.
Fruits, Fresh citrus. Mutual Citrus Products Co. 367,961; June 6; Serial No. 410,300; published Nov. 1, 1938.
Grocery products. General Mills, Inc. 367,953; June 6; Serial No. 406,801; published Mar. 28, 1939.
Gum, Chewing. Gum Incorporated. 368,114; June 6; Serial No. 415,552; published Mar. 28, 1939.
Gum, Chewing. Gumakers of America, Inc. 367,984; June 6; Serial No. 412,182; published Mar. 28, 1939.
Ice cream. P. Daley. 367,955; June 6; Serial No. 408,341; published Mar. 28, 1939.
Milk, cream, evaporated milk, etc. Sheffield Farms Company. 127,133; renewed Oct. 21, 1939.
Oranges, Fresh. Redlands Mutual Orange Company. 125,940; renewed July 15, 1939.
Salt. Carey Salt Co. 368,109; June 6; Serial No. 415,498; published Mar. 28, 1939.
Seasoning of flavoring. Archer Chase & Company. 368,024; June 6; Serial No. 413,965; published Mar. 28, 1939.
Soups, Packaged. C. R. Towry. 368,074; June 6; Serial No. 414,844; published Mar. 28, 1939.
Spaghetti and macaroni. American Stores Company. 367,958; June 6; Serial No. 409,757; published Mar. 28, 1939.
Vegetables and cantaloupes, Fresh. G. H. Jones & Co. 368,094; June 6; Serial No. 415,165; published Mar. 28, 1939.
Vegetables, fresh deciduous and citrus fruits, etc., Fresh. C. F. Clark and Son. 368,072; June 6; Serial No. 414,821; published Mar. 28, 1939.

CLASS 49

Cordials. Joseph Krieg-Fink Company. 368,023; June 6; Serial No. 413,951; published Mar. 28, 1939.
Rum. Destileria Serralles, Inc. 367,975; June 6; Serial No. 411,522; published Mar. 28, 1939.
Rum, whiskey, gin, etc. United Distillers Products Corp. 368,138; June 6; Serial No. 416,125; published Mar. 28, 1939.
Whisky. Charles Muirhead & Son, Ltd. 367,941; June 6; Serial No. 402,825; published May 31, 1938.

LIST OF LABELS

Barbara. For Boxes. Hoague-Sprague Corporation. 53,108; June 6.
Berkshire Chocolates in Miniature. For Chocolates. Daggett Chocolate Company. 53,097; June 6.
Bubly. For Chewing Gum. Gumakers of America, Inc. 53,098; June 6.
Colonial A No. 1 Floor Varnish. For Floor Varnish. Colonial Works. 53,092; June 6.
Colonial Lustrolac 4 Hour Drying Clear Varnish. For Clear Varnish. Colonial Works. 53,093; June 6.
Crestwood Miniature. For Chocolates. Daggett Chocolate Company. 53,096; June 6.
Fine Footwear. For Footwear. A. C. Clayton Printing Company. 53,091; June 6.
Foto. For Chewing Gum. Gumakers of America, Inc. 53,099; June 6.
Heavy Waxed Paper. For Waxed Paper. American Tissue Mills. 53,089; June 6.
J. For Boxes. Hoague-Sprague Corporation. 53,107; June 6.
Kroger's Country Club Quality Brand Corn Flakes. For Corn Flakes. Kroger Grocery & Baking Company. 53,115; June 6.
Mayfair. For Footwear. Frank C. Meyer Co. Inc. 53,117; June 6.
Miniaform Doll House Furniture. For Toys, To Wit, Doll House Furniture. Hugh Specialty Co. 53,114; June 6.
Monumental. For Boxes. Hoague-Sprague Corporation. 53,102; June 6.
Page. For Footwear. Erank C. Meyer Co. Inc. 53,118; June 6.
Penick. For Imitation Maple Waffle Syrup. Penick & Ford, Ltd. Incorporated. 53,123; June 6.
Per-Fect-O-Pedic La Salle. For Boxes. Hoague-Sprague Corporation. 53,103; June 6.
Procaine Solution with Epinephrine (Anestex Injectubes Brand). For containers Holding Tubes Filled with a solution of Procaine with Epinephrine a Local Anesthetic D. Curtis. 53,095; June 6.
Royal Scout Six. For Boxes. Hoague-Sprague Corporation. 53,104; June 6.
Service. For Hand Sewn Camp Moccasins. Service Boot & Legging Co. 53,124; June 6.
Siegel's. For Shoes. Frank C. Meyer Co. Inc. 53,119; June 6.
Silver Crest Bread. For Bread. G. L. Hudson. 53,113; June 6.
Sky-Line Shoes. For Boxes. Hoague-Sprague Corporation. 53,101; June 6.
Smart Bek Shoes. For Shoes. Frank C. Meyer Co. Inc. 53,120; June 6.
Stoner's Smart Shoes. For Boxes. Hoague-Sprague Corporation. 53,106; June 6.
Strand's Buns. For Buns. G. L. Hudson. 53,112; June 6.
They See the Box First. For Boxes. Hoague-Sprague Corporation. 53,105; June 6.
They See the Box First. For Boxes. Hoague-Sprague Corporation. 53,110–11; June 6.
Toby Todd. For Footwear. Frank C. Meyer Co. Inc. 53,122; June 6.
Upholstery King. For a Liquid for Cleaning Fast Color Fabrics, Such as Upholstery, Rugs, Drapes, Auto Upholstery, etc. C. W. Cooper. 53,094; June 6.
Valley Maid Ice Cream. For Ice Cream. Menasha Products Company. 53,116; June 6.
Waxed Lunch Wraps. For Waxed Paper. American Tissue Mills. 53,090; June 6.
Wilson Shoes. For Boxes. Hoague-Sprague Corporation. 53,109; June 6.

LIST OF PRINTS

Balmoral Castle—Scotland. For Cigarettes. American Tobacco Company. 17,435; June 6.
Buckingham Palace—London. For Cigarettes. American Tobacco Company. 17,436; June 6.
Canterbury Cathedral—England. For Cigarettes. American Tobacco Company. 17,425; June 6.
Christ Church College—Oxford. For Cigarettes. American Tobacco Company. 17,428; June 6.
Covent Garden Theatre—London. For Cigarettes. American Tobacco Company. 17,433; June 6.
Edinburgh Castle—Scotland. For Cigarettes. American Tobacco Company. 17,432; June 6.
Exeter Cathedral—England. For Cigarettes. American Tobacco Company. 17,424; June 6.
Horse Guards—Whitehall, London. For Cigarettes. American Tobacco Company. 17,418; June 6.
It's the New Way to Make a Man's Type Shortcake! For Biscuit Flour. General Mills, Inc. 17,438; June 6.
Kenilworth Castle—England. For Cigarettes. American Tobacco Company. 17,426; June 6.
King's College—Cambridge. For Cigarettes. American Tobacco Company. 17,429; June 6.
Lincoln Cathedral—England. For Cigarettes. American Tobacco Company. 17,422; June 6.
No. 10 Downing Street—London. For Cigarettes. American Tobacco Company. 17,416; June 6.
Now for a-Chocsicle Our Favorite Ice Cream on-a-Stick 5¢. For Ice Cream Confections on a Stick Coated with Chocolate. Joe Lowe Corporation. 17,439; June 6.
St. James's Palace—London. For Cigarettes. American Tobacco Company. 17,419; June 6.
St. Paul's Cathedral—London. For Cigarettes. American Tobacco Company. 17,415; June 6.
Salisbury Cathedral—England. For Cigarettes. American Tobacco Company. 17,427; June 6.
Scotland Yard—London. For Cigarettes. American Tobacco Company. 17,414; June 6.
The Guildhall—London. For Cigarettes. American Tobacco Company. 17,420; June 6.
The Houses of Parliament. For Cigarettes. American Tobacco Company. 17,431; June 6.
The Mansion House—London. For Cigarettes. American Tobacco Company. 17,437; June 6.
Tower of London. For Cigarettes. American Tobacco Company. 17,421; June 6.
Warwick Castle—England. For Cigarettes. American Tobacco Company. 17,423; June 6.
Westminster Abbey—London. For Cigarettes. American Tobacco Company. 17,417; June 6.
Windsor Castle. For Cigarettes. American Tobacco Company. 17,434; June 6.
York Minster—England. For Cigarettes. American Tobacco Company. 17,430; June 6.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Addressograph-Multigraph Corporation. (See Smith, Clyde, assignor.)
Bergmann, Richard F. (See Sayers, W. W., Bergmann, and Watson.)
Link-Belt Company. (See Sayers, W. W., Bergmann, and Watson, assignors.)
Sayers, William W., Chicago, Ill., R. F. Bergmann, Cleveland, Ohio, and H. E. Watson, Philadelphia, Pa., assignors to Link-Belt Company, Chicago, Ill. Settling tank. Re. 21,109; June 6.
Smith, Clyde, Hopkinsville, Ky., assignor, by mesne assignments, to Addressograph-Multigraph Corporation, Cleveland, Ohio. Addressing and printing machine. Re. 21,110; June 6.
Watson, Harold F. (See Sayers, W. W., Bergmann, and Watson.)

LIST OF DESIGN PATENTEES

American Optical Company. (See Oker, Arne J., assignor.)
Angelica Jacket Company. (See Levy, Viola A., assignor.)
Arpin, Leonard G., New York, N. Y. and A. J. Bedwell, Fort Lauderdale, Fla. Combined comb and curler. 115,136; June 6.
Arras, George, Chicago, Ill. Reflector. 115,097; June 6.
Auto-Rapid Products Corporation. (See Falcon, Jeronimo, assignor.)
Barnett, Jack, Brooklyn, N. Y. Slipper or similar article. 115,141; June 6.
Bates Manufacturing Company. (See Noy, Annie W., assignor.)
Bausch & Lomb Optical Company. (See Miles, John R., assignor.)
Bedwell, Andrew J. (See Arpin, L. G., and Bedwell.)
Bergholm, John, Chicago, Ill. Grill. 115,142; June 6.
Blanc, Marinette, New York, N. Y. Hat or similar article. 115,154; June 6.
Blum, Hosmer L., Fort Wayne, Ind. Housing for dispensing apparatus. 115,143; June 6.
Broeren, Frank L., Neenah, assignor to Marathon Paper Mills Company, Rothschild, Wis. Dispenser for interfolded sheets. 115,098; June 6.
Caine, Robert, New York, N. Y. Dress. 115,099; June 6.
Clarkson, Alick, Bloomingdale Township, Du Page County, Ill. Portable steam cleaning apparatus. 115,185; June 6.
Cruze, John. (See Hendricks, George P., assignor.)
Curtis, Thomas S., La Canada, Calif. Color camera. 115,165; June 6.
D'Addario, Thomas, Long Island City, N. Y., assignor to N. H., J., and J. Darsky and C. Lockshin, Youngstown, Ohio. Bottle. 115,155; June 6.
Darsky, Joe, et al. (See D'Addario, Thomas, assignor.)
Darsky, Julius, et al. (See D'Addario, Thomas, assignor.)
Darsky, N. H., et al. (See D'Addario, Thomas, assignor.)
De Masters, James S., and J. W. Keyes, Kansas City, Mo. Electric heater. 115,100; June 6.
Deravin, Cleophas A., New York, N. Y. Restaurant booth unit. 115,144; June 6.
Derby Sportswear, Inc. (See Elowsky, Louis, assignor.)
De Vilbiss Company, The. (See Vuillemenot, Frederic A., assignor.)
Dillon, David, New York, N. Y. Combined radio cabinet and bookcase. 115,145; June 6.
Dolive, George C., Winter Park, Fla. Artificial bait. 115,101; June 6.
Edison General Electric Appliance Company. (See Stopa, Walter T., assignor.)
Falcon, Jeronimo, Buenos Aires, Argentina, assignor to Auto-Rapid Products Corporation. Automobile bumper. 115,146; June 6.
Finkelstein, Samuel, Brooklyn, N. Y. Game board or similar article. 115,147; June 6.
Flato, Paul E. (See Headley, George W., 3rd, assignor.)
Elowsky, Louis, Brooklyn, assignor to Derby Sportswear, Inc., New York, N. Y. Jacket. 115,102; June 6.
Flusser, Charlotte, New York, N. Y. Dress. 115,166; June 6.
Erickson, C. E., Company. (See Erickson, Ernest R., assignor.)
Erickson, Ernest R., assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa. Display rack or similar article. 115,103; June 6.
Erickson, Ernest R., assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa. Display rack or similar article. 115,104; June 6.
Flusser, Charlotte, New York, N. Y. Dress. 115,105; June 6.
Fracchia, Pauline, New York, N. Y. Dress. 115,106; June 6.
Fracchia, Pauline, New York, N. Y. Dress. 115,107; June 6.
Fracchia, Pauline, New York, N. Y. Dress. 115,108; June 6.
Fracchia, Pauline, New York, N. Y. Dress. 115,109; June 6.
Goodstein, Lawrence, New York, N. Y. Comfortable. 115,167; June 6.
Goodstein, Lawrence, New York, N. Y. Comfortable. 115,179; June 6.
Gruber, Harry J., et al. (See Maerz, Frederick K., assignor.)
Gruber, Max D., et al. (See Maerz, Frederick K., assignor.)
Hadley, Donald L., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Roaster. 115,168; June 6.
Hafften, Douglas J. (See Petersen, B. L., and Hafften.)
Hamblet, Marcia C., New York, N. Y. Candle. 115,110; June 6.
Headley, George W., 3rd, assignor to P. E. Flato, New York, N. Y. Lady's handbag or similar article. 115,111; June 6.
Hendricks, George P., Oakland, assignor of one-half to J. Cruze, Hayward, Calif. Book end. 115,112; June 6.
Hobson, Ota O., Chariton, Iowa. Supporting bar rack. 115,113; June 6.
Holden, Orioff W., Chicago, Ill. Wall shower bracket. 115,180; June 6.
Horsley, Caperton B., assignor to Sutton-Horsley Company Limited, Toronto, Ontario, Canada. Portable X-ray transformer housing. 115,114; June 6.
Hotstream Heater Company, The. (See Perrin, Paul C., assignor.)
Housman, David, Boston, Mass. Radio receiving set. 115,148; June 6.
Housman, David, Boston, Mass. Radio receiving set. 115,149; June 6.
Hymer, Harry E., Harrison, N. Y. Game device. 115,115; June 6.
Justrite Manufacturing Company. (See Packer, Charles S., assignor.)
Kaiser, John D., assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for circulating heaters. 115,116; June 6.
Karr, Darwin S., Los Angeles, Calif. Insect trap. 115,150; June 6.
Katzinger, Edward, Company, The. (See Zimmer, Myron J., assignor.)
Keyes, John W. (See De Masters, J. S.)
Koch, Louis A., Louisville, Ky. Automobile grille guard. 115,156; June 6.
Lentheric Incorporated. (See McIntosh, Frank, assignor.)
Levy, Viola A., New York, N. Y., assignor to Angelica Jacket Company, St. Louis, Mo. Uniform dress. 115,117; June 6.
Lewis, Bennett, New York, N. Y. Game board. 115,118; June 6.
Lind, Virginia, Atlanta, Ga. Cleaning device for pipe stems, cigar and cigarette holders. 115,157; June 6.
Linder, Max, Brooklyn, N. Y. Child's slipper. 115,151; June 6.
Lion Manufacturing Corporation. (See Reinecke, Jean O., assignor.)
Lockshin, Carl, et al. (See D'Addario, Thomas, assignor.)
Madsen, John S., New York, N. Y. Tablecloth or similar article. 115,169; June 6.
Marano, Pasquale, Brooklyn, N. Y. Table. 115,119; June 6.
Marathon Paper Mills Company. (See Broeren, Frank L., assignor.)
Maerz, Frederick K., assignor to H. J. and M. D. Gruber, doing business as Gruber Bros., New York, N. Y. Fluorescent tube socket crown. 115,158; June 6.

McIntosh, Frank, assignor to Lentheric Incorporated, New York, N. Y. Cake of soap or the like. 115,181; June 6.
Miles, John R., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Stereo-campimeter. 115,120; June 6.
Motor Wheel Corporation. (See Kaiser, John D., assignor.)
Nelson, Chester I., Davenport, Iowa. Shovel. 115,159; June 6.
Noy, Annie W., Brooklyn, N. Y., assignor to Bates Manufacturing Company, Lewiston, Maine. Textile fabric. 115,170; June 6.
Oker, Arne J., assignor to American Optical Company, Southbridge, Mass. Mirror. 115,121; June 6.
O'Leary, John A., Hollywood, Calif. Massage glove. 115,171; June 6.
Oppenheimer, Adolph, New York, N. Y. Suit. 115,122; June 6.
Packer, Charles S., assignor to Justrite Manufacturing Company, Chicago, Ill. Miner's lamp. 115,123; June 6.
Paschell, Anthon H., Cherokee, Iowa. Merchandise display rack. 115,124; June 6.
Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin and slug detector. 115,125; June 6.
Perrin, Paul C., Pittsburgh, Pa., assignor to The Hotstream Heater Company, Cleveland, Ohio. Front for a wall heater. 115,172; June 6.
Petersen, Bennett L., St. Paul, and D. J. Hafften, Minneapolis, Minn. Game board. 115,126; June 6.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 115,127; June 6.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 115,128; June 6.
Phillips, Jefferson C., Denver, Colo. Spoon. 115,129; June 6.
Pipenhagen, Charles A., Chicago, Ill. Combined hat holder and coat hanger supporting bar. 115,182; June 6.
Reid, Elmer A., Morrisville, Pa. Portable electric humidifier. 115,173; June 6.
Reinecke, Jean O., assignor to Lion Manufacturing Corporation, Chicago, Ill. Electric razor. 115,130; June 6.
Richardson, Ethel M., Hartford, Conn. Contribution box. 115,152; June 6.
Rosenthal, Samuel W., New York, N. Y. Permanent wave machine. 115,131; June 6.
Roth, Jules, New York, N. Y. Dress. 115,174; June 6.
Roth, Jules, New York, N. Y. Dress. 115,175; June 6.
Roth, Jules, New York, N. Y. Dress. 115,176; June 6.
Roth, Jules, New York, N. Y. Dress. 115,183; June 6.
Schneider, Matthew W., Chicago, Ill. Dental furnace or similar article. 115,132; June 6.
Seeberg, J. P., Corporation. (See Vose, Walter F., assignor.)
Seeman Brothers. (See Smith, Frasier, assignor.)
Short, Bessie L., Ames, Iowa. Combined tooth brush and powder holder. 115,133; June 6.
Slavin, John E., New Haven, Conn. Badge or similar article. 115,134; June 6.
Smith, Frasier, Wheeling, W. Va., assignor to Seeman Brothers, New York, N. Y. Jar. 115,162; June 6.
Snyder, Robert O., Baltimore, Md. Baby coach or similar article. 115,135; June 6.
Stopa, Walter T., Chicago, Ill., assignor to Edison General Electric Appliance Company. Combined receptacle and cover therefor. 115,160; June 6.
Stopa, Walter T., Chicago, Ill., assignor to Edison General Electric Appliance Company. Combined receptacle and cover therefor. 115,161; June 6.
Sutton-Horsley Company Limited. (See Horsley, Caperton B., assignor.)
Teague, Walter D., Jr. (See Teague, W. D., and W. D. Teague, Jr.)
Teague, Walter D., and W. D. Teague, Jr., New York, N. Y. Automobile. 115,177; June 6.
Tratsch, Walter A. (See Patzer, W., and Tratsch.)
Tru-Ade Inc. (See Ward, Lee C., assignor.)
Trumbull, Frank S., Providence, R. I. Spoon or similar article. 115,153; June 6.
Tweeddale, Francis D., Pomona, Calif. License plate for automobiles. 115,178; June 6.
Vose, Walter F., assignor to J. P. Seeburg Corporation, Chicago, Ill. Cooler cabinet or the like. 115,136; June 6.
Vuillemenot, Frederic A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. 115,137; June 6.
Vuillemenot, Frederic A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizing device. 115,138; June 6.
Ward, Lee C., assignor to Tru-Ade Inc., Los Angeles, Calif. Bottle. 115,163; June 6.
Westinghouse Electric & Manufacturing Company. (See Hadley, Donald L., assignor.)
Wood, Otis F., New York, N. Y. Decorated feather. 115,139; June 6.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 115,187; June 6.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 115,188; June 6.
Zimmer, Myron J., assignor to The Edward Katzinger Company, Chicago, Ill. Can opener. 115,140; June 6.
Zucker, Fannie, New York, N. Y. Evening wrap. 115,164; June 6.
Zumft, George, Stony Brook, N. Y. Illuminable compact or similar article. 115,184; June 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Winding machine. 2,160,810; June 6.
Abbott Laboratories. (See Volwiler, E. H., and Moore, assignors.)
Abbott Machine Company. (See Abbott, Edward J., assignor.)
Abell, Dale F. (See Abell, Joseph S., assignor.)
Abell, Joseph S., assignor of one-half to D. F. Abell, Louisville, Ky. Prismatic frame and floating body. 2,161,219; June 6.
Accumulatoren-Fabrik Aktiengesellschaft. (See Witte, Erich, assignor.)
Ackerman, Aaron. (See Du Pree, C., and Ackerman.)
Adams, Edward E. (See Adams, Edward T., assignor.)
Adams, Edward T., Long Beach, assignor to E. E. Adams, Los Angeles, Calif. Well pump. 2,160,811; June 6.
Adhesive Products Co., The. (See Harrison, W. F., and Meyer, assignors.)
Adrema Maschinenbauges, m. b. H. (See Krell, Joseph, assignor.)
Aero-Style Corporation. (See Harroun, Ray W., assignor.)
Aero-Style Corporation. (See Harroun, R. W., and Zimmerman, assignors.)
Agfa Ansco Corporation. (See Dieterle, W., Walter, and Dürr, assignors.)
Aikenhead, Stewart C., Euclid, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery venting means. 2,160,806; June 6.
Air Reduction Company. (See Anderson, James L., assignor.)
Airmaster Corporation. (See Hueglin, Herman C., assignor.)
Aktiengesellschaft für Stickstoffdünger. (See Winter, E., and Polack, assignors.)
Alabama Asphaltic Limestone Company. (See Conzelman, Joseph H., assignor.)
Albers, Gerhard H., assignor to Wincharger Corporation, Sioux City, Iowa. Impeller for wind-driven power apparatus. 2,161,444; June 6.
Alden, John H., and P. T. Stroup, New Kensington, Pa., and P. M. Budge, Fairfield, Conn., assignors to Aluminum Company of America, Pittsburgh, Pa. Making castings of aluminum and aluminum-base alloy. 2,160,812; June 6.
Alder, William F., Altadena, Calif. Electrical apparatus for changing the length of and displacement of the optical axis in cinematography. 2,161,120; June 6.
Alessandroni, Hugh. (See Work, L. T., and Alessandroni.)
Alexander, Arthur S., New York, N. Y., assignor, by mesne assignments, to Monarch Governor Company, Detroit, Mich. Vehicle accessory. 2,161,771; June 6.
Algemeene Vereeniging Van Rubberplanters Ter Oostkust Van Sumatra. (See Van Harpen, Nicolaas H., assignor.)
Alice, Francesco, Omegna, Italy. Process and device for the reproduction of designs on printing plates by means of photoelectrically controlled gravers. 2,160,951; June 6.
All American Cables, Incorporated. (See Henderson, Forest L., assignor.)
Allegmeine Elektricitatz Gesellschaft, Fredrick Karl. (See Henneberg, Walter, assignor.)
Allison, Donald K., Beverly Hills, Calif., assignor to Detracolar, Ltd. Color photography. 2,161,735; June 6.
Alquist, Francis N. (See Wiley, R. M., Alquist, and Slagh.)
Aluminum Company of America. (See Alden, J. H., Stroup, and Budge, assignors.)
Aluminum Company of America. (See Thomas, John W., assignor.)
Aluminum Cooking Utensil Company, The. (See Matter, J. K., and Horak, assignors.)
American Asphalt Roof Corporation. (See Venrick, Emmett E., assignor.)
American Bosch Corporation. (See Gibson, Robert H., assignor.)
American Business Machines Corporation. (See Von Pein, Edward J., assignor.)
American Can Company. (See Holloway, Joseph C., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Forging & Socket Company. (See McGregor, Thomas A., assignor.)
American Forging & Socket Company, The. (See McGregor, T. A., and Rhodes, assignors.)
American Fork & Hoe Company, The. (See Fifield, Albert F., assignor.)
American Magnesium Metals Corporation. (See Hansgirg, Fritz, assignor.)
American Pouch Corporation. (See Klein, Louis M., assignor.)
American Radiator & Standard Sanitary Corporation. (See Terry, Matson C., assignor.)
American Railway Products Co. (See Cooke, George T., assignor.)
American Steel and Wire Company of New Jersey. (See Capouch, Myron E., assignor.)
American Stove Company. (See Moecker, H., Jr., Lotter, Scholander, and Brumbaugh, assignors.)
American Stove Company. (See Stockstram, A., and Brodbeck, assignors.)
American Telephone and Telegraph Company. (See Bixel, E. C., and Brown, assignors.)
American Telephone and Telegraph Company. (See Moody, D. L., Newby, and Shipley, assignors.)
Anaconda Wire & Cable Company. (See McConnell, Edmond S.)
Anchor Steel & Conveyor Company. (See Waalkes, Gerrit, assignor.)
Ancrum, Robert W., Stockton-on-tees, and A. G. Oppegaard, Billingham, England, assignors, by mesne assignments, to Titan Company Inc., Wilmington, Del. Manufacture of titanium pigments. 2,161,755; June 6.
Anderson, James A., Walla Walla, Wash. Drill head. 2,161,000; June 6.
Anderson, Craston C., West Palm Beach, Fla. Gunstock. 2,161,498; June 6.
Anderson, Elmer W., Leonia, N. J. Nasal filter device. 2,161,607; June 6.
Anderson, Erich K., Trenton, N. J. Belt pulley. 2,161,270; June 6.
Anderson, Harod A., Los Angeles, Calif. Bolt. 2,161,271; June 6.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Cutting or welding machine. 2,161,121; June 6.
Anderson, Lural J., South Bend, Ind., assignor to Dearborn Chemical Company, Chicago, Ill. Treating waste spray particles. 2,161,122; June 6.
Anderson, Martin E. (See Ratner, A., and Anderson.)
Anderson, Matt A., Dallas, Wis. Fountain pen cap latching device. 2,161,691; June 6.
Andre, Gustaf E., Richmond, Ind., assignor to Belden Manufacturing Company, Chicago, Ill. Electrical connector. 2,161,606; June 6.
Andre, Gustaf E., Richmond, Ind., assignor to Belden Manufacturing Company, Chicago, Ill. Electrical terminal. 2,161,692; June 6.
Andrews, George S., Rye, N. Y. Chronometric tachometer. 2,160,813; June 6.
Anke, Rudolph, Reading Park, Reading, assignor to Textile Machine Works, Wyomissing, Pa. Yarn carrier rod stop mechanism for straight knitting machines. 2,161,240; June 6.
Aqua-Electric Corporation. (See Negus, Robert L., assignor.)
Arens, Charles A., Chicago, Ill. Holding or locking device. 2,161,661; June 6.
Arnesen, Walter A. (See Schwartz, Louis H., assignor.)
Arning, Paul. (See Brinkman, Ewald.)
Arutunoff, Armais, assignor to Reda Pump Company, Bartlesville, Okla. Shipping box. 2,161,402; June 6.
Arveson, Maurice H., assignor to Standard Oil Company, Chicago, Ill. Processing hydrocarbon oils. 2,160,814; June 6.
Ashcroft, Ethel P., assignor of one-eghth to H. T. McGarry, one-fortieth to R. M. Burns, and one-fourth to L. D. Latting, Colorado Springs, Colo. Clothesline fastening device. 2,161,499; June 6.
Ashworth, John W., New York, N. Y. Safety razor. 2,161,403; June 6.
Askania-Werke A. G. (See Heck, L., and Schwarz, assignors.)
Askania-Werke A. G. vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenar. (See von Manteuffel, Gert Z., assignor.)
Associated Electric Laboratories, Inc. (See Wright, C. O., and Peterson, assignors.)
Associated Patentees, Inc. (See Borton, Alwyn E., assignor.)
Atlantic Refining Company, The. (See Goldsmith, Lester M., assignor.)
Atlantic Refining Company. (See Schreiber, William, assignor.)
Autogiro Company of America. (See de la Cierva, Juan, assignor.)
Automatic Shifters, Inc. (See Hey, Henry W., assignor.)
Avery, Clarence W., and J. Vehko, Detroit, Mich., assignors to The Murray Corporation of America. Pad forming apparatus. 2,161,123; June 6.

Babcock & Wilcox Company, The. (See Fletcher, James, assignor.)
Babcock & Wilcox Company, The. (See Tomlinson, G. H., and (Wilcoxson, assignor).)
Babcock & Wilcox Company, The. (See Wilcoxson, L. S., and Ely, assignors.)
Babicz, George A., assignor to Gaw–O'Hara Envelope Co., Chicago, Ill. Sheet-feeding mechanism. 2,161,124; June 6.
Bacon, Henry M., assignor to The Dayton Rubber Mfg. Company, Dayton, Ohio. Loom picker. 2,161,662; June 6.
Baehr, Hans, and W. Wenzel, Leuna, and H. Mengdehl, Huels, Westphalia, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Removal of hydrogen sulphide and hydrocyanic acid and of readily volatile liquids from gases. 2,161,663; June 6.
Baier, John J., Flushing, N. Y. Speed regulating device for prime movers. 2,161,693; June 6.
Baker, Harry J., Indianapolis, Ind., and W. F. Mesinger, Mount Vernon, N. Y., assignors to Oxweld Acetylene Company. Fluid pressure regulator. 2,161,544; June 6.
Baker, Hiram L., Leland, Ill. Trailer coupling. 2,160,815; June 6.
Baldwin Company, The. (See Day, Wilbur M., assignor.)
Ball, John M., Pelham, assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Rubber compounding. 2,161,445; June 6.
Balle, Gerhard. (See Steindorff, A., Balle, Horst, and Schild.)
Banks, George B., Chelmsford, England, assignor to Radio Corporation of America. Electron discharge device. 2,161,272; June 6.
Barber-Colman Company. (See Nobling, Martin N., assignor.)
Bariffi, Herbert F., Hamden, Conn., assignor to General Electric Company. Washing machine. 2,161,608; June 6.
Barnes, Aldrich B., North Attleboro, assignor to The Mason Box Company, Attleboro Falls, Mass. Container. 2,160,816; June 6.
Barnes, William A., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing Company. Construction of electrical appliances. 2,161,446; June 6.
Barnes, William B., Indianapolis, assignor to Barnes Motor Development Company, Muncie, Ind. Overspeed and freewheeling drive with automatic lockout. 2,160,817; June 6.
Barnes Motor Developments Company. (See Barnes, William B., assignor.)
Batchelder, Nelson A., West Barrington, R. I. Feed supply for drafting frames. 2,161,664; June 6.
Bates, Mortimer F., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Quick setting means for directional gyroscopes. 2,161,241; June 6.
Battelle Memorial Institute. (See Sullivan, John D., assignor.)
Bauer, Anthony E. (See Benson, R. F., Bauer, and Jayet.)
Becker, Franz A. (See Rogowski, W., and Becker.)
Becker, Helmut, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Transmission mechanism for photographic cameras. 2,160,818; June 6.
Becker, Stephen P., Poughkeepsie, N. Y. Gripping jaw for wire clamps. 2,161,694; June 6.
Beckett, Reginald W., Rocky River, assignor to Cleveland Steel Products Corp., Cleveland, Ohio. Oil burning apparatus. 2,161,220; June 6.
Beckett, Reginald W., Rocky River, assignor to Cleveland Steel Products Corp., Cleveland, Ohio. Oil burning apparatus. 2,161,221; June 6.
Beckett, Reginald W., Elyria, Ohio, assignor to Cleveland Steel Products Corp. Oil burning apparatus. 2,161,222; June 6.
Becwar, Rudolph A., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Automobile aerial. 2,161,736; June 6.
Bedol, Harry A., Cleveland, Ohio. Shield for registers. 2,161,001; June 6.
Begun, Semi, New York, N. Y., assignor to C. Lorenz Aktiengeselischaft, Berlin-Tempelhof, Germany. Electromagnetic recording arrangement. 2,167,273; June 6.
Behrend, Victor, Neponsit, N. Y. Toy balloon. 2,161,274; June 6.
Behrens, Walter A., New York, assignor to Ideal Fastener Corporation, Brooklyn, N. Y. Slider. 2,160,819; June 6.
Belden Manufacturing Company. (See Andre, Gustaf E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bieling, Carl A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Collis, R. E., and Newsom, assignors.)
Bell Telephone Laboratories, Incorporated. (See Lakatos, Emory, assignor.)
Bell Telephone Laboratories, Incorporated. (See Vieth, L., Wiebusch, and Yenzer, assignors.)
Beltz, Carl E. (See Davis, Albert A., assignor.)
Bendix Aviation Corporation. (See Heintz, Ralph M., assignor.)
Benello, Egidio M., New York, assignor to Manifold Supplies Company, Brooklyn, N. Y. Moistening device for duplicating machines. 2,161,554; June 6.
Bendix Aviation Corporation. (See Rylsky, Gregory V., assignor.)
Bener, Christian, Chur, assignor to the firm Raduner & Co., A. G., Horn, Switzerland. Production of textile fabrics in formed printed patterns. 2,161,223; June 6.
Benner, Russell E., New York, assignor, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y. Construction of cutter heads. 2,160,952; June 6.
Bensen, Bernt M., Brooklyn, N. Y. Triangle solving instrument. 2,160,820; June 6.
Benson, Edward B., assignor to The Benson Mfg. Co., Kansas City, Mo. Ice inhibiting assembly for airplanes. 2,161,242; June 6.
Benson Mfg. Co., The. (See Benson, Edward B., assignor.)
Benson, Robert F., A. E. Bauer, and A. C. Jayet, San Jose, Calif. Speed indicating means. 2,160,821; June 6.
Bentley, William T. (See Cerny, Joseph A., assignor.)
Berbeles, Tom, Canton, Ohio. Rotary-meat-roasting machine. 2,160,953; June 6.
Berghoff, Ivar B., Stockholm, Sweden. Manufacture of articles molded from cellulosic fibrous pulp. 2,161,224; June 6.
Bergmann, Ernst R., assignor to Goodman Manufacturing Company, Chicago, Ill. Feeding head for reciprocating or shaker conveyers. 2,161,002; June 6.
Berman, Aaron R., Brooklyn, N. Y. Composite lubrication seal. 2,161,003; June 6.
Besemann, Franz. (See Jaeger, M., and Besemann.)
Betts, Earl W., Tampa, assignor of one-fourth to R. M. Hosmer and one-fourth to W. B. Clark, Bartow, Fla. Utility shelf for automobiles. 2,161,275; June 6.
Biele, Harry M., Hollis, N. Y. Photographic device. 2,161,004; June 6.
Bieling, Carl A., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,161,005; June 6.
Bigelow, George E., Southgate, and A. A. Weis, assignors of one-half to Pacific Pump Works, Huntington Park, Calif. Rotary pump for hot fluids. 2,161,695; June 6.
Bigelow, Harry K., Columbus, Ohio. Motor vehicle brake shoe refinisher. 2,161,125; June 6.
Bigelow, Leroy E., Glendale, Calif. Device for dry separation of precious metals from finely divided material. 2,160,822; June 6.
Bigley, Harold H., Chatham, N. J., assignor of twenty-five per cent to J. N. Catlow, New York, N. Y. Apparatus for photography and projection. 2,161,126; June 6.
Bird, Byron M., Columbus, and M. E. Haworth, Arlington, Ohio, assignors to The Jeffrey Manufacturing Company. Process and apparatus for treatment of mineral materials. 2,161,500; June 6.
Bishop, George E., Cleveland Heights, Ohio. Seat cover. 2,161,448; June 6.
Bishop, Richard E., South Orange, N. J., assignor to A. C. Horn & Company, Long Island City, N. Y. Obtaining electrical insulation and the product. 2,161,447; June 6.
Bixby, Walter. (See Hathaway, E. F., and Bixby.)
Bixel, Edward C., West Orange, and H. D. Brown, Westfield, N. J., assignors to American Telephone and Telegraph Company. Cabscope. 2,161,006; June 6.
Bixler, Chauncy R., Kansas City, Mo. Door latch for automobiles. 2,161,007; June 6.
Black, Harold S., Elmhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control of electromagnets. 2,160,823; June 6.
Blacker, Latham V. S., Coats House, near Fittleworth, England. Ammunition magazine. 2,161,696; June 6.
Blackmon, John O., Oilfields, Calif. Coupling. 2,161,501; June 6.
Blake, Reginald, administrator, et al. (See de la Cierva, John.)
Blanchard, Loring W., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing cellulose for esterification. 2,161,555; June 6.
Blau, Ludwig W., and L. Statham, Houston, Tex., assignors to Standard Oil Development Company. Electric earth transient in geophysical prospecting. 2,160,824; June 6.
Blaw-Knox Company. (See Ehrhardt, George J., assignor.)
Blois, Robie K. (See Busby, A. H. W., and Blois, assignors.)
Blumenbaum, Louis G., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener applying implement. 2,161,449; June 6.
Blumenthal, Maurice, Brooklyn, and L. Casper, Richmond Hill, N. Y. Garbage incinerator system. 2,160,825; June 6.
Book Machine Company, The. (See Painter, Harry K., assignor.)
Bodine Corporation, The. (See Stahlhammer, Eric J., assignor.)
Boggild, Axel V., Trumbull, Conn., assignor to General Electric Company. Method and apparatus for making self-tapping screws. 2,161,610; June 6.
Boggild, Axel V., Trumbull, Conn., assignor to General Electric Company. Fastener. 2,161,611; June 6.
Bohland, Carl P., Watertown, S. Dak. Snow fence. 2,161,450; June 6.

Boldt, Werner F. (See Freeman, W. R., and Boldt.)
Bolek, Frank J., and T. S. Levis, assignor to J. I. Thompson, Chicago, Ill. Garment blocker. 2,161,451; June 6.
Bonn, Carl R. H., Glasgow, Scotland. Control device for variable speed gearing. 2,161,008; June 6.
Bonnett, John, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy elevated or trestle railroad. 2,161,276; June 6.
Borton, Alwyn E., South Orange, assignor to Associated Patentees, Inc., Ampere, N. J. Split cam. 2,161,243; June 6.
Bosch, Robert, Gesellschaft, mit beschränkter Haftung. (See Heinrich, H., Janssen, and Fiedler, assignors.)
Boston Wire Stitcher Company. (See Blumenbaum, Louis G., assignor.)
Boulton, George, deceased, by J. B. Boulton, executrix, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. 2,160,826; June 6.
Boulton, Jeannette B., executrix. (See Boulton, George.)
Bowen, Herbert C., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure braking system. 2,161,277; June 6.
Bowen, Herbert C., assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 2,161,278; June 6.
Bowen, Herbert C., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure system. 2,161,279; June 6.
Bowen, Merel S., assignors to Matthews Conveyor Company, Elwood City, Pa. Roller conveyer. 2,160,807; June 6.
Bowen, Merlin L., assignor to Universal Button Fastening & Button Company, Detroit, Mich. Attaching mechanism. 2,161,404; June 6.
Bowles, J. H., et al. (See Malcolm, Charles A., assignor.)
Bowman, Clarence B., Oakland, assignor to Oliver United Filters Incorporated, San Francisco, Calif. Filter. 2,161,127; June 6.
Boyd, David B. (See Hassard, William, assignor.)
Boyett, Jesse B. (See Rutland, Jesse E., assignor.)
Boyle, Robert B., assignor, by mesne assignments to Consolidated Carton, Inc., Chicago, Ill. Carton structure. 2,161,128; June 6.
Bradley, Dan T., Detroit, Mich., assignor to Harris Products Company, Akron, Ohio. Exhaust pipe and muffler support. 2,160,808; June 6.
Bradley, Eric H., Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Liquid dispensing apparatus. 2,161,756; June 6.
Bradshaw, Joe B., Stanford, Ky. Tool mounting. 2,161,665; June 6.
Brand, Samuel, Binghamton, assignor to International Business Machine Corporation, New York, N. Y. Card punching machine. 2,161,612; June 6.
Brantingson, Sigurd, Palisades Park, N. J., assignor to Francis Keil & Son, Inc. Door latch and striker construction. 2,161,757; June 6.
Bratton, Robert C. (See Ellis, G. T., and Bratton.)
Brave, Peter H., Los Angeles, Calif. Fabric protecting shoe for steam irons. 2,161,009; June 6.
Bray, William N. (See Lane, H., and Bray.)
Breerwood, Charles H., Narberth, and J. C. Williams, Catasauqua, Pa., assignors to Separation Process Company. Manufacture of cement. 2,161,010; June 6.
Breerwood, Charles H., Narberth, and J. C. Williams, Catasauqua, Pa., assignors to Separation Process Company. Manufacture of cement. 2,161,011; June 6.
Breitenstein, Charles J., and D. E. Hooker, assignors to R. T. Moloney, Chicago, Ill. Shooting-gallery game. 2,161,012; June 6.
Brenzinger, Julius, Fairfield, Conn. Work holder. 2,160,954; June 6.
Breza, Paul, Chesapeake City, Md. Pipe jack. 2,161,013; June 6.
Briggs, Wade. (See Milburn, R., and Briggs.)
Brinkmann, Ewald, Villigst, near Schwerte, and P. Arning, Iserlohn, Germany. Arrangement for working the peripheral surfaces of grinding disks and the like. 2,161,609; June 6.
Britton, Edgar C., C. W. Davis, and F. L. Taylor, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride co-polymers. 2,160,940; June 6.
Britton, Edgar C., C. W. Davis, and F. L. Taylor, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride co-polymers. 2,160,941; June 6.
Britton, Edgar C., C. W. Davis, and F. L. Taylor, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride co-polymers. 2,160,942; June 6.
Britton, Edgar C., and C. W. Davis, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride co-polymers. 2,160,943; June 6.
Britton, Edgar C., and F. L. Taylor, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride co-polymers. 2,160,946; June 6.
Brodbeck, Almer H. (See Stockstrom, A., and Brodbeck.)
Broeg, Willy, Leverkusen-I. G. Werk, and H. Morschel, Cologne Deutz, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Hydroxybenzocarbazole compounds. 2,161,697; June 6.
Brook, Marvin H., Chicago, Ill. Game. 2,161,129; June 6.
Brooker, Leslie G. S., and R. H. Van Dyke, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Merocyanines and preparation thereof. 2,161,331; June 6.

Brooker, Leslie G. S., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Thiazolinotricarbocyanine dye. 2,161,332; June 6.
Brossman, Jacob R. (See Rankin, W. K., and Brossman.)
Brown, Howard D. (See Bixel, E. C., and Brown.)
Brown, John W., Baltimore, Md., assignor to Continental Oil Company, Ponca City, Okla. Contacting apparatus. 2,161,405; June 6.
Brown, William, Irvington, N. J. Oven for making artists' charcoal. 2,161,014; June 6.
Brown, William T., Northland, Wellington, assignor to Fibre Processing Limited, Wellington, New Zealand. Fiber finishing machine. 2,161,502; June 6.
Brumbaugh, Isaac V. (See Moecker, H., Jr., Lotter, and Scholander, and Brumbaugh.)
Brunner, Walter. (See Zerweck, W., and Brunner.)
Bubb, Peter L. (See Ensor, C. W., and Bubb.)
Buckley John P., Washington, D. C. Accounting, checking, and punch-recording system. 2,161,280; June 6.
Budd Wheel Company. (See Eksergian, Carolus L., assignor.)
Bump Pump Company. (See Thomson, Leroy A., assignor.)
Burchenal, Charles H., Glendale, assignor to The Cambridge Tile Manufacturing Company, Cincinnati, Ohio. Cabinet for displaying building tile. 2,161,130; June 6.
Burger, George F., Detroit, Mich. Degreasing and flushing device. 2,161,131; June 6.
Burger, Joseph, Forest Hills, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel for shoes. 2,161,452; June 6.
Burke, James P., Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich. Cylinder and piston construction. 2,161,132; June 6.
Burke, James P., Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich. Cylinder head construction. 2,161,133; June 6.
Burke, James P., Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich. Internal combustion engine chamber. 2,161,244; June 6.
Burndy Engineering Co. (See Dibner, Abraham B., assignor.)
Burnley, Robert C., Louisville, Ky. Animal trap. 2,160,809; June 6.
Burns, Ruth M., et al. (See Ashcroft, Ethel P., assignor.)
Burroughs Wellcome & Co. (U. S. A.) (See Reiner, Laszlo, assignor.)
Burton-Allen Gold Reclaiming Corporation. (See Burton, Harry H., assignor.)
Burton, Harry H., Whitman, Mass., assignor to Burton-Allen Gold Reclaiming Corporation, Wilmington, Del. Metals separation. 2,160,955; June 6.
Busby, Arthur H. W., and R. K. Blois, Trail, British Columbia, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada. Automatic fluid analyzer. 2,161,453; June 6.
Buschbeck, Werner. (See Scharlau, H., Runge, Buschbeck, and Fritz.)
Bush, A. G. (See Criner, Harry J., assignor.)
Bush, Edward R., Lemont, Ill., assignor to Chadeloid Chemical Company, New York, N. Y. Stains and related compositions. 2,161,503; June 6.
Buxton, Warner R., Longmeadow, Mass. Memorandum book. 2,161,015; June 6.
Cain, Gordon A., and J. B. Chatelain, assignors to Freeport Sulphur Company, Freeport, Tex. Lowering sulphur viscosity and resulting nonviscous sulphur compound. 2,161,245; June 6.
Calco Chemical Co., Inc. (See Crossley, Moses L., assignor.)
Calco Chemical Co. (See Klipstein, Kenneth H., assignor.)
Calco Chemical Company, The. (See Shive, R. A., Coffee, and Kienle, assignors.)
Calvert, William C., Chicago, Ill., assignor to Wingfoot Corporation, Wilmington, Del. Producing rubber hydrochloride films. 2,161,454; June 6.
Calvin Manufacturing Corporation. (See Becwar, Rudolph A., assignor.)
Cambridge Tile Manufacturing Company, The. (See Burchenal, Charles H., assignor.)
Campbell, Clinton L., Noroton Heights, assignor to The Viscol Company, Stamford, Conn. Material for and cleaning leather. 2,161,504; June 6.
Capouch, Myron E., Evanston, Ill., assignor to The American Steel and Wire Company of New Jersey. Expansion joint. 2,161,333; June 6.
Carbide and Carbon Chemicals Corporation. (See Doolittle, Arthur K., assignor.)
Carbide and Carbon Chemicals Corporation. (See Perkins, Granville A., assignor.)
Carbide and Carbon Chemicals Corporation. (See Rugeley, E. W., Feild, and Conlon, assignors.)
Cardox Corporation . (See Harris, Allyn, assignor.)
Carlson, John E., Forestville, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electrical terminal. 2,161,246; June 6.
Carr, Clifford H., Kansas City, Mo. Spray nozzle. 2,161,016; June 6.

Carrier Corporation. (See Pritchard, William J., assignor.)
Carroll, Walter P., Cicero, and D. S. Kondrat, Chicago, Ill., assignors to National Lead Company, New York, N. Y. Dip-soldering. 2,161,556; June 6.
Carswell, Thomas S., Kirkwood, assignor to Monsanto Chemical Company, St. Louis, Mo. Phenol stabilization. 2,161,772; June 6.
Carter, Mitchell, Trenton, N. J., assignor, by mesne assignments, to Rubber Products, Inc., Chicago, Ill. Producing molded rubber articles. 2,161,281; June 6.
Carter, Philip M. (See Reilly, F. C., Carter, and Linsley.)
Cartmill, Loyd E. (See Torburn, Gustav P., assignor.)
Carwadine, George, Bath, assignor of one-third to Herbert Terry & Sons Limited, Redditch, England. Spring-controlled mechanism. 2,161,334; June 6.
Casper, Louis. (See Blumenthal, M., and Casper.)
Cassé, Marcel, Essonnes, France. Hat brim curling machine. 2,161,017; June 6.
Catlow, James N. (See Bigley, Harold H., assignor.)
Celanese Corporation of America. (See Dreyfus, C., and Whitehead, assignors.)
Celluloid Corporation. (See Piperoux, Rene P., assignor.)
Central National Bank and Trust Company, The, et al., executors. (See Hartley, Arthur J.)
Cerny, Joseph A., Cleveland, assignor to W. T. Bentley, Cleveland Heights, Ohio. Thermostatic valve mechanism. 2,161,773; June 6.
Chadeloid Chemical Company. (See Bush, Edward R., assignor.)
Champagne Paper Corporation. (See Jones, Edwin P., assignor.)
Chapman, Francis B., Los Angeles, Calif. Agitator. 2,161,134; June 6.
Chappell, Robert L., El Campo, Tex. Well flow and test tool. 2,161,135; June 6.
Charrier, George M., Oaklyn, N. J., assignor to Radio Corporation of America. Oscillation generating and modulating device. 2,161,406; June 6.
Chase Brass & Copper Co. Incorporated. (See Dempsey, M. J., and Reher, assignors.)
Chatelain, John B. (See Cain, G. A., and Chatelain.)
Chenault, William B. (See Miller, A. E., and Chenault.)
Cheney Brothers. (See Cheney, F. D., and Learned, assignors.)
Cheney, Frank D., New York, N. Y., and J. Learned, assignors to Cheney Brothers, Manchester, Conn. Decoration of textile materials. 2,160,827; June 6.
Cheney, Frank D., and J. Learned, assignors to Cheney Brothers, Manchester, Conn. Decorated textile fabric. 2,160,828; June 6.
Cherry, Carl W., Carmel, Calif. Method and device for auxiliary transmission for telephone receivers. 2,160,829; June 6.
Cherry, Thomas E., Cambridge, Mass. Scraping device. 2,161,335; June 6.
Cheesman, Richard D., assignor to Traylor Engineering and Manufacturing Company, Allentown, Pa. Air control for kiln-cooler assemblies. 2,160,956; June 6.
Christensen, Martin, Wauwatosa, Wis. Method of and mechanism for opening book signatures and the like. 2,160,830; June 6.
Christiansen, Walter G., Glen Ridge, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Stable solutions of sulphanilamide. 2,161,407; June 6.
Cincinnati Grinders Incorporated. (See Haas, Frederick S., assignor.)
Cincinnati Traction Building Company, The. (See Schoepf, T. H., and Ritchie, assignors.)
Cittell, Harry E., Eggertsville, N. Y. Turn signal. 2,161,336; June 6.
Clark, John J., Flint, Mich. Motor vehicle aerial. 2,161,698; June 6.
Clark, Joseph B., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Apparatus for taking fluid samples. 2,161,557; June 6.
Clark, Marcus C., et al. (See Neuschastle, Edward, assignor.)
Clark, Walton B., et al. (See Betts, Earl W., assignor.)
Clausen, Henry, et al., executor. (See Strauss, Joseph B., assignor.)
Clemens, John A., Providence, R. I., assignor to Davol Rubber Company. Shipping and display container. 2,161,018; June 6.
Cleveland Crane & Engineering Company, The. (See Rosenthal, Morris G., assignor.)
Cleveland Graphite Bronze Company. (See Swartz, Carl E., assignor.)
Cleveland Steel Products Corp. (See Beckett, Reginald W., assignor.)
Cleveland Steel Products Corporation. (See Smith, W. J., and Slaght, assignors.)
Clifford, Albert M., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Concentration of latex. 2,161,455; June 6.
Cloutier, Arthur N. (See Lawson, R. H., and Cloutier.)
Coan, Nicholas C., Houston, Tex. Rice canning process. 2,161,119; June 6.
Coffarom Aktiengesellschaft. (See Freudl, Eligius, assignor.)
Coffee, Joseph E. (See Shive, R. A., Coffee, and Kienle.)
Coffing, Frederick W., Danville, Ill. Can washing apparatus. 2,161,613; June 6.
Colby, Mark R., Seattle, Wash., O. D. Colvin, Oconomowoc, Wis., and W. H. Hahne, New York, N. Y.; said Colvin and said Hahne assignors to said Colby as trustee. Method of and apparatus for preventing damage to cargo in cargo compartments. 2,160,831; June 6.
Coleman, Gerald H., and G. V. Moore, assignor to The Dow Chemical Company, Midland, Mich. Ethers of tertiary-alkyl phenylphenols. 2,161,558; June 6.
Coleman, Gerald H., and R. W. Sapp, assignors to The Dow Chemical Company, Midland, Mich. Polymerized di-(2-chloroallyl) ether. 2,161,737; June 6.
Coleman, Gerald H., and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Stabilization of vinylidene chloride. 2,160,944; June 6.
Colin, David H. (See Wachs, B., and Colin.)
Collis, Raymond E., Summit, N. J., and J. B. Newsom, Great Neck, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,161,456; June 6.
Colvin, Oliver D. (See Colby, M. R., Colvin, and Hahne.)
Commercial Solvents Corporation. (See Vanderbilt, Byron M., assignor.)
Commonwealth Edison Company. (See Johnstone, H. F., and Singh, assignors.)
Cone Automatic Machine Company. (See Miller, Carroll E., assignor.)
Conlon, John F. (See Rugeley, E. W., Feild, and Conlon.)
Connecticut Web and Buckle Company, The. (See Oliver, Lee, assignor.)
Conradson, Prentice, Evansville, Wis. Attached jack for vehicles. 2,161,136; June 6.
Conroy, James J., et al. (See Doherty, Frank J., assignor.)
Consolidated Carton, Inc. (See Boyle, Robert B., assignor.)
Consolidated Mining & Smelting Company of Canada, The. (See Busby, A. H. W., and Blois, assignors.)
Consortium für Elektrochemische Industrie, G. m. b. H. (See Mugdan, M., and Wimmer, assignor.)
Construction Products Corporation. (See Gregg, R. G., and Wirth, assignors.)
Contant, Peter M., Maywood, N. J., assignor to Neckar Company, Inc. Water treatment. 2,160,832; June 6.
Continental Oil Company. (See Brown, John W., assignor.)
Continental Oil Company. (See Rees, Frank H., assignor.)
Continental Steel Corporation. (See Hill, J. H., and Theiss, assignors.)
Conzelman, Joseph H., assignor to Alabama Asphaltic Limestone Company, Birmingham, Ala. Cold laid rock asphalt paving mixture and method of making. 2,160,833; June 6.
Cooke, George T., Norwalk, assignor to American Railway Products Co., Inc., Darien, Conn. Split bushing. 2,161,559; June 6.
Cooke, Ralph, South Belmar, N. J. Electric lighting socket shock insulator. 2,161,774; June 6.
Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Liquid circulating device. 2,161,408; June 6.
Corbett, Sewell M., Fort Bragg, N. C. Fungicidal soap. 2,160,834; June 6.
Cordova, Joaquin P., El Paso, Tex. Stiffening truss. 2,161,337; June 6.
Cowen, Rawson R., assignor to New Jersey Rubber Company, Taunton, Mass. Weather stripping. 2,161,666; June 6.
Cowperthwaite, Thomas. (See Rafferty, J., and Cowperthwaite.)
Coy, Joseph A., Tulsa, Okla. Heat exchanger. 2,161,019; June 6.
Creamery Package Mfg. Company, The. (See Walstrom, Axel M., assignor.)
Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Bread slicing machine. 2,160,957; June 6.
Critchlow, Francis B., Los Angeles, Calif. Indicating device for automobiles. 2,161,457; June 6.
Critchlow, William, New Castle, Pa. Table attachment for automobiles. 2,160,958; June 6.
Crook, Richard H., trustee. (See Wallace, Archibald L., assignor.)
Crooks, William H., Kenton, Ohio. Poultry blood testing table. 2,161,020; June 6.
Crossley, Moses L., Plainfield, assignor to Calco Chemical Co. Inc., Bound Brook, N. J. Lubricating composition. 2,161,560; June 6.
Crowell, Erd V., Los Angeles, Calif. Apparatus for cementing wells. 2,161,282; June 6.
Crowell, Erd V., Glendale, Calif. Apparatus for cementing wells. 2,161,283; June 6.
Crowell, Erd V., Glendale, Calif. Apparatus for cementing wells. 2,161,284; June 6.
Crumrine, Chester W., assignor to Eastman Kodak Company, Rochester, N. Y. Shutter rebound check. 2,161,338; June 6.
Cumberland Case Company. (See McKenney, Fred Y., assignor.)
Cumberland Case Co. (See Swingle, Donald R., assignor.)
Cunningham, James M., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Electrical device. 2,161,614; June 6.

Cutting, Charles D., Detroit, Mich., assignor to The Cutting Sales & Engineering Corporation. Spline shaft construction. 2,161,137; June 6.
Cutting, Charles D., Detroit, Mich., assignor to The Cutting Sales & Engineering Corporation. Spline shaft. 2,161,138; June 6.
Cutting Sales & Engineering Corporation. (See Cutting, Charles D., assignor.)
Dalton, E. R., et al. (See Dalton, Frederick C., assignor.)
Dalton, Frederick C., Portland, assignor of one-fourth to W. H. Darby, Salem, and one-fourth to E. R. Dalton, Portland, Oreg. Gasoline save and vapor lock remover. 2,161,409; June 6.
Dalton, Schuyler N., Hungtington Terrace, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Container closure and producing the same. 2,161,561; June 6.
Danel, Pierre F., assignor to Ateliers Neyert-Beyller & Piccard-Pictet, Grenoble, France. Automatic gate. 2,160,959; June 6.
Darby, W. H., et al. (See Dalton, Frederick C., assignor.)
Davids, Robert B., Baltimore, Md. Combined tooth brush and masseur. 2,160,835; June 6.
Davids, Robert B., Baltimore, Md. Combined tooth brush and masseur. 2,160,836; June 6.
Davis, Albert A., Alliance, assignor of one-half to C. E. Beltz, Limaville, Ohio. Radial draft milling apparatus. 2,161,505; June 6.
Davis, Clyde W. (See Britton, E. C., and Davis.)
Davis, Clyde W. (See Britton, E. C., Davis, and Taylor.)
Davis, Wilbur E., and W. Schonwald, assignors to Middleby-Marshall Oven Co., Chicago, Ill. Reel for tray ovens. 2,161,738; June 6.
Davol Rubber Company. (See Clemens, John A., assignor.)
Day, Howell, New Market, N. J. Small scale model railroad trackage and method of assembly. 2,161,562; June 6.
Day, Wilbur M., assignor to The Baldwin Company, Cincinnati, Ohio. Rim construction for pianos. 2,161,139; June 6.
Dayton Rubber Mfg. Company, The. (See Bacon, Henry M., assignor.)
Dearborn Chemical Company. (See Anderson, Lural J., assignor.)
Dearborn, Richard J., Summit, N. J., assignor to The Texas Company, New York, N. Y. Treating hydrocarbon oil. 2,161,247; June 6.
De Boer, Jan H., and M. C. Teves, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Luminescent screen. 2,161,458; June 6.
De Caracena, Ray K., Bronx, N. Y. Leather jewelry. 2,161,506; June 6.
Decatur Associates. (See Jepson, James A., assignor.)
Decin, Katherine V. (See Dubosclard, Paul P. M., assignor.)
De Kremer, Mily, London, England. Synchronizing clutch mechanism. 2,161,285; June 6.
De la Cierva, Juan, deceased, Aldwych, London, by J. Josselyn, London, and R. Blake, Aldwych, London, England, administrators, assignors, by mesne assignments, to Autogiro Company of America. Blade for aircraft sustaining rotors. 2,161,699; June 6.
Delamere Company. (See Goodman, Abraham, assignor.)
De Lin, Martin, assignor to Holland Furnace Company, Holland, Mich. Combustion apparatus. 2,161,021; June 6.
Delvaux, Jean L., Paris, France, assignor to General Electric Company. Control for a signaling system. 2,161,286; June 6.
De Marco, Louis, Cleveland, Ohio. Combined washing and rinsing machine. 2,161,022; June 6.
Demay, Peter P., Downers Grove, Ill. Winding machine. 2,161,459; June 6.
Demay, Peter P., Downers Grove, Ill. Reciprocating mechanism for winding machines. 2,161,460; June 6.
Demmitt, Harry. (See Schwarzenbach, C., and Demmitt.)
De Motte, Maurice P., Indianapolis, Ind., assignor to Oxweld Acetylene Company. Hydraulic back-pressure arrester. 2,161,700; June 6.
Dempsey, Michael J., and F. W. Reher, assignors to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Drawbench. 2,161,023; June 6.
Denison, Frederick S., and C. G. Kronmiller, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,161,248; June 6.
Denver Fire Clay Company, The. (See Lewis, Robert, assignor.)
De Rose, Alfred F., Bridgeport, Conn. Ruffling attachment for sewing machines. 2,161,410; June 6.
Des Roches, Philip W., Detroit, Mich. Refrigerating unit. 2,161,667; June 6.
Detracolar, Ltd. (See Allison, Donald K., assignor.)
Detroit Harvester Company. (See Nicholson, Stanley W., assignor.)
Detrick, Stanley R., Gordon Heights, Wilmington, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of copper phthalocyanine. 2,160,837; June 6.
De Voe, Albert H., Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 2,161,140; June 6.
De Voe, Albert H., Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser mechanism for sewing machines. 2,161,141; June 6.
De Voe, Albert H., Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine needle-actuating mechanism. 2,161,142; June 6.
Dibner, Abraham B., now by judicial change of name B. Dibner, Peekskill, assignor to Burndy Engineering Co., Inc., New York, N. Y. Terminal screw lug. 2,161,249; June 6.
Dibner, Bern. (See Dibner, Abraham B.)
Dickey, Joseph B. (See McNally, J. G., and Dickey.)
Dieterle, Walter, Dessau-Ziebigk in Anhalt, R. Walter, Wolfen Kreis Bitterfeld, Germany, and H. Dürr, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Cyanine dye. 2,161,339; June 6.
Dietrich, Melvin A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant. 2,161,615; June 6.
Dimick, Daniel B., Newton, assignor to Dimick-Mosher Products Company, Boston, Mass. Sanding machine. 2,161,701; June 6.
Dimick-Mosher Products Company. (See Dimick, Daniel B., assignor.)
Dinstbir, Howard J., Butler, Pa. Trimming for license plates. 2,160,960; June 6.
Disbrow, Clarkson A., New Rochelle, assignor to Poor & Company, New York, N. Y. Insulated rail joint. 2,161,340; June 6.
Distillation Products, Inc. (See Hickman, Kenneth C. D., assignor.)
Dixon, Joseph, Crucible Company. (See Pipi, Michael, assignor.)
Doe, Thomas B., New York, N. Y., E. L. Rose, Watertown, and C. E. Grosser, assignors to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,161,143; June 6.
Doering, Charles, and W. K. Teller, assignor to H. H. Doering, Chicago, Ill. Cheese product and process of plasticizing. 2,161,401; June 6.
Doering, Henry H. (See Doering, C., and Teller, assignors.)
Doherty, Frank J., assignor of three-tenths to J. J. Conroy and two-tenths to L. G. Nagler, Superior, Wis. Clothesline fastener. 2,161,461; June 6.
Dollinger, Lewis L., assignor to Staynew Filter Corporation, Rochester, N. Y. Fan. 2,161,027; June 6.
Dominion Electrical Manufacturing Company. (See Barnes, William A., assignor.)
Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Coated hard rubber article. 2,161,024; June 6.
Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Coating composition. 2,161,025; June 6.
Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Light stabilizer for vinyl resins. 2,161,026; June 6.
Doran Bros., Inc. (See Schultze, Paul, assignor.)
Doran, John H., Scotia, N. Y., assignor to General Electric Company. Elastic fluid turbine arrangement. 2,161,617; June 6.
Dorman, Gerson, Baltimore, Md. Cord holder. 2,160,961; June 6.
Dorr Company, The. (See Dorr, John V., assignor.)
Dorr, John V., Westport, Conn., assignor to The Dorr Company, Inc., New York, N. Y. Sedimentation. 2,160,838; June 6.
Doty, Charles R., Binghamton, and K. R. Schneider, Endicott, N. Y., and A. C. Holt, Princeton, N. J., assignors to International Business Machines Corporation, New York, N. Y. Clutch device. 2,161,563; June 6.
Douglas, William, Whitstable, England. Transfer sheet arrangement, particularly for use in typewriters or the like. 2,161,144; June 6.
Dow Chemical Company, The. (See Britton, E. C., and Davis, assignors.)
Dow Chemical Company, The. (See Britton, E. C., Davis, and Taylor, assignors.)
Dow Chemical Company, The. (See Britton, E. C., and Taylor, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Moore, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Sapp, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Zemba, assignors.)
Dow Chemical Company, The. (See Hirschkind, W., Pye, and Thompson, assignors.)
Dow Chemical Company, The. (See Hunter, Ralph M., assignor.)
Dow Chemical Company, The. (See Reilly, John H., assignor.)
Dow Chemical Company, The. (See Reilly, J. H., and Russell, assignors.)
Dow Chemical Company, The. (See Reilly, J. H., and Wiley, assignors.)
Dow Chemical Company, The. (See Reinhardt, Robert C., assignor.)
Dow Chemical Company, The. (See Wiley, Ralph M., assignor.)

Dow Chemical Company, The. (See Wiley, R. M., Alquist, and Slagh, assignors.)
Dravo Corporation. (See Miller, J. S., and Rhoads, assignors.)
Dreyer, John F., Jr., Brooklyn, N. Y., assignor to Radio Corporation of America. Radio receiving system. 2,161,616; June 6.
Dreyfus, Camille, New York, N. Y., and W. Whitehead, Cumberland, Md., assignors to Celanese Corporation of America. Making textile materials. 2,160,839; June 6.
Dreyfus, Henry, London, England. Thermal dehydration of aliphatic acids. 2,160,840; June 6.
Dreyfus, Henry, London, England. Thermal dehydration of aliphatic acids. 2,160,841; June 6.
Dreyfus, Henry, London, England. Thermal dehydration of aliphatic acids. 2,160,842; June 6.
Dr. ing. h. c. F. Porsche, K.-G. (See Rabe, Karl, assignor.)
Dubosclard, Paul P. M., assignor to K. V. Deem, Buffalo, N. Y. Conduit cleaner. 2,161,028; June 6.
Duerr, Ludwig, assignor to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany. Water ballast device for aircraft. 2,161,739; June 6.
Dunham, George W., Westport, Conn., assignor to General Electric Company. Washing machine. 2,161,618; June 6.
Dunham, George W., Westport, Conn., assignor to General Electric Company. Washing machine. 2,161,619; June 6.
Dunlop Rubber Company. (See Murphy, E. A., Round, and Norcross, assignors.)
Dunlop Rubber Company Limited. (See Murphy, E. A., Trobridge, and Ward, assignors.)
Du Pont, E. I., de Nemours & Company. (See Detrick, Stanley R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dietrich, Melvin A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Flenner, Albert L., assignor.)
Du Pont, E. I. de Nemours & Company. (See Freund, Ernst, assignor.)
Du Pont, E. I., de Nemours & Company. (See Holt, Harold S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lubs, Herbert A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Marks, Barnard M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Mathieu, H. W., and Rossander, assignors.)
Du Pont, E. I., de Nemours & Company. (See Rossander, Swanie S., assignor.)
Du Pree, Cornelius, Wyckoff, and A. Ackerman, Paterson, N. J., assignors to The Manhattan Shirt Company, New York, N. Y. Electric iron. 2,161,145; June 6.
Duran, John A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driver-adjusting means for fastening-inserting machines. 2,160,843; June 6.
Dürig, Alfred, assignor to Schweizerische Lokomotiv-und Maschinenfabrik, Winterthur, Switzerland. Reversing gearing comprising pressure fluid operated control coupling. 2,161,702; June 6.
Dürr, Hermann. (See Dieterle, W., Walter, and Dürr.)
Dwyer, William M., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator car door. 2,160,844; June 6.
Eason, Sidney L., Charleston, S. C. Roofing or surfacing material. 2,160,845; June 6.
Eastman, Fred C., Marblehead, and A. F. Pym, Swampscott, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 2,160,846; June 6.
Eastman, Harry T. (See Morrison, C. T., and Eastman.)
Eastman Kodak Company. (See Blanchard, Loring W., Jr., assignor.)
Eastman Kodak Company. (See Brooker, Leslie G. S., assignor.)
Eastman Kodak Company. (See Brooker, L. G. S., and Van Dyke, assignors.)
Eastman Kodak Company. (See Crumrine, Chester W., assignor.)
Eastman Kodak Company. (See Fairbanks, Henry N., assignor.)
Eastman Kodak Company. (See Fuller, Albert B., assignor.)
Eastman Kodak Company. (See Guenther, Edgar G., assignor.)
Eastman Kodak Company. (See Hopkins, Roy S., assignor.)
Eastman Kodak Company. (See Imray, H. H., Jr., and Robinson, assignors.)
Eastman Kodak Company. (See Jewett, Earold C., assignor.)
Eastman Kodak Company. (See Malm, C. J., and Emerson, assignors.)
Eastman Kodak Company. (See Martin, Louis D., assignor.)
Eastman Kodak Company. (See McLeod, John H., assignor.)
Eastman Kodak Company. (See McLeod, J. H., and Morse, assignors.)
Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)
Eastman Kodak Company. (See Mees, Charles E. K., assignor.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Piker, M. L., and Pool, assignors.)
Eastman Kodak Company. (See Richardson, Earle E., assignor.)
Eastman Kodak Company. (See Schubert, Alvin E., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eastman Kodak Company. (See Yule, John A. C., assignor.)
Eaton, George, Cleveland, Ohio. Automotive device. 2,161,287; June 6.
Echlin, John E., and L. G. Erickson, assignors to Echlin Manufacturing Co., Inc., San Francisco, Calif. Apparatus for measuring frequency. 2,161,146; June 6.
Echlin Manufacturing Co. (See Echlin, J. E., and Erickson, assignors.)
Eckrich, Henry C. and H. J., Sr., Fort Wayne, Ind., assignors to Peter Eckrich & Sons, Inc., Kalamazoo, Mich. Fat substitute and method of making. 2,161,029; June 6.
Eckrich, Herman J., Sr. (See Eckrich, Henry C. and H. J., Sr.)
Eckrich, Peter & Sons, Inc. (See Eckrich, Henry C. and H. J., Sr.)
Eclipse Aviation Corporation. (See Mock, Frank C., assignor.)
Economic Machinery Company. (See Holm, Carl, assignor.)
Edeleanu Gesellschaft, m. b. H. (See Terres, E., Moos, and Saegebarth, assignors.)
Edelman, Edward H. (See Keyes, Ernest E., assignor.)
Edwards, O. M., Company, The. (See Stephenson, Samuel S., assignor.)
Egersdörfer, Fritz, Berlin, Germany. Fuel feeding device for internal combustion engines. 2,161,507; June 6.
Ehrhardt, George J., Oakmont, assignor to Blaw-Knox Company, Pittsburgh, Pa. Clamshell bucket and corner bracket therefor. 2,161,147; June 6.
Eitzen, August D., Rockville Centre, assignor to News Projection Corporation, New York, N. Y. Page projector. 2,160,847; June 6.
Eitzen, August D., Rockville Centre, assignor to News Projection Corporation, New York, N. Y. Page projector. 2,160,848; June 6.
Eksergian, Caroius L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel mounting. 2,161,740; June 6.
Ellis, George H., New Brighton, assignor to The Insulite Company, Minneapolis, Minn. Apparatus and producing vegetable fiber products. 2,161,653; June 6.
Ellis, George H., New Brighton, assignor to The Insulite Company, Minneapolis, Minn. Protected vegetable fibrous material and making the same. 2,161,654; June 6.
Ellis, George H., New Brighton, assignor to The Insulite Company, Minneapolis, Minn. Making hard, dense, fibrous, boardlike products. 2,161,655; June 6.
Ellis, George T., and R. C. Bratton, Detroit, Mich. Line holder. 2,161,703; June 6.
Ely, Frederic G. (See Wilcoxson, L. S., and Ely.)
Emerson, John. (See Malm, C. J., and Emerson.)
Emmert, Kenneth L. (See Hensel, F. R., and Emmert.)
Emmert, Kenneth L. (See Hensel, F. R., Emmert, and Wiggs.)
Ensor, Claude W., Sparks, and P. L. Bubb, Parkton, Md. Molasses feed mixer. 2,161,508; June 6.
Erich, Reuben, Avenal, Calif. Inertia switch. 2,161,411; June 6.
Erickson, Lennart G. (See Echlin, J. E., and Erickson.)
Erwood, Joseph, assignor to The Webster Company, Chicago, Ill. Turntable drive. 2,161,148; June 6.
Evans Case Company. (See MacDonald, Howard D., assignor.)
Everest, Guy N. (See Gooding, F. H., and Everest.)
Escher Wyss Maschinenfabriken Aktiengesellschaft. (See Keller, Curt, assignor.)
Everett Experimental & Development Co. (See Prokopenko, Gustav C., assignor.)
Faber & Schleicher, A. G. (See Reinartz, Robert, assignor.)
Fairbanks, Henry N., assignor to Eastman Kodak Company, Rochester, N. Y. Locking device for cores in film magazines. 2,161,341; June 6.
Farber, Samuel, Newport, Ky. Valve lock. 2,161,509; June 6.
Farnsworth, Philo T., Springfield Township, Montgomery County, Pa., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Two-stage electron multiplier. 2,161,620; June 6.
Farnsworth Television & Radio Corporation. (See Farnsworth, Philo T., assignor.)
Fausek, Arthur J. and I. F., Clayton, Mo. Multistage pressure regulator. 2,160,849; June 6.
Fausek, Irwing F. (See Fausek, Arthur J. and I. F.)
Faust, Jacob, Belleville, N. J., assignor to L. Sonneborn Sons, Inc. Stabilized petroleum oil distillates. 2,160,851; June 6.
Fehrle, Alfred. (See Streitwolf, K., Fehrle, and Herrmann.)
Feild, Theophilus A., Jr. (See Rugeley, E. W., Feild, and Conlon.)

Fernández, Manuel D., Habana, Cuba. Electric lamp. 2,161,621; June 6.
Fernsch Aktiengesellschaft. (See Möller, Rolf, assignor.)
Fernsch Aktiengesellschaft. (See Strübig, Heinrich, assignor.)
Fibre Processing Limited. (See Brown, William T., assignor.)
Fiedler, Kurt. (See Heinrich, H., Janssen, and Fiedler.)
Fielding, John, North Providence, deceased, Union Trust Company, executors; said Fielding and said executors assignors to J. P. Whitaker, Apponaug, R. I. Clip assembly. 2,161,668; June 6.
Fifield, Albert F., assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail joint shim. 2,161,149; June 6.
Fingado, Rudolf, and H. Hertlein, Leverkusen I. G. Werk, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of tanning substances. 2,161,288; June 6.
Fischel, Eduard, Berlin-Charlottenburg, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Apparatus for measuring the liquid contents of a container or vessel. 2,161,510; June 6.
Fischer, Albert C., Chicago, Ill. Bridged load expansion plate. 2,161,225; June 6.
Fischer, Anton, North Bergen, N. J. Mask for stenciling. 2,161,030; June 6.
Fitch, Clyde J., and K. R. Schneider, Endicott, assignor to International Business Machines Corporation, New York, N. Y. Teletypewriter. 2,161,564; June 6.
Fleishman, Myron. (See Randall, K., and Fleishman.)
Flenner, Albert L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition of matter. 2,161,462; June 6.
Fletcher, James, Akron, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,161,031; June 6.
Flygare, Carl G., assignor to Norton Company, Worcester, Mass. Grinding machine table reciprocating mechanism. 2,161,150; June 6.
Formhals, Anton, assignor of 45/100 to R. Schreiber-Gastell, Mainz, Germany. Method and apparatus for spinning. 2,160,962; June 6.
Formway, William E., Los Altos, Calif. Walnut huller. 2,161,032; June 6.
Forton, George, Detroit, Mich. Airship. 2,160,850; June 6.
Foster, Frank A., Maywood, assignor to The Goss Printing Press Company, Chicago, Ill. Delivery and counting mechanism for rotary printing presses. 2,161,033; June 6.
Foster, Garnet R., Macomb, Ill. Bowling alley gauge. 2,161,704; June 6.
Francis, Earle V., Columbus, Ohio, assignor to The Taylor Vibrator Company. Vibratory feeder. 2,161,342; June 6.
Freda, Severino A., Great Neck, N. Y. Arch supporter. 2,161,565; June 6.
Freeman, Deane M., Providence, R. I. Broiler. 2,161,669; June 6.
Freedman, Harry A., Brooklyn, N. Y. Chair. 2,161,226; June 6.
Freedman, Hyman, Brooklyn, N. Y. Saliva ejector. 2,161,151; June 6.
Freeman, Raymond A. (See Ginsberg, C. W., and Freeman.)
Freeman, Walter R., University City, and W. F. Boldt, Overland, assignors to Wagner Electric Corporation, St. Louis, Mo. Clutch chatter eliminator. 2,161,670; June 6.
Freeport Sulphur Company. (See Cain, G. A., and Chatelain, assignors.)
Freeport Sulphur Company. (See Gilbert, Howard W., assignor.)
French & Hecht, Incorporated. (See Hoffmann, William H., assignor.)
French & Hecht, Incorporated. (See Ploehn, John H., assignor.)
Frese, Joseph F., trustee. (See McCauley, John H., assignor.)
Freudl, Eligius, Tetschen, Czechoslovakia, assignor to Coffarom Aktiengesellschaft, Glarus, Switzerland. Production of surrogates and additions for coffee. 2,161,511; June 6.
Freund, Ernst, Vienna, Austria, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of textiles. 2,161,034; June 6.
Fridén, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Collapsible container. 2,160,963; June 6.
Fridrich, Victor. (See Moeller, Morten V., assignor.)
Fritts, Howard S., Washington, N. J. Antiskid chain unit. 2,161,343; June 6.
Fritz, Karl. (See Scharlau, H., Runge, Buschbeck, and Fritz).
Frost, Harold P., Worcester, Mass. Ball returning target for table tennis. 2,161,463; June 6.
Fuller, Albert B., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Indicating system and calibrating the same. 2,161,344; June 6.
Fuller, Everett W. (See Moran, R. C., and Fuller.)
Fuller, Everett W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oil and protecting same. 2,161,566; June 6.
Furrer, Emery C., Chicago, Ill. Tool. 2,161,152; June 6.
G & W Electric Specialty Co. (See Papp, Andrew E., assignor.)
Gabel, John, Manufacturing Company. (See Mueller, Emil C., assignor.)
Gage, John R., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Manufacture of mercaptothiazoles. 2,161,741; June 6.
Gallinger, Hiram B., Superior, Wis. Door catch. 2,161,671; June 6.
Gallun, Hugo R., and G. S. Waddell, Los Angeles, Calif.; said Gallun assignor to said Waddell. Dual transmission control mechanism. 2,161,153; June 6.
Gantz, Letitia. (See Gunsaullus, Fred D., assignor.)
Gastrich, Gustav, assignor to Textile Machine Works, Wyomissing, Pa. Means and method for heat treating wire formed implements. 2,161,742; June 6.
Gates, Velma A., Phoenix, Ariz. Rythmic cycle calendar. 2,161,345; June 6.
Gauthey, Louis A., Glendale, assignor of one-half to C. Reder, Los Angeles, Calif. Rock bit. 2,160,852; June 6.
Gaw-O'Hara Envelope Co. (See Babicz, George A., assignor.)
Gaylor, Peter J. (See Wiezevich, Peter J.)
Gee, William P., Plainfield, N. J., and M. Neubaus, Fishkill, assignors to The Texas Company, New York, N. Y. Solvent refining of oil. 2,161,567; June 6.
General Aniline Works, Inc. (See Broeg, W., and Morschel, assignors.)
General Aniline Works, Inc. (See Haller, Josef, assignor.)
General Aniline Works, Inc. (See Morschel, H., and Goll, assignors.)
General Aniline Works, Inc. (See Zerweck, W., and Brunner, assignors.)
General Electric Company. (See Bariffi, Herbert F., assignor.)
General Electric Company. (See Boggild, Axel V., assignor.)
General Electric Company. (See Delvaux, Jean L., assignor.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Dunham, George W., assignor.)
General Electric Company. (See Rankin, W. K., and Brossman.)
General Electric Company. (See Watts, Noble H., assignor.)
General Motors Corporation. (See Gould, Richard E., assignor.)
General Motors Corporation. (See Heath, Delos P., assignor.)
General Motors Corporation. (See Hull, Harry B., assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
General Motors Corporation. (See Smith, Harry F., assignor.)
Geophysical Service, Inc. (See Karcher, John C., assignor.)
George, Roscoe H. (See Sprague, C. S., and George.)
Gerhard, Ernst, and H. Scharlau, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Reflector arrangement. 2,160,853; June 6.
Gertler, Irene, Beverly Hills, Calif. Spinning toy. 2,161,154; June 6.
Getaz, James L., Maryville, Tenn. Knitting machine. 2,161,250; June 6.
Gettelman, Fredrick, Milwaukee, Wis. Metal barrel. 2,161,155; June 6.
Gibson, Robert H., assignor to American Bosch Corporation, Springfield, Mass. Ignition distributor. 2,161,251; June 6.
Gignoux, Frank C., assignor to Reed Roller Bit Company, Houston, Tex. Tool joint and making same. 2,161,568; June 6.
Gilbert, Gustave F. L., Houilles, France. Securing device. 2,161,464; June 6.
Gilbert, Howard W., Washington, D. C., assignor to Freeport Sulphur Company, New York, N. Y. Making phosphate-sulphur fertilizer. 2,161,035; June 6.
Gilliland, Edwin R., Cambridge, Mass., assignor to Standard Alcohol Company. Production of isopropyl ether. 2,160,854; June 6.
Gilman, George P., assignor to Rotary Seal Co., Chicago, Ill. Seal for rotating shafts. 2,161,672; June 6.
Ginsberg, Charles W., Brooklyn, and R. A. Freeman, Mount Vernon, assignors to R. Hoe & Co., Inc., New York, N. Y. Method and means for renewing web rolls in a printing machine. 2,160,855; June 6.
Gleaner Harvester Corporation. (See Pierson, Torvald N., assignor.)
Globe Wireless Ltd. (See Storm, Hans O., assignor.)
Godfrey, Joseph R., Concrete, Wash. Adjustable scarifier tooth. 2,160,964; June 6.
Goehring, Bernhard H., assignor to Norton Company, Worcester, Mass. Hydraulic table reciprocating mechanism. 2,161,156; June 6.

Going, George G., Stamford, Conn., assignor, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y. Electric dry shaver. 2,160,965; June 6.

Goldberg, Nathan, Denver, Colo. Spacer for the sides of moving-picture reels. 2,161,157; June 6.

Goldsmith, Lester M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Water deaeration. 2,160,856; June 6.

Goldstein, Sam, Montreal, Quebec, Canada. Machine for cutting fur trimmings for overshoes, slippers, and the like. 2,161,346; June 6.

Goll, Otto. (See Morschel, H., and Goll.)

Gooding, Frank H., Lodi, and G. N. Everest, Hawthorne, assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable system. 2,161,413; June 6.

Goodman, Abraham, Brooklyn, N. Y., assignor to Delamere Company, Inc. Hair curler. 2,161,758; June 6.

Goodman, Abraham, Brooklyn, N. Y., assignor to Delamere Company, Inc. Hair curler. 2,161,759; June 6.

Goodman Manufacturing Company. (See Bergmann, Ernst R., assignor.)

Gorton, George, Machine Co. (See Henkes, Peter M., assignor.)

Goss Printing Press Company, The. (See Foster, Frank A., assignor.)

Gossel, Erich, Berlin-Britz, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, (Germany), Lorenzweg, Germany. Bridging condenser for high frequency arrangements. 2,161,289; June 6.

Gössler, Dietrich, Heidenheim, Germany. Pressure loaded tank for hydraulic transmissions. 2,161,158; June 6.

Gothe, Albrecht, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. High frequency system. 2,160,857; June 6.

Gould & Eberhardt. (See Zimmermann, William F., assignor.)

Gould, Richard E., assignor to General Motors Corporation, Dayton, Ohio. Heat insulation. 2,161,037; June 6.

Granberg, Bengt R., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Machine tool. 2,160,858; June 6.

Granite City Steel Company. (See White, Francis G., assignor.)

Grayson, Francis O., Coral Gables, Fla. Brake slack take-up mechanism. 2,160,859; June 6.

Gregg, Robert G., New York, and A. E. Wirth, Rutherford, N. J., assignors to Construction Products Corporation, New York, N. Y. Incinerator. 2,161,412; June 6.

Greif, Alfred S. (See Rhein, L. R., and Greif.)

Gremmel, Henry F., Rutherford, N. J., and H. D. Rice, Barrington, R. I., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Protecting pipe lines. 2,161,036; June 6.

Griffin, Patrick J., Sydney, Nova Scotia, Canada. Container holder. 2,161,347; June 6.

Grimm, Hans G., Heidelberg, and F. Schamberger, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Coating composition. 2,161,290; June 6.

Groene, William F., and H. C. Kemper, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe apron mechanism. 2,160,966; June 6.

Groene, William F., and W. R. Meyer, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Crankshaft chuck. 2,160,967; June 6.

Groene, William F., and G. W. Luning, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe transmission and the like. 2,161,545; June 6.

Gross, Howard H., Beacon, assignor to The Texas Company, New York, N. Y. Dewaxing hydrocarbon oil. 2,161,569; June 6.

Grosser, Christian E. (See Doe, T. B., Rose, and Grosser.)

Gruenhagen, Henry W. A. (See Heintz, R. M., and Gruenhagen.)

Gruse, William A. (See Stevens, D. R., and Gruse.)

Guenther, Edgar G., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Bobbin supporting and driving device. 2,161,348; June 6.

Gulf Research & Development Company. (See Stevens, D. R., and Gruse, assignors.)

Gunsaulius, Fred D., assignor of one-half to L. Gantz, Pampa, Tex. Pump jack. 2,161,252; June 6.

Gustafson, Alfred N., assignor to Schramm, Incorporated, West Chester, Pa. Compressor. 2,160,860; June 6.

Haas, Frederick S., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 2,161,465; June 6.

Habann, Erich, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany. Receiver for ultrashort waves. 2,161,291; June 6.

Habgood, Bernard J., R. Hill, and L. B. Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of rubberlike polymerization products. 2,161,038; June 6.

Habgood, Bernard J., R. Hill, and L. B. Morgan, Blackley, England, assignors to Imperial Chemical Industries Limited. Manufacture of polymerization products. 2,161,039; June 6.

Hacker, Oskar, assignor to Steyr-Daimler-Puch A. G., Steyr, Austria. Automobile vehicle. 2,161,760; June 6.

Hadden, Gilbert E., Chicago, Ill. Tooth brush. 2,161,349; June 6.

Hagen, Harold F., Dedham, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Fan system. 2,160,968; June 6.

Hahne, Werner H. (See Colby, M. R., Colvin, and Hahne.)

Hahnemann, Walter M., Berlin-Marienfelde, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany. Radiating device. 2,161,292; June 6.

Haines, William D., Haddonfield, assignor of one-half to M. M. Serata, Bridgeton, N. J. Agricultural machine. 2,161,705; June 6.

Haislip, Albert S., Fredericksburg, Va. Holder for frankfurters. 2,161,512; June 6.

Hall, Wayne L. (See McGrath, L. J., and Hall.)

Haller, Josef, Leverkusen-I. G. Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Water-insoluble azo dyestuffs. 2,161,622; June 6.

Halliburton Oil Well Cementing Company. (See O'Donnell, Roland E., assignor.)

Hammer, Samuel, assignor to United Metal Box Co., Inc., Brooklyn, N. Y. Venetian blind head bar. 2,161,414; June 6.

Hammerstrom, Karl R., Dormont, Pa., assignor to The Railroad Research Bureau of the Manufacturing Companies of the United States Steel Corporation. Car truck bolster. 2,161,513; June 6.

Hammond, Grant, New Haven, Conn. Door fastener. 2,161,673; June 6.

Hammond, Laurens, Chicago, Ill. Electrical musical instrument. 2,161,706; June 6.

Hamson, Thomas E., Wichita, Kans. Combination foot and accelerator pedal. 2,161,656; June 6.

Hansburg, George B., New York, N. Y., assignor, by mesne assignments, to Metropolis Bending Company, Metropolis, Ill. Combined chair and table for infants. 2,161,657; June 6.

Hansburg, George B., New York, N. Y., assignor, by mesne assignments, to Metropolis Bending Company, Metropolis, Ill. Combined stool and table. 2,161,658; June 6.

Hansgirg, Fritz, Radenthein, Austria, assignor to American Magnesium Metals Corporation, Pittsburgh, Pa. Producing pure magnesium. 2,160,969; June 6.

Harmon, Lawrence E., Jr., Jamestown, N. Y. Device for removing putty from window sashes. 2,161,040; June 6.

Harris, Allyn, Chicago, Ill., assignor to Cardox Corporation. Material-breaking device. 2,161,041; June 6.

Harris Products Co. (See Bradley, Dan T.)

Harris, Robert A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cooling system. 2,161,570; June 6.

Harrison, Edwin S., deceased, Clayton, Mo.; M. J. Harrison, administratrix. Brake operating apparatus for automobiles and similar vehicles. 2,161,159; June 6.

Harrison, Margaret J., administratrix. (See Harrison, Edwin S.)

Harrison, Woodford F., Berkeley, and F. H. Meyer, Oakland, assignors to The Adhesive Products Co., San Francisco, Calif. Dispenser for parcel handles. 2,161,415; June 6.

Harroun, Ray W., and E. K. Zimmerman, Detroit, Mich., assignors to Aero-Style Corporation, Indianapolis, Ind. Wheel guard. 2,161,160; June 6.

Harroun, Ray W., Detroit, Mich., assignor to Aero-style Corporation, Anderson, Ind. Wheel guard fastener. 2,161,161; June 6.

Harsch, John W., Gwynedd, assignor to Leeds and Northrup Company, Philadelphia, Pa. Carburizing. 2,161,162; June 6.

Hart-Carter Company. (See Hartley, Arthur J., assignor.)

Hartford-Empire Company. (See Howard, George E., assignor.)

Hartley, Arthur J., deceased, The Central National Bank and Trust Company, and N. S. Hartley, executors, assignors to Hart-Carter Company, Peoria, Ill. Thresher feeder mechanism. 2,161,042; June 6.

Hartley, Neta S., et al., executors. (See Hartley, Arthur J.)

Hartzman, Morris, Dubuque, Iowa. Hair collecting apparatus. 2,161,350; June 6.

Harvey, Frank, Cincinnati, Ohio, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Bus bar conduit system. 2,161,571; June 6.

Harwood, Paul D. (See Schaffer, J. M., Harwood, and Wehr.)

Haskellite Manufacturing Corporation. (See Potchen, Joseph A., assignor.)

Hassard, William, Vancouver, British Columbia, Canada, assignor to D. B. Boyd, Los Angeles, Calif. Treating marine oils. 2,160,861; June 6.

Hathaway, Edgar F., Wellesley, and W. Bixby, assignors to Shawmut Engineering Company, Dorchester, Mass. Tuft yarn presentation frame. 2,161,761; June 6.

Hathaway, Edgar F., Wellesley, and W. Bixby, assignors to Shawmut Engineering Company, Dorchester, Mass. Yarn carrier and spool brake mechanism therefor. 2,161,762; June 6.

Hathaway, Jarrett L., Manhasset, N. Y., assignor to Radio Corporation of America. Antenna. 2,161,707; June 6.

Hatter's Fur Exchange, Inc. (See Mulqueen, Michael P., assignor.)

Haworth, Mack E. (See Bird, B. M., and Haworth.)

Hayward, R. B., Company. (See Wandrey, Erwin, assignor.)

Heath, Delos P., Grosse Pointe, Mich., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,161,293; June 6.

Heck, Ludwig, Munich, and R. Schwarz, Berlin-Mariendorf, Germany, assignors to Askania-Werke A. G. Sound operated contact device. 2,161,416; June 6.

Heerwagen, Paul M., Fayetteville, Ark. Acoustic surfacing for walls, ceilings, partitions, or the like. 2,161,708; June 6.

Hedgpeth, Theron L., Oak Park, Ill. Tool having identification insignia. 2,161,163; June 6.

Heichemer, Anthony E. (See Orr, Francis L., assignor.)

Heindl, William C., Rochester, N. Y. Base for fixtures. 2,161,674; June 6.

Heine, Hugo. (See Scholz, M., and Wagenitz, assignors.)

Heinrich, Hans, and J. F. Janssen, Stuttgart, and K. Fiedler, Stuttgart-Kaltental, assignors to Robert Bosch Gesellschaft mit beschränkter Haftung, Stuttgart, Germany. Control means for the fuel supply of internal combustion engines. 2,161,743; June 6.

Heintz & Kaufman, Ltd. (See Heintz, R. M., and Gruenhagen, assignors.)

Heintz, Ralph M., Palo Alto, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Distributor. 2,161,043; June 6.

Heintz, Ralph M., Palo Alto, and H. W. A. Gruenhagen, San Bruno, assignors to Heintz & Kaufman, Ltd., San Francisco, Calif. Antenna reel. 2,161,044; June 6.

Hemphill Company. (See Lawson, R. H., and Cloutier, assignors.)

Henderson, Forest L., Stamford, Conn., assignor to All America Cables, Incorporated, New York, N. Y. System and method of code telegraph signaling. 2,161,294; June 6.

Hendrey, Waldersee B., Beacon, assignor to The Texas Company, New York, N. Y. Solvent refining and dewaxing hydrocarbon oil. 2,161,572; June 6.

Henkes, Peter M., assignor to George Gorton Machine Co., Racine, Wis. Three dimensional engraving and allied pantograph machine. 2,161,709; June 6.

Henneberg, Walter, Berlin-Charlottenburg, assignor to Allegemeine Elektricitatz Gesellschaft, Friedrick Karl, Berlin, Germany. Electron optics. 2,161,466; June 6.

Henry, Edward A., Joplin, Mo. Crushing machine. 2,161,573; June 6.

Heusel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Silver contact. 2,161,253; June 6.

Hensel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Silver-magnesium contact. 2,161,254; June 6.

Hensel, Franz R., K. L. Emmert, and J. W. Wiggs, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Silver alloy. 2,161,574; June 6.

Hensel, Franz R., K. L. Emmert, and J. W. Wiggs, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Silver alloy. 2,161,575; June 6.

Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Alloy. 2,161,467; June 6.

Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Copper base alloy. 2,161,468; June 6.

Hensel, Franz R., K. L. Emmert, and J. W. Wiggs, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Silver base alloy. 2,161,576; June 6.

Hensoldt, Hans, Wetzler, Germany. Prism system. 2,161,623; June 6.

Hercules Powder Company. (See Landon, George K., assignor.)

Herrmann, Walter. (See Streitwolf, K., Fehrle, and Herrmann.)

Hertlein, Hans. (See Fingado, R., and Hertlein.)

Hettrick Manufacturing Company, The. (See Vavrik, Louis, assignor.)

Hey, Henry W., assignor to Automatic Shifters, Inc., Richmond, Va. Control handle device. 2,161,778; June 6.

Hickman, Albert F., assignor to Hickman Pneumatic Seat Co., Inc., Eden, N. Y. Vehicle suspension. 2,160,862; June 6.

Hickman, Kenneth C. D., assignor, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y. High vacuum. 2,160,863; June 6.

Hickman Pneumatic Seat Co. (See Hickman, Albert F., assignor.)

Hill, James H., and H. W. Theiss, Louisville, Ohio, assignors to Continental Steel Corporation, Kokomo, Ind. Producing galvanized metal sheets or articles. 2,160,864; June 6.

Hill, Rowland. (See Habgood, B. J., Hill, and Morgan.)

Hirschberg, Charles A., Mountain Lakes, N. J. Container. 2,161,295; June 6.

Hirschkind, Wilhelm, Berkeley, D. J. Pye, Pittsburg, Calif., and E. G. Thompson, Seattle, Washington, assignors, by mesne assignments, to The Dow Chemical Company, Midland, Mich. Bleaching. 2,161,045; June 6.

Hirschman, Jerome C., Indianapolis, Ind. Wire spring structure. 2,161,165; June 6.

Hirshfeld, Clarence F., Detroit, Mich., assignor to Transit Research Corporation, New York, N. Y. Hub construction. 2,161,164; June 6.

Hitzeman, Arthur C., Roselle, assignor to D. C. Rockola, Chicago, Ill. Parking meter. 2,161,046; June 6.

Hoag, Roderick W., Melrose, Mass. Folding box. 2,161,675; June 6.

Hoe, R., & Co. (See Ginsberg, C. W., and Freeman, assignors.)

Hoerr, Frederick G., St. Louis, Mo. Dividing wall for pans. 2,161,624; June 6.

Hoffmann, William H., Davenport, Iowa, assignor to French & Hecht, Incorporated. Wheel structure. 2,161,351; June 6.

Hoffoss, John E. (See Mackenzie, D., and Hoffoss.)

Holden, Orloff W., assignor to Knickerbocker Rubber Company, Chicago, Ill. Shower ring. 2,161,047; June 6.

Holland Furnace Company. (See De Lin, Martin, assignor.)

Holloway, Joseph C., New Orleans, La., assignor to American Can Company, New York, N. Y. Can holding and protecting mechanism. 2,160,865; June 6.

Holm, Carl, assignor to Economic Machinery Company, Worcester, Mass. Labeling machine. 2,161,469; June 6.

Holm, Carl, assignor to Economic Machinery Company, Worcester, Mass. Rolling label wiper. 2,161,470; June 6.

Holmes, Frederick T., Waterbury, Conn. Water heater. 2,161,417; June 6.

Holston Manufacturing Company. (See Thomas, Samuel E., assignor.)

Holt, Albert C. (See Doty, C. R., Schneider, and Holt.)

Holt, Harold S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,161,625; June 6.

Honig, Frank, Pawtucket, R. I. Method and apparatus for winding balls. 2,161,546; June 6.

Hood, George A., Newark, assignor to New Jersey Optical Company, Irvington, N. J. Ophthalmic mounting. 2,161,296; June 6.

Hooker, Donald E. (See Breitenstein, C. J., and Hooker.)

Hoover Company, The. (See Coons, Curtis C., assignor.)

Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Copy holder for a copying machine. 2,161,352; June 6.

Horak, Gustave J. (See Matter, J. K., and Horak.)

Horn, A. C., & Company. (See Bishop, Richard E., assignor.)

Horst, Karl. (See Steindorff, A., Balle, Horst, and Schild.)

Horstman, John H., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Dispensing device. 2,161,048; June 6.

Horstman, John H., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Dispensing device. 2,161,049; June 6.

Hosmer, Ruth M., et al. (See Betts, Earl W., assignor.)

Hothersal, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container body forming mechanism. 2,160,866; June 6.

Houdry, Eugene J., Rosemont, Pa., assignor to Houdry Process Corporation, Dover, Del. Catalytic operation. 2,161,676; June 6.

Houdry, Eugene J., Rosemont, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Catalysis. 2,161,677; June 6.

Houdry Process Corporation. (See Houdry, Eugène J., assignor.)

Houston, John S., Waverly, Ala. Tool. 2,161,227; June 6.

Hovey, Mark H., Stoughton, Wis. Refrigerating truck. 2,161,050; June 6.

Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and machine for forming glassware. 2,161,255; June 6.

Howlett, Arlene R., Buchanan, Mich. Mop wringer. 2,161,577; June 6.

Hromatka, Otto, Darmstadt, Germany, assignor to Merck & Co. Inc., Rahway, N. J. Production of thiazoles. 2,160,867; June 6.

Hubbard, Arthur R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Toe rest for shoe machines. 2,160,868; June 6.

Hueglin, Herman C., assignor to Airmaster Corporation, Chicago, Ill. Ventilating apparatus. 2,161,471; June 6.

Huffman Manufacturing Company, The. (See Horstman, John H., assignor.)

Hull, Harry B., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,161,297; June 6.

Hulshizer, Joseph I., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Wear compensating device. 2,161,052; June 6.

Humeston, Frederick L., New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company. Adjustabe telescope mount for firearms. 2,161,051; June 6.

Hummel, Henry, New York, N. Y. Electric plug. 2,161,353; June 6.

Hunter, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Electrolytic cell. 2,161,166; June 6.

Hurwit, Sol, Los Angeles, Calif. Woven shoe. 2,161,472; June 6.
Hushinsky, Max, Brooklyn, N. Y. Laundry washing process. 2,161,167; June 6.
Hutter, William H., assignor to Rock-Ola Manufacturing Corp., Chicago, Ill. Phonograph apparatus. 2,161,168; June 6.
Hydraulic Brake Company. (See Bowen, Herbert C., assignor.)
Hydraulic Brake Company. (See Loweke, Aaron A., assignor.)
Hygienic Tube & Container Corporation. (See Lermer, Herman B., assignor.)
Hynson, Westcott & Dunning, Incorporated. (See Krantz, John C., Jr., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Baehr, H., Wenzel, and Mengdehl, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Fingado, R., and Herthlein, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Grimm, H. G., and Schamberger, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jaeger, Karl, assignor.)
I. G. Farbenindustrie Aktinegesellschaft. (See Jaeger, M., and Besemann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schamberger, Friedrich, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Steindorff, A., Balle, Horst, and Schild, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Vollmann, H., and Schacke, assignors.)
Ideal Fastener Corporation. (See Behrens, Walter A., assignor.)
Ideal Fastener Corporation. (See Lawson, Birdsall P., assignor.)
Imperial Brass Manufacturing Company, The. (See Shanley, William C., assignor.)
Imperial Chemical Industries Limited. (See Habgood, B. J., Hill, and Morgan, assignors.)
Imperial Chemical Industries Limited. (See Knight, Arthur H., assignor.)
Imperial Chemical Industries Limited. (See Pearson, John L., assignor.)
Imray, Howard H., Jr., Kingsport, Tenn., and E. A. Robinson, Elizabeth, assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Lubrication of artificial silk. 2,161,354; June 6.
Ingersoll Milling Machine Company, The. (See Strawn, Marion L., assignor.)
Ingersoll-Rand Company. (See Hulshizer, Joseph I., assignor.)
Ingersoll-Rand Company. (See Karr, Alfred D., assignor.)
Inman, Gilbert H., Taunton, Mass. Apparatus to operate a jack. 2,161,053; June 6.
Insulite Company, The. (See Ellis, George H., assignor.)
International Business Machines Corporation. (See Brand, Samuel, assignor.)
International Business Machines Corporation. (See Cunningham, James M., assignor.)
International Business Machines Corporation. (See Doty, C. R., Schneider, and Holt, assignors.)
International Business Machines Corporation. (See Fitch, C. J., and Schneider, assignors.)
International Business Machines Corporation. (See Nichols, H. J., and Tholstrup, assignors.)
International Business Machines Corporation. (See Rabenda, Edward J., assignor.)
International Business Machines Corporation. (See Rolwey, Russell A., assignor.)
International Business Machines Corporation. (See Torkelson, Torkel E., assignor.)
International Business Machines Corporation. (See Wilson, Joseph T., assignor.)
International Standard Electric Corporation. (See Webb, John K., assignor.)
Isaacs, Mone R., Chelsea, N. J. Composition of matter. 2,160,869; June 6.
Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)
Jackson, Paul C., Houston, Tex. Pumping unit. 2,161,298; June 6.
Jacobs, F. L., Co. (See Visser, John, assignor.)
Jacobson, Irving, Burbank, Calif. Shutter and flash synchronizer for cameras. 2,161,355; June 6.
Jaeger, Karl, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of absorptive materials. 2,161,710; June 6.
Jaeger, Max, and F. Besemann, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of alkali metasilicates and alkali metasilicate-containing compositions. 2,161,515; June 6.
Janssen, Johann. (See Heinrich, H., Janssen, and Fiedler.)
Jayet, Albert C. (See Benson, R. F., Bauer, and Jayet.)
Jefferis, Albert W., Jr., assignor of one-half to E. H. Wilson, Omaha, Nebr. Dentiphone. 2,161,169; June 6.
Jeffree, John H., Oxshott, assignor to Scophony Limited, Campden Hill, London, England. Television and the like system. 2,161,299; June 6.
Jeffrey Manufacturing Company, The. (See Bird, B. M., and Haworth, assignors.)
Jepson, James A., Decatur, Ga., assignor to Decatur Associates. Variable speed drive. 2,161,054; June 6.
Jessen, Arnold H., Los Angeles, Calif. Power-transmission mechanism. 2,161,473; June 6.
Jewett, Earold C., assignor to Eastman Kodak Company, Rochester, N. Y. Film forming apparatus. 2,161,356; June 6.
Johnson, Bernard G., Brookfield, Ill. Die truck. 2,161,578; June 6.
Johnston, Mordica O. (See O'Neill, Frank E., assignor.)
Johnstone, Henry F., and A. D. Singh, Urbana, assignors, by mesne assignments, to Commonwealth Edison Company, Chicago, Ill. Recovery of SO_2 from ammonium sulphite solutions. 2,161,055; June 6.
Johnstone, Henry F., and A. D. Singh, Urbana, assignors, by mesne assignments, to Commonwealth Edison Company, Chicago, Ill. Recovering sulphur dioxide from waste gases. 2,161,056; June 6.
Jones, David M. (See Whitmore, F. C., Jones, and Noll.)
Jones, Edwin P., Garden City, assignor to Champagne Paper Corporation, New York, N. Y. Making paper pulp. 2,161,763; June 6.
Jones, George F., Dallas, Tex. Overhead drop bulkhead gate. 2,160,870; June 6.
Jones, Loren F., Merchantville, N. J., assignor to Radio Corporation of America. Hum reduction in amplifier networks. 2,161,418; June 6.
Jones, Willie F., Anderson, S. C. Apparatus for conditioning cotton. 2,161,170; June 6.
Josselyn, John, Administrator, et al. (See de la Cierva, Juan, assignor.)
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Material handling apparatus. 2,161,547; June 6.
Jung, Albert H., Flushing, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Attachment for collapsible tubes. 2,161,516; June 6.
Jurs, Albert E., Piedmont, Calif. Gas flow regulator. 2,161,171; June 6.
Kaier, Richard, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Adjustable eccentric for sewing machines. 2,161,579; June 6.
Kalischer, Philip R., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Brazing alloy. 2,161,057; June 6.
Kamiss, Charles B., Flushing, N. Y. X-ray cassette. 2,161,058; June 6.
Kaplan, Bernard H., Fairfax, Calif. Hedge and lawn clipper. 2,161,357; June 6.
Karcher, John C., assignor to Geophysical Service, Inc., Dallas, Tex. Apparatus for determining the hardness of subsurface formations. 2,161,256; June 6.
Karmel, Philip. (See Norton, C., and Karmel.)
Karr, Alfred D., Newark, assignor to Ingersoll-Rand Company, Jersey City, N. J. Refrigerating apparatus. 2,161,059; June 6.
Kassler, Louis, New York, N. Y. Practice gun. 2,161,172; June 6.
Kawneer Company, The. (See Plym, Francis J., assignor.)
Kayser, Julius, & Co. (See Mutchler, Arthur W., assignor.)
Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. 2,161,257; June 6.
Keep, Glenn A., and E. E. Todd, Keeler, Calif. Making sodium carbonate products. 2,161,711; June 6.
Keil, Francis & Son, Inc. (See Brantingson, Sigurd, assignor.)
Keller, Charles G. (See Sargent, W. D., and Keller.)
Keller, Curt, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland. Axial flow turbo compressor. 2,161,517; June 6.
Kelley, Raymond E., Snyder, N. Y. Portable apparatus for supplying heavy mastics to mastic applying guns. 2,160,871; June 6.
Kelsey, Cadwallader W., Troy, N. Y. Container. 2,161,060; June 6.
Kemp, Lebbeus C., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Cracking hydrocarbon oils. 2,160,872; June 6.
Kemper, Harry C. (See Groene, W. F., and Kemper.)
Kendall, Marcus T., Long Beach, Calif., assignor to The Texas Company, New York, N. Y. Neutralization of acid oils. 2,161,580; June 6.
Kerls, Hans, Baltimore, Md. Refractory materials. 2,160,873; June 6.
Keyes, Ernest E., assignor of one-half to E. H. Edelman, Kalamazoo, Mich. Expansible mandrel. 2,161,061; June 6.
Kienle, Roy H. (See Shive, R. A., Coffee, and Kienle.)
Killgore, Robert J., Los Nietos, Calif. Percussion tool. 2,161,062; June 6.
Kingman, Russell B. (See Stroop, John H., assignor.)
Kinsel, Anton, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc. Regenerating a bauxite adsorbent. 2,160,874; June 6.
Kipperman, Jan, and A. J. J. Lambeek, Tilburg, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Manufacturing condenser electrodes. 2,161,419; June 6.
Klein, Louis M., New York, N. Y., assignor to American Pouch Corporation. Cellophane tobacco pouch. 2,161,474; June 6.
Klemt, Charlie, San Antonio, Tex. Parking meter. 2,161,518; June 6.
Klipstein, Kenneth H., Short Hills, assignor to Calco Chemical Co., Inc., Bound Brook, N. J. Lubricating composition. 2,161,678; June 6.

Knickerbocker Rubber Company. (See Holden, Orloff W., assignor.)
Knight, Athur H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Azo dyestuffs. 2,161,627; June 6.
Knowles, Edwin C., Beacon, assignor to The Texas Company, New York, N. Y. Dewaxing of mineral oils. 2,161,581; June 6.
Kohler, Harriet S., Westport, Conn. Article of wearing apparel. 2,161,063; June 6.
Kolstad, Welding J., Hyde Park, Mass. Chuck. 2,161,300; June 6.
Kondrat, Dimitrie S. (See Carroll, W. P., and Kondrat.)
König, Hermann, Berlin-Schmockwitzwerder, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Suspension device. 2,161,301; June 6.
Koster, Paul E., Berlin-Siemensstadt, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschrankter Haftung, Berlin, Germany. Inclinometer for aircraft. 2,160,970; June 6.
Krantz, John C., Jr., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Therapeutic agents. 2,161,358; June 6.
Krause, Frank R., Ellwood City, Pa. Method and apparatus for elongating metal blanks. 2,161,064; June 6.
Krause, Frank R., Ellwood City, Pa. Apparatus for reducing tubular blanks. 2,161,065; June 6.
Krell, Joseph, Berlin-Zehlendorf, assignor to Adrema Maschinenbauges, m. b. H., Berlin, Germany. Ejector for ejecting printed articles from a printing machine. 2,161,712; June 6.
Kronmiller, Carl G. (See Denison, F. S., and Kronmiller.)
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor operated control mechanism. 2,161,258; June 6.
Kucher, Andrew A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,161,420; June 6.
Kucher, Andrew A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,161,421; June 6.
Kuenhold, Otto J., Shaker Heights, assignor to Monmouth Products Company, Cleveland, Ohio. Heat control system. 2,161,679; June 6.
Kuhn, Wayne E., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Cracking hydrocarbon oils. 2,160,875; June 6.
Kvasnička, Alfréd. (See Sochor, Z., Kvasnička, and Morch.)
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Alkyl-substituted aromatic sulphonic acids. 2,161,173; June 6.
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Alkyl-substituted aromatic sulphonic acids. 2,161,174; June 6.
Lakatos, Emory, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical transducer. 2,160,876; June 6.
La Lande, William A., Jr., Upper Darby, Pa. Selenium-containing catalyst. 2,161,066; June 6.
Lambeek, Adriaan J. J. (See Kipperman, J., and Lambeek.)
Lambert, Homer T., St. Joseph, Mich. Brake construction. 2,161,359; June 6.
Lambert, Homer T., St. Joseph, Mich. Brake mechanism. 28,161,360; June 6.
Landis Tool Company. (See Ott, Conrad L., assignor.)
Landon, George K., assignor to Hercules Powder Company, Wilmington, Del. Nitrating methane. 2,161,475; June 6.
Lane Company, The. (See Loftin, Grady A. and L. K., assignors.)
Lane, Harold, and W. N. Bray, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 2,160,877; June 6.
Lapointe Machine Tool Company, The. (See Monroe, Kenneth C., assignor.)
Larsen, Earl I. (See Hensel, F. R., and Larsen.)
Latex Fiber Industries, Inc. (See Owen, Allen F., assignor.)
Latting, Lucile D., et al. (See Ashcroft, Ethel P., assignor.)
Laurent, Milton P., assignor to W. K. M. Company, Incorporated, Houston, Tex. Valve. 2,161,175; June 6.
Lautenschläger, Carl L., F. Lindner, R. Rigler, Frankfort-on-the-Main, and O. Schaûmann, Wiesbaden, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Stable therapeutic products from intestinal mucous membrane and preparing them. 2,161,422; June 6.
La Valle, Dominick, New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Treating shoe linings. 2,160,878; June 6.
Lawson, Birdsall P., New York, assignor to Ideal Fastener Corporation, Brooklyn, N. Y. Slider. 2,160,879; June 6.
Lawson, Robert H., Pawtucket, and A. N. Cloutier, Lonsdale, assignors to Hemphill Company, Central Falls, R. I. Slip-foot knitting machine and method. 2,161,067; June 6.
Layman, Elbert L. (See Minyard, I. T., and Layman.)
Layne, Leslie A., Houston, Tex. Boat drive. 2,161,068; June 6.
Learned, John. (See Cheney, F. D., and Learned.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Kemper, assignors.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Luning, assignors.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Meyer, assignors.)
Leeds and Northrup Company. (See Harsch, John W., assignor.)
Leisner, Paul W., Evanston, Ill. Bridge construction. 2,161,176; June 6.
Leisner, Paul W., Evanston, Ill. Bridge construction. 2,161,177; June 6.
Leitz, Ernst, G. m. b. H. (See Becker, Helmut, assignor.)
Leitz, Ernst, G. m. b. H. (See Mulch, Hans, assignor.)
Leja, Alfred H., assignor to A. O. Smith Corporation, Milwaukee, Wis. Ore concentrator. 2,161,476; June 6.
Leja, Alfred H., assignor to A. O. Smith Corporation, Milwaukee, Wis. Concentrating ores. 2,161,477; June 6.
Lenz, Charles Edward, Jr., Baltimore, Md., and R. A. Parker, Waterbury, Conn. Upholstery construction. 2,160,971; June 6.
Leo Corporation. (See McKone, L. J., and Lyons, assignors.)
Leonard, Ward, Electric Company. (See Logan, Frank G., assignor.)
Lerner, Herman B., assignor, by mesne assignments, to Hygienic Tube & Container Corporation, Newark, N. J. Syringe or applicator. 2,161,178; June 6.
Levine, William G. (See Sakren, B., and Levine.)
Levis, Thomas S. (See Bolek, F. J., and Levis.)
Lewis Invisible Stitch Machine Company. (See Mueller, Charles W., assignor.)
Lewis, Robert, assignor to The Denver Fire Clay Company, Denver, Colo. Combustion control. 2,161,361; June 6.
Lewis, Robert M., Columbus, Ga. Electric refrigerator. 2,161,713; June 6.
Lewis-Shepard Company. (See Shepard, F. J., and Warshaw, assignors.)
Lindelof, August E., Tampico, Ill. Plow colter and shoe. 2,161,714; June 6.
Lindner, Fritz. (See Lautenschläger, C. L., Lindner, Rigler, and Schaûmann, assignors.)
Lindsay, Gordon, West Dulwich, London, England. Writing pad or paper sheet holder. 2,161,362; June 6.
Lindsay, Henry, assignor to Henry Lindsay Limited, Bradford, England. Hook adapter. 2,161,259; June 6.
Lindsay, Henry, Limited. (See Lindsay, Henry, assignor.)
Linsell, Alfred A., London, England, assignor to Radio Corporation of America. Ignition system. 2,161,302; June 6.
Linsley, Douglas F. (See Reilly, F. C., Carter, and Linsley.)
Litchy, Louis J., Royalton, Minn. Snow plow. 2,160,972; June 6.
Litchy, Louis J., Royalton, Minn. Adjustable flareboards for a plow. 2,160,973; June 6.
Littell, F. J., Machine Company. (See Littell, Frederick M., assignor.)
Littell, Frederick M., assignor to F. J. Littell Machine Company, Chicago, Ill. Automatic reel. 2,161,228; June 6.
Loane, Clarence M. (See Shoemaker, B. H., and Loane.)
Loane, Clarence M., Whiting, and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,160,880; June 6.
Loane, Clarence M., and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,160,881; June 6.
Locke, Nettie, Seattle, Wash. Sleeve hair curler. 2,161,478; June 6.
Loftin, Grady A. and L. K., assignors to The Lane Company, Inc., Altavista, Va. Lock. 2,161,519; June 6.
Loftin, Laurence K. (See Loftin, Grady A. and L. K.)
Logan, Frank G., Pelham, N. Y., assignor to Ward Leonard Electric Company. Electric controlling apparatus. 2,161,179; June 6.
Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Gun sight. 2,161,303; June 6.
Lord, George R. (See Miller, A. E., and Lord.)
Lorenz, C., Aktiengesellschaft. (See Begun, Semi, assignor.)
Lorenz, C., Aktiengesellschaft. (See Gossel, Erich, assignor.)
Lorenz, C., Aktiengesellschaft. (See Habann, Erich, assignor.)
Lorenz, C., Aktiengesellschaft. (See Hahnemann, Walter M., assignor.)
Lorenz, C., Aktiengesellschaft. (See König, Hermann, assignor.)
Lorenz, C., Aktiengesellschaft. (See Messner, Maximilian, assignor.)
Lorenz, C., Aktiengesellschaft. (See Rogowski, W., and Becker, assignors.)
Lorenz, C., Aktiengesellschaft. (See Schulze-Herringen, Erich, assignor.)
Lotter, William. (See Moecker, H., Jr., Lotter, Scholander, and Brumbaugh.)
Loughner, Frank E., Greensburg, Pa., and F. H. Morehead, Riverside, Conn., assignors to Walworth Patents Inc., Boston, Mass. Locking device. 2,161,626; June 6.
Lowe, Russell E. (See Morgan, J. D., and Lowe.)

Loweke, Aaron A., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure braking system. 2,161,304; June 6.

Lubs, Herbert A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making azo dyes. 2,160,882; June 6.

Luce, Vern R., Los Angeles, Calif. Wrapper tube forming machine. 2,161,479; June 6.

Lueck, Lawrence R., El Monte, Calif. Distress signal. 2,160,974; June 6.

Luftschiffbau Zeppelin G. m. b. H. (See Duerr, Ludwig, assignor.)

Lundstrum, Allan W., Portland, Oreg. Circulating space heater and venting means therefor. 2,160,883; June 6.

Luning, George W. (See Groene, W. F., and Luning.)

Lyons, Willard E. (See McKone, L. J., and Lyons.)

MacDonald, Howard D., assignor to Evans Case Company, North Attleboro, Mass. Receptacle. 2,161,715; June 6.

MacHaynes, Raymond, Bethpage, N. Y. Automatic cutting and slicing machine. 2,161,480; June 6.

Mackenzie, Donald, and J. E. Hoffoss, assignors to Reed Roller Bit Company, Houston, Tex. Core catcher. 2,161,582; June 6.

Maclean, Neil A. (See Richert, Paul H., assignor.)

Madison-Kipp Corporation. (See Schultz, Raymond J., assignor.)

Malcolm, Charles A., Meadow Bridge, assignor of one-sixth to J. H. Bowles, one-sixth to M. Walker, and one-sixth to A. C. C. Walker, Cabincreek, W. Va. Car wheel truing brake shoe. 2,161,363; June 6.

Maldonado, Antonio I., Los Angeles, Calif. Ironing board. 2,160,884; June 6.

Mallinckrodt Chemical Works. (See Whitmore, F. C., Jones, and Noll, assignors.)

Mallinckrodt Chemical Works. (See Whitmore, F. C., and Thorpe, assignors.)

Mallory, P. R., & Co. (See Hensel, F. R., and Emmert, assignors.)

Mallory, P. R., & Co. (See Hensel, F. R., Emmert, and Wiggs, assignors.)

Mallory, P. R., & Co., Inc. (See Hensel, F. R., and Larsen, assignors.)

Malm, Carl J., and J. Emerson, assignors to Eastman Kodak Company, Rochester, N. Y. Antihalation coating. 2,161,364; June 6.

Manhattan Shirt Company, The. (See Du Pree, C., and Ackerman, assignors.)

Manifold Supplies Company. (See Benello, Egidio M., assignor.)

Maniscalco, Pietro, Toledo, Ohio. Internal combustion engine. 2,161,069; June 6.

Marks, Barnard M., Clifton, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization. 2,161,481; June 6.

Martin, Elmer R., Springfield, assignor to The Williams Company, London, Ohio. Polishing machine. 2,160,885; June 6.

Martin, James, Higher Denham, near Uxbridge, England. Safety device for airplanes. 2,161,520; June 6.

Martin, Joseph, Laurelton, assignor to United States Cabinet Bed Co., Brooklyn, N. Y. Studio couch. 2,161,514; June 6.

Martin, Louis D., assignor to Eastman Kodak Company, Rochester, N. Y. Control mechanism for gear shaping machines. 2,161,365; June 6.

Marx, Louis, & Company. (See Bonnett, John, assignor.)

Marx, Louis, & Company. (See McKeige, E. E., and Smith, assignors.)

Marx, Louis, & Company. (See Randall, K., and Fleishman, assignors.)

Marx, Peter, Hennef-on-the-Sieg, Germany. Apparatus for melting metals. 2,161,180; June 6.

Marx, Peter, Hennef-on-the-Sieg, Germany. Melting furnace. 2,161,181; June 6.

Mason Box Company, The. (See Barnes, Aldrich B., assignor.)

Massey, Alfred N., San Francisco, Calif. Supercharger for internal combustion engines. 2,161,182; June 6.

Mastney, Edward J., Berwyn, assignor to Oak Manufacturing Company, Chicago, Ill. Preselector. 2,161,183; June 6.

Mathieu, Herman W., and S. S. Rossander, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Intermediates for azo dyes. 2,161,628; June 6.

Matter, James K., La Grange, Ill., and G. J. Horak, assignors to The Aluminum Cooking Utensil Company, New Kensington, Pa. Method and apparatus for forming metallic receptacles. 2,160,975; June 6.

Mattfeldt, Jessie, San Francisco, Calif. Safetypin. 2,161,260; June 6.

Matthews Conveyor Company. (See Bowen, Merel S., assignor.)

McCarty, Malcolm D., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Galvanometer. 2,161,744; June 6.

McCauley, John H., Hillside, N. J., assignor to J. F. Frese, trustee, Baltimore, Md. Animated electrical discharge device. 2,161,716; June 6.

McClure, Ora D., Ishpeming, Mich. Mine skip. 2,161,583; June 6.

McCombs, William A., New York, N. Y. Exhibiting device. 2,160,886; June 6

McConnell, Edmond S., Ossining, assignor to Anaconda Wire & Cable Company, New York, N. Y. Joint for hollow cables and elements thereof and making same. 2,161,423; June 6.

McCord, Herbert F., Pelham, assignor to Western Electric Company, Incorporated, New York, N. Y. Carrying tray. 2,161,629; June 6.

McDonald, Grace A., Petersburg, Ill. Cartograph. 2,161,717; June 6.

McDonnell, Aloysius S., Chicago, Ill. Counting device. 2,161,630; June 6.

McDonough, Walter S., Philadelphia, Pa. Gas burner control. 2,161,070; June 6.

McFarland, Charles T., assignor to Municipal Service Company, Kansas City, Mo. Mixing apparatus. 2,161,631; June 6.

McGarry, Henry T., et al. (See Ashcroft, Ethel P., assignor.)

McGrath, Leigh J., and W. L. Hall, assignors to Zellerbach Paper Company, San Francisco, Calif. Packing frozen food. 2,161,071; June 6.

McGregor, Thomas A., assignor to American Forging & Socket Company, Pontiac, Mich. Adjustable support. 2,161,366; June 6.

McGregor, Thomas A., and A. J. Rhodes, assignors to The American Forging & Socket Company, Pontiac, Mich. Adjustable support. 2,161,367; June 6.

McKeige, Edward E., and A. N. Smith, Girard, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y. Remotely controlled switch for toy railroads. 2,161,424; June 6.

McKenney, Fred Y., Red Bank, assignor to Cumberland Case Company, Chattanooga, Tenn. Container structure. 2,161,072; June 6.

McKenzie, Colin R., Oakland, Calif. Necktie form and holder. 2,160,887; June 6.

McKone, Leo J., and W. E. Lyons, assignors to Leo Corporation, Chicago, Ill. Motor lubricating oil. 2,161,184; June 6.

McLaughlin, F. L. (See Burke, James P., assignor.)

McLeod, John H., assignor to Eastman Kodak Company, Rochester, N. Y. Lens mount. 2,161,368; June 6.

McLeod, John H., and R. S. Morse, assignors to Eastman Kodak Company, Rochester, N. Y. Sound recording. 2,161,369; June 6.

McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Tetrahydrofurfurylaminonaphthalene compounds and their preparation. 2,161,745; June 6.

McWane, Henry E., Lynchburg, Va. Mold and core structure. 2,161,521; June 6.

McWane, Henry E., Lynchburg, Va. Construction of molds. 2,161,522; June 6.

Mead Corporation. (See Samaras, N. N. T., and Plunguian, assignors.)

Mears, Donald B., St. Albans, Vt. Spinal detector. 2,161,370; June 6.

Mechanism Limited. (See Moss, Douglas G. K., assignor.)

Mees, Charles E. K., Rochester, N. Y., assignor by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Photographic apparatus. 2,161,371; June 6.

Mehl, Amos C., Crook, Colo. Beet loader. 2,161,073; June 6.

Mengdehl, Helmut. (See Baehr, H., Wenzel, and Mengdehl.)

Merck & Co. (See Hromatka, Otto, assignor.)

Mertens, Gabriel R., Darby, Pa. Propeller. 2,161,074; June 6.

Mesinger, William F. (See Baker, H. J., and Mesinger.)

Messner, Maximilian, Berlin-Westend, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Television arrangement. 2,161,305; June 6.

Metals & Control Corporation. (See Most, Lucifer J., assignor.)

Metropolis Bending Company. (See Hansburg, George B., assignor.)

Metzner, Albert W. (See Sherman, J. Q., and Metzner.)

Meyer, Ferd H. (See Harrison, W. F., and Meyer.)

Meyer, Walter R. (See Groene, W. F., and Meyer.)

Michalka, Harry W., Rice Lake, Wis. Wrench. 2,160,977; June 6.

Middleby-Marshall Oven Co. (See Davis, W. E., and Schonwald, assignors.)

Middleby-Marshall Oven Co. (See Schonwald, William, assignor.)

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Camera adjusting mechanism. 2,161,372; June 6.

Milburn, Roy, and W. Briggs, Muskogee, Okla. Coal pusher for locomotive tenders. 2,161,373; June 6.

Miller, Albert E., Westfield, N. J., and G. R. Lord, Pelham Manor, assignors to Sinclair Refining Company, New York, N. Y. Solvent regeneration of spent decolorizing adsorbent. 2,161,306; June 6.

Miller, Albert E., Westfield, N. J., and W. B. Chenault, Wellsville, assignors to Sinclair Refining Company, New York, N. Y. Solvent regeneration of decolorizing adsorbents. 2,161,307; June 6.

Miller, Carroll E., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Threading mechanism. 2,161,548; June 6.

Miller, Grover C., Los Angeles, and R. C. Sourwine, Walnut Park, assignors to Samson Tire & Rubber Corporation, Los Angeles, Calif. Method and apparatus for manufacturing inner tubes. 2,161,775; June 6.

Miller, James S., and B. E. Rhoads, Neville Island, Pa., assignors to Dravo Corporation. Assembling instrument for piling. 2,161,482; June 6.

Miller, Ralph E., Newport, Wash. Leveling device. 2,161,718; June 6.

Mills, Frederick F., Woodbine, N. J. Structural material. 2,161,185; June 6.

Mills Novelty Company. (See Trask, Allen, assignor.)

Milne, Lynn, Sturgis, S. Dak. Squeegee rack for photostat machines. 2,161,229; June 6.

Miner, W. H., Inc. (See Dwyer, William M., assignor.)

Minneapolis-Honeywell Regulator Company. (See Denison, F. S., and Kronmiller, assignors.)

Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)

Minton, John P., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method and means for recording seismic waves. 2,161,764; June 6.

Minyard, Ira T., Odessa, and E. L. Layman, Crane, Tex. Platform and pipe rack for oil well derricks. 2,161,719; June 6.

Miratl, John, Pittsburg, Calif. Can holding and liquid dispensing device. 2,160,976; June 6.

Mock, Frank C., Montclair, assignor to Eclipse Aviation Corporation, East Orange, N. J. Fuel pump. 2,160,978; June 6.

Moecker, Henry, Jr., W. Lotter, and A. Scholander, Cleveland, Ohio, and I. V. Brumbaugh, assignors to American Stove Company, St. Louis, Mo. Gas cock or valve. 2,161,523; June 6.

Moeller, Else, née Knupfer, legal representative. (See Moeller, Morten V.)

Moeller, Morton V., deceased, Copenhagen, Denmark, by E. Moeller, née Knupfer, legal representative, Rohr near Stuttgart, assignor to V. Friedrich, Berlin-Tempelhof, Germany. Knife rest for sharpening knives. 2,160,979; June 6.

Moineau, René J. L., Paris, France. Motor pump or electric generator. 2,161,374; June 6.

Möller, Rolf, Berlin-Zehlendorf, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Recording television images. 2,160,888; June 6.

Moloney, Raymond T. (See Breitenstein, C. J., and Hooker, assignors.)

Monarch Governor Company. (See Alexander, Arthur S., assignor.)

Monarch Governor Company. (See Sarnes, Lowell F., assignor.)

Monmouth Products Company. (See Kuenhold, Otto J., signor.)

Monroe, Kenneth C., assignor to The Lapointe Machine Tool Company, Hudson, Mass. Control mechanism for hydraulic presses. 2,161,375; June 6.

Monsanto Chemical Company. (See Carswell, Thomas S., assignor.)

Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)

Moody, Dwight L., Hempstead, N. Y., N. D. Newby, Leonia, and F. F. Shipley, Teaneck, N. J., assignors to American Telephone and Telegraph Company. Telephone system. 2,161,376; June 6.

Moore, Edmond E. (See Volwiler, E. H., and Moore.)

Moore, Garnett V. (See Coleman, G. H., and Moore.)

Moos, Josef. (See Terres, E., Moos, and Saegebarth.)

Moran, Robert C., Wenonah, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Petroleum lubricant composition. 2,161,584; June 6.

Moran, Robert C., Wenonah, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Stabilized mineral oil. 2,161,585; June 6.

Morch, Sláva. (See Sochor, Z., Kvasnička, and Morch.)

Morehead, French H. (See Loughner, F. E., and Morehead.)

Morelli, Alfred A., Ridgway, Pa. Pad. 2,161,720; June 6.

Moren, William V. (See Peterson, C. H., and Moren.)

Morgan Construction Company. (See Morgan, Myles, assignor.)

Morgan, John D., South Orange, N. J., and R. E. Lowe, New York, N. Y., assignors to Power Patents Company, Hillside, N. J. Insulating material and process of manufacture. 2,161,186; June 6.

Morgan, John S., Jr., Inglewood, Calif., assignor, by mesne assignments, to The National Supply Company, Pittsburgh, Pa. Draw works. 2,161,075; June 6.

Morgan, Leslie B. (See Habgood, B. J., Hill, and Morgan.)

Morgan, Myles, assignor to Morgan Construction Company, Worcester, Mass. Method of and apparatus for reeling strip material. 2,161,076; June 6.

Morrison, Charles T., and H. T. Eastman, Chicago, Ill. Concentration of ores. 2,161,425; June 6.

Morschel, Heinrich. (See Broeg, W., and Morschel.)

Morschel, Heinrich, Cologne-Deutz, and O. Goll, Leverkusen-I. G. Werk, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dihydrobenzocarbazole compounds. 2,161,524; June 6.

Morse Andrews Co. (See O'Brien, Jerome E., assignor.)

Morse, Richard S. (See McLeod, J. H., and Morse.)

Mortensen, Harry R., Moorhead, Iowa. Check pad holder. 2,160,889; June 6.

Morton, Harry E., Boston, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Engine cooling system. 2,160,980; June 6.

Moss, Douglas G. K., Sanderstead, assignor to Mechanism Limited, Croydon, England. Navigational indicating instrument. 2,161,077; June 6.

Most, Lucifer J., Arlington, N. J., assignor to Metals & Controls Corporation, Attleboro, Mass. Decorated article. 2,161,549; June 6.

Mountstephen, Edred R., Southend-on-Sea, England. Automatic burglar, fire, or like alarm. 2,161,525; June 6.

Mountstephen, Edred R., Southend-on-Sea, England. Automatic burglar and fire alarm. 2,161,526; June 6.

Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blind stitch sewing machine. 2,161,527; June 6.

Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Work support for sewing machines. 2,161,528; June 6.

Mueller, Emil C., assignor to John Gabel Manufacturing Company, Chicago, Ill. Automatic phonograph. 2,161,483; June 6.

Mueller, Erwin, Chicago, Ill. Liquid applying machine. 2,161,187; June 6.

Mugdan, Martin, and J. Wimmer, Munich, assignors to Consortium für Elktrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Polymerization of trichlorethylene. 2,161,078; June 6.

Mulch, Hans, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Ventilating device for projection apparatus. 2,160,890; June 6.

Mulqueen, Michael P., assignor to The Hatter's Fur Exchange, Inc., Walden, N. Y. Treatment of fibrous material of vegetable origin. 2,161,377; June 6.

Muncheryan, Hrand M., Los Angeles, Calif., assignor to Royal Electric Company, Pawtucket, R. I. Renewable indicating fuse plug. 2,161,079; June 6.

Municipal Service Company. (See McFarland, Charles T., assignor.)

Murphy, Edward A., Wylde Green, G. W. Trobridge, Sutton Coldfield, and A. N. Ward, Alum Rock, Birmingham, assignors to Dunlop Rubber Company, Limited, London, England. Tubular rubber and spring structure and producing the same. 2,161,080; June 6.

Murphy, Edward A., Wylde Green, and A. A. Round and T. Norcross, Erdington, Birmingham, assignors to Dunlop Rubber Company, Limited, London, England. Manufacture of goods of spongelike or cellular rubber. 2,161,308; June 6.

Murray, Alexander, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Color separation process for multicolor printing. 2,161,378; June 6.

Murray Corporation of America, The. (See Avery, C. W., and Vehko, assignors.)

Murray Corporation of America, The. (See Widman, Charles H., assignor.)

Mutchler, Arthur W., Bangor, Pa., assignor to Julius Kayser & Co., New York, N. Y. Yarn laying mechanism for straight-bar hosiery machines. 2,161,550; June 6.

Myer, Jay L., Leola, Pa. Building block construction. 2,161,680; June 6.

N. V. Philips' Gloeilampenfabrieken. (See de Boer, J. H., and Teves, assignors.)

N. V. Philips' Gloeilampenfabrieken. (See Kipperman, J., and Lambeek, assignors.)

N. V. Philips' Gloeilampenfabrieken. (See Posthumus K., and von Lindern, assignors.)

N. V. Philips' Gloeilampenfabrieken. (See van Geel, Willem C., assignor.)

N. V. Philips' Gloeilampenfabrieken. (See Weyers, Theodorus J., assignor.)

Naamlooze Vennootschap Chemische Fabriek L. van der Grinten. (See van der Grinten, Lodewijk P. F., assignor.)

Nagler, Louis G., et al. (See Doherty, Frank J., assignor.)

National Lead Company. (See Carroll, W. P., and Kondrat, assignors.)

National Supply Company, The. (See Morgan, John S., Jr., assignor.)

Nattenheimer, Martin L., Chicago, Ill. Fastening device. 2,161,632; June 6.

Neckar Company. (See Contant, Peter M., assignor.)

Neff, Samuel G., Fort Peck, Mont. Pole or pile pulling device. 2,160,891; June 6.

Neff, Samuel G., Fort Peck, Mont. Post or pile pulling device. 2,160,892; June 6.

Negus, Robert L., assignor to Aqua-Electric Corporation, Limited, Halifax, Nova Scotia, Canada. Method of and apparatus for purifying water. 2,161721; June 6.

Nelson, Curtis O., Belleville, Ill. Container closure. 2,161,230; June 6.

Neptune, Herman P., Los Angeles, Calif. Form clamp. 2,161,379; June 6.

Neuhaus, Max. (See Gee, W. P., and Neuhaus.)

Neumann, Leopold, Vienna, Austria, assignor to the firm Ronag A. G., Chur, Switzerland. Accessory attachment for sound recording apparatus. 2,161,231; June 6.

Neumann, Leopold, Vienna, Austria, assignor to the firm Ronag A. G., Bahnhofplatz, Chur, Switzerland. Telephone apparatus. 2,161,232; June 6.

Neuschastle, Edward, assignor of one-third to H. M. Smith and one-tenth to M. C. Clark, Los Angeles, Calif. Robot brake control. 2,161,426; June 6.
Newby, Neal D. (See Moody, D. L., Shipley, and Newby, assignors.)
New Jersey Machine Corporation. (See Von Hofe, George W., assignor.)
New Jersey Optical Company. (See Hood, George A., assignor.)
New Jersey Rubber Company. (See Cowen, Rawson R., assignor.)
News Projection Corporation. (See Eitzen, August D., assignor.)
Newsom, James B. (See Collis, R. E., and Newsom.)
Newsom, Kitchener K., San Francisco, Calif. Container for eggs and the like. 2,160,893; June 6.
Nichols, Harry J., Binghamton, and H. L. Tholstrup, Endwell, assignors to International Business Machines Corporation, New York, N. Y. Communication system. 2,161,586; June 6.
Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,160,894; June 6.
Nicholson, Stanley W., Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich. Door check. 2,160,895; June 6.
Nickerson, William H., Newton Center, Mass. Shoe and shank stiffener therefor. 2,161,188; June 6.
Niles-Bement-Pond Company. (See Rusnak, John M., assignor.)
Nilsson, Håkan D. L., Stockholm, Sweden. Instrument for drawing scales. 2,161,551; June 6.
Noling, Martin N., assignor to Barber-Colman Company, Rockford, Ill. Warp-uniting machine. 2,161,633; June 6.
Noll, Clarence I. (See Whitmore, F. C., Jones, and Noll.)
Norcross, Thomas. (See Murphy, E. A., Round, and Norcross.)
Norton, Clifford, Springfield, N. J., and P. Karmel, assignors to Otis Elevator Company, New York, N. Y. Interlocking mechanism. 2,160,896; June 6.
Norton Company. (See Flygare, Carl G., assignor.)
Norton Company. (See Goehring, Bernhard H., assignor.)
Norton Company. (See Silven, Herbert A., assignor.)
Norton Company. (See Wood, Wallace H., assignor.)
Oak Manufacturing Company. (See Mastney, Edward J., assignor.)
O'Brien, Brian, Rochester, N. Y. Method and apparatus for producing thin wedges. 2,160,981; June 6.
O'Brien, Jerome E., Attleboro, Mass., assignor to Morse Andrews Co. Cuff link construction. 2,161,189; June 6.
O'Donnell, Roland E., Odessa, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Multiple stage cementing. 2,161,309; June 6.
Ohio Rubber Company, The. (See Winegar, Edmund H., assignor.)
Okonite-Callender Cable Company, The. (See Gooding, F. H., and Everest, assignors.)
Oliver, Lee, New York, N. Y., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn. Garment holding clip. 2,160,897; June 6.
Oliver United Filter Incorporated. (See Bowman, Clarence B., assignor.)
O'Neill, Frank E., assignor to M. O. Johnston, Glendale, Calif. Well testing device. 2,161,233; June 6.
Opocensky, Willard J., Long Beach, Calif. Subterranean camera. 2,161,380; June 6.
Oppegaard, Assur G. (See Ancrum, R. W., and Oppegaard.)
Orbeck, Einar M., Muskegon, Mich., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Liquid dispensing apparatus computing registering mechanism. 2,161,765; June 6.
Orr, Francis L., assignor of one-half to A. E. Heichemer, Denver, Colo. System and means for controlling liquid levels in storage batteries. 2,161,776; June 6.
Osborn, Alden E., New York, N. Y., assignor to Radio Corporation of America. Indicator apparatus. 2,161,310; June 6.
Otis Elevator Company. (See Norton, C., and Karmel, assignors.)
Ott, Conrad L., Detroit, Mich., assignor to Landis Tool Company, Waynesboro, Pa. Grinding machine. 2,161,311; June 6.
Ovtschinnikoff, Alexandre, Issy-les-Moulineaux, France. Automatic bomb releasing device. 2,161,081; June 6.
Ovtschinnikoff, Alexandre, Issy-les-Moulineaux, France. Bomb suspension. 2,161,082; June 6.
Owen, Allen F., assignor to Latex Fiber Industries, Inc., Beaver Falls, N. Y. Laminated fiber-rubber sheet material and articles made therefrom. 2,161,083; June 6.
Oxweld Acetylene Company. (See Baker, H. J., and Mesinger, assignors.)
Oxweld Acetylene Company. (See De Motte, Maurice P., assignor.)
Pacific Pump Works. (See Bigelow, G. E., and Weis, assignors.)
Padgett, Joseph E., Toledo, Ohio. Universal joint. 2,161,234; June 6.
Paganello, Nunzio, Brooklyn, assignor to S. Paganello, New York, N. Y. Doll eye. 2,160,982; June 6.
Paganello, Salvator. (See Paganello, Nunzio, assignor.)
Painter, Harry K., Mansfield, assignor to The Bock Machine Company, Cincinnati, Ohio. Mixing and dispensing apparatus. 2,160,983; June 6.
Palm Bros. Decalcomania Co., The. (See Shields, William H., assignor.)
Paper Service Company, The. (See Rowe, William W., assignor.)
Papp, Andrew E., assignor to G & W Electric Specialty Co., Chicago, Ill. Oil fuse cut-out. 2,161,427; June 6.
Papp, Samuel, Lowellville, Ohio. Parachute attachment for airplanes. 2,161,722; June 6.
Parker, Rutledge A. (See Lenz, C. E., Jr., and Parker.)
Passur, Norman, Oakland, Calif. Air conditioning system. 2,160,984; June 6.
Paules, Lemon B. (See Young, W. M., and Paules.)
Paull, Ambrose D., assignor to Wheeling Stamping Company, Wheeling, W. Va. Apparatus for measuring charges of powdered and granular materials. 2,161,190; June 6.
Pearson, John L., Norton-on-Tees, England, assignor to Imperial Chemical Industries, Limited. Apparatus for decomposing ammonia. 2,161,746; June 6.
Peff, Peter, West Orange, N. J. Heat exchange apparatus for rectifying columns. 2,160,898; June 6.
People in the territory of the United States, Dedicated to the free use of the. (See Schaffer, J. M., Harwood, and Webr.)
People of the United States, Dedicated to the free use of the. (See Reineke, Lester H.)
Perkins, Granville A., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Acetylenic alcohol. 2,161,191; June 6.
Peterson, Carl H., and W. V. Moren, Worcester, Mass. Spring machine appliance. 2,161,084; June 6.
Peterson, Edward S. (See Wright, C. O., and Peterson.)
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Directive antenna system. 2,160,899; June 6.
Peterson, Wynford R., Nashville, Tenn. Antenna coupling system. 2,161,192; June 6.
Pettis, Glenn W., Detroit, Mich. Blackboard. 2,161,587; June 6.
Pezzolo, Caesar, San Francisco, Calif. Agricultural digging machine. 2,161,428; June 6.
Pflasterer, George R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Lighting control apparatus. 2,161,681; June 6.
Phalen, William C., Syracuse, assignor to The Solvay Process Company, New York, N. Y. Treatment of wells. 2,161,085; June 6.
Phillips, Roy W., Wichita, Kans. Making identifiable photographs. 2,161,193; June 6.
Pierson, Torvald N., assignor to Gleaner Harvester Corporation, Independence, Mo. Grain pan for harvesting machines. 2,161,634; June 6.
Piker, Maurice L., and S. C. Pool, assignors to Eastman Kodak Company, Rochester, N. Y. Inhibiting of foaming in systems containing gelatine. 2,161,747; June 6.
Pilkington, David K., Sunbury-on-Thames, England, assignor, by mesne assignments, to R. L. Woodhouse, Melbourne, Victoria, Australia. Power transmission device. 2,161,429; June 6.
Piperoux, Rene P., Radburn, N. J., assignor to Celluloid Corporation. Extruded article and device for making same. 2,161,588; June 6.
Pipi, Michael, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Eraser for pencil and holding tip therefor. 2,161,086; June 6.
Pleasants, Clellan R., San Francisco, Calif. Vapor clearing. 2,160,900; June 6.
Ploehn, John H., Bettendorf, Iowa, assignor to French & Hecht, Incorporated. Wheel structure. 2,161,381; June 6.
Plunguian, Mark. (See Samaras, N. N. T., and Plunguian.)
Plym, Francis J., assignor to The Kawneer Company, Niles, Mich. Adjustable andiron. 2,161,194; June 6.
Pokorny, Oldrich S., Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Solvent dewaxing process. 2,160,985; June 6.
Polack, Herber. (See Winter, E., and Polack.)
Pool, Stephen C. (See Piker, M. L., and Pool.)
Poor & Company. (See Disbrow, Clarkson A., assignor.)
Poor & Company. (See Preston, Frederick A., assignor.)
Posthumus, Klaas, and C. G. A. von Lindern, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Oscillator of the magnetron type. 2,161,087; June 6.
Potchen, Joseph A., Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Welding machine. 2,161,430; June 6.
Potts, George W., Fairfield, Iowa. Milk bottle hanger. 2,161,195; June 6.
Power Patents Company. (See Morgan, J. D., and Lowe, assignors.)
Powers, Wilbur F., La Grange, Ill. Power, navigation, and flood control. 2,161,529; June 6.
Prentiss-Wabers Products Co. (See Yeager, Anton J., assignor.)
Preston, Frederick A., Lake Forest, assignor to Poor & Company, Chicago, Ill. Double bearing rail anticreeper. 2,161,484; June 6.
Pritchard, William J., Milford, Conn., assignor to Carrier Corporation, Newark, N. J. Refrigerating apparatus control. 2,161,312; June 6.
Prokopenko, Gustav C., assignor to Everett Experimental & Development Co., Shanghai, China. Steel and iron detector. 2,161,635; June 6.

Prosser, Joseph V., Los Angeles, Calif. Cooking stove. 2,161,196; June 6.
Protin, Edward J., Charlerol, Pa. Thread protector. 2,161,197; June 6.
Puccinelli, Romolo L., Turlock, Calif. Elevator and mixer. 2,161,485; June 6.
Pungs, Leo, Brunswick, Germany. Modulating high frequency transmitters. 2,161,313; June 6.
Pye, David J. (See Hirschkind, W., Pye, and Thompson.)
Pym, Arthur F. (See Eastman, F. C., and Pym.)
Raapke, William C., Omaha, Nebr. Curtain operating means. 2,161,382; June 6.
Rabe, Karl, Stuttgart, assignor to Dr. ing. h. c. F. Porsche, K.-G, Stuttgart-Zuffenhausen, Germany. Spring suspension. 2,161,431; June 6.
Rabenda, Edward J., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Tabulating machine. 2,161,589; June 6.
Radio Corporation of America. (See Banks, George B., assignor.)
Radio Corporation of America. (See Charrier, George M., assignor.)
Radio Corporation of America. (See Dreyer, John F., Jr., assignor.)
Radio Corporation of America. (See Hathaway, Jarrett L., assignor.)
Radio Corporation of America. (See Jones, Loren F., assignor.)
Radio Corporation of America. (See Linsell, Alfred A., assignor.)
Radio Corporation of America. (See Osborn, Alden E., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Rust, Noël M., assignor.)
Radio Corporation of America. (See Smith, Rogers M., assignor.)
Radio Corporation of America. (See Sprague, C. S., and George, assignors.)
Radio Corporation of America. (See Yolles, Jacob, assignor.)
Raduner & Co., A. G. (See Bener, Christian, assignor.)
Rafferty, John, and T. Cowperthwaite, Detroit, Mich. Animal trap. 2,160,986; June 6.
Railroad Research Bureau of the Manufacturing Companies of the United States Steel Corporation, The. (See Hammerstrom, Karl R., assignor.)
Ramsey, Allan. (See Tripiett, H. A., and Ramsey.)
Rand, James H., Jr., Stamford, and A. M. Ross, Greenwich, Conn., assignors to Remington Rand Inc., Buffalo, N. Y. Mechanical razor. 2,160,987; June 6.
Randall, King, and M. Fleishman, Erie, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y. Switch and signal mechanism for tracks and vehicle toys. 2,161,314; June 6.
Rankin, William K., Lansdowne, and J. R. Brossman, Yeadon, Pa., assignors to General Electric Company. Protectively coating aluminum or aluminum alloys. 2,161,636; June 6.
Raphael, Abner, Brooklyn, N. Y. Window construction. 2,161,637; June 6.
Ratner, Abraham, East Orange, and M. E. Anderson, Newark, N. J. Skylight construction. 2,160,901; June 6.
Raymond, Charles A., Marion, Ohio. Manufacturing food product. 2,160,902; June 6.
Rechnitzer, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Filter network for radio receivers. 2,161,315; June 6.
Reda Pump Company. (See Arutunoff, Armais, assignor.)
Reder, Charles. (See Gauthey, Louis A., assignor.)
Reed Roller Bit Company. (See Gignoux, Frank C., assignor.)
Reed Roller Bit Company. (See Mackenzie, D., and Hoffoss, assignors.)
Rees, Frank H., assignor to Continental Oil Company, Ponca City, Okla. Pyrometer well. 2,161,432; June 6.
Reflectone Corporation. (See Simjian, Luther G., assignor.)
Reher, Frederick W. (See Dempsey, M. J., and Reher.)
Reilly, Frank C., New York, and P. M. Carter, White Plains, N. Y., and D. F. Linsley, Norwalk, Conn., assignors to Vaco Products, Inc. Automotive mechanism. 2,161,088; June 6.
Reilly, John H., and R. M. Wiley, assignors to The Dow Chemical Company, Midland, Mich. Polymeric vinylidene chloride. 2,160,903; June 6.
Reilly, John H., and R. M. Wiley, assignors to The Dow Chemical Company, Midland, Mich. Plastic derivatives of vinylidene chloride. 2,160,904; June 6.
Reilly, John H., and C. R. Russell, assignors to The Dow Chemical Company, Midland, Mich. Polymerizing vinylidene chloride. 2,160,936; June 6.
Reilly, John H., assignor to The Dow Chemical Company, Midland, Mich. Polymerizing vinylidene chloride. 2,160,937; June 6.
Reilly, John H., and R. M. Wiley, assignors to The Dow Chemical Company, Midland, Mich. Polymerizing vinylidene halides. 2,160,938; June 6.
Reinhardt, Robert C., assignor to The Dow Chemical Company, Midland Mich. Vinylidene chloride co-polymers. 2,160,947; June 6.
Reinhardt, Willard L., Shaker Heights, and L. E. Wells, Cleveland Heights, assignors to Willard Storage Battery Company, Cleveland, Ohio. Microporous diaphragm. 2,161,383; June 6.
Reinartz, Robert, Offenbach, near Frankfort-on-the-Main, assignor, by mesne assignments, to Faber & Schleicher, A. G., Offenbach-on-the-Main, Germany. Sheet feeding mechanism. 2,160,905; June 6.
Reinartz, Robert, Offenbach, near Frankfort-on-the-Main, assignor, by mesne assignments, to Faber & Schleicher, A. G. Offenbach-on-the-Main, Germany. Sheet feeding and registering device. 2,160,906; June 6.
Reineke, Lester H., New Haven, Conn., dedicated to the free use of the People of The United Stats. Holding instrument. 2,160,988; June 6.
Reiner, Laszlo, Mount Vernon, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Insulin preparation. 2,161,198; June 6.
Reinhardt, Robert C., assignor to The Dow Chemical Company, Midland, Mich. Polymerization of vinylidene halides. 2,160,939; June 6.
Reinwald, Hans, New York, N. Y. Ham boiler. 2,161,089; June 6.
Remington Arms Company. (See Loomis, Crawford C., assignor.)
Remington Rand Inc. (See Benner, Russell E., assignor.)
Remington Rand Inc. (See Going, George G., assignor.)
Remington Rand Inc. (See Rand, J. H., Jr., and Ross, assignors.)
Rhein, Lloyd R., Pleasant Ridge, and A. S. Greif, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window regulator for a swinging window. 2,161,199; June 6.
Rhoads, Byron E. (See Miller, J. S., and Rhoads.)
Rhodes, Albert J. (See McGregor, T. A., and Rhodes.)
Rice, Harold D. (See Gremmel, H. F., and Rice.)
Richardson, Earle E., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Filter for ultra-violet light. 2,160,907; June 6.
Richert, Paul H., Fresno, assignor to N. A. Maclean, San Francisco, Calif. Dispensing apparatus. 2,161,090; June 6.
Rickard, William S., Chicago, Ill. Head rest for basins and the like. 2,161,590; June 6.
Rider, Ernest H., Stockton, Calif. Street plate for tractors. 2,161,486; June 6.
Rigler, Rudolf. (See Lautenschlager, C. L., Lindner, Rigler, and Schaumann, assignors.)
Rinfret, Maurice, Sunnyside, Long Island, N. Y. Tire pressure regulator and automatic pumping mechanism. 2,161,384; June 6.
Ringer, Ferdinand, Vienna, Austria. Solid fuel for lighters. 2,161,385; June 6.
Ringer, Ferdinand, Vienna, Austria. Cigar lighter. 2,161,386; June 6.
Ritchie, David M. (See Schoepf, T. H., and Ritchie.)
Ritz-Woller, Oliver C., Chicago, Ill. Rear view mirror. 2,161,433; June 6.
Roberts, Elliott J., Westport, Conn., and R. W. Shafor, New York, N. Y. Manufacture of finely divided precipitates. 2,161,651; June 6.
Roberts, Elliott J., Westport, Conn. Manufacture of barium sulphate. 2,161,652; June 6.
Robinette, Willard C., Pasadena, Calif. Pipe wrapping machine. 2,161,530; June 6.
Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wire straightening device. 2,160,908; June 6.
Robinson, Edwin A. (See Imray, H. H., Jr., and Robinson.)
Rockola, David C. (See Hitzeman, Arthur C., assignor.)
Rockola, David C., Chicago, Ill. Check separator. 2,161,091; June 6.
Rock-Ola Manufacturing Corp. (See Hutter, William H., assignor.)
Rodemeyer, Edward, Hampton, Iowa. Drawbar. 2,161,387; June 6.
Rogers, Colman P., Santa Barbara, Calif. Windshield wiper. 2,161,682; June 6.
Rogowski, Walter, Aachen-Siegel, and F. A. Becker, Aachen, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Cathode ray tube. 2,161,316; June 6.
Ronag A. G. (See Neumann, Leopold, assignor.)
Rose, Edwin L. (See Doe, T. B., Rose, and Grosser.)
Rose, Joseph P., Poughkeepsie, and F. L. Russell, assignors to Saugerties Manufacturing Co., Saugerties, N. Y. Book construction. 2,161,591; June 6.
Rosenmund, Alfred L., Rockaway, N. J., assignor to Stapling Machines Co. Machine for making wired box parts. 2,161,200; June 6.
Rosenthal, Morris G., Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Overhead carrier system. 2,161,388; June 6.
Ross, Albert M. (See Rand, J. H., Jr., and Ross.)
Ross, Cecil L., Upper Montclair, N. J. Recording device. 2,160,909; June 6.
Rossander, Swanie S. (See Mathieu, H. W., and Rossander.)
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 2,161,638; June 6.
Rotary Seal Co. (See Gilman, George P., assignor.)
Round, Albert A. (See Murphy, E. A., Round, and Norcross.)

Rowe, William W., Cincinnati, assignor to The Paper Service Company, Lockland, Ohio. Process and machine for making composite creped products. 2,161,092; June 6.
Rowley, Russell A., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine. 2,161,592; June 6.
Royal Electric Company. (See Muncheryan, Hrand M., assignor.)
Rubber Products, Inc. (See Carter, Mitchell, assignor.)
Rubinstein, Harry, Brooklyn, N. Y. Treating yarns and fabrics made therefrom. 2,160,989; June 6.
Rugeley, Edward W., T. A. Feild, Jr., and J. F. Conlon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Synthetic fiber. 2,161,766; June 6.
Runge, Wilhelm. (See Scharlau, H., Runge, Buschbeck, and Fritz.)
Runton, Leslie A., Andover, Mass. Machine for winding textile strands. 2,160,910; June 6.
Rusnak, John M., West Hartford, assignor to Niles-Bement-Pond Company, Hartford, Conn. Brake for a die sinking machine. 2,161,683; June 6.
Russell, Cass B., Detroit, Mich., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Grease retainer with securing lug. 2,161,767; June 6.
Russell, Charles R. (See Reilly, J. H., and Russell.)
Russell, Fabian L. (See Rose, J. P., and Russell.)
Russell, Robert P., Elizabeth, N. J., assignor to Standard Oil Development Company. Flushing oil. 2,160,911; June 6.
Rust, Noël M., Chelmsford, England, assignor to Radio Corporation of America. Band-pass filter. 2,161,593; June 6.
Ruth, John H., Brooklyn, N. Y. Counterfeit money detector. 2,161,594; June 6.
Rutland, Jesse E., Lenox, assignor of one-half to J. B. Boyett, Nashville, Ga. Fireplace heater. 2,161,723; June 6.
Ruzicka, Leopold, Zurich, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Polynuclear cyclic ketones and preparing same. 2,161,389; June 6.
Ryisky, Gregory V., New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Relief valve. 2,161,531; June 6.
Sachanen, Alexander N., and P. G. Waldo, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, New York, N. Y. Oxidation inhibitor and preparing same. 2,161,317; June 6.
Saegebarth, Erich. (See Terres, E., Moos, and Saegebarth.)
Sagner, Walter T., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Bookkeeping machine stand. 2,160,990; June 6.
Sakren, Benjamin, Brooklyn, N. Y., and W. G. Levine, Miami Beach, Fla. File. 2,161,532; June 6.
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Rubber package fabrication. 2,161,093; June 6.
Samaras, Nicholas N. T., and M. Plunguian, Dayton, assignors to The Mead Corporation, Chillicothe, Ohio. Molding process and material. 2,161,748; June 6.
Samaras, Nicholas N. T., Dayton, and M. Plunguian, assignors to The Mead Corporation, Chillicothe, Ohio. Molding process and materials. 2,161,749; June 6.
Samson Tire & Rubber Corporation. (See Miller, G. C., and Sourwine, assignors.)
Sapp, Robert W. (See Coleman, G. H., and Sapp.)
Sargent, William D., New York, and C. G. Keller, Hyde Park, N. Y. Brake drum. 2,160,912; June 6.
Sarnes, Lowell F., assignor to Monarch Governor Company, Detroit, Mich. Mirror assembly for an automobile body. 2,161,777; June 6.
Sauerland, Alfred, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Magnetic system for dynamic loudspeakers. 2,161,318; June 6.
Saugerties Manufacturing Co. (See Rose, J. P., and Russell, assignors.)
Saunders, Walter C., Jr., Richmond, Va. Fish lure. 2,161,094; June 6.
Schacke, Bernhard. (See Vollmann, H., and Schacke.)
Schaefer, Joseph J., Germantown, assignor to The Sharples Solvents Corporation, Philadelphia, Pa. Plasticizer. 2,161,201; June 6.
Schaffer, Charles S., Chicago, Ill. Screw driver. 2,161,095; June 6.
Schaffer, Jacob M., Laurel, P. D. Harwood, College Park, and E. E. Wehr, Takoma Park, Md., dedicated to the free use of the People in the territory of the United States. Parasiticide. 2,161,261; June 6.
Schamberger, Friedrich. (See Grimm, H. G., and Schamberger.)
Schamberger, Friedrich, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Well-covering coating composition. 2,161,319; June 6.
Scharfenberg, Karl, Berlin-Nicolassee, Germany. Automatic car coupler. 2,161,724; June 6.
Scharlau, Hans. (See Gerhard, E., and Scharlau.)
Scharlau, Hans, W. Runge, W. Buschbeck, and K. Fritz, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Relaying. 2,160,913; June 6.
Schaumann, Otto. (See Lautenschläger, C. L., Lindner, Rigler, and Schaumann, assignors.)
Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Conical-type stone crusher. 2,161,096; June 6.
Schild, Heinz. (See Steindorff, A., Balle, Horst, and Schild.)
Schlagintweit, George. (See Schlagintweit, Hermann, assignor.)
Schlagintweit, Hermann, assignor to G. Schlagintweit, West Orange, N. J. Atomizer or dispersing device. 2,161,235; June 6.
Schleimer, Floyd V., assignor to United States Appliance Corporation, San Francisco, Calif. Hair waving apparatus. 2,161,202; June 6.
Schleimer, Floyd V., assignor to United States Appliance Corporation, San Francisco, Calif. Hair waving device. 2,161,203; June 6.
Schmalstieg, William H., Wheeling, W. Va. Coupling pin. 2,161,390; June 6.
Schmidt, Edmund T. H., Chicago, Ill. Basket. 2,161,639; June 6.
Schmidt, Hermann H., Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo. Blending materials and applying blended materials to cereals. 2,160,914; June 6.
Schmitt, Arthur J., Chicago, Ill. Radio socket. 2,161,487; June 6.
Schneider, Kurt R. (See Doty, C. R., Schneider, and Holt.)
Schneider, Kurt R. (See Fitch, C. J., and Schneider.)
Schnell, Steve, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking mechanism. 2,161,640; June 6.
Schnell, Steve, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking mechanism. 2,161,641; June 6.
Schoepf, Theodore H., and D. M. Ritchie, assignors to The Cincinnati Traction Building Co., Cincinnati, Ohio. Magnetic track brake. 2,161,684; June 6.
Schoepf, Theodore H., and D. M. Ritchie, assignors to The Cincinnati Traction Building Company, Cincinnati, Ohio. Apparatus for shock absorbers for articulated trunnions. 2,161,685; June 6.
Schoepf, Theodore H., and D. M. Ritchie, assignors to The Cincinnati Traction Building Co., Cincinnati, Ohio. Air conditioning apparatus for railway vehicles. 2,161,686; June 6.
Schoepf, Theodore H., and D. M. Ritchie, assignors to The Cincinnati Traction Building Company, Cincinnati, Ohio. Apparatus for maintaining adjacent railway cars on a level plane. 2,161,687; June 6.
Scholander, Axel. (See Moecker, H., Jr., Lotter, Scholander, and Brumbaugh.)
Scholz, Max, Wilhelmshagen, near Berlin, and A. Wagenitz, assignors to H. Heine, Berlin, Germany. Protecting wooden propellers. 2,161,533; June 6.
Schonwald, William. (See Davis, W. E., and Schonwald.)
Schonwald, William, assignor to Middleby-Marshall Oven Co., Chicago, Ill. Tray leveling device. 2,161,750; June 6.
Schramm, Incorporated. (See Gustafson, Alfred N., assignor.)
Schreiber-Gastell, Richard. (See Formhals, Anton, assignor.)
Schreiber, William, assignor to The Atlantic Refining Company, Philadelphia, Pa. Lubricant. 2,160,915; June 6.
Schröder-Nielsen, Thorolf, Horten, Norway. Closure for bottles and the like. 2,161,097; June 6.
Schubert, Alvin E., assignor to Eastman Kodak Company, Rochester, N. Y. Film winding mechanism. 2,161,391; June 6.
Schultz, Raymond J., assignor to Madison-Kipp Corporation, Madison, Wis. Die casting machine. 2,161,534; June 6.
Schultze, Paul, assignor to Doran Bros., Inc., Danbury, Conn. Hat-brim flanging machine. 2,161,434; June 6.
Schulze-Herringen, Erich, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof (Germany), Lorenzweg. Modulation system for radio transmitters. 2,161,320; June 6.
Schwartz, Louis H., assignor to W. A. Arnesen, New York, N. Y. Transilluminating device. 2,161,688; June 6.
Schwartz, Russell P., Rochester, N. Y. Shoe construction and last. 2,160,991; June 6.
Schwarz, Richard. See Heck, L., and Schwarz.)
Schwarzenbach, Clarence, and H. Demmitt, Catonsville, Md. Window shade housing. 2,161,535; June 6.
Schweitzer & Conrad, Inc. (See Triplett, H. A., and Ramsey, assignors.)
Schweizerische Lokomotiv-und Maschibabfabrik. (See Dürig, Alfred, assignor.)
Sclocco, Adolph, Trenton, N. J. Combination drafting tool. 2,161,098; June 6.
Scophony Limited. (See Jeffree, John H., assignor.)
Separation Process Company. (See Breerwood, C. H., and Williams, assignors.)
Serata, Morris M. (See Haines, William D., assignor.)
Shafor, Ralph W. (See Roberts, E. J., and Shafor.)
Shanley, William C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Vacuum breaker. 2,161,204; June 6.
Sharples Solvents Corporation, The. (See Schaefer, Joseph J., assignor.)

Shaw, Albert E., Chicago, Ill. Drafting instrument. 2,161,236; June 6.
Shawmut Engineering Company. (See Hathaway, E. F., and Bixby, assignors.)
Shepard, Frederick J., Jr., West Newton, and N. Warshaw, Belmont, assignors to Lewis-Shepard Company, Watertown, Mass. Selectively operable mechanically and fluid actuated lifting truck. 2,161,659; June 6.
Shepard, Frederick J., Jr., West Newton, and N. Warshaw, Belmont, assignors to Lewis-Shepard Company, Watertown, Mass. Elevating truck having pedal operated fluid actuated lifting mechanism. 2,161,660; June 6.
Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Paper feeding mechanism. 2,160,916; June 6.
Shields, William H., assignor to The Palm Bros. Decalcomania Co., Cincinnati, Ohio. Ink. 2,161,205; June 6.
Shipley, Frank F. (See Moody, D. L., Newby, and Shipley, assignors.)
Shive, Roy A., Bound Brook, J. E. Coffee, East Orange, and R. H. Kienle, assignors to The Calco Chemical Company, Inc., Bound Brook, N. J. Rotogravure ink. 2,161,751; June 6.
Shoemaker, Bernard H. (See Loane, C. M., and Shoemaker.)
Shoemaker, Bernard H., and C. M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,160,917; June 6.
Shuey, James N., Everett, Wash. Holding valve. 2,161,099; June 6.
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Fischel, Eduard, assignor.)
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Koster, Paul E., assignor.)
Sierk, Raymond H., Whitestone, N. Y. Third rail contact shoe. 2,161,100; June 6.
Silex Company, The. (See Wolcott, Frank E., assignor.)
Sliven, Herbert A., assignor to Norton Company, Worcester, Mass. Work holder crankpin grinder. 2,161,206; June 6.
Simjian, Luther G., assignor to Reflectone Corporation, New Haven, Conn. Pose reflecting apparatus. 2,161,262; June 6.
Simjian, Luther G., assignor to Reflectone Corporation, New Haven, Conn. Variable image-observing device. 2,161,263; June 6.
Simjian, Luther G., assignor to Reflectone Corporation, New Haven, Conn. Pose reflecting system. 2,161,264; June 6.
Simms, James H., Kansas City, Mo. Door closer and check. 2,161,101; June 6.
Sinclair Refining Company. (See Miller, A. E., and Chenault, assignors.)
Sinclair Refining Company. (See Miller, A. E., and Lord, assignors.)
Singer Manufacturing Company, The. (See Kaier, Richard.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singh, Alamjit D. (See Johnstone, H. F., and Singh.)
Skiliris, Loukas, Belmar, N. J. Combination slicing and shelling machine. 2,161,237; June 6.
Slagh, Harold R. (See Wiley, R. M., Alquist, and Slagh.)
Slaght, William W. (See Smith, W. J., and Slaght.)
Smith, A. O., Corporation. (See Leja, Alfred H., assignor.)
Smith, Anthony N. (See McKeige, E. E., and Smith.)
Smith, Campbell H., assignor to J. Allen Smith & Company, Knoxville, Tenn. Process of and apparatus for bleaching flour. 2,160,918; June 6.
Smith, Earl C., Malin, Oreg. Earth scraper and digger. 2,161,102; June 6.
Smith, Francisco S., Mayaguez, P. R. Cloth cutting machine standard protector. 2,161,103; June 6.
Smith, George S., Oakland, Calif. Metallic coating material and applying the same. 2,161,104; June 6.
Smith, Harry F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,161,321; June 6.
Smith, Henry M., et al. (See Neuchastle, Edward, assignor.)
Smith, J. Allen, & Company. (See Smith, Campbell H., assignor.)
Smith, Raymond D., Pleasantville, N. Y., assignor to Tremont Products Corporation, Boston, Mass. Spring motor speed control. 2,161,207; June 6.
Smith, Rogers M., Merchantville, N. J., assignor to Radio Corporation of America. Antenna system for motor vehicles. 2,161,435; June 6.
Smith, S. Morgan, Company. (See Whisler, Grant C., assignor.)
Smith, Sidney L., Pittsburgh, Pa. Mop assembly. 2,161,725; June 6.
Smith, William J., and W. W. Slaght, Rocky River, assignors to Cleveland Steel Products Corporation, Cleveland, Ohio. Oil burning apparatus. 2,161,436; June 6.
Smitmans, John A., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Sleeve-type rolling bearing. 2,161,768; June 6.
Society of Chemical Industry in Basle. (See Ruzicka, Leopold, assignor.)
Socony-Vacuum Oil Company. (See Fuller, Everett W., assignor.)
Socony-Vacuum Oil Company. (See McCarty, Malcolm D., assignor.)
Socony-Vacuum Oil Company. (See Minton, John P., assignor.)
Socony-Vacuum Oil Company. (See Moran, R. C., and Fuller, assignors.)
Socony-Vacuum Oil Company. (See Sachanen, A. N., and Waldo, assignors.)
Sochor, Zdeněk, and A. Kvasnicka, Dvur Kralove n. L., Czechoslovakia, and S. Morch, Rydboholm, Sweden; said Morch and said Kvasnička assignors to said Sochor. Ager for treating printed and like fabrics. 2,161,726; June 6.
Sochor, Zdeněk, Dvur Kralove n. L., Czechoslovakia. Weft feeler mechanism for looms. 2,161,727; June 6.
Soderholm, Carl J., Minneapolis, Minn. Washing process. 2,161,208; June 6.
Solvey Process Company, The. (See Phalen, William C., assignor.)
Sonneborn, L., Sons, Inc. (See Faust, Jacob, assignor.)
Sonneborn, L., Sons, Inc. (See Kinsel, Anton, assignor.)
Sordoillet, Pierre, Paris, France. Navigating instrument. 2,161,536; June 6.
Sourwine, Robert C. (See Miller, G. C., and Sourwine.)
Sparks, John, et al., executor. (See Strauss, Joseph B., assignor.)
Sprague, Carlton S., and R. H. George, West Lafayette, Ind., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Cathode ray deflecting electrode. 2,161,437; June 6.
Sperry Gyroscope Company. (See Bates, Mortimer F., assignor.)
Squibb, E. R., & Sons. (See Christiansen, Walter G., assignor.)
Stahlhammer, Eric J., assignor to The Bodine Corporation, Bridgeport, Conn. Threading spindle. 2,161,265; June 6.
Standard Alcohol Company. (See Gilliland, Edwin R., assignor.)
Standard Oil Company. (See Arveson, Maurice H., assignor.)
Standard Oil Company. (See Loane, C. M., and Shoemaker, assignors.)
Standard Oil Company. (See Shoemaker, B. H., and Loane, assignors.)
Standard Oil Company. (See Voorhees, Vanderveer, assignor.)
Standard Oil Development Company. (See Blau, L. W., and Statham, assignors.)
Standard Oil Development Company. (See Pokorny, Oldrich S., assignor.)
Standard Oil Development Company. (See Russell, Robert P., assignor.)
Standard Oil Development Company. (See Warner, J. P., and Voorhees, assignors.)
Standard Oil Development Company. (See Wiezevich, Peter J., assignor.)
Standard Oil Development Company. (See Whiteley, J. M., and Vesterdal, assignors.)
Standard Oil Development Company. (See Williams, Milton, assignor.)
Stanolind Oil and Gas Company. (See Clark, Joseph B., assignor.)
Stanton, James H., Vancouver, British Columbia, Canada. Preserve base. 2,161,238; June 6.
Stapling Machine Co. (See Rosenmund, Alfred L., assignor.)
Statham, Louis. (See Blau, L. G., and Statham.)
Stator Corporation. (See Whitney, Lyman F. and W. E., assignors.)
Staynew Filter Corporation. (See Dollinger, Lewis L., assignor.)
Steindorff, Adolf, and G. Balle, Frankfort-on-the-Main, K. Horst, Hofheim in Taunus, and H. Schild, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. C-Aliphatic isocyclic amines N-substituted by oxyaliphatic radicals. 2,161,322; June 6.
Steliers Neyret-Reylier & Piccard-Pictet. (See Danel, Pierre F., assignor.)
Stephenson, Samuel S., New York, assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Latch mechanism for desk tops. 2,161,323; June 6.
Stevens, Donald R., Swissvale, and W. A. Gruse, Wilkinsburg, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Polymerization of olefins. 2,161,392; June 6.
Stewart, Amasa E., Utica, N. Y. Joint filling machine for bitumen filler. 2,161,488; June 6.
Steyr-Daimler-Puch A. G. (See Hacker, Oskar, assignor.)
Stiner, Clarence B., New York, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Wrapper and packaged article. 2,161,595; June 6.
Stiner, Clarence B., New York, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Wrapper and packaged article. 2,161,596; June 6.
Stockstrom, Arthur, and A. H. Brodbeck, assignors to American Stove Company, St. Louis, Mo. Gas range construction. 2,161,537; June 6.
Stop Motion Devices Corporation. (See Vossen, Edward, assignor.)
Storm, Hans O., Palo Alto, assignor to Globe Wireless Ltd., San Francisco, Calif. High speed recording system. 2,160,919; June 6.

Stout Engineering Laboratories, Inc. (See Stout, William B., assignor.)

Stout, William B., assignor, by mesne assignments, to Stout Engineering Laboratories, Inc., Dearborn, Mich. Ventilator. 2,161,728; June 6.

Strandberg, Joel G., assignor to The United States Bedding Company, St. Paul, Minn. Machine for cutting and fastening helical springs. 2,161,689; June 6.

Strauss, Annette, et al., executors. (See Strauss, Joseph B., assignor.)

Strauss, Joseph B., deceased, San Francisco, Calif.; A. Strauss, J. Sparks, and H. Clausen, executors. Rapid transit system. 2,161,105; June 6.

Strauss, Joseph B., deceased, San Francisco, Calif.; A. Strauss, J. Sparks, and H. C. Clausen, executors. Dual trafficway. 2,161,106; June 6.

Strawn, Marion L., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Control for machine tools. 2,160,920; June 6.

Streitwolf, Frieda, administratrix. (See Streitwolf, Karl, Fehrle, and Herrmann.)

Streitwolf, Karl, deceased (by F. Streitwolf, administratrix), Frankfort-on-the-Main, and A. Fehrle, Bad Soden in Taunus, and W. Herrmann, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Asymmetric arseno compounds. 2,161,538; June 6.

Stroop, John H., New York, N. Y., assignor of one-half to R. B. Kingman, Orange, N. J. Cleaning applicator. 2,160,921; June 6.

Stroup, Fred H., Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Distributing valve. 2,161,642; June 6.

Stroup, Philip T. (See Alden, J. H., Stroup, and Budge.)

Strübig, Heinrich, Teltow, near Berlin, Gartenstadt Seehof, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Television picture analyzer. 2,161,643; June 6.

Sturtevant, B. F., Company. (See Hagen, Harold F., assignor.)

Sturtevant, B. F., Company. (See Morton, Harry E., assignor.)

Sullivan, Donnell A., Dearborn, Mich. Intake manifold. 2,160,922; June 6.

Sullivan, John D., assignor to Battelle Memorial Institute, Columbus, Ohio. Refractory material. 2,160,923; June 6.

Sullivan John D., assignor to Battelle Memorial Institute, Columbus, Ohio. Refractory material. 2,160,924; June 6.

Sullivan Machinery Company. (See Joy, Joseph F., assignor.)

Sundstrand Machine Tool Co. (See Granberg, Bengt R., assignor.)

Sun Tube Corporation, The. (See Fridén, John H., assignor.)

Swartz, Carl E., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bonding powdered metallic material. 2,161,597; June 6.

Swartz, Thomas J., South Orange, N. J., assignor to The Thomas Textile Co., Inc., New York, N. Y. Diaper. 2,161,539; June 6.

Swingle, Donald R., assignor to Cumberland Case Co., Chattanooga, Tenn. Container structure. 2,161,107; June 6.

Sylvania Industrial Corporation. (See Dalton, Schuyler N., assignor.)

Sylvania Industrial Corporation. (See Stiner, Clarence B., assignor.)

Tager, Charles I., New York, N. Y. Supply package for stapling machines. 2,161,540; June 6.

Taylor, Fred L. (See Britton, E. C., and Taylor.)

Taylor, Fred L. (See Britton, E. C., Davis, and Taylor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Gerhard, E., and Scharlau, assignors.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Gothe, Albrecht, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Rechnitzer, Rudolf, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Sauerland, Alfred, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. See Scharlau, H., Runge, Buschbeck and Fritz, assignors.)

Teller, W. Kedzie. (See Doering, C., and Teller.)

Temple, Harold F., Freeport, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Stripper for collapsible tube extruding presses. 2,161,752; June 6.

Ternstedt Manufacturing Company. (See Rhein, L. R., and Greif, assignors.)

Terres, Ernst, Berlin, Germany, J. Moos, New York, and E. Saegebarth, Jackson Heights, N. Y., assignors to Edeleanu Gesellschaft, m. b. H. Refining hydrocarbon oils by means of halogen compounds. 2,161,753; June 6.

Terry, Herbert, & Sons Limited. (See Carwardine, George, assignor.)

Terry, Matson C., New Rochelle, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Air conditioning apparatus. 2,161,438; June 6.

Teves, Marten C. (See de Boer, J. H., and Teves.)

Texas Company, The. (See Dearborn, Richard J., assignor.)

Texas Company, The. (See Gee, W. P., and Neuhaus, assignors.)

Texas Company, The. (See Gross, Howard H., assignor.)

Texas Company, The. (See Hendrey, Waldersee B., assignor.)

Texas Company, The. (See Kemp, Lebbeus C., assignor.)

Texas Company, The. (See Kendall, Marcus T., assignor.)

Texas Company, The. (See Knowles, Edwin C., assignor.)

Texas Company, The. (See Kuhn, Wayne E., assignor.)

Texas Company, The. (See Towne, Charles C., assignor.)

Textile Machine Works. (See Anke, Rudolph, assignor.)

Textile Machine Works. (See Gastrich, Gustav, assignor.)

Theiss, Harry W. (See Hill, J. H., and Theiss.)

Tholstrup, Henry L. (See Nichols, H. J., and Tholstrup.)

Thoma, Hans, Karlsruhe-Baden, Germany. Control mechanism for hydraulic transmissions and pumps. 2,161,439; June 6.

Thomas, Henry H., Clinton, Iowa. Locomotive cab window. 2,161,108; June 6.

Thomas, Henry J., Gorseinon, Swansea, South Wales. Ashtray. 2,161,109; June 6.

Thomas, John W., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Packaging mechanism. 2,160,992; June 6.

Thomas, Samuel E., assignor to Holston Manufacturing Company, Knoxville, Tenn. Yarn changing mechanism for circular knitting machines. 2,161,324; June 6.

Thomas Textile Co., The. (See Swartz, Thomas J., assignor.)

Thompson, Earl G. (See Hirschkind, W., Pye, and Thompson.)

Thompson, James D., Eureka, Calif. Mounting or carrier for blades or knives for pug mills or other mixing apparatus. 2,160,925; June 6.

Thompson, Joseph I. (See Bolek, F. J., and Levis, assignors.)

Thomson, Leroy A., assignor to Bump Pump Company, La Crosse, Wis. Fluid pump. 2,161,729; June 6.

Thomson, Peter, Wilmington, Del. Support for Scaffolds. 2,161,239; June 6.

Thorpe, Melvin A. (See Whitmore, F. C., and Thorpe.)

Tintner, Fritz, Vienna, Austria. Transport apparatus for stretchers and the like. 2,161,541; June 6.

Titan Company Inc. (See Anerum, R. W., and Oppegaard, assignors.)

Titus, Harry W., Uniontown, Pa. Door holder or latch. 2,161,542; June 6.

Todd, Erle E. (See Keep, G. A., and Todd.)

Tomlinson, George H., Westmount, Quebec, Canada, and L. S. Wilcoxson, Ridgewood; said Wilcoxson assignor to The Babcock & Wilcox Company, Newark, N. J. Method of and apparatus for burning waste liquor. 2,161,110; June 6.

Torburn, Gustav P., Oakland, assignor of one-half to L. E. Cartmill, Palo Alto, Calif. Collapsibe ice bunker. 2,160,993; June 6.

Torkelson, Torkel E., Baldwin, assignor to International Business Machines Corporation, New York, N. Y. Card sensing device. 2,161,598; June 6.

Towne, Charles C., Beacon, assignor to The Texas Company, New York, N. Y. Preparation of synthetic resins. 2,161,599; June 6.

Transit Research Corporation. (See Hirshfeld, Clarence F., assignor.)

Trask, Allen, assignor to Mills Novelty Company, Chicago, Ill. Discharge valve for compressors and the like. 2,161,769; June 6.

Traylor Engineering and Manufacturing Company. (See Cheesman, Richard D., assignor.)

Traylor Vibrator Company, The. (See Francis, Earle V., assignor.)

Tremont Products Corporation. (See Smith, Raymond D.)

Triplett, Hugh A., Wilmette, and A. Ramsey, Evanston, assignors to Schweitzer & Conrad, Inc., Chicago, Ill. Circuit interrupter housing. 2,160,926; June 6.

Trobridge, Geoffrey W. (See Murphy, E. A., Trobridge, and Ward.)

Trumbull Electric Manufacturing Company, The. (See Carlson, John E., assignor.)

Trumbull Electric Manufacturing Company, The. (See Harvey, Frank, assignor.)

Trumbull Electric Manufacturing Company, The. (See Weiger, Donald M., assignor.)

Tuchmann, Louis B. and S. J., Norfolk, Va. Abrading apparatus. 2,161,112; June 6.

Tuchmann, Sidney J. (See Tuchmann, Louis B. and S. J.)

Turchenko, Theodore, Lisle, Ill. Device for treating honey. 2,161,113; June 6.

Tussing, Glen H., San Benito, Tex. Make-up mirror. 2,161,730; June 6.

Tye, James P., Albany, Ga. Blood pressure cuff. 2,161,393; June 6.

Underwood Elliott Fisher Company. (See Sagner, Walter T., assignor.)

Union Trust Company, executors. (See Fielding, John.)

Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)

Union Switch & Signal Company, The. (See Pflasterer, George R., assignor.)

United Engineering and Foundry Company. (See Smitmans, John A., assignor.)

United Metal Box Co. (See Hammer, Samuel, assignor.)

United Shoe Machinery Corporation. (See Boulton, George and J. B., assignors.)

United Shoe Machinery Corporation. (See Burger, Joseph, assignor.)

United Shoe Machinery Corporation. (See Duran, John A., assignor.)

United Shoe Machinery Corporation. (See Eastman, F. C., and Pym, assignors.)

United Shoe Machinery Corporation. (See Hubbard, Arthur R., assignor.)

United Shoe Machinery Corporation. (See Keall, Frank B., assignor.)

United Shoe Machinery Corporation. (See Lane, H., and Bray, assignors.)

United Shoe Machinery Corporation. (See La Valle, Dominick, assignor.)

United Shoe Machinery Corporation. (See Robinson, Charles A., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Appliance Corporation. (See Schleimer, Floyd V., assignor.)

United States Bedding Company, The. (See Strandberg, Joel G., assignor.)

United States Cabinet Bed Co. (See Martin, Joseph, assignor.)

United States Rubber Company. (See Gremmel, H. F., and Rice, assignors.)

United States Rubber Company. (See Wikle, George F., assignor.)

Universal Button Fastening & Button Company. (See Bowen, Merlin L., assignor.)

Universal Royalty and Development Company, The. (See Schmidt, Hermann H., assignor.)

Vaco Products, Inc. (See Reilly, F. C., Carter, and Linsley, assignors.)

Vanderbilt, Byron M., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Esters of phthalic acid. 2,161,552; June 6.

Vanderbilt, R. T., Company. (See Ball, John M., assignor.)

Van der Grinten, Lodewijk P. F., assignor to Naamlooze Vennootschap Chemische Fabriek L. van der Grinten, Venlo, Netherlands. Method and means for mensuring radiant energy. 2,161,644; June 6.

Van Dyke, Russell H. (See Brooker, L. G. S., and Van Dyke.)

Van Geel, Willem C., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electrode system for rectifying or controlling high or intermediate frequency oscillations. 2,161,600; June 6.

Van Geel, Willem C., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electrode system. 2,161,601; June 6.

Van Harpen, Nicolaas H., Medan, Sumatra, assignor to Algemeene Vereeniging Van Rubberplanters Ter Oostkust Van Sumatra, Sumatra, Netherlands East Indies. Preparing a concentrated rubber dispersion from latex and product. 2,161,731; June 6.

Varik, Louis, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Frame for a glider or the like. 2,160,927; June 6.

Velsko, James. (See Avery, C. W., and Velsko.)

Venrick, Emmett E., assignor to American Asphalt Roof Corporation, Kansas City, Mo. Shingle. 2,161,440; June 6.

Vesterdal, Hans G. (See Whiteley, J. M., and Vesterdal.)

Vickers, Theodore W., Los Angeles, Calif. Warning signal for braking systems. 2,161,441; June 6.

Victor Manufacturing & Gasket Company. (See Russell, Cass B., assignor.)

Victor Metal Products Corporation. (See Jung, Albert H., assignor.)

Victor Metal Products Corporation. (See Temple, Harold F., assignor.)

Vieth, Leonard, Jackson Heights, C. F. Wiebusch, New York, and G. R. Yenzer, Hollis, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vibratory system. 2,161,489; June 6.

Viscol Company, The. (See Campbell, Clinton L., assignor.)

Visser, John, Grand Rapids, assignor, by mesne assignments, to F. L. Jacobs Co., Detroit, Mich. Closure means. 2,161,770; June 6.

Vollmann, Heinrich, and B. Schacke, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Catalyst for acetylene reactions and preparing polymeric compounds of acetylene. 2,161,645; June 6.

Volwiler, Ernest H., Highland Park, and E. E. Moore, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. Soluble double salts of theophylline and monoamino polyhydric alcohols. 2,161,114; June 6.

Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Roll adjusting means. 2,161,325; June 6.

Von Lindern, Carl G. A. (See Posthumus, K., and von Lindern.)

Von Manteuffel, Gert Z., Berlin-Dahlem, Germany, assignors to Askania-Werke A. G. vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. Clutch. 2,161,732; June 6.

Von Pein, Edward J., Endicott, assignor to American Business Machines Corporation, New York, N. Y. Address plate printer. 2,161,602; June 6.

Voorhees, Vandervee, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Split section heat exchanger. 2,160,928; June 6.

Voorhies, Alexis, Jr. (See Warner, J. P., and Voorhies.)

Vossen, Edward, assignor to Stop Motion Devices Corporation, Brooklyn, N. Y. Electric stop mechanism for knitting machines. 2,161,209; June 6.

W. K. M. Company. (See Laurent, Milton Pa., assignor.)

Waalkes, Gerrit, assignor to Anchor Steel & Conveyor Company, Detroit, Mich. Roller structure. 2,161,210; June 6.

Waber, James W., Chicago, Ill. Inner tube. 2,161,490; June 6.

Wachs, Benjamin, Brooklyn, and D. H. Colin, New York, N. Y. Frame structure for ladies' handbags. 2,161,491; June 6.

Waddell, Grover S. (See Gallun, H. R., and Waddell.)

Wadsworth, David T., Cold Springs, assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Bank switch installations. 2,161,492; June 6.

Wadsworth Electric Manufacturing Company, The. (See Wadsworth, David T., assignor.)

Wagenitz, Adolf. (See Scholz, M., and Wagenitz.)

Wagner Electric Corporation. (See Freeman, W. R., and Boldt, assignors.)

Wagner Electric Corporation. (See Schnell, Steve, assignor.)

Wagner Electric Corporation. (See Stroup, Fred H., assignor.)

Waldo, Pharez G. (See Sachanen, A. N., and Waldo.)

Walker, A. C. Clifton, et al. (See Malcolm, Charles A., assignor.)

Walker, Cranford P., San Marino, Calif. Determining fluid density, fluid pressure, and the production capacity of oil wells. 2,161,733; June 6.

Walker, Modie, et al. (See Malcolm, Charles A., assignor.)

Wallace, Archibald L., Brooklyn, N. Y., assignor to R. H. Crook, as trustee. Vulcanizing device. 2,161,442; June 6.

Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Telemetering system. 2,161,603; June 6.

Wallace, John E., Foxboro, Mass. Braking system for motor vehicles. 2,161,493; June 6.

Wallace & Tiernan Products, Inc. (See Wallace, Charles F., assignor.)

Walstrom, Axel M., Minneapolis, Minn., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Machine for making tubs and the like. 2,161,115; June 6.

Walter, Robert. (See Dieterle, W., Walter, and Difrr.)

Walworth Patents Inc. (See Loughner, F. E., and Morehead, assignors.)

Wandrey, Erwin, assignor to R. B. Hayward Company, Chicago, Ill. Metal drum. 2,161,543; June 6.

Ward, Albert N. (See Murphy, E. A., Trobridge, and Ward.)

Warner, James P., and A. Voorhies, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Herbicidal oils. 2,160,929; June 6.

Warshaw, Nathaniel. (See Shepard, F. J., and Warshaw.)

Warshawsky, Isador, assignor of twenty per cent to J. Warshawsky and twenty percent to Nettie Warshawsky, both of Brooklyn, N. Y. Multiple filament electric incandescent lamp. 2,161,443; June 6.

Warshawsky, Jacob, et al. (See Warshawsky, Isador, assignor.)

Warshawsky, Nettie, et al. (See Warshawsky, Isador, assignor.)

Waterbury Tool Company, The. (See Doe, T. B., Rose, and Grosser, assignors.)

Waters, George F., Fall River, Mass. Stretching device. 2,161,394; June 6.

Watt, George W., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Vulcanization of rubber. 2,161,754; June 6.

Watts, Noble H., Bridgeport, Conn., assignor to General Electric Company. Washing machine. 2,161,604; June 6.

Weaver, Leo L., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,161,494; June 6.

Webb, John K., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electrical condenser for high tension circuits. 2,161,326; June 6.

Webster Company, The. (See Erwood, Joseph, assignor.)

Wehr, Everett E. (See Schaffer, J. M., Harwood, and Wehr.)

Weiger, Donald M., Seattle, Wash., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Wire terminal. 2,161,266; June 6.

Wells, Arthur R. (See Bigelow, G. E., and Weis.)

Wells, Leland E. (See Reinhardt, W. L., and Wells.)

Wendel, Peter F., Irvington, N. J. Detection device. 2,161,327; June 6.

Wenzel, Wilhelm. (See Baehr, H., Wenzel, and Mengdehl.)

Werner, Frank C., Grand Rapids, Mich. Baking oven. 2,161,211; June 6.

Westberg, Gustave E. and B., Los Angeles, Calif. Conveying and mixing comminuted material. 2,161,553; June 6.

Westberg, Harry. (See Westberg, Gustave E. and H.)

Western Electric Company. (See Harris, Robert A., assignor.)

Western Electric Company. (See McCord, Herbert F., assignor.)
Western Electric Company. (See Weaver, Leo L., assignor.)
Western Cartridge Company. (See Humeston, Frederick L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalischer, Philip R., assignor.)
Weyers, Theodorus J., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Band-pass filter with variable band width. 2,161,646; June 6.
Wheeler, Dock R., Lake Charles, La. Fire detecting cable. 2,161,395; June 6.
Wheeling Stamping Co. (See Paull, Ambrose D., assignor.)
Wheless, Roger E., Shreveport, La. Vehicle loading apparatus. 2,161,734; June 6.
Whisler, Grant C., assignor to S. Morgan Smith Company, York, Pa. Hydraulic machine. 2,161,647; June 6.
Whitaker, Joseph P. (See Fielding, John, assignor.)
White, Francis G., University City, Mo., assignor to Granite City Steel Company, Granite City, Ill. Steel sheet and plate and the manufacture thereof. 2,161,116; June 6.
Whitehead, William. (See Dreyfus, C., and Whitehead.)
Whitehurst, George W., Portsmouth, Va. Hot water heater. 2,160,994; June 6.
Whiteley, James M., Roselle, and H. G. Vesterdal, Elizabeth, N. J., assignors to Standard Oil Development Company. Separating wax from petrolatum. 2,160,930; June 6.
Whitmore, Frank C., State College, Pa., and M. A. Thorpe, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Substituted barbituric acids containing quaternary carbon atoms. 2,161,212; June 6.
Whitmore, Frank C., State College, D. M. Jones, Forty Fort, and C. I. Noll, State College, Pa., assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Substituted malonic esters. 2,161,213; June 6.
Whitney, Lyman F. and W. E., Cambridge, Mass., assignor, by mesne assignments to Stator Corporation. Combined refrigerating and water heating apparatus. 2,161,214; June 6.
Whitney, William E. (See Whitney, L. F. and W. E.)
Widman, Charles H., assignor to The Murray Corporation of America, Detroit, Mich. Weather strip. 2,161,648; June 6.
Wiebusch, Charles F. (See Vieth, L., Wiebusch, and Yenzer.)
Wiezevich, Peter J., Elizabeth, N. J., now by judicial change of name to P. J. Gaylor, assignor to Standard Oil Development Company. Plasticized synthetic rubber composition. 2,160,995; June 6.
Wiezevich, Peter J., Elizabeth, N. J., now by judicial change of name to P. J. Gaylor, assignor to Standard Oil Development Company. Plasticized synthetic rubber composition. 2,160,996; June 6.
Wiezevich, Peter J., Elizabeth, N. J., now by judicial change of name to P. J. Gaylor, assignor to Standard Oil Development Company. Plasticized synthetic rubber composition. 2,160,997; June 6.
Wiggs, James W. (See Hensel, F. R., Emmert, and Wiggs.)
Wikle, George F., Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Tire stitching apparatus. 2,161,117; June 6.
Wilcoxson, Leslie S. (See Tomlinson, G. H., and Wilcoxson.)
Wilcoxson, Leslie S., Ridgewood, and F. G. Ely, Chatham, assignors to The Babcock & Wilcox Company, Newark, N. J. Spray nozzle. 2,161,111; June 6.
Wiley, Ralph M. (See Reilly, J. H., and Wiley.)
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Co-polymerization products 2,160,931; June 6.
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Co-polymers of vinylidene chloride. 2,160,932; June 6.
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Polymerization of vinylidene halides. 2,160,933; June 6.
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Polymerization of vinylidene chlorides. 2,160,934; June 6.
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Polymerization of vinylidene halides. 2,160,935; June 6.
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Co-polymers of vinylidene chloride. 2,160,945; June 6.
Wiley, Ralph M., F. N. Alquist, and H. R. Slagh, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride polymeric compositions. 2,160,948; June 6.
Willard Storage Battery Company. (See Aikenhead, Stewart C., assignor.)
Willard Storage Battery Company. (See Reinhardt, W. L., and Wells, assignors.)
Williams Company, The. (See Martin, Elmer R., assignor.)
Williams, John C. (See Breerwood, C. H., and Williams.)
Williams, Milton, Houston, Tex., assignor to Standard Oil Development Company. Use of alkali vanadates in reducing viscosity and gelation of drilling muds. 2,160,949; June 6.
Wilson, Clarence E., Manchester, Conn. Plant package. 2,160,998; June 6.
Wilson, Erwin H. (See Jefferis, Albert W., Jr., assignor.)
Wilson, Joseph T., Pitman, N. J., assignor to International Business Machines Corporation, New York, N. Y. Card selecting machine. 2,161,649; June 6.
Wimmer, Josef. (See Mugdan, M., and Wimmer.)
Wincharger Corporation. (See Albers, Gerhard H., assignor.)
Windberger, Othmar, Steyr, Austria. Radiator arrangement for motor vehicles. 2,161,690; June 6.
Winegar, Edmund M., assignor to The Ohio Rubber Company, Willoughby, Ohio. Press. 2,160,805; June 6.
Wingfoot Corporation. (See Calvert, William C., assignor.)
Wingfoot Corporation. (See Clifford, Albert M., assignor.)
Wingfoot Corporation. (See Gage, John R., assignor.)
Wingfoot Corporation. (See Watt, George W., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for use in applying pressure to shoe bottoms. 2,160,950; June 6.
Winter, Ernst, Braunsfeld, Cologne, and H. Polack, Knapsack, Cologne, assignors to Aktiengesellschaft für Stickstoffdünger, Knapsack near Cologne-on-the-Rhine, Germany. Nondusting calcium cyanamide and preparing same. 2,161,328; June 6.
Winthrop Chemical Company. (See Lautenschläger, C. L., Lindner, Rigler, and Schaumann, assignors.)
Winthrop Chemical Company. (See Streitwolf, K., Fehrle, and Herrmann, assignors.)
Wirth, Albert E. (See Gregg, R. G., and Wirth.)
Wise, George W., Williston, N. Dak. Water current motor. 2,161,215; June 6.
Witte, Erich, Hagen, assignor to Accumulatoren-Fabrik Aktiengesellschaft, Berlin, Germany. Method of and system for measuring the state of charge or discharge of secondary batteries. 2,161,495; June 6.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Spring latch for lantern slide frames. 2,161,396; June 6.
Wittenberg, Erich, Berlin-Schoneberg, Germany. End stop member for separable fasteners. 2,161,329; June 6.
Wohinc, Louie, Weston, W. Va. Mold support and separating device. 2,161,397; June 6.
Wolcott, Frank E., West Hartford, assignor to The Silex Company, Hartford, Conn. Stove and grate therefor. 2,161,496; June 6.
Wolfson, David, Far Rockaway, N. Y. Duplicating method and means. 2,161,330; June 6.
Wood, John, Manufacturing Company. (See Bradley, Eric H., assignor.)
Wood, John, Manufacturing Company. (See Orbeck, Elnar M., assignor.)
Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Hydraulic table reciprocating mechanism. 2,161,216; June 6.
Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Crankshaft grinding machine. 2,161,217; June 6.
Woodhouse, Richard L. (See Pilkington, David K., assignor.)
Work, Lincoln T., and H. Alessandroni, New York, N. Y. Manufacture of barium sulphate. 2,161,650; June 6.
Wright, Carl O., Chicago, and E. S. Peterson, Elmwood Park, assignors to Associated Electric Laboratories, Inc., Chicago, Ill. Rural line repeater. 2,161,218; June 6.
Yaeger, Anton J., assignor to Prentiss-Wabers Products Co., Wisconsin Rapids, Wis. Stove construction. 2,161,118; June 6.
Yates, Olen H., Detroit, Mich. Tap. 2,161,497; June 6.
Yenzer, George R. (See Vieth, L., Wiebusch, and Yenzer, assignors.)
Yoder, Carl M., Lakewood, Ohio. Trimming and/or cutting mechanism. 2,160,999; June 6.
Yollés, Jacob, Paris, France, assignor to Radio Corporation of America. Ignition system. 2,161,605; June 6.
Young, William M., and L. B. Paules, Harrisburg, Pa. Pretzel machine. 2,161,267; June 6.
Zellerbach Paper Company. (See McGrath, L. J., and Hall, assignors.)
Zemba, John W. (See Coleman, G. H., and Zemba.)
Zerweck, Werner, and W. Brunner, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuffs of the 2'-naphthalene-2'-indolindigo series and making same. 2,161,400; June 6.
Zimmerman, Emory K. (See Harroun, R. W., and Zimmerman.)
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Conoidal bit cutting machine. 2,161,268; June 6.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Machine for slotting cutter bodies. 2,161,269; June 6.
Yingling, Frank B., Hamilton, Ohio. Hydraulic coupling. 2,161,398; June 6.
Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photomechanical color reproduction. 2,161,399; June 6.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Addressing and printing machine. C. Smith. Re. 21,110; June 6.

Tank, Settling. W. W. Sayers, R. F. Bergmann, and H. F. Watson. Re. 21,109; June 6.

LIST OF DESIGN INVENTIONS

Atomizer. F. A. Vuillemenot. 115,137; June 6.
Atomizing device. F. A. Vuillemenot. 115,138; June 6.
Automobile. W. D. Teague and W. D. Teague, Jr. 115,177; June 6.
Badge or similar article. J. E. Slavin. 115,134; June 6.
Bait, Artificial. G. C. Dolive. 115,101; June 6.
Bar, Combined hat holder and coat hanger supporting. C. A. Pipenhagen. 115,182; June 6.
Book end. G. P. Hendricks. 115,112; June 6.
Booth unit, Restaurant. C. A. Deravin. 115,144; June 6.
Bottle. T. D'Addario. 115,155; June 6.
Bottle. L. C. Ward. 115,163; June 6.
Box, Contribution. E. M. Richardson. 115,152; June 6.
Bracket, Wall shower. O. W. Holden. 115,180; June 6.
Brooch or similar article. A. Philippe. 115,127–8; June 6.
Bumper, Automobile. J. Falcon. 115,146; June 6.
Cabinet and bookcase, Combined radio. D. Dillon. 115,145; June 6.
Cabinet for circulating heaters. J. D. Kaiser. 115,116; June 6.
Cabinet or the like, Cooler. W. F. Vose. 115,136; June 6.
Camera, Color. T. S. Curtis. 115,165; June 6.
Candle. M. C. Hamblet. 115,110; June 6.
Cleaning apparatus, Portable steam. A. Clarkson. 115,185; June 6.
Cleaning device for pipe stems, cigar and cigarette holders. V. Lind. 115,157; June 6.
Coach or similar, Baby. R. O. Snyder. 115,135; June 6.
Coin and slug detector. W. Patzer and W. A. Tratsch. 115,125; June 6.
Comb and curler, Combined. L. G. Arpin and A. J. Bedwell. 115,186; June 6.
Comfortable. L. Goodstein. 115,167; June 6.
Comfortable. L. Goodstein. 115,179; June 6.
Compact or similar article, Illuminable. G. Zumft. 115,184; June 6.
Dispenser for interfolded sheets. F. L. Broeren. 115,098; June 6.
Dress. R. Caine. 115,099; June 6.
Dress. C. Flusser. 115,105; June 6.
Dress. C. Flusser. 115,166; June 6.
Dress. P. Fracchia. 115,106–9; June 6.
Dress. J. Roth. 115,174–6; June 6.
Dress. J. Roth. 115,183; June 6.
Dress, Uniform. V. A. Levy. 115,117; June 6.
Fabric or similar article, Textile. A. Zavell. 115,187–8; June 6.
Fabric, Textile. A. W. Noy. 115,170; June 6.
Feather, Decorated. O. F. Wood. 115,139; June 6.
Front for a wall heater. P. C. Perrin. 115,172; June 6.
Furnace or similar article, Dental. M. W. Schneider. 115,132; June 6.
Game board. B. Lewis. 115,118; June 6.
Game board. B. L. Petersen aand D. J. Hafften. 115,126; June 6.
Game board or similar article. S. Finkelstein. 115,147; June 6.
Game device. H. E. Hymer. 115,115; June 6.
Glove, Massage. J. A. O'Leary. 115,171; June 6.
Grill. J. Bergholm. 115,142; June 6.
Guard, Automobile grille. L. A. Koch. 115,156; June 6.
Handbag or similar article, Lady's. G. W. Heedley, 3rd. 115,111; June 6.
Hat or similar article. M. Blanc. 115,154; June 6.
Heater, Electric. J. S. De Masters and J. W. Keyes. 115,100; June 6.
Housing for dispensing apparatus. H. L. Blum. 115,143; June 6.
Housing, Portable X-ray transformer. C. B. Horsley. 115,114; June 6.
Humidifier, Portable electric. E. A. Reid. 115,173; June 6.
Jacket. L. Elowsky. 115,102; June 6.
Jar. F. Smith. 115,162; June 6.
Lamp, Miner's. C. S. Packer. 115,123; June 6.
License plate for automobiles. F. D. Tweeddale. 115,178; June 6.
Mirror. A. J. Oker. 115,121; June 6.
Opener, Can. M. J. Zimmer. 115,140; June 6.
Permanent wave machine. S. W. Rosenthal. 115,131; June 6.
Rack, Display. A. H. Paschell. 115,124; June 6.
Rack or similar article, Display. E. R. Erickson. 115,103–4; June 6.
Rack, Supporting bar. O. O. Hobson. 115,113; June 6.
Radio receiving set. D. Housman. 115,148–9; June 6.
Razor, Electric. J. O. Reinecke. 115,130; June 6.
Receptacle and cover therefor, Combined. W. T. Stopa. 115,160–61; June 6.
Reflector. G. Arras. 115,097; June 6.
Roaster. D. L. Hadley. 115,168; June 6.
Shovel. C. I. Nelson. 115,159; June 6.
Slipper, Child's. M. Linder. 115,151; June 6.
Slipper or similar article. J. Barnett. 115,141; June 6.
Soap or the like, Cake of. F. McIntosh. 115,181; June 6.
Spoon. J. C. Phillips. 115,129; June 6.
Spoon or similar article. F. S. Trumbull. 115,153; June 6.
Stereo-campimeter. J. R. Miles. 115,120; June 6.
Suit. A. Oppenheimer. 115,122; June 6.
Table. P. Marano. 115,119; June 6.
Tablecloth or similar article. J. S. Madsen. 115,169; June 6.
Tooth brush and powder holder, Combined. B. L. Short. 115,133; June 6.
Trap, Insect. D. S. Karr. 115,150; June 6.
Tube socket crown, Fluorescent. F. K. Maerz. 115,158; June 6.
Wrap, Evening. F. Zucker. 115,164; June 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading apparatus. L. B. and S. J. Tuchmann. 2,161,112; June 6.
Accessory attachment for sound recording apparatus. L. Neumann. 2,161,231; June 6.
Accounting, checking, and punch-recording system. J. P. Buckley. 2,161,280; June 6.
Acids, Alkyl-substituted aromatic sulphonic. L. P. Kyrides. 2,161,173–4; June 6.
Acids containing quaternary carbon atoms, Substituted barbituric. F. C. Whitmore and M. A. Thorpe. 2,161,212; June 6.
Acids, Thermal dehydration of aliphatic. H. Dreyfus. 2,160,840–2; June 6.
Acoustic surfacing for walls, ceilings, partitions, or the like. P. M. Heerwagen. 2,161,708; June 6.
Adjustable support. T. A. McGregor. 2,161,366; June 6.
Adjustable support. T. A. McGregor and A. J. Rhodes. 2,161,367; June 6.
Adsorbent, Solvent regeneration of spent decolorizing. A. E. Miller and G. R. Lord. 2,161,306; June 6.
Adsorbent, Solvent regeneration of decolorizing. A. E. Miller and W. B. Chenault. 2,161,307; June 6.
Aerial, Automobile. R. A. Becwar. 2,161,736; June 6.
Aerial, Motor vehicle. J. J. Clark. 2,161,698; June 6.
Ager for treating printed and like fabrics. Z. Sochor, A. Kvasnička, and S. Moch. 2,161,726; June 6.
Agitator. F. P. Chapman. 2,161,134; June 6.
Agricultural digging machine. C. Pezzolo. 2,161,428; June 6.
Agricultural machine. W. D. Haines. 2,161,705; June 6.
Air conditioning apparatus. M. C. Terry. 2,161,438; June 6.
Air conditioning apparatus for railway vehicles. T. H. Schoepf and D. M. Ritchie. 2,161,686; June 6.
Air conditioning system. N. Passur. 2,160,984; June 6.
Air control for kiln-cooler assemblies. R. D. Cheesman. 2,160,956; June 6.
Airship. G. Forton. 2,160,850; June 6.
Alarm, Automatic Burglar and fire. E. R. Mountstephen. 2,161,526; June 6.
Alarm, Automatic Burglar, fire, or like. E. R. Mountstephen. 2,161,525; June 6.
Alcohol, Acetylenic. G. A. Perkins. 2,161,191; June 6.
Alloy: *See*—
Brazing alloy. Silver alloy.
Copper base alloy. Silver base alloy.
Alloy. F. R. Hensel and E. I. Larsen. 2,161,467; June 6.
Aluminum or aluminum alloys, Protectively coating. W. K. Rankin and J. R. Brossman. 2,161,636; June 6.
Ammonia, Apparatus for decomposing. J. L. Pearson. 2,161,746; June 6.
Andiron, Adjustable. F. J. Plym. 2,161,194; June 6.
Animal trap. R. C. Burnley. 2,160,809; June 6.
Animal trap. J. Rafferty and T. Cowperthwaite. 2,160,986; June 6.
Antenna. J. L. Hathaway. 2,161,707; June 6.
Antenna coupling system. W. R. Peterson. 2,161,192; June 6.
Antenna reel. R. M. Heintz and H. W. A. Gruenhagen. 2,161,044; June 6.
Antenna system, Directive. H. O. Peterson. 2,160,899; June 6.
Antenna system for motor vehicles. R. M. Smith. 2,161,435; June 6.
Apparatus for maintaining adjacent railway cars on a level plane. T. H. Schoepf and D. M. Ritchie. 2,161,687; June 6.
Apparatus for measuring charges of powdered and granular materials. A. D. Paull. 2,161,190; June 6.
Apparatus for measuring frequency. J. E. Echlin and L. G. Erickson. 2,161,146; June 6.
Apparatus for measuring the liquid contents of a container or vessel. E. Fischel. 2,161,510; June 6.
Apparatus for shock absorbers for articulated trunnions. T. H. Schoepf and D. M. Ritchie. 2,161,685; June 6.
Apparatus for taking fluid samples. J. B. Clark. 2,161,557; June 6.
Applicator, Cleaning. J. H. Stroop. 2,160,921; June 6.
Arrester, Hydraulic back-pressure. M. P. De Motte. 2,161,700; June 6.
Arseno compounds, Asymmetric. K. Streltwolf, A. Febrle, and W. Herrmann. 2,161,538; June 6.
Article and device for making same, Extruded. R. P. Piperoux. 2,161,588; June 6.
Article, Coated hard rubber. A. K. Doolittle. 2,161,024; June 6.
Article, Decorated. L. J. Most. 2,161,549; June 6.
Article of wearing apparel. H. S. Kohler. 2,161,063; June 6.
Articles molded from cellulosic fibrous pulp, Manufacture of. I. B. Berghoff. 2,161,224; June 6.
Articles, Producing molded rubber. M. Carter. 2,161,281; June 6.
Ashtray. H. J. Thomas. 2,161,109; June 6.
Assembling instrument for piling. J. S. Miller and B. E. Rhoads. 2,161,482; June 6.
Atomizer or dispersing device. H. Schlagintweit. 2,161,235; June 6.
Attaching mechanism. M. L. Bowen. 2,161,404; June 6.
Attachment for collapsible tubes. A. H. Jung. 2,161,516; June 6.
Automatic gate. P. F. Danel. 2,160,959; June 6.
Automatic reel. F. M. Littell. 2,161,228; June 6.
Automobile vehicle. O. Hacker. 2,161,760; June 6.
Automotive device. G. Eaton. 2,161,287; June 6.
Automotive mechanism. F. C. Reilly, P. M. Carter, and D. F. Linsley. 2,161,088; June 6.
Ballast device for aircraft, Water. L. Duerr. 2,161,739; June 6.
Balls, Method and apparatus for winding. F. Honig. 2,161,546; June 6.
Band-pass filter. N. M. Rust. 2,161,593; June 6.
Bank switch installations. D. T. Wadsworth. 2,161,492; June 6.
Bar: *See*—
Venetian blind head bar.
Barium sulphate, Manufacture of. E. J. Roberts. 2,161,652; June 6.
Barium sulphate, Manufacture of. L. T. Work and H. Alessandroni. 2,161,650; June 6.
Barrel, Metal. F. Gettelman. 2,161,155; June 6.
Base for fixtures. W. C. Heindl. 2,161,674; June 6.
Basket. E. T. H. Schmidt. 2,161,639; June 6.
Batteries, Method of and system for measuring the state of charge or discharge of secondary. E. Witte. 2,161,495; June 6.
Battery venting means, Storage. S. C. Alkenhead. 2,160,806; June 6.
Bauxite adsorbent, Regenerating a. A. Kinsel. 2,160,874; June 6.
Bearing: *See*—
Rolling bearing.
Bit: *See*—
Rock bit.
Bit cutting machine, Conoidal. W. F. Zimmermann. 2,161,268; June 6.
Blackboard. G. W. Pettis. 2,161,587; June 6.
Blade for aircraft sustaining rotors. J. de la Cierva. 2,161,699; June 6.
Blanks, Apparatus for reducing tubular. F. R. Krause. 2,161,065; June 6.
Blanks, Method and apparatus for elongating metal. F. R. Krause. 2,161,064; June 6.
Bleaching. W. Hirschkind, D. J. Pye, and E. G. Thompson. 2,161,045; June 6.
Board: *See*—
Ironing board.
Boardlike products, Making hard, dense, fibrous. G. H. Ellis. 2,161,655; June 6.
Bobbin supporting and driving device. E. G. Guenther. 2,161,348; June 6.
Boiler: *See*—
Ham boiler.
Bolster, Car truck. K. R. Hammerstrom. 2,161,513; June 6.
Bolt. H. A. Anderson. 2,161,271; June 6.
Bomb releasing device, Automatic. A. Ovtschinnikoff. 2,161,081; June 6.
Bomb suspension. A. Ovtschinnikoff. 2,161,082; June 6.
Book construction. J. P. Rose and F. L. Russell. 2,161,591; June 6.
Book, Memorandum. W. R. Buxton. 2,161,015; June 6.
Bookkeeping machine stand. W. T. Sagner. 2,160,990; June 6.
Bowling alley gauge. G. R. Foster. 2,161,704; June 6.
Box: *See*—
Folding box. Shipping box.
Brake: *See*—
Magnetic track brake.
Brake. H. C. Bowen. 2,161,278; June 6.
Brake construction. H. T. Lambert. 2,161,359; June 6.
Brake drum. W. D. Sargent and C. G. Keller. 2,160,912; June 6.
Brake for a die sinking machine. J. M. Rusnak. 2,161,683; June 6.
Brake mechanism. H. T. Lambert. 2,161,360; June 6.
Brake operating apparatus for automobiles and similar vehicles. E. S. Harrison. 2,161,159; June 6.
Brake shoe, Car wheel truing. C. A. Malcolm. 2,161,363; June 6.
Brake shoe refinisher, Motor vehicle. H. K. Bigelow. 2,161,125; June 6.

Brake slack take-up mechanism. F. O. Grayson. 2,160,859; June 6.
Braking mechanism. S. Schnell. 2,161,640–1; June 6.
Braking system, Fluid pressure. H. C. Bowen. 2,161,277; June 6.
Braking system, Fluid pressure. A. A. Loweke. 2,161,304; June 6.
Braking system for motor vehicles. J. E. Wallace. 2,161,493; June 6.
Brazing alloy. P. R. Kalischer. 2,161,057; June 6.
Bread slicing machine. H. J. Criner. 2,160,957; June 6.
Bridge construction. P. W. Leisner. 2,161,176–7; June 6.
Bridging condenser for high frequency arrangements. E. Gossel. 2,161,289; June 6.
Broiler. D. M. Freeman. 2,161,669; June 6.
Bucket and corner bracket therefor, Clamshell. G. J. Ehrhardt. 2,161,147; June 6.
Building block construction. J. L. Myer. 2,161,680; June 6.
Bulkhead gate, Overhead drop. G. F. Jones. 2,160,870; June 6.
Burner control, Gas. W. S. McDonough. 2,161,070; June 6.
Bus bar conduit system. F. Harvey. 2,161,571; June 6.
Bushing, Split. G. T. Cooke. 2,161,559; June 6.
Cabinet for displaying building tile. C. H. Burchenal. 2,161,130; June 6.
Cable: *See*—
Fire detecting cable.
Cable system, Electric. F. H. Gooding and G. N. Everest. 2,161,413; June 6.
Cabscope. E. C. Bixel and H. D. Brown. 2,161,006; June 6.
Calcium cyanamide and preparing same, Nondusting. E. Winter and H. Polack. 2,161,328; June 6.
Calendar, Rhythmic cycle. V. A. Gates. 2,161,345; June 6.
C-aliphatic isocyclic amines N-substituted by oxyaliphatic radicals. A. Steindorff, G. Balle, K. Horst, and H. Schild. 2,161,322; June 6.
Cam, Split. A. E. Borton. 2,161,243; June 6.
Camera adjusting mechanism. J. Mihalyi. 2,161,372; June 6.
Camera, Subterranean. W. J. Opocensky. 2,161,380; June 6.
Can holding and liquid dispensing device. J. Miratl. 2,160,976; June 6.
Can holding and protecting mechanism. J. C. Holloway. 2,160,865; June 6.
Can washing apparatus. F. W. Coffing. 2,161,613; June 6.
Car door, Refrigerator. W. M. Dwyer. 2,160,844; June 6.
Carburizing. J. W. Harsch. 2,161,162; June 6.
Card punching machine. S. Brand. 2,161,612; June 6.
Card selecting machine. J. T. Wilson. 2,161,649; June 6.
Card sensing device. T. E. Torkelson. 2,161,598; June 6.
Cargo in cargo compartments, Method of and apparatus for preventing damage to. M. R. Colby, O. D. Colvin, and W. H. Hahne. 2,160,831; June 6.
Carrier system, Overhead. M. G. Rosenthal. 2,161,388; June 6.
Cartograph. G. A. McDonald. 2,161,717; June 6.
Carton structure. R. B. Boyle. 2,161,128; June 6.
Cassette, X-ray. C. B. Kamiss. 2,161,058; June 6.
Castings of aluminum and aluminum-base alloy, Making. J. H. Alden and P. T. Stroup. 2,160,812; June 6.
Catalysis. E. J. Houdry. 2,161,677; June 6.
Catalyst for acetylene reactions and preparing polymeric compounds of acetylene. H. Vollmann and B. Schacke. 2,161,645; June 6.
Catalyst, Selenium-containing. W. A. La Lande, Jr. 2,161,066; June 6.
Catalytic operation. E. J. Houdry. 2,161,676; June 6.
Catch, Door. H. B. Gallinger. 2,161,671; June 6.
Cathode ray tube. W. Rogowski and F. A. Becker. 2,161,316; June 6.
Cellulose for esterification, Preparing. L. W. Blanchard, Jr. 2,161,555; June 6.
Cement, Manufacture of. C. H. Breerwood and J. C. Williams. 2,161,010–11; June 6.
Cementing, Multiple stage. R. E. O'Donnell. 2,161,309; June 6.
Chain unit, Antiskid. H. S. Fritts. 2,161,343; June 6.
Chair. H. A. Freedman. 2,161,226; June 6.
Chair and table for infants, Combined. G. B. Hansburg. 2,161,657; June 6.
Check pad holder. H. R. Mortensen. 2,160,889; June 6.
Check separator. D. C. Rockola. 2,161,091; June 6.
Cheese product and process of plasticizing. C. Doering and W. K. Teller. 2,161,401; June 6.
Chemical process. H. S. Holt. 2,161,625; June 6.
Chuck. W. J. Kolstad. 2,161,300; June 6.
Chuck, Crankshaft. W. F. Groene and W. R. Meyer. 2,160,967; June 6.
Clamp: *See*—
Form-clamp.
Cleaner: *See*—
Conduit cleaner.
Clip: *See*—
Garment holding clip.
Clip assembly. J. Fielding. 2,161,668; June 6.
Clipper, Hedge and lawn. B. H. Kaplan. 2,161,357; June 6.
Closure for bottles and the like. T. Schröder-Nielsen. 2,161,097; June 6.
Closure means. J. Visser. 2,161,770; June 6.
Clothesline fastener. F. J. Doherty. 2,161,461; June 6.
Clothesline fastening device. E. P. Ashcroft. 2,161,499; June 6.
Clutch. G. Z. von Manteuffel. 2,161,732; June 6.
Clutch chatter elliminator. W. R. Freeman and W. F. Boldt. 2,161,670; June 6.
Clutch device. C. R. Doty, K. R. Schneider, and A. C. Holt. 2,161,563; June 6.
Clutch mechanism, Synchronizing. M. de Kremer. 2,161,285; June 6.
Coal pusher for locomotive tenders. R. Milburn and W. Briggs. 2,161,373; June 6.
Coating, Antihalation. C. J. Malm and J. Emerson. 2,161,364; June 6.
Coating apparatus. G. Boulton. 2,160,826; June 6.
Coating composition. A. K. Doolittle. 2,161,025; June 6.
Coating composition. H. G. Grimm and F. Schamberger. 2,161,290; June 6.
Coating composition, Well-covering. F. Schamberger. 2,161,319; June 9.
Coating material and applying the same, Metallic. G. S. Smith. 2,161,104; June 6.
Cock or valve, Gas. H. Moecker, Jr., W. Lotter, A. Scholander, and I. V. Brumbaugh. 2,161,523; June 6.
Collapsible container. J. H. Friden. 2,160,963; June 6.
Color reproduction, Photomechanical. J. A. C. Yule. 2,161,399; June 6.
Color separation process for multicolor printing. A. Murray. 2,161,378; June 6.
Combination drafting tool. A. Sclocco. 2,161,098; June 6.
Combustion apparatus. M. De Lin. 2,161,021; June 6.
Combustion control. R. Lewis. 2,161,361; June 6.
Communication system. H. J. Nichols and H. L. Tholstrup. 2,161,586; June 6.
Composition of matter. A. L. Flenner. 2,161,462; June 6.
Composition of matter. M. R. Isaacs. 2,160,869; June 6.
Compressor. A. N. Gustafson. 2,160,860; June 6.
Compressor, Axial flow turbo. C. Keller. 2,161,517; June 6.
Condenser for high tension circuits, Electrical. J. K. Webb. 2,161,326; June 6.
Conduit cleaner. P. P. M. Duboselard. 2,161,028; June 6.
Connector: *See*—
Electrical connector.
Contact device, Sound operated. L. Heck and R. Schwarz. 2,161,416; June 6.
Contacting apparatus. J. W. Brown. 2,161,405; June 6.
Container: *See*—
Collapsible container
Shipping and display container.
Container. A. R. Barnes. 2,160,816; June 6.
Container. C. A. Hirschberg. 2,161,295; June 6.
Container. C. W. Kelsey. 2,161,060; June 6.
Container body forming mechanism. J. M. Hothersall. 2,160,866; June 6.
Container closure. C. O. Nelson. 2,161,230; June 6.
Container closure and producing the same. S. N. Dalton. 2,161,561; June 6.
Container for eggs and the like. K. K. Newsom. 2,160,893; June 6.
Container holder. P. J. Griffin. 2,161,347; June 6.
Container structure. F. Y. McKenney. 2,161,072; June 6.
Container structure. D. R. Swingle. 2,161,107; June 6.
Control device. F. S. Denison and C. G. Kronmiller. 2,161,248; June 6.
Control device for variable speed gearing. C. R. H. Bonn. 2,161,008; June 6.
Control for a signaling system. J. L. Delvaux. 2,161,286; June 6.
Control for machine tools. M. L. Strawn. 2,160,920; June 6.
Control means for the fuel supply of internal combustion engines. H. Heinrich, J. F. Janssen, and K. Fiedler. 2,161,743; June 6.
Control mechanism for gear shaping machines. L. D. Martin. 2,161,365; June 6.
Control mechanism for hydraulic transmissions and pumps. H. Thoma. 2,161,439; June 6.
Control mechanism, Motor operated. C. G. Kronmiller. 2,161,258; June 6.
Conveyer, Roller. M. S. Bowen. 2,160,807; June 6.
Cooling system. R. A. Harris. 2,161,570; June 6.
Co-polymerization products. R. M. Wiley. 2,160,931; June 6.
Co-polymers of vinylidene chloride. R. M. Wiley. 2,160,932; June 6.
Co-polymers of vinylidene chloride. R. M. Wiley. 2,160,945; June 6.
Copper base alloy. F. R. Hensel and E. I. Larsen. 2,161,468; June 6.
Copper phthalocyanine, Manufacture of. S. R. Detrick. 2,160,837; June 6.
Copy holder for a copying machine. R. S. Hopkins. 2,161,352; June 6.
Cord holder. G. Dorman. 2,160,961; June 6.
Core catcher. D. Mackenzie and J. E. Hoffoss. 2,161,582; June 6.
Cotton, Apparatus for conditioning. W. Jones. 2,161,170; June 6.
Couch, Studio. J. Martin. 2,161,514; June 6.

Counterfeit money detector. J. H. Ruth. 2,161,594; June 6.
Counting device. A. S. McDonnell. 2,161,630; June 6.
Coupler, Automatic car. K. Scharfenberg. 2,161,724; June 6.
Coupling: *See*—
Hydraulic coupling. Trailer coupling.
Coupling. J. O. Blackmon. 2,161,501; June 6.
Coupling pin. W. H. Schmalstieg. 2,161,390; June 6.
Cover: *See*—
Seat cover.
Crankshaft grinding machine. W. H. Wood. 2,161,217; June 6.
Creped products, Process and machine for making composite. W. W. Rowe. 2,161,092; June 6.
Crusher, Conical-type stone. G. H. Schieferstein. 2,161,096; June 6.
Crushing machine. E. A. Henry. 2,161,573; June 6.
Cuff, Blood pressure. J. P. Tye. 2,161,393; June 6.
Cuff link construction. J. E. O'Brien. 2,161,189; June 6.
Curler, Hair. A. Goodman. 2,161,758–9; June 6.
Curler, Sleeve hair. N. Locke. 2,161,478; June 6.
Curtain operating means. W. C. Raapke. 2,161,382; June 6.
Cutter heads, Construction of. R. E. Benner. 2,160,952; June 6.
Cutting and slicing machine, Automatic. R. MacHaynes. 2,161,480; June 6.
Cutting or welding machine. J. L. Anderson. 2,161,121; June 6.
Cylinder and piston construction. J. P. Burke. 2,161,132; June 6.
Cylinder head construction. J. P. Burke. 2,161,133; June 6.
Decorated textile fabric. F. D. Cheney and J. Learned. 2,160,828; June 6.
Degreasing and flushing device. G. F. Burger. 2,161,131; June 6.
Delivery and counting mechanism for rotary printing presses. F. A. Foster. 2,161,033; June 6.
Dentiphone. A. W. Jefferis, Jr. 2,161,169; June 6.
Designs on printing plates by means of photoelectrically controlled gravers, Process and device for the reproduction of. F. Alice. 2,160,951; June 6.
Detection device. P. F. Wendel. 2,161,327; June 6.
Diaper. T. J. Swartz. 2,161,539; June 6.
Diaphragm, Microporous. W. L. Reinhardt, and L. E. Wells. 2,161,383; June 6.
Die casting machine. R. J. Schultz. 2,161,534; June 6.
Dihydrobenzocarbazole compounds. H. Morschel and O. Goll. 2,161,524; June 6.
Dip-soldering. W. P. Carroll and D. S. Kondrat. 2,161,556; June 6.
Dispenser for parcel handles. W. F. Harrison and F. H. Meyer. 2,161,415; June 6.
Dispensing apparatus. P. H. Richert. 2,161,090; June 6.
Dispensing device. J. H. Horstman. 2,161,048–9; June 6.
Distress signal. L. R. Lueck. 2,160,974; June 6.
Distributing valve. F. H. Stroup. 2,161,642; June 6.
Distributor. R. M. Heintz. 2,161,043; June 6.
Doll eye. N. Paganello. 2,160,982; June 6.
Door: *See*—
Car door.
Door check. S. W. Nicholson. 2,160,895; June 6.
Door closer and check. J. H. Simms. 2,161,101; June 6.
Door fastener. G. Hammond. 2,161,673; June 6.
Drafting instrument. A. E. Shaw. 2,161,236; June 6.
Drawbar. E. Rodemeyer. 2,161,387; June 6.
Drawbench. M. J. Dempsey and F. W. Reher. 2,161,023; June 6.
Draw works. J. S. Morgan, Jr. 2,161,075; June 6.
Drill head. J. A. Andersen. 2,161,000; June 6.
Drive, Boat. L. A. Layne. 2,161,068; June 6.
Drive, Variable speed. J. A. Jepson. 2,161,054; June 6.
Drive with automatic lockout, Overspeed and freewheeling. W. B. Barnes. 2,160,817; June 6.
Driver-adjusting means for fastening-inserting machines. J. A. Duran. 2,160,843; June 6.
Drum, Metal. E. Wandrey. 2,161,543; June 6.
Duplicating method and means. D. Wolfson. 2,161,330; June 6.
Dye, Cyanine. W. Dieterle, R. Walter, and H. Dürr. 2,161,339; June 6.
Dye, Thiazolinotricarbocyanine. L. G. S. Brooker. 2,161,332; June 6.
Dyes, Azo. S. S. Rossander. 2,161,638; June 6.
Dyes, Intermediates for azo. H. W. Mathieu and S. S. Rossander. 2,161,628; June 6.
Dyes, Making azo. H. A. Lubs. 2,160,882; June 6.
Dyestuffs, Azo. A. H. Knight. 2,161,627; June 6.
Dyestuffs of the 2-naphthalene-2-indolindigo series and making same, Vat. W. Zerweck and W. Brunner. 2,161,400; June 6.
Dyestuffs, Water-insoluble azo. J. Haller. 2,161,622; June 6.
Earth transient in geophysical prospecting, Electric. L. W. Blau and L. Statham. 2,160,824; June 6.
Ejector for ejecting printed articles from a printing machine. J. Krell. 2,161,712; June 6.
Electric controlling apparatus. F. G. Logan. 2,161,179; June 6.
Electric incandescent lamp, Multiple filament. I. Warshawsky. 2,161,443; June 6.
Electric iron. C. Du Pree and A. Ackerman. 2,161,145; June 6.
Electric lamp. M. D. Fernández. 2,161,621; June 6.
Electric plug. H. Hummel. 2,161,353; June 6.
Electrical apparatus for changing the length of and displacement of the optical axis in cinematography. W. F. Alder. 2,161,120; June 6.
Electrical appliances, Construction of. W. A. Barnes. 2,161,446; June 6.
Electrical connector. G. E. Andre. 2,161,606; June 6.
Electrical device. J. M. Cunningham. 2,161,614; June 6.
Electrical discharge device, Animated. J. H. McCauley. 2,161,716; June 6.
Electrical terminal. G. E. Andre. 2,161,692; June 6.
Electrode, Cathode ray deflecting. C. S. Sprague and R. H. George. 2,161,437; June 6.
Electrode system. W. C. van Geel. 2,161,601; June 6.
Electrode system for rectifying or controlling high or intermediate frequency oscillations. W. C. van Geel. 2,161,600; June 6.
Electrodes, Manufacturing condenser. J. Kipperman and A. J. J. Lambeek. 2,161,419; June 6.
Electrolytic cell. R. M. Hunter. 2,161,166; June 6.
Electromagnetic recording arrangement. S. Begun. 2,161,273; June 6.
Electromagnets, Control of. H. S. Black. 2,160,823; June 6.
Electron discharge device. G. B. Banks. 2,161,272; June 6.
Electron discharge device. C. A. Bieling. 2,161,005; June 6.
Electron multiplier, Two-stage. P. T. Farnsworth. 2,161,620; June 6.
Elevator and mixer. R. L. Puccinelli. 2,161,485; June 6.
End stop member for separable fasteners. E. Wittenberg. 2,161,329; June 6.
Engine: *See*—
Internal combustion engine.
Engine chamber, Internal combustion. J. P. Burke. 2,161,244; June 6.
Engine cooling system. H. E. Morton. 2,160,980; June 6.
Engraving and allied pantograph machine, Three dimensional. P. M. Henkes. 2,161,709; June 6.
Eraser for pencil and holding tip therefor. M. Pipl. 2,161,086; June 6.
Esters of phthalic acid. B. M. Vanderbilt. 2,161,552; June 6.
Esters, Substituted malonic. F. C. Whitmore, D. M. Jones, and C. I. Noll. 2,161,213; June 6.
Ether, Polymerized di-(2-chloroallyl). G. H. Coleman and R. W. Sapp. 2,161,737; June 6.
Ether, Production of isopropyl. E. R. Gilliland. 2,160,854; June 6.
Ethers of tertiary-alkyl phenylphenols. G. H. Coleman and G. V. Moore. 2,161,558; June 6.
Exhaust pipe and muffler support. D. T. Bradley. 2,160,808; June 6.
Exhibiting device. W. A. McCombs. 2,160,886; June 6.
Expansion joint. M. E. Capouch. 2,161,333; June 6.
Fabric: *See*—
Decorated textile fabric.
Fabrics in formed printed patterns, Production of textile. C. Bener. 2,161,223; June 6.
Fan. L. L. Dollinger. 2,161,027; June 6.
Fan system. H. F. Hagen. 2,160,968; June 6.
Fastener: *See*—
Clothesline fastener. Wheel guard fastener.
Door fastener.
Fastener. A. V. Boggild. 2,161,611; June 6.
Fastener applying implement. L. G. Blumenbaum. 2,161,449; June 6.
Fastening device. M. L. Nattenheimer. 2,161,632; June 6.
Fastening-inserting machine. H. Lane and W. N. Bray. 2,160,877; June 6.
Fat substitute and method of making. H. C. Eckrich and H. J. Eckrich, Sr. 2,161,029; June 6.
Feed supply or drafting frames. N. A. Batchelder. 2,161,664; June 6.
Feeder: *See*—
Vibratory feeder.
Feeding head for reciprocating or shaker conveyers. E. R. Bergmann. 2,161,002; June 6.
Fence, Snow. C. P. Bohland. 2,161,450; June 6.
Fertilizer, Making phosphate-sulphur. H. W. Gilbert. 2,161,035; June 6.
Fiber finishing machine. W. T. Brown. 2,161,502; June 6.
Fiber, Synthetic. E. W. Rugeley, T. A. Feild, Jr., and J. F. Conlon. 2,161,766; June 6.
Fibrous material of vegetable origin, Treatment of. M. P. Mulqueen. 2,161,377; June 6.
File. B. Sakren and W. G. Levine. 2,161,532; June 6.
Film forming apparatus. H. C. Jewett. 2,161,356; June 6.
Film winding mechanism. A. E. Schubert. 2,161,391; June 6.
Films, Producing rubber hydrochloride. W. C. Calvert. 2,161,454; June 6.

Filter: *See*—
Band-pass filter.
Filter. C. B. Bowman. 2,161,127; June 6.
Filter for ultra-violet light. E. E. Richardson. 2,160,907; June 6.
Filter network for radio receivers. R. Rechnitzer. 2,161,315; June 6.
Filter with variable band width, Band-pass. T. J. Weyers. 2,161,646; June 6.
Fire detecting cable. D. R. Wheeler. 2,161,395; June 6.
Fireplace heater. J. E. Rutland. 2,161,723; June 6.
Fish lure. W. C. Saunders, Jr. 2,161,094; June 6.
Flareboards for a plow, Adjustable. L. J. Litchy. 2,160,973; June 6.
Flour, Process of and apparatus for bleaching. C. H. Smith. 2,160,918; June 6.
Fluid analyzer, Automatic. A. H. W. Busby and R. K. Blois. 2,161,453; June 6.
Fluid pressure regulator. H. J. Baker and W. F. Mesinger. 2,161,544; June 6.
Fluid pressure system. H. C. Bowen. 2,161,279; June 6.
Fluid pump. L. A. Thomson. 2,161,729; June 6.
Foaming in systems containing gelatine, Inhibiting of. M. L. Piker and S. C. Pool. 2,161,747; June 6.
Folding box. R. W. Hoag. 2,161,675; June 6.
Food, Packing frozen. L. J. McGrath and W. L. Hall. 2,161,071; June 6.
Food product, Manufacturing. C. A. Raymond 2,160,902; June 6.
Form and holder, Necktie. C. R. McKenzie. 2,160,887; June 6.
Form clamp. H. P. Neptune. 2,161,379; June 6.
Frame: *See*—
Yarn presentation frame.
Frame and floating body, Prismatic. J. S. Abell. 2,161,219; June 6.
Frame for a glider or the like. L. Vavrik. 2,160,927; June 6.
Frame structure for ladies' handbags. B. Wachs and D. H. Colin. 2,161,491; June 6.
Fuel feeding device for internal combustion engines. F. Egersdörfer. 2,161,507; June 6.
Fuel for lighters, Solid. F. Ringer. 2,161,385; June 6.
Fuel pump. F. C. Mock. 2,160,978; June 6.
Furnace: *See*—
Melting furnace.
Fuse cut-out, Oil. A. E. Papp. 2,161,427; June 6.
Fuse plug, Renewable indicating. H. M. Muncheryan. 2,160,079; June 6.
Galvanometer. M. D. McCarty. 2,161,744; June 6.
Game. M. H. Brook. 2,161,129; June 6.
Game, Shooting-gallery. C. J. Breitenstein and D. E. Hooker. 2,161,012; June 6.
Garment blocker. F. J. Bolek and T. S. Levis. 2,161,451; June 6.
Garment holding clip. L. Oliver. 2,160,897; June 6.
Gas flow regulator. A. E. Jurs. 2,161,171; June 6.
Gasoline saver and vapor lock remover. F. C. Dalton. 2,161,409; June 6.
Gate: *See*—
Automatic gate. Bulkhead gate.
Gauge: *See*—
Bowling alley gauge.
Gearing comprising pressure fluid operated control coupling, Reversing. A. Dürig. 2,161,702; June 6.
Generator: *See*—
Motor pump or electric Vapor generator.
generator.
Glassware, Method of and machine for forming. G. E. Howard. 2,161,255; June 6.
Goods of spongelike or cellular rubber, Manufacture of. E. A. Murphy, A. A. Round, and T. Norcross. 2,161,308; June 6.
Grease retainer with securing lug. C. B. Russell. 2,161,707; June 6.
Grinder, Work holder crankpin. H. A. Silven. 2,161,206; June 6.
Grinding machine. F. S. Haas. 2,161,465; June 6.
Grinding machine. C. L. Ott. 2,161,311; June 6.
Guard, Wheel. R. W. Harroun and E. K. Zimmerman. 2,161,160; June 6.
Gun, Practice. L. Kassler. 2,161,172; June 6.
Gun sight. C. C. Loomis. 2,161,303; June 6.
Gunstock. C. C. Anderson. 2,161,498; June 6.
Gyroscopes, Quick setting means for directional. M. F. Bates. 2,161,241; June 6.
Hair collecting apparatus. M. Hartzman. 2,161,350; June 6.
Hair waving apparatus. F. V. Schleimer. 2,161,202; June 6.
Hair waving device. F. V. Schleimer. 2,161,203; June 6.
Ham boiler. H. Reinwald. 2,161,089; June 6.
Handle device, Control. H. W. Hey. 2,161,778; June 6.
Hanger: *See*—
Milk bottle hanger.
Hat brim curling machine. M. Cassé. 2,161,017; June 6.
Hat-brim flanging machine. P. Schultze. 2,161,434; June 6.
Head rest for basins and the like. W. S. Rickard. 2,161,590; June 6.
Heat control system. O. J. Kuenhold. 2,161,679; June 6.
Heat exchange apparatus for rectifying columns. P. Peff. 2,160,898; June 6.
Heat exchanger. J. A. Coy. 2,161,019; June 6.
Heat exchanger, Split section. V. Voorhees. 2,160,928; June 6.
Heater: *See*—
Fireplace heater. Water heater.
Heater and venting means therefor, Circulating space. A. W. Lundstrum. 2,160,883; June 6.
Heel for shoes. J. Burger. 2,161,452; June 6.
High frequency system. A. Gothe. 2,160,857; June 6.
Holder: *See*—
Check pad holder. Line holder.
Container holder. Pad or paper sheet holder.
Cord holder. Work holder.
Holder for frankfurters. A. S. Haislip. 2,161,512; June 6.
Holder or latch, Door. H. W. Titus. 2,161,542; June 6.
Holding instrument. L. H. Reineke. 2,160,988; June 6.
Holding or locking device. C. A. Arens. 2,161,661; June 6.
Holding valve. J. N. Shuey. 2,161,099; June 6.
Honey, Device for treating. T. Turchenko. 2,161,113; June 6.
Hook adapter. H. Lindsay. 2,161,259; June 6.
Hot water heater. G. W. Whitehurst. 2,160,994; June 6.
Housing, Circuit interrupter. H. A. Triplett and A. Ramsey. 2,160,926; June 6.
Housing, Window shade. C. Schwarzenbach and H. Demmitt. 2,161,535; June 6.
Hub construction. C. F. Hirshfeld. 2,161,164; June 6.
Huller, Walnut. W. E. Formway. 2,161,032; June 6.
Hum reduction in amplifier networks. L. F. Jones. 2,161,418; June 6.
Hydraulic coupling. F. B. Yingling. 2,161,398; June 6.
Hydraulic machine. G. C. Whisler. 2,161,647; June 6.
Hydrogen sulphide and hydrocyanic acid and of readily volatile liquids from gases, Removal of. H. Baehr, W. Wenzel, and H. Mengdehl. 2,161,663; June 6.
Hydroxybenzocarbazole compounds. W. Broeg and H. Morschell. 2,161,697; June 6.
Ice bunker, Collapsible. G. P. Torburn. 2,160,993; June 6.
Ice inhibiting assembly for airplanes. E. B. Benson. 2,161,242; June 6.
Ignition distributor. R. H. Gibson. 2,161,251; June 6.
Ignition system. A. A. Linsell. 2,161,302; June 6.
Ignition system. J. Yolles. 2,161,605; June 6.
Image-observing device, Variable. L. G. Simjian. 2,161,263; June 6.
Impeller for wind-driven power apparatus. G. H. Albers. 2,161,444; June 6.
Implements, Heat treating wire formed. G. Gastrich. 2,161,742; June 6.
Incinerator. R. G. Gregg and A. E. Wirth. 2,161,4[illegible] June 6.
Incinerator system, Garbage. M. Blumenthal and L. Casper. 2,160,825; June 6.
Inclinometer for aircraft. P. E. Koster. 2,160,970; June 6.
Indicating device for automobiles. F. B. Critchlow. 2,161,457; June 6.
Indicating system and calibrating the same. A. B. Fuller. 2,161,344; June 6.
Indicator apparatus. A. E. Osborn. 2,161,310; June 6.
Inertia switch. R. Erich. 2,161,411; June 6.
Ink. W. H. Shields. 2,161,205; June 6.
Ink, Rotogravure. R. A. Shive, J. E. Coffee, and R. H. Kienle. 2,161,751; June 6.
Inner tube. J. W. Waber. 2,161,490; June 6.
Instrument for drawing scales. H. D. L. Nilsson. 2,161,551; June 6.
Insulated rail joint. C. A. Disbrow. 2,161,340; June 6.
Insulating material and process of manufacture. J. D. Morgan and R. E. Lowe. 2,161,186; June 6.
Insulation and the product, Obtaining electrical. R. E. Bishop. 2,161,447; June 6.
Insulation, Heat. R. E. Gould. 2,161,037; June 6.
Insulin preparation. L. Reiner. 2,161,198; June 6.
Interlocking mechanism. C. Norton and P. Karmel. 2,160,896; June 6.
Internal combustion engine. P. Maniscalco. 2,161,069; June 6.
Iron: *See*—
Electric iron.
Ironing board. A. I. Maldonado. 2,160,884; June 6.
Jack: *See*—
Pipe jack. Pump jack.
Jack, Apparatus to operate a. G. H. Inman. 2,161,053; June 6.
Jack for vehicles, Attached. P. Conradson. 2,161,136; June 6.
Jaw for wire clamps, Gripping. S. P. Becker. 2,161,694; June 6.
Jewelry, Leather. R. K. de Caracena. 2,161,506; June 6.
Joint: *See*—
Expansion joint. Universal joint.
Insulated rail joint.
Joint filling machine for bitumen filler. A. E. Stewart. 2,161,488; June 6.
Joint for hollow cables and elements thereof and making same. E. S. McConnell. 2,161,423; June 6.
Ketones and preparing same, Polynuclear cyclic. L. Ruzicka. 2,161,389; June 6.

Knife rest for sharpening knives. M. V. Moeller. 2,160,979; June 6.
Knitting machine. J. L. Getaz. 2,161,250; June 6.
Knitting machine and method, Split-foot. R. H. Lawson and A. N. Cloutier. 2,161,067; June 6.
Knitting machines, Electric stop mechanism for. E. Vossen. 2,161,209; June 6.
Knitting machines, Yarn carrier rod stop mechanism for straight. R. Anke. 2,161,240; June 6.
Labeling machine. C. Holm. 2,161,469; June 6.
Lamp: *See*—
Electric incandescent lamp. Electric lamp.
Lasting machine. F. C. Eastman and A. F. Pym. 2,160,846; June 6.
Latch and striker construction, Door. S. Brantingson. 2,161,757; June 6.
Latch for automobiles, Door. C. R. Bixler. 2,161,007; June 6.
Latch for lantern slide frames, Spring. O. Wittel. 2,161,396; June 6.
Latch mechanism for desk tops. S. S. Stephenson. 2,161,323; June 6.
Latex, Concentration of. A. M. Clifford. 2,161,455; June 6.
Lathe apron mechanism. W. F. Groene and H. C. Kemper. 2,160,966; June 6.
Lathe transmission and the like. W. F. Groene and G. W. Luning. 2,161,545; June 6.
Leather, Material for and method of cleaning. C. L. Campbell. 2,161,504; June 6.
Lens mount. J. H. McLeod. 2,161,368; June 6.
Leveling device. R. E. Miller. 2,161,718; June 6.
Light stabilizer for vinyl resins. A. K. Doolittle. 2,161,026; June 6.
Lighter, Cigar. F. Ringer. 2,161,386; June 6.
Lighting control apparatus. G. R. Pflasterer. 2,161,681; June 6.
Line holder. G. T. Ellis and R. C. Bratton. 2,161,703; June 6.
Linings, Treating shoe. D. La Valle. 2,160,878; June 6.
Liquid applying machine. E. Mueller. 2,161,187; June 6.
Liquid circulating device. C. C. Coons. 2,161,408; June 6.
Liquid dispensing apparatus. E. H. Bradley. 2,161,756; June 6.
Liquid dispensing apparatus computing registering mechanism. E. M. Orbeck. 2,161,765; June 6.
Liquid levels in storage batteries, System and means for controlling. F. L. Orr. 2,161,776; June 6.
Liquor, Method of and apparatus for burning waste. G. H. Tomlinson and L. S. Wilcoxson. 2,161,110; June 6.
Load expansion plate, Bridged. A. C. Fischer. 2,161,225; June 6.
Loader, Beet. A. C. Mehl. 2,161,073; June 6.
Lock: *See*—
Valve lock.
Lock. G. A. and L. K. Loftin. 2,161,519; June 6.
Locking device. F. E. Loughner and F. H. Morehead. 2,161,626; June 6.
Locking device for cores in film magazines. H. N. Fairbanks. 2,161,341; June 6.
Loom picker. H. M. Bacon. 2,161,662; June 6.
Lubricant. M. A. Dietrich. 2,161,615; June 6.
Lubricant. C. M. Loane and B. H. Shoemaker. 2,160,880–1; June 6.
Lubricant. W. Schreiber. 2,160,915; June 6.
Lubricant. B. H. Shoemaker and C. M. Loane. 2,160,917; June 6.
Lubricating composition. M. L. Crossley. 2,161,560; June 6.
Lubricating composition. K. H. Klipstein. 2,161,678; June 6.
Luminescent screen. J. H. de Boer and M. C. Teves. 2,161,458; June 6.
Machine for cutting and fastening helical springs. J. G. Strandberg. 2,161,689; June 6.
Machine for cutting fur trimmings for overshoes, slippers, and the like. S. Goldstein. 2,161,346; June 6.
Machine for making tubs and the like. A. M. Walstrom. 2,161,115; June 6.
Machine for making wired box parts. A. L. Rosenmund. 2,161,200; June 6.
Machine for slotting cutter bodies. W. F. Zimmermann. 2,161,269; June 6.
Machine for winding textile strands. L. A. Runton. 2,160,910; June 6.
Machine tool. B. R. Granberg. 2,160,858; June 6.
Magazine, Ammunition. L. V. S. Blacker. 2,161,696; June 6.
Magnesium, Producing pure. F. Hansgirg. 2,160,969; June 6.
Magnetic system for dynamic loudspeakers. A. Sauerland. 2,161,318; June 6.
Magnetic track brake. T. H. Schoepf and D. M. Ritchie. 2,161,684; June 6.
Mandrel, Expansible. E. E. Keyes. 2,161,061; June 6.
Manifold, Intake. D. A. Sullivan. 2,160,922; June 6.
Mask for stenciling. A. Fischer. 2,161,030; June 6.
Material and making the same, Protected vegetable fibrous. G. H. Ellis. 2,161,654; June 6.
Material, Bonding powdered metallic. C. E. Swartz. 2,161,597; June 6.
Material-breaking device. A. Harris. 2,161,041; June 6.
Material, Conveying and mixing comminuted. G. E. Westberg and H. Westberg. 2,161,553; June 6.
Material handling apparatus. J. F. Joy. 2,161,547; June 6.
Material, Method of and apparatus for reeling strip. M. Morgan. 2,161,076; June 6.
Material, Refractory. J. D. Sullivan. 2,160,923–4; June 6.
Materials and applying blended materials to cereals, Method of blending. H. H. Schmidt. 2,160,914; June 6.
Materials, Decoration of textile. F. D. Cheney and J. Learned. 2,160,827; June 6.
Materials, Making textile. C. Dreyfus and W. Whitehead. 2,160,839; June 6.
Materials, Manufacture of absorptive. K. Jaeger. 2,161,710; June 6.
Materials, Refractory. H. Kerla. 2,160,873; June 6.
Meat-roasting machine, Rotary. T. Berbeles. 2,160,953; June 6.
Melting furnace. P. Marx. 2,161,181; June 6.
Mercaptothiazoles, Manufacture of. J. R. Gage. 2,161,741; June 6.
Merocyanines and the preparation thereof. L. G. S. Brooker and R. H. Van Dyke. 2,161,331; June 6.
Metal sheets or articles, Producing galvanized. J. H. Hill and H. W. Theiss. 2,160,864; June 6.
Metals, Apparatus for melting. P. Marx. 2,161,180; June 6.
Metals from finely divided material, Device for dry separation of precious. L. E. Bigelow. 2,160,822; June 6.
Metals separation. H. H. Burton. 2,160,955; June 6.
Metasilicates and alkali metasilicate-containing compositions, Manufacture of alkali. M. Jaeger and F. Besemann. 2,161,515; June 6.
Meter: *See*—
Parking meter.
Methane, Nitrating. G. K. Landon. 2,161,475; June 6.
Milk bottle hanger. G. W. Potts. 2,161,195; June 6.
Mine skip. O. D. McClure. 2,161,583; June 6.
Mineral materials, Process and apparatus for treatment of. B. M. Bird and M. E. Haworth. 2,161,500; June 6.
Mirror assembly for an automobile body. L. F. Sarnes. 2,161,777; June 6.
Mirror, Make-up. G. H. Tussing. 2,161,730; June 6.
Mirror, Rear view. O. C. Ritz-Woller. 2,161,433; June 6.
Mixer: *See*—
Molasses feed mixer.
Mixing and dispensing apparatus. H. K. Painter. 2,160,983; June 6.
Mixing apparatus. C. T. McFarland. 2,161,631; June 6.
Modulation system for radio transmitters. E. Schulze-Herringen. 2,161,320; June 6.
Moistening device for duplicating machines. E. M. Bepello. 2,161,554; June 6.
Molasses feed mixer. C. W. Ensor and P. L. Bubb. 2,161,508; June 6.
Mold and core structure. H. E. McWane. 2,161,521; June 6.
Mold support and separating device. L. Wohlne. 2,161,397; June 6.
Molding process and materials. N. N. T. Samaras and M. Plunguian. 2,161,748–9; June 6.
Molds, Construction of. H. E. McWane. 2,161,522; June 6.
Mop assembly. S. L. Smith. 2,161,725; June 6.
Motor: *See*—
Water current motor.
Motor pump or electric generator. R. J. L. Moineau. 2,161,374; June 6.
Motor speed control, Spring. R. D. Smith. 2,161,207; June 6.
Mounting: *See*—
Ophthalmic mounting. Tool mounting.
Mounting or carrier for blades or knives for pug mills or other mixing apparatus. J. D. Thompson. 2,160,925; June 6.
Multiplying machine. R. A. Rowley. 2,161,592; June 6.
Musical instrument, Electrical. L. Hammond. 2,161,706; June 6.
Nasal filter device. E. W. Anderson. 2,161,607; June 6.
Navigating instrument. P. Sordoillet. 2,161,536; June 6.
Navigational indicating instrument. D. G. K. Moss. 2,161,077; June 6.
Nozzle, Spray. C. H. Carr. 2,161,016; June 6.
Nozzle, Spray. L. S. Wilcoxson and F. G. Ely. 2,161,111; June 6.
Oil and protecting same, Lubricating. E. W. Fuller. 2,161,566; June 6.
Oil burning apparatus. R. W. Beckett. 2,161,220–2; June 6.
Oil burning apparatus. W. J. Smith and W. W. Slaght. 2,161,437; June 6.
Oil, Dewaxing hydrocarbon. H. H. Gross. 2,161,569; June 6.
Oils, Dewaxing of mineral. E. C. Knowles. 2,161,581; June 6.
Oil distillates, Stabilized petroleum. J. Faust. 2,160,851; June 6.
Oil, Flushing. R. P. Russell. 2,160,911; June 6.
Oil, Motor lubricating. L. J. McKone and W. E. Lyons. 2,161,184; June 6.
Oil, Solvent refining and dewaxing hydrocarbon. W. B. Hendrey. 2,161,572; June 6.
Oil, Solvent refining of. W. P. Gee and M. Neuhaus. 2,161,567; June 6.

Oil, Stabilized mineral. R. C. Moran and E. W. Fuller. 2,161,585; June 6.
Oil, Treating hydrocarbon. R. J. Dearborn. 2,161,247; June 6.
Oil wells, Determining fluid density, fluid pressure, and the production capacity of. C. P. Walker. 2,161,733; June 6.
Oils by means of halogen compounds, Refining hydrocarbon. E. Terres, J. Moos, and E. Saegebarth. 2,161,753; June 6.
Oils, Cracking hydrocarbon. L. C. Kemp. 2,160,872; June 6.
Oils, Cracking hydrocarbon. W. E. Kuhn. 2,160,875; June 6.
Oils, Herbicidal. J. P. Warner and A. Voorhies, Jr. 2,160,929; June 6.
Oils, Neutralization of acid. M. T. Kendall. 2,161,580; June 6.
Oils, Processing hydrocarbon. M. H. Arveson. 2,160,814; June 6.
Oils, Treating marine. W. Hassard. 2,160,861; June 6.
Olefins, Polymerization of. D. R. Stevens and W. A. Gruse. 2,161,392; June 6.
Ophthalmic mounting. G. A. Hood. 2,161,296; June 6.
Optics, Electron. W. Henneberg. 2,161,466; June 6.
Ore concentrator. A. H. Leja. 2,161,476; June 6.
Ores, Concentrating. A. H. Leja. 2,161,477; June 6.
Ores, Concentration of. C. T. Morrison and H. T. Eastmann. 2,161,425; June 6.
Oscillation generating and modulating device. G. M. Charrier. 2,161,406; June 6.
Oscillator of the magnetron type. K. Posthumus and C. G. A. von Lindern. 2,161,087; June 6.
Oven, Baking. F. Werner. 2,161,211; June 6.
Oven for making artists' charcoal. W. Brown. 2,161,014; June 6.
Oxidation inhibitor and preparing same. A. N. Sachanen and P. G. Waldo. 2,161,317; June 6.
Package for stapling machines, Supply. C. I. Tager. 2,161,540; June 6.
Packaging mechanism. J. W. Thomas. 2,160,992; June 6.
Pad. A. A. Morelli. 2,161,720; June 6.
Pad forming apparatus. C. W. Avery and J. Vehko. 2,161,123; June 6.
Pad or paper sheet holder, Writing. G. Lindsay. 2,161,362; June 6.
Pan for harvesting machines, Grain. T. N. Pierson. 2,161,634; June 6.
Paper feeding mechanism. J. Q. Sherman and A. W. Metzner. 2,160,916; June 6.
Paper pulp, Making. E. P. Jones. 2,161,763; June 6.
Parachute attachment for airplanes. S. Papp. 2,161,722; June 6.
Parasiticide. J. M. Schaffer, P. D. Harwood, and E. E. Wehr. 2,161,261; June 6.
Parking meter. A. C. Hitzeman. 2,161,046; June 6.
Parking meter. C. Klemt. 2,161,518; June 6.
Pedal, Combination foot and accelerator. T. E. Hamson. 2,161,656; June 6.
Pen cap latching device, Fountain. M. A. Anderson. 2,161,691; June 6.
Percussion tool. R. J. Killgore. 2,161,062; June 6.
Petroleum lubricant composition. R. C. Moran and E. W. Fuller. 2,161,584; June 6.
Phenol stabilization. T. S. Carswell. 2,161,772; June 6.
Phonograph apparatus. W. H. Hutter. 2,161,168; June 6.
Phonograph, Automatic. E. C. Mueller. 2,161,483; June 6.
Photographic apparatus. C. E. K. Mees. 2,161,371; June 6.
Photographic device. H. M. Biele. 2,161,004; June 6.
Photographs, Making identifiable. R. W. Phillips. 2,161,193; June 6.
Photography and projection, Apparatus for. H. H. Bigley. 2,161,126; June 6.
Photography, Color. D. K. Allison. 2,161,735; June 6.
Picture analyzer, Television. H. Strübig. 2,161,643; June 6.
Pigments, Manufacture of titanium. R. W. Anerum and G. Oppegaard. 2,161,755; June 6.
Pin: *See*—
Coupling pin.
Pipe jack. P. Breza. 2,161,013; June 6.
Pipe lines, Protecting. H. F. Gremmel and H. D. Rice. 2,161,036; June 6.
Pipe wrapping machine. W. C. Robinette. 2,161,530; June 6.
Plant package. C. E. Wilson. 2,160,998; June 6.
Plastic derivatives of vinylidene chloride. J. H. Reilly and R. M. Wiley. 2,160,904; June 6.
Plasticizer. J. J. Schaefer. 2,161,201; June 6.
Plate for tractors, Street. E. H. Rider. 2,161,486; June 6.
Platform and pipe rack for oil well derricks. I. T. Minyard and E. L. Layman. 2,161,719; June 6.
Plow colter and shoe. A. E. Lindelof. 2,161,714; June 6.
Plug: *See*—
Electric plug. Fuse plug.
Pole or pile pulling device. S. G. Neff. 2,160,892; June 6.
Polishing machine. E. R. Martin. 2,160,885; June 6.
Polymerization. B. M. Marks. 2,161,481; June 6.
Polymerization products, Manufacture of rubberlike. B. J. Habgood, R. Hill, and L. B. Morgan. 2,161,038–9; June 6.
Portable apparatus for supplying heavy mastics to mastic applying guns. R. E. Kelley. 2,160,871; June 6.
Pose reflecting apparatus. 2,161,262; June 6.
Pose reflecting system. L. G. Simjian. 2,161,264; June 6.
Post or pile pulling device. S. G. Neff. 2,160,891; June 6.
Pouch, Cellophane tobacco. L. M. Klein. 2,161,474; June 6.
Poultry blood testing table. W. H. Crooks. 2,161,020; June 6.
Power, navigation, and flood control. W. F. Powers. 2,161,529; June 6.
Power transmission. T. B. Doe, E. L. Rose, and C. E. Grosser. 2,161,143; June 6.
Power transmission device. D. K. Pilkington. 2,161,429; June 6.
Power-transmission mechanism. A. H. Jessen. 2,161,473; June 6.
Precipitates, Manufacture of finely divided. E. J. Roberts and R. W. Shafor. 2,161,651; June 6.
Preselector. E. J. Mastney. 2,161,183; June 6.
Preserve base. J. H. Stanton. 2,161,238; June 6.
Press. F. B. Keall. 2,161,257; June 6.
Press. E. M. Winegar. 2,160,805; June 6.
Presses, Control mechanism for hydraulic. K. C. Monroe. 2,161,375; June 6.
Pressure regulator, Multistage. A. J. and I. F. Fausek. 2,160,849; June 6.
Pretzel machine. W. M. Young and L. B. Paules. 2,161,267; June 6.
Printer, Address plate. E. J. Von Pein. 2,161,602; June 6.
Prism system. H. Hensoldt. 2,161,623; June 6.
Projector, Page. A. D. Eltzen. 2,160,847–8; June 6.
Propeller. G. R. Mertens. 2,161,074; June 6.
Propellers, Protecting wooden. M. Scholz and A. Wagenitz. 2,161,533; June 6.
Protector: *See*—
Standard protector. Thread protector.
Pulley, Belt. E. K. Anderson. 2,161,270; June 6.
Pump: *See*—
Fluid pump. Well pump.
Fuel pump.
Pump for rotary fluids, Rotary. G. E. Bigelow and A. R. Weis. 2,161,695; June 6.
Pump jack. F. D. Gunsaullus. 2,161,252; June 6.
Pumping unit. P. C. Jackson. 2,161,298; June 6.
Putty from window sashes, Device for removing. L. E. Harmon, Jr. 2,161,040; June 6.
Pyrometer well. F. H. Rees. 2,161,432; June 6.
Rack for photostat machines, Squeegee. 2,161,229; June 6.
Radial draft milling apparatus. A. A. Davis. 2,161,505; June 6.
Radiant energy, Measuring. L. P. F. van der Grinten. 2,161,644; June 6.
Radiating device. W. M. Habnemann. 2,161,292; June 6.
Radiator arrangement for motor vehicles. O. Windberger. 2,161,690; June 6.
Radio receiving system. J. F. Dreyer, Jr. 2,161,616; June 6.
Rail anticreeper, Double bearing. F. A. Preston. 2,161,484; June 6.
Rail contact shoe, Third. R. H. Sierk. 2,161,100; June 6.
Railroad trackage and method of assembly, Smal scale model. H. Day. 2,161,562; June 6.
Range construction, Gas. A. Stockstrom and A. H. Brodbeck. 2,161,537; June 6.
Razor, Mechanical. J. H. Rand, Jr., and A. M. Ross. 2,160,987; June 6.
Razor, Safety. J. W. Ashworth. 2,161,403; June 6.
Receiver for ultrashort waves. E. Habann. 2,161,291; June 6.
Receptacle. H. D. MacDonald. 2,161,715; June 6.
Receptacles, Method and apparatus for forming metallic. J. K. Matter and G. J. Horak. 2,160,975; June 6.
Reciprocating mechanism for winding machine. P. P. Demay. 2,161,460; June 6.
Recording device. C. L. Ross. 2,160,909; June 6.
Reel: *See*—
Antenna reel. Automatic reel.
Reel for tray ovens. W. E. Davis and W. Schonwald. 2,161,738; June 6.
Reflector arrangement. E. Gerhard and H. Schariau. 2,160,853; June 6.
Refrigerating and water heating apparatus, Combined. L. F. and W. E. Whitney. 2,161,214; June 6.
Refrigerating apparatus. D. P. Heath. 2,161,293; June 6.
Refrigerating apparatus. H. B. Hull. 2,161,297; June 6.
Refrigerating apparatus. A. D. Karr. 2,161,059; June 6.
Refrigerating apparatus. A. A. Kucher. 2,161,420–1; June 6.
Refrigerating apparatus. H. F. Smith. 2,161,321; June 6.
Refrigerating apparatus control. W. J. Pritchard. 2,161,312; June 6.
Refrigerating unit. P. W. Des Roches. 2,161,667; June 6.

Refrigerator, Electric. R. M. Lewis. 2,161,713; June 6.
Regulator: *See*—
Fluid pressure regulator. Pressure regulator.
Gas flow regulator.
Regulator and automatic pumping mechanism, Tire pressure. M. Rinfret. 2,161,384; June 6.
Regulator for a swinging window, Window. L. R. Rhein and A. S. Greif. 2,161,109; June 6.
Relaying. H. Scharlau, W. Runge, W. Buschbeck, and K. Fritz. 2,160,913; June 6.
Relief valve. G. V. Rylsky. 2,161,531; June 6.
Repeater, Rural line. C. O. Wright and E. S. Peterson. 2,161,218; June 6.
Resins, Preparation of synthetic. C. C. Towne. 2,161,599; June 6.
Rice canning process. N. C. Coan. 2,161,110; June 6.
Rim construction for pianos. W. M. Day. 2,161,139; June 6.
Ring: *See*—
Shower ring.
Robot brake control. E. Neuschastle. 2,161,426; June 6.
Rock asphalt paving mixture and method of making, Cold laid. J. H. Conzelman. 2,160,833; June 6.
Rock bit. L. A. Gauthey. 2,160,852; June 6.
Roll adjusting means. G. W. von Hofe. 2,161,325; June 6.
Roller structure. G. Waalkes. 2,161,210; June 6.
Rolling bearing, Sleeve-type. J. A. Smitmans. 2,161,768; June 6.
Rolls in a printing machine, Method and means for renewing web. C. W. Ginsberg and R. A. Freeman. 2,160,855; June 6.
Roofing or surfacing material. S. L. Eason. 2,160,845; June 6.
Rubber and spring structure and producing the same, Tubular. E. A. Murphy, G. W. Trobridge, and A. R. Ward. 2,161,080; June 6.
Rubber composition, Plasticized synthetic. P. J. Wiezevich, now by judicial change of name to P. J. Gaylor. 2,160,995–7; June 6.
Rubber compounding. J. M. Ball. 2,161,445; June 6.
Rubber dispersion from latex and product, Preparing a concentrated. N. van Harpen. 2,161,731; June 6.
Rubber package fabrication. L. L. Salfisberg. 2,161,093; June 6.
Rubber vulcanization. G. W. Watt. 2,161,754; June 6.
Safety device for airplanes. J. Martin. 2,161,520; Safetypin. J. Mattfeldt. 2,161,260; June 6.
Saliva ejector. H. Freedman. 2,161,151; June 6.
Salts of theophylline and monoamino polyhydric alcohols, Soluble double. E. H. Volwiler and E. E. Moore. 2,161,114; June 6.
Sanding machine. D. B. Dimick. 2,161,701; June 6.
Scraper and digger, Earth. E. C. Smith. 2,161,102; June 6.
Scraping device. T. E. Cherry. 2,161,335; June 6.
Screen: *See*—
Luminescent screen.
Screw driver. C. S. Schaffer. 2,161,095; June 6.
Screw lug, Terminal. A. B. Dibner, now by change of name B. Dibner. 2,161,249; June 6.
Screws, Method and apparatus for making self-tapping. A. V. Boggild. 2,161,610; June 6.
Seal, Composite lubrication. A. R. Berman. 2,161,003; June 6.
Seal for rotating shafts. G. P. Gilman. 2,161,672; June 6.
Seat cover. G. E. Bishop. 2,161,448; June 6.
Securing device. G. F. L. Gilbert. 2,161,464; June 6.
Sedimentation. J. van N. Dorr. 2,160,838; June 6.
Seismic waves, According. J. P. Minton. 2,161,764; June 6.
Separator: *See*—
Check separator.
Sewing machine. A. H. De Voe. 2,161,140; June 6.
Sewing machine, Blind stitch. C. W. Mueller. 2,161,527; June 6.
Sewing machine needle-actuating mechanism. A. H. De Voe. 2,161,142; June 6.
Sewing machines, Adjustable eccentric for. R. Kaier. 2,161,579; June 6.
Sewing machines, Presser mechanism for. A. H. De Voe. 2,161,141; June 6.
Sewing machines, Ruffling attachment for. A. F. De Rose. 2,161,410; June 6.
Sewing machines, Work support for. C. W. Mueller. 2,161,528; June 6.
Shaft construction, Spline. C. D. Cutting. 2,161,137; June 6.
Shaft, Spline. C. D. Cutting. 2,161,138; June 6.
Shaver, Electric dry. G. G. Going. 2,160,965; June 6.
Sheet feeding and registering device. R. Reinartz. 2,160,906; June 6.
Sheet-feeding mechanism. G. A. Babicz. 2,161,124; June 6.
Sheet feeding mechanism. R. Reinartz. 2,160,905; June 6.
Sheet material and articles made therefrom, Laminated fiber rubber. A. F. Owen. 2,161,083; June 6.
Shelf for automobiles, Utility. E. W. Betts. 2,161,275; June 6.
Shield for registers. H. A. Bedol. 2,161,001; June 6.
Shim, Rail joint. A. F. Fifield. 2,161,149; June 6.
Shingle. E. E. Venrick. 2,161,440; June 6.
Shipping and display container. J. A. Clemens. 2,161,018; June 6.
Shipping box. A. Arutunoff. 2,161,402; June 6.
Shock insulator, Electric lighting socket. R. Cooke. 2,161,774; June 6.
Shoe and shank stiffener therefor. W. H. Nickerson. 2,161,188; June 6.
Shoe bottoms, Apparatus for use in applying pressure to. E. E. Winkley. 2,160,950; June 6.
Shoe construction and last. R. P. Schwartz. 2,160,991; June 6.
Shoe for steam irons, Fabric protecting. P. H. Brave. 2,161,009; June 6.
Shoe, Woven. S. Hurwit. 2,161,472; June 6.
Shower ring. O. W. Holden. 2,161,047; June 6.
Shutter and flash synchronizer for cameras. I. Jacobson. 2,161,355; June 6.
Shutter rebound check. C. W. Crumrine. 2,161,338; June 6.
Signal: *See*—
Distress signal. Turn signal.
Signal for braking systems, Warning. T. W. Vickers. 2,161,441; June 6.
Signatures and the like, Method of and mechanism for opening book. M. Christensen. 2,160,830; June 6.
Silk, Lubrication of artificial. H. H. Xmray, Jr., and E. A. Robinson. 2,161,354; June 6.
Silver alloy. F. R. Hensel, K. L. Emmert, and J. W. Wiggs. 2,161,574–5; June 6.
Silver base alloy. F. R. Hensel, K. L. Emmert, and J. W. Wiggs. 2,161,576; June 6.
Silver contact. F. R. Hensel and K. L. Emmert. 2,161,253; June 6.
Silver-magnesium contact. F. R. Hensel and K. L. Emmert. 2,161,254; June 6.
Skylight construction. A. Ratner and M. E. Anderson. 2,160,901; June 6.
Slicing and shelling machine, Combination. L. Skliris. 2,161,237; June 6.
Slider. W. A. Behrens. 2,160,819; June 6.
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Snow plow. L. J. Litchy. 2,160,972; June 6.
Soap, Fungicidal. S. M. Corbett. 2,160,834; June 6.
Socket, Radio. A. J. Schmitt. 2,161,487; June 6.
Sodium carbonate products, Making. G. A. Keep and E. E. Todd. 2,161,711; June 6.
Solutions for sulphanilamide, Stable. W. G. Christiansen. 2,161,407; June 6.
Solvent dewaxing process. O. S. Pokorny. 2,160,985; June 6.
SO_2 from ammonium sulphite solutions, Recovery of. H. F. Johnstone and A. D. Singh. 2,161,055; June 6.
Sound recording. J. H. McLeod and R. S. Morse. 2,161,369; June 6.
Spacer for the sides of moving-picture reels. N. Goldberg. 2,161,157; June 6.
Speed indicating means. R. F. Benson, A. E. Bauer, and A. C. Jayet. 2,160,821; June 6.
Speed recording system, High. H. O. Storm. 2,160,919; June 6.
Speed regulating device for prime movers. J. J. Baier. 2,161,693; June 6.
Spinal detector. D. B. Mears. 2,161,370; June 6.
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Spinning, Method and apparatus for. A. Formhals. 2,160,962; June 6.
Spring-controlled mechanism. G. Carwardine. 2,161,334; June 6.
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Standard protector, Cloth cutting machine. F. S. Smith. 2,161,103; June 6.
Steel and iron detector. G. C. Prokopenko. 2,161,635; June 6.
Steel sheet and plate and the manufacture thereof. F. G. White. 2,161,116; June 6.
Stool and table, Combined. G. B. Hansburg. 2,161,658; June 6.
Stove and grate therefor. F. E. Wolcott. 2,161,496; June 6.
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Subsurface formations, Apparatus for determining the hardness of. J. C. Karcher. 2,161,256; June 6.
Sulphur dioxide from waste gases, Recovering. H. F. Johnstone and A. D. Singh. 2,161,056; June 6.
Sulphur viscosity and resulting nonviscous sulphur compound, Lowering. G. A. Cain and J. B. Chatelain. 2,161,245; June 6.

Supercharger for internal combustion engines. A. N. Massey. 2,161,182; June 6.
Support: *See*—
Adjustable support.
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Support for scaffolds. P. Thomson. 2,161,239; June 6.
Supporter, Arch. S. A. Freda. 2,161,565; June 6.
Surfaces of grinding disks and the like, Arrangement for working the peripheral E. Brinkmann and P. Arning. 2,161,609; June 6.
Surrogates and additions for coffee, Production of. E. Freudl. 2,161,511; June 6.
Suspension device. H. König. 2,161,301; June 6.
Switch: *See*—
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Switch and signal mechanism for tracks and vehicle toys. K. Randall and M. Fleishman. 2,161,314; June 6.
Switch for toy railroads, Remotely controlled. E. E. McKeige and A. N. Smith. 2,161,424; June 6.
Syringe or applicator. H. B. Lermer. 2,161,178; June 6.
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Table attachment for automobiles. W. Critchlow. 2,160,958; June 6.
Table reciprocating mechanism, Grinding machine. C. G. Flygare. 2,161,150; June 6.
Table reciprocating mechanism, Hydraulic. B. H. Goehring. 2,161,156; June 6.
Table reciprocating mechanism, Hydraulic. W. H. Wood. 2,161,216; June 6.
Tabulating machine. E. J. Rabenda. 2,161,589; June 6.
Tachometer, Chronometric. G. S. Andrews. 2,160,813; June 6.
Tank for hydraulic transmissions, Pressure loaded. D. Gossler. 2,161,158; June 6.
Tanning substances, Manufacture of. R. Fingado and H. Hertlein. 2,161,288; June 6.
Tap. O. H. Yates. 2,161,497; June 6.
Target for table tennis, Ball returning. H. P. Frost. 2,161,463; June 6.
Telegraph signaling, System and method of code. F. L. Henderson. 2,161,294; June 6.
Telemetering system. C. F. Wallace. 2,161,603; June 6.
Telephone apparatus. L. Neumann. 2,161,232; June 6.
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Telescope mount for firearms, Adjustable. F. L. Humeston. 2,161,051; June 6.
Teletypewriter. C. J. Fitch and K. R. Schneider. 2,161,564; June 6.
Television and the like system. J. H. Jeffree. 2,161,299; June 6.
Television arrangement. M. Messner. 2,161,305; June 6.
Television images, Recording. R. Möller. 2,160,888; June 6
Terminal, Electric. J. E. Carlson. 2,161,246; June 6.
Tetrahydrofurfurylaminonaphthalene compounds and their preparation. J. G. McNally and J. B. Dickey. 2,161,745; June 6.
Textiles, Production of. E. Freund. 2,161,034; June 6.
Therapeutic agents. J. C. Krantz. 2,161,358; June 6.
Therapeutic products from intestinal mucous membrane and preparing them, Stable. C. L. Lautenschläger, F. Lindner, R. Rigler, and O. Schaumann. 2,161,422; June 6.
Thiazoles, Production of. O. Hromatka. 2,160,867; June 6.
Thread protector. E. J. Protin. 2,161,197; June 6.
Threading mechanism. C. E. Miller. 2,161,548; June 6.
Thresher-feeder mechanism. A. J. Hartley. 2,161,042; June 6.
Tire stitching apparatus. G. F. Wikle. 2,161,117; June 6.
Toe rest for shoe machines. A. R. Hubbard. 2,160,868; June 6.
Tool: *See*—
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Tool joint and making same. F. C. Gignoux. 2,161,568; June 6.
Tool mounting. J. B. Bradshaw. 2,161,665; June 6.
Tooth, Adjustable scarifier. J. R. Godfrey. 2,160,964; June 6.
Tooth brush. G. E. Hadden. 2,161,349; June 6.
Tooth brush and masseur, Combined. R. B. Davids. 2,160,835–6; June 6.
Toy balloon. V. Behrend. 2,161,274; June 6.
Toy elevated or trestle railroad. J. Bonnett. 2,161,276; June 6.
Toy, Spinning. I. Gertler. 2,161,154; June 6.
Traffic controlling apparatus, Railway. F. H. Nicholson. 2,160,894; June 6.
Trafficway, Dual. J. B. Strauss. 2,161,106; June 6.
Trailer coupling. H. L. Baker. 2,160,815; June 6.
Transducer, Electromechanical. E. Lakatos. 2,160,876; June 6.
Transfer sheet arrangement, particularly for use in typewriters or the like. W. Douglas. 2,161,144; June 6.
Transilluminating device. L. H. Schwartz. 2,161,688; June 6.
Transit system, Rapid. J. B. Strauss. 2,161,105; June 6.
Transmission control mechanism, Dual. H. R. Gallun and G. S. Waddell. 2,161,153; June 6.
Transmission for telephone receivers, Method and device for auxiliary. C. W. Cherry. 2,160,829; June 6.
Transmission mechanism for photographic cameras. H. Becker. 2,160,818; June 6.
Transmitters, Modulating high frequency. L. Pungs. 2,161,313; June 6.
Transport apparatus for stretchers and the like. F. Tintner. 2,161,541; June 6.
Trap: *See*—
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Tray, Carrying. H. F. McCord. 2,161,629; June 6.
Tray leveling device. W. Schonwald. 2,161,750; June 6.
Triangle solving instrument. B. M. Bensen. 2,160,820; June 6.
Trichlorethylene, Polymerization of. M. Mugdan and J. Winner. 2,161,078; June 6.
Trimming and/or cutting mechanism. C. M. Yoder. 2,160,999; June 6.
Trimming for license plates. H. J. Dinstbir. 2,160,960; June 6.
Truck, Die. B. G. Johnson. 2,161,578; June 6.
Truck having pedal operated fluid actuated lifting mechanism, Elevating. F. J. Shepard, Jr., and N. Warshaw. 2,161,660; June 6.
Truck, Refrigerating. M. H. Hovey. 2,161,050; June 6.
Truck, Selectively operable mechanically and fluid actuated lifting. F. J. Shepard, Jr., and N. Warshaw. 2,161,659; June 6.
Truss, Stiffening. J. P. Cordova. 2,161,337; June 6.
Tube: *See*—
Cathode ray tube. Inner tube.
Tubes, Method and apparatus for manufacturing inner. G. C. Miller and R. C. Sourwine. 2,161,775; June 6.
Turbine arrangement, Elastic fluid. J. H. Doran. 2,161,617; June 6.
Turn signal. H. E. Cittell. 2,161,336; June 6.
Turntable drive. J. Erwood. 2,161,148; June 6.
Universal joint. J. E. Padgett. 2,161,234; June 6.
Upholstery construction. C. E. Lenz, Jr., and R. A. Parker. 2,160,971; June 6.
Vacuum breaker. W. C. Shanley. 2,161,204; June 6.
Vacuum, High. K. C. D. Hickman. 2,160,863; June 6.
Valve: *See*—
Distributing valve. Relief valve.
Holding valve.
Valve. M. P. Laurent. 2,161,175; June 6.
Valve for compressors and the like, Discharge. A. Trask. 2,161,769; June 6.
Valve lock. S. Farber. 2,161,509; June 6.
Valve mechanism, Thermostatic. J. A. Cerny. 2,161,773; June 3.
Vanadates in reducing viscosity and gelation of drilling muds, Use of alkali. M. Williams. 2,160,949; June 6.
Vapor clearing. C. R. Pleasants. 2,160,900; June 6.
Vapor generator. J. Fletcher. 2,161,031; June 6.
Vegetable fiber products, Apparatus and method of producing. G. H. Ellis. 2,161,653; June 6.
Vehicle: *See*—
Automobile vehicle.
Vehicle accessory. A. S. Alexander. 2,161,771; June 6.
Vehicle loading apparatus. R. E. Wheless. 2,161,734; June 6.
Vehicle suspension. A. F. Hickman. 2,160,862; June 6.
Venetian blind head bar. S. Hammer. 2,161,414; June 6.
Ventilating apparatus. H. C. Hueglin. 2,161,471; June 6.
Ventilating device for projection apparatus. H. Mulch. 2,160,890; June 6.
Ventilator. W. B. Stout. 2,161,728; June 6.
Vibratory feeder. E. V. Francis. 2,161,342; June 6.
Vibratory system. L. Vieth, C. F. Wiebusch, and G. R. Yenzer. 2,161,489; June 6.
Vinylidine chloride co-polymers. E. C. Britton and C. W. Davis. 2,160,943; June 6.
Vinylidene chloride co-polymers. E. C. Britton, C. W. Davis, and F. L. Taylor. 2,160,940–2; June 6.
Vinylidene chloride co-polymers. E. C. Britton and F. L. Taylor. 2,160,946; June 6.
Vinylidene chloride co-polymers. R. C. Reinhardt. 2,160,947; June 6.
Vinylidene chloride, Polymeric. J. H. Reilly and R. M. Wiley. 2,160,903; June 6.
Vinylidene chloride polymeric compositions. R. M. Wiley, F. N. Alquist, and H. R. Slagh. 2,160,948; June 6.
Vinylidene chloride, Polymerization of. R. M. Wiley. 2,160,934; June 6.
Vinylidene chloride, Polymerizing. J. H. Reilly. 2,160,937; June 6.
Vinylidene chloride, Polymerizing. J. H. Reilly and C. R. Russell. 2,160,936; June 6.
Vinylidene chloride, Stabilization of. G. H. Coleman and J. W. Zemba. 2,160,944; June 6.
Vinylidene halides, Polymerization of. R. C. Reinhardt. 2,160,939; June 6.
Vinylidene halides, Polymerization of. R. M. Wiley. 2,160,933; June 6.
Vinylidene halides, Polymerization of. R. M. Wiley. 2,160,935; June 6.
Vinylidene halides, Polymerizing. J. H. Reilly and R. M. Wiley. 2,160,938; June 6.
Vulcanizing device. A. L. Wallace. 2,161,442; June 6.

Wall for pans, Dividing. F. G. Hoerr. 2,161,624; June 6.
Warp-uniting machine. M. N. Noling. 2,161,633; June 6.
Washing and rinsing machine, Combined. L. De Marco. 2,161,022; June 6.
Washing machine. H. F. Bariffi. 2,161,608; June 6.
Washing machine. G. W. Dunham. 2,161,618–9; June 6.
Washing machine. N. H. Watts. 2,161,604; June 6.
Washing process. C. J. Soderholm. 2,161,208; June 6.
Washing process, Laundry. M. Hushinsky. 2,161,167; June 6.
Waste spray particles, Treating. L. J. Anderson. 2,161,122; June 6.
Water current motor. G. W. Wise. 2,161,215; June 6.
Water deaeration. L. M. Goldsmith. 2,160,856; June 6.
Water heater. F. T. Holmes. 2,161,417; June 6.
Water, Method of and apparatus for purifying. R. L. Negus. 2,161,721; June 6.
Water treatment. P. M. Contant. 2,160,832; June 6.
Wax from petrolatum, Separating. J. M. Whiteley and H. G. Vesterdal. 2,160,930; June 6.
Wear compensating device. J. I. Hulshizer. 2,161,052; June 6.
Weather strip. C. H. Widman. 2,161,648; June 6.
Weather stripping. R. R. Cowen. 2,161,666; June 6.
Wedges, Method and apparatus for producing thin. B. O'Brien. 2,160,981; June 6.
Weft feeler mechanism for looms. Z. Sochor. 2,161,727; June 6.
Welding machine. J. A. Potchen. 2,161,430; June 6.
Well flow and test tool. R. L. Chappell. 2,161,135; June 6.
Well pump. E. T. Adams. 2,160,811; June 6.
Well testing device. F. E. O'Neill. 2,161,233; June 6.
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Wells, Treatment of. W. C. Phalen. 2,161,085; June 6.
Wheel guard fastener. R. W. Harroun. 2,161,161; June 6.
Wheel mounting. C. L. Eksergian. 2,161,740; June 6.
Wheel structure. W. H. Hoffmann. 2,161,351; June 6.
Wheel structure. J. H. Ploehn. 2,161,381; June 6.
Winding machine. E. J. Abbott. 2,160,810; June 6.
Winding machine. P. P. Demay. 2,161,459; June 6.
Window construction. A. Raphael. 2,161,637; June 6.
Window, Locomotive cab. H. H. Thomas. 2,161,108; June 6.
Wiper, Rolling label. C. Holm. 2,161,470; June 6.
Wiper, Windshield. C. P. Rogers. 2,161,682; June 6.
Wire straightening device. C. A. Robinson. 2,160,908; June 6.
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Work holder. J. Brenzinger. 2,160,954; June 6.
Wrapper and packaged article. C. B. Stiner. 2,161,595–6; June 6.
Wrapper tube forming machine. V. R. Luce. 2,161,479; June 6.
Wrench. H. W. Michalka. 2,160,977; June 6.
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Yarn carrier and spool brake mechanism therefor. E. F. Hathaway and W. Hixby. 2,161,762; June 6.
Yarn changing mechanism for circular knitting machines. S. E. Thomas. 2,161,324; June 6.
Yarn laying mechanism for straight-bar hosiery machines. A. W. Mutchler. 2,161,550; June 6.
Yarn presentation frame, Tuft. E. F. Hathaway and W. Hixby. 2,161,761; June 6.
Yarns and fabrics made therefrom, Treating. H. Rubinstein. 2,160,989; June 6.

CLASSIFICATION OF PATENTS

ISSUED JUNE 6, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Affiliated Clothiers, Inc., New York, N. Y. Clothing. Serial No. 418,126; June 13. Class 39.

Alden, C. H., Shoe Co. (See Old Colony Shoe Company.)

Allen-Bradley Company, Milwaukee, Wis. Electric switches. Serial No. 416,237; June 13. Class 21.

Almeida, Jose, New Bedford, Mass. Olive oil. Serial No. 415,206; June 13. Class 46.

Amendola, Raffaele, doing business as Enterprise Laboratories, New Haven, Conn. Hair tonic, shampoo, bay rum, etc. Serial No. 403,890; June 13. Class 6.

Ancienne Maison Louis Sanders Société Anonyme, St. Gilles, Belgium. Preparation used in digestive disturbances in human beings and animals. Serial Nos. 407,047–8; June 13. Class 6.

Angulus Schuhhaus Eberhard Muller Sohne, Frankfort-on-the-Main, Germany. Shoes and boots. Serial No. 414,181; June 13. Class 39.

Apfel, James A., doing business as Vac-U-Matic Products Co., Los Angeles, Calif. Accelerator actuated brake control. Serial No. 415,623; June 13. Class 19.

Arecibo Fruit Growers Cooperative Association, Arecibo, P. R. Canned fruit juices. Serial No. 418,130; June 13. Class 46.

Atlantic Laboratories. (See Persse, Joseph M.)

Babs Creations, Inc., New York, N. Y. Perfumes, face powder, lipsticks, etc. Serial No. 418,087; June 13. Class 6.

Barron's Publishing Co., Boston, Mass. Column in a publication. Serial No. 417,858; June 13. Class 38.

Bemax Laboratories, Inc., New York, N. Y. Medicinal preparation. Serial No. 417,478; June 13. Class 6.

Bergonize Company, The, Chicago, Ill. Water soluble, transparent, protective wall coating. Serial No. 417,902; June 13. Class 16.

Blue Label Manufacturing Company, Great Falls, Mont. Furniture polish. Serial No. 418,090; June 13. Class 16.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial Nos. 418,288–9; June 13. Class 27.

Borden Company, The, New York, N. Y. Fluid milk. Serial No. 417,357; June 13. Class 46.

Catanzaro, Alfred, doing business as A. Catanzaro & Co., Long Island City, N. Y. Olive oil. Serial No. 418,032; June 13. Class 46.

Cavalier Laboratories. (See Frieden Bros. Co., Inc.)

Cedacote Products Inc., New York, N. Y. Preparations which repel moths and other insects. Serial No. 418,674; June 13. Class 6.

Celotex Corporation, The, Chicago, Ill. Lightweight aggregate. Serial No. 418,625; June 13. Class 1.

Celotex Corporation, The, Chicago, Ill. Mineral surfaced roll roofing and soft plastic cement. Serial No. 418,626; June 13. Class 12.

Celotex Corporation, The, Chicago, Ill. Roll roofing. Serial No. 418,627; June 13. Class 12.

Chenille Manufacturing Company, Inc., New York, N. Y. Chenilles. Serial No. 418,259; June 13. Class 40.

Claronex Products, Inc., New York, N. Y. Liquid to inhibit the rusting or corrosion of metals. Serial No. 417,400; June 13. Class 6.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Scripts for a series of commercial radio broadcasts. Serial No. 416,504; June 13. Class 38.

Colonial Tobacco Company. (See Griffith, Raymond F.)

Cosas, Todas, Inc., Santa Fe, N. Mex. Dresses. Serial No. 417,984; June 13. Class 39.

Cosby Brush & Import Company, Inc., New York, N. Y. Toilet brushes. Serial No. 418,677; June 13. Class 29.

Dalar Medical Laboratories, Inc., New York, N. Y. Ointment for skin diseases. Serial No. 417,644; June 13. Class 6.

Dalar Medical Laboratories, Inc., New York, N. Y. Ear drops. Serial No. 417,645; June 13. Class 6.

Davis, Sam J., Homestead, Fla. Fresh avocados. Serial No. 417,906; June 13. Class 46.

Dehls & Stein, Inc., Newark, N. J. Cereal extract for use in the brewing industry. Serial No. 417,367; June 13. Class 48.

D'Emarese, E., di S. Richetta & Figli, Turin, Italy. Vermouth. Serial No. 408,187; June 13. Class 47.

Deutschmann, Tobe, Corporation, Canton, Mass. Electrical measuring apparatus. Serial No. 389,120; June 13. Class 26.

Dixie Mills Company, East St. Louis, Mo. Dog food. Serial No. 413,703; June 13. Class 46.

Dobeckmun Company, The, Cleveland, Ohio. Printed transparent sheeting, printed coated paper, etc. Serial No. 416,497; June 13. Class 37.

Eagle Clothes, New York, N. Y. Overcoats, topcoats, and suits. Serial No. 417,872; June 13. Class 39.

Eclipse Lawn Mower Company, Prophetstown, Ill. Power lawn mowers. Serial Nos. 418,514–5; June 13. Class 23.

Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. Serial No. 411,406; June 13. Class 21.

Enterprise Laboratories. (See Amendola, Raffaele.)

Eskimo Pie Corporation, Bloomfield, N. J. Edible coating such as chocolate. Serial No. 403,120; June 13. Class 46.

Evans', L. B., Son Company, Wakefield, Mass. Men's and boys' moccasin slippers. Serial No. 412,207; June 13. Class 39.

Fibreboard Products Inc., San Francisco, Calif. Containers and receptacles and parts thereof. Serial No. 418,038; June 13. Class 2.

Filippone, B., & Co. Inc., Passaic, N. J. Macaroni. Serial No. 418,001; June 13. Class 46.

Folker Fabrics, Inc., New York, N. Y. Printed textile fabrics in the piece. Serial Nos. 418,023–4; June 13. Class 42.

Ford, C. P., & Co., Rochester, N. Y. Women's shoes. Serial No. 417,909; June 13. Class 39.

Frieden Bros. & Co., Inc., doing business as Cavalier Laboratories, Norfolk, Va. Home use ammonia, bluing, petroleum jelly, etc. Serial No. 418,774; June 13. Class 6.

General Chemical Company, New York, N. Y. Insecticides. Serial No. 417,963; June 13. Class 6.

General Mills, Inc., Minneapolis, Minn. Granular synthetic detergent. Serial No. 417,609; June 13. Class 4.

Gernes Garment Company, Inc., The, Kansas City, Mo. Cotton, rayon piece goods. Serial No. 416,849; June 13. Class 42.

Gimbel Brothers, Inc., New York, N. Y. Women's apparel. Serial No. 418,101; June 13. Class 39.

Golden Rule Oil Company, The, Wichita, Kans. Gasoline, kerosene, and lubricating oils and greases. Serial No. 415,386; June 13. Class 15.

Griffith, Raymond F., doing business as Colonial Tobacco Company, St. Louis, Mo. Smoking tobacco. Serial No. 417,171; June 13. Class 17.

Gum Incorporated, Philadelphia, Pa. Chewing gum. Serial No. 417,573; June 13. Class 46.

H. & M. Neckwear Co. (See Mayer, William.)

Hanes Associated Mills, Inc., New York, N. Y. Hosiery. Serial No. 415,553; June 13. Class 39.

Hart Products Corporation, The, New York, N. Y. Waterproofing compound for textiles. Serial No. 417,457; June 13. Class 6.

Hartness, Ray A., Weslaco, Tex. Fresh vegetables. Serial No. 417,491; June 13. Class 46.

Heirloom Needlework Guild, Inc., New York, N. Y. Yarn. Serial No. 418,284; June 13. Class 43.

Horn, Edward, doing business as Horn Cheese Company, Beaver Dam, Wis. Cheese. Serial No. 417,691; June 13. Class 46.

House of York, Ltd., New York, N. Y. Women's and misses' coats and suits. Serial No. 416,421; June 13. Class 39.

Huffman Manufacturing Company, The, Dayton, Ohio. Bicycles and structural parts therefor. Serial No. 418,442; June 13. Class 19.

Imperial Knife Co., Inc., Providence, R. I. Pocket knives. Serial No. 411,532; June 13. Class 23.

Industrial Sugars Corporation, Chicago, Ill. Syrups. Serial No. 418,044; June 13. Class 46.

International Silver Company, Meriden, Conn. Silver-plated flatware. Serial No. 418,443; June 13. Class 28.

Italian Swiss Colony, San Francisco, Calif. Wines. Serial No. 418,106; June 13. Class 47.

Janesville Clothing Company, Janesville, Wis. Work clothing. Serial No. 417,877; June 13. Class 39.

Jenaer Glaswerk Schott & Gen., Jena, Germany. Medical, surgical, and dental instruments, materials, and appliances, etc. Serial No. 376,161; June 13. Class 44.

Jenaer Glaswerk Schott & Gen., Jena, Germany. Medical, surgical, and dental instruments, materials, and appliances, etc. Serial No. 378,963; June 13. Class 44.

Johnson, Louis, Co. (See Nelson, John.)

Johnson, S. C., & Son, Inc., Racine, Wis. Varnish. Serial No. 415,121; June 13. Class 16.

Karasik Bros. Co., Chicago, Ill. Canned foods. Serial No. 375,708; June 13. Class 46.

Karfoam Corporation, Dover, Del., and New York, N. Y. Automobile wash. Serial No. 417,649; June 13. Class 4.

Kayser, Julius, & Co., New York, N. Y. Ladies' underwear. Serial No. 418,252; June 13. Class 39.

Kelco Company, San Diego, Calif. Sodium alginate. Serial No. 417,918; June 13. Class 46.

Kessler, Schwartz & Co., Inc., New York, N. Y. Jackets, suits, skirts and combinations thereof. Serial No. 418,197; June 13. Class 39.

Kleenco Boiler Products Company. (See Windschauer, Max.)

Klix Inc., Los Angeles, Calif. Toasted soy bean kernels. Serial No. 415,401; June 13. Class 46.
Knight, J. B., Sr., doing business as Old 97 Manufacturing Co., and La Charma Company, Tampa, Fla. Toilet creams, shampoos, deodorants, etc. Serial No. 413,967; June 13. Class 6.
Kresge, Sebastian S., doing business as Kresge Department Store, Newark, Newark, N. J. Coats, suits, dresses, etc. Serial No. 417,376; June 13. Class 39.
Kresge, S. S., Company, Detroit, Mich. Watches and clocks. Serial No. 418,278; June 13. Class 27.
La Charma Company. (See Knight, J. B., Sr.)
Laing, R. W., & Son, Cleveland Heights, Ohio. Safety device for use by fumigators. Serial No. 412,711; June 13. Class 25.
Landi & Avino, New York, N. Y. Canned tomatoes. Serial No. 413,073; June 13. Class 46.
Laucks, I. F., Inc., Seattle, Wash. Plywood. Serial No. 410,595; June 13. Class 12.
Les Parfums de Dana, Inc., New York, N. Y. Perfumes, toilet water, cologne, etc. Serial No. 415,295; June 13. Class 6.
Lily's Chocolate Shop. (See Papas, Christus A.)
Lorillard, P., Company, New York, N. Y. Cigarettes and smoking tobacco. Serial No. 418,487; June 13. Class 17.
Lyndon Products Corporation, Norwalk, Conn. Perfume. Serial No. 417,882; June 13. Class 6.
Lyon & Coulson, Inc., Buffalo, N. Y. Fishing leaders. Serial No. 411,173; June 13. Class 22.
Mackintosh-Hemphill Company, Pittsburgh, Pa. Unfinished castings. Serial Nos. 415,725–8; June 13. Class 14.
Macy, R. H., & Co., Inc., New York, N. Y. Perfumes. Serial No. 415,047; June 13. Class 6.
Maine Potato Growers, Inc., Presque Isle, Maine. Seed potatoes. Serial No. 418,010; June 13. Class 1.
Malcolmson Coal Company, Detroit, Mich. Coal and coke. Serial No. 409,549; June 13. Class 1.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electric condensers or capacitors, electrolytic condensers or capacitors, etc. Serial No. 418,489; June 13. Class 21.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Variable inductance devices, inductive tuning devices, etc. Serial No. 418,490; June 13. Class 21.
Marathon City Brewing Company, The, Marathon City, Wis. Beer. Serial No. 416,446; June 13. Class 48.
Marion, Frank, doing business as Marion Pharmacal Laboratories, New York, N. Y. Medicinal and pharmaceutical preparations. Serial No. 413,020; June 13. Class 6.
Marion, Frank, doing business as Marion Pharmacal Laboratories, New York, N. Y. Medicinal and pharmaceutical preparations. Serial No. 415,951; June 13. Class 6.
Marlin Firearms Company, The, New Haven, Conn. Shotguns. Serial No. 416,431; June 13. Class 9.
Match King, Inc., Chicago, Ill. Electric hair clippers and shaving devices. Serial No. 417,290; June 13. Class 23.
Maurice, Bert J., Washington, D. C. Ointment. Serial No. 419,029; June 13. Class 6.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Crib sheets and pillow cases, knit crib sheets, etc. Serial No. 417,698; June 13. Class 42.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Underwear for women and misses. Serial No. 417,699; June 13. Class 39.
May Girl Coat Company, New York, N. Y. Children's coats, snow suits, and dresses. Serial No. 414,747; June 13. Class 39.
Mayer, William, doing business as H. & M. Neckwear Co., New York, N. Y. Bow neckties. Serial No. 417,844; June 13. Class 39.
McLoughlin Bros., Inc., Springfield, Mass. Paper toy. Serial No. 418,550; June 13. Class 22.
Mead-Suydam Company, Orange, N. J. Burial vaults. Serial No. 417,650; June 13. Class 2.
Melbern, Inc., Los Angeles, Calif. Cosmetic brushes. Serial No. 413,793; June 13. Class 29.
Memorials Permanesque Inc., Barre, Vt. Granite monuments and memorials. Serial No. 418,723; June 13. Class 50.
Mervine, Hilda, Chicago, Ill. French dressing. Serial No. 417,520; June 13. Class 46.
Midcontinent Export Corporation, New York, N. Y. Lubricating oils and greases. Serial No. 418,257; June 13. Class 15.
Miller, J. E., Sr., Huntington, W. Va. Preparation for treating diseases of the mouth and throat. Serial No. 417,499; June 13. Class 6.
Miracle Patent Company. (See Rosenberger, Adolf.)
Monocraft Products Co. Inc., New York, N. Y. Pins, clips, bracelets, etc. Serial No. 398,544; June 13. Class 28.
Monsanto Chemical Company, St. Louis, Mo. Aromatic substances. Serial No. 418,051; June 13. Class 6.
Montgomery, Marjorie, Inc., Los Angeles, Calif. Dresses and play suits. Serial No. 416,737; June 13. Class 39.
Municipal Liquor Stores Association, Minneapolis, Minn. Whiskies, gin, brandy, etc. Serial No. 412,824; June 13. Class 49.
National Broadcasting Company, Inc., New York, N. Y. Maps. Serial No. 417,973; June 13. Class 38.
Nelson, John, doing business as Louis Johnson Co., Chicago, Ill. Artificial fish lures. Serial No. 413,733; June 13. Class 22.
Nestra Packing Company, Berkley, Mich. Dog food. Serial No. 417,411; June 13. Class 46.
Nicosia Permanent Waving Co., Houston and Dallas, Tex. Permanent wave cream. Serial No. 418,399; June 13. Class 6.
O. & R. Products, Inc., New York, N. Y. Paint and varnish remover. Serial No. 418,590; June 13. Class 16.
Old Colony Shoe Company, Brockton, Mass. Boots and shoes. Serial No. 418,357; June 13. Class 39.
Old Colony Shoe Company, doing business as C. H. Alden Shoe Co., Brockton, Mass. Boots and shoes. Serial No. 418,358; June 13. Class 39.
Old 97 Manufacturing Co. (See Knight, J. B., Sr.)
Owens-Illinois Glass Company, Toledo, Ohio. Electrical insulators. Serial No. 418,359; June 13. Class 21.
Papas, Christus A., doing business as Lily's Chocolate Shop, Covington, Ky. Candy. Serial No. 403,559; June 13. Class 46.
Parker Rust Proof Company, Detroit, Mich. Chemicals for treating steel surfaces. Serial No. 418,980; June 13. Class 6.
Parsons Chemical Works, Grand Ledge, Mich. Seed treating compounds, disinfectants, repellents, etc. Serial No. 418,310; June 13. Class 6.
Pennsylvania Aircraft Syndicate, Ltd., Philadelphia, Pa. Solid metal stays, bolts, clevis pins, etc. Serial No. 418,450; June 13. Class 13.
Pepper, Jas. E., & Company, Lexington, Ky., and New York, N. Y. Whiskey, gin, rum, etc. Serial No. 418,530; June 13. Class 49.
Persse, Joseph M., doing business as Atlantic Laboratories, Savannah, Ga. Medicinal preparation. Serial No. 416,615; June 13. Class 6.
Pervel Corporation, New York, N. Y. Cellulose material. Serial No. 417,848; June 13. Class 50.
Pharis Tire and Rubber Company, The, Newark, Ohio. Pneumatic tires and tubes. Serial No. 405,614; June 13. Class 35.
Precision Electro-Mecanique S. A., Delemont, Switzerland. Spark plugs, ignition distributors, ignition coils, etc. Serial No. 411,511; June 13. Class 21.
R. G. S. Manufacturing Corp., New York, N. Y. Boys' suits and hats. Serial No. 415,662; June 13. Class 39.
Ripley Vegetable Company, Inc., Mercedes, Tex. Fresh vegetables. Serial No. 418,264; June 13. Class 46.
Robie, Edward, New York, N. Y. Printed stocks and bonds. Serial No. 417,472; June 13. Class 38.
Rosenberger, Adolf, doing business as Miracle Patent Company, New York, N. Y. Implement for use by tailors for inserting loops of thread in fabric. Serial No. 418,312; June 13. Class 23.
Rosenthal Ackerman Millinery Company, St. Louis, Mo. Hats for ladies and misses. Serial No. 416,616; June 13. Class 39.
Royal Undergarment Company, Inc., New York, N. Y. Slips, panties, brassières, etc. Serial No. 417,302; June 13. Class 39.
Rugby Knitting Mills, Inc., Buffalo, N. Y. Sweaters. Serial No. 418,117; June 13. Class 39.
Saks & Company, New York, N. Y. Women's and misses' shoes. Serial Nos. 418,364–5; June 13. Class 39.
San Pat Vegetable Co. Inc., Sinton, Tex. Fresh vegetables. Serial No. 417,588; June 13. Class 46.
Schenley Import Corporation, New York, N. Y. Wines. Serial Nos. 418,270–1; June 13. Class 47.
Schlanger & Son, New York, N. Y. Corsets and brassières. Serial No. 417,507; June 13. Class 39.
Scientific Plant Food Co., Miami, Fla. Plant food and fertilizer. Serial No. 416,586; June 13. Class 10.
Sears, Roebuck and Co., Chicago, Ill. Electric vacuum cleaners. Serial No. 418,267; June 13. Class 21.
Serr Manufacturing Company, New York, N. Y. Steam egg poachers. Serial No. 418,016; June 13. Class 13.
Sierra Rubber Company, Los Angeles, Calif. Plumbing rubber specialties. Serial No. 418,315; June 13. Class 13.
Snell-Jones Tack Corp., Brockton, Mass. Tacks, nails, glaziers' points, etc. Serial No. 417,104; June 13. Class 13.
Solomon, M., & Sons, Baltimore, Md. Clothing. Serial No. 414,086; June 13. Class 39.
Soya-Vitamin Sales Corp., New York, N. Y. Vegetable shortening and cooking product. Serial No. 417,826; June 13. Class 46.
Standard Brands Incorporated, New York, N. Y. Frozen egg white material. Serial No. 417,982; June 13. Class 46.
Standard Sanitary Mfg. Co., Pittsburgh, Pa., and San Francisco, Oakland, and Sacramento, Calif. Enameled iron plumbing fixtures. Serial No. 413,324; June 13. Class 13.
Stanard-Tilton Milling Co., Alton, Ill. Flour. Serial No. 410,849; June 13. Class 46.
Stearns, Frederick, & Company, Detroit, Mich. Preparation used in the treatment of dysmenorrhea. Serial No. 418,954; June 13. Class 6.

Stein, A., & Company, Chicago, Ill. Garters, armbands, suspenders, etc. Serial No. 416,749; June 13. Class 39.
Stock, Arthur J., doing business as Stock Engineering Company, Cleveland, Ohio. Coal handling equipment. Serial No. 399,902; June 13. Class 23.
Superior Tube Company, Philadelphia and Norristown, Pa. Metal tubing. Serial No. 417,594; June 13. Class 13.
Sweet Life Food Corporation, Brooklyn, N. Y. Canned fruits, vegetables, fish, etc. Serial No. 414,513; June 13. Class 46.
Sylvania Industrial Corporation, New York, N. Y. Cellulose ethers. Serial No. 419,092; June 13. Class 6.
Tien Chu Ye-Tsin Manufacturing Co., Ltd., Shanghai, China. Food flavoring compound. Serial No. 408,254; June 13. Class 46.
Timme, Otto, deceased, Estate of, doing business as E. F. Timme & Son, New York, N. Y. Textile rugs. Serial No. 415,247; June 13. Class 42.
Touraine Company, Inc., New York, N. Y. Knitted suits, sweaters, jackets, etc. Serial No. 417,986; June 13. Class 39.
Triplex Oil Refining Company, Inc., Long Island City, N. Y. Motor lubricating oils. Serial No. 418,659; June 13. Class 15.
Triplex Oil Refining Company, Inc., Long Island City, N. Y. Lubricating oils. Serial No. 418,660; June 13. Class 15.
U. S. Slicing Machine Company, La Porte, Ind. Meat tendering machines and slicing machines and parts thereof. Serial No. 418,376; June 13. Class 23.
Ulrici Medicine Company, Inc., The, New York, N. Y. Preparation useful as a tonic and reconstituent. Serial No. 417,828; June 13. Class 6.
United Frosted Foods, Inc., Chicago, Ill. Fresh frozen vegetables, fruits, berries, etc. Serial No. 417,312; June 13. Class 46.
Universal Button Fastening & Button Company, Detroit, Mich. Combination toasters and grillers. Serial No. 405,376; June 13. Class 13.
Utilitog Company, The, Warrensburg, Mo. Women's uniforms. Serial No. 417,560; June 13. Class 39.
Vac-U-Matic Products Co. (See Apfel, James A.)
Varsity Underwear Company, Baltimore, Md. Abbreviated shorts, shorts, and undershirts. Serial No. 415,613; June 13. Class 39.
Vayo, A. H., Harlingen, Tex. Fresh citrus fruits, and vegetables and canned orange juice, etc. Serial No. 407,397; June 13. Class 46.
Walt Associates, Inc., The, New York, N. Y. Bituminous paving mixture. Serial No. 418,611; June 13. Class 12.
Watson Company, The, Attleboro, Mass. Flatware and hollowware. Serial No. 418,220; June 13. Class 28.
Webb Laboratories, Schenectady, N. Y. Vitamin preparations. Serial No. 417,947; June 13. Class 6.
Weinlich-Hatheway, Inc., New York, N. Y. Sample carriers or display books or folders of swatches. Serial No. 416,822; June 13. Class 3.
Wellington Sears Company, Incorporated, New York, N. Y. Canvas duck. Serial No. 418,465; June 13. Class 42.
Western Bag Company, San Francisco, Calif. Burlap bags. Serial No. 415,750; June 13. Class 2.
Wieschan, John, doing business as John Wieschan & Co., McAllen, Tex. Fresh vegetables. Serial No. 418,086; June 13. Class 46.
Willett, Consider H., Inc., Louisville, Ky. Furniture. Serial No. 414,246; June 13. Class 32.
Windschauer, Max, doing business as Kleenco Boiler Products Company, New York, N. Y. Chemical for cleaning boilers. Serial No. 418,082; June 13; Class 6.
Winthrop Chemical Company, Inc., New York, N. Y. Vitamin A preparation. Serial No. 417,991; June 13. Class 6.
Wood Shovel and Tool Company, The, Piqua, Ohio. Shovels, spades, and scoops. Serial No. 418,547; June 13. Class 23.
Wright Aeronautical Corporation, Paterson, N. J. Internal combustion engines. Serial No. 418,502; June 13. Class 23.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Medicinal compounds. Serial No. 417,515; June 13. Class 6.
X-Ray Sales Method, Inc., Chicago, Ill. Illustrating books, catalogues, and advertising displays. Serial No. 406,793; June 13. Class 38.
Zaninovich, Marko, Earlimart and Deland, Calif. Fresh fruits, deciduous and citrus, and fresh grapes. Serial No. 411,066; June 13. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Accessories Manufacturing Company. (See Pratt, Elbert H.)
Adhesive Lime Limited, Montreal, Quebec, Canada. Lime. 368,367; June 13; Serial No. 415,869; published Mar. 28, 1939. Class 12.
Aitken, Beekman, doing business as Trade Mark Protectors, New York, N. Y. Annual publication. 368,297; June 13; Serial No. 414,680; published Mar. 21, 1939. Class 38.
Albert, Lisa, doing business as L. Albert Co., New York, N. Y. Pad for a newly born infant. 368,248; June 13; Serial No. 412,207; published Apr. 4, 1939. Class 42.
Alexander, M. Bishop, Charleston, S. C. Periodical. 368,306; June 13; Serial No. 414,940; published Mar. 28, 1939. Class 38.
American Broach & Machine Co., Ann Arbor, Mich. Machines, machinery, and tools, and parts thereof. 126,979; renewed Oct. 21, 1939.
American Lace Paper Company, Milwaukee, Wis. Paper baking cups, candy cups, eclair cases, etc. 368,242; June 13; Serial No. 411,327; published Dec. 6, 1938. Class 2.
American Stores Company, Philadelphia, Pa. Coffee. 368,220; June 13; Serial No. 404,679; published Apr. 4, 1939. Class 46.
American Stove Company, St. Louis, Mo. Heating, lighting, and ventilating apparatus. 126,623; renewed Sept. 30, 1939.
Anaheim Orange & Lemon Association, by change of name to Anaheim Valencia Orange Association, Anaheim, Calif. Fresh citrus fruits. 126,982–3; renewed Oct. 21, 1939.
Anaheim Orange & Lemon Association, by change of name to Anaheim Valencia Orange Association, Anaheim, Calif. Citrus fruits. 127,262; renewed Nov. 4, 1939.
Armstrong Cork Company, Lancaster, Pa. Insulating fiber board. 368,336; June 13; Serial No. 415,280; published Mar. 28, 1939. Class 12.
Atlas Supply Company, Newark, N. J. Battery testers. 368,282; June 13; Serial No. 414,388; published Apr. 4, 1939. Class 26.
Austenal Laboratories, Inc., New York, N. Y. Porcelain teeth, dentures and denture parts. 368,235; June 13; Serial No. 409,637; published Apr. 4, 1939. Class 44.
Automotive News Service, New York, N. Y. Publications. 368,227; June 13; Serial No. 406,489; published Apr. 4, 1939. Class 38.
Baker Clothes Inc., Philadelphia, Pa. Suits, coats, vests, etc. 368,329; June 13; Serial No. 415,200; published Mar. 28, 1939. Class 39.
Barrie, Chester, Inc., New York, N. Y. Clothing. 368,255; June 13; Serial No. 412,796; published Mar. 28, 1939. Class 39.
Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 368,356; June 13; Serial No. 415,691; published Apr. 4, 1939. Class 42.
Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 368,357–8; June 13; Serial Nos. 415,695–6; published Apr. 4, 1939. Class 42.
Behr-Manning Corporation, Troy, N. Y. Fabric treated with non-slipping material. 368,284; June 13; Serial No. 414,429; published Apr. 4, 1939. Class 50.
Berkshire Knitting Mills, Wyomissing, Reading, Pa. Hosiery. 368,339; June 13; Serial No. 415,440; published Mar. 28, 1939. Class 39.
Boott Mills, Lowell, Mass. Towels, toweling in piece, curtains, etc. 368,352; June 13; Serial No. 415,630; published Apr. 4, 1939. Class 42.
Bosco Company, New York, N. Y. Chocolate flavored syrup. 368,343; June 13; Serial No. 415,540; published Apr. 4, 1939. Class 46.
Brehmer, Gebrüder, Leipzig-Plagwitz, Germany. Stitching, sewing, stamping, etc. machines for cardboard, leather, and like materials. 368,239; June 13; Serial No. 410,680; published Apr. 4, 1939. Class 23.
Brewer-Titchener Corporation, The, Cortland, N. Y. Vehicle parts. 127,337; renewed Nov. 11, 1939.
Brown, L. L., Paper Company, Adams, Mass. Writing papers. 368,290; June 13; Serial No. 414,551; published Apr. 4, 1939. Class 37.
Brown, William A., Philadelphia, Pa. Air conditioning devices. 368,393; June 13. Class 34.
Bullock's, Inc., Los Angeles, Calif. Hand soap and shaving cream. 368,202; June 13; Serial No. 390,686; published Apr. 4, 1939. Class 4.
Burroughs Adding Machine Company, Detroit, Mich. Inking ribbons. 368,330; June 13; Serial No. 415,210; published Apr. 4, 1939. Class 11.
Calbar Paint & Varnish Company, Philadelphia, Pa. Painters' and caulkers' tools. 368,285; June 13; Serial No. 414,434; published Apr. 4, 1939. Class 23.
Charleston Milling & Produce Company, The, Charleston, W. Va., now by change of name Charleston Milling Company. Wheat flour and scratch feed. 368,199; June 13; Serial No. 375,692; published Apr. 12, 1938. Class 46.
Chattanooga Bakery. (See Mountain City Mill Co.)
Cherry-Burrell Corporation, Chicago, Ill. Cream, ice cream mix, milk, etc. 368,256; June 13; Serial No. 412,942; published Apr. 4, 1939. Class 23.
Chicago Tobacco Co., Chicago, Ill. Pipe tobacco and cigarettes. 368,265; June 13; Serial No. 413,434; published Apr. 4, 1939. Class 17.
Cohen, S., & Sons, Baltimore, Md. Cloth coats, suits, skirts, etc. 368,293; June 13; Serial No. 414,624; published Apr. 4, 1939. Class 39.

Cohn, Goldwater Company, to Cohn-Goldwater Mfg. Co., Los Angeles, Calif., successor. Girls' dresses. 126,829; renewed Oct. 7, 1939.

Columbia Mills, Inc., The, New York, N. Y. Mounted shades, window shades, and shade rollers. 368,380; June 13; Serial No. 416,371; published Apr. 4, 1939. Class 32.

Columbus Dental Manufacturing Co., Columbus, Ohio. Artificial teeth. 368,261–2; June 13; Serial Nos. 413,219–20; published Apr. 4, 1939. Class 44.

Columbus-Union Oil Cloth Co., The, by change of name to Columbus Coated Fabrics Corporation, Columbus, Ohio. Oil-cloth. 125,035; renewed Apr. 8, 1939.

Consolidated Textile Co., Inc., New York, N. Y. Cotton flannel piece goods. 368,272; June 13; Serial No. 413,930; published Apr. 4, 1939. Class 42.

Continental Undergarment Co., Inc., New York, N. Y. Panties, bloomers, step-ins, etc. 368,251; June 13; Serial No. 412,406; published Mar. 28, 1939. Class 39.

Cornell-Lenz Company, San Leandro, Calif. Head supports for goggles. 368,253; June 13; Serial No. 412,697; published Apr. 4, 1939. Class 26.

Corona Foothill Lemon Company, Corona, Calif. Fresh citrus fruit. 368,390; June 13. Class 46.

Cronan, Francis M., Bethesda, Md. Column heading. 368,214; June 13; Serial No. 402,680; published Apr. 12, 1938. Class 38.

Crown Zellerbach Corporation, also doing business as National Paper Products Company, San Francisco, Calif. Toilet tissue. 368,233; June 13; Serial No. 408,457; published Apr. 4, 1939. Class 37.

Crown Zellerbach Corporation, San Francisco, Calif. Wrapping paper. 368,275; June 13; Serial No. 414,054; published Apr. 4, 1939. Class 37.

Curtin, William S., Lynn, Mass. Medicine. 127,019; renewed Oct. 21, 1939.

Dailuaine-Talisker Distilleries Limited, Carron, Scotland. Whisky. 368,375; June 13; Serial No. 416,285; published Apr. 4, 1939. Class 49.

Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Illuminating equipment for motor vehicles, foot-warmers, gas-lamps, etc. 368,208; June 13; Serial No. 399,602; published Jan. 10, 1939. Class 34.

Daniels, Claude H., East Portchester, Conn. Arch supports, foot supports, cushions, and pads for shoes. 368,215; June 13; Serial No. 402,815; published Apr. 4, 1939. Class 44.

D'Aquila, Patrick J., Jersey City, N. J. Potatoes. 368,303; June 13; Serial No. 414,864; published Apr. 4, 1939. Class 46.

De Pinna, A., Co., Inc., New York, N. Y. Dresses and blouses. 368,341; June 13; Serial No. 415,471; published Apr. 4, 1939. Class 39.

De Pree Chemical Company, The, by change of name to The De Pree Company, Holland, Mich. Complexion powder and cream, toilet water, etc. 126,838; renewed Oct. 7, 1939.

Destileria Tropical, Arecibo, P. R. Rum. 368,353; June 13; Serial No. 415,638; published Apr. 4, 1939. Class 49.

Diagrid Structures Limited, London, England. Architectural and structural plans and drawings. 368,252; June 13; Serial No. 412,408; published Mar. 28, 1939. Class 38.

Divelbiss, Edw. H., Hotchkiss, Colo. Fresh deciduous fruits. 368,302; June 13; Serial No. 414,823; published Apr. 4, 1939. Class 46.

Dix, Henery A., & Sons Corporation, New York, N. Y. Dresses and uniforms. 368,268; June 13; Serial No. 413,668; published Mar. 28, 1939. Class 39.

Dodge, H. B., and Company, Chicago, Ill. Venetian blinds. 368,381; June 13; Serial No. 416,458; published Apr. 4, 1939. Class 32.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 368,337; June 13; Serial No. 415,383; published Mar. 28, 1939. Class 12.

Down Beat Publishing Co. Inc., Chicago, Ill. Periodical. 368,301; June 13; Serial No. 414,776; published Mar. 28, 1939. Class 38.

Eastside Distributing Co. (See Los Angeles Brewing Co.)

East Side Winery, Lodi, Calif. Wines. 368,307; June 13; Serial No. 414,946; published Apr. 4, 1939. Class 47.

Edison, Thomas A., Incorporated, West Orange, N. J. Electric lighting outfits. 368,309; June 13; Serial No. 414,985; published Apr. 4, 1939. Class 21.

Edison, Thomas A., Incorporated, West Orange, N. J. Electric lighting outfits. 368,310; June 13; Serial No. 414,987; published Apr. 4, 1939. Class 21.

Enderes Incorporated, Albert Lea, Minn. Punches, solid punches, pin punches, etc. 368,228; June 13; Serial No. 406,849; published Oct. 4, 1938. Class 23.

Epstein, Max, doing business as Kolonade Beverage Co., Richmond Hill, N. J. Maltless beverages, and sirups and extracts for same. 368,347; June 13; Serial No. 415,588; published Apr. 4, 1939. Class 45.

Faber, A. W., Inc., doing business as Johann Faber, Newark, N. J. Lead, crayon, ink, and mechanical pencils. 368,271; June 13; Serial No. 413,902; published Apr. 4, 1939. Class 37.

Fairy Silk Mills, Shillington, Pa. Tricot and milanese fabrics in the piece. 368,258; June 13; Serial No. 413,009; published Apr. 4, 1939. Class 42.

Felger, LeRoy V., Santa Barbara, Calif. Sport coats and trousers and aprons for women and girls. 368,288; June 13; Serial No. 414,515; published Mar. 28, 1939. Class 39.

Fisher Bros. Paper Co. Inc., Fort Wayne, Ind. Matches. 368,304; June 13; Serial No. 414,872; published Apr. 4, 1939. Class 9.

Fizdale, Tom, Inc., Chicago, Ill. Syndicated column. 368,240; June 13; Serial No. 410,730; published Apr. 4, 1939. Class 38.

Floral City Furniture Company, Inc., doing business as La-Z-Boy Chair Company, Monroe, Mich. Chairs and ottomans. 368,382; June 13; Serial No. 416,460; published Apr. 4, 1939. Class 32.

Foote & Jenks, Inc., Jackson, Mich. Maltless beverage and sirup and extract for same. 368,344; June 13; Serial No. 415,543; published Apr. 4, 1939. Class 45.

Franke & Heidecke Fabrik Photographischer Präzisionsapparate, Brunswick, Germany. Lighting apparatus for photographic purposes, objectives, lenses, etc. 368,216; June 13; Serial No. 402,968; published Apr. 4, 1939. Class 26.

Fry-Fyter Company, The. (See Selig Company, Inc., The.)

Furst, Alex, Peoria, Ill. Cheese. 368,218; June 13; Serial No. 404,436; published Apr. 4, 1939. Class 46.

Gale-Rosenbaum Company, St. Louis, Mo. Wearing apparel. 368,289; June 13; Serial No. 414,523; published Mar. 28, 1939. Class 39.

Gemological Institute of America, Los Angeles, Calif. Illuminating apparatus for disclosing defects of precious stones. 368,237; June 13; Serial No. 410,056; published Apr. 4, 1939. Class 26.

General Brewing Corporation, San Francisco, Calif. Beer and ale. 368,318; June 13; Serial No. 415,079; published Apr. 4, 1939. Class 48.

General Brewing Corporation, San Francisco, Calif. Ber. 368,319; June 13; Serial No. 415,080; published Apr. 4, 1939. Class 48.

Gittleman, Benjamin, doing business as Lincoln Lace and Braid Company and Thompson Chemical Company, Cranston, R. I. Self shine liquid floor wax, furniture polish, etc. 368,204; June 13; Serial No. 398,041; published Apr. 4, 1939. Class 16.

Glassite Company, The. (See Thomsen, Grover C.)

Goodall Worsted Co. (See Lesher, Whitman & Co.)

Good Humor Corporation of America, Brooklyn, N. Y. Frozen confections. 368,243; June 13; Serial No. 411,352; published Apr. 4, 1939. Class 46.

Gould's, Inc., Minneapolis, Minn. Women's fur coats, jackets, scarfs, etc. 368,200; June 13; Serial No. 381,391; published Apr. 4, 1939. Class 39.

Graham Paper Company, St. Louis, Mo. Boxed paper for printing and writing. 368,320; June 13; Serial No. 415,117; published Apr. 4, 1939. Class 37.

Gray, Dorothy, Salons, Bloomfield, N. J. Face powder. 368,224; June 13; Serial No. 405,782; published July 12, 1939. Class 6.

Grossman, I., & Son, Inc., New York, N. Y. Women's and misses' coats and suits. 368,342; June 13; Serial No. 415,476; published Apr. 4, 1939. Class 39.

Hackney's Sea Food Products, Inc., also doing business as Hackney's Restaurants, Atlantic City, N. J. Canned foods. 368,259; June 13; Serial No. 413,123; published Apr. 4, 1939. Class 46.

Hairc Publishing Company, New York, N. Y. Periodical. 368,359; June 13; Serial No. 415,714; published Apr. 4, 1939. Class 38.

Halpen, J., Company, Pittsburgh, Pa. Fireworks. 368,311; June 13; Serial No. 414,994; published Apr. 4, 1939. Class 9.

Hammes, John W., doing business as In-Sink-Erator Company, Racine, Wis. Kitchen garbage cutters. 368,264; June 13; Serial No. 413,344; published Apr. 4, 1939. Class 21.

Hammond, G. H., Company, The, assignor to Libby McNeill & Libby, Chicago, Ill. Canned peaches, plums, apricots, and pineapples. 126,286; renewed Aug. 19, 1939.

Harlingen Canning Company, Harlingen, Tex. Canned vegetables. 368,250; June 13; Serial No. 412,296; published Apr. 4, 1939. Class 46.

Hearst Sunical Land and Packing Corporation, San Francisco, Calif. Canned fruit juices. 368,210; June 13; Serial No. 401,845; published June 21, 1938. Class 46.

Hearst Sunical Land and Packing Corporation, San Francisco, Calif. Canned fruit juices. 368,223; June 13; Serial No. 405,751; published Oct. 18, 1938. Class 46.

Hendryx, Andrew B., Company, The, New Haven, Conn. Bird cages. 368,312; June 13; Serial No. 414,996; published Apr. 4, 1939. Class 2.

Higginsville Flour Mill. (See Stout, Charles B.)

Holter, A. M., Hardware Co., Helena, Mont. Fishing tackle and trout flies. 368,354; June 13; Serial No. 415,650; published Apr. 4, 1939. Class 22.

Huyler's, New York, N. Y. Candy. 368,230; June 13; Serial No. 407,948; published Apr. 4, 1939. Class 46.

In-Sink-Erator Company. (See Hammes, John W.)

Italian Swiss Colony, San Francisco, Calif. Wines. 368,277; June 13; Serial No. 414,193; published Apr. 4, 1939. Class 47.

Italian Swiss Colony, San Francisco, Calif. Brandy. 368,383; June 13; Serial No. 416,464; published Apr. 4, 1939. Class 49.

Johnson's, James Sons, Philadelphia, Pa. Canned fruits, vegetables, soups, etc. 368,385; June 13. Class 46.

Kaffer, E. L., doing business as Q Company, Joliet, Ill. Macaroni. 368,366; June 13; Serial No. 415,845; published Apr. 4, 1939. Class 46.

Kensington, Incorporated, New Kensington, Pa. Inkstands, pen and inkstands, desk sets, etc. 368,198; June 13; Serial No. 374,195; published Apr. 4, 1939. Class 37.

Kent, Roger, Inc., New York, N. Y.; New Haven, Conn.; and Cambridge, Mass. Men's clothing. 368,321; June 13; Serial No. 415,123; published Mar. 28, 1939. Class 39.

Kilgore Mfg. Company, The, Westerville, Ohio. Nail file receptacles, tumblers, cups, etc. 368,229; June 13; Serial No. 407,866; published Apr. 4, 1939. Class 2.

King Kone Corporation, New York, N. Y. Crackers. 368,392; June 13. Class 46.

Kolonade Beverage Co. (See Epstein, Max.)

Lactona, Incorporated, St. Paul, Minn. Devices for oral hygiene. 368,316; June 13; Serial No. 415,044; published Apr. 4, 1939. Class 29.

Langley's, Inc., New York, N. Y. Men's outer shirts. 368,331; June 13; Serial No. 415,221; published Apr. 4, 1939. Class 39.

La-Z-Boy Chair Company. (See Floral City Furniture Company, Inc.)

Leroux and Company, Inc., Philadelphia, Pa. Anisette, cocktail bitters, brandy, etc. 368,399; June 13. Class 49.

Leroux and Company, Inc., Philadelphia, Pa. Brandy, rum, anisette, etc. 368,400; June 13. Class 49.

Lesher, Whitman & Co., Inc., New York, N. Y., to Goodal Worsted Co., Sanford, Maine, successor. Piece goods. 126,308; renewed Aug. 19, 1939.

Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Topcoats and overcoats. 368,211; June 13; Serial No. 401,938; published Apr. 4, 1939. Class 39.

Libby McNeil & Libby. (See Hammond, G. H., Company, The, assignor.)

Lincoln Lace and Braid Company. (See Gittleman, Benjamin.)

Linco Products Corporation, Chicago, Ill. Cleanser. 368,280; June 13; Serial No. 414,356; published Apr. 4, 1939. Class 4.

Loeser, Julius, Company, Inc., Chicago, Ill. Scotch type whiskey. 368,238; June 13; Serial No. 410,434; published Nov. 22, 1938. Class 49.

Los Angeles Brewing Co., also doing business as Eastside Distributing Co., Los Angeles, Calif. Beer. 368,249; June 13; Serial No. 412,263; published Apr. 4, 1939. Class 48.

Loudonville Mill & Grain Co., The, assignor to The Loudonville Milling Company, Loudonville, Ohio. Wheat-flour. 127,196; renewed Oct. 21, 1939.

Lubri-Zol Corporation, The Wickliffe, Ohio. Lubricating oils and greases, etc. 368,325; June 13; Serial No. 415,168; published Mar. 28, 1939. Class 15.

Lubrx Products, Inc., Boston, Mass. Lubricating oil. 368,371; June 13; Serial No. 416,069; published Mar. 28, 1939. Class 15.

Lucerne Cream and Butter Company, The, also doing business as Lucerne Cream and Butter Co., Vernon, Calif. Ice cream and sherbet. 368,355; June 13; Serial No. 415,657; published Apr. 4, 1939. Class 46.

Malmia Brothers, Gary, Ind. Cleaning compound. 368,231; June 13; Serial No. 408,067; published Apr. 4, 1939. Class 4.

Margate Hosiery Mills, Inc. (See Nick-A-Jack Hosiery Mills.)

Markesan Canning Co., The, Markesan, Wis. Canned peas. 368,363–4; June 13; Serial Nos. 415,785–6; published Apr. 4, 1939. Class 46.

Mayer, Oscar, & Company, Chicago, Ill. Meats and meat products. 368,232; June 13; Serial No. 408,351; published Apr. 4, 1939. Class 46.

Mayer, Oscar, & Company, Chicago, Ill. Bacon, meat loaf, liver loaf, etc. 368,246; June 13; Serial No. 411,787; published Apr. 4, 1939. Class 46.

McMullen-Leavens Company, Inc., New York, N. Y. Ladies' blouses, shorts, sports dresses, etc. 368,326; June 13; Serial No. 415,170; published Apr. 4, 1939. Class 39.

McNaught Syndicate, Inc., The, New York, N. Y. Newspaper column. 368,222; June 13; Serial No. 405,076; published Mar. 28, 1939. Class 38.

Medomak Canning Company, Rockland, Maine. Canned squash, pumpkin, and mince-meat. 368,213; June 13; Serial No. 402,483; published Apr. 4, 1939. Class 46.

Metcalf Neckwear Company, The, Cleveland, Ohio. Neckties. 368,266; June 13; Serial No. 413,451; published Mar. 28, 1939. Class 39.

Mid City Wholesale Grocers, Cicero, Ill. Dog Food. 368,317; June 13; Serial No. 415,050; published Apr. 4, 1939. Class 46.

Miller & Hollis, Inc., Boston, Mass. Chocolates. 368,327; June 13; Serial No. 415,173; published Apr. 4, 1939. Class 46.

Miller & Hollis, Inc., Boston, Mass. Chocolates. 368,395; June 13. Class 46.

Moreland Motor Truck Company, Los Angeles, Calif. Motor-trucks and automobile-trailers. 127,451; renewed Nov. 11, 1939.

Morris, Philip, & Co., Ltd. Incorporated, New York, N. Y. Pipe tobacco. 368,260; June 13; Serial No. 413,139; published Apr. 4, 1939. Class 17.

Mountain City Mill Co., doing business as Chattanooga Bakery, Chattanooga, Tenn. Oyster crackers. 368,209; June 13; Serial No. 401,502; published Apr. 4, 1939. Class 46.

Myers, R. A., & Company, St. Paul, Minn. Floor wax. 368,225; June 13; Serial No. 406,027; published Apr. 4, 1939. Class 16.

Nation Wide Papers, Inc., Chicago, Ill. Writing and printing paper. 368,206; June 13; Serial No. 399,314; published Apr. 4, 1939. Class 37.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 127,291; renewed Nov. 4, 1939.

National Biscuit Company, New York, N. Y. Bakery products. 368,348; June 13; Serial No. 415,605; published Apr. 4, 1939. Class 46.

National Die Casting Sales Corp., Chicago, Ill. Fruit juice extractors. 368,212; June 13; Serial No. 402,196; published Apr. 4, 1939. Class 23.

National Engineering Products, Inc., Washington, D. C. Refractory and insulating cement. 368,368; June 13; Serial No. 415,910; published Mar. 28, 1939. Class 12.

National Fabrics Corporation, New York, N. Y. Piece goods. 368,205; June 13; Serial No. 398,122; published Sept. 6, 1938. Class 42.

National Filter Corporation, New York, N. Y. Filter mass. 368,378; June 13; Serial No. 416,332; published Apr. 4, 1939. Class 31.

National Paper Products Company. (See Crown Zellerbach Corporation.)

Nick-A-Jack Hosiery Mills, to Margate Hosiery Mills, Inc., Chattanooga, Tenn., successor. Hosiery. 127,460; renewed Nov. 11, 1939.

Nutex Company, The, Philadelphia, Pa. Prophylactic skin membrane articles. 368,396; June 13. Class 44.

Oberman & Company, Jefferson City, Mo. Outer shirts, pants, and jackets. 368,201; June 13; Serial No. 388,365; published Apr. 4, 1939. Class 39.

Oil Well Manufacturing Corporation, Los Angeles, Calif. Steel rotary hose, rotary hose couplings, etc. 368,278–9; June 13; Serial Nos. 414,234–5; published Apr. 4, 1939. Class 13.

Okonite Company, The, Passaic, N. J. Insulated wires and cables. 368,349; June 13; Serial No. 415,607; published Apr. 4, 1939. Class 21.

Pacific Union Association of Seventh Day Adventists, The, Glendale, Calif. Scripts for a series of broadcasts. 368,245; June 13; Serial No. 411,704; published Apr. 4, 1939. Class 38.

Parodi Cigar Company of New York, Inc., Scanton, Pa. Smoking tobacco. 368,283; June 13; Serial No. 414,408; published Apr. 4, 1939. Class 17.

Peck, Stow & Wilcox Company, The, Southington, Conn. Braces, bits, snips, pliers, etc. 368,203; June 13; Serial No. 396,830; published Apr. 4, 1939. Class 23.

Peltzman, Morris, Company, Inc., New York, N. Y. Women's and misses' coats and suits. 368,298; June 13; Serial No. 414,754; published Apr. 4, 1939. Class 39.

Pennell, Frank W., New York, N. Y. Periodicals. 368,360; June 13; Serial No. 415,737; published Apr. 4, 1939. Class 38.

Philadelphia Storage Battery Company, Philadelphia, Pa. Radio tubes and sockets. 368,286; June 13; Serial No. 414,468; published Apr. 4, 1939. Class 21.

Pinner, Henry McR., doing business as Pinner & Co., Suffolk, Va. Watermelons. 368,236; June 13; Serial No. 409,653; published Apr. 4, 1939. Class 46.

Pratt, Elbert H., doing business as Accessories Manufacturing Company, Chicago, Ill. Wire clips used on electric fences. 368,398; June 13. Class 21.

Prospect Mills Corp., Cambridge, Mass. Leather substitutes. 368,350; June 13; Serial No. 415,610; published Apr. 4, 1939. Class 50.

Q Company. (See Kaffer, E. L.)

Reed, Frank S., Cincinnati, Ohio. Closet flush valve balls. 368,389; June 13. Class 13.

Richardson, Lloyd E., also doing business as Sun-Spot Products Co., St. Joseph, Mo. Barbecue sauce, horseradish, spices, etc. 368,269; June 13; Serial No. 413,738; published Apr. 4, 1939. Class 46.

Rimington Publishing Co., Inc., New York, N. Y. Periodical. 368,332; June 13; Serial No. 415,260; published Apr. 4, 1939. Class 38.

Roman, Paul, New York, N. Y. Portable electrical control device. 368,274; June 13; Serial No. 414,002; published Apr. 4, 1939. Class 21.

Rubber Specialties Company, Inc., Plymouth Meeting, Pa. Golf balls. 368,376; June 13; Serial No. 416,295; published Apr. 4, 1939. Class 22.

Rutherford Co. Creamery Assn., to Rutherford County Co-operative Creamery, Inc., Murfreesboro, Tenn., successor. Creamery-butter. 126,474; renewed Aug. 26, 1939.

Safeway Stores, Inc., Vernon and Oakland, Calif. Beverages and syrups and extracts for same. 368,369; June 13; Serial No. 415,915; published Apr. 4, 1939. Class 45.

Sandy Valley Grocery Company, Ashland, Ky. Coffee. 367,377; June 13; Serial No. 416,298; published Apr. 4, 1939. Class 46.

Schieren, Chas. A., Company, New York, N. Y. Tobacco humidors, cigarette and cigar boxes. 368,276; June 13; Serial No. 414,116; published Apr. 4, 1939. Class 8.
Schollhorn, William, Company, The, New Haven, Conn. Pliers, nippers, wire-cutters, etc. 127,553; renewed Nov. 11, 1939.
Schwartz, B., & Co., Philadelphia, Pa. Boys' lumber jackets, knickers, shorts, etc. 368,299; June 13; Serial No. 414,755; published Apr. 4, 1939. Class 39.
Scovill Manufacturing Company, Waterbury, Conn. Garden hose couplings. 368,322–4; June 13; Serial Nos. 415,141–3; published Apr. 4, 1939. Class 13.
Sears, Roebuck and Co., Chicago, Ill. Shoes for boys. 368,328; June 13; Serial No. 415,190; published Apr. 4, 1939. Class 39.
Sebastian Stuart Fish Co., Seattle, Wash. Canned fish. 368,241; June 13; Serial No. 410,931; published Apr. 4, 1939. Class 46.
Sebastian Stuart Fish Co., Seattle, Wash. Canned tuna fish. 368,270; June 13; Serial No. 413,841; published Apr. 4, 1939. Class 46.
Selig Company, Inc., The, Atlanta, Ga., assignor to The Fry-Eyter Company, Dayton, Ohio. Insecticides. 368,384; June 13; Serial No. 412,269; published Dec. 27, 1938. Class 6.
"Set-Mor" Garment Co. Inc., St. Louis, Mo. Lingerie. 368,291; June 13; Serial No. 414,580; published Apr. 4, 1939. Class 39.
Shaw, D. Minard, New York, N. Y. Forms in various sizes for blocking sweaters, etc. 368,263; June 13; Serial No. 413,321; published Apr. 4, 1939. Class 50.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Pen nibs. 368,196; June 13; Serial No. 316,385; published May 16, 1933. Class 37.
Sherwin-Williams Co., The, Cleveland, Ohio. Preparation used for preparing surfaces for refinishing. 368,287; June 13; Serial No. 414,512; published Apr. 4, 1939. Class 16.
Shoe Form Co., Inc., Auburn, N. Y. Fish bait. 368,361; June 13; Serial No. 415,743; published Apr. 4, 1939; Class 22.
Shoe Form Co., Inc., Auburn, N. Y. Fish bait. 368,362; June 13; Serial No. 415,746; published Apr. 4, 1939. Class 22.
Shoe Form Co., Inc., Auburn, N. Y. Fish bait. 368,379; June 13; Serial No. 416,344; published Apr. 4, 1939. Class 22.
Sinclair, John, Limited, Newcastle-on-Tyne, England. Smoking tobacco and cigarettes. 368,394; June 13. Class 17.
Siskind Tailoring Co., Inc., New York, N. Y. Men's suits and overcoats. 368,254; June 13. Serial No. 412,736; published Mar. 28, 1939. Class 39.
Solo Products Company, Chicago, Ill. Canned and dried mushrooms. 368,315; June 13; Serial No. 415,023; published Apr. 4, 1939. Class 46.
Southern Kraft Corporation, New York, N. Y. Wrapping paper and kraft paper. 368,197; June 13; Serial No. 370,901; published Apr. 4, 1939. Class 37.
Southern Kraft Corporation, New York, N. Y. M. G. tissue and wrapping paper. 368,295; June 13; Serial No. 370,898; published Apr. 4, 1939. Class 37.
Southern Kraft Corporation, New York, N. Y. M. G. tissue and wrapping paper. 368,296; June 13; Serial No. 370,900; published Apr. 4, 1939. Class 37.
Southwestern Petroleum Company, Inc., Fort Worth, Tex. Asbestos roof coating, and asbestos plastic cement. 368,370; June 13; Serial No. 415,921; published Mar. 28, 1939. Class 12.
Spector, Herbert G., Philadelphia, Pa. Suits and overcoats. 368,281; June 13; Serial No. 414,376; published Mar. 28, 1939. Class 39.
Standard Brands Incorporated, New York, N. Y. Coffee. 368,221; June 13; Serial No. 404,820; published Apr. 4, 1939. Class 46.
Standard Oil Development Company, Linden, N. J. Rubber substitute. 368,305; June 13; Serial No. 414,903; published Apr. 4, 1939. Class 1.
Stevenson's Moygashel Linens, Limited, New York, N. Y. Linen piece goods. 368,333; June 13; Serial No. 415,269; published Apr. 4, 1939. Class 42.
Stewart-Warner Corporation, Chicago, Ill. Speedometers. 368,207; June 13; Serial No. 399,484; published Apr. 4, 1939. Class 26.
Stout, Charles B., doing business as Higginsville Flour Mill, Memphis, Tenn. Wheat flour. 368,244; June 13; Serial No. 411,554; published Mar. 28, 1939. Class 46.
Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 368,294; June 13; Serial No. 414,671; published Apr. 4, 1939. Class 37.
Sudox Chemical Company, Inc., Louisville, Ky. Compounds for use in dry cleaning purposes. 368,345; June 13; Serial No. 415,562; published Apr. 4, 1939. Class 4.
Sun-Spot Products Co. (See Richardson, Lloyd E.)
Swiss Fabric Group, New York, N. Y. Textile fabrics in the piece. 368,308; June 13; Serial No. 414,970; published Apr. 4, 1939. Class 42.
Thomsen, Grover C., doing business as The Glassite Company, Waco, Tex. Beverages, and syrups for preparation thereof. 368,365; June 13; Serial No. 415,807; published Apr. 4, 1939. Class 45.
Thompson Chemical Company. (See Gittleman, Benjamin.)
Toga Press Inc., The, Washington, D. C. Magazine. 368,334; June 13; Serial No. 415,271; published Apr. 4, 1939. Class 38.
Toledo Scale Manufacturing Company, Toledo, Ohio. Weighing scales. 368,234; June 13; Serial No. 408,975; published Apr. 4, 1939. Class 26.
Topics Publishing Company, Inc., The, New York, N. Y. Publication. 368,300; June 13; Serial No. 414,759; published Mar. 14, 1939. Class 38.
Trade Mark Protectors. (See Aitken, Beekman.)
Trafico Parking Meter Co., Miami, Fla. Parking meters. 368,292; June 13; Serial No. 414,582; published Apr. 4, 1939. Class 26.
Transportation Guides, Inc., New York, N. Y. Periodical publication. 368,346; June 13; Serial No. 415,563; published Apr. 4, 1939. Class 38.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 368,217; June 13; Serial No. 403,740; published Apr. 4, 1939. Class 22.
United States Rubber Products, Inc., assignor to United States Rubber Company, New York, N. Y. Sheathed electrical cable. 368,219; June 13; Serial No. 404,669; published Apr. 4, 1939. Class 21.
United Wire & Supply Corporation, Cranston, R. I. Metal tubing. 368,226; June 13; Serial No. 406,107; published Apr. 4, 1939. Class 13.
Venetianette, Inc., Dallas, Tex. Venetian blinds for motor vehicles. 368,388; June 13. Class 19.
Vernon, S. E., & M., Inc., New York, N. Y. Composition books, loose leaf fillers, and binders. 368,351; June 13; Serial No. 415,615; published Apr. 4, 1939. Class 37.
Vibroplex Company, The, Inc., New York, N. Y. Telegraphic sending machines. 368,335; June 13; Serial No. 415,275; published Apr. 4, 1939. Class 21.
Walker, H. O., Phoenix, Ariz. Game. 368,257; June 13; Serial No. 412,989; published Apr. 4, 1939. Class 22.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Benches, desks, chests, etc. 368,313; June 13; Serial No. 415,017; published Apr. 4, 1939. Class 32.
Wentworth & Irwin, Inc., Portland, Oreg. Automobile buses. 368,314; June 13; Serial No. 415,020; published Apr. 4, 1939. Class 19.
Western Cataphote Corporation, Toledo, Ohio. Mechanical signs and parts therefor. 368,247; June 13; Serial No. 411,924; published Apr. 4, 1939. Class 50.
Western Shade Cloth Co., The, Chicago, Ill. Window shades and rollers. 368,373; June 13; Serial No. 416,274; published Apr. 4, 1939. Class 32.
Western Shade Cloth Co., The, Chicago, Ill. Window shades and rollers. 368,374; June 13; Serial No. 416,277; published Apr. 4, 1939. Class 32.
Weston, Duncan, & Company Limited, London, England. Whisky. 368,267; June 13; Serial No. 413,526; published Apr. 4, 1939. Class 49.
Westwood Pharmacal Corp., Buffalo, N. Y. Diuretic medicinal preparation. 368,372; June 13; Serial No. 416,127; published Apr. 4, 1939. Class 6.
White, Henry, & Co., to White Keeling (Rum) Ltd., London, England, successor. Rum. 16,486; Re-renewed Apr. 9, 1939.
Whitman, William, Company, Inc., Boston, Mass. Piece goods. 366,397; June 13. Class 42.
Wilfley, A. R., and Sons, Inc., Denver, Colo. Centrifugal pumps. 368,386–7; June 13. Class 23.
Wilson, Kirke R., Buffalo, N. Y. Gas space heaters. 368,273; June 13; Serial No. 413,964; published Apr. 4, 1939. Class 34.
Wing, Sam A., Company, The, Dallas, Tex. Venetian blinds. 368,340; June 13; Serial No. 415,466; published Apr. 4, 1939. Class 32.
Winters, Myron, New York, N. Y. Mixture of chemical detergents for cleaning glasses and dishes. 368,391; June 13. Class 4.
Yarick, Floyd D., Detroit, Mich. Stokers. 368,338; June 13; Serial No. 415,432; published Apr. 4, 1939. Class 34.

LIST OF REGISTRANTS OF LABELS

Allen Chemical Co. Inc., New York, N. Y. Relaxation a Safe Corn and Callus Remover. For a Pharmaceutical Preparation for the Removal of Corns and Calluses. 53,125; June 13.
Banner Wholesale Grocers, Inc., Chicago, Ill. Sincerity. For Sugar Corn. 53,126; June 13.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Tomato Juice. For Tomato Juice. 53,127; June 13.
Bowser Sales & Trading Corporation, Inc., doing business as Valley Creamery Company, Sistersville and New Martinsville, W. Va. Valley Farms Butter. For Creamery Butter. 53,128; June 13.
Bunnell & Campbell, Detroit Lakes, Minn. Lindy Julep. For a Non-Alcoholic Beverage. 53,129; June 13.
Camillus Cutlery Co., Camillus and New York, N. Y. Official New York World's Fair Souvenir. For Knives. 53,130; June 13.

Campus Candy Co. (See Marks, Allen.)
Cannon, Kenneth B., doing business as Vegetable Soap Products Co., Los Angeles, Calif. Holt Lin-Flake. For Soap Flakes. 53,131; June 13.
D. L. & W. Coal Co. (See Delaware, Lackawanna & Western Coal Company, The.)
Delaware, Lackawanna & Western Coal Company, The, doing business as D. L. & W. Coal Co., New York, N. Y. Blue Coal. For Water Heaters. 53,132; June 13.
Ericson, John H., Hammond, Ind. John H. Ericson, Violin Maker. For Hand Made Violins, Violas and Cellos. 53,133; June 13.
Famous Products Company. (See Neumann, Morton G.)
Fibreware Company, Franklin, Ohio. Cherry. For Pies. 53,134; June 13.
Fibreware Company, Franklin, Ohio. Banana Cream. For Pies. 53,135; June 13.
Finkelstein, Samuel, doing business as The Master Toy Co., New York, N. Y. One-Two Button Your Shoe. For a Game. 53,136; June 13.
Frantz, Charton C., doing business as The Frantz Company, Pittsburgh, Pa. This Bread Contains Vitamins A B1 C D E G Made from Frantz 101. For Bread. 53,137; June 13.
Gerst, William, Brewing Company, Inc., Nashville, Tenn. Gerst Pilsner Beer. For Pilsner Beer. 53,138; June 13.
Giaianella, Cesare, Bloomfield, N. J. Dante Italo-American Cigarettes. For Cigarettes. 53,139; June 13.
Greco, Anthony. (See Schlachet, Abe, and Anthony Greco.)
Hyde Park Breweries Association, Inc., St. Louis, Mo. Hyde Parke True Lager Beer. For Lager Beer. 53,140; June 13.
Hygeia Milk Products Company, Harlingen, Tex. Hygeia Fancy Butter. For Butter. 53,141; June 13.
Lampl, Walter, doing business as Lampl, New Yok, N. Y. "Tomorrow's Heirloom—'The Theme Charm'". For Charms. 53,142; June 13.
Los Angeles Brewing Co., Los Angeles, Calif. Luxury. For Extra Dry Pilsner Beer. 53,143; June 13.
Marks, Allen, doing business as Campus Candy Co., Los Angeles, Calif. The Campus. For Candy. 53,144; June 13.
Master Toy Co., The. (See Finkelstein, Samuel.)
Mestrand, Arthur C., Asnieres, France. Champagne Grape Salts. For an Effervescent Fruit Laxative. 53,145; June 13.
Meyer, Frank C., Co. Inc., New York, N. Y. Foot Wear. For Footwear. 53,146; June 13.
Meyer, Frank C., Co. Inc., New York, N. Y. Valu-Craft. For Footwear. 53,147; June 13.
Neumann, Morton G., doing business as Famous Poducts Company, Chicago, Ill. Lucky Mo-Jo Brand Candles. For Candles. 53,148; June 13.
Osborn Paper Company, Marion, Ind. The Double Q. For Composition Books. 53,149; June 13.
Osborn Paper Company, Marion, Ind. Royal. For Composition Books. 53,150; June 13.
Reinfeld, Joseph H., Inc., Newark, N. J. Huck Finn. For Apple Jack Brandy. 53,151; June 13.
Schlachet, Abe, and Anthony Greco, Cleveland, Ohio. La Morra Ivory Tip Cigars. For Cigars. 53,152; June 13.
Selected Food Specialties Co., San Francisco, Calif. Patrons' Choice. For Peeled Nectarines. 53,153; June 13.
Valley Creamery Company. (See Bowser Sales & Trading Corporation, Inc.)
Vegetable Soap Products Co. (See Cannon, Kenneth B.)

LIST OF REGISTRANTS OF PRINTS

Ferry-Morse Seed Co., Detroit, Mich. Vegetable Garden Ideas with Ferry's Seeds. For Seeds. 17,440; June 13.
Lowe, Joe, Corporation, New York, N. Y. Us Kids Love our Favorite Ice Cream on-a-Stick. For Ice Cream Confections on a Stick Coated with Chocolate. 17,441; June 13.
Lowe, Joe, Corporation, New York, N. Y. New Big Cakesicle. For Combination Ice Cream and Cake Confection on a Stick. 17,442; June 13.
Lowe, Joe, Corporation, New York, N. Y. Gee Gang! Try Popsicle Jr. a Real Genuine Popsicle 3¢. For Frozen Confections on a Stick. 17,443; June 13.
Lowe, Joe, Corporation, New York, N. Y. Big Double Treat, Buck Rogers on the Radio, Fine Outside—Dandy Inside, 5¢ Creamsicle, Deliciously Coated Ice Cream. For Frozen Confections on a Stick Made of Ice Cream Deliciously Coated. 17,444; June 13.
Lowe, Joe, Corporation, New York, N. Y. Popsicle Pete the Summer Santa Clause, Popsicle—Fudgicle Creamsicle. For Frozen Confections on a Stick. 17,445; June 13.
Lowe, Joe, Corporation, New York, N. Y. Popsicle Fudgicle Creamsicle Save Bags for Free Gifts. Genuine Jo-Lo Frozen Confections on a Stick. For Frozen Confections on a Stick. 17,446; June 13.
Lowe, Joe, Corporation, New York, N. Y. Buck Rogers on the Air this Summer! For Creamsicle Genuine Jo-Lo Frozen Confections on a Stick. For Frozen Confections on a Stick. 17,447; June 13.
McKesson & Robbins, Incorporated, Debtor, Trustee of the estate of. (See Wardall, William J.)
Morrell, John, & Co., Ottumwa, Iowa. Mr. Ham Goes to Town. For Meat. 17,448; June 13.
Mylov Novelty Manufacturing Company. (See Rosenberg, Al.)
Reynolds, R. J., Tobacco Company, The, Winston-Salem, N. C. Camel E–26. For Cigarettes. 17,449; June 13.
Rosenberg, Al, doing business as Mylov Novelty Manufacturing Company, Long Island City, N. Y. Horncraft. For Ashtrays, Horns, Pendant Flower Vases and Other Products made of Animal Horns. 17,450; June 13.
Transparent Package Company, Chicago, Ill. Bacon and—Most Anything for Dinner Today. For Bacon. 17,451; June 13.
Transparent Package Company, Chicago, Ill. Gentlemen Prefer—Beef Pot Pie. For Beef. 17,452; June 13.
Transparent Package Company, Chicago, Ill. Mm! Mm! Mammy-Fried Chicken for Dinner Today. For Chicken. 17,453; June 13.
United Paperboard Company, Inc., New York, Lockport and Thomson Victory Mills, N. Y., Benton Falls, Maine, and Urbana, Ohio. Tak-It. For Boxes, Cartons, and Folders. 17,454; June 13.
Wardall, William J., trustee of the estate of McKesson & Robbins, Incorporated, debtor, New York, N. Y. McKesson's Men's Set. For Men's Gift Package Containing Cosmetics for Men. 17,455; June 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Rubber substitute. Standard Oil Development Company. 368,305; June 13; Serial No. 414,903; published Apr. 4, 1939.

CLASS 2

Cages, Bird. Andrew B. Hendryx Company. 368,312; June 13. Serial No. 414,996; published Apr. 4, 1939.
Cups, candy cups, eclair cases, etc., Paper. American Lace Paper Company. 368,242; June 13; Serial No. 411,327; published Dec. 6, 1938.
Receptacles, tumblers, cups, etc., Nail file. Kilgore Mfg. Company. 368,229; June 13; Serial No. 407,866; published Apr. 4, 1939.

CLASS 4

Cleaning compound. Mahala Brothers. 368,231; June 13; Serial No. 408,067; published Apr. 4, 1939.
Cleanser. Linco Products Corporation. 368,280; June 13; Serial No. 414,356; published Apr. 4, 1939.
Compound for use in dry cleaning purposes. Sudox Chemical Company. 368,345; June 13; Serial No. 415,562; published Apr. 4, 1939.
Mixture of chemical detergents for cleaning glasses and dishes. M. Winters. 368,391; June 13.
Soap and shaving cream, Hand. Bullock's Inc. 368,202; June 13; Serial No. 390,686; published Apr. 4, 1939.

CLASS 6

Diuretic medicinal preparation. Westwood Pharmacal Corp. 368,372; June 13; Serial No. 416,127; published Apr. 4, 1939.
Insecticides. Selig Company. 368,384; June 13; Serial No. 412,269; published Dec. 27, 1938.
Medicine. W. S. Curtin. 127,019; renewed Oct. 21, 1939.
Powder and cream, toilet water, etc., Complexion. De Pree Chemical Company. 126,838; renewed Oct. 7, 1939.
Powder, Face. Dorothy Gray Solons. 368,224; June 13; Serial No. 405,782; published July 12, 1938.

CLASS 8

Humidors, cigarette and cigar boxes, Tobacco. Chas. A. Schieren Company. 368,276; June 13; Serial No. 414,116; published Apr. 4, 1939.

CLASS 9

Fireworks. J. Halpern Company. 368,311; June 13; Serial No. 414,994; published Apr. 4, 1939.
Matches. Fisher Bros. Paper Co. Inc. 368,304; June 13; Serial No. 414,872; published Apr. 4, 1939.

CLASS 11

Inking ribbons. Burroughs Adding Machine Company. 368,330; June 13; Serial No. 415,210; published Apr. 4. 1939.

CLASS 12

Cement, Refractory and insulating. National Engineering Products, Inc. 368,368; June 13; Serial No. 415,910; published Mar. 28, 1939.
Insulating fiber board. Armstrong Cork Company. 368,336; June 13; Serial No. 415,280; published Mar. 28, 1939.
Lime. Adhesive Lime Limited. 368,367; June 13; Serial No. 415,869; published Mar. 28, 1939.
Plywood. Douglas Fir Plywood Association. 368,337; June 13; Serial No. 415,383; published Mar. 28, 1939.
Roof coating, and asbestos plastic cement, Asbestos. Southwestern Petroleum Company. 368,370; June 13; Serial No. 415,921; published Mar. 28, 1939.

CLASS 13

Couplings, Garden hose. Scovill Manufacturing Company. 368,322–4; June 13; Serial Nos. 415,141–3; published Apr. 4, 1939.
Hose, rotary hose couplings, etc., Steel rotary. Oil Well Manufacturing Corporation. 368,278–9; June 13; Serial Nos. 414,234–5; published Apr. 4, 1939.
Tubing, Metal. United Wire & Supply Corporation. 368,226; June 13; Serial No. 406,107; published Apr. 4. 1939.
Valve balls, Closet flush. F. S. Reed. 368,389; June 13.

CLASS 15

Oil, Lubricating. Lubrx Products, Inc. 368,371; June 13; Serial No. 416,069; published Mar. 28, 1939.
Oils and greases, etc., Lubricating. Lubri-Zol Corporation. 368,325; June 13; Serial No. 415,168; published Mar. 28, 1939.

CLASS 16

Preparation used for preparing surfaces for refinishing. Sherwin-Williams Co. 368,287; June 13; Serial No. 414,512; published Apr. 4, 1939.
Wax, Floor. R. A. Myers & Company. 368,225; June 13; Serial No. 406,027; published Apr. 4, 1939.
Wax, furniture polish, etc., Self shine liquid floor. B. Gittleman. 368,204; June 13; Serial No. 398,041; published Apr. 4, 1939.

CLASS 17

Tobacco and cigarettes, Pipe. Chicago Tobacco Co. 368,265; June 13; Serial No. 413,434; published Apr. 4, 1939.
Tobacco and cigarettes, Smoking. John Sinclair Limited. 368,394; June 13.
Tobacco, Pipe. Philip Morris & Co. Ltd. Incorporated. 368,260; June 13; Serial No. 413,139; published Apr. 4, 1939.
Tobacco, Smoking. Parodi Cigar Company of New York, Inc. 368,283; June 13; Serial No. 414,408; published Apr. 4, 1939.

CLASS 19

Automobile buses. Wentworth & Irwin, Inc. 368,314; June 13; Serial No. 415,020; published Apr. 4, 1939.
Blinds for motor vehicles, Venetian. Venetianette, Inc. 368,388; June 13.
Trucks and automobile-trailers, Motor. Moreland Motor Truck Company. 127,451; renewed Nov. 11, 1939.
Vehicle parts. Brewer-Titchener Corporation. 127,337; renewed Nov. 11 1939.

CLASS 20

Oil-cloth. Columbus-Union Oil Cloth Co. 125,035; renewed Apr. 8 1939.

CLASS 21

Cable, Sheathed electrical. United States Rubber Products, Inc. 368,219; June 13; Serial No. 404,669; published Apr. 4, 1939.
Clips used on electric fences, Wire. E. H. Pratt. 368,398; June 13.
Cutters, Electrically operated garbage. J. W. Hammes. 368,264; June 13; Serial No. 413,344; published Apr. 4, 1939.
Electric lighting outfits. T. A. Edison. 368,309; June 13; Serial No. 414,985; published Apr. 4, 1939.
Electric lighting outfits. T. A. Edison. 368,310; June 13; Serial No. 414,987; published Apr. 4, 1939.
Electrical control device, Portable. P. Roman. 368,274; June 13; Serial No. 414,002; published Apr. 4, 1939.
Game. H. O. Walker. 368,257; June 13; Serial No. 412,989; published Apr. 4, 1939.
Golf balls. Rubber Specialties Company, Inc. 368,376; June 13; Serial No. 416,295; published Apr. 4, 1939.
Telegraphic sending machines. The Vibroplex Company, Inc. 368,335; June 13; Serial No. 415,275; published Apr. 4, 1939.
Tubes and sockets, Radio. Philadelphia Storage Battery Company. 368,286; June 13; Serial No. 414,468; published Apr. 4, 1939.
Wires and cables, Insulated. The Okonite Company. 368,349; June 13; Serial No. 415,607; published Apr. 4, 1939.

CLASS 22

Bait, Fish. Shoe Form Co., Inc. 368,361; June 13; Serial No. 415,743; published Apr. 4, 1939.
Bait, Fish. Shoe Form Co., Inc. 368,362; June 13; Serial No. 415,746; published Apr. 4, 1939.
Bait, Fish. Shoe Form Co. 368,379; June 13; Serial No. 416,344; published Apr. 4, 1939.
Cards, Playing. The United States Playing Card Company. 368,217; June 13; Serial No. 403,740; published Apr. 4, 1939.
Tackle and trout flies, Fishing. A. M. Holter Hardware Co. 368,354; June 13; Serial No. 415,650; published Apr. 4, 1939.

CLASS 23

Braces, bits, snips, pliers, etc. Peck, Stow & Wilcox Company. 368,203; June 13; Serial No. 396,830; published Apr. 4, 1939.
Cream, ice cream mix, milk, etc. Cherry-Burrell Corporation. 368,256; June 13; Serial No. 412,942; published Apr. 4, 1939.
Extractors, Fruit juice. National Die Casting Sales Corp. 368,212; June 13; Serial No. 402,196; published Apr. 4, 1939.
Machines, machinery, tools, and parts thereof. American Broach & Machine Co. 126,979; renewed Oct. 21, 1939.
Pliers, nippers, wire-cutters, etc. William Schollhorn Company. 127,553; renewed Nov. 11, 1939.
Pumps, Centrifugal. A. R. Wilfley and Sons, Inc. 368,386–7; June 13.
Punches, solid punches, pin punches, etc. Enderes Incorporated. 368,228; June 13; Serial No. 406,849; published Oct. 4, 1938.
Stitching, sewing, stamping, etc., machines for cardboard, leather, and like materials. Gebruder Brehmer. 368,239; June 13; Serial No. 410,680; published Apr. 4, 1939.
Tools, Painters' and caulkers'. Calbar Paint & Varnish Company. 368,285; June 13; Serial No. 414,434; published Apr. 4, 1939.

CLASS 26

Battery testers. Atlas Supply Company. 368,282; June 13; Serial No. 414,388; published Apr. 4, 1939.
Illuminating apparatus for disclosing defects of precious stones. Gemological Institute of America. 368,237; June 13; Serial No. 410,056; published Apr. 4, 1939.
Lighting apparatus for photographic purposes, objectives, lenses, etc. Franke & Heidecke Fabrik Photographischer Prazisionsapparate. 368,216; June 13; Serial No. 402,968; published Apr. 4, 1939.
Meters, Parking. Trafico Parking Meter Co. 368,292; June 13; Serial No. 414,582; published Apr. 4, 1939.
Scales, Weighing. Toledo Scale Manufacturing Company. 368,234; June 13; Serial No. 408,975; published Apr. 4, 1939.
Speedometers. Stewart-Warner Corporation. 368,207; June 13; Serial No. 399,484; published Apr. 4, 1939.
Supports for goggles, Head. Cornell-Lenz Company. 368,253; June 13; Serial No. 412,697; published Apr. 4, 1939.

CLASS 29

Devices for oral hygiene. Lactona, Incorporated. 368,316; June 13; Serial No. 415,044; published Apr. 4, 1939.

CLASS 31

Filter mass. National Filter Corporation. 368,378; June 13; Serial No. 416,332; published Apr. 4, 1939.

CLASS 32

Benches, desks, chests, etc. John Wanamaker Philadelphia. 368,313; June 13; Serial No. 415,017; published Apr. 4. 1938.
Blinds, Venetian. H. B. Dodge and Company. 368,381; June 13; Serial No. 416,458; published Apr. 4, 1939.
Blinds, Venetian. Sam A. Wing Company. 368,340; June 13; Serial No. 415,466; published Apr. 4, 1939.
Chairs and ottomans. Floral City Furniture Company. 368,382; June 13; Serial No. 416,460; published Apr. 4, 1939.
Shades and rollers, Window. Western Shade Cloth Co. 368,373; June 13; Serial No. 416,274; published Apr. 4, 1939.
Shades and rollers, Window. Western Shade Cloth Co. 368,374; June 13; Serial No. 416,277; published Apr. 4, 1939.
Shades, window shades, and shade rollers, Mounted. Columbia Mills, Ind. 368,380; June 13; Serial No. 416,371; published Apr. 4, 1939.

CLASS 34

Air conditioning devices. W. A. Brown. 368,393; June 13.
Heaters, Gas space. K. R. Wilson. 368,273; June 13; Serial No. 413,964; published Apr. 4, 1938.
Heating, lighting, and ventilating apparatus. American Stove Company. 126,623; renewed Sept. 30, 1939.

Illuminating equipment for motor vehicles, foot-warmers, gas-lamps, etc. Daimler-Benz Aktiengesellschaft. 368,208; June 13; Serial No. 399,602; published Jan. 10, 1939.
Stokers. F. D. Yarick. 368,338; June 13; Serial No. 415,432; published Apr. 4, 1939.

CLASS 37

Books, loose leaf fillers, and binders, Composition. S. E. & M. Vernon, Inc. 368,351; June 13; Serial No. 415,615; published Apr. 4, 1939.
Ink stands, pen and ink stands, desk sets, etc. Kensington, Incorporated. 368,198; June 13; Serial No. 374,195; published Apr. 4, 1939.
Newspaper column. McNaught Syndicate, Inc. 368,222; June 13; Serial No. 405,076; published Mar. 28, 1939.
Paper and kraft paper, Wrapping. Southern Kraft Corporation. 368,197; June 13; Serial No. 370,901; published Apr. 4, 1939.
Paper for printing and writing, Boxed. Graham Paper Company. 368,320; June 13; Serial No. 415,117; published Apr. 4, 1939.
Paper, Wrapping. Crown Zellerbach Corporation. 368,275; June 13; Serial No. 414,054; published Apr. 4, 1939.
Papers, Writing. L. L. Brown Paper Company. 368,290; June 13; Serial No. 414,551; published Apr. 4, 1939.
Paper, Writing and printing. Nation Wide Papers, Inc. 368,206; June 13; Serial No. 399,314; published Apr. 4, 1939.
Paper, Writing and printing. Strathmore Paper Company. 368,294; June 13; Serial No. 414,671; published Apr. 4, 1939.
Pen nibs. W. A. Sheaffer Pen Company. 368,196; June 13; Serial No. 316,385; published May 16, 1933.
Pencils, Lead, crayon, ink, and mechanical. A. W. Faber, Inc. 368,271; June 13; Serial No. 413,902; published Apr. 4, 1939.
Tissue and wrapping paper, M. G. Southern Kraft Corporation. 368,295; June 13; Serial No. 370,898; published Apr. 4, 1939.
Tissue and wrapping paper, M. G. Southern Kraft Corporation. 368,296; June 13; Serial No. 370,900; published Apr. 4, 1939.
Tissue, Toilet. Crown Zellerbach Corporation. 368,233; June 13; Serial No. 408,457; published Apr. 4, 1939.

CLASS 38

Column heading. F. M. Cronan. 368,214; June 13; Serial No. 402,680; published Apr. 12, 1938.
Column, Syndicated. Tom Fizdale, Inc. 368,240; June 13; Serial No. 410,730; published Apr. 4, 1939.
Magazine, Toga Press Inc. 368,334; June 13; Serial No. 415,271; published Apr. 4, 1939.
Periodical. M. B. Alexander. 368,306; June 13; Serial No. 414,940; published Mar. 28, 1939.
Periodical. Down Beat Publishing Co. Inc. 368,301; June 13; Serial No. 414,776; published Mar. 28, 1939.
Periodical, Hairc Publishing Company. 368,359; June 13; Serial No. 415,714; published Apr. 4, 1939.
Periodical Rimington Publishing Co. 368,332; June 13; Serial No. 415,260; published Apr. 4, 1939.
Periodicals. F. W. Pennell. 368,360; June 13; Serial No. 415,737; published Apr. 4, 1939.
Plans and drawings, Architectural and drawings, Diagrid Structures Limited. 368,252; June 13; Serial No. 412,408; published Mar. 28, 1939.
Publication. Topics Publishing Company. 368,300; June 13; Serial No. 414,759; published Mar. 14, 1939.
Publication, Annual. B. Aitken. 368,297; June 13; Serial No. 414,680; published Mar. 21, 1939.
Publication, Periodical. Transportation Guides, Inc. 368,346; June 13; Serial No. 415,563; published Apr. 4, 1939.
Publications, Automotive News Service. 368,227; June 13; Serial No. 406,489; published Apr. 4, 1939.
Scripts for a series of broadcasts. Pacific Union Association of Seventh Day Adventists. 368,245; June 13; Serial No. 411,704; published Apr. 4, 1939.

CLASS 39

Apparel, Wearing. Gale-Rosenbaum Company. 368,289; June 13; Serial No. 414,523; published Mar. 28 1939.
Blouses, shorts, sports dresses, etc., Ladies'. McMullen-Leavens Company. 368,326; June 13; Serial No. 415,170; published Apr. 4, 1939.
Clothing. Chester Barrie, Inc. 368,255; June 13; Serial No. 412,796; published Mar. 28, 1939.
Clothing, Men's. Roger Kent, Inc. 368,321; June 13; Serial No. 415,123; published Mar. 28, 1939.
Coats and trousers and aprons for women and girls, Sport. Lek. V. Felger. 368,288; June 13; Serial No. 414,515; published Mar. 28, 1939.
Coats and suits, Women's and misses'. I. Grossman & Son, Inc. 368,342; June 13; Serial No. 415,476; published Apr. 4, 1939.
Coats and suits, Women's and misses'. Morris Peltzman Company. 368,298; June 13; Serial No. 414,754; published Apr. 4, 1939.
Coats, jackets, scarfs, etc., Women's fur. Gould's, Inc. 368,200; June 13; Serial No. 381,391; published Apr. 4, 1939.
Coats, suits, skirts, etc., Cloth. S. Cohen & Sons. 368,293; June 13; Serial No. 414,624; published Apr. 4, 1939.
Dresses and blouses. A. De Pinna Co. 368,341; June 13; Serial No. 415,471; published Apr. 4, 1939.
Dresses and uniforms. Henry A. Dix & Sons Corporation. 368,268; June 13; Serial No. 413,668; published Mar. 28, 1939.
Dresses, Girls'. Cohn, Goldwater Company. 126,829; renewed Oct. 7, 1939.
Hosiery. Berkshire Knitting Mills. 368,339; June 13; Serial No. 415,440; published Mar. 28, 1939.
Hosiery. Nick-A-Jack Hosiery Mills. 127,460; renewed Nov. 11, 1939.
Jackets, knickers, shorts, etc., Boys' lumber. B. Schwartz & Co. 368,299; June 13; Serial No. 414,755; published Apr. 4, 1939.
Lingerie. "Sel-Mor" Garment Co. Inc. 368,291; June 13; Serial No. 414,580; published Apr. 4, 1939.
Neckties. Metcalf Neckwear Company. 368,266; June 13; Serial No. 413,451; published Mar. 28, 1939.
Panties, bloomers, step-ins, etc. Continental Undergarments Co., Inc. 368,251; June 13; Serial No. 412,406; published Mar. 28, 1939.
Shirts, Men's outer. Langley's, Inc. 368,331; June 13; Serial No. 415,221; published Apr. 4, 1939.
Shirts, pants, and jackets, Outer. Oberman & Company. 368,201; June 13; Serial No. 388,365; published Apr. 4, 1939.
Shoes for boys. Sears, Roebuck and Co. 368,328; June 13; Serial No. 415,190; published Apr. 4, 1939.
Suits and overcoats. H. G. Spector. 368,281; June 13; Serial No. 414,376; published Mar. 28, 1939.
Suits and overcoats, Men's. Siskind Tailoring Co., Inc. 368,254; June 13; Serial No. 412,736; published Mar. 28. 1939.
Suits, coats, vests, etc. Baker Clothes Inc. 368,329; June 13; Serial No. 415,200; published Mar. 28, 1939.
Topcoats and overcoats. Levy Bros. & Adler Rochester, Incorporated. 368,211; June 13; Serial No. 401,938; published Apr. 4, 1939.

CLASS 42

Blankets. Beacon Manufacturing Company. 368,356; June 13; Serial No. 415,691; published Apr. 4, 1939.
Blankets. Beacon Manufacturing Company. 368,357–8; June 13; Serial Nos. 415,695–6; published Apr. 4, 1939.
Cotton flannel piece goods. Consolidated Textile Co. 368,272; June 13; Serial No. 413,930; published Apr. 4, 1939.
Fabrics in the piece, Tricot and milanese. Fairy Silk Mills. 368,258; June 13; Serial No. 413,009; published Apr. 4, 1939.
Fabrics in the piece, Textile. Swiss Fabric Group. 368,308; June 13; Serial No. 414,970; published Apr. 4, 1939.
Linen piece goods. Stevenson's Moygashel Linens, Limited. 368,333; June 13; Serial No. 415,269; published Apr. 4, 1939.
Pad for a newly born infant. L. Albert. 368,248; June 13; Serial No. 412,207; published Apr. 4, 1939.
Piece goods. Lesher, Whitman & Co. 126,308; renewed Aug. 19, 1939.
Piece goods. National Fabrics Corporation. 368,205; June 13; Serial No. 398,122; published Sept. 6, 1938.
Piece goods. William Whitman Company. 368,397; June 13.
Towels, toweling in piece, curtains, etc. Boott Mills. 368,352; June 13; Serial No. 415,630; published Apr. 4, 1939.

CLASS 44

Prophylactic skin membrane articles. Nutex Company. 368,396; June 13.
Supports, cushions, and pads for shoes, Arch. C. H. Daniels. 368,215; June 13; Serial No. 402,815; published Apr. 4, 1939.
Teeth, Artificial. Columbus Dental Manufacturing Co. 368,261–2; June 13; Serial Nos. 413,219–20; published Apr. 4. 1939.
Teeth, dentures and denture parts, Porcelain. Austenal Laboratories, Inc. 368,235; June 13; Serial No. 409,637; published Ap. 4, 1939.

CLASS 45

Beverage, and sirup and extact for making the same. Foote & Jenks, Inc. 368,344; June 13; Serial No. 415,543; published Apr. 4, 1939.
Beverages, and sirups and extracts for same, Maltless. M. Epstein. 368,347; June 13; Serial No. 415,588; published Apr. 4, 1939.
Beverages and syrups and extracts for same. Safeway Stores, Inc. 368,369; June 13; Serial No. 415,915; published Apr. 4, 1939.
Beverages, and syrups for preparation of same. G. C. Thomsen. 368,365; June 13; Serial No. 415,807; published Apr. 4. 1939.

CLASS 46

Bacon, meat loaf, liver loaf, etc. Oscar Mayer & Company. 368,246; June 13; Serial No. 411,787; published Apr. 4, 1939.

Bakery poducts. National Biscuit Company. 368,348; June 13; Serial No. 415,605; published Apr. 4, 1939.
Barbecue sauce, horseradish, spices, etc. L. E. Richardson. 368,269; June 13; Serial No. 413,738; published Apr. 4, 1939.
Biscuit. National Biscuit Company. 127,291; renewed Nov. 4, 1939.
Butter. Creamery. Rutherford Co. Creamery Assn. 126,474; renewed Aug. 26, 1939.
Candy. Huyler's. 368,230; June 13; Serial No. 407,948; published Apr. 4, 1939.
Canned and dried mushrooms. Solo Products Company. 368,315; June 13; Serial No. 415,023; published Apr. 4, 1939.
Canned fish. Sebastian Sturat Fish Co. 368,241; June 13; Serial No. 410,931; published Apr. 4, 1939.
Canned foods. Hackney's Sea Food Products, Inc. 368,259; June 13; Serial No. 413,123; published Apr. 4, 1939.
Canned fruit juices. Hearst Sunical Land and Packing Corporation. 368,210; June 13; Serial No. 401,845; published June 21, 1938.
Canned fruit juices. Hearst Sunical Land and Packing Corporation. 368,223; June 13; Serial No. 405,751; published Oct. 18, 1938.
Canned fruits, vegetables, soups, etc. James Johnson's Sons. 368,385; June 13.
Canned peaches, plums, apricots, and pineapples. G. H. Hammond Company. 126,286; renewed Aug. 19, 1939.
Canned peas. Markesan Canning Co. 368,363–4; June 13; Serial Nos. 415,785–6; published Apr. 4, 1939.
Canned squash, pumpkin, and mincemeat. Medomak Canning Company. 368,213; June 13; Serial No. 402,483; published Apr. 4, 1939.
Canned tuna fish. Sebastian Stuart Fish Co. 368,270; June 13; Serial No. 413,841; published Apr. 4, 1939.
Canned vegetables. Harlingen Canning Company. 368,250; June 13; Serial No. 412,296; published Apr. 4, 1939.
Cheese, A. Furst. 368,218; June 13; Serial No. 404,436; published Apr. 4, 1939.
Chocolate flavored syrup. Bosco Company. 368,343; June 13; Serial No. 415,540; published Apr. 4, 1939.
Chocolates. Miller & Hollis, Inc. 368,327; June 13; Serial No. 415,173; published Apr. 4, 1939.
Chocolates. Miller & Hollis, Inc. 368,395; June 13.
Coffee. American Stores Company. 368,220; June 13; Serial No. 404,679; published Apr. 4, 1939.
Coffee. Sandy Valley Grocery Company. 368,377; June 13; Serial No. 416,298; published Apr. 4, 1939.
Coffee. Standard Brands Incorporated. 368,4221; June 13; Serial No. 404,820; published Apr. 4, 1939.
Confections, Frozen. Good Humor Corporation of America. 368,243; June 13; Serial No. 411,352; published Apr. 4, 1939.
Crackers. King Kone Corporation. 368,392; June 13.
Crackers, Oyster. Mountain City Mill Co. 368,209; June 13; Serial No. 401,502; published Apr. 4, 1939.
Flour and scratch feed, Wheat. Charleston Milling & Produce Company. 368,199; June 13; Serial No. 375,692; published Apr. 12, 1938.
Flour, Wheat. Loudonville Mill & Grain Co. 127,196; renewed Oct. 21, 1939.
Flour, Wheat. C. B. Stout. 368,244; June 13; Serial No. 411,554; published Mar. 28, 1939.
Food, Dog. Mid City Wholesale Grocers. 368,317; June 13; Serial No. 415,050; published Apr. 4, 1939.
Fruit, Fresh citrus. Corona Foothill Lemon Company. 368,390; June 13.
Fruits, Citrus. Anaheim Orange & Lemon Association. 127,262; renewed Nov. 4, 1939.
Fruits, Fresh citrus. Anaheim Orange & Lemon Association. 126,982–3; renewed Oct. 21, 1939.
Fruits, Fresh deciduous. E. H. Divelbiss. 368,302; June 13; Serial No. 414,823; published Apr. 4, 1939.
Ice cream and sherbet. Lucerne Cream and Butter Company. 368,355; June 13; Serial No. 415,657; published Apr. 4, 1939.
Macaroni. E. L Kaffer. 368,366; June 13; Serial No. 415,845; published Apr. 4, 1939.
Meats and meat products. Oscar Mayer & Company. 368,232; June 13; Serial No. 408,351; published Apr. 4, 1939.
Potatoes. P. J. D'Aquila. 368,303; June 13; Serial No. 414,864; published Apr. 4, 1939.
Watermelons. M. McR. Pinner. 368,236; June 13; Serial No. 409,653; published Apr. 4, 1939.

CLASS 47

Wines. East Side Winery. 368,307; June 13; Serial No. 414,946; published Apr. 4, 1939.
Wines. Italian Swiss Colony. 368,277; June 13; Serial No. 414,193; published Apr. 4, 1939.

CLASS 48

Beer. General Brewing Corporation. 368,319; June 13; Serial No. 415,080; published Apr. 4, 1939.
Beer. Los Angeles Brewing Co. 368,249; June 13; Serial No. 412,263; published Apr. 4, 1939.
Beer and ale. General Brewing Corporation. 368,318; June 13; Serial No. 415,079; published Apr. 4, 1939.

CLASS 49

Anisette, cocktail bitters, brandy, etc. Leroux and Company. 368,399; June 13.
Brandy. Italian Swiss Colony. 368,383; June 13; Serial No. 416,464; published Apr. 4, 1939.
Brandy, rum, anisette, etc. Leroux and Company. 368,400; June 13.
Rum. Destileria Tropical. 368,353; June 13; Serial No. 415,638; published Apr. 4, 1939.
Rum. Henry White & Co. 16,486; re-renewed Apr. 9, 1939.
Whiskey, Scotch type. Julius Loeser Company, Inc. 368,238; June 13; Serial No. 410,434; published Nov. 22, 1938.
Whisky. Dailuaine-Talisker Distillers Limited. 368,375; June 13; Serial No. 416,285; published Apr. 4, 1939.
Whisky. Duncan Weston & Company Limited. 368,267; June 13; Serial No. 413,526; published Apr. 4, 1939.

CLASS 50

Fabric treated with non-slipping material. Behr-Manning Corporation. 368,284; June 13; Serial No. 414,429; published Apr. 4, 1939.
Forms in various sizes for blocking sweaters, etc. D. M. Shaw. 368,263; June 13; Serial No. 413,321; published Apr. 4, 1939.
Leather substitutes. Prospect Mills Corp. 368,350; June 13; Serial No. 415,610; published Apr. 4, 1939.
Signs and parts therefor, Mechanical. Western Cataphote Corporation. 368,247; June 13; Serial No. 411,924; published Apr. 4, 1939.

LIST OF LABELS

Banana Cream. For Pies. Fibreware Company. 53,135; June 13.
Beech-Nut Tomato Juice. For Tomato Juice. Beech-Nut Packing Company. 53,127; June 13.
Blue Coal. For Water Heaters. Delaware, Lackawanna & Western Coal Company. 53,132; June 13.
Champagne Grape Salts. For an Effervescent Fruit Sauce. A. C. Mestrand. 53,145; June 13.
Cherry. For Pies. Fibreware Company. 53,134; June 13.
Dante Italo-American Cigarettes. For Cigarettes. C. Gialanella. 53,139; June 13.
Foot Wear. For Footwear. Frank C. Meyer Co. Inc. 53,146; June 13.
Gerst Pilsner Beer. For Pilsner Beer. William Gerst Brewing Company. 53,138; June 13.
Holt Lin-Flake. For Soap Flakes. K. B. Cannon. 53,131; June 13.
Huck Finn. For Apple Jack Brandy. Joseph H. Reinfeld, Inc. 53,151; June 13.
Hyde Park True Lager Beer. For Lager Beer. Tyde Park Breweries Association, Inc. 53,140; June 13.
Hygeia Fancy Butter. For Butter. Hygeia Milk Products Company. 53,141; June 13.
John H. Ericson, Violin Maker. For Hand Made Violins, Violas and Cellos. H. J. Ericson. 53,133; June 13.
La Morra Ivory Tip Cigars. For Cigars. Abe Schlachet and Anthony Greco. 53,152; June 13.
Lindy Julep. For a Non-Alcoholic Beverage. Bunnell & Campbell. 53,129; June 13.
Lucky Mo-Jo Brand Candles. For Candles. M. G. Neumann. 53,148; June 13.
Luxury. For Extra Dry Pilsner Beer. Los Angeles Brewing Co. 53,143; June 13.
Official New York World's Fair Souvenir. For Knives. Camillus Cutlery Co. 53,130; June 13.
One-Two Button Your Shoe. For a Game. S. Finkelstein. 53,136; June 13.
Patrons' Choice. For Peeled Nectarines. Selected Food Specialties Co. 53,153; June 13.
Relaxation a Safe Corn and Callus Remover. For a Pharmaceutical Preparation for the Removal of Corns and Calluses. Allen Chemical Co. Inc. 53,125; June 13.
Royal. For Composition Books. Osborn Paper Company. 53,150; June 13.
Sincerity. For Sugar Corn. Banner Wholesale Grocers, Inc. 53,126; June 13.
The Campus. For Candy. A. Marks. 53,144; June 13.
The Double Q. For Composition Books. Osborn Paper Company. 53,149; June 13.
This Bread Contains Vitamins A B, C D E G Made from Frantz 101. For Bread. C. C. Frantz. 53,137; June 13.
"Tomorrow's Heirloom—'The Theme' Charm". For Charms. W. Lampl. 53,142; June 13.
Valley Farms Butter. For Creamery Butter. Bowser Sales & Trading Corporation. 53,128; June 13.
Value-Craft. For Footwear. Frank C. Meyer Co. Inc. 53,147; June 13.

LIST OF PRINTS

Bacon and—Most Anything for Dinner Today. For Bacon. Transparent Package Company. 17,451; June 13.
Big Double Treat, Buck Rogers on the Radio, Fine Outside—Dandy Inside, 5¢ Creamsicle, Deliciously Coated Ice Cream. For Frozen Confections on a Stick Made of Ice Cream Deliciously Coated. Joe Lowe Corporation. 17,444; June 13.
Buck Rogers on the Air This Summer! For Creamsicle Genuine Jo-Lo Frozen Confections on a Stick. For Frozen Confections on a Stick. Joe Lowe Corporation. 17,447; June 13.
Camel E–26. For Cigarettes. R. J. Reynolds Tobacco Company. 17,449; June 13.
Gee Gang! Try Popsicle Jr. a Real Genuine Popsicle 3¢. For Frozen Confections on a Stick. Joe Lowe Corporation. 17,443; June 13.
Gentlemen Prefer—Beef Pot Pie. For Beef. Transparent Package Company. 17,452; June 13.
Hornecraft. For Ashtrays, Horns, Pendant Flower Vases and Other Products Made of Animal Horns. Al Rosenberg. 17,450; June 13.
McKesson's Men's Set. For Men's Gift Package Containing Cosmetics for Men. W. J. Wardall. 17,455; June 13.
Mm! Mm! Mammy-Fried Chicken for Dinner Today. For Chicken. Transparent Package Company. 17,453; June 13.
Mr. Ham Goes to Town. For Meat. John Morrell & Co. 17,448; June 13.
New Big Cakesicle. For Combination Ice Cream and Cake Confection on a Stick. Joe Lowe Corporation. 17,442; June 13.
Popsicle Pete the Summer Santa Claus, Popsicle—Fudgicle Creamsicle. For Frozen Confections on a Stick. Joe Lowe Corporation. 17,445; June 13.
Popsicle Fudgicle Creamsicle Save Bags for Free Gifts, Genuine Jo-Lo Frozen Confections on-a-Stick. For Frozen Confections on a Stick. Joe Lowe Corporation. 17,446; June 13.
Tak-It. For Boxes, Cartons and Folders. United Paperboard Company. 17,454; June 13.
Us Kids Love Our Favorite Ice Cream on-a-Stick. For Ice Cream Confections on a Stick Coated with Chocolate. Joe Lowe Corporation. 17,441; June 13.
Vegetable Garden Ideas with Ferry's Seeds. For Seeds. Ferry-Morse Seed Co. 17,440; June 13.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ankenbruck, Leo S. (See Suhm, C. E., and Ankenbruck.)
Clark, John T., Company. (See Winterbauer, Henry T., assignor.)
Cossette, Antoine, et al. (See Suhm, Charles E. and Ankenbruck, assignors.)
Franklin, John L., Atlanta, Ga. Phonographic announcing mechanism or the like. Re. 21,111; June 13.
Hesse, Paul J., et al. (See Suhm, C. E., and Ankenbruck, assignors.)
Jacobs, F. L., Company. (See Visser, John, assignor.)
Nilson, Leonard D., Wayzata, assignor to Vulcan Manufacturing Co., Inc., St. Paul, Minn. Bumper jack. Re. 21,112; June 13.
Sproull, Charles W., Houston, Tex. Valve. Re. 21,113; June 13.
Suhm, Charles E., and L. S. Ankenbruck, Houston, assignors of one-fourth to A. Cossette and one-fourth to P. J. Hesse, Harris County, Tex. Pump rod assembly. Re. 21,114; June 13.
Visitacion, Aniceto R., New York, N. Y. Hair curler. Re. 21,117; June 13.
Visser, John, Grand Rapids, assignor, by mesne assignments, to F. L. Jacobs Company, Detroit, Mich. Ash receiver. Re. 21,118; June 13.
Vulcan Manufacturing Co. (See Nilson, Leonard D., assignor.)
Winterbauer, Henry T., assignor to John T. Clark Company, Chicago, Ill. Playing ball. Re. 21,115; June 13.
Wirz, Emil, Biel, Switzerland. Transformer. Re. 21,116; June 13.
Zell, David H., Brooklyn, N. Y. Indicator container. Re. 21,119; June 13.

LIST OF PLANT PATENTEES

Florex Gardens, The. (See Riesselmann, Karel, assignor.)
Riesselmann, Karel, assignor to The Florex Gardens, North Wales, Pa. Rose. 330; June 13.

LIST OF DESIGN PATENTEES

Ahlborg, John E., Denver, Colo. Paper towel dispensing cabinet or similar article. 115,189; June 13.
Ahlborg, John E., Denver, Colo. Paper towel dispensing cabinet or similar article. 115,190; June 13.
Arens, Egmont, New York, N. Y., assignor to Atlas Supply Company, Newark, N. J. Battery tester. 115,245; June 13.
Atlas Supply Company. (See Arens, Egmont, assignor.)
Backus, Marcia, New York, N. Y. Dress ensemble. 115,282; June 13.
Badanes, Samuel E. (See Starr, L. B., and Badanes.)
Bagg, Linus W., Montclair, N. J. Shoe or similar article. 115,191; June 13.
Beiding, Harold L., Northampton, assignor to Henrici Laundry Machinery Company, Boston, Mass. Laundry washer. 115,192; June 13.
Billings, Robert T., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Plastic sheet or similar article. 115,246; June 13.
Blood, Louis H., Covington, Ky., and L. F. Nenninger, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Machine tool unit. 115,193; June 13.
Bonnell, William L., Columbus, Ohio. Molding strip. 115,247; June 13.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Combination vanity and lipstick case. 115,194; June 20.
Bradley Washfountain Company. (See Mullett, Howard A., assignor.)
Brown, M. Stanley, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland. Ensemble dress or similar article. 115,257; June 13.
Brown, M. Stanley, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland. Dress or similar article. 115,258; June 13.
Brown, M. Stanley, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland. Ensemble dress or similar article. 115,259; June 13.
Brown, M. Stanley, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland. Dress or similar article. 115,260; June 13.
Bruce, Leo L., Framingham, Mass., assignor to Warren Telechron Company, Clock case. 115,195; June 13.
Bruce, Leo L., Framingham, Mass., assignor to Warren Telechron Company, Clock case. 115,196; June 20.
Bry, Louis, New York, N. Y. Textile fabric. 115,261; June 13.
Bry, Louis, New York, N. Y. Textile fabric. 115,262; June 13.
Cavignac, Frank H., New York, N. Y. Golf game device or similar article. 115,197; June 13.
Certified Burglar Alarm Systems, Inc. (See Schwartz, Gustaf, assignor.)
Chicago Electric Manufacturing Company. (See Renga, Fernando L., assignor.)
Ciccarelli, Ostilio, assignor to The E. Ingraham Company, Bristol, Conn. Clock case. 115,198; June 13.
Cincinnati Milling Machine Co., The. (See Blood, L. H., and Nenninger, assignors.)
Cincinnati Milling Machine Co., The. (See Vancil, E. D., and Raehrs, assignors.)
Cook, Edwin M., Sacramento, Calif. Knife pouch. 115,248; June 13.
Cohn, Alfred, Milwaukee, Wis. Combined hat and scarf. 115,228; June 13.
Coleman, Tora, New York, N. Y. Dress ensemble. 115,263; June 13.
Coty, Inc. (See Botham, Arthur R., assignor.)
Courtine, Rene, New York, N. Y. Handbag. 115,249; June 13.
Crane Co. (See Olson, Charles A., assignor.)
Crumpton, John L., Durham, N. C. Finger ring. 115,250; June 13.
Defren, Irving, Brooklyn, N. Y. Desk ornament or the like. 115,251; June 13.
De Pasquale, Sabina, New York, N. Y. Dress. 115,280; June 13.
De Pasquale, Sabina, New York, N. Y. Dress. 115,281; June 13.
De Vilbiss Company, The. (See Vuillemenot, Frederic A., assignor.)
Dillon, David, New York, N. Y. Combined radio cabinet and stand. 115,199; June 13.
Dispatch Shops, Inc. (See Steuber, George A., assignor.)
Dorée, Silvia, New York, N. Y. Shoe or similar article. 115,200; June 13.
Dorée, Silvia, New York, N. Y. Shoe or similar article. 115,201; June 13.
Du Pont, E. I., de Nemours & Company. (See Billings, Robert T., assignor.)
Edelson, Harry E., New York, N. Y. Pillow support for a bed or similar article. 115,229; June 13.
Foster, James A. (See Moore, Charlie A., assignor.)
Fracchia, Pauline, New York, N. Y. Dress. 115,264; June 13.
Fuerst, Edwin W., assignor to Libbey Glass Company, Toledo, Ohio. Tumbler. 115,202; June 13.
Fuller, Paul M., Chicago, Ill., assignor to The Rudolph Wurlitzer Company. Electric remote control casing or the like. 115,203; June 13.
Gleitsman, Harold, New York, N. Y. Hamper or similar article. 115,230; June 13.
Graef, Fred, Cincinnati, Ohio. Game board. 115,204; June 13.
Graves, Edward B., South Euclid, and R. J. Stava, East Cleveland, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio. Control panel board and housing for dental X-ray machines. 115,231; June 13.
Habegger, Carl T., Berne, Ind. Band uniform or similar article. 115,232; June 13.

Heisey, A. H., & Company. (See Heisey, T. Clarence, assignor.)
Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass celery tray or article of similar nature. 115,205; June 13.
Henrici Laundry Machinery Company. (See Belding, Harold L., assignor.)
Herschell, Allan, Company. (See Wendler, William J., assignor.)
Holyoke Card & Paper Company. (See von Ehrn, Carl W., assignor.)
Huff, Ray Z., Jackson, Mich. Outlet box. 115,206; June 13.
Ingraham, E., Company, The. (See Ciecarelli, Ostilio, assignor.)
Itton, William M., Chicago, Ill. Badge or similar article. 115,265; June 13.
Johnson, Ausgarius H., Chicago, Ill. Combined salt and pepper holder. 115,207; June 13.
Katz, Adolph, New York, N. Y. Brooch or similar article. 115,266; June 13.
Kaufmännisches Directorium. (See Brown, M. Stanley, assignor.)
Kemsley, Albert, Detroit, Mich. Badge or similar article. 115,252; June 13.
Kiss, Charles, Hamden, Conn. Wall bracket for flower pots. 115,208; June 13.
Lawson, Harriette A. (See Steinweg, Eichard, assignor.)
Levy, Maurice M., New York, N. Y. Game device. 115,209; June 13.
Libbey Glass Company. (See Fuerst, Edwin W., assignor.)
Loeb, Sylvia, New York, N. Y. Handkerchief display unit. 115,210; June 13.
McBride, Clifford A., East Providence, R. I. Receptacle for beer scrapers or the like. 115,211; June 13.
McBride, Clifford A., East Providence, R. I. Combination receptacle for beer scrapers or the like and support. 115,212; June 13.
McShane, Arthur T., and H. E. Tyler, Columbus, Ohio. Telephone lamp or similar article. 115,213; June 13.
Meisler, Henry, New York, N. Y. Dress. 115,267; June 13.
Millett, John E., assignor to Sackner Bag Company, Grand Rapids, Mich. Open mesh bag. 115,233; June 13
Moore, Charlie A., assignor of one-half to J. A. Foster, Nashville, Tenn. Comb. 115,214; June 13.
Mullett, Howard A., assignor to Bradley Washfountain Company, Milwaukee, Wis. Mirror head for washfountains. 115,268; June 13.
Nakashima, Soichi, San Francisco, Calif. Paper napkin. 115,215; June 13.
Nenninger, Lester F. (See Blood, L. H., and Nenninger.)
Newsome, Howard P. G., Memphis, Tenn. Golf club head. 115,216; June 13.
Newsome, Howard P. G., Memphis, Tenn. Golf club head. 115,217; June 13.
Nielson, Maurine, New York, N. Y. Hat or similar article. 115,234; June 13.
Novick, Daniel, Chicago, Ill. Dress. 115,269; June 13.
Olson, Charles A., Geneva, assignor to Crane Co., Chicago, Ill. Handwheel. 115,235; June 13.
Osbrink, Raymond H., Los Angeles, Calif. Lane marker. 115,236; June 13.
Packwood, George H., Jr., St. Louis, Mo. Dispenser for powdered soap or the like. 115,218; June 13.
Packwood, George H., Jr., St. Louis, Mo. Dispenser for powdered soap or the like. 115,219; June 13.
Parks, Fred B., Grand Rapids, Mich. Wall tie or the like. 115,253; June 13.
Picker X-ray Corporation, Waite Manufacturing Division, Inc. (See Graves, E. B., and Stava, assignors.)
Raehrs, Emery C. (See Vancil, E. D., and Raehrs.)
Renga, Fernando L., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Vibrator. 115,237; June 13.
Rose, Elmer D., Bradford, Pa. Game board. 115,220; June 13.
Roth, Jules, New York, N. Y. Dress. 115,270; June 13.
Roth, Jules, New York, N. Y. Dress. 115,271; June 13.
Rubin, Jack, New York, N. Y. Textile fabric. 115,272; June 13.
Rubin, Jack, New York, N. Y. Textile fabric. 115,273; June 13.
Rubin, Jack, New York, N. Y. Textile fabric. 115,274; June 13.
Rubin, Jack, New York, N. Y. Textile fabric. 115,275; June 13.
Rubin, Jack, New York, N. Y. Textile fabric. 115,276; June 13.
Sackner Bag Company. (See Millett, John E., assignor.)
Scala, Jacob, Brooklyn, N. Y. Handbag. 115,238; June 13.
Schwartz, Gustaf, assignor to Certified Burglar Alarm Systems, Inc., Chicago, Ill. Bell housing for electrically operated alarms. 115,239; June 13.
Silex Company, The. (See Wolcott, Frank E., assignor.)
Starr, Lillie B., New York, and S. E. Badanes, Flushing, N. Y. Dress or similar article. 115,277; June 13.
Stava, Robert J. (See Graves, E. B., and Stava.)
Steinweg, Richard, New York, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 115,278; June 13.
Steuber, George A., Penfield, assignor to Dispatch Shops, Inc., East Rochester, N. Y. Freight car body. 115,240; June 13.
Stevens, George J., Cleveland, Ohio. Door knocker. 115,221; June 13.
Stoll, Charles, New York, N. Y. Sofa or similar article. 115,254; June 13.
Storch, Max H., Bell Harbor, Long Island, N. Y. Hand mirror. 115,222; June 13.
Stough, Turney H., Jeannette, Pa. Candy container. 115,241; June 13.
Taylor, Cooper E., Charlotte, N. C. Display stand. 115,255; June 13.
Taylor, Harry, New York, N. Y. Table lamp or similar article. 115,242; June 13.
Tyler, Harry E. (See McShane, A. T., and Tyler.)
Vancil, Edgar D., and E. C. Raehrs, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Machine tool unit. 115,223; June 13.
Vaughan & Bushnell Mfg. Co. (See Vaughan, Sanford S., assignor.)
Vaughan, Sanford S., Oak Park, assignor to Vaughan & Bushnell Mfg Co., Chicago, Ill. Hatchet head. 115,256; June 13.
Von Ehrn, Carl W., assignor to Holyoke Card & Paper Company, Springfield, Mass. Decorative paper. 115,279; June 13.
Vuillemenot, Frederic A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. 115,243; June 13.
Warren Telechron Company. (See Bruce, Leo L., assignor.)
Wendler, William J., North Tonawanda, assignor to Allan Herschell Company, Incorporated, Tonawanda, N. Y. Amusement device. 115,224; June 13.
Williams, Milford L., Moline, Ill. Electric water pump unit. 115,244; June 13.
Wilson, Joseph P., Atlanta, Ga. Astrological and mystic robot. 115,225; June 13.
Wolcott, Frank E., West Hartford, Conn., assignor to The Silex Company. Coffee maker. 115,226; June 13.
Wurlitzer, Rudolph, Company, The. (See Fuller, Paul M., assignor.)
Ziniti, Evelyn, New York, N. Y. Slipper. 115,227; June 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abadie, Jean B. J. M., assignor of one-half to Lumincles (Societe a responsabilite limitee), Paris, France. Electrode for vacuum tubes. 2,161,790; June 13.
Abbott, Stanley A., London, England. Discharge tube electrode. 2,162,414; June 13.
Ackron, Albert, Chicago, Ill. Beam compass. 2,162,568; June 13.
Acme Electric & Manufacturing Company, The. (See Comstock, James A., assignor.)
Adam, Frank, Electric Company. (See Adam, Frederick B., assignor.)
Adam, Frederick B., St. Louis County, assignor to Frank Adam Electric Company, St. Louis, Mo. Electric heater. 2,162,341; June 13.
Adams, Arthur H., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting and typing means for printing telegraphs. 2,161,840; June 13.
Adelman, William S., Chicago, Ill. Electric receptacle support. 2,161,841; June 13.
Adlake Company, The. (See Verhagen, Christian M., assignor.)
Agfa Ansco Corporation. (See Bornmann, Carl, assignor.)
Agfa Ansco Corporation. (See Roehrl, Bruno C., assignor.)
Agfa Ansco Corporation. (See Wilmanns, Gustav, assignor.)
Aktiebolaget Bolinder-Munktell. (See Evrell, Kaleb E., assignor.)
Aktiebolaget Termisk Isolation. (See Munters, Carl G., assignor.)
Albinson, Harold H., assignor to General Motors Corporation, Detroit, Mich. Automobile storage compartment. 2,162,046; June 13.
Allen, Hugh E., assignor of one-half to A. G. McCaleb, Evanston, Ill. Method and compound for treating meats. 2,162,047; June 13.
Allen, Raymond H., et al. (See Conger, Earnest J., assignor.)
Allen, William G., Salem, Oreg. Apparatus for handling fruits. 2,162,415; June 13.
Allgemeine Elektricitatz Gesellschaft. (See Schulze, Walter, assignor.)
Allis-Chalmers Manufacturing Company. (See Shaeffer, George D., assignor.)
Allison, William F., Sr., Strong City, Kans. Combination lens and reflector. 2,161,842; June 13.
Alston, Henry D., Livingston, Tex. Pipe cutter. 2,162,210; June 13.
Ambrose, C. M. (See Waugh, Edward H., assignor.)
American Can Company. (See Woolford, Custis S., assignor.)
American Foundry Equipment Company, The. (See Unger, Chester E., assignor.)
American Machine & Foundry Company. (See Crighton, John, assignor.)
American Machine & Foundry Company. (See Rhodes, Herbert C., assignor.)
American Machine & Foundry Company. (See Shackleton, Jack, assignor.)
American Magnesium Metals Corporation. (See Erdmann, Konrad, assignor.)
American Metal Products Company. (See Matthael, F. C., and Dooley, assignors.)
American Monorail Company, The. (See Lawrence, James P., assignor.)
American Radiator & Standard Sanitary Corporation. (See Manning, Fowler, assignor.)
American Steel and Wire Company of New Jersey. (See Brickman, A. E., and Gleason, assignors.)
American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)
American Steel and Wire Company of New Jersey, The. (See Gleason, George A., assignor.)
American Steel and Wire Company of New Jersey, The. (See Laufer, E. W. D. and Reis, assignors.)
American Stove Company. (See Hoffman, Rudolph, assignor.)
Amren, Adolf, assignor to the firm of Lutto S. A., Basel, Switzerland. Button. 2,161,780; June 13.
Amthor, Frank G., East Rutherford, and G. Zinzalian, assignors to Wecoline Products, Inc., Boonton, N. J. Treatment of fatty acids. 2,162,542; June 13.
Anders, John F., Kitchawan, N. Y. Oil engine. 2,162,47[illegible] June 13.
Andersen, Carl N., Wellesley Hills, Mass., assignor to Lever Brothers Company. Orangic mercury compound. 2,162,211; June 13.
Anderson, Gustaf W. (See Lindholm, A. W., and Anderson.)
Anderson, Harley E., Chicago, Ill., assignor of one-half to W. F. White, Fort Worth, Tex. Bolster spring. 2,162,342; June 13.
Anderson, Harry M. (See Hage, Walter, assignor.)
Animal Trap Company of America. (See Lehn, J. U., and Zahm, assignors.)
Apex Electrical Manufacturing Company, The. (See McCabe, J. J., and Seyfried, assignor.)
Appleton Coated Paper Company, The. (See Hefti, Hans, assignor.)
Archer-Daniels-Midland Company. (See Haas, Frank C., assignor.)
Arden Farms, Inc. (See Berch, S. H., Ray and Chase, assignors.)
Arit, Oscar H., Zwickau, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany. Springing arrangement for vehicles. 2,162,291; June 13.
Armstrong Bros. Tool Co. (See Rhinevault, Harry A., assignor.)
Armstrong, Fullerton G. G., assignor to The Armstrong's Patent Co. Ltd., Beverly, East Yorkshire, England. Hydraulic shock absorber or the like damping means. 2,162,292; June 13.
Armstrong, George C., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control device. 2,162,521; June 13.
Armstrong, Victor C., Short Hills, N. J., assignor to Poor & Company, New York, N. Y. Rail joint bar. 2,162,293; June 13.
Armstrong's Patent Co. Ltd., The. (See Armstrong, Fullerton G. G., assignor.)
Ashley, Frank M., Great Kills, N. Y., assignor to L. Gompers, as trustee. Inkstand. 2,161,843; June 13.
Ashley, John W. (See La Chapelle, F. N., and Ashley.)
Askew, Wade H., Mobile, Ala. Locking mechanism for motor vehicle doors. 2,162,048; June 13.
Asnes, Benjamin, assignor to Dennison Manufacturing Company, Framingham, Mass. Decorative method and product. 2,161,990; June 13.
Atlas Ago Chemische Fabrik, Aktien-Gesellschaft. (See Müller, W., and Closmann, assignors.)
Atwood, Harry N., South Lyndeboro, N. H. Composite shatterproof window glass. 2,162,598; June 13.
Austin, Harry M., and J. A. Muir, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Track rail supporting device. 2,162,599; June 13.
Auto Cream Whip Corporation. (See Marmorek, Louis, assignor.)
Auto Research Corporation. (See Kocher, Edward H., assignor.)
Auto Union Aktiengesellschaft. (See Arlt, Oskar H., assignor.)
Auto Union Aktiengesellschaft. (See Siebler, Oskar, assignor.)
Autographic Register Company. (See Borchers, William G., assignor.)
Automatic Traffic Counter Company. (See Cutler, Curtis D., assignor.)
Avery-Hardoll Limited. (See Fraser, John, assignor.)
Avery, Harold T., Oakland, Calif., assignor to Marchant Calculating Machine Company. Electrical control device. 2,162,237; June 13.
Avery, Harold T., Oakland, and H. M. Dustin, Berkeley, Calif., assignors to Marchant Calculating Machine Company. Clutch and power transmission. 2,162,238; June 13.
B and B Shoe Company. (See Golden, Louis J., assignor.)
Bäbler, Justus, Zurich-Albisrieden, Switzerland, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Amplifier cascade with negative feedback. 2,161,844; June 13.
Backus, Harold A. (See Daland, E., and Backus.)
Baehr, Hans, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany. Production of olefins. 2,161,991; June 13.
Bakelite Corporation. (See Seebach, Fritz, assignor.)
Bakelite Corporation. (See Welth, George S., assignor.)
Baker, Albert F., Santa Rosa, assignor of three-fourths to A. M. Baker, Stockton, Calif. Fishing lure. 2,162,049; June 13.
Baker, Albert M. (See Baker, Albert F., assignor.)
Baker, Edward B. (See James, R. F., and Baker.)
Balas, George, Cleveland, Ohio, assignor to The Benco Manufacturing Company. Expanding a spring feeding finger. 2,162,050; June 13.
Baldwin, David E., Portsmouth, Va. Crochet stand or holder. 2,162,294; June 13.
Baldwin-Southwark Corporation. (See Dinzl, Richard W., assignor.)
Ball, Albert L., Lewiston, assignor by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y. Filler for abrasive articles. 2,162,600; June 13.

Ballman, Edwin C., St. Louis, Mo. Oil burner. 2,162,051; June 13.

Band, Philip. (See Dahler, August, assignor.)

Banner, Otto A., Highland Park, N. J. Power transmission. 2,162,543; June 13.

Barker, Maurice E., and R. S. Brown, Edgewood, Md. Activation of compressed wood. 2,162,366; June 13.

Barker, Virgil D., Westfield, N. J. Fluid dispensing apparatus. 2,162,474; June 13.

Barnes, Thomas D., Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Watt-hour meter load compensation. 2,162,522; June 13.

Barr, John L., Chevy Chase, Md., and M. M. Overman, Washington, D. C., said Overman assignor to said Barr. Device for facilitating the turning of steering wheels. 2,161,907; June 13.

Barrett, Arthur M., Winnetka, assignor to Barrett-Cravens Company, Chicago, Ill. Barrel rack. 2,162,497; June 13.

Barrett-Cravens Company. (See Barrett, Arthur M., assignor.)

Barton, William A., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-supplying mechanism. 2,161,845; June 13.

Battocchi, Silvio, Springfield, Mass. Rotary knife sharpener. 2,161,992; June 13.

Baue, Carl D., St. Louis, Mo. Ink fountain. 2,161,943; June 13.

Bauer, Carl, assignor to Missouri Rolling Mill Corporation, St. Louis, Mo. Fence structure. 2,161,944; June 13.

Bauerschmidt, Kuno, Berlin, Germany, assignor to General Electric Company. Electric circuit interrupter. 2,162,569; June 13.

Baumfalk, John, Jersey City, N. J.; W. Bennett, Brooklyn, N. Y.; and P. L. Wright, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time-of-day announcing system. 2,161,945; June 13.

Bayley, William, Company, The. (See Bayley, William D., assignor.)

Bayley, William D., assignor to The William Bayley Company, Springfield, Ohio. Window assembly. 2,161,791; June 13.

Bayley, William D., Springfield, Ohio. Detention window and glazing same. 2,161,792; June 13.

Bayley, William D., Springfield, Ohio. Window. 2,162,601; June 13.

Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation. Heel. 2,161,846; June 13.

Beard, Earl E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounds of the pyrazolanthrone series. 2,162,206; June 13.

Beard, Earl E., South Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compound of the pyrazolanthrone series. 2,162,205; June 13.

Beaucolin, Constant, Luxemburg, Luxemburg. Reflector-heater with sheathed electric heating elements. 2,161,793; June 13.

Becker, Oskar W., Hamburg, assignor, by mesne assignments, to Naturin Gesellschaft mit beschränkter Haftung, Weinheim, Germany. Method of and apparatus for making artificial sausage casings. 2,161,908; June 13.

Beebe, Raymond H., Bridgeport, Conn., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Machine for and method of winding headlight coils. 2,162,498; June 13.

Beech-Nut Packing Company. (See Galton, Landon C., assignor.)

Beiter, Frank, New York, N. Y. Hairpin. 2,161,946; June 13.

Belcher, Clarence F. (See Lulek, R. N., and Belcher.)

Belflex Corporation, The. (See Flickinger, Dale B., assignor.)

Bell & Howell Company, The. (See Howell, Albert S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Baumfalk, J., Bennett and Wright, assignors.)

Bell Telephone Laboratories, Incorporated. (See Christensen, Carl J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hersey, Ralph E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Meszar, John, assignor.)

Bell Telephone Laboratories, Incorporated. (See Mott, Edward E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Peek, Robert L., Jr., assignor.)

Bell Telephone Laboratories Incorporated. (See Smith, George O., assignor.)

Benander, George B., Yalesville, Conn., assignor to The Monowatt Electric Corporation. Plug cap. 2,162,544; June 13.

Benander, George B., Yalesville, and G. P. Schwabacher, Bridgeport, Conn., assignors to General Electric Company. Electric fixture. 2,162,545; June 13.

Benco Manufacturing Company, The. (See Balas, George, assignor.)

Bendix Aviation Corporation. (See Chappell, Ralph R., assignor.)

Bendix Aviation Corporation. (See Jenny, Cletus J., assignor.)

Bendix Home Appliances, Inc. (See McCollum, Andrew O., assignor.)

Benedek, Elek K., Bucyrus, Ohio. Hydraulic pump or motor. 2,161,794; June 13.

Benedict, Rome R., Chattanooga, Tenn. Collapsible tube key. 2,162,295; June 13.

Benello, Egidio M., New York, N. Y. Moistening device for duplicating machines. 2,161,795; June 13.

Benjamin, Merrill G., Alhambra, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Feeding mechanism. 2,161,892; June 13.

Bennett, Owen G., assignor to Catalyst Research Corporation, Pittsburgh, Pa. Apparatus for analyzing gases. 2,162,395; June 13.

Bennett, William. (See Baumfalk, J., Bennett and Wright.)

Berch, Samuel H., and D. Ray, Los Angeles, and E. S. Chase, Glendale, assignors to Arden Farms, Inc., Los Angeles, Calif. Protective hood for bottles. 2,161,993; June 13.

Berg, Carl F. (See Johnson, Eric R., assignor.)

Benermann, Wilhelm, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphia m. b. H., Berlin, Germany. Electric indicating device. 2,162,239; June 13.

Bird, Don A., Detroit, Mich. Brake lever mechanism. 2,162,052; June 13.

Bishop, Leonard J., assignor to Mechanical Handling Systems, Inc., Detroit, Mich. Power drive unit. 2,161,893; June 13.

Bishop, Leonard J., assignor to Mechanical Handling Systems, Inc., Detroit, Mich. Drive unit. 2,161,894; June 13.

Bissell, Rex I., Willamina, Oreg. Needle threading device. 2,162,154; June 13.

Bixler, Harley H., Schenectady, N. Y., asisgnor to General Electric Company. Valve assembly. 2,162,570; June 13.

Black-Clawson Company, The. (See Howard, Charles W., assignor.)

Black, Leo B., Denver, Colo. Inclination gauge. 2,162,602; June 13.

Blackledge, Carroll R. (See Slusher, Harold R., assignor.)

Blatt, Harry, Mount Vernon, N. Y. Carton opener. 2,162,053; June 13.

Blaw-Knox Company. (See Croft, George M., assignor.)

Blaw-Knox Company. (See Jessen, John D., assignor.)

Bliss, E. W., Company. (See Khatunzeff, Serge, assignor.)

Blodgett, Raymond S., East Orange, N. J., assignor to The Bristol Company, Waterbury, Conn. System for control of discontinuous processes. 2,161,847; June 13.

Blood, Howard E., and R. R. Potter, Detroit, Mich., assignors, by mesne assignments, to Borg-Warner Corporation. Air conditioning apparatus. 2,162,523; June 13.

Bochmann, Richard. (See Boguhn, P., and Bochmann.)

Bock Corporation. (See Bock, Oscar L., assignor.)

Bock, Oscar L., assignor to Bock Corporation, Madison, Wis. Oil burner. 2,162,571; June 13.

Bock, Oscar L., assignor to Bock Corporation, Madison, Wis. Oil burner ignition device. 2,162,572; June 13.

Boddinghouse, Emmons R., Chicago, Ill., assignor to Gas Tool Patents Corporation. Internal combustion tool. 2,162,416; June 13.

Bodine Corporation, The. (See Soderberg, Gustav A., assignor.)

Boguhn, Paul, Berlin, and R. Bochmann, Wittenberge, Potsdam, Germany, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Blind-stitching presser-foot for zig-zag sewing machines. 2,162,212; June 13.

Boldusoff, Fred J., Bridgeport, Conn. Dental floss holder. 2,162,240; June 13.

Bolster, John M., assignor to E. Traficante, Minneapolis, Minn. Accordian bellows lock. 2,162,054; June 13.

Bolton, Archer L., North Andover, assignor to John W. Bolton & Sons, Inc., Lawrence, Mass. Separator of special material for paper stock treating engines. 2,161,848; June 13.

Bolton, John W., & Sons, Inc. (See Bolton, Archer L., assignor.)

Borchers, William G., assignor to Autographic Register Company, Hoboken, N. J. Manifolding register. 2,162,193; June 13.

Bordo, Lambert J., Willow Grove, Pa. Water level sight gauge for boilers. 2,161,849; June 13.

Borg-Warner Corporation. (See Blood, H. E., and Potter, assignors.)

Borhek, Russell J., Washington, D. C. Stream bed protection means. 2,162,499; June 13.

Bornmann, Carl, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Adjustable tripod top. 2,161,909; June 13.

Bothe, Otto, Dusseldorf, Germany. Valve for tires and the like. 2,162,603; June 13.

Bower, Byron F., assignor to The Howell Company, St. Charles, Ill. Machine for surface finishing. 2,161,947; June 13.

Bowers, Earl E., Lebanon, and C. M. Tumey, Indianapolis, Ind. Rotary engine. 2,162,055; June 13.

Boyce, John P., assignor to H. Kratz, Newark, N. J. Fishing device. 2,162,241; June 13.

Boyles, David S., assignor to National Wire Goods Manufacturing Company, Rock Hill, S. C. Machine for making garment hangers of wire. 2,162,669; June 13.

Brace, Kemper P., South Bend, Ind., assignor to International Engineering Corporation, Chicago, Ill. Control mechanism. 2,162,343; June 13.

Brace, Porter H., Forest Hills, C. R. Hanna, Pittsburgh, and Kirk A. Oplinger, Verona, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermostatic control. 2,162,524; June 13.

Bracke, Robert F., Detroit, Mich. Carburetor. 2,162,056; June 13.

Brandt, Henry E., and C. Zwickey, assignors to Dobbins Manufacturing Company, St. Paul, Minn. Knapsack sprayer. 2,162,057; June 13.

Branower, William, New York, N. Y. Resuscitation apparatus. 2,162,242; June 13.

Brassert, H. A., & Company. (See Vreeland, George W., assignor.)

Breadner, Robert L., Kenton, and A. G. Pearce, North Wembley, England, assignors to General Electric Company. Gaseous electric discharge device. 2,162,546; June 13.

Breakey, George B., Brooklyn, N. Y., assignor to Tybrick Corporation. Building brick and wall. 2,162,417; June 13.

Breckel, Edward P. (See Miller, S. J., Sway and Breckel.)

Breerwood, Charles H., Narberth, Pa., assignor to Separation Process Company. Flotation of fine oxide ore minerals. 2,162,525; June 13.

Breitling, Ernst, Berlin-Tempelhof, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Locking means for levers. 2,161,850; June 13.

Brenner, Tod, Youngstown, Ohio. Exhaust scavenger. 2,161,895; June 13.

Brewer, Arthur S. (See Christie, L. M., Wanner and Brewer.)

Brewer-Titchener Corporation, The. (See Johannsen, Udo K., assignor.)

Brewer-Titchener Corporation, The. (See Wenn, Floyd D., assignor.)

Brickman, Alan E., and G. A. Gleason, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, Joint. 2,162,467; June 13.

Briles, Larkin, Chico, assignor of one-half to H. J. Coffee, Modesto, Calif. Fish screen. 2,162,325; June 13.

Bristol Company, The. (See Blodgett, Raymond S., assignor.)

British Acoustic Films Limited. (See Ruston, John, assignor.)

Brooks, Hamilton, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Power capacitor. 2,162,475; June 13.

Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)

Brown, Norman F., Hamilton, Scotland. Apparatus for raising natural oils and other liquids by gaseous pressure. 2,162,418; June 13.

Brown, Robert S. (See Barker, M. E., and Brown.)

Browne, Kenneth A., Saddle River, N. J., assignor to Wright Aeronautical Corporation. Automatic magneto coupling. 2,162,243; June 13.

Bruchfeld, Albert. (See Schneider, P., and Bruchfeld.)

Bruder, Edmund, Chicago, Ill. Smoking tube. 2,162,500; June 13.

Brush, Alanson P., Detroit, Mich. Boat. 2,162,058; June 13.

Bryan, Clare, Chicago, Ill., assignor to Link-Belt Company. Mold conveyer. 2,162,419; June 13.

Buchanan, Ferdinand C., assignor to A. A. Kramer, Kansas City, Mo. Combination tank and delivery body. 2,162,367; June 13.

Buchner, Hans. (See Krieger, W., and Buchner.)

Buckley, Timothy S., Jackson Heights, Long Island, N. Y. Making radiographs. 2,161,796; June 13.

Buckley, Timothy S., Jackson Heights, Long Island, N. Y. Plaque for X-ray machines. 2,162,420; June 13.

Budd Wheel Company. (See Eksergian, Carolus L., assignor.)

Buick, John A. (See Buyck, Jules A.)

Bull, Cabot S., Uxbridge, and W. S. Percival, Ealing, London, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electrical oscillation generator. 2,161,948; June 13.

Burk, Robert E., and E. C. Hughes, assignors to The Standard Oil Company (Ohio), Cleveland, Ohio. Removing sulphur compounds and sweetening hydrocarbon liquids. 2,162,670; June 13.

Burkhardt Company, The. (See Zerbe, Edward H., assignor.)

Burns, John S., Detroit, Mich., and A. N. Emmons, Nedrow, N. Y., assignors to The Porter-Cable Machine Company Inc., Syracuse, N. Y. Disk cutter. 2,161,994; June 13.

Burton-Dixie Corporation. (See Wesley, Arthur, assignor.)

Buyck, Jules A., Detroit, Mich., now by judicial change of name John Arlon Buick. Regulatable radiator ventilation for motor vehicles. 2,162,526; June 13.

Cahill, Arthur T., Weehawken, N. J. Speaker and listening device. 2,161,995; June 13.

Caln, Frank G. (See Ritterholz, Clifford E., assignor.)

Calcott, William S., Woodstown, N. J., and M. A. Youker, Gordon Heights, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coagulating dispersions. 2,161,949; June 13.

Caldwell, Harry F. (See Tuthill, H. B., and Caldwell.)

Callahan, Francis H., New Haven, Conn. Article of food. 2,161,910; June 13.

Calorider Corporation. (See Weiss, John M., assignor.)

Calvin, Conrad C., New York, N. Y. Method and apparatus for treating nails. 2,162,155; June 13.

Cambridge Rubber Co. (See Riley, Albert C., assignor.)

Camerino, Fremont, Niles, Ohio. Ventilator hood. 2,162,421; June 13.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication apparatus. 2,162,368; June 13.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,162,369; June 13.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,162,370; June 13.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,162,371; June 13.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,162,372; June 13.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,162,547; June 13.

Campbell, Wendell H., Lynn, Mass., assignor to General Electric Company. Meter sealing device. 2,162,548; June 13.

Canner's Machinery Limited. (See Doyle, James B., assignor.)

Capstan Glass Company. (See Piazzoli, Louis P., Jr., assignor.)

Caradine Hat Company. (See Witteoff, Edward, assignor.)

Carbide and Carbon Chemicals Corporation. (See Davidson, Joseph G., assignor.)

Carbide and Carbon Chemicals Corporation. (See Robertson, Harold F., assignor.)

Carborundum Company, The. (See Ball, Albert L., assignor.)

Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)

Carmody, William H., assignor to The Neville Company, Pittsburgh, Pa. Phenol-modified resins from crude solvent naphtha. 2,161,951; June 13.

Carnegie Institute of Technology. (See Kasehagen, L., and Lowry, assignors.)

Carr, Clifford E. (See Perkins, M. A., and Carr.)

Carter, Albert S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,161,797; June 13.

Carter, Albert S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,161,798; June 13.

Carter, Albert S., Wilmington, and H. W. Starkweather, New Castle County, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic polymerization of acetylene. 2,162,373; June 13.

Carter, Dannie M. (See Solomon, N. B., Jr., and Carter.)

Case, John D., Clinton, N. J. Milk tester. 2,162,156; June 13.

Case, J. I., Company. (See Larsen, Carl B., assignor.)

Casper, Anthony B., assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber for bicycles and similar type vehicles. 2,162,476; June 13.

Castberg, Thomas, Berkeley, Calif. Skiing surface. 2,161,799; June 13.

Catalyst Research Corporation. (See Bennett, Owen G., assignor.)

Celanese Corporation of America. (See Dreyfus, H. Finlayson, and Perry, assignors.)

Celanese Corporation of America. (See Finlayson, D., and Perry, assignors.)

Central Carton Company, The. (See Mahone, Thomas W., assignor.)

Central National Bank of Cleveland. (See Coil, Grover C., assignor.)

Chadwick, Lee S., Shaker Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Refrigerator tray loosening means. 2,162,244; June 13.

Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window sash construction. 2,161,996; June 13.

Chain Belt Company. (See Welser, Brinton, assignor.)

Challet, Etienne, Paris, France. Electric heating plate. 2,161,781; June 13.

Chambers, John E., Shelbyville, Ind. Gas burner. 2,162,374; June 13.

Chandler, Edward C., Cleveland, Ohio. Feeding means for washing machines. 2,162,277; June 13.

Chapman, Charles, Clackamas County, Oreg. Stovepipe. 2,161,997; June 13.

Chappell, Ralph R., Richmond, Va., assignor to Bendix Aviation Corporation, South Bend, Ind. Sensitive control device. 2,162,296; June 13.

Chase Bag Company, The. (See Scott, Douglas E., assignor.)

Chase, Ernest S. (See Berch, S. H., Ray, and Chase.)

Chedic, Walter C., Oakland, Calif. Binder composition. 2,162,059; June 13.

Chemical Process Company. (See Dole, R. A., and McBain, assignor.)

Chemische Forschungsgesellschaft, m. b. H. (See Herrmann, W. O., Deutsch, and von Zychlinski, assignors.)
Chicago Flexible Shaft Company. (See Kessel, Johannes B., assignor.)
Chicago Flexible Shaft Company. (See Musolf, Paul J., assignor.)
Chisholm, Harry L., Jr. (See McPherson, H. W., and Chisholm).
Chott, Edward L., Chicago, Ill. Mortar and pestle. 2,161,998; June 13.
Chrisman, Horace, Edgewood, assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Mechanical movement. 2,162,375; June 13.
Christensen, Carl J., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Deposition furnace. 2,161,950; June 13.
Christie, Llewellyn M., E. F. Wanner, and A. S. Brewer, assignors to National Fireproofing Corporation, Pittsburgh, Pa. Filter tile. 2,161,999; June 13.
Churchill, Willard W., Seattle, Wash. Anchored adjustable chair. 2,162,060; June 13.
Cianchi, Alfredo, London, England. Electric switch. 2,162,000; June 13.
Cincinnati Grinders Incorporated. (See Trible, Winthrop, assignor.)
Clark, Edward L., Elkhart, Ind. Baton. 2,162,157; June 13.
Clarke, Victor, Coral Gables, Fla. Precision condenser adjuster. 2,162,061; June 13.
Clemmons, Herbert D., assignor to Scovill Manufacturing Company, Sturgis, Mich. Siphonproof ball cock. 2,162,573; June 13.
Cleveland Welding Company, The. (See Jonas, Stephen P., assignor.)
Closmann, Adolf. (See Müller, W., and Closmann.)
Clow, Alfred C., Greenwich, London, assignor to N. Phillips, Emmer Green, near Reading, England. Securing of rail-chairs to sleepers. 2,162,604; June 13.
Cockerell, Christopher S., Danbury, Conn., assignor to Radio Corporation of America. Carrier wave modulator arrangement. 2,161,851; June 13.
Coey, Stewart C., Glen Ridge, N. J., assignor to Research Corporation, New York, N. Y. Air conditioning. 2,162,158; June 13.
Coffee, Henry J. (See Briles, Larkin, assignor.)
Coil, Grover C., Dayton, assignor, by mesne assignments, to Central National Bank of Cleveland, Cleveland, Ohio. Register locking mechanism. 2,162,605; June 13.
Cole, Edward N., assignor to General Motors Corporation, Detroit, Mich. Propeller shaft support vibration damper. 2,162,159; June 13.
Colgate-Palmolive-Peet Company. (See Heald, Robert F., assignor.)
Colgate-Palmolive-Peet Company. (See Meek, Eustace E., assignor.)
Collatz, Ferdinand A., St. Paul, Minn., assignor to General Mills, Inc. Cereal product and making the same. 2,162,376; June 13.
Collins, William D., and A. E. Nave, Evansville, Ind., assignors, by mesne assignments, to Servel, Inc., Dover, Del. Refrigerator. 2,161,852; June 13.
Colwill, Richard H., Chicago, Ill., assignor to United Autographic Register Co. Register casing door. 2,162,422; June 13.
Comstock, Daniel F., Lincoln, Mass., assignor, by mesne assignments, to Stator Corporation. Heating and cooling system. 2,162,245; June 13.
Comstock, James A., assignor to The Acme Electric & Manufacturing Company, Cleveland, Ohio. Combined transformer and illuminating device. 2,161,853; June 13.
Cone, Carroll, near Toledo, assignor to Surface Combustion Corporation, Toledo, Ohio. Glass annealing lehr. 2,162,377; June 13.
Cone, Carroll, near Toledo, assignor to Surface Combustion Corporation, Toledo, Ohio. Glass annealing lehr. 2,162,378; June 13.
Conger, Earnest J., assignor of fifteen per cent to R. H. Allen, fifteen per cent to C. Mitchell, fifteen per cent to W. Pearlman, and fifteen per cent to L. Massing, all of Crawfordsville, Ind. Wheel drive. 2,162,606; June 13.
Conill, Fernan O., New York, N. Y. Supporting device. 2,161,911; June 13.
Conn, Chester J., Smithtown Branch, N. Y. Freezing food products. 2,162,213; June 13.
Conn, Chester J., Smithtown Branch, N. Y. Treatment of food products. 2,162,214; June 13.
Connecticut Telephone and Electric Corporation. (See Curtiss, William R., assignor.)
Consolidated Steel Corp. (See Lyons, D. A., and Earl, assignors.)
Continental Motors Corporation. (See Meyer, Andre J., assignor.)
Cook, Willard G., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Tension control system. 2,162,527; June 13.
Cooley, Ralph M., and R. R. Rand, Jr., assignors to Traffiescope, Inc., Minneapolis, Minn. Vision apparatus. 2,162,160; June 13.
Cooper, Nelson C., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Safety device. 2,162,326; June 13.
Copell, Daniel K., New York, N. Y. Article holder. 2,161,854; June 13.
Copell, Daniel K., New York, N. Y. Support. 2,161,855; June 13.
Corbin, Douglas H., Dunstable, Mich., assignor to General Motors Corporation, Detroit, Mich. Manufacture of spark plugs. 2,162,062; June 13.
Cornell Securities Corporation. (See Lockhart, William, assignor.)
Cossin, Hursle E., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,161,912; June 13.
Cotant, Albert B., Pocatello, Idaho. Electric signal for motor vehicles. 2,162,161; June 13.
Cote, George H., Bridgeport, Conn. Adjustable drill chuck. 2,162,246; June 13.
Cox, Joseph H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric device. 2,162,477; June 13.
Cox, William F., Irving, Tex. Well pump. 2,162,001; June 13.
Coxhead, Ralph C., assignor to Ralph C. Coxhead Corporation, New York, N. Y. Ribbon mechanism. 2,161,856; June 13.
Coxhead, Ralph C., Corporation. (See Coxhead, Ralph C., assignor.)
Crawford, Frederick C., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Valve and making the same. 2,162,063; June 13.
Crighton, John, London, England, assignor to American Machine & Foundry Company, New York, N. Y. Supply of material in wrapping machines. 2,162,607; June 13.
Croft, George M., Vandergrift, assignor to Blaw-Knox Company, Pittsburgh, Pa. Annealing cover or the like. 2,161,779; June 13.
Crompton & Knowles Loom Works. (See Kronoff, Clarence R., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
Cross, Roy, Kansas City, Mo. Mining potash. 2,161,800; June 13.
Crouch, Reginald H. (See Pierpoint, A. J., and Crouch.)
Crown Cork & Seal Company. (See Austin, H. M., and Muir, assignors.)
Cunningham, Firmin M. (See Dunaway, U. C., and Cunningham.)
Curran, Maurice D., Glendale, Mo., assignor to Tar & Petroleum Process Company, Chicago, Ill. Treating coal. 2,162,064; June 13.
Curtiss, William R., assignor to Connecticut Telephone and Electric Corporation, Meriden, Conn. Switch mechanism. 2,162,528; June 13.
Curtiss-Wright Corporation. (See Page, George A., Jr., assignor.)
Cutler, Curtis D., Delaware, assignor to Automatic Traffic Counter Company, Inc., Columbus, Ohio. Traffic registering mechanism. 2,161,896; June 13.
Dachlauer, Karl. (See Flemming, W., Dachlauer, and Schultzler.)
Dahlberg, Alfred E., Chicago, Ill. Cutting compound. 2,162,297; June 13.
Dahlen, Ernst J. (See Westlund, K. W., and Dahlen.)
Dahler, August, Bronx, assignor of one-half to P. Band, New York, N. Y. Laundry ironing and pressing machine. 2,162,215; June 13.
Dailey, Carleton A., Penn Yan, N. Y. Table. 2,162,298; June 13.
Dain Manufacturing Company of Iowa. (See Jones, F. D., and Moschel, assignors.)
Daland, Elliot, Philadelphia, and H. A. Backus, Merion, Pa. Rotary wing aircraft. 2,161,801; June 13.
Dallinger, Wilbur J., Atlantic, Iowa. Paint advertising device. 2,162,065; June 13.
Davenport, James E., New York, N. Y., assignor to The New York Central Railroad Company. Locomotive sanding apparatus. 2,162,423; June 13.
Davidson, Joseph G., Scarsdale, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Branched chain octyl sulphates. 2,161,857; June 13.
Davis, Ellwood L., Oakland, Calif. Windshield wiper casing clamp. 2,162,002; June 13.
Davis, Lewis, Worcester, assignor to McLaurin-Jones Co., Brookfield, Mass. Adhesive. 2,162,194; June 13.
Davis, Winifred, Cleveland, Ohio. Shampoo mask. 2,162,608; June 13.
Dawe, Charles C., Chicago, Ill. Animal feed. 2,162,609; June 13.
Dawihl, Walther, Kohlhasenbruck, near Neubabelsberg, and Karl Schröter, Berlin, Germany, assignors to General Electric Company. Hard metal alloy. 2,162,574; June 13.
Dawson, John W., East McKeesport, and E. H. Vedder, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Photosensitive apparatus. 2,162,529; June 13.
Dawson, John W., Turtle Creek, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Welding apparatus. 2,162,530; June 13.
Dawson, Robert L., assignor to The Orr-Felt & Blanket Company, Piqua, Ohio. Fulling mill. 2,162,003; June 13.

Dean, Allison H., Portland, Oreg. Bathtub. 2,161,952; June 13.
Dean, James L., Andover, and E. Schmidt, Methuen, assignors to Lawrence Pump and Engine Co., Lawrence, Mass. Pumping apparatus. 2,162,247; June 13.
De Asis, Paul, Los Angeles, Calif. Submersible aircraft. 2,162,066; June 13.
De Eds, Floyd, San Francisco, Calif., C. W. Eddy, Pullman, Wash., and J. O. Thomas, San Francisco, Calif., assignors to H. A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office. Preparation of thionol. 2,162,686; June 13.
Defiance Sales Corporation. (See Linsner, Arthur F., assignor.)
De Ganahl, Carl, assignor to Fleetwings, Inc., Bristol, Pa. Fabric attaching cap strip for aircraft. 2,161,802; June 13.
Deinet, Joseph, Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthrimide-carbazole series. 2,162,196; June 13.
Delaney, Charles E., Gillespie, Ill. Scythe sharpener. 2,162,004; June 13.
Delaplane, Raymond C., Lakewood, Colo. Water control roller for offset presses. 2,162,248; June 13.
De Murguiondo, Jose H., assignor of one-fourth to A. de Murguiondo Riggs, one-fourth to N. von der Heide, and one-fourth to E. von der Heide, Washington, D. C. Quick freezing ice tray. 2,162,162; June 13.
Dennison Manufacturing Company. (See Asnes, Benjamin, assignor.)
De Ropp, Harald W., Charleston, W. Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ester interchange with organic acids. 2,162,451; June 13.
De Stubner, Emile C., Charleston, W. Va. Treating resinous bodies. 2,161,803; June 13.
Detroit Harvester Company. (See Floraday, Burton S., assignor.)
Detroit Harvester Company. (See Nicholson, Stanley W., assignor.)
Detroit Lubricator Company. (See Dillman, Earnest J., assignor.)
Deutsch, Hans. (See Herrmann, W. O., Deutsch, and von Zychlinski.)
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. (See Völkel, Walter, assignor.)
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. (See Wille, A., and Jaeger, assignors.)
Devonald, Ira R. (See Helms, J. C., and Devonald.)
Dewey, Clarence L. and S. L., assignors to Metal Tube Shaping Corporation, Elkhart, Ind. Machine for configuring tubes. 2,162,327; June 13.
Dewey, Clarence L. and S. L., assignors to Metal Tube Shaping Corporation, Elkhart, Ind. Forming tool for tube forming machines. 2,162,328; June 13.
Dewey, Sydney L. (See Dewey, Clarence L. and S. L.)
Diamond, Hymen, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gas-filled tube in which the current is limited. 2,162,478; June 13.
Dickeson, Lawrence G. (See Parrish, H., and Dickeson.)
Diebold Safe & Lock Co. (See Miller, William C., assignor.)
Dillman, Earnest J., assignor to Detroit Lubricator Company. Detroit, Mich. Transformer relay unit. 2,162,329; June 13.
Dinsmore, Clarence B. (See McKinley, C. W., Smith, and Dinsmore.)
Dinsmore, Horace R., Cambridge, Md. Forming mosaic or marquetry designs. 2,162,610; June 13.
Dinzl, Richard W., Narberth, Pa., assignor to Baldwin-Southwark Corporation. Hydraulic press. 2,161,804; June 13.
Dippel, Nicholas, Brooklyn, N. Y. Automatic fuse plug. 2,162,163; June 13.
Dixie Logging Tool Co. (See Stocker, William, assignor.)
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Direct lighting luminaire. 2,162,330; June 13.
Dobbins Manufacturing Company. (See Brandt, H. E., and Zwickey, assignors.)
Dodge, Lyman E., Morris Township, Morris County, assignor to Frank C. La Mar, Tucson, Ariz. Indicator. 2,162,197; June 13.
Doig, Albert F. (See Froyd, Lawrence W., assignor.)
Dole, Richard A., San Francisco, and J. W. McBain, Stanford University, assignors to Chemical Process Company, San Francisco, Calif. Separation of foam-forming constituents from liquids. 2,162,379; June 13.
Dooley, Norman C. (See Matthael, F. C., and Dooley.)
Dory, Arnold S., and E. F. Swazy, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Metal composition. 2,162,380; June 13.
Dough-King, Inc. (See Lagaard, Alexander S. T., assignor.)
Dove, John B., Atlanta, Ga., assignor of 49% to L. R. Muse. Manufacture and treatment of threads of artificial filaments. 2,162,575; June 13.
Doyle, James B., Simcoe, assignors to Canners Machinery Limited, Hamilton, Ontario, Canada. Sprocket. 2,161,913; June 13.
Draper Corporation. (See Tifft, Emerson B., assignor.)
Draper, Thomas, Millington, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control apparatus. 2,162,501; June 13.
Dreher, Harley M., Medina, Ohio. Bolting or clamping device. 2,162,611; June 13.
Dreyer, Floyd H., Indianapolis, Ind. Wheel banking device. 2,162,067; June 13.
Dreyfus, Henry, London, D. Finlayson and R. G. Perry, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of textiles and other materials. 2,161,805; June 13.
Du Bois Soap Company, The. (See Miller, S. J., Sway, and Breckel, assignors.)
Duell, Charles H. (See Duell, E. B., and Duell.)
Duell, Edith B. and C. H., Hartford, Conn. Measuring closure for containers. 2,162,068; June 13.
Duisburger Kupferhutte et al. (See Kuss, E. Emert, and Hake, assignors.)
Duisburger Kupferhutte et al. (See Kuss, E. Horalek, and Emert, assignors.)
Du Mont, Allen B., Laboratories, Inc. (See Goldsmith, Thomas T., Jr., assignor.)
Dunaway, Ulrich C., St. Louis, and F. M. Cunningham, Maplewood, assignors for James R. Kearney Corporation, St. Louis, Mo. Apparatus for imparting pull to electrical conductors. 2,162,069; June 13.
Dunaway, Ulrich C., St. Louis, and F. M. Cunningham, Maplewood, assignors for James R. Kearney Corporation, St. Louis, Mo. Apparatus for putting slack in anchoring assemblies of electrical conductors. 2,162,070; June 13.
Dunham, Le Roy S., East Orange, assignor to Edison-Splitdorf Corporation, West Orange, N. J. Magneto mounting means. 2,161,955; June 13.
Dunham, Le Roy S., East Orange, and A. F. Robertson, Belleville, assignors to Edison-Splitdorf Corporation, West Orange, N. J. Rotor for magneto electric generator. 2,161,953; June 13.
Dunham, Le Roy S., East Orange, and A. F. Robertson, Belleville, assignors to Edison-Splitdorf Corporation, West Orange, N. J. Magneto electric generator. 2,161,954; June 13.
Du Pont, E. I. de Nemours & Company. (See Beard, Earl E., assignor.)
Du Pont, E. I. de Nemours & Company. (See Calcott, W. S., and Youker, assignors.)
Du Pont, E. I. de Nemours & Company. (See Carter, Albert S., assignor.)
Du Pont, E. I. de Nemours & Company. (See Carter, A. S., and Starkweather, assignors.)
Du Pont, E. I. de Nemours & Company. (See Cooper, Nelson C., assignor.)
Du Pont, E. I. de Nemours & Company. (See Deinet, Joseph, assignor.)
Du Pont, E. I. de Nemours & Company. (See de Ropp, Harald W., assignor.)
Du Pont, E. I. de Nemours & Company. (See Hahn, Frederick C., assignor.)
Du Pont, E. I. de Nemours & Company. (See Izard, Emmette F., assignor.)
Du Pont, E. I. de Nemours & Company. (See Lacy, Burritt S., assignor.)
Du Pont, E. I. de Nemours & Company. (See Loder, Donald J., assignor.)
Du Pont, E. I. de Nemours & Company. (See Lulek, R. N., and Belcher, assignors.)
Du Pont, E. I. de Nemours & Company. (See Macallum, Alexander D., assignor.)
Du Pont, E. I. de Nemours & Company. (See Maxwell, Robert W., assignor.)
Du Pont, E. I. de Nemours & Company. (See Meiland, H. J., and Lulek, assignors.)
Du Pont, E. I. de Nemours & Company. (See Perkins, M. A., and Carr, assignors.)
Du Pont, E. I. de Nemours & Company. (See Scott, Norman D., assignor.)
Du Pont, E. I. de Nemours & Company. (See Warrington, Charles J. S., assignor.)
Du Pont Film Mfg. Corp. (See Marasco, M., and Merritt, assignors.)
Dürrler, Wilhelm, assignor to Lütz & Weiss G. m. b. H., Silber & Metallwarenfabrik, Pforzheim, Germany. Selective magazine pencil. 2,162,249; June 13.
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 2,161,914; June 13.
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 2,161,915; June 13.
Dustin, Howard M. (See Avery, H. T., and Dustin.)
Eagle Pencil Company. (See Schaefer, Max, assignor.)
Earl, Lloyd R. (See Lyons, D. A., and Earl.)
Eason, Clarence M., assignor to Industrial Clutch Company, Waukesha, Wis. Clutch. 2,162,071; June 13.
Ebert, Alton, Rittman, Ohio. Lips closing appliance for corpses. 2,162,612; June 13.
Eboli, John E., New York, assignor of one-half to W. T. Kniesner, Larchmont, N. Y. Packaging dresses and the like. 2,162,168; June 13.
Eddy, Clyde W. (See De Eds, F. Eddy, and Thomas.)
Edeleanu Gesellschaft, m. b. H. (See Terres, E., Moos and Ramser, assignors.)

Edison-Splitdorf Corporation. (See Dunham, Le Roy S., assignor.)
Edison-Splitdorf Corporation. (See Dunham, Le Roy S., and Robertson, assignors.)
Edison-Splitdorf Corporation. (See Robertson, Arthur F., assignor.)
Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)
Edwards, William F. M., Esher, assignor to Filter Tips Limited, London, England. Manufacture of cigarettes. 2,162,424; June 13.
Eggerss; Hans A., Van Wert, Ohio. Container. 2,162,396; June 13.
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Composite brake drum. 2,162,072; June 13.
Electric & Musical Industries Limited. (See Bull, C. S., and Percival, assignors.)
Electric & Musical Industries Limited. (See Hardwick, J., and White, assignors.)
Elliott, Harold E., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Slugging machine. 2,161,858; June 13.
Ellis, Carleton, Montclair, N. J., assignor to Ellis Laboratories, Inc. Quick-setting printing ink and making same. 2,162,331; June 13.
Ellis Laboratories, Inc. (See Ellis, Carleton, assignor.)
Elmire, Howard H., Arlington, N. J. Well drilling machine. 2,162,005; June 13.
Elser, William, Toledo, Ohio, assignor to Owens-Illinois Can Company. Extensible pouring spout. 2,162,452; June 13.
Elsner, Richard. (See Rebhan, J., and Elsner.)
Emert, Oskar. (See Kuss, E., Emert, and Hake.)
Emert, Oskar. (See Kuss, E., Horalek, and Emert.)
Emmens, Hendrik, and W. C. van Geel, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electrode system and making same. 2,162,613; June 13.
Emmons, Arthur N. (See Burns, J. S., and Emmons.)
Emrick, George W., Brooklyn, N. Y. Clutch mechanism for tapping attachments. 2,162,250; June 13.
Emrick, George W., Brooklyn, N. Y. Tapping attachment. 2,162,251; June 13.
Emulsol Corporation, The. (See Reynolds, Marvin C., assignor.)
Ensign Carburetor Co. Ltd. (See Westlund, K. W., and Dahlen, assignors.)
Erdmann, Konrad, Radenthein, Austria, assignor to American Magnesium Metals Corporation, Pittsburgh, Pa. Electric shaft furnace. 2,161,916; June 13.
Esberg, Alfred M. (See Pitt, H. M., Jr., and Esberg.)
Evans Products Company. (See Lintern, A. R., and Miller, assignors.)
Evans, Robert D., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ground-fault protection. 2,162,531; June 13.
Evans, Robert M., Des Moines, Iowa. Practice apparatus for football and like games. 2,162,073; June 13.
Evans, Walter B. (See Hoppes, E. F., Garratt, and Evans.)
Everson, Roy B., Chicago, Ill. Nonsiphoning swimming pool treatment system. 2,162,074; June 13.
Everwear Manufacturing Company, The. (See Hoppes, E. F., Garratt, and Evans, assignors.)
Evrell, Kaleb E., Eskilstuna, Sweden, assignor to Aktiebolaget Bolinder-Munktell. Log carriage. 2,162,299; June 13.
Ewald, Mark, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Bobbing device. 2,161,806; June 13.
Ewald, Mark, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Fruit cutting and discharging means. 2,161,807; June 13.
Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
Fairey Aviation Company Limited, The. (See Forsyth, A. G., and Smith-Pert, assignors.)
Farbenindustrie Aktiengesellschaft. (See Petersen, Karl W., assignor.)
Farrell, James L., and G. A. Ibach, Whittenburg, Tex., assignors to Phillips Petroleum Company, Bartlesville, Okla. Treatment of hydrocarbons. 2,162,300; June 13.
Faucht, Sherman E., New Orleans, La. Setting gauge for resilient rollers of printing presses. 2,162,425; June 13.
Febrey, Harold H., South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey. Installing rail bonds. 2,162,164; June 13.
Fernseh Aktiengesellschaft. (See Schwartz, E., and Wellmann, assignors.)
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Detachable electrical connector. 2,162,453; June 13.
Filby, Carlton W., Jefferson, Ohio. Marine anchor. 2,161,906; June 13.
Filter Tips Limited. (See Edwards, William F. M., assignor.)
Finlayson, Donald. (See Dreyfus, H., Finlayson, and Perry.)
Finlayson, Donald, and R. G. Perry, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of textile materials. 2,161,808; June 13.
First National Bank of Chicago, et al., executors. (See Reynolds, Marvin C.)
Fisch, Willi. (See Widmer, G., Fisch, and Jakl.)
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Construction material. 2,162,687; June 13.
Fisher, Lawrence E. (See Frank, W. H., and Fisher.)
Fitzpatrick, Jeremiah J., Oklahoma City, Okla. Combined sucker rod coupling and guide. 2,162,426; June 13.
Fleetwings, Inc. (See de Ganahl, Carl, assignor.)
Flemming, Walter, Ludwigshafen-on-the-Rhine, K. Dachlauer, Hofheim-in-Taunus, and E. Schnitzler, Frankfort-on-the-Main-Hochst, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of ethyl chloride. 2,162,532; June 13.
Flickinger, Dale B., assignor to The Belflex Corporation, Toledo, Ohio. Vehicle shackle. 2,162,479; June 13.
Floraday, Burton S., Toledo, Ohio, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Window regulator mechanism. 2,162,075; June 13.
Flower, David B., Philadelphia, Pa. Pipe hanger. 2,161,782; June 13.
Foley, L. L. (See Long, Jon R., assignor.)
Food Machinery Corporation. (See Halt, James M., assignor.)
Food Machinery Corporation. (See Kerr, Charles E., assignor.)
Food Machinery Corporation. (See Paxton, Gerald C., assignor.)
Forbes, Allan D., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cover clamp. 2,162,480; June 13.
Ford Motor Company. (See Zoerlein, Emil, assignor.)
Forsyth, Archibald G., and G. J. Smith-Pert, Cheam, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Varying the pitch of propeller blades, especially aircraft propeller blades. 2,161,917; June 13.
Fouts, Thurston R. (See Kienel, F. J., and Fouts.)
Fox Products Company. (See Peirce, Daniel H., assignor.)
Franck, Ernest W., Paterson, N. J., and H. E. Reeves, New York, N. Y. Phonograph. 2,162,006; June 13.
Frank, William H., and L. E. Fisher, Detroit, Mich. Panel boards and parts thereof. 2,162,344; June 13.
Frankford, Frank P., Ridgefield Park, N. J. Automatic drain valve for compressed air reservoirs. 2,162,549; June 13.
Frankford, Frank P., Ridgefield Park, N. J. Air cleaner. 2,162,550; June 13.
Franks, Roye W., Salt Lake City, Utah. Draft control device. 2,161,809; June 13.
Fraser, John, assignor to Avery-Hardoll Limited, London, England. Improvements relating to registering mechanisms. 2,161,918; June 13.
Fraser, John, assignor to Avery-Hardoll Limited, London, England. Improvements relating to registering mechanisms. 2,161,919; June 13.
Fraser, John, assignor to Avery-Hardoll Limited, London, England. Liquid measuring and dispensing apparatus. 2,161,920; June 13.
Frick, Carl E., assignor, by mesne assignments, to Van Cleef Bros., Chicago, Ill. Sand blasting stencil. 2,162,332; June 13.
Frimand, Emilie, administratrix. (See Frimand, Peter A.)
Frimand, Peter A., deceased; E. L. Frimand, administratrix, Wilmette, Ill. Breast pump device. 2,162,076; June 13.
Fritzen, Carl, Seymour, Ind. Airplane glider. 2,161,921; June 13.
Froyd, Lawrence W., Arlington, Va., assignor to A. F. Dolg, Washington, D. C. Printing mechanism. 2,162,427; June 13.
Fry, Clovis L., and R. W. Leslie, El Dorado, Kans., assignors to Skelly Oil Company, Tulsa, Okla. Device for standardizing thermometers and other temperature measuring instruments. 2,162,614; June 13.
Fry, Wilbur C., New York, N. Y. Trailer coupler. 2,162,481; June 13.
Fuller, Everett W. (See Moran, R. C., James, and Fuller.)
Fulton Company, The. (See Thorp, J. R., and Marsh, assignors.)
G-M Laboratories, Inc. (See Van Guilder, Walter, assignor.)
Gabel, John E., Ashland, Pa. Shaping tool. 2,162,165; June 13.
Galeazzo, Leopold F., Brooklyn, N. Y. Puzzle or educational toy. 2,162,278; June 13.
Galton, Landon C., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Display stand. 2,162,576; June 13.
Gambino, Michael, Philadelphia, Pa. Violin string tensioning device. 2,162,007; June 13.
Gano, Harlan S., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,162,577; June 13.
Ganswindt, Hartmut. (See Matthies, K. and Ganswindt.)
Gardner-Denver Company. (See Pearson, Gustav C., assignor.)

Garratt, Fred C., Jr. (See Hoppes, E. F., Garratt, Jr., and Evans.)
Gas Tool Patents Corporation. (See Boddinghouse, Emmons R., assignor.)
Geffcken, Heinrich H., Berlin, and H. R. Richter, Leipzig, Germany. Photoelectric tube. 2,161,859; June 13.
General Electric Company. (See Bauerschmidt, Kuno, assignor.)
General Electric Company. (See Benander, G. B., and Schwabacher, assignors.)
General Electric Company. (See Bixler, Harley H., assignor.)
General Electric Company. (See Breadner, R. L., and Pearce, assignors.)
General Electric Company. (See Campbell, Wendell H., assignor.)
General Electric Company. (See Dawihl, W., and Schröter, assignors.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Krefft, H., Hänlein and Wagner, assignors.)
General Electric Company. (See Newman, Delbert F., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Rich, Theodore A., assignor.)
General Electric Company. (See Wyman, LeRoy L., assignor.)
General Electric Company. (See Zecher, Gustav, assignor.)
General Mills, Inc. (See Colatz, Ferdinand A., assignor.)
General Motors Corporation. (See Albinson, Harold H., assignor.)
General Motors Corporation. (See Cole, Edward N., assignor.)
General Motors Corporation. (See Corbin, Douglas H., assignor.)
General Motors Corporation. (See Hazen, Ronald M., assignor.)
General Motors Corporation. (See McKinley, C. W., Smith, and Dinsmore, assignors.)
General Motors Corporation. (See Pontis, W. G., and Kindl, assignors.)
General Motors Corporation. (See Rabezzana, Hector, assignor.)
General Motors Corporation. (See Tell, William J., assignor.)
General Railway Signal Company. (See Field, Oscar S., assignor.)
General Railway Signal Company. (See Reichard, Wade H., assignor.)
Gentsch, Erich, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Means to secure electric lines to a support. 2,161,860; June 13.
Gerlough, Tillman D., Highland Park, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Fractionation of proteinaceous fluids. 2,161,861; June 13.
Germanson, Herbert M., Milwaukee, Wis. Insole. 2,162,468; June 13.
Giese, Lawrence F., Hales Corners, assignor to Line Material Company, South Milwaukee, Wis. Lighting unit. 2,161,957; June 13.
Gilliam, Lawrence M., assignor of 15% to D. E. Lyon, San Anselmo, Calif. Tobacco cartridge. 2,162,077; June 13.
Gillis, Joseph P. (See Hobstetter, C. A., and Gillis, and Milton.)
Gilpin, Garth G., Riverside, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Refrigerator car floor. 2,162,078; June 13.
Gilson, Arthur G., assignor to Mitchell Manufacturing Company, Fort Smith, Ark. Folding bed. 2,161,958; June 13.
Gleason, George A. (See Brickman, A. E., and Gleason.)
Gleason, George A., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Post. 2,162,301; June 13.
Glemby Company, The. (See Kapelman, Felix, assignor.)
Globe-Wernicke Company. (See Schmitz, Fred A., assignor.)
Goldberger, Arthur, Vienna, Austria, assignor to A. Liebling, Rockford, Ill. Pocket pyrophoric lighter. 2,162,345; June 13.
Goldblum, Henry. (See Richter, J. L., and Goldblum.)
Golden, Albert, assignor to Interstate Metal Products Company, Chicago, Ill. Metal cabinet door. 2,162,333; June 13.
Golden, Louis J., Highland Park, assignor to B and B Shoe Company, Chicago, Ill. Footwear. 2,162,008; June 13.
Goldman, Moses, Brooklyn, N. Y. Novel card game. 2,162,428; June 13.
Goldsmith, Thomas T., Jr., Montclair, assignor to Allen D. Du Mont Laboratories, Inc., Upper Montclair, N. J. Cathode ray cyclographic bridge balance indicator. 2,162,009; June 13.
Gompers, Lewis, trustee. (See Ashley, Frank M., assignor.)
Goode, Ronald B., Shreveport, La. Hydraulic pump jack or head. 2,161,922; June 13.
Goodstein, Charles B., Brooklyn, N. Y. Stapling and device therefor. 2,161,810; June 13.
Gorrien, John, Minneapolis, Minn. Clock with attachment. 2,162,166; June 13.
Goulard, Alexander, Westfield, N. J. Insect trap. 2,162,502; June 13.
Grabowski, Gustav. (See Grabowski, Herman and G.)
Grabowski, Herman and G. Grabowski, Cedar Grove, Wis. Molding machine. 2,162,079; June 13.
Graham, George M., Detroit, assignor to Hinckley-Myers Company, Jackson, Mich. Apparatus for testing the headlights of motor vehicles. 2,162,010; June 13.
Gray, Donald E., Teaneck, N. J. Electrolyte and method. 2,162,397; June 13.
Gray Tool Company. (See Mueller, Robert A., assignor.)
Grebe, John J., Midland, Mich. Shock absorber. 2,161,811; June 13.
Green, Aaron S., et al. (See Hunsicker, Clyde L., assignor.)
Green, John H., Little Rock, Ark. Illuminated guide line. 2,162,302; June 13.
Greensfelder, Bernard S., and M. E. Spaght, Martinez, assignors to Shell Development Company, San Francisco, Calif. Refining hydrocarbon oils. 2,162,195; June 13.
Gregory, Sherlie E., Aurora, assignor to The Heyer Corporation, Chicago, Ill. Inking mechanism for duplicating machines. 2,162,346; June 13.
Greterman, Lambert L., Santa Monica, Calif. Automatic bolt-up device. 2,162,167; June 13.
Gretler, Otto, Zurich, Switzerland, assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Apparatus for continuously feeding a web of fabric in open state into a treating liquid. 2,161,812; June 13.
Grenlich, Gerald G., Mount Lebanon, Pa. Self-tightening clip for applying sheathing to metallic members. 2,162,303; June 13.
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Automatic air valve with swing check and back pressure control. 2,161,813; June 13.
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Air valve. 2,162,671; June 13.
Gross, Court, assignor to Motorakticselskapet av 1935, Oslo, Norway. Internally cooled valve for combustion engines. 2,162,304; June 13.
Grossman, Benjamin. (See Grossman, Nathan, assignor.)
Grossman, Cornell J., Milburn, N. J. Dental casting alloy. 2,162,252; June 13.
Grossman, Cornell J., Milburn, N. J. Dental casting alloy. 2,162,253; June 13.
Grossman, Nathan, Reading, Pa., assignor to Benjamin Grossman, New York N. Y. Collapsible shipping container. 2,162,169; June 13.
Gruenke, Ronald E., Michigan City, Ind. Testing device. 2,162,429; June 13.
Guinot, Henri M., Melle, Deux-Sevres, France, assignor to Les Usines de Melle. Dehydrogenation of saturated hydrocarbons. 2,162,011; June 13.
Gunn, Daniel R., Jr., assignor to U. S. Bedding Company, Memphis, Tenn. Studio couch. 2,162,503; June 13.
Guth, Frederick A., Denver, Ohio. Swinging closure mounting. 2,162,381; June 13.
Guthmann, Walter S., Chicago, Ill., assignor to Production Oil Products, Inc. Cutting compound. 2,162,454; June 13.
Haas, Frank C., Wyandotte, Mich., assignor, by mesne assignments, to Archer-Daniels-Midland Company, Minneapolis, Minn. Lubricant. 2,162,398; June 13.
Haberstump, Alfred H., Detroit, Mich., assignor to The Murray Corporation of America. Convertible top for vehicle bodies. 2,162,347; June 13.
Hacker, Louis P., Overton, Tex. Snatch block. 2,162,080; June 13.
Hacker, Marcus L., Houston, Tex. Core barrel operated float valve. 2,162,578; June 13.
Hacmac, Edward R., Hollywood, Calif., assignor to Na-Mac Products Company. Liquid dispenser and mixer. 2,162,348; June 13.
Hadley, Donald L., and E. H. Lockwood, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lighting unit for ranges. 2,162,504; June 13.
Hage, Walter, assignor of one-half to H. M. Anderson, Hillsboro, N. Dak. Platform mount and lift for windrowers. 2,161,814; June 13.
Hahn, Frederick C., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,161,815; June 13.
Halt, James M., Los Angeles, Calif., assignor to Food Machinery Corporation. Method and apparatus for protecting pump bearings. 2,161,862; June 13.
Hake, Andreas. (See Kuss, E., Emert, and Hake.)
Halgar, Inc. (See Hall, Frank G., assignor.)
Hall, Frank G., assigno to Halgar, Inc., Chicago, Ill. Permanent wave apparatus. 2,162,081; June 13.
Halliburton Oil Well Cementing Company. (See Robidoux, Finley T., assignor.)
Hänlein, Walter. (See Krefft, H., Hänlein, and Wagner.)
Hanna, Clinton R. (See Brace, P. H., Hanna, and Oplinger.)
Hanna, Clinton R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulator with gyroscopic antihunting. 2,162,482; June 13.

Harbeke, Louis N., Sacramento, Calif. Lavatory ventilator. 2,161,863; June 13.
Hardwick, John, West Drayton, Middlesex, and E. L. C. White, Hillingdon, Middlesex, assignors to Electric & Musical Industries Limited, Middlesex, England. Intervalve coupling and like circuit. 2,161,959; June 13.
Hargroves, Willis W., assignor to Planters Manufacturing Company, Inc., Portsmouth, Va. Basket cover and fastener. 2,162,305; June 13.
Harlan, George E., Indianapolis, Ind. Soldering tool. 2,162,615; June 13.
Haris, Ford W., assignor to Patco, Inc., Los Angeles, Calif. Pipe tongs. 2,162,216; June 13.
Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Automatic control system. 2,162,469; June 13.
Hartley, Hugh L. (See Middleton, Orrie C., assignor.)
Haseltine, Stacy B., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Floor rack. 2,161,923; June 13.
Hawley, Thomas G., Jr., Naugatuck, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Making elastic fabric. 2,162,551; June 13.
Hayes, Arthur D., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Bicycle saddle. 2,162,399; June 13.
Hazard, Charles S., New York, N. Y., assignor to Neptune Meter Company. Liquid measuring device. 2,162,254; June 13.
Hazen, Ronald M., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Liquid cooling means for internal combustion engines. 2,162,082; June 13.
Heald, Robert F., Nutley, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 2,162,255; June 13.
Heath, Emery A., Olympia, Wash. Removable motor mount and adapter for mixers, churns, and the like. 2,162,400; June 13.
Hedfield, Reynold T., assignor to Jas. P. Marsh Corporation, Chicago, Ill. Gauge adjusting means. 2,162,306; June 13.
Heeman & Froude Limited. (See Walker, George H., assignor.)
Hefti, Hans, Neenah, assignor to The Appleton Coated Paper Company, Appleton, Wis. Paper handling mechanism. 2,162,430; June 13.
Heim, Oscar, East Hempstead, N. Y. Bellows-operated reed instrument. 2,162,382; June 13.
Helms Concrete Pipe Company. (See Helms, J. C., and Devonald, assignors.)
Helms, Jay C., and I. Richard Devonald, assignors to Helms Concrete Pipe Company, Inc., Alexandria, Va. Pipe joint. 2,162,431; June 13.
Hennessy, James J., New York, N. Y. Journal lubricator. 2,162,383; June 13.
Herchenrider, Henry R., Pittsburgh, Pa., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Method of and apparatus for grinding and polishing. 2,162,279; June 13.
Hermson, John H. (See Pierce, H. M., and Hermson.)
Herrin, Harrison M., Kansas City, Kans. Combination range and table. 2,162,012; June 12.
Herrington, Arthur W., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Continuous-track tractor. 2,162,198; June 13.
Herrington, Arthur W., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Power shaft unit for four-wheel drive. 2,162,334; June 13.
Herrmann, Richard, and T. Skutta, Vienna, Austria. Control arrangement for refrigerators. 2,162,256; June 13.
Herrmann, Willy O., Deisenhofen, and H. Deutsch, and B. von Zychlinski, assignors to Chemische Forschungsgesellschaft m. b. H., Munich, Germany. Manufacture of artificial resins. 2,162,616; June 13.
Herschede, William F. (See Woodruff, W. N., Toce, and Herschede.)
Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,161,864; June 13.
Hewell, Horst. (See Roosenstein, H. O., and Hewel.)
Heyer Corporation, The. (See Gregory, Sherlie E., assignor.)
Heywood-Wakefield Company. (See Larsen, Lewis, assignor.)
Hickok Manufacturing Company. (See Valsey, Harold C., assignor.)
Hicks, Raymond M., Plainfield, N. J., and E. R. Leroy, assignors to The Teleregister Corporation, New York, N. Y. Decoder. 2,162,170; June 13.
Higgins, Ralph, Akron, assignor to The Ohio Brass Company, Mansfield, Ohio. Insulation testing. 2,162,280; June 13.
Higham, William W., Detroit, and S. H. Morse, Dearborn, assignors to Universal Cooler Corporation, Detroit, Mich. Evaporator. 2,162,083; June 13.
Hilbers, Johann, Oldenburg-Etzhorn, Germany. Production of yeast. 2,162,217; June 13.
Hill, Henry C., Paterson, N. J., assignor to Wright Aeronautical Corporation. Oil seal. 2,162,218; June 13.
Hillberg, Bror, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Band clamp. 2,162,349; June 13.
Hillhouse, Charles B., assignor to S. R. Hillhouse, New York, N. Y. Burning oil as gas. 2,162,432; June 13.
Hillhouse, Charles B., assignor to S. R. Hillhouse, New York, N. Y. Producing gasoline. 2,162,433; June 13.
Hillhouse, Sylvia R. (See Hillhouse, Charles B., assignor.)
Hilliard Corporation, The. (See La Brecque, Theodore A., assignor.)
Hillyer, Laurence D., Brownwood, Tex. Agricultural machine. 2,162,434; June 13.
Hinekley-Myers Company. (See Graham, George M., assignor.)
Hintze, Rudolf, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Refrigerating apparatus of the compression type. 2,161,960; June 13.
Hirschberg, Charles A., Mountain Lakes, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Portable drilling rig. 2,162,552; June 13.
Hirschberg, Charles A., Mountain Lakes, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Portable drilling rig. 2,162,553; June 13.
Hobstetter, Charles A., and J. P. Gillis, Martins Ferry, Ohio, and A. L. Milton, Wheeling, W. Va., assignors to Wheeling Steel Corporation, Wheeling, W. Va. Burner construction. 2,161,865; June 13.
Hoecker, Albert C., St. Louis, Mo. Parking device. 2,162,257; June 13.
Hoffman, Rudolph, Rocky River, Ohio. Trimming wicks. 2,162,401; June 13.
Hoffman, Rudolph, Rocky River, Ohio, assignor to American Stove Company, St. Louis, Mo. Room heater. 2,162,084; June 13.
Hofmann, Alfred, & Company. (See Trutner, Donald G., assignor.)
Hogan, Sidney J., Chattanooga, Tenn. Ashpan. 2,162,579; June 13.
Hoge, John R., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Bottle closure. 2,162,455; June 13.
Hohnhorst, Ferdinand J., Covington, Ky. Abrading wheel. 2,162,013; June 13.
Holmes, Dobbin, Cordele, Ga. Heel bolt. 2,162,171; June 13.
Hönel, Herbert, Vienna, and A. Zinke, Graz, Austria, assignors to H. Reichhold, Detroit, Mich., doing business as Reichhold Chemicals. Condensation products of the phenol-formaldehyde type. 2,162,172; June 13.
Hopkins, Eugene, Elkhart, Ind. Burial vault. 2,162,435; June 13.
Hopkins, Llewellyn, Butler, Pa. Sheet-handling apparatus. 2,162,580; June 13.
Hopkinson, Russell, and A. V. Tolstoouhov, assignors to Ostro Research Laboratories Inc., New York, N. Y. Antiseptic and making it. 2,162,014; June 13.
Hoppenstedt, Alfred W., assignor to J. A. Webb Belting Co., Inc., Buffalo, N. Y. Preservation of tanned leather. 2,162,015; June 13.
Hoppes, Edwin F., F. C. Garratt, Jr., and W. B. Evans, assignors to The Everwear Manufacturing Company, Springfield, Ohio. Basketball backstop apparatus. 2,162,085; June 13.
Horalek, Kurt. (See Kuss, E., Horalek, and Emert.)
Hörnemann, Kurt, Essen, Germany. Running a blast furnace. 2,162,402; June 13.
Hosiery Patents Incorporated. (See Weisbecker, Frank G., assignor.)
Houdaille-Hershey Corporation. (See Sandberg, R. A., and Van Sickel, assignors.)
Houde Engineering Corporation. (See Casper, Anthony B., assignor.)
Houde Engineering Corporation. (See McPherson, H. W., and Chisholm, assignors.)
Houde Engineering Corporation. (See Peo, Ralph F., assignor.)
Howard, Charles W., Franklin, assignor to The Black-Clawson Company, Hamilton, Ohio. Paper making apparatus. 2,162,403; June 13.
Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging and weighing machine. 2,162,219; June 13.
Howat, Clarence W., Pittsburgh, Pa. Car truck side frame. 2,162,307; June 13.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Photographic film treating apparatus. 2,162,016; June 13.
Howell Company, The. (See Bower, Byron F., assignor.)
Huber, John (Jack), Cincinnati, Ohio. Two-way test and waste plug. 2,161,783; June 13.
Huckins, Arthur S., Philadelphia, Pa. Printing press. 2,161,866; June 13.
Hudson, Charles J., Eldorado, Kans. Pitman or like machine element. 2,162,436; June 13.
Hughes, Everett C. (See Burk, R. E., and Hughes.)
Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Cathode for electron discharge devices. 2,162,661; June 13.
Hultin, Oscar H., assignor to Pneumatic Scale Corporation, Quincy, Mass. Paper bag. 2,162,258; June 13.
Hummon, Cyrus, Miami, Fla. Eye testing instrument. 2,162,617; June 13.
Humphrey, George T., Dallas, assignor to Republic Supply Company, Houston, Tex. Pumping unit for wells. 2,161,961; June 13.

Hunsicker, Clyde L., assignor of one-half to A. S. and M. I. Green, San Francisco, Calif. Instrument supporting device. 2,161,962; June 13.
Huntington, Levin B., Jr., Baltimore, Md. Adjustable crank structure. 2,162,173; June 13.
Hydraulic Brake Company. (See Oliver, Wallace F., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Baehr, Hans, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Flemming, W., Dachlauer, and Schnitzler, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kiesskalt, S., Tampke, Winnacker, and Weingaertner, assignors.)
I. G. Farbenindustrie Aktiengesellschaft et al. (See Kuss, E., Horalek, and Emert, assignors.)
I. S. M. Limited. (See Sandor, Nicholas and F. E. L., assignors.)
Ibach, Gerald A. (See Farrell, J. L., and Ibach.)
Ice Cooling Appliance Corporation. (See Swanson, Wilburn H., assignor.)
Ideal Electric and Manufacturing Company, The. (See Milliken, Frank H., assignor.)
Ilische, Arthur, Rye, N. Y. Beating and mixing device. 2,162,017; June 13.
Imperial Chemical Industries Limited. (See Knight, Arthur H., assignor.)
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Cam-lapping machine. 2,162,662; June 13.
Industrial Clutch Company. (See Eason, Clarence M., assignor.)
Inge, Melvin C., Brea, Calif. Blow-out preventer. 2,162,018; June 13.
Ingersoll-Rand Company. (See Smith, William A., Sr., assignor.)
International Engineering Corporation. (See Brace, Kemper P., assignor.)
Interstate Metal Products Company. (See Golden, Albert, assignor.)
Interwoven Stocking Company. (See Miller, J. H., Thurston, and Poole, assignors.)
Ivers-Lee Company. (See Saifsberg, Leroy L., assignor.)
Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating metal. 2,162,618; June 13.
Jack, Julius F., Newark, N. J. Thermostatic valve. 2,161,924; June 13.
Jackes-Evans Manufacturing Company. (See Mange, Clarence E., assignor.)
Jacob, Frederick N., assignor to Johnson Laboratories, Inc., Chicago, Ill. Vacuum tube sweep circuit. 2,162,335; June 13.
Jacobs, F. L., Co. (See Visser, John, assignor.)
Jacobstein, Hyman, New Rochelle, N. Y. Individual cigar box. 2,161,816; June 13.
Jaeger, Gustav. (See Wille, A., and Jaeger.)
Jaeger Machine Company, The. (See Mosel, Joseph H., assignor.)
Jagschitz, Konrad, Mainz, assignor to Machinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Germany. Gas holder without dead space. 2,161,817; June 13.
Jakl, Josef. (See Widmer, G., Fisch, and Jakl.)
Jakosky, John J., Los Angeles, Calif. Method and apparatus for electrical exploration of the subsurface. 2,162,086; June 13.
Jakosky, John J., Los Angeles, Calif. Method and apparatus for electrical exploration of the subsurface. 2,162,087; June 13.
James, Robert F., Mahwah, N. J., and E. B. Baker, Detroit, Mich., assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Radiating apparatus. 2,162,505; June 13.
James, William H. (See Moran, R. C., and James.)
James, William H. (See Moran, R. C., James, and Fuller.)
Jenny, Cletus J., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Diaphragm device. 2,162,308; June 13.
Jessen, John D., O'Hara Township, Allegheny County, assignor to Blaw-Knox Company, Blawnox, Pa. Movable form for dams or the like. 2,162,220; June 13.
Johannsen, Udo K., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Folding table leg latch. 2,162,672; June 13.
Johnson, Charles, Detroit, Mich. Combination shoe last and presser. 2,162,554; June 13.
Johnson, Eric R., Malden, assignor to C. F. Berg, Boston, Mass. Dust removing apparatus. 2,162,019; June 13.
Johnson, Evar, assignor to E. A. Morsbach, Rockford, Ill. Hydrometer. 2,162,020; June 13.
Johnson, George A., assignor to W. H. Miner, Inc., Chicago, Ill. Rail anchor. 2,161,925; June 13.
Johnson Laboratories, Inc. (See Jacob, Frederick N., assignor.)
Johnson, Philip C., and C. M. Stacey, assignors to Willys-Overland Motors, Inc., Toledo, Ohio. Door latch. 2,162,673; June 13.
Johnstone, Charles A., assignor to Pacific Can Company, San Francisco, Calif. Compound drier for coated disks. 2,162,336; June 13.
Jonas, Gottfried B., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Manufacturing permanent magnets. 2,161,926; June 13.
Jonas, Stephen P., assignor to The Cleveland Welding Company, Cleveland, Ohio. Steering wheel. 2,162,088; June 13.
Jones, Frank D., and H. Moschel, assignors to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side delivery rake. 2,162,506; June 13.
Jones, Leo D., assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal separator. 2,162,199; June 13.
Jones, Roy W., Hialeah, Fla. Automatic protector against overheating and lack of oil or oil pressure. 2,162,174; June 13.
Jones, Tom A., et al. (See Reynolds, Bennie S., assignor.)
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. 2,161,818; June 13.
Junghans, Helmut, Schramberg-Sulgen, Wurtemberg, Germany. Movable dustproof bush for winding keys. 2,162,309; June 13.
Junkers-Flugzeug- und-Motorenwerke Aktiengesellschaft. (See Wolf, Erich, assignor.)
K and R Manufacturing Company, The. (See Kurpiewski, Felix, assignor.)
Kagen, Kenneth S., assignor to Keystone Paper Box Company, Incorporated, York, Pa. Article container. 2,162,089; June 13.
Kalle & Co. Aktiengesellschaft. (See Krieger, W., and Buehner, assignors.)
Kapelman, Felix, Bronx, assignor to The Glemby Company, Inc., New York, N. Y. Comb and brush set. 2,162,581; June 13.
Kapteyn, Paul, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Universal receiver without transformer. 2,162,350; June 13.
Kasehagen, Leo, and H. H. Lowry, assignors to Carnegie Institute of Technology, Pittsburgh, Pa. Treatment of coal. 2,162,221; June 13.
Kaster, Howard B., Alameda, Calif. Device and method for determining upper air wind direction and velocity. 2,162,582; June 13.
Katz, Morris, Bronx, N. Y. Cellulosic cord. 2,161,819; June 13.
Kautter, Wolfgang, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Regenerative circuit arrangement. 2,162,470; June 13.
Kearney, James R., Corporation. (See Dunaway, U. A., and Cunningham, assignors.)
Kelley, J. E., et al. (See Morrison, Willie C. L., assignor.)
Kelley, W. F., et al. (See Morrison, Willie C. L., assignor.)
Kelsey-Hayes Wheel Company. (See Main, Frank L., assignor.)
Kelsey-Hayes Wheel Company. (See Sawtelle, Charles A., assignor.)
Kelsey-Hayes Wheel Company, The. (See Sinclair, Charles W., assignor.)
Kennedy, Dewey M., Rochester, N. Y. Infant's bathing device. 2,162,483; June 13.
Kennedy, William D., West Englewood, N. J., assignor to Wright Aeronautical Corporation. Engine oil scavenging device. 2,162,259; June 13.
Kenney Manufacturing Company. (See Kenney, William C., assignor.)
Kenney, William C., assignor to Kenney Manufacturing Company, Cranston, R. I. Curtain rod. 2,162,674; June 13.
Kenny, William F., Company, The. (See Scott, Paul H., assignor.)
Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Filling valve. 2,162,404; June 13.
Kessel, Johannes B., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Agitator for food mixers. 2,161,867; June 13.
Kessenich, Gregory J., Madison, Wis. Shock absorbing device. 2,161,820; June 13.
Keystone Paper Box Company. (See Kagen, Kenneth S., assignor.)
Khatunzeff, Serge, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Apparatus for shaping tubes, shells, or the like. 2,161,963; June 13.
Kidwell, Grover C., Madison, Ind. Heated mattress. 2,162,021; June 13.
Kienel, Frederick J., and T. R. Fouts, Acworth, Ga. Knitting machine. 2,161,868; June 13.
Kiesskalt, Siegfried, H. Tamke, K. Winnacker, and E. Weingaertner, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing dispersions of coal and oil. 2,162,200; June 13.
Kindl, Carl H. (See Pontis, W. G., and Kindl.)
King, Clarence D., Brooklyn, N. Y. Making steel. 2,162,437; June 13.
King, Dean W., San Mateo, Calif. Adjustable gun sight. 2,162,090; June 13.
Kjellsson, Gustav, Brooklyn, N. Y. Nasal passage filter. 2,162,583; June 13.
Klein, Paul, Berlin, and K. Wulsten, Berlin-Charlottenburg, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,162,534; June 13.
Klemperer, Hans, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric converter. 2,162,484; June 13.
Klitsch, Paul J., Pottsville, Pa. Ice creeper. 2,162,175; June 13.
Klocke, William, Woodhaven, N. Y. Press. 2,161,869; June 13.

Klomp, Alfred W., Detroit, Mich. Universal gear cutter. 2,161,897; June 13.
Knapp-Monarch Company. (See Vea, Norman D., assignor.)
Knlesner, William T. (See Eboli, John E., assignor.)
Knight, Arthur H., Blackley, England, assignor to Imperial Chemical Industries Limited. Manufacture of azo dyestuffs. 2,162,507; June 13.
Knowles, Dewey D., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Grid glow tube. 2,162,508; June 13.
Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Lubrication. 2,161,821; June 13.
Koenig, Alphonso L., Chicago, Ill. Draft arm for dispensing beverages. 2,162,384; June 13.
Kogl, Frank, St. Kogl, Minn. Apparatus for precasting concrete stair structures. 2,161,822; June 13.
Kole, Lessing L., Milwaukee, Wis. Lipstick. 2,162,584; June 13.
Kollsman, Paul, New York, N. Y. Automatic means for varying compass card oscillation. 2,161,870; June 13.
Kollsman, Paul, New York, N. Y. Automatic means for varying compass card oscillation. 2,161,871; June 13.
Korsen, Lawrence S., Chicago, Ill. Spreader for treating liquids. 2,162,310; June 13.
Kostal, Franz, Vienna, assignor, to W. E. Reeser, Modling-Hinterbruhl, Austria. Electrical pocket writing and reading lamp. 2,161,872; June 13.
Kraeft, Herman L., Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Bicycle frame and stand construction. 2,161,823; June 13.
Kramer, Andrew A. (See Buchanan, Ferdinand C., assignor.)
Kratz, Henry. (See Boyce, John B., assignor.)
Krefft, Hermann, Berlin-Friedrichshafen, W. Hänlein, Berlin-Spandau, and M. Wagner, Weisswasser O/L, Germany, assignors to General Electric Company. Gaseous electric discharge device. 2,161,824; June 13.
Kreitzer, William E. (See Niswonger, E. B., and Pitchell, assignors.)
Kreutzer, Karl, assignor to the firm J. S. Staedtler, Nuremberg, Germany. Producing graphite writing and drawing leads. 2,162,311; June 13.
Kriechbaum, John P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heating system. 2,162,337; June 13.
Krieger, Wilhelm, and H. Buchner, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Photographic printing material. 2,162,456; June 13.
Kronoff, Clarence R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lay construction for looms. 2,162,312; June 13.
Kucher, Andrew A., Dayton, Ohio. Door latch. 2,162,405; June 13.
Kurpiewski, Felix, Trenton, N. J., assignor to The K and R Manufacturing Company. Beverage cooling device. 2,162,260; June 13.
Kurth, Matthew G., Madison, Wis. Compound helical packing. 2,162,555; June 13.
Kushima, James I., Ewa, Hawaii. Deck laying tool. 2,161,784; June 13.
Kuss, Ernst, O. Emert, and A. Hake, assignors of one-half to Duisburger Kupferhuette, Duisburg, and one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Regeneration of copper from cuprammonium artificial silk waste lyes. 2,162,176; June 13.
Kuss, Ernst, K. Horalek, and O. Emert, assignors of one-half to Duisburger Kupferhütte, Duisburg, and one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of cupric oxychloride. 2,162,091; June 13.
Kuss, Ernst, K. Horalek, and O. Emert, assignors of one-half to Duisburger Kupferhütte, Duisburg, and one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of copper salts. 2,161,825; June 13.
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Alkyl phenol and manufacturing same. 2,161,826; June 13.
La Brecque, Theodore A., assignor to The Hilliard Corporation, Elmira, N. Y. Apparatus for treating oil. 2,161,964; June 13.
La Chapelle, Fred N., and J. W. Ashley, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 2,161,827; June 13.
Lachter, Saul L., Maplewood, N. J. Spectacle case. 2,162,222; June 13.
Lacy, Burritt S., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Metallurgical process. 2,162,619; June 13.
Lagaard, Alexander S. T., assignor to Dough-King, Inc., Minneapolis, Minn. Dough cutter. 2,162,557; June 13.
Lagaard, Alexander S. T., assignor to Dough-King, Inc., Minneapolis, Minn. Control device for doughnut machines. 2,162,558; June 13.
Lagaard, Alexander S. T., Minneapolis, assignor to Waldorf Paper Products Company, St. Paul, Minn. Carton. 2,162,556; June 13.
La Grua, James C., New Haven, Conn., assignor, by mesne assignments, to president and directors of the Manhattan Company, New York, N. Y., as trustees. Container. 2,161,873; June 13.
Lambert, Charles L., Chicago, Ill. Joist structure. 2,162,559; June 13.
Lamberton, Ralph E., Michigan City, Ind., assignor to Sullivan Machinery Company. Air compressor. 2,161,828; June 13.
Lammedee, John M. (See Wilson, L. F., and Lammedee.)
Lange, Henry. (See Ryan, Oval T., assignor.)
Langguth, Erich, Hagen-Emst, Germany. Manufacturing large surface electrodes. 2,162,385; June 13.
Larsen, Carl B., assignor to J. I. Case Company, Racine, Wis. Set-up device. 2,162,338; June 13.
Larsen, Gabriel, Springfield, N. J., assignor to L. E. Waterman Company, New York, N. Y. Fountain pen barrel. 2,162,223; June 13.
Larsen, Lewis, Menominee, Mich., assignor to Heywood-Wakefield Company, Gardner, Mass. Combined chair and table. 2,162,560; June 13.
Larsen, Martin I., Chicago, Ill. Water heater or boiler. 2,162,620; June 13.
Laufer, Ernest W. D., Arlington Heights, and C. P. Reis, Chicago, Ill., assignors to The American Steel and Wire Company of New Jersey. Coating for fastenings. 2,162,177; June 13.
Laurin, Laurentius, Gothenburg, and S. L. Laurin, Bohus, Sweden. Fish bone and skin removing machine. 2,162,621; June 13.
Laurin, Sven L. (See Laurin, Laurentius, and S. L.)
Lawrence, James P., assignor to The American Mono Rail Company, Cleveland, Ohio. Conveyer system drive. 2,162,688; June 13.
Lawrence Pump and Engine Co. (See Dean, J. L., and Schmidt, assignors.)
Laxo, Ed, Baltimore, Md., assignor to Owens-Illinois Can Company. Can turner. 2,162,457; June 13.
Layne, Leslie A., Houston, Tex. Well cementing. 2,162,261; June 13.
Ledbetter, Elmer E., Dearborn, Mich. Finned tube and forming the same. 2,161,898; June 13.
Ledbetter, Willie W., Gladewater, assignor to W. T. Olsen, Harris County, Tex. Treating crude oil. 2,162,281; June 13.
Lee, Paul R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Manual reset thermostat. 2,162,485; June 13.
Legge, Algeo, Los Angeles, Calif. Receptacle. 2,162,224; June 13.
Lehmann, Erich, Priorau, Bitterfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Hair dye. 2,162,458; June 13.
Lehn, John U., and J. D. Zahn, assignors to Animal Trap Company of America, Lititz, Pa. Animal trap. 2,161,874; June 13.
Leishman, Le Roy J., Los Angeles, Calif. Automatic tuner. 2,162,282; June 13.
La Mar, Frank C. (See Dodge, Lyman E., assignor.)
Lemont, Clarence J., assignor to Line Material Company, South Milwaukee, Wis. Connector. 2,162,561; June 13.
Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Phase-sequence filter. 2,161,829; June 13.
Lenning, Alvar, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,161,875; June 13.
Leroy, Everett R. (See Hicks, R. M., and Leroy.)
Leslie, Robert W. (See Fry, C. L., and Leslie.)
Les Usines de Melle. (See Guinot, Henri M., assignor.)
Letarte, Henry P., Graniteville, Vt. Pitcher's target. 2,162,438; June 13.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Sealing means for centrifugal pump impellers. 2,162,486; June 13.
Leukert, Wilhelm, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric motor drive. 2,162,509; June 13.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sewing machine. 2,162,406; June 13.
Lever Brothers Company. (See Andersen, Carl N., assignor.)
Liebling, Arnold. (See Goldberger, Arthur, assignor.)
Linden, Gad A. L., Brooklyn, N. Y. Hair curler. 2,162,262; June 13.
Lindholm, Arthur W., East Milton, and G. W. Anderson, North Quincy, assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,162,263; June 13.
Lindsay, Clarence A., Washington, D. C. Motor truck scale. 2,162,622; June 13.
Line Material Company. (See Glese, Lawrence F., assignor.)
Line Material Company. (See Lemont, Clarence J., assignor.)
Liner, Joseph L., Toledo, Ohio, assignor to The Orion Electric Company, Wilmington, Del. Windshield wiper arm. 2,161,965; June 13.

Linet, Harry, Yonkers, N. Y. Cutting fur pelts. 2,161,830; June 13.
Lingo, Archibald E., Collingswood, assignor to John E. Lingo & Son, Inc., Camden, N. J. Mast for radio broadcasting. 2,162,675; June 13.
Lingo, John E., & Son, Inc. (See Lingo, Archibald E., assignor.)
Link-Belt Company. (See Bryan, Clare, assignor.)
Linsner, Arthur F., assignor to Defiance Sales Corporation, New York, N. Y. Parallel straight edge. 2,162,264; June 13.
Lintern, Alfred R., and P. J. Miller, assignors to Evans Products Company, Detroit, Mich. Vehicle ventilating and heating apparatus. 2,162,439; June 13.
Lister, R. A., & Company Limited. (See Wilson, Martin W., assignor.)
Little, Donald G., Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Neutralizing circuit. 2,162,535; June 13.
Livingston, George P., Quincy, Fla. Mouse and rat trap. 2,162,623; June 13.
Lockhart, William, assignor to Cornell Securities Corporation, Cleveland, Ohio. Metallic receptacle and closure therefor. 2,162,663; June 13.
Lockhart, William, assignor to Cornell Securties Corporation, Cleveland, Ohio. Receptacle and closure therefor. 2,162,664; June 13.
Lockwood, Edwin H. (See Hadley, D. L., and Lockwood.)
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of organic acids higher than acetic acid. 2,162,459; June 13.
Logan Gear Company, The. (See Snell, Samuel A., assignor.)
Logue, Leland H., Denver, Colo., assignor, by mesne assignments, to Mining Process and Patent Company. Transmission drive. 2,162,624; June 13.
Long, Jon R., Fort Worth, Tex., assignor of one-half to L. L. Foley, Tulsa, Okla. Flowing wells. 2,161,966; June 13.
Loomis, Leroy H., Cleveland Heights, Ohio. Separable electrical connector. 2,162,265; June 13.
López, Salvador H., Mexico, D. F., Mexico. Atomizing burner for crude pretoleum. 2,161,785; June 13.
Lorenz, William, and L. W. Pollack, assignors, by mesne assignments, to Margon Corporation, Bayonne, N. J. Doll eye and lash. 2,161,876; June 13.
Lotz, Albert, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Selenium rectifier. 2,162,487; June 13.
Lowe, Alexander M., Musselburgh, Midlothian, Scotland. Dispensing cabinet for oils or other fluent materials. 2,162,625; June 13.
Lowry, Homer H. (See Kasehagen, L., and Lowry.)
Lowry, James. (See McVicker, Jesse D., assignor.)
Lulek, Ralph N. (See Weiland, H. J., and Lulek.)
Lulek, Ralph N., Silverside Heights, Del., and C. F. Belcher, Bridgeton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,161,967; June 13.
Lumineles (Societe a responsabilite Limitee). (See Abadie, Jean B. J. M., assignor.)
Lundgren, Carl E., La Porte, Ind. Closure. 2,162,092; June 13.
Lutto S. A., The. (See Amrein, Adolf, assignor.)
Lütz & Weiss G. m. b. H., Silber & Metallwarenfabrik. (See Dürrler, Wilhelm, assignor.)
Lyons, Dwight E. (See Gilliam, Lawrence M., assignor.)
Lyons, Daniel A., Los Angeles, and L. R. Earl, Alhambra, assignors to Consolidated Steel Corp., Ltd., Los Angeles, Calif. Apparatus for manufacturing or lining pipes. 2,161,968; June 13.
Macallum, Alexander D., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of acetylene glycols. 2,162,676; June 13.
MacFadden, Glenn E., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric lighting fixture. 2,162,626; June 13.
MacGregor, Alpine R., Forest Hills, Pa. Alloy. 2,162,627 June 13.
Madden, Harry E., Norwood, Pa. Fuel consumption measuring apparatus. 2,162,093; June 13.
Magnesium Development Corporation. (See Söll, Julius, assignor.)
Mahone, Thomas W., assignor to The Central Carton Company, Cincinnati, Ohio. Carton. 2,162,094; June 13.
Main, David W., Detroit, Mich. assignor to Transportation Systems, Inc. Combined road and rail vehicle and track system therefor. 2,162,351; June 13.
Main, Frank L., Birmingham, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake mechanism. 2,161,899; June 13.
Main, Frank L., Birmingham, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake mechanism. 2,161,900; June 13.
Mallory, P. R., & Co. (See Doty, A. S., and Swazy, assignors.)
Malocsay, Francis X., Upper Saddle River, N. J. Mechanism for aperturing cartons. 2,161,877; June 13.
Mange, Clarence E., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo. Punch. 2,161,969; June 13.
Manion, Charles H., Follansbee, W. Va., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Method and apparatus for manufacturing metallic strip. 2,162,407; June 13.
Manning, Fowler, Bronxville, assignor, by mesne assignments to American Radiator & Standard Sanitary Corporation, New York, N. Y. Filter. 2,161,831; June 13.
Mansfield, Roger, Dorchester, Mass. Adjustable ladder attachment for supporting paint pails. 2,162,022; June 13.
Maples, Amos L., Long Beach, Calif. Can opener. 2,162,095; June 13.
Marasco, Martin, Parlin, N. J., and E. A. Merritt, Chevy Chase, Md., assignor to Du Pont Firm Mfg. Corp., New York, N. Y. X-ray shielding compound. 2,162,178; June 13.
Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Series capacitor protective system. 2,162,488; June 13.
Marchant Calculating Machine Company. (See Avery, Harold T., assignor.)
Marchant, Calculating Machine Company. (See Avery, H. T., and Dustin, assignors.)
Marcus, Samuel, Belle Harbor, N. Y., assignor, by mesne assignments, to Margon Corporation, Bayonne, N. J. Mannikin with eyes and lashes. 2,161,878; June 13.
Margon Corporation. (See Lorenz, W. and Pollack, assignors.)
Margon Corporation. (See Marcus, Samuel, assignor.)
Marinsky, Davis, Bronx, assignor to Whitehall Patents Corporation, New York, N. Y. Finger piece for the sliders of separable fasteners. 2,162,266; June 13.
Markel Electric Products, Inc. (See MacFadden, Glenn E., assignor.)
Marmon-Herrington Company. (See Herrington, Arthur W., assignor.)
Marmorek, Louis, Brooklyn, assignor to Auto Cream Whip Corporation, New York, N. Y. Device for producing whipped cream. 2,162,096; June 13.
Marquardt, Kurt, assignor to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric condenser. 2,162,471; June 13.
Marsh, Holdridge W. (See Thorp, J. R., and Marsh.)
Marsh, Jas. P., Corporation. (See Hedfield, Reynold T., assignor.)
Martin, Jean R. L., New York, N. Y. Varnish. 2,162,225; June 13.
Martin, Raymond J., White Plains, N. Y. Areaway construction. 2,162,628; June 13.
Maschinenfabrik Augsburg-Nürnberg A. G. (See Jagschitz, Konrad, assignor.)
Massing, Leo, et al. (See Conger, Earnest J., assignor.)
Masson, Claudius, Lyon, France. Machine for printing designs on fabrics. 2,162,440; June 13.
Matthaei, Frederick C., and N. C. Dooley, assignors to American Metal Products Company, Detroit, Mich. Making a torque tube. 2,162,510; June 13.
Matthies, Kurt, Berlin-Siemensstadt, and H. Ganswindt, Berlin-Friedenau, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Lead wire construction. 2,162,489; June 13.
Maxwell, Robert W., asisgnor to E. I. du Pont de Nemours & Company, Wilmington, Del. Viscose-cellulose ether solution. 2,162,460; June 13.
May, John W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Shockproof device. 2,162,511; June 13.
Mayer, Hans, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Amplifier. 2,162,267; June 13.
Mayher, Carl W., Chicago, Ill. Temperature indicating mechanism. 2,161,879; June 13.
McBain, James W. (See Dole, R. A., and McBain.)
McBride, Clifford A., East Providence, R. I. Receptacle. 2,162,629; June 13.
McCabe, Ira E., Chicago, Ill. Electric switch. 2,162,098; June 13.
McCabe, John J., Cleveland, and A. W. Seyfried, Shaker Heights, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Operating handle for manually propelled tools. 2,162,313; June 13.
McCaleb, Albert G. M. (See Allen, Hugh E., assignor.)
McClaughry, Charles D., Piedmont, Calif. Card holder. 2,162,025; June 13.
McCollum, Andrew O., assignor to Bendix Home Appliances, Inc., Detroit, Mich. Escapement mechanism. 2,162,352; June 13.
McDevitt, Harry J., Media, Pa. Shaper or grinder. 2,162,630; June 13.
McGregor, Allan L., Chicago, Ill. Automobile protective device. 2,162,099; June 13.
McGregor, Allan L., Chicago, Ill. Automobile protective device. 2,162,100; June 13.
McIlvanie, Wallace G., Yakima, Wash. Scintillating sign. 2,161,927; June 13.
McKinley, Charles W., L. B. Smith, and C. B. Dinsmore, Flint, assignors to General Motors Corporation, Detroit, Mich. Speed cup balancing machine. 2,162,101; June 13.
McKinney, Ward E., Los Angeles, Calif. Shade. 2,162,226; June 13.
McKune, Clifford A., San Francisco, Calif. Hand stamp. 2,162,102; June 13.
McLaurin-Jones Co. (See Davis, Lewis, assignor.)

McOsker, Joseph D., Allston, Mass. Game counting device. 2,162,631; June 13.
McPherson, Hal W., and H. L. Chisholm, Jr., assignors to Houde Engineering Corporation, Buffalo, N. Y. Air conditioning system for automobiles. 2,162,512; June 13.
McShane, Phelan, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Overspeed protective means. 2,162,513; June 13.
McVicker, Jesse D., assignor of one-tenth to J. Lowry, Lodi, Ohio. Hopper trailer. 2,162,353; June 13.
Mead, Theodore E., Wilmette, Ill. Sailboat mast bending. 2,162,441; June 13.
Mechanical Handling Systems, Inc. (See Bishop, Leonard J., assignor.)
Meek, Eustice C., Upper Montclair, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Pouring carton. 2,162,632; June 13.
Merritt, Edwin A. (See Marasco, M., and Merritt.)
Meszar, John, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,162,268; June 13.
Metal Tube Shaping Corporation. (See Dewey, Clarence L., and S. L., assignors.)
Metcalf, Walter W., Hooslek Falls, N. Y. Cylinder paper machine. 2,162,097; June 13.
Meyer, Andre J., Grosse Pointe, assignor to Continental Motors Corporation, Detroit, Mich. Engine. 2,162,514; June 13.
Middleton, Orrie C., Corunna, assignor of one-half to H. L. Hartley, Owosso, Mich. Sanding and spreading device. 2,162,103; June 13.
Miescher, Karl, Riehen, and A. Wettstein, Basel, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Hydantoins containing the steroi nucleus. 2,161,928; June 13.
Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Sulphuric acid derivatives of alkyl-phenols. 2,162,269; June 13.
Mikina, Stanley J., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Speed regulator. 2,162,490; June 13.
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller, Floyd L., Roselle Park, and C. F. Smith, Elizabeth, N. J., assignors to Standard Oil Development Company. Lubricant. 2,161,970; June 13.
Miller, Ford S., New Salem, Kans. Electrode holder. 2,162,633; June 13.
Miller, John H., P. L. Thurston, and L. W. Poole, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Circular knitting machine. 2,161,880; June 13.
Miller, Peter J. (See Lintern, A. R., and Miller.)
Miller, Samuel J., B. Sway, and E. P. Breckel, assignors to The Du Bois Soap Company, Cincinnati, Ohio. Detergent composition and making same. 2,162,023; June 13.
Miller, William C., assignor to Diebold Safe & Lock Co., Canton, Ohio. Delayed control time lock. 2,162,442; June 13.
Milliken, Frank H., assignor to The Ideal Electric and Manufacturing Company, Mansfield, Ohio. Slip frequency relay. 2,161,929; June 13.
Mills, Robert K., Sherwood, Nottingham, assignor to Wrightwear Limited, Sutton-in-Ashfield, Nottinghamshire, England. Knitting machine. 2,162,024; June 13.
Milton, Alonzo L. (See Hobstetter, C. A., Gillis, and Milton.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Miner, W. H., Inc. (See Johnson, George A., assignor.)
Minerals Separation North American Corporation. (See Trotter, W., and Wilkinson, assignors.)
Mining Process and Patent Company. (See Logue, Leland H., assignor.)
Minneapolis-Honeywell Regulator Company. (See Benjamin, Merrill G., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kriechbaum, John P., assignor.)
Minneapolis-Honeywell Regulator Company. (See Peltz, Gordon M., assignor.)
Minnesota Mining & Manufacturing Company. (See Herchenrider, Henry R., assignor.)
Missouri Rolling Mill Corporation. (See Bauer, Carl, assignor.)
Mitchell Camera Corporation. (See Worrall, Gearge H., assignor.)
Mitchell, Claude, et al. (See Conger, Earnest J., assignor.)
Mitchell Manufacturing Company. (See Gilson, Arthur G., assignor.)
Monawatt Electric Corporation, The. (See Benander, George B., assignor.)
Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)
Moore, Verlin E., Kansas City, Mo. Air register grille. 2,162,562; June 13.
Moos, Josef. (See Terres, E., Moos, and Ramser.)
Moran, Robert C., Wenonah, and W. H. James, Paulsboro, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oil. 2,162,207; June 13.
Moran, Robert C., Wenonah, W. H. James, Paulsboro, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition. 2,162,208; June 13.
Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 2,162,026; June 13.
Morris Packaging Equipment Company. (See Ness, Edward F., assignor.)
Morrison, Willie C. L., assignor of one-half to W. F. and J. E. Kelley, Evergreen, Ala. Musical instrument. 2,162,339; June 13.
Morsbach, Edward A. (See Johnson, Evar, assignor.)
Morse, Stanley H. (See Higham, W. W., and Morse.)
Moschel, Herman. (See Jones, F. D., and Moschel.)
Mosel, Joseph H., assignor to The Jaeger Machine Company, Columbus, Ohio. Road-building apparatus. 2,162,665; June 13.
Mosher, Ezra D., assignor to National Oil Seal Co., Oakland, Calif. Fluid seal. 2,162,104; June 13.
Motoraktieselskapet av 1935. (See Gross, Court, assignor.)
Mott, Edward E., Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 2,162,270; June 13.
Mueller, Robert A., assignor to Gray Tool Company, Houston, Tex. Oil well completion equipment. 2,162,179; June 13.
Muir, James A. (See Austin, H. M., and Muir.)
Müller, Carl W., Dresden-Weisser Hirsch, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co., Dresden, Germany. Regulating the tobacco rod in cigarette-making machines. 2,162,443; June 13.
Müller, Heinrich, Nuremberg, Germany. Toy vehicle. 2,161,971; June 13.
Müller, Wilhelm, and A. Closmann, Leipzig, assignors to Atlas Ago Chemische Fabrik, Aktien-Gesellschaft, Molkau, near Leipzig, Germany. Material for manufacturing paper collars and the like. 2,161,972; June 13.
Munters, Carl G., assignor to Aktiebolaget Termisk Isolation, Stockholm, Sweden. Heat insulating receptacle. 2,162,271; June 13.
Muren, Albert L., Dearborn, Mich. Oil burner. 2,162,105; June 13.
Murray Company, The. (See Woodford, Bronson C., assignor.)
Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)
Murray-Ohio Manufacturing Company, The. (See Kraeft, Herman L., assignor.)
Muse, Lee R. (See Dove, John B., assignor.)
Musher, Albert, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J. Aerated products. 2,162,585; June 13.
Musher Corporation. (See Musher, Albert, assignor.)
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Plasticization of cellulose ethers. 2,162,027; June 13.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Cellulose ether coating composition. 2,162,028; June 13.
Musolf, Paul J., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Beater. 2,161,881; June 13.
N. V. Philips' Gloeilampenfabrieken. (See Emmens, H., and van Geel, assignors.)
N. V. Philips' Gloeilampenfabrieken. (See Jonas, Gottfried R., assignor.)
Na-Mac Products Company. (See Hacmac, Edward R., assignor.)
Nash-Kelvinator Corporation. (See Cossin, Hursle E., assignor.)
Natick Box and Board Co. (See Vaughn, Marguerite E., assignor.)
National Broach & Machine Company. (See Praeg, Walter S., assignor.)
National Cash Register Company, The. (See Breitling, Ernst, assignor.)
National Fireproofing Corporation. (See Christie, L. M., Wanner, and Brewer, assignors.)
National Lock Washer Company, The. (See Schunk, Joseph, assignor.)
National Oil Seal Co. (See Mosher, Ezra D., assignor.)
National Standard Company. (See Parrish, H. W., and Dickeson, assignors.)
National Standard Company. (See Pierce, Robert C., assignor.)
National Wire Goods Manufacturing Company. (See Boyles, David S., assignor.)
Naturin Gesellschaft mit beschränkter Haftung. (See Becker, Oskar W., assignor.)
Nave, Alfred E. (See Collins, W. D., and Nave.)
Ness, Edward F., assignor to Morris Packaging Equipment Company, Toledo, Ohio. Print forming and wrapping mechanism. 2,162,106; June 13.
Neptune Meter Company. (See Hazard, Charles S., assignor.)
Neuhof, Bruno, Berlin, Germany. Manufacture of insulating bodies. 2,162,386; June 13.
Neville Company, The. (See Carmody, William H., assignor.)
Newman, Delbert F., Schenectady, N. Y., assignor to General Electric Company. Refrigerant evaporator. 2,162,586; June 13.

Newman, Max M., New York, N. Y. Pressing iron. 2,162,354; June 13.
Newman, William J., Chicago, Ill. Forming concrete foundation columns. 2,162,108; June 13.
Newton, Charles G., Hamilton, Ontario, Canada. Yarn carrier of knitting machines. 2,162,107; June 13.
New York Central Railroad Company, The. (See Davenport, James E., assignor.)
Nicholson, Stanley W., Toledo, Ohio, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Vehicle window regulator. 2,162,109; June 13.
Nicholson, Stanley W., Toledo, Ohio, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Regulator for vehicle windows. 2,162,110; June 13.
Nicholson, Stanley W., Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich. Tensioning device for vehicle window regulators. 2,162,111; June 13.
Nickels, Leslie J., Arbuckle, Calif. Electric welding electrode holder. 2,162,112; June 13.
Niswonger, Everett B., and H. E. Patchell, Oak Hill, W. Va., assignors of one-third to W. E. Kreitzer, Dayton, Ohio. Automatic safety latch for vehicle doors. 2,161,930; June 13.
Noffsinger, Fred P., Greeley, Colo. Bag holder. 2,162,113; June 13.
Norton Company. (See Indge, Herbert S., assignor.)
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Envelope transfer and feeding mechanism. 2,162,666; June 13.
O'Brien, Joseph F., Jersey City, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lighting fixture. 2,162,515; June 13.
Odier, Antoine L., Paris, France. Measuring a quantity of liquid in a tank. 2,162,180; June 13.
Ohio Brass Company, The. (See Higgins, Ralph, assignor.)
Old Colony Furniture Co. (See Rudman, E. G., and Ranney.)
Oldham, John M., assignor to L. A. Young, Detroit, Mich. Molding machine. 2,162,563; June 13.
Olin, Robert R. (See Reichard, W. E., and Olin.)
Oliver Machinery Company. (See Tuthill, H. B., and Caldwell, assignors.)
Oliver, Wallace F., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure braking system. 2,162,114; June 13.
Olsen, W. T. (See Ledbetter, Willie W., assignor.)
O'Mealia, Harry F., Jersey City, N. J. Shirt cuff. 2,162,536; June 13.
Oplinger, Kirk A. (See Brace, P. H., Hanna, and Oplinger.)
Orion Electric Company, The. (See Liner, Joseph I., assignor.)
Orr-Felt Blanket Company, The. (See Dawson, Robert L., assignor.)
Oshman, Benjamin and J., New York, N. Y. Tooth brush retainer. 2,162,283; June 13.
Oshman, Joseph. (See Oshman, Benjamin and J.)
Ostro Research Laboratories, Inc. (See Hopkinson, R., and Tolstoouhov, assignors.)
Otten, Julius. (See Vastano, F. A., and Otten.)
Overman, Marion M. (See Barr, J. L., and Overman.)
Owens-Illinois Can Company. (See Elser, William, assignor.)
Owens-Illinois Can Company. (See Laxo, Ed, assignor.)
Owens-Illinois Glass Company. (See Hoge, John R., assignor.)
Oxley, John H., Watertown, Mass. Inkwell for desks. 2,161,832; June 13.
Pacific Can Company. (See Johnstone, Charles A., assignor.)
Page, George A., Jr., Ferguson, Mo., assignor to Curtiss-Wright Corporation. Pressure fuselage. 2,162,227; June 13.
Paget, Win W., Michigan City, Ind., assignor to Sullivan Machinery Company. Sealing device. 2,161,833; June 13.
Palne, Fred, Hollidays Cove, W. Va. License plate holder. 2,162,634; June 13.
Parrish, Hale W., South Bend, Ind., and L. G. Dickeson, Niles, Mich., assignors to National Standard Company, Niles, Mich. Conduit forming mechanism. 2,162,355; June 13.
Parsons, John S., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsourgh, Pa. Automatic network protector. 2,162,516; June 13.
Patch, James A., Stoneham, Mass. Preparing vitamin concentrates. 2,161,882; June 13.
Patchell, Herbert E. (See Niswonger, E. B., and Patchell.)
Patco, Inc. (See Harris, Ford W., assignor.)
Patterson, William S., Arlington, Mass. Coffee bag, tea bag, and the like. 2,162,272; June 13.
Pattison, Paul M., New Castle, Pa. Can crusher. 2,161,931; June 13.
Paul, Alfred, Jr., Paul Spur, Ariz. Trailer hitch. 2,162,029; June 13.
Pauls Fish Net Company. (See Pauls, Peter T., assignor.)
Pauls, Peter T., assignor to Pauls Fish Net Company, Chicago, Ill. Netting construction. 2,162,115; June 13.
Paxton, Gerald C., Santa Ana, assignor to Food Machinery Corporation, San Jose, Calif. Nail feeding mechanism. 2,161,973; June 13.
Pearce, Arthur G. (See Breadner, R. L., and Pearce.)
Pearlman, William, et al. (See Conger, Earnest J., assignor.)
Pearson, Gustav C., Denver, Colo., assignor to Gardner-Denver Company, Quincy, Ill. Shank and bit punch. 2,162,667; June 13.
Peck, Edward B., Elizabeth, N. J., assignor to Standard Oil Development Company. Controlling exothermic reactions. 2,161,974; June 13.
Peek, Robert L., Jr., Townley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,162,356; June 13.
Peereboom, Simon P., Rockville Centre, N. Y. Snow plow. 2,162,635; June 13.
Peirce, Daniel N., Bethayres, Pa., assignor to Fox Products Company. Bottle sterilizer. 2,162,228; June 13.
Peltz, Gordon M., Elmhurst, New York, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature control. 2,162,116; June 13.
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Peo, Ralph F., assignor to Houde Engineering Corporation, Buffalo, N. Y. Refrigerating system. 2,162,537; June 13.
Peo, Ralph F., assignor to Houde Engineering Corporation, Buffalo, N. Y. Dry ice air conditioning unit for vehicles. 2,162,538; June 13.
Peoples, Harold D., Canton, Ohio. Grill for cooking foodstuff over campfires. 2,162,636; June 13.
Percival, William S. (See Bull, C. S., and Percival.)
Perfection Stove Company. (See Chadwick, Lee S., assignor.)
Perkins, Melvin A., Milwaukee, and C. E. Carr, South Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs and intermediates of the pyrazolanthrone series. 2,162,201; June 13.
Perri, Thomas, Toms River, N. J. Poultry fountain. 2,162,314; June 13.
Perry, Harlan A., Chicago, Ill. Scraper. 2,162,117; June 13.
Perry, Richard G. (See Dreyfus, H., Finlayson, and Perry.)
Perry, Richard G. (See Finlayson, D., and Perry.)
Persil Gesellschaft Henkel & Voith m. b. H. (See Wehrstein, Andreas, assignor.)
Peterman, Joseph A., New York, N. Y. Bracket for attaching conduits to walls. 2,162,340; June 13.
Peters, John F., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Searchlight controller. 2,162,517; June 13.
Petersen, Karl W., Stockholm, Sweden, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Titanium dioxide pigments. 2,161,975; June 13.
Peterson, Per A., New York, N. Y. Propeller. 2,161,932; June 13.
Phillips, David W., Chicago, Ill. Dental pin. 2,162,444; June 13.
Phillips, Noel. (See Clow, Alfred C., assignor.)
Phillips Petroleum Company. (See Farrell, J. L., and Ibach, assignors.)
Phillips Petroleum Company. (See Schulze, Walter A., assignor.)
Phoenix Hosiery Company. (See Ruedt, J. C., and Redeen, assignors.)
Piazzoli, Louis P., Jr., assignor to Capstan Glass Company, Connellsville, Pa. Heating device for glass lehrs and the like. 2,162,030; June 13.
Pierce, Howard M., and J. H. Hermson, Brooklyn, assignors to A. G. Spalding & Bros., New York, N. Y. Calk device. 2,161,883; June 13.
Pierce, John B., Foundation. (See Groeniger, William C., assignor.)
Pierce, Robert C., assignor to National Standard Company, Niles, Mich. Drawing of wire. 2,162,357; June 13.
Pierpoint, Albert J., and R. H. Crouch, London, England. Electrical treatment of water for the purpose of reducing hardness. 2,161,933; June 13.
Pitt, Harold M., Jr., Los Angeles, and A. M. Esberg, Mountain View, Calif. Production of liquid sulphur dioxide. 2,162,637; June 13.
Pittman, Glen, Wayne, Mich. Hydraulic transmission. 2,162,315; June 13.
Pittsburgh Equitable Meter Company. (See Chrisman, Horace, assignor.)
Pittsburgh Plate Glass Company. (See Muskat, Irving E., assignor.)
Planters Manufacturing Company. (See Hargroves, Willis W., assignor.)
Plueckhahn, Robert C., Buffalo, N. Y. Dash manipulated hood lock. 2,162,638; June 13.
Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)
Pneumatic Scale Corporation. (See Hultin, Oscar H., assignor.)
Pneumatic Scale Corporation. (See Lindholm, A. W., and Anderson, assignors.)
Pollner, Rose, New York, N. Y. Convertible meat grinder and juice extractor. 2,162,564; June 13.

Pollack, Lazarus W. (See Lorenz, W., and Pollack.)
Pontis, William G., and C. H. Kindl, Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich. Compressor or pump. 2,162,639; June 13.
Poole, Lee W. (See Miller, J. H., Thurston, and Poole.)
Poor & Company. (See Armstrong, Victor C., assignor.)
Porter-Cable Machine Company, Inc., The. (See Burns, J. S., and Emmons, assignors.)
Post, Claude L., Chicago, Ill. Door. 2,162,640; June 13.
Potter, Rossiter R. (See Blood, H. E., and Potter.)
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Orientation indicating device. 2,162,358; June 13.
Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Broach. 2,161,901; June 13.
Prendes, Joaquina, New York, N. Y. Gas lighter. 2,162,587; June 13.
President and directors of the Manhattan Company, trustees. (See La Grua, James C., assignor.)
Presser, Ernst, Berlin-Dahlem, Germany. Photoelectric cells of the layer type and producing the same. 2,161,786; June 13.
Prince, David C., Swarthmore, Pa., assignor to General Electric Company. Electric circuit breaker. 2,162,588; June 13.
Production Oil Products, Inc. (See Guthmann, Walter S., assignor.)
Protherio Radium Memorial. (See Rovner, Leopold, assignor.)
Rabezzana, Hector, Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug shield. 2,162,118; June 13.
Radabaugh, Noah B., Mentor-on-the-Lake, Ohio. Plastic compound. 2,162,387; June 13.
Radioaktiengesellschaft D. S. Loewe. (See Kapteyn, Paul, assignor.)
Radio Corporation of America. (See Cockerell, Christopher S., assignor.)
Radio Corporation of America. (See Six, Willem, assignor.)
Radio Corporation of America. (See Thomas, Adolph A., assignor.)
Radio Corporation of America. (See Whitaker, James N., assignor.)
Ramsaur, Walter R., assignor to Young Radiator Company, Racine, Wis. Turbulence strip for radiator tubes. 2,161,887; June 13.
Ramser, Hans. (See Terres, E., Moos and Ramser.)
Rand, Rufus R., Jr. (See Cooley, R. M., and Rand.)
Ranney, Francis G. (See Rudman, E. G., and Ranney.)
Ray, Don. (See Berch, S. H., Ray and Chase.)
Rearick, Edward C., Cranford, assignor to Western Electric Company, Incorporated, New York, N. Y. Making electrical condenser. 2,161,888; June 13.
Reaume, Lawrence W., assignor to River Raisin Paper Company, Monroe, Mich. Carton. 2,162,119; June 13.
Reavill, Frederick, Beeston, England. Spring door lock. 2,162,031; June 13.
Rebhan, Joseph, and R. Elsner, Nuremberg, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Testing electric machines. 2,162,539; June 13.
Reconstruction Finance Corporation. (See Gretler, Otto, assignor.)
Reconstruction Finance Corporation. (See Hillberg, Bror, assignor.)
Redeen, William C. (See Ruedt, J. C., and Redeen.)
Reed, Harlow A., Oakdale, Calif. Motor tuning indicator. 2,162,120; June 13.
Reeser, Wilhelm E. (See Kostal, Franz, assignor.)
Reeves, Hazard E. (See Franck, E. W., and Reeves.)
Reichard, Wade H., assignor to General Railway Signal Company, Rochester, N. Y. Coded train control system for railroads. 2,162,461; June 13.
Reichard, Willis E., Elyria, and R. R. Olin, Akron, assignors to The Worthington Ball Company, Elyria, Ohio. Rubber compositions. 2,161,934; June 13.
Reichhold Chemicals. (See Hönel, H., and Zinke.)
Reichhold, Helmuth. (See Hönel, H. and Zinke, assignors.)
Reid, Elmer A., Morrisville, Pa. Humidifier. 2,162,462; June 13.
Reis, Clarence P. (See Laufer, E. W. D. and Reis.)
Remington, Alfred M., assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Welding and tempering. 2,162,229; June 13.
Republic Supply Company. (See Humphrey, George T., assignor.)
Resch, William J., Woodland, assignor to Spreckels Sugar Company, San Francisco, Calif. Taking samples. 2,162,122; June 13.
Research Corporation. (See Coey, Stewart C., assignor.)
Reynolds, Bernie S., assignor of one-third to H. P. Smith, and one-third to T. A. Jones, both of Wichita Falls, Tex. Rotary expanding fountain brush. 2,162,677; June 13.
Reynolds, Lulu E., et al., executors. (See Reynolds, Marvin C.)
Reynolds, Marvin C., deceased, Chicago, Ill.; L. E. Reynolds and First National Bank of Chicago, executors, assignors to The Emulsol Corporation, Chicago, Ill. Treating liquid egg material. 2,162,316; June 13.
Rez, Anton G., Seattle, Wash. Method and apparatus for fusing characters to molded glass articles. 2,162,317; June 13.
Rhinevault, Harry A., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Lock for socket wrenches, etc. 2,162,359; June 13.
Rhodes, Herbert C., Portland, Oreg., assignor to American Machine & Foundry Company. Dough dividing machine construction. 2,162,641; June 13.
Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Temperature control device. 2,162,589; June 13.
Richardson, Roger W. (See Tilton, J. A., and Richardson.)
Richel, John C., Leechburg, Pa. Jar wrench. 2,162,445; June 13.
Richmond Screw Anchor Co. (See Schenk, Tamis C., assignor.)
Richter, Hans R. (See Geffcken, H. H. and Richter.)
Richter, Herman F., Los Angeles, Calif. Sucker rod connection. 2,162,123; June 13.
Richter, James L., Far Rockaway, N. Y., and H. Goldblum, Paterson, N. J. Simulated bevel vanity mirror. 2,162,590; June 13.
Riggs, Amalia de M., et al. (See de Murguiondo, Jose H., assignor.)
Riley, Albert C., Melrose, assignor to Cambridge Rubber Co., Cambridge, Mass. Rubber shoe welting. 2,161,902; June 13.
Ritterholz, Clifford E., assignor of one-half to F. G. Cain, Cincinnati, Ohio. Line justification method and means for typewriting machines. 2,162,565; June 13.
River Raisin Paper Company. (See Reaume, Lawrence W., assignor.)
Riverside Company, The. (See Scharf, Lou, assignor.)
Roberts, Inez M., Rapid City, S. Dak. Combined carrying and pouring appliance for thermos bottles and the like. 2,161,935; June 13.
Robertson, Arthur F. (See Dunham, Le R. S. and Robertson.)
Robertson, Arthur F., Belleville, assignor to Edison-Splitdorf Corporation, West Orange, N. J. Adjustable coupling. 2,161,956; June 13.
Robertson, Harold F., Coraopolis, Pa., assignor to Carbide and Carbon Chemicals Corporation. Polyvinyl acetal resins. 2,162,678; June 13.
Robertson, Harold F., Coraopolis, Pa., assignor to Carbide and Carbon Chemicals Corporation. Polyvinyl acetal resins. 2,162,679; June 13.
Robertson, Harold F., Coraopolis, Pa., assignor to Carbide and Carbon Chemicals Corporation. Polyvinyl acetal resins. 2,162,680; June 13.
Robidoux, Finley T., Houston, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Electrode for well logging. 2,161,976; June 13.
Robin, Leo, and M. Van Rogger, Sprimont, Belgium. Change-speed device. 2,162,124; June 13.
Rockwell, Charles M., San Diego, Calif. Safety razor. 2,162,388; June 13.
Roehrl, Bruno C., assignor by mesne assignments to Agfa Ansco Corporation, Binghamton, N. Y. Marking means for film strips. 2,162,408; June 13.
Roosenstein, Hans O. (See Runge, W., and Roosenstein.)
Roosenstein, Hans O., and H. Hewel, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Cathode ray deflection apparatus. 2,161,977; June 13.
Rosaire, Esme E. (See West, Samuel S., assignor.)
Rosen, Oscar E., Detroit, Mich. Tracer for duplicating machines. 2,162,491; June 13.
Rosenbaum, Benjamin, New York, N. Y. Mechanical jointure. 2,161,978; June 13.
Rovner, Leopold, Chicago, Ill., assignor of one-half to Protherio Radium Memorial. Apparatus for detecting ionizing radiations of very low intensity. 2,161,979; June 13.
Rudman, Edward G., Nashua, and F. G. Ranney, Hudson, assignors to E. G. Rudman, Nashua, N. H., and S. S. Rudman, Brookline, Mass., copartners doing business as Old Colony Furniture Co. Extension table. 2,162,032; June 13.
Rudman, Sidney S., et al. (See Rudman, E. G., and Ranney, assignors.)
Ruedt, Julius C., and W. C. Redeen, assignors to Phoenix Hosiery Company, Milwaukee, Wis. Automatic welt turning mechanism. 2,162,121; June 13.
Runge, Wilhelm, and H. O. Roosenstein, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Elastically oscillating oscillator. 2,161,980; June 13.
Ruskin, Henry, Chicago, Ill. Razor. 2,161,981; June 13.
Ruston, John, Peckham, London, assignor to British Acoustic Films Limited, London, England. Push-pull and like amplifying systems. 2,162,389; June 13.
Ryan, Oval T., Kansas City, Kans., assignor of one-half to H. Lange, Conception, Mo. Bronchoscope. 2,162,681; June 13.
Rydin, Norval, Chicago, Ill. Train coupler. 2,162,390; June 13.
Saltsberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Alignment controlled packaging machine. 2,162,230; June 13.
Samelson, Edgar M., et al. (See Stanchfield, Therese, assignor.)

Samelson, Marcia W., et al. (See Stanchfield, Therese, assignor.)
Sandberg, Ray A., and E. J. Van Sickel, Waukegan, Ill., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Friction brake lever. 2,162,492; June 13.
Sandor, Felix E. L. (See Sandor, Nicholas, and F. E. L.)
Sandor, Nicholas, and F. E. L., Surbiton, Surrey, assignors to I. S. M. Limited, London, England. Display device. 2,161,982; June 13.
Sawtelle, Charles A., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake mechanism. 2,161,903; June 13.
Saxe, Walter E., Alhambra, Calif. Fluid-pressure counterbalance. 2,162,125; June 13.
Saxer, Adam E., Lakewood, Ohio. Counterbore. 2,162,284; June 13.
Schaefer, Carl A., assignor to Square D Company, Detroit, Mich. Electric switch. 2,162,642; June 13.
Schaefer, Max, Bloomfield, N. J., assignor to Eagle Pencil Company. Mechanical pencil. 2,161,889; June 13.
Scharf, Lou, assignor to The Riverside Company, New York, N. Y. Machine for closing and sealing articles in cellulose tubes. 2,162,472; June 13.
Schelbell, Gordon B., Maplewood, N. J., assignor to Wired Radio, Inc., New York, N. Y. Timed wired radio receiver. 2,161,890; June 13.
Schenk, Tamis C., assignor to Richmond Screw Anchor Co., Inc., Brooklyn, N. Y. Form tie. 2,162,592; June 13.
Schilding, George L., York, Pa. Antiskid device for vehicles. 2,162,643; June 13.
Schmidt, Edward. (See Dean, J. L., and Schmidt.)
Schmitz, Fred A., assignor to Globe-Wernicke Company, Norwood, Ohio. Drawer suspension. 2,162,318; June 13.
Schneider, Peter, Glendale, Long Island, and A. Bruchfeld, New York, N. Y. Trimming. 2,162,591; June 13.
Schnitzler, Erwin. (See Flemming, W., Dachlauer, and Schnitzler.)
Schoenberger, Robert E., Shaker Heights, assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas valve. 2,162,231; June 13.
Schoenberger, Robert E., Shaker Heights, assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas valve. 2,162,232; June 13.
Schoenberger, Robert E., Shaker Heights, assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Double burner valve. 2,162,233; June 13.
Schoenberger, W. J., Company, The. (See Schoenberger, Robert E., assignor.)
Schröter, Karl. (See Dawihl, W., and Schröter.)
Schubert, Clarence K., Madison, Wis. Eye testing device. 2,161,936; June 13.
Schuchat, Jonas, Chicago, Ill. Protective display wrapping. 2,162,644; June 13.
Schulze, Theodore, Cleveland, Ohio. Coffee brewer. 2,162,033; June 13.
Schulze, Walter, assignor to Allgemeine Elektricitatz Gesellschaft, Berlin, Germany. Insulation of magnetic powder for mass cores, in particular for high frequency purposes. 2,162,273; June 13.
Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treating hydrocarbons. 2,162,319; June 13.
Schunk, Joseph, assignor to The National Lock Washer Company, Newark, N. J. Compensating hinge for car window structures. 2,162,463; June 13.
Schütz, Eberhard, Berlin-Steglitz, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Conversion system. 2,162,493; June 13.
Schwab, Earl H. (See Warr, H. E., and Schwab.)
Schwabacher, Gerhard P. (See Benander, G. B., and Schwabacher.)
Schwartz, Erich, and K. Wellmann, assignors to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Electron tube with high ohmic wall coatings. 2,162,391; June 13.
Schweitzer & Conrad, Inc. (See Triplett, Hugh A., assignor.)
Scott, Douglas E., Chagrin Falls, assignor to The Chase Bag Company, Cleveland, Ohio. Paper bag. 2,162,285; June 13.
Scott, Norman D., Sanborn, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphated a,a'-dialkyl glycerine ethers and preparing them. 2,161,937; June 13.
Scott, Paul H., Long Island City, N. Y., assignor to The William F. Kenny Company, New York, N. Y. Cover mounting and locking means for the tanks of tank trucks. 2,162,446; June 13.
Scovill Manufacturing Company. (See Clemmons, Herbert D., assignor.)
Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing. 2,162,034; June 13.
Seebach, Fritz, Erkner, near Berlin, Germany, assignor to Bakelite Corporation, New York, N. Y. Resinous composition and making same. 2,162,035; June 13.
Seeburg, N. Marshall. (See Wallin, Fred E. A., assignor.)
Seeley, Lauren E., New Haven, Conn., assignor, by mesne assignments, to Utica Radiator Corporation, Utica, N. Y. Air conditioning apparatus. 2,161,834; June 13.
Seibel, Phillip H., St. Louis, Mo. Dentifrice containing and dispensing tooth brush. 2,162,447; June 13.
Separation Process Company. (See Breerwood, Charles H., assignor.)
Servel, Inc. (See Collins, W. D., and Nave, assignors.)
Servel, Inc. (See Lenning, Alvar, assignor.)
Seyfried, Arthur W. (See McCabe, J. J., and Seyfried.)
Shackleton, Jack, London, England, assignor to American Machine & Foundry Company, New York, N. Y. Application of sections of material to a running web. 2,162,566; June 13.
Shaeffer, George D., Bucyrus, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Road grader. 2,162,360; June 13.
Sharples Corporation, The. (See Jones, Leo D., assignor.)
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Burner control apparatus. 2,162,126; June 13.
Shell Development Company. (See Greensfelder, B. S., and Spaght, assignors.)
Shell Development Company. (See von Fuchs, George H., assignor.)
Shelton, Andrew B., Columbus, Ga. Selvage trimming temple for looms. 2,162,645; June 13.
Shiller, Hymen, Chicago, Ill. Test tube holder. 2,162,127; June 13.
Shipman, Clarence A., Los Angeles, Calif. Clutch mechanism. 2,162,646; June 13.
Shobel, Alfred J. (See Shobel, John, and A. J.)
Shobel, John, and A. J., Cleveland, Ohio. Safety lock for automobile doors and the like. 2,162,567; June 13.
Shoemaker, Alvin H., assignor of one-half to J. G. Smith, Seattle, Wash. Roller skate. 2,162,128; June 13.
Siebler, Oskar, Zwickau, Saxony, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany. Automobile. 2,162,320; June 13.
Siefert, Emil E., New Rochelle, N. Y. Carton for granular material. 2,162,286; June 13.
Siemens & Halske, Aktiengesellschaft. (See Bübler, Justus, assignor.)
Siemens & Halske Aktiengesellschaft. (See Marquardt, Kurt, assignor.)
Siemens & Halske Aktiengesellschaft. (See Matthies, K., and Ganswindt, assignors.)
Siemens & Halske Aktiengesellschaft. (See Mayer, Hans, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Hintze, Rudolf, assignor.)
Simmons, Leon E., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine transmission mechanism. 2,161,835; June 13.
Simonds Saw and Steel Company. (See Remington, Alfred M., assignor.)
Sinclair, Charles W., assignor, by mesne assignments, to The Kelsey-Hayes Wheel Company, Detroit, Mich. Brake drum. 2,161,904; June 13.
Singer Manufacturing Company, The. (See Boguhn, P., and Bochmann, assignors.)
Sisson, Vinton E., Winnetka, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Refrigerator car floor rack. 2,162,361; June 13.
Six, Willem, Eindhoven, Netherlands, assignor to Radio Corporation of America. Transformer device. 2,162,274; June 13.
Sizer, Albert W., Hessle, Kingston-Upon-Hull, England. Molding machine for plastic substances. 2,162,647; June 13.
Skelly Oil Company. (See Fry, C. L., and Leslie, assignors.)
Skinner, Percy A., Ionia, Mich. Supporting strut. 2,162,181; June 13.
Skutta, Theodor. (See Herrmann, R., and Skutta.)
Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Rectifier. 2,162,518; June 13.
Slusher, Harold R., assignor of one-half to C. R. Blackledge, Blandinsville, Ill. Rake. 2,162,648; June 13.
Smede, Lloyd, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,162,519; June 13.
Smith, Charles F. (See Miller, F. L., and Smith, assignors.)
Smith, George O., Bloomfield, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Asymmetrical conductor. 2,162,362; June 13.
Smith, Harry P., et al. (See Reynolds, Bennie S., assignor.)
Smith, Jacob G. (See Shoemaker, Alvin H., assignor.)
Smith, Lucian B. (See McKinley, C. W., Smith, and Dinsmore.)
Smith-Pert, George J. (See Forsyth, A. G., and Smith-Pert.)
Smith, Willard B., Vancouver, British Columbia, Canada. Bottle cap or closure. 2,162,182; June 13.
Smith, William A., Sr., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 2,162,036; June 13.
Smith, William J., Delaware City, Del. Foot control. 2,162,183; June 13.
Smith, William W., Buffalo, N. Y. Electric heating pad. 2,162,287; June 13.
Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.

Snell, Samuel A., Toledo, Ohio, assignor, by mesne assignments to The Logan Gear Company. Mechanism control. 2,162,593; June 13.

Snyder, John E., Lansing, Mich. Pipe coupling. 2,162,184; June 13.

Society of Chemical Industry in Basle. (See Miescher, K., and Wettstein, assignors.)

Society of Chemical Industry in Basle. (See Sonn, Adolf, assignor.)

Society of Chemical Industry in Basle. (See Widmer, G., Pisch and Jakl, assignors.)

Socony-Vacuum Oil Company. (See Moran, R. C., and James, assignors.)

Socony-Vacuum Oil Company. (See Moran, R. C., James and Fuller, assignors.)

Soderberg, Gustav A., assignor of one-half to The Rodine Corporation, Bridgeport, Conn. Apparatus for filling and closing collapsible metal tubes. 2,162,464; June 13.

Söll, Julius, Leverkusen-I. G. Werk, Germany, assignor, by mesne assignments, to Magnesium Development Corporation. Fluorine containing layer on light metals. 2,162,129; June 13.

Solomon, Nicholas B., Jr., and D. M. Carter, Blakely, Ga. Peanut cleaner. 2,162,392; June 13.

Somerville, William E., Coal City, Ill. Wire rope or cable. 2,162,130; June 13.

Somerville, William E., Coal City, Ill. High speed stranding or wire rope machine. 2,162,131; June 13.

Sonn, Adolf, Konigsberg, Germany, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Imidazolines. 2,161,938; June 13.

Sourwine, James A., Washington, D. C. Preparing an earthen fundation. 2,162,185; June 13.

Spaght, Monroe E. (See Greensfelder, B. S., and Spaght.)

Spalding, A. G., & Bros. (See Pierce, H. M., and Hermson, assignors.)

Spang, Joseph P., Quincy, Mass. Machine for dicing vegetables, fruit, meat, etc. 2,161,891; June 13.

Spang, Joseph P., Quincy, Mass. Meat-slitting machine. 2,162,409; June 13.

Special Equipment Company. (See Ewald, Mark, assignor.)

Spicer, William E. (See Sweeney, W. J., and Spicer.)

Spire, William H., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Hydraulic machine. 2,162,132; June 13.

Spire, William H., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Hydraulic force-multiplying machine. 2,162,133; June 13.

Spitz, Jacob J., Rochester, N. Y. Beverage cooler for bars. 2,162,649; June 13.

Spreckels Sugar Company. (See Resch, William J., assignor.)

Square D Company. (See Schaefer, Carl A., assignor.)

Squibb, E. R., & Sons. (See Gerlough, Tillman D., assignor.)

Squier, Ray, Clifton Springs, N. Y. Float. 2,162,134; June 13.

Stacey, Carmen M. (See Johnson, P. C., and Stacey.)

Staedtler, J. S. (See Kreutzer, Karl, assignor.)

Stanchfield, Therese, Los Angeles, assignor of one-half to M. W. Samelson and E. M. Samelson, Roscoe, Calif. Garment snap. 2,162,275; June 13.

Standard Oil Company (Ohio), The. (See Burk, R. E., and Hughes, assignors.)

Standard Oil Development Company. (See Mikeska, Louis A., assignor.)

Standard Oil Development Company. (See Miller, F. L., and Smith, assignors.)

Standard Oil Development Company. (See Peck, Edward B., assignor.)

Standard Oil Development Company. (See Sweeney, W. J., and Spicer, assignors.)

Standard Oil Development Company. (See Tilton, J. A., and Richardson, assignors.)

Standard Railway Equipment Manufacturing Company. (See Gilpin, Garth G., assignor.)

Standard Railway Equipment Manufacturing Company. (See Sisson, Vinton E., assignor.)

Starkweather, Howard W. (See Carter, A. S., and Starkweather.)

Stator Corporation. (See Comstock, Daniel F., assignor.)

Stephens, Benjamin F., Tulsa, Okla. Floor furnace. 2,162,410; June 13.

Stephens, Benjamin F., Tulsa, Okla. Forced air heating furnace. 2,162,411; June 13.

Stephens, Paul M., Columbia, Mo. Weight bearing hinge. 2,162,650; June 13.

Stevenson, James W., Riverside, Calif. Box stacker. 2,161,836; June 13.

Stipe, Lester E., Portland, Oreg. Ice cube tray for refrigerators. 2,162,363; June 13.

Stocker, William, assignor to Dixie Logging Tool Co., Chattanooga, Tenn. Log lifting cant hook. 2,162,668; June 13.

Sullivan Machinery Company. (See Joy, Joseph F., assignor.)

Sullivan Machinery Company. (See Lamberton, Ralph E., assignor.)

Sullivan Machinery Company. (See Paget, Win W., assignor.)

Sullivan Machinery Company. (See Simmons, Leon E., assignor.)

Sundem, Martin H., Vancouver, Wash. Traction chain fastener. 2,161,186; June 13.

Surface Combustion Corporation. (See Cone, Carroll, assignor.)

Surface Combustion Corporation. (See Weller, Harvey C., assignor.)

Sutton, Clarence M., Detroit, Mich. Collet. 2,161,939; June 13.

Sutton, Marion E., Jacksonville, Fla. Stump puller. 2,162,448; June 13.

Svet, Matija, Sheffield, Pa. Saw filing tool and gauge. 2,162,037; June 13.

Swank Products, Inc. (See Wood, Percy L., assignor.)

Swanson, Wilburn H., assignor to Ice Cooling Appliance Corporation, Morrison, Ill. Forced draft refrigerator. 2,161,983; June 13.

Sway, Boris. (See Miller, S. J., Sway and Breckel.)

Swazy, Earl F. (See Doty, A. S., and Swazy.)

Sweeney, William J., and W. E. Spicer, Baton Rouge, La., assignors to Standard Oil Development Company. Dehydrogenation of hydrocarbons. 2,161,984; June 13.

Szilard, Leo, New York, N. Y. Producing radio-active elements. 2,161,985; June 13.

Tampke, Hans. (See Kiesskalt, S., Tampke, Winnacker, and Weingaertner.)

Tar & Petroleum Process Company. (See Curran, Maurice D., assignor.)

Taylor, John J., Wadsworth, Ohio. Insulator. 2,162,288; June 13.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Beuermann, Wilhelm, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Gentsch, Erich, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kautter, Wolfgang, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Roosenstein, H. O., and Hewel, assignors.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Runge, W., and Roosenstein, assignors.)

Teleregister Corporation, The. (See Hicks, R. M., and Leroy, assignors.)

Teletype Corporation. (See Potts, Louis M., assignor.)

Tell, Karl G., Detroit, Mich. Guard for automobiles. 2,161,837; June 13.

Tell, William J., assignor to General Motors Corporation, Detroit, Mich. Hood support. 2,162,135; June 13.

Terres, Ernst, Berlin, Germany, and J. Moos, New York, and H. Ramser, Long Island City, N. Y., assignors to Edeleanu Gesellschaft m. b. H. Refining mineral oils by means of fluorinated aliphatic hydrocarbon compounds. 2,162,682; June 13.

Tharp, James H., Abilene, Tex. Grinding or honing machine. 2,162,187; June 13.

Thies, Heinrich P., Stuttgart-Zuffenhausen, Germany. Fermenting milk. 2,162,449; June 13.

Thomas, Adolph A., New York, N. Y., assignor to Radio Corporation of America. Electronic device. 2,162,234; June 13.

Thomas, Henry F., Tulsa, Okla. Massage apparatus. 2,161,986; June 13.

Thomas, John O. (See De Eds, F., Eddy, and Thomas.)

Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,162,393; June 13.

Thompson Products, Incorporated. (See Crawford, Frederick C., assignor.)

Thompson Products, Incorporated. (See Spire, William H., assignor.)

Thompson, Tom H., Detroit, Mich. Leaf spring and liner construction. 2,161,838; June 13.

Thomson, Peter, Wilmington, Del. Support for scaffolds. 2,162,651; June 13.

Thorp, Joel R, and H. W. Marsh, assignors to The Fulton Company, West Allis, Wis. Dimmer switch. 2,162,136; June 13.

Thurston, Paul L. (See Miller, J. H., Thurston, and Poole.)

Tifft, Emerson B., assignor to Draper Corporation, Hopedale, Mass. Spindle. 2,162,321; June 13.

Tilton, Joshua A., and R. W. Richardson, Baton Rouge, La., assignors to Standard Oil Development Company. Improving synthetic hydrocarbon oils. 2,161,987; June 13.

Tinnerman, Albert H. (See Tinnerman, George A., assignor.)

Tinnerman, George A., Rocky River, assignor to A. H. Tinnerman, Cleveland, Ohio. Fastener. 2,162,652; June 13.

Tobin, James, assignor to K. Tobin, Youngstown, Ohio. Motor vehicle muffler. 2,162,683; June 13.

Tobin, Katherine. (See Tobin, James, assignor.)

Toce, Charles A. (See Woodruff, W. N., Toce, and Herschede.)

Tollefson, Eleanora, administratrix. (See Tollefson, Orla A.)

Tollefson, Orla A., deceased, Columbia County, by E. Tollefson, administratrix, Antigo, Wis. Battery attachment. 2,162,322; June 13.

Tolstoouhov, Alexander V. (See Hopkinson, R., and Tolstoouhov.)

Torricelli, Decio, Springfield, Mass. Casket container. 2,162,137; June 13.

Trafficscope, Inc. (See Cooley, R. M., and Rand, assignors.)

Trafficante, Edward. (See Bolster, John M., assignor.)

Transportation Systems, Inc. (See Main, David W., assignor.)

Trible, Winthrop, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 2,162,038; June 13.

Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse. 2,162,540; June 13.

Trotter, William, San Francisco, and E. W. Wilkinson, Berkeley, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of phosphate ores. 2,162,494; June 13.

Trotter, William, San Francisco, and E. W. Wilkinson, Berkeley, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of ores. 2,162,495; June 13.

Troxel Manufacturing Company, The. (See Hayes, Arthur D., assignor.)

Trutner, Donald G., North Arlington, assignor to Alfred Hofmann & Company, West New York, N. J. Lamp sealing-in and exhausting machine. 2,162,209; June 13.

Tunney, Charles M. (See Bowers, E. E., and Tunney.)

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pattern control for shuttle changing mechanism. 2,162,289; June 13.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Revoker for weft replenishing loom. 2,162,290; June 13.

Tuthill, Howard B., and H. F. Caldwell, assignors to Oliver Machinery Company, Grand Rapids, Mich. Automatic bread slicing machine. 2,162,138; June 13.

Tybrick Corporation. (See Breakey, George B., assignor.)

Umphres, Thomas J., George West, Tex. Pipe racker. 2,162,653; June 13.

Unger, Chester E., assignor to The American Foundry Equipment Company, Mishawaka, Ind. Centrifugal abrasive projecting machine. 2,162,139; June 13.

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

United Autographic Register Co. (See Colwill, Richard H., assignor.)

United Engineering and Foundry Company. (See Manion, Charles H., assignor.)

United Shoe Machinery Corporation. (See Barton, William A., assignor.)

United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)

United Shoe Machinery Corporation. (See Elliott, Harold E., assignor.)

United Shoe Machinery Corporation. (See La Chapelle, F. N., and Ashley, assignors.)

United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)

United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)

U. S. Bedding Company. (See Gunn, Daniel R., Jr., assignor.)

United States Rubber Company. (See Hawley, Thomas G., Jr., assignor.)

Universal Cooler Corporation. (See Higham, W. W., and Morse, assignors.)

"Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co. (See Müller, Carl W., assignor.)

Upham, Burt F., Grimsby, Ontario, Canada. Feeding sheets to printing presses, etc. 2,162,450; June 13.

Utica Radiator Corporation. (See Seeley, Lauren E., assignor.)

Valsey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Pocket knife. 2,162,654; June 13.

Valsts Elektrotechiska Fabrika. (See Zapp, Walter, assignor.)

Van Cleef Bros. (See Frick, Carl E., assignor.)

Van Geel, Willem C. (See Emmens, H., and van Geel.)

Van Guilder, Walter, Oak Park, assignor to G-M Laboratories, Inc., Chicago, Ill. Electric magnet. 2,162,465; June 13.

Van Roggen, Mathieu. (See Robin, L., and Van Roggen.)

Van Sickel, Ernest J. (See Sandberg, R. A., and Van Sickel.)

Vastano, Frederick A., and J. Otten, Paterson, N. J. Sled. 2,162,039; June 13.

Vaughan, Berkeley S., assignor to L. Wheeler, Geneva, Ill. Holder for leaves, cards, and the like. 2,162,594; June 13.

Vaughn, Marguerite E., assignor to Natick Box and Board Co., Natick, Mass. Box. 2,162,235; June 13.

Vea, Norman D., Dover, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo. Sadiron attachment. 2,162,140; June 13.

Vedder, Edwin H. (See Dawson, J. W., and Vedder.)

Vehicular Parking, Ltd. (See Woodruff, W. N., Toce, and Herschede, assignors.)

Verhagen, Christian M., assignor to The Adlake Company, Chicago, Ill. Window construction. 2,162,364; June 13.

Vest, Edward T., Richmond, Va. Quick change edge trimmer. 2,162,141; June 13.

Victoreen, John A., South Euclid, Ohio. Potential measuring apparatus. 2,162,412; June 13.

Vlizi, Giuseppe, New York, N. Y. Musical string instrument. 2,162,595; June 13.

Visser, John, Grand Rapids, assignor, by mesne assignments, to F. L. Jacobs Co., Detroit, Mich. Ash receptacle assembly. 2,162,142; June 13.

Völkel, Walter, assignor to Deutsche Gold und Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Production of solid ammonium perphosphate. 2,162,655; June 13.

Von der Heide, Nomita, et al. (See de Murguiondo, Jose H., assignor.)

Von Fuchs, George H., Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif. Reactivation of clay. 2,162,202; June 13.

Von Issendorf, Jürgen, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Translating device. 2,162,533; June 13.

Von Zychlinski, Bruno. (See Herrmann, Deutsch, and von Zychlinski.)

Vreeland, George W., Maplewood, N. J., assignor to H. A. Brassert & Company, Chicago, Ill. Apparatus for the annealing of metal. 2,162,143; June 13.

Wagner, Martin. (See Krefft, H., Hänlein, and Wagner.)

Waldorf Paper Products Company. (See Lagaard, Alexander S. T., assignor.)

Walker, George H., assignor to Heenan & Froude Limited, Worcester, England. Hydraulic apparatus. 2,162,541; June 13.

Wallace, Henry A., Secretary of Agriculture of the United States of America, and his successors in office. (See De Eds, F., Eddy, and Thomas, assignors.)

Wallin, Fred E. A., Chicago, Ill., assignor to N. M. Seeburg. Coin separator. 2,161,885; June 13.

Walter, John C., Collingswood, N. J., assignor to Wired Radio, Inc., New York, N. Y. Transmission substitution system. 2,161,884; June 13.

Wanner, Edward F. (See Christie, L. M., Wanner and Brewer.)

Warr, Harry E., Wilkinsburg, and E. H. Schwab, Pittsburgh, Pa. Liquid dispensing apparatus. 2,161,988; June 13.

Warrington, Charles J. S., Westmount, Quebec, Canada, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Degreasing process. 2,162,656; June 13.

Waterman, L. E., Company. (See Larsen, Gabriel, assignor.)

Waterous, Donald M., assignor to Waterous, Ltd., Brantford, Ontario, Canada. Flat screen. 2,161,989; June 13.

Waterous, Ltd. (See Waterous, Donald M., assignor.)

Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Backstay for loom reeds. 2,161,787; June 13.

Watson, Charles G., Youngstown, Ohio. Metal coated roller. 2,161,905; June 13.

Waugh, Edward H., Woodinville, assignor to C. M. Ambrose, Seattle, Wash. Pump and metering device. 2,162,144; June 13.

Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Headlight tester. 2,161,886; June 13.

Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)

Webb, J. A., Belting Co. (See Hoppenstedt, Alfred W., assignor.)

Webster Electric Company. (See Campbell, Richard H., assignor.)

Webster, Willard M., Los Angeles, Calif. Ladder construction. 2,162,040; June 13.

Wecoline Products, Inc. (See Amthor, F. G., and Zinzalian, assignors.)

Wehrstein, Andreas, assignor to the firm Persil Gesellschaft Henkel & Voith m. b. H., Vienna, Austria. Producing commercial alkali phosphates. 2,162,657; June 13.

Weiland, Henry J., Wilmington, Del., and R. N. Lulek, South Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of anthraquinone vat dyestuffs. 2,162,203; June 13.

Weingaertner, Ernst. (See Kiesskalt, S., Tampke, Winnacker and Weingaertner.)

Weisbecker, Frank G., Glenside, assignor to Hosiery Patents Incorporated, Lansdale, Pa. Knitting machine. 2,162,660; June 13.

Weiss, John M., New York, N. Y., assignor to Calorider Corporation, Old Greenwich, Conn. Preparation of catalysts. 2,162,276; June 13.

Weith, George S., Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y. Denture. 2,162,204; June 13.

Weller, Harvey C., assignor to Surface Combustion Corporation, Toledo, Ohio. Furnace. 2,162,041; June 13.

Wellmann, Kurt. (See Schwartz, E., and Wellmann.)

Welser, Brinton, assignor to Chain Belt Company, Wilwaukee, Wis. High speed chain and sprocket transmission. 2,162,042; June 13.

Wenn, Floyd D., Binghamton, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Automotive brake lever. 2,162,684; June 13.

Wentz, Edward C., Sharpsville, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer. 2,162,496; June 13.

Werner, Frank C., Grand Rapids, Mich. Cookie machine mechanism. 2,162,145; June 13.

Wesley, Arthur, assignor to Burton-Dixie Corporation, Chicago, Ill. Studio couch. 2,162,146; June 13.

West, Samuel S., assignor to E. E. Rosaire, Houston, Tex. Electrical prospecting. 2,162,147; June 13.

Western Electric Company. (See Adams, Arthur H., assignor.)

Western Electric Company. (See Rearick, Edward C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Armstrong, George C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Barnes, Thomas D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beebe, Raymond H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, P. H., Hanna, and Oplinger, assignors.)
Westinghouse Electric & Manufacturing Company. (See Brooks, Hamilton, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cook, Willard G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cox, Joseph H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dawson, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dawson, J. W., and Vedder, assignors.)
Westinghouse Electric & Manufacturing Company. (See Diamond, Hymen, assignor.)
Westinghouse Electric & Manufacturing Company. (See Draper, Thomas, assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forbes, Allan D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gano, Harlan S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hadley, D. L., and Lockwood, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, R. F., and Baker, assignors.)
Westinghouse Electric & Manufacturing Company. (See Klein, P., and Wulsten, assignors.)
Westinghouse Electric & Manufacturing Company. (See Klemperer, Hans, assignor.)
Westinghouse Electric & Manufacturing Company. (See Knowles, Dewey D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lee, Paul R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lenehan, Bernard E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Leukert, Wilhelm, assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, Donald G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lotz, Albert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See May, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See McShane, Phelan, assignor.)
Westinghouse Electric & Manufacturing Company. (See Mikina, Stanley J., assignor.)
Westinghouse Electric & Manufacturing Company. (See O'Brien, Joseph F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Parsons, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peters, John F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rebhan, J., and Elsner, assignors.)
Westinghouse Electric & Manufacturing Company. (See Schiltz, Eberhard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Sleplan, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Smede, Lloyd, assignor.)
Westinghouse Electric & Manufacturing Company. (See von Issendorf, Jürgen, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wentz, Edward C., assignor.)
Westlund, Karl W., Huntington Park, and E. J. Dahlen, Inglewood, assignors to Ensign Carburetor Co. Ltd., Huntington Park, Calif. Gas filter. 2,162,043; June 13.
Wettstein, Albert. (See Miescher, K., and Wettstein.)
Wheeler, Leon. (See Vaughan, Berkeley S., assignor.)
Wheeling Steel Corporation. (See Hobstetter, C. A., Gillis, and Milton, assignors.)
Whitaker, James M., Tuckahoe, N. Y., assignor to Radio Corporation of America. Constant frequency oscillation generator. 2,162,520; June 13.
White, Eric L. C. (See Hardwick, J., and White.)
White, W. F. (See Anderson, Harley E., assignor.)
Whitehall Patents Corporation. (See Marinsky, Davis, assignor.)
Whiteley, Frank A., Covington, Ky. Air-conditioning appliance. 2,162,394; June 13.
Widmer, Gustave, Basel, W. Fisch, Richen, and J. Jakl, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of aminotriazines. 2,161,940; June 13.
Wieslander, Daniel H., Portland, Maine. Reconstructing and reinforcing plastered ceilings and the like. 2,162,658; June 13.
Wilkinson, Elliott W. (See Trotter, W., and Wilkinson.)
Willard, George T., Evanston, Ill. Railway tie plate and clip. 2,162,365; June 13.
Wille, Albert, Frankfort-on-the-Main, and G. Jaeger, Neu-Isenburg, assignors to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Recovery of beryllium compounds. 2,162,323; June 13.
Willett, Wilbur J., Atlanta, Ga. Reverse lock for motor vehicles. 2,162,188; June 13.
Williams, David S., Portland, Oreg. Trap seal valve. 2,162,236; June 13.
Williams, Paul C., Dallas, Tex. Brace. 2,162,189; June 13.
Willys-Overland Motors, Inc. (See Johnson, P. C., and Stacey, assignors.)
Wilmanns, Gustav, Wolfen, Kreis Bitterfeld, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic antihalation layer. 2,161,788; June 13.
Wilson Engineering Corporation. (See Wilson, L. F., and Lammedee, assignors.)
Wilson, Lester T., Willoughby, Ohio. Fishing line bobber. 2,162,659; June 13.
Wilson, Lyndon F., and J. M. Lammedee, assignors to Wilson Engineering Corporation, Chicago, Ill. Air compression system of variable radiation capacity. 2,162,148; June 13.
Wilson, Martin W., assignor to R. A. Lister & Company Limited, Dursley, England. Electric generating plant. 2,162,685; June 13.
Wilson, Walter J., Petersburg, Ind. Grinding machine. 2,162,044; June 13.
Wingfield, Grover L., Sandstone, W. Va. Animal trap. 2,161,789; June 13.
Winkler, Ralph E., Helena, Mont. Clothespin. 2,162,045; June 13.
Winnacker, Karl. (See Kiesskalt, S., Tampke, Winnacker and Weingaertner.)
Winthrop Chemical Company. (See Lehmann, Erich, assignor.)
Wired Radio, Inc. (See Scheibell, Gordon B., assignor.)
Wired Radio, Inc. (See Walter, John C., assignor.)
Wisniewski, Joseph, Mount Vernon, Wash. Swarm-controlling section hive. 2,162,413; June 13.
Wittcoff, Edward, University City, assignor to Caradine Hat Company, St. Louis, Mo. Hat. 2,162,149; June 13.
Wolf, Erich, assignor to Junkers-Flugzeug- und Motorenwerke Aktiengesellschaft, Dessau, Germany. Control of aircraft. 2,162,150; June 13.
Wood, Percy L., Attleboro, Mass., assignor to Swank Products, Inc. Clasp. 2,162,466; June 13.
Woolford, Bronson C., assignor to The Murray Company, Dallas, Tex. Magnetic separator. 2,162,190; June 13.
Woodruff, William N., and C. A. Toce, Houston, Tex., and W. F. Herschede, Cincinnati, Ohio, assignors, by mesne assignments, to Vehicular Parking, Ltd., Washington, D. C. Meter. 2,162,191; June 13.
Woolford, Custis S., South Orange, N. J., assignor to American Can Company, New York, N. Y. Solder wiper. 2,161,839; June 13.
Worrall, George H., Los Angeles, assignor to Mitchell Camera Corporation, West Hollywood, Calif. Heat radiator for projection machines. 2,162,324; June 13.
Worthington Ball Company, The. (See Reichard, W. E., and Olin, assignors.)
Worthington Pump and Machinery Corporation. (See Hirschberg, Charles A., assignor.)
Wranosky, William J., Freer, Tex. Valve for well pump rods. 2,162,151; June 13.
Wright Aeronautical Corporation. (See Browne, Kenneth A., assignor.)
Wright Aeronautical Corporation. (See Hill, Henry C., assignor.)
Wright Aeronautical Corporation. (See Kennedy, William D., assignor.)
Wright, Paul L. (See Baumfalk, J., Bennett, and Wright.)
Wrightwear Limited. (See Mills, Robert K., assignor.)
Wulle, William A., Chicago, Ill. Air conditioning system. 2,162,152; June 13.
Wulsten, Kurt. (See Klein, P., and Wulsten.)
Wyman, Le Roy L., Schenectady, N. Y., assignor to General Electric Company. Furnace heating element. 2,162,596; June 13.
Yoder, Ralph J., Fargo, N. Dak. Equipment for hearses. 2,162,192; June 13.
Youker, Mortimer A. (See Calcott, W. S., and Youker.)
Young, Leonard A. (See Oldham, John M., assignor.)
Young Radiator Company. (See Ramsaur, Walter R., assignor.)
Zahm, Joseph D. (See Lehn, J. U., and Zahm.)
Zapp, Walter, assignor to Valsts Elektrotechiska Fabrika, Riga, Latvia. Film feeding mechanism for photographic apparatus. 2,161,941; June 13.
Zecher, Gustav, Eindhoven, Netherlands, assignor to General Electric Company. Parallel connected gas filled discharge tube. 2,162,597; June 13.
Zerbe, Edward H., Grosse Pointe Park, Mich., assignor to The Burkhardt Company. Loose leaf binder. 2,162,153; June 13.
Zinke, Alois. (See Hönel, H., and Zinke.)
Zinzallan, George. (See Amthor, F. G., and Zinzallan.)
Zoerlein, Emil, assignor to Ford Motor Company, Dearborn, Mich. Cooling system for internal combustion engines. 2,161,942; June 13.
Zwickey, Clifford. (See Brandt, H. E., and Zwickey.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ash receiver. J. Visser. Re. 21,118; June 13.
Ball, Playing. H. T. Winterbauer. Re. 21,115; June 13.
Container, Indicator. D. H. Zell. Re. 21,119; June 13.
Curler, Hair. A. R. Visitacion. Re. 21,117; June 13.
Jack, Bumper. L. D. Nilson. Re. 21,112; June 13.
Phonographic announcing mechanism or the like. J. L. Franklin. Re. 21,111; June 13.
Pump rod assembly. C. E. Sulm and L. S. Ankenbruck. Re. 21,114; June 13.
Transformer. E. Wirz. Re. 21,116; June 13.
Valve. C. W. Sproull. Re. 21,113; June 13.

LIST OF PLANT INVENTIONS

Rose. K. Riesselmann. 330; June 13.

LIST OF DESIGN INVENTIONS

Amusement device. W. J. Wendler. 115,224; June 13.
Atomizer. F. A. Vuillemenot. 115,243; June 13.
Badge or similar article. W. M. Itton. 115,265; June 13.
Badge or similar article. A. Kemsley. 115,252; June 13.
Bag, Open mesh. J. E. Millett. 115,233; June 13.
Bedspread. R. Steinegg. 115,278; June 13.
Body, Freight car. G. A. Steuber. 115,240; June 13.
Box, Outlet. R. Z. Huff. 115,206; June 13.
Bracket for flower pots, Wall. C. Kiss. 115,208; June 13.
Brooch or similar article. A. Katz. 115,266; June 13.
Cabinet or similar article, Paper towel dispensing. J. E. Ahlborg. 115,189–90; June 13.
Cabinet and stand, Combined radio. D. Dillon. 115,199; June 13.
Case, Clock. L. I. Bruce. 115,195–6; June 13.
Case, Clock. O. Ciccarelli. 115,198; June 13.
Case, Combination vanity and lipstick. A. R. Botham. 115,194; June 13.
Casing or the like, Electic remote control. P. M. Fuller. 115,203; June 13.
Coffee maker. F. E. Wolcott. 115,226; June 13.
Comb. C. A. Moore. 115,214; June 13.
Container, Candy. T. H. Stough. 115,241; June 13.
Dispenser for powdered soap or the like. G. H. Packwood, Jr. 115,218–9; June 13.
Display unit, Handkerchief. S. Loeb. 115,210; June 13.
Dress. S. De Pasquale. 115,280–1; June 13.
Dress. P. Fracchia. 115,264; June 13.
Dress. H. Meisler. 115,267; June 13.
Dress. D. Novick. 115,269; June 13.
Dress. J. Roth. 115,270–1; June 13.
Dress ensemble. M. Backus. 115,282; June 13.
Dress ensemble. T. Coleman. 115,263; June 13.
Dress or similar article. M. S. Brown. 115,258; June 13.
Dress or similar article. M. S. Brown. 115,260; June 13.
Dress or similar article. L. B. Starr and S. E. Badanes. 115,277; June 13.
Dress or similar article, Ensemble. M. S. Brown. 115,257; June 13.
Dress or similar article, Ensemble. M. S. Brown. 115,259; June 13.
Fabric, Textile. L. Bry. 115,261–2; June 13.
Fabric, Textile. J. Rubin. 115,272–6; June 13.
Game board. F. Graef. 115,204; June 13.
Game board. E. D. Rose. 115,220; June 13.
Game device. M. M. Levy. 115,209; June 13.
Golf club head. H. P. G. Newsome. 115,216–7; June 13.
Golf game device or similar article. F. H. Cavignac. 115,197; June 13.
Hamper or similar article. H. Gleitsman. 115,230; June 13.
Handbag. R. Courtine. 115,249; June 13.
Handbag. J. Scala. 115,238; June 13.
Handwheel. C. A. Olson. 115,235; June 13.
Hat and scarf, Combined. A. Cohn. 115,228; June 13.
Hat or similar article. M. Nielson. 115,234; June 13.
Hatchet head. S. S. Vaughan. 115,256; June 13.
Holder, Combined salt and pepper. A. H. Johnson. 115,207; June 13.
Housing for electrically operated alarms, Bell. G. Schwartz. 115,239; June 13.
Knocker, Door. G. J. Stevens. 115,221; June 13.
Lamp or similar articles, Telephone. A. T. McShane and H. E. Tyler. 115,213; June 13.
Lamp or similar article, Table. H. Taylor. 115,242; June 13.
Marker, Lane. R. H. Osbrink. 115,236; June 13.
Mirror, Hand. M. H. Storch. 115,222; June 13.
Mirror head for washfountains. H. A. Mullett. 115,268; June 13.
Molding strip. W. L. Bonnell. 115,247; June 13.
Napkin, Paper. S. Nakashima. 115,215; June 13.
Ornament or the like, Desk. I. Defren. 115,251; June 13.
Panel board and housing for dental X-ray machines, Control. E. B. Graves and R. J. Stava. 115,231; June 13.
Paper, Decorative. C. W. von Ehrn. 115,279; June 13.
Pouch, Knife. E. M. Cook. 115,248; June 13.
Pump unit, Electric water. M. L. Williams. 115,244; June 13.
Receptacle for beer scrapers or the like. C. A. McBride. 115,211; June 13.
Receptacle for beer scrapers or the like and support, Combination. C. A. McBride. 115,212; June 13.
Ring, Finger. J. L. Crumpton. 115,250; June 13.
Robot, Astrological and mystic. J. P. Wilson. 115,225; June 13.
Sheet or similar article, Plastic. R. T. Billings. 115,246; June 13.
Shoe or similar article. L. W. Bagg. 115,191; June 13.
Shoe or similar article. S. Dorée. 115,200–1; June 13.
Slipper. E. Ziniti. 115,227; June 13.
Sofa or similar article. C. Stoll. 115,254; June 13.
Stand, Display. C. E. Taylor. 115,255; June 13.
Support for a bed or similar article, Pillow. H. E. Edelson. 115,229; June 13.
Tester, Battery. E. Arens. 115,245; June 3.
Tie or the like, Wall. F. B. Parks. 115,253; June 13.
Tool unit, Machine. L. H. Blood and L. F. Nenninger. 115,193; June 13.
Tool unit, Machine. E. D. Vancil and E. C. Raehrs. 115,223; June 13.
Tray or article of similar nature, Glass celery. T. C. Heisey. 115,205; June 13.
Tumbler. E. W. Fuerst. 115,202; June 13.
Uniform or similar article, Band. C. T. Habegger. 115,232; June 13.
Vibrator. F. L. Renga. 115,237; June 13.
Washer, Laundry. H. L. Belding. 115,192; June 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading wheel. F. J. Hohnhorst. 2,162,013; June 13.
Abrasive projecting machine. Centrifugal. C. E. Unger. 2,162,139; June 13.
Accordion bellows lock. J. M. Bolster. 2,162,054; June 13.
Acetylene, Catalytic polymerization of. A. S. Carter and H. W. Starkweather. 2,162,373; June 13.
Acetylene glycols, Preparation of. A. D. Macallum. 2,162,676; June 13.
Acids higher than acetic acid, Synthesis of organic. D. J. Loder. 2,162,459; June 13.
Acids, Treatment of fatty. F. G. Amthor and G. Zinzalian. 2,162,542; June 13.
Acoustic device. E. E. Mott. 2,162,270; June 13.
Adhesive. L. Davis. 2,162,194; June 13.
Adjustable coupling. A. F. Robertson. 2,161,956; June 13.
Aerated products. A. Musher. 2,162,585; June 13.
Agitator for food mixers. J. B. Kessel. 2,161,867; June 13.
Agricultural machine. L. D. Hillyer. 2,162,434; June 13.
Air cleaner. F. P. Frankford. 2,162,550; June 13.
Air compressor. R. E. Lamberton. 2,161,828; June 13.
Air compression system of variable radiation capacity. L. F. Wilson and J. M. Lammedee. 2,162,148; June 13.
Air conditioning. S. C. Coey. 2,162,158; June 13.
Air conditioning apparatus. H. E. Blood and R. R. Potter. 2,162,523; June 13.
Air conditioning apparatus. L. E. Seeley. 2,161,834; June 13.
Air-conditioning appliance. F. A. Whiteley. 2,162,394; June 13.
Air conditioning system. W. A. Wulle. 2,162,152; June 13.
Air conditioning system for automobiles. H. W. McPherson and H. L. Chisholm, Jr. 2,162,512; June 13.
Air conditioning unit for vehicles, Dry ice. R. F. Peo. 2,162,538; June 13.
Air, Device and method for determining upper air wind direction and velocity. H. B. Kaster. 2,162,582; June 13.
Air valve. W. C. Groeniger. 2,162,671; June 13.
Aircraft, Control of. E. Wolf. 2,162,150; June 13.
Aircraft, Rotary wing. E. Daland and H. A. Backus. 2,161,801; June 13.
Aircraft, Submersible. P. De Asis. 2,162,066; June 13.
Alkali phosphates, Producing commercial. A. Wehrstein. 2,162,657; June 13.
Alloy: *See*—
  Dental casting alloy. Metal alloy.
Alloy. A. R. MacGregor. 2,162,627; June 13.
Aminotriazines, Manufacture of. G. Widmer, W. Fisch, and J. Jakl. 2,161,940; June 13.
Ammonium perphosphate, Production of solid. W. Völkel. 2,162,655; June 13.
Amplifier. H. Mayer. 2,162,267; June 13.
Amplifier cascade with negative feedback. J. Bäbler. 2,161,844; June 13.
Amplifying systems, Push-pull and like. J. Ruston. 2,162,389; June 13.
Anchor, Marine. C. W. Filby. 2,161,906; June 13.
Anchor, Rail. G. A. Johnson. 2,161,925; June 13.
Anchored adjustable chair. W. W. Churchill. 2,162,060; June 13.
Animal trap. J. U. Lehn and J. D. Zahm. 2,161,874; June 13.
Animal trap. G. L. Wingfield. 2,161,789; June 13.
Antiseptic and making it. R. Hopkinson and A. V. Tolstoouhov. 2,162,014; June 13.
Antiskid device for vehicles. G. L. Schilling. 2,162,643; June 13.
Apparatus for detecting ionizing radiations of very low intensity. L. Royner. 2,161,979; June 13.
Apparatus for putting slack in anchoring assemblies of electrical conductors. U. C. Dunaway and F. M. Cunningham. 2,162,070; June 13.
Areaway construction. R. J. Martin. 2,162,628; June 13.
Article container. K. S. Kagen. 2,162,089; June 13.
Article holder. D. K. Copell. 2,161,854; June 13.
Ashpan. S. J. Hogan. 2,162,579; June 13.
Automobile. O. Siebler. 2,162,320; June 13.
Automobile protective device. A. L. McGregor. 2,162,099–100; June 13.
Backstay for loom reeds. W. M. Wattie. 2,161,787; June 13.
Backstop apparatus, Basketball. E. F. Hoppes, F. C. Garratt, Jr., and W. B. Evans. 2,162,085; June 13.
Bag: *See*—
  Paper bag.
Bag holder. F. P. Noffsinger. 2,162,113; June 13.
Bag, tea bag, and the like, Coffee. W. S. Patterson. 2,162,272; June 13.
Band clamp. B. Hillberg. 2,162,349; June 13.
Bar: *See*—
  Rail joint bar.
Barrel rack. A. M. Barrett. 2,162,497; June 13.
Bathing device, Infant's. D. M. Kennedy. 2,162,483; June 13.
Bathtub. A. H. Dean. 2,161,952; June 13.
Baton. E. L. Clark. 2,162,157; June 13.
Battery attachment. O. A. Tollefson. 2,162,322; June 13.
Bearing. R. R. Searles. 2,162,034; June 13.
Bearings, Method and apparatus for protecting. J. M. Hait. 2,161,862; June 13.
Beater. P. J. Musolf. 2,161,881; June 13.
Beating and mixing device. A. Ilische. 2,162,017; June 13.
Bed, Folding. A. G. Gilson. 2,161,958; June 13.
Beryllium compounds, Recovery of. A. Wille and G. Jaeger. 2,162,323; June 13.
Beverage cooling device. F. Kurpiewski. 2,162,260; June 13.
Binder composition. W. C. Chedic. 2,162,059; June 13.
Binder, Loose leaf. E. H. Zerbe. 2,162,153; June 13.
Block: *See*—
  Snatch block.
Blow-out preventer. M. C. Inge. 2,162,018; June 13.
Boat. A. P. Brush. 2,162,058; June 13.
Bobbing device. M. Ewald. 2,161,806; June 13.
Bolster spring. H. E. Anderson. 2,162,342; June 13.
Bolt, Heel. D. Holmes. 2,162,171; June 13.
Bolting or clamping device. H. M. Dreher. 2,162,611; June 13.
Bolt-up device, Automatic. L. L. Greterman. 2,162,167; June 13.
Bottle closure. J. R. Hoge. 2,162,455; June 13.
Bottle sterilizer. D. N. Peirce. 2,162,228; June 13.
Box: *See*—
  Cigar box.
Box. M. E. Vaughn. 2,162,235; June 13.
Box stacker. J. W. Stevenson. 2,161,836; June 13.
Brace. P. C. Williams. 2,162,189; June 13.
Bracket for attaching conduits to walls. J. A. Peterman. 2,162,340; June 13.
Brake drum. C. W. Sinclair. 2,161,904; June 13.
Brake drum, Composite. C. L. Eksergian. 2,162,072; June 13.
Brake lever, Automotive. F. D. Wenn. 2,162,684; June 13.
Brake lever, Friction. R. A. Sandberg and E. J. Van Sickel. 2,162,492; June 13.
Brake lever mechanism. D. A. Bird. 2,162,052; June 13.
Brake mechanism. F. L. Main. 2,161,899–900; June 13.
Brake mechanism. C. A. Sawtelle. 2,161,903; June 13.
Braking system, Fluid pressure. W. F. Oliver. 2,162,114; June 13.
Bread slicing machine, Automatic. H. B. Tuthill and H. F. Caldwell. 2,162,138; June 13.
Brick and wall, Building. G. B. Breakey. 2,162,417; June 13.
Broach. W. S. Praeg. 2,161,901; June 13.
Bronchoscope. O. T. Ryan. 2,162,681; June 13.
Brush, Rotary expanding fountain. B. S. Reynolds. 2,162,677; June 13.
Burner: *See*—
  Gas burner. Oil burner.
Burner construction. C. A. Hobstetter, J. P. Gillis, and A. L. Milton. 2,161,865; June 13.
Burner control apparatus. E. E. Shaw. 2,162,126; June 13.
Burner for crude petroleum, Atomizing. S. H. López. 2,161,785; June 13.
Burner ignition device, Oil. O. L. Bock. 2,162,572; June 13.
Burner valve, Double. R. E. Schoenberger. 2,162,233; June 13.
Bush for winding keys, Movable dustproof. H. Junghans. 2,162,309; June 13.
Button. A. Amrein. 2,161,780; June 13.
Cabinet door, Metal. A. Golden. 2,162,333; June 13.
Cabinet for oils or other fluent materials, Dispensing. A. Mel. Lowe. 2,162,625; June 13.
Calk device. H. M. Pierce and J. H. Hermson. 2,161,883; June 13.
Cam-lapping machine. H. S. Indge. 2,162,662; June 13.
Can turner. E. Laxo. 2,162,457; June 13.
Cap: *See*—
  Plug cap.
Cap or closure, Bottle. W. B. Smith. 2,162,182; June 13.
Cap strip for aircraft, Fabric attaching. C. de Ganahl 2,161,802; June 13.

Capacitor protective system, Series. R. E. Marbury 2,162,488; June 13.
Car construction. O. C. Duryea. 2,161,914–5; June 13.
Car floor rack, Refrigerator. V. E. Sisson. 2,162,361; June 13.
Car floor, Refrigerator. G. G. Gilpin. 2,162,078; June 13.
Car truck side frame. C. W. Howat. 2,162,307; June 13.
Carburetor. R. F. Bracke. 2,162,056; June 13.
Card holder. C. D. McClaughry. 2,162,025; June 13.
Carriage, Log. K. E. Evrell. 2,162,299; June 13.
Carrying and pouring appliance for thermos bottles and the like, Combined. I. M. Roberts. 2,161,935; June 13.
Carton. A. S. T. Lagaard. 2,162,556; June 13.
Carton. T. W. Mahone. 2,162,094; June 13.
Carton. L. W. Reaume. 2,162,119; June 13.
Carton for granular material. E. E. Siefert. 2,162,286; June 13.
Carton, Pouring. E. C. Meek. 2,162,632; June 13.
Cartons, Mechanism for aperturing. F. X. Malocsay. 2,161,877; June 13.
Case: *See*—
  Spectacle case.
Castings, Method of and apparatus for making artificial sausage. O. W. Becker. 2,161,908; June 13.
Casket container. D. Torricelli. 2,162,137; June 13.
Catalysts, Preparation of. J. M. Weiss. 2,162,276; June 13.
Cathode for electron discharge devices. A. W. Hull. 2,162,661; June 13.
Ceilings and the like, Reconstructing and reinforcing plastered. D. H. Wieslander. 2,162,658; June 13.
Centrifugal separator. L. D. Jones. 2,162,199; June 13.
Cereal product and making the same. F. A. Collatz. 2,162,376; June 13.
Chain and sprocket transmission, High speed. B. Welser. 2,162,042; June 13.
Chain fastener, Traction. M. H. Sundem. 2,162,186; June 13.
Chair: *See*—
  Anchored, adjustable chair.
Chair and table, Combined. L. Larsen. 2,162,560; June 13.
Change-speed device. L. Robin and M. Van Roggen. 2,162,124; June 13.
Characters to molded glass articles, Method and apparatus for fusing. A. G. Rez. 2,162,317; June 13.
Chemical process. A. S. Carter. 2,161,797–8; June 13.
Chemical process. F. C. Hahn. 2,161,815; June 13.
Cigar box, Individual. H. Jacobstein. 2,161,816; June 13.
Cigarettes, Manufacture of. W. F. M. Edwards. 2,162,424; June 13.
Circuit: *See*—
  Neutralizing circuit. Vacuum tube sweep circuit.
Circuit arrangement, Regenerative. W. Kautter. 2,162,470; June 13.
Circuit breaker. H. S. Gano. 2,162,577; June 13.
Circuit breaker. P. Klein and K. Wulsten. 2,162,534; June 13.
Circuit breaker, Electric. D. C. Prince. 2,162,588; June 13.
Circuit interrupter, Electric. K. Bauerschmidt. 2,162,569; June 13.
Clamp: *See*—
  Band clamp. Wiper casing clamp.
  Cover clamp.
Clasp. P. L. Wood. 2,162,466; June 13.
Clay, Reactivation of. G. H. von Fuchs. 2,162,202; June 13.
Cleaner: *See*—
  Air cleaner. Peanut cleaner.
Clip for applying sheathing to metallic members, Self-tightening. G. G. Greulich. 2,162,303; June 13.
Clock with attachment. J. Gorrien. 2,162,166; June 13.
Closure mounting, Swinging. F. A. Guth. 2,162,381; June 13.
Closure. C. R. Lundgren. 2,162,092; June 13.
Closure for containers, Measuring. E. B. and C. H. Duell. 2,162,068; June 13.
Clothespin. R. E. Winkler. 2,162,045; June 13.
Clutch. C. M. Eason. 2,162,071; June 13.
Clutch and power transmission. H. T. Avery and H. M. Dustin. 2,162,238; June 13.
Clutch mechanism. C. A. Shipman. 2,162,646; June 13.
Clutch mechanism for tapping attachments. G. W. Emrick. 2,162,250; June 13.
Coal, Treating. M. D. Curran. 2,162,064; June 13.
Coal, Treatment of. L. Kasehagen and H. H. Lowry. 2,162,221; June 13.
Coating composition, Cellulose ether. I. E. Muskat. 2,162,028; June 13.
Coating for fastenings. E. W. D. Laufer and C. P. Reis. 2,162,177; June 13.
Cock, Siphonproof ball. H. D. Clemmons. 2,162,573; June 13.
Coffee brewer. T. Schulze. 2,162,033; June 13.
Coin separator. F. E. A. Wallin. 2,161,885; June 13.
Collet. C. M. Sutton. 2,161,939; June 13.
Columns, Forming concrete foundation. W. J. Newman. 2,162,108; June 13.
Comb and brush set. F. Kapelman. 2,162,581; June 13.
Communication apparatus. R. H. Campbell. 2,162,368; June 13.
Communication system. R. H. Campbell. 2,162,369–72; June 13.
Communication system. R. H. Campbell. 2,162,547; June 13.
Compass, Beam. A. Ackron. 2,162,568; June 13.
Compass card oscillation, Automatic means for varying. P. Kolisman. 2,161,870–1; June 13.
Compounds of the pyrazolanthrone series. E. E. Beard. 2,162,205–6; June 13.
Compressor or pump. W. G. Pontis and C. H. Kindl. 2,162,639; June 13.
Condensation products of the phenol-formaldehyde type. H. Hönel and A. Zinke. 2,162,172; June 13.
Condenser: *See*—
  Electric condenser.
Condenser adjuster, Precision. V. Clarke. 2,162,061; June 13.
Condenser, Making electrical. E. C. Rearick. 2,161,888; June 13.
Conductor, Asymmetrical. G. O. Smith. 2,162,362; June 13.
Conduit forming mechanism. H. W. Parrish and L. G. Dickeson. 2,162,355; June 13.
Connection, Sucker rod. H. F. Richter. 2,162,123; June 13.
Connector: *See*—
  Electrical connector.
Connector. C. J. Lemont. 2,162,561; June 13.
Construction material. A. C. Fischer. 2,162,687; June 13.
Container: *See*—
  Article container. Shipping container.
  Casket container.
Container. H. A. Eggerss. 2,162,396; June 13.
Container. J. C. La Grua. 2,161,873; June 13.
Control apparatus. T. Draper. 2,162,501; June 13.
Control device. G. C. Armstrong. 2,162,521; June 13.
Control device for doughnut machines. A. S. T. Lagaard. 2,162,518; June 13.
Control device, Sensitive. R. R. Chappell. 2,162,296; June 13.
Control mechanism. K. P. Brace. 2,162,343; June 13.
Control of discontinuous processes, System for. R. S. Blodgett. 2,161,847; June 13.
Control system, Automatic. T. R. Harrison. 2,162,469; June 13.
Conversion system. E. Schiltz. 2,162,493; June 13.
Conveyer, Mold. C. Bryan. 2,162,419; June 13.
Cookie machine mechanism. F. C. Werner. 2,162,145; June 13.
Cooler for bars, Beverage. J. J. Spitz. 2,162,649; June 13.
Cooling means for internal combustion engines, Liquid. R. M. Hazen. 2,162,082; June 13.
Cooling system for internal combustion engines. E. Zoerlein. 2,161,942; June 13.
Copper from cuprammonium artificial silk waste lyes, Regeneration of. E. Kuss, O. Emert, and A. Hake. 2,162,176; June 13.
Copper salts, Manufacture of. E. Kuss, K. Horalek, and O. Emert. 2,161,825; June 13.
Cord, Cellulosic. M. Katz. 2,161,819; June 13.
Couch, Studio. D. R. Gunn, Jr. 2,162,503; June 13.
Couch, Studio. A. Wesley. 2,162,146; June 13.
Counterbalance, Fluid-pressure. W. E. Saxe. 2,162,125; June 13.
Counterbore. A. E. Saxer. 2,162,284; June 13.
Coupler, Trailer. W. C. Fry. 2,162,481; June 13.
Coupling: *See*—
  Adjustable coupling. Pipe coupling.
  Magneto coupling.
Coupling and guide, Combined sucker rod. J. J. Fitzpatrick. 2,162,426; June 13.
Coupling and like circuit, Intervalve. J. Hardwick and E. L. C. White. 2,161,959; June 13.
Cover and fastener, Basket. W. W. Hargroves. 2,162,305; June 13.
Cover clamp. A. D. Forbes. 2,162,480; June 13.
Cover mounting and locking means for the tanks of tank trucks. P. H. Scott. 2,162,446; June 13.
Cover or the like, Annealing. G. M. Croft. 2,161,779; June 13.
Crank structure, Adjustable. L. B. Huntington, Jr. 2,162,173; June 13.
Cream, Device for producing whipped. L. Marmorek. 2,162,096; June 13.
Crusher, Can. P. M. Pattison. 2,161,931; June 13.
Cuff, Shirt. H. F. O'Mealia. 2,162,536; June 13.
Cupric oxychloride, Manufacture of. E. Kuss, K. Horalek, and O. Emert. 2,162,091; June 13.
Curler, Hair. G. A. L. Linden. 2,162,262; June 13.
Curtain rod. W. C. Kenney. 2,162,674; June 13.
Cutter: *See*—
  Disk cutter. Gear cutter.
  Dough cutter. Pipe cutter.
Cutting compound. A. E. Dahlberg. 2,162,297; June 13.
Cutting compound. W. S. Guthmann. 2,162,454; June 13.
Cyclographic bridge balance indicator, Cathode ray. T. T. Goldsmith, Jr. 2,162,009; June 13.
Damper, Propeller shaft support, Vibration. E. N. Cole. 2,162,159; June 13.
Decoder. R. M. Hicks and E. R. Lopy. 2,162,170; June 13.
Decorative method and product. B. Asnes. 2,161,990; June 13.

Degreasing process. C. J. S. Warrington. 2,162,656; June 13.
Dental casting alloy. C. J. Grossman. 2,162,252–3; June 13.
Dental floss holder. F. J. Boldusoff. 2,162,240; June 13.
Dental pin. D. W. Phillips. 2,162,444; June 13.
Denture. G. S. Weith. 2,162,204; June 13.
Deposition furnace. C. J. Christensen. 2,161,950; June 13.
Deck laying tool. J. I. Kushima. 2,161,784; June 13.
Detergent composition and making same. S. J. Miller, B. Sway, and E. P. Breckel. 2,162,023; June 13.
Device for facilitating the turning of steering wheels. J. L. Barr and M. M. Overman. 2,161,907; June 13.
Diaphragm device. C. J. Jenny. 2,162,308; June 13.
Dimmer switch. J. R. Thorp and H. W. Marsh. 2,162,136; June 13.
Discharge tube, Parallel connected gas filled. G. Zecher. 2,162,597; June 13.
Disk cutter. J. S. Burns and A. N. Emmons. 2,161,994; June 13.
Dispenser and mixer, Liquid. E. R. Hacmac. 2,162,348; June 13.
Dispersions of coal and oil, Preparing. S. Kiesskalt, H. Tampke, K. Winnacker, and E. Weingaertner. 2,162,200; June 13.
Display device. N. and F. E. L. Sandor. 2,161,982; June 13.
Display stand. L. C. Galton. 2,162,576; June 13.
Dispersions, Process for coagulating. W. S. Calcott and M. A. Youker. 2,161,949; June 13.
Doll eye and lash. W. Lorenz and L. W. Pollack. 2,161,876; June 13.
Door: *See*—
Cabinet door. Register casing door.
Door. C. L. Post. 2,162,640; June 13.
Door latch. P. C. Johnson and C. M. Stacey. 2,162,673; June 13.
Door latch. A. A. Kucher. 2,162,405; June 13.
Door lock, Spring. F. Reavill. 2,162,031; June 13.
Dough cutter. A. S. T. Lagaard. 2,162,557; June 13.
Dough dividing machine construction. H. C. Rhodes. 2,162,641; June 13.
Draft arm for dispensing beverages. A. L. Koenig. 2,162,384; June 13.
Draft control device. R. W. Franks. 2,161,809; June 13.
Drawer suspension. F. A. Schmitz. 2,162,318; June 13.
Dresses and the like, Packaging. J. E. Eboli. 2,162,168; June 13.
Drier for coated disks, Compound. C. A. Johnstone. 2,162,336; June 13.
Drill: *See*—
Rock drill.
Drill chuck, Adjustable. G. H. Cote. 2,162,246; June 13.
Drilling rig, Portable. C. A. Hirschberg. 2,162,552–3; June 13.
Drive, Conveyer system. J. P. Lawrence. 2,162,688; June 13.
Drive, Electric motor. W. Leukert. 2,162,509; June 13.
Drive unit. L. J. Bishop. 2,161,894; June 13.
Dust removing apparatus. E. R. Johnson. 2,162,019; June 13.
Dye, Hair. E. Lehmann. 2,162,458; June 13.
Dyestuffs and intermediates of the pyrazolanthrone series. M. A. Perkins and C. E. Carr. 2,162,201; June 13.
Dyestuffs, Manufacture of azo. A. H. Knight. 2,162,507; June 13.
Dyestuffs of the anthraquinone series. R. N. Lulek and C. F. Belcher. 2,161,967; June 13.
Dyestuffs of the anthrimide-carbazole series. J. Deinet. 2,162,196; June 13.
Dyestuffs, Preparation of anthraquinone vat. H. J. Weiland and R. N. Lulek. 2,162,203; June 13.
Egg material, Treating liquid. M. C. Reynolds. 2,162,316; June 13.
Electric condenser. K. Marquardt. 2,162,471; June 13.
Electric discharge apparatus. L. Smede. 2,162,519; June 13.
Electric discharge device, Gaseous. R. L. Breadner and A. G. Pearce. 2,162,546; June 13.
Electric discharge device, Gaseous. H. Krefft, W. Hänlein, and M. Wagner. 2,161,824; June 13.
Electric fixture. G. B. Benander and G. P. Schwabacher. 2,162,545; June 13.
Electric generating plant. M. W. Wilson. 2,162,685; June 13.
Electric heater. F. B. Adam. 2,162,341; June 13.
Electric indicating device. W. Beuermann. 2,162,239; June 13.
Electric lines to a support, Means to secure. E. Gentsch. 2,161,860; June 13.
Electric machines, Testing. J. Rebhan and R. Elsner. 2,162,539; June 13.
Electric shaft furnace. K. Erdmann. 2,161,916; June 13.
Electric switch. A. Cianchi. 2,162,000; June 13.
Electric switch. I. E. McCabe. 2,162,098; June 13.
Electric switch. C. A. Schaefer. 2,162,642; June 13.
Electrical connector, Detachable. O. S. Field. 2,162,453; June 13.
Electrical connector, Separable. L. H. Loomis. 2,162,265; June 13.
Electrical control device. H. T. Avery. 2,162,237; June 13.
Electrical oscillation generator. C. S. Bull and W. S. Percival. 2,161,948; June 13.
Electrode, Discharge tube. S. A. Abbott. 2,162,414; June 3.
Electrode for well logging. F. T. Robidoux. 2,161,976; June 13.
Electrode for vacuum tubes. J. B. J. M. Abadie. 2,161,790; June 13.
Electrode holder. F. S. Miller. 2,162,633; June 13.
Electrode holder, Electric welding. L. J. Nickels. 2,162,112; June 13.
Electrode system and making same. H. Emmens and W. C. van Geel. 2,162,613; June 13.
Electrodes, Manufacturing large surface. E. Langguth. 2,162,385; June 13.
Electrolyte and method. D. E. Gray. 2,162,397; June 13.
Electronic device. A. A. Thomas. 2,162,234; June 13.
Engine: *See*—
Oil engine. Rotary engine.
Engine. A. J. Meyer. 2,162,514; June 13.
Engine oil scavenging device. W. D. Kennedy. 2,162,259; June 13.
Envelope transfer and feeding mechanism. A. Novick. 2,162,666; June 13.
Escapement mechanism. A. O. McCollum. 2,162,352; June 13.
Ester interchange with organic acids. H. W. de Ropp. 2,162,451; June 13.
Ether solution, Viscose-cellulose. R. W. Maxwell. 2,162,460; June 13.
Ethers and preparing them, Sulphated a,a'-dialkyl glycerine. N. D. Scott. 2,161,937; June 13.
Ethers, Plasticization of cellulose. I. E. Muskat. 2,162,027; June 13.
Ethyl chloride, Production of. W. Flemming, K. Dachlauer, and E. Schnitzler. 2,162,532; June 13.
Evaporator. W. W. Higham and S. H. Morse. 2,162,083; June 13.
Evaporator, Refrigerant. D. F. Newman. 2,162,586; June 13.
Exothermic reactions, Controlling. E. B. Peck. 2,161,974; June 13.
Extension table. E. G. Rudman and F. G. Ranney. 2,162,032; June 13.
Eye testing instrument. C. Hummon. 2,162,617; June 13.
Eye testing device. C. K. Schubert. 2,161,936; June 13.
Fabric in open state into a treating liquid, Apparatus for continuously feeding a web of. O. Gretler. 2,161,812; June 13.
Fabric, Making elastic. T. G. Hawley. 2,162,551; June 13.
Fastener: *See*—
Chain fastener.
Fastener. G. A. Tinnerman. 2,162,652; June 13.
Fasteners, Finger piece for the sliders of separable. D. Marinsky. 2,162,266; June 13.
Fastening-inserting machine. F. N. La Chapelle and J. W. Ashley. 2,161,827; June 13.
Fastening-supplying mechanism. W. A. Barton. 2,161,845; June 13.
Feed, Animal. C. C. Dawe. 2,162,609; June 13.
Feeding mechanism. M. G. Benjamin. 2,161,892; June 13.
Fence structure. C. Bauer. 2,161,944; June 13.
Filler for abrasive articles. A. L. Ball. 2,162,600; June 13.
Filling valve. C. E. Kerr. 2,162,404; June 13.
Film feeding mechanism for photographic apparatus. W. Zapp. 2,161,941; June 13.
Film strips, Marking means for. B. C. Roehrl. 2,162,408; June 13.
Film treating apparatus, Photographic. A. S. Howell. 2,162,016; June 13.
Filter: *See*—
Gas filter. Phase-sequence filter.
Nasal passage filter.
Filter. F. Manning. 2,161,831; June 13.
Fish bone and skin removing machine. L. and S. L. Laurin. 2,162,621; June 13.
Fish screen. L. Brilles. 2,162,325; June 13.
Fishing device. J. P. Boyce. 2,162,241; June 13.
Fishing line bobber. L. T. Wilson. 2,162,659; June 13.
Fishing lure. A. F. Baker. 2,162,049; June 13.
Flat screen. D. M. Waterous. 2,161,989; June 13.
Float. R. Squier. 2,162,134; June 13.
Float valve, Core barrel operated. M. L. Hacker. 2,162,578; June 13.
Floor furnace. B. F. Stephens. 2,162,410; June 13.
Floor rack. S. B. Haseltine. 2,161,923; June 13.
Fluid dispensing apparatus. V. D. Barker. 2,162,474; June 13.
Fluids, Fractionation of proteinaceous. T. D. Gerlough. 2,161,861; June 13.
Fluorine containing layer on light metals. J. Söll. 2,162,129; June 13.
Foam-forming constituents from liquids, Separation of. R. A. Dole and J. W. McBain. 2,162,379; June 13.
Food, Article of. F. H. Callahan. 2,161,910; June 13.
Food products, Freezing. C. J. Conn. 2,162,213; June 13.
Food products, Treatment of. C. J. Conn. 2,162,214; June 13.

Football and like games, Practice apparatus for. R. M. Evans. 2,162,073; June 13.
Foot control. W. J. Smith. 2,162,183; June 13.
Footwear. L. J. Golden. 2,162,008; June 13.
Force-multiplying machine, Hydraulic. W. H. Spire. 2,162,133; June 13.
Form for dams or the like, Movable. J. D. Jessen. 2,162,220; June 13.
Foundation, Preparing an earthen. J. A. Sourwine. 2,162,185; June 13.
Fountain, Ink. C. D. Baue. 2,161,943; June 13.
Fountain, Poultry. T. Perri. 2,162,314; June 13.
Frame: *See*—
Car truck side frame.
Frame and stand construction, Bicycle. H. L. Kraeft. 2,161,823; June 13.
Fruit cutting and discharging means. M. Ewald. 2,161,807; June 13.
Fruits, Apparatus for handling. W. G. Allen. 2,162,415; June 13.
Fuel consumption measuring apparatus. H. K. Madden. 2,162,093; June 13.
Fulling mill. R. L. Dawson. 2,162,003; June 13.
Furnace: *See*—
Deposition furnace. Floor furnace.
Electric shaft furnace. Heating furnace.
Furnace. H. C. Weller. 2,162,041; June 13.
Furnace heating element. Le R. L. Wyman. 2,162,596; June 13.
Furnace, Running a blast. K. Hörnemann. 2,162,402; June 13.
Fuse. H. A. Triplett. 2,162,540; June 13.
Fuse plug, Automatic. N. Dippel. 2,162,163; June 13.
Fuselage, Pressure. G. A. Page, Jr. 2,162,227; June 13.
Game counting device. J. D. McOsker. 2,162,631; June 13.
Game, Novel card. M. Goldman. 2,162,428; June 13.
Gas burner. J. E. Chambers. 2,162,374; June 13.
Gas filter. K. W. Westlund and E. J. Dahlen. 2,162,043; June 13.
Gas valve. R. E. Schoenberger. 2,162,231–2; June 13.
Gases, Apparatus for analyzing. O. G. Bennett. 2,162,395; June 13.
Gasoline, Producing. C. B. Hillhouse. 2,162,433; June 13.
Gauge: *See*—
Inclination gauge.
Gauge adjusting means. R. T. Hedfield. 2,162,306; June 13.
Gauge for boilers, Water level sight. L. J. Bordo. 2,161,849; June 13.
Gauge for resilient rollers of printing presses, Setting. S. E. Faught. 2,162,425; June 13.
Gear cutter, Universal. A. W. Klomp. 2,161,897; June 13.
Generator: *See*—
Electrical oscillator generator. Oscillation generator.
Magneto electric generator.
Glass, Composite shatterproof window. H. N. Atwood. 2,162,598; June 13.
Glider, Airplane. C. Fritzen. 2,161,921; June 13.
Grader, Road. G. D. Shaeffer. 2,162,360; June 13.
Grid glow tube. D. D. Knowles. 2,162,508; June 13.
Grill for cooking foodstuffs over campfires. H. D. Peoples. 2,162,636; June 13.
Grille, Air register. V. E. Moore. 2,162,562; June 13.
Grinder and juice extractor, Convertible meat. R. Pollner. 2,162,564; June 13.
Grinding and polishing, Method of and apparatus for. H. R. Herchenrider. 2,162,279; June 13.
Grinding machine. W. Trible. 2,162,038; June 13.
Grinding machine. W. J. Wilson. 2,162,044; June 13.
Grinding or honing machine. J. H. Tharp. 2,162,187; June 13.
Ground-fault protection. R. D. Evans. 2,162,531; June 13.
Guard for automobiles. K. G. Tell. 2,161,837; June 13.
Guide line, Illuminated. J. H. Greene. 2,162,302; June 13.
Gun sight, Adjustable. D. W. King. 2,162,090; June 13.
Hairpin. F. Belter. 2,161,946; June 13.
Handle for manually propelled tools, Operating. J. J. McCabe and A. W. Seyfried. 2,162,313; June 13.
Hanger: *See*—
Pipe hanger.
Hangers of wire, Machine for making garment. D. S. Boyles. 2,162,669; June 13.
Hat. E. Wittcoff. 2,162,149; June 13.
Headlight tester. I. A. Weaver. 2,161,886; June 13.
Headlights of motor vehicles, Apparatus for testing. G. M. Graham. 2,162,010; June 13.
Hearses, Equipment for. R. J. Yoder. 2,162,192; June 13.
Heat insulating receptacle. C. G. Munters. 2,162,271; June 13.
Heater: *See*—
Electric heater. Room heater.
Heater or boiler, Water. M. I. Larsen. 2,162,620; June 13.
Heating and cooling system. D. F. Comstock. 2,162,245; June 13.
Heating device for glass lehrs and the like. L. P. Piazzoli, Jr.. 2,162,030; June 13.
Heating furnace, Forced air. B. F. Stephens. 2,162,411; June 13.
Heating pad. Electric. W. W. Smith. 2,162,287; June 13.
Heating plate, Electric. E. Challet. 2,161,781; June 13.
Heating system. J. P. Kriechbaum. 2,162,337; June 13.
Heel. L. J. Bazzoni. 2,161,846; June 13.
Hinge for car window structures, Compensating. J. Schunk. 2,162,463; June 13.
Hinge, Weight bearing. P. M. Stephens. 2,162,650; June 13.
Hive, Swarm-controlling section. J. Wisniewski. 2,162,413; June 13.
Holder: *See*—
Article holder. Electrode holder.
Bag holder. License plate holder.
Card holder. Tube holder.
Dental floss holder.
Holder for leaves, cards, and the like. B. S. Vaughan. 2,162,594; June 13.
Holder without dead space, Gas. K. Jagschitz. 2,161,817; June 13.
Hood for bottles, Protective. S. H. Berch, D. Ray, and E. S. Chase. 2,161,993; June 13.
Hood lock, Dash manipulated. R. C. Pluecklhahn. 2,162,638; June 13.
Hood support. W. J. Tell. 2,162,135; June 13.
Hook: *See*—
Log lifting cant hook.
Humidifier. E. A. Reid. 2,162,462; June 13.
Hydantoins containing the sterol nucleus. K. Miescher and A. Wettstein. 2,161,928; June 13.
Hydraulic apparatus. G. H. Walker. 2,162,541; June 13.
Hydraulic machine. W. H. Spire. 2,162,132; June 13.
Hydraulic press. R. W. Dinzl. 2,161,804; June 13.
Hydraulic transmission. G. Pittman. 2,162,315; June 13.
Hydrocarbons, Dehydration of saturated. H. M. Guinot. 2,162,011; June 13.
Hydrocarbons, Dehydrogenation of. W. J. Sweeney and W. E. Spicer. 2,161,984; June 13.
Hydrocarbons, Treating. W. A. Schulze. 2,162,319; June 13.
Hydrocarbons, Treatment of. J. L. Farrell and G. A. Ibach. 2,162,300; June 13.
Hydrometer. E. Johnson. 2,162,020; June 13.
Ice creeper. P. J. Klitsch. 2,162,175; June 13.
Imidazolines. A. Sonn. 2,161,938; June 13.
Improvements relating to registering mechanisms. J. Fraser. 2,161,918–9; June 13.
Inclination gauge. L. B. Black. 2,162,602; June 13.
Indicator: *See*—
Cyclographic bridge balance indicator. Motor tuning indicator.
Indicator. L. E. Dodge. 2,162,197; June 13.
Ink and making same, Quick-setting printing. C. Ellis. 2,162,331; June 13.
Inking mechanism for duplicating machines. S. E. Gregory. 2,162,346; June 13.
Inkstand. F. M. Ashley. 2,161,843; June 13.
Inkwell for desks. J. H. Oxley. 2,161,832; June 13.
Insect trap. A. Goulard. 2,162,502; June 13.
Insole. H. M. Germanson. 2,162,468; June 13.
Instrument supporting device. C. L. Hunsicker. 2,161,962; June 13.
Insulating bodies, Manufacture of. B. Neuhof. 2,162,386; June 13.
Insulation of magnetic powder for mass cores, in particular for high frequency purposes. W. Schulze. 2,162,273; June 13.
Insulation testing. R. Higgins. 2,162,280; June 13.
Insulator. J. J. Taylor. 2,162,288; June 13.
Internal combustion tool. E. R. Boddinghouse. 2,162,416; June 13.
Iron: *See*—
Pressing iron.
Ironing and pressing machine, Laundry. A. Dahler. 2,162,215; June 13.
Jack or head, Hydraulic pump. R. B. Goode. 2,161,922; June 13.
Jar wrench. J. C. Richel. 2,162,445; June 13.
Joint: *See*—
Pipe joint.
Joint. A. E. Brickman and G. A. Gleason. 2,162,467; June 13.
Jointure, Mechanical. B. Rosenbaum. 2,161,978; June 13.
Joist structure. C. L. Lambert. 2,162,559; June 13.
Journal lubricator. J. J. Hennessy. 2,162,383; June 13.
Key, Collapsible tube. R. R. Benedict. 2,162,295; June 13.
Knife, Pocket. H. C. Vaisey. 2,162,654; June 13.
Knitting machine. F. J. Klenel and T. R. Fouts. 2,161,868; June 13.
Knitting machine. R. K. Mills. 2,162,024; June 13.
Knitting machine. F. G. Weisbecker. 2,162,660; June 13.
Knitting machine, Circular. J. H. Miller, P. L. Thurston, and L. W. Poole. 2,161,880; June 13.
Ladder attachment for supporting paint pails, Adjustable. R. Mansfield. 2,162,022; June 13.

Ladder construction. W. M. Webster. 2,162,040; June 13.
Lamp: *See*—
Writing and reading lamp.
Lamp sealing-in and exhausting machine. D. G. Trutner. 2,162,209; June 13.
Last and presser, Combination shoe. C. Johnson. 2,162,554; June 13.
Latch: *See*—
Door latch. Table leg latch.
Latch for vehicle doors, Automatic safety. E. B. Niswonger and H. E. Patchell. 2,161,930; June 13.
Leads, Producing graphite writing and drawing. K. Kreutzer. 2,162,311; June 13.
Leather, Preservation of tanned. A. W. Hoppenstedt. 2,162,015; June 13.
Lehr, Glass annealing. C. Cone. 2,162,377-8; June 13.
Lens and reflector, Combination. W. F. Allison, Sr. 2,161,842; June 13.
License plate holder. F. Palne. 2,162,634; June 13.
Lighter, Gas. J. Prendes. 2,162,587; June 13.
Lighter, Pocket pyrophoric. A. Goldberger. 2,162,345; June 13.
Lighting fixture. J. F. O'Brien. 2,162,515; June 13.
Lighting fixture, Electric. G. E. MacFadden. 2,162,626; June 13.
Lighting unit. L. F. Giese. 2,161,957; June 13.
Lighting unit for ranges. D. L. Hadley and E. H. Lockwood. 2,162,504; June 13.
Line justification method and means for typewriting machines. C. E. Ritterholz. 2,162,565; June 13.
Lips closing appliance for corpses. A. Ebert. 2,162,612; June 13.
Lipstick. L. L. Kole. 2,162,584; June 13.
Liquid dispensing apparatus. H. E. Warr and E. H. Schwab. 2,161,988; June 13.
Liquid in a tank, Measuring a quantity of. A. I. Odier. 2,162,180; June 13.
Liquid measuring and dispensing apparatus. J. Fraser. 2,161,920; June 13.
Liquid measuring device. C. S. Hazard. 2,162,254; June 13.
Lock: *See*—
Accordion bellows lock. Hood lock.
Door lock. Time lock.
Lock for automobile doors and the like, Safety. J. and A. J. Shobel. 2,162,567; June 13.
Lock for motor vehicles, Reverse. W. J. Willett. 2,162,188; June 13.
Lock for socket wrenches, etc. H. A. Rhinevault. 2,162,359; June 13.
Locking means for levers. E. Breitling. 2,161,850; June 13.
Locking mechanism for motor driven vehicle doors. W. H. Askew. 2,162,048; June 13.
Locomotive sanding apparatus. J. E. Davenport. 2,162,423; June 13.
Log lifting cant hook. W. Stocker. 2,162,668; June 13.
Looms, Lay construction for. C. R. Kronoff. 2,162,312; June 13.
Looms, Revoker for weft replenishing. R. G. Turner. 2,162,290; June 13.
Looms, Selvage trimming temple for. A. B. Shelton. 2,162,645; June 13.
Lubricant. F. C. Haas. 2,162,398; June 13.
Lubricant. F. L. Miller and C. F. Smith. 2,161,970; June 13.
Lubrication. E. H. Kocher. 2,161,821; June 13.
Lubricator: *See*—
Journal lubricator.
Luminaire, Direct lighting. L. C. Doane. 2,162,330; June 13.
Machine for and method of winding headlight coils. R. H. Beebe. 2,162,498; June 13.
Machine for closing and sealing articles in cellulose tubes. L. Scharf. 2,162,472; June 13.
Machine for configuring tubes. C. L. and S. L. Dewey. 2,162,327; June 13.
Machine for dicing vegetables, fruit, meat, etc. J. P. Spang. 2,161,891; June 13.
Machine for printing designs on fabrics. C. Masson. 2,162,440; June 13.
Machine for surface finishing. B. F. Bower. 2,161,947; June 13.
Magnet, Electric. W. Van Guilder. 2,162,465; June 13.
Magnetic separator. B. C. Woodford. 2,162,190; June 13.
Magneto coupling, Automatic. K. A. Browne. 2,162,243; June 13.
Magnets, Manufacturing permanent. G. B. Jonas. 2,161,926; June 13.
Magneto electric generator. L. S. Dunham and A. F. Robertson. 2,161,954; June 13.
Magneto mounting means. L. S. Dunham. 2,161,955; June 13.
Manifolding register. W. G. Borchers. 2,162,193; June 13.
Mannikin with eyes and lashes. S. Marcus. 2,161,878; June 13.
Mask, Shampoo. W. Davis. 2,162,608; June 13.
Massage apparatus. H. F. Thomas. 2,161,986; June 13.
Mast for radio broadcasting. A. E. Lingo. 2,162,675; June 13.
Material for manufacturing paper collars and the like. W. Müller and A. Closmann. 2,161,972; June 13.
Material in wrapping machines, Supply of. J. Crighton. 2,162,607; June 13.
Materials, Treatment of textile. D. Finlayson and R. G. Perry. 2,161,808; June 13.
Mattress, Heated. G. C. Kidwell. 2,162,021; June 13.
Meat-slitting machine. J. P. Spang. 2,162,409; June 13.
Meats, Method and compound for treating. H. E. Allen. 2,162,047; June 13.
Mechanical movement. H. Chrisman. 2,162,375; June 13.
Mechanism control. S. A. Snell. 2,162,593; June 13.
Mercury compound, Organic. C. N. Andersen. 2,162,211; June 13.
Metal alloy, Hard. W. Dawihl and K. Schröter. 2,162,574; June 13.
Metal, Apparatus for the annealing of. G. W. Vreeland. 2,162,143; June 13.
Metal, Coating. E. F. Izard. 2,162,618; June 13.
Metal composition. A. S. Doty and E. F. Swazy. 2,162,386; June 13.
Metallic strip, Method and aparatus for manufacturing. C. H. Manion. 2,162,407; June 13.
Metallurgical process. B. S. Lacy. 2,162,619; June 13.
Meter. W. N. Woodruff, C. A. Toce, and W. F. Herschede. 2,162,191; June 13.
Meter load compensation, Watt-hour. T. D. Barnes. 2,162,522; June 13.
Meter sealing device. W. H. Campbell. 2,162,548; June 13.
Milk, Fermenting. H. P. Thies. 2,162,449; June 13.
Milk tester. J. D. Case. 2,162,156; June 13.
Mill: *See*—
Fulling mill.
Mining machine transmission mechanism. L. E. Simmons. 2,161,835; June 13.
Mirror, Simulated bevel vanity. J. L. Richter and H. Goldblum. 2,162,590; June 13.
Moistening device for duplicating machines. E. M. Benello. 2,161,795; June 13.
Molding machine. H. and G. Grabowski. 2,162,079; June 13.
Molding machine. J. M. Oldham. 2,162,563; June 13.
Molding machine for plastic substances. A. W. Sizer. 2,162,647; June 13.
Mortar and pestle. E. L. Chott. 2,161,998; June 13.
Mosaic or marquetry designs, Forming. H. R. Dinsmore. 2,162,610; June 13.
Motor mount and adapter for mixers, churns, and the like, Removable. E. A. Heath. 2,162,400; June 13.
Motor tuning indicator. H. A. Reed. 2,162,120; June 13.
Mounting: *See*—
Closure mounting.
Mouse and rat trap. G. P. Livingston. 2,162,623; June 13.
Muffler, Motor vehicle. J. Tobin. 2,162,683; June 13.
Musical instrument. W. C. L. Morrison. 2,162,339; June 13.
Musical string instrument. G. Virzi. 2,162,595; June 13.
Nail feeding mechanism. G. C. Paxton. 2,161,973; June 13.
Nails, Method and aparatus for treating. C. C. Calvin. 2,162,155; June 13.
Nasal passage filter. G. Kjellsson. 2,162,583; June 13.
Needle threading device. R. I. Bissell. 2,162,154; June 13.
Netting construction. P. T. Pauls. 2,162,115; June 13.
Network protector, Automatic. J. S. Parsons. 2,162,516; June 13.
Neutralizing circuit. D. G. Little. 2,162,535; June 13.
Oil as gas, Burning. C. B. Hillhouse. 2,162,432; June 13.
Oil, Apparatus for treating. T. A. La Brecque. 2,161,964; June 13.
Oil burner. E. C. Ballman. 2,162,051; June 13.
Oil burner. O. L. Bock. 2,162,571; June 13.
Oil burner. A. L. Muren. 2,162,105; June 13.
Oil composition, Mineral. R. C. Moran, W. H. James, and E. W. Fuller. 2,162,208; June 13.
Oil engine. J. F. Anders. 2,162,473; June 13.
Oil, Lubricating. R. C. Moran and W. H. James. 2,162,207; June 13.
Oil, Treating crude. W. W. G. Ledbetter. 2,162,281; June 13.
Oils and other liquids by gaseous pressure, Apparatus for raising natural. N. F. Brown. 2,162,418; June 13.
Oils by means of fluorinated aliphatic hydrocarbon compounds, Refining mineral. E. Terres, J. Moos, and H. Ramser. 2,162,682; June 13.
Oils, Improving synthetic hydrocarbon. J. A. Tilton and R. W. Richardson. 2,161,987; June 13.
Oils, Refining hydrocarbon. B. S. Greensfelder and M. E. Spaght. 2,162,195; June 13.
Olefins, Production of. H. Bachr. 2,161,991; June 13.
Opener, Can. A. L. Maples. 2,162,095; June 13.
Opener, Carton. H. Blatt. 2,162,053; June 13.
Ore minerals, Flotation of fine oxide. C. H. Breerwood. 2,162,525; June 13.
Ores, Concentration of. W. Trotter and E. W. Wilkinson. 2,162,495; June 13.
Orientation indicating device. L. M. Potts. 2,162,358; June 13.

Oscillation generator, Constant frequency. J. M. Whittaker. 2,162,520; June 13.
Oscillator, Elastically oscillating. W. Runge and H. O. Rosenstein. 2,161,980; June 13.
Packaging and weighing machine. S. R. Howard. 2,162,219; June 13.
Packaging machine. A. W. Lindholm and G. W. Anderson. 2,162,263; June 13.
Packaging machine, Alignment controlled. L. L. Salfisberg. 2,162,230; June 13.
Packing, Compound helical. M. G. Kurth. 2,162,555; June 13.
Pad: *See*—
Heating pad.
Paint advertising device. W. J. Dallinger. 2,162,065; June 13.
Panel boards and parts thereof. W. H. Frank and L. E. Fisher. 2,162,344; June 13.
Paper bag. O. H. Hultin. 2,162,258; June 13.
Paper bag. D. E. Scott. 2,162,285; June 13.
Paper handling mechanism. H. Hefti. 2,162,430; June 13.
Paper machine, Cylinder. W. W. Metcalf. 2,162,097; June 13.
Paper making apparatus. C. W. Howard. 2,162,403; June 13.
Parking device. A. C. Hoecker. 2,162,257; June 13.
Pattern control for shuttle changing mechanism. R. G. Turner. 2,162,289; June 13.
Peanut cleaner. N. B. Solomon, Jr., and D. M. Carter. 2,162,392; June 13.
Pelts, Cutting fur. H. Linet. 2,161,830; June 13.
Pen barrel, Fountain. G. Larsen. 2,162,223; June 13.
Pencil, Mechanical. M. Schaefer. 2,161,889; June 13.
Pencil, Selective magazine. W. Durrler. 2,162,249; June 13.
Phase-sequence filter. B. E. Lenehan. 2,161,829; June 13.
Phenol and manufacturing same, Alkyl. L. P. Kyrides. 2,161,826; June 13.
Phonograph. E. W. Franck and H. E. Reeves. 2,162,006; June 13.
Phosphate ores, Concentration of. W. Trotter and E. W. Wilkinson. 2,162,494; June 13.
Photographic antihalation layer. G. Wilmanns. 2,161,788; June 13.
Photographic printing material. W. Krieger and H. Buchner. 2,162,456; June 13.
Photoelectric cells of the layer type and producing the same. E. Presser. 2,161,786; June 13.
Photoelectric tube. H. H. Geffcken and H. R. Richter. 2,161,859; June 13.
Photosensitive apparatus. J. W. Dawson and E. H. Vedder. 2,162,529; June 13.
Pigments, Titanium dioxide. K. W. Petersen. 2,161,975; June 13.
Pin: *See*—
Dental pin.
Pipe coupling. J. E. Snyder. 2,162,184; June 13.
Pipe cutter. H. D. Alston. 2,162,210; June 13.
Pipe hanger. D. B. Flower. 2,161,782; June 13.
Pipe joint. J. C. Helms and I. R. Devonald. 2,162,431; June 13.
Pipes, Apparatus for manufacturing or lining. D. A. Lyons and L. R. Earl. 2,161,968; June 13.
Pitman or like machine element. C. J. Hudson, 2,162,436; June 13.
Plaque for X-ray machines. T. S. Buckley. 2,162,420; June 13.
Plastic compound. N. B. Radabaugh. 2,162,387; June 13.
Platform mount and lift for windrowers. W. Hage. 2,161,814; June 13.
Plow, Snow. S. P. Peerboom. 2,162,635; June 13.
Plug: *See*—
Fuse plug. Two-way and waste plug.
Plug cap. G. B. Benander. 2,162,544; June 13.
Plugs, Manufacture spark. D. H. Corbin. 2,162,062; June 13.
Pool treatment system, Nonsiphoning swimming. R. B. Everson. 2,162,074; June 13.
Post. G. A. Gleason. 2,162,301; June 13.
Potash, Mining. R. Cross. 2,161,800; June 13.
Potential measuring apparatus. J. A. Victoreen. 2,162,412; June 13.
Power capacitor. H. Brooks. 2,162,475; June 13.
Power drive unit. L. J. Bishop. 2,161,893; June 13.
Power shaft unit for four-wheel drive. A. W. Herrington. 2,162,334; June 13.
Power transmission. O. A. Banner. 2,162,543; June 13.
Press: *See*—
Hydraulic press.
Press. W. Klocke. 2,161,869; June 13.
Pressing iron. M. M. Newman. 2,162,354; June 13.
Print forming and wrapping mechanism. E. F. Ness. 2,162,106; June 13.
Printing mechanism. L. W. Froyd. 2,162,427; June 13.
Printing press. A. S. Huckins. 2,161,866; June 13.
Propeller. P. A. Peterson. 2,161,932; June 13.
Propeller blades, especially aircraft propeller blades, Varying the pitch of. A. G. Forsyth and G. J. Smith-Pert. 2,161,917; June 13.
Prospecting, Electrical. S. S. West. 2,162,147; June 13.
Protective means, Overspeed. P. McShane. 2,162,513; June 13.
Protector: *See*—
Network protector.
Protector against overheating and lack of oil or oil pressure, Automatic. R. W. Jones. 2,162,174; June 13.
Pull to electrical conductors, Apparatus for imparting. U. C. Dunaway and F. M. Cunningham. 2,162,069; June 13.
Puller: *See*—
Stump puller.
Pump: *See*—
Well pump.
Pump and metering device. E. H. Waugh. 2,162,144; June 13.
Pump device, Breast. P. A. Frimand. 2,162,076; June 13.
Pump or motor, Hydraulic. E. K. Benedek. 2,161,794; June 13.
Pumping apparatus. J. L. Dean and E. Schmidt. 2,162,247; June 13.
Pumping unit for wells. G. T. Humphrey. 2,161,961; June 13.
Punch. C. E. Mange. 2,161,969; June 13.
Punch, Shank and bit. G. C. Pearson. 2,162,667; June 13.
Puzzle or educational toy. L. F. Galeazzo. 2,162,278; June 13.
Rack: *See*—
Barrel rack. Floor rack.
Car floor rack.
Racker, Pipe. T. J. Umphres. 2,162,653; June 13.
Radiating apparatus. R. F. James and E. B. Baker. 2,162,505; June 13.
Radiator for projection machines, Heat. G. H. Worrall. 2,162,324; June 13.
Radio-active elements, Producing. L. Szilard. 2,161,985; June 13.
Radiographs, Making. T. S. Buckley. 2,161,796; June 13.
Radio receiver, Timed wired. G. B. Scheibell. 2,161,890; June 13.
Rail bonds, Installing. H. H. Febrey. 2,162,164; June 13.
Rail-chairs to sleepers, Securing of. A. C. Clow. 2,162,604; June 13.
Rail joint bar. V. C. Armstrong. 2,162,293; June 13.
Rail supporting device, Track. H. M. Austin and J. A. Muir. 2,162,599; June 13.
Rake. H. R. Slusher. 2,162,648; June 13.
Rake, Side delivery. F. D. Jones and H. Moschel. 2,162,506; June 13.
Range and table, Combination. H. M. Herrin. 2,162,012; June 13.
Ray deflection apparatus, Cathode. H. O. Roosenstein and H. Hewel. 2,161,977; June 13.
Razor. H. Ruskin. 2,161,981; June 13.
Razor, Safety. C. M. Rockwell. 2,162,388; June 13.
Receiver without transformer, Universal. P. Kapteyn. 2,162,350; June 13.
Receptacle: *See*—
Heat insulating receptacle.
Receptacle. A. Legge. 2,162,224; June 13.
Receptacle. C. A. McBride. 2,162,629; June 13.
Receptacle and closure therefor. W. Lockhart. 2,162,664; June 13.
Receptacle and closure therefor, Metallic. W. Lockhart. 2,162,663; June 13.
Receptacle assembly, Ash. J. Visser. 2,162,142; June 13.
Receptacle support, Electric. W. S. Adelman. 2,161,841; June 13.
Rectifier. J. Slepian. 2,162,518; June 13.
Rectifier, Selenium. A. Lotz. 2,162,487; June 13.
Refrigerating system. R. F. Peo. 2,162,537; June 13.
Refrigerators, Control arrangement for. R. Herrmann and T. Skutta. 2,162,256; June 13.
Register casing door. R. H. Colwill. 2,162,422; June 13.
Register locking mechanism. G. C. Coll. 2,162,605; June 13.
Regulator: *See*—
Speed regulator. Window regulator.
Regulator with gyroscopic antihunting. C. R. Hanna. 2,162,482; June 13.
Reed instrument, Bellows-operated. O. Heim. 2,162,382; June 13.
Reflector-heater with sheathed electric heating elements. C. Beaucolin. 2,161,793; June 13.
Refrigerating apparatus. H. E. Cossin. 2,161,912; June 13.
Refrigerating apparatus of the compression type. R. Hintze. 2,161,960; June 13.
Refrigeration. A. Lenning. 2,161,875; June 13.
Refrigerator. W. D. Collins and A. E. Nave. 2,161,852; June 13.
Refrigerator, Forced draft. W. H. Swanson. 2,161,983; June 13.
Regulator for vehicle windows. S. W. Nicholson. 2,162,140; June 13.
Relay. R. L. Peek, Jr. 2,162,356; June 13.
Relay, Slip frequency. F. H. Milliken. 2,161,929; June 13.
Resinous bodies, Treating. E. C. de Stubner. 2,161,803; June 13.

Resinous composition and making same. F. Seebach. 2,162,035; June 13.
Resins from crude solvent naphtha, Phenol-modified. W. H. Carmody. 2,161,951; June 13.
Resins, Manufacture of artificial. W. O. Herrmann, H. Deutsch, and B. von Zychlinski. 2,162,616; June 13.
Resins, Polyvinyl acetal. H. F. Robertson. 2,162,678–80; June 13.
Resuscitation apparatus. W. Branower. 2,162,242; June 13.
Ribbon mechanism. R. C. Coxhead. 2,161,856; June 13.
Road-building apparatus. J. H. Mosel. 2,162,665; June 13.
Rock drill. W. A. Smith, Sr. 2,162,036; June 13.
Rod: *See*—
Curtain rod.
Roller for offset presses, Water control. R. C. Delaplane. 2,162,248; June 13.
Roller, Metal coated. C. G. Watson. 2,161,905; June 13.
Room heater. R. Hoffman. 2,162,084; June 13.
Rope or cable, Wire. W. E. Somerville. 2,162,130; June 13.
Rotary engine. E. E. Bowers and C. M. Tumey. 2,162,055; June 13.
Rotor for magneto electric generator. L. S. Dunham and A. F. Robertson. 2,161,953; June 13.
Rubber compositions. W. E. Reichard and R. R. Olin. 2,161,934; June 13.
Saddle, Bicycle. A. D. Hayes. 2,162,399; June 13.
Sadiron attachment. N. D. Vea. 2,162,140; June 13.
Safety device. N. C. Cooper. 2,162,326; June 13.
Sailboat mast bending. T. E. Mead. 2,162,441; June 13.
Samples, Taking. W. J. Resch. 2,162,122; June 13.
Sanding and spreading device. O. C. Middleton. 2,162,103; June 13.
Sash construction, Window. E. F. Chaffee. 2,161,996; June 13.
Scale, Motor truck. C. A. Lindsay. 2,162,622; June 13.
Scavenger, Exhaust. T. Brenner. 2,161,895; June 13.
Scintillating sign. W. G. McIlvanie. 2,161,927; June 13.
Scraper. H. A. Perry. 2,162,117; June 13.
Screen: *See*—
Fish screen. Flat screen.
Seal, Fluid. E. D. Mosher. 2,162,104; June 13.
Seal, Oil. H. C. Hill. 2,162,218; June 13.
Sealing device. W. W. Paget. 2,161,833; June 13.
Sealing means for centrifugal pump impellers. R. G. Le Tourneau. 2,162,486; June 13.
Searchlight controller. J. F. Peters. 2,162,517; June 13.
Sections of material to a running web, Application of. J. Shackleton. 2,162,566; June 13.
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Separator of special material for paper stock treating engines. A. L. Bolton. 2,161,848; June 13.
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Sewing machine, Shoe. B. T. Leveque. 2,162,406; June 13.
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Shackle, Vehicle. D. B. Flickinger. 2,162,479; June 13.
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Shaping tool. J. E. Gabel. 2,162,165; June 13.
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Sharpener, Scythe. C. E. Delaney. 2,162,004; June 13.
Sheet-handling apparatus. L. Hopkins. 2,162,580; June 13.
Sheets to printing presses, etc., Feeding. B. F. Upham. 2,162,450; June 13.
Shield, Spark plug. H. Rabezzana. 2,162,118; June 13.
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Shock absorber. J. J. Grebe. 2,161,811; June 13.
Shock absorber for bicycles and similar type vehicles. A. B. Casper. 2,162,476; June 13.
Shock absorber or the like damping means, Hydraulic. F. G. G. Armstrong. 2,162,292; June 13.
Shock absorbing device. G. J. Kessenich. 2,161,820; June 13.
Shockproof device. J. W. May. 2,162,511; June 13.
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Signal for motor vehicles, Electric. A. B. Cotant. 2,162,161; June 13.
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Soap. R. F. Heald. 2,162,255; June 13.
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Speed cup balancing machine. C. W. McKinley, L. B. Smith, and C. B. Dinsmore. 2,162,101; June 13.
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Spindle. E. B. Tifft. 2,162,321; June 13.
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Spreader for treating liquids. L. S. Korsen. 2,162,310; June 13.
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Sprocket. J. B. Doyle. 2,161,913; June 13.
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Thermostatic valve. J. E. Jack. 2,161,924; June 13.
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Threads of artificial filaments, Manufacture and treatment of. J. B. Dove. 2,162,575; June 13.
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Tie plate and clip, Railway. G. T. Willard. 2,162,365; June 13.
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Time lock, Delayed control. W. C. Miller. 2,162,442; June 13.
Time-of-day announcing system. J. Baumfalk, W. Bennett, and P. L. Wright. 2,161,945; June 13.
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Tool and gauge, Saw filing. M. Svet. 2,162,037; June 13.
Tool for tube forming machines, Forming. C. L. and S. L. Dewey. 2,162,328; June 13.
Tooth brush, Dentifrice containing and dispensing. P. H. Seibel. 2,162,447; June 13.
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Tobacco rod in cigarette-making machines, Regulating the. C. W. Miller. 2,162,443; June 13.
Top for vehicle bodies, Convertible. A. H. Haberstump. 2,162,347; June 13.
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Tracer for duplicating machines. O. E. Rosen. 2,162,491; June 13.
Tractor, Continuous-track. A. W. Herrington. 2,162,198; June 13.
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Trailer hitch. A. Paul, Jr. 2,162,029; June 13.
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Train control system for railroads, Coded. W. H. Reichard. 2,162,461; June 13.
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Tray loosening means, Refrigerator. L. S. Chadwick. 2,162,244; June 13.
Tray, Quick freezing ice. J. H. de Murguiondo. 2,162,162; June 13.
Trimmer, Quick change edge. E. T. Vest. 2,162,141; June 13.
Trimming. P. Schneider and A. Bruchfeld. 2,162,591; June 13.
Tripod top, Adjustable. C. Bornmann. 2,161,909; June 13.
Truck. J. F. Joy. 2,161,818; June 13.
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Discharge tube. Photoelectric tube.
Grid glow tube. Smoking tube.
Tube and forming the same, Finned. E. E. Ledbetter. 2,161,898; June 13.
Tube holder, Test. H. Shiller. 2,162,127; June 13.
Tube in which the current is limited, Gas-filled. H. Diamond. 2,162,478; June 13.
Tube, Making a torque. F. C. Metthael and N. C. Dooley. 2,162,510; June 13.
Tube with high ohmic wall coatings, Electron. E. Schwartz and K. Wellmann. 2,162,391; June 13.
Tubes, Apparatus for filling and closing collapsible metal. G. A. Soderberg. 2,162,464; June 13.
Tubes, shells, or the like, Apparatus for shaping. S. Khatunzeff. 2,161,963; June 13.
Tuner, Automatic. L. J. Leishman. 2,162,282; June 13.
Turbulence strip for radiator tubes. W. R. Ramsaur. 2,161,887; June 13.
Two-way test and waste plug. J. Huber. 2,161,783; June 13.
Vacuum tube sweep circuit. F. N. Jacob. 2,162,335; June 13.
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Valve and making the same. F. C. Crawford. 2,162,063; June 13.
Valve assembly. H. H. Bixler. 2,162,570; June 13.
Valve for combustion engines, Internally cooled. C. Gross. 2,162,304; June 13.
Valve for compressed air reservoirs, Automatic drain. F. P. Frankford. 2,162,549; June 13.
Valve for tires and the like. O. Bothe. 2,162,603; June 13.
Valve for well pump rods. W. J. Wranosky. 2,162,151; June 13.
Valve with swing check and back pressure control, Automatic air. W. C. Groeniger. 2,161,813; June 13.
Vapor electric converter. H. Klemperer. 2,162,484; June 13.
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Varnish. J. R. L. Martin. 2,162,225; June 13.
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Ventilating and heating apparatus, Vehicle. A. R. Lintern and P. J. Miller. 2,162,439; June 13.
Ventilation for motor vehicles, Regulatable radiator. J. A. Buyck. 2,162,526; June 13.
Ventilator hood. F. Camerino. 2,162,421; June 13.
Ventilator, Lavatory. L. N. Harbeke. 2,161,863; June 13.
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Vision apparatus. R. M. Cooley and R. R. Rand, Jr. 2,162,160; June 13.
Vitamin concentrates, Preparing. J. A. Patch. 2,161,882; June 13.
Washing machines, Feeding means for. E. C. Chandler. 2,162,277; June 13.
Water for the purpose of reducing hardness, Electrical treatment of. A. J. Pierpoint and R. H. Crouch. 2,161,933; June 13.
Wave apparatus, Permanent. F. G. Hall. 2,162,081; June 13.
Wave modulator arrangement, Carrier. C. S. Cockerell. 2,161,851; June 13.
Welding and tempering. A. M. Remington. 2,162,229; June 13.
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Well pump. W. F. Cox. 2,162,001; June 13.
Wells, Means for flowing. J. R. Long. 2,161,966; June 13.
Welt turning mechanism, Automatic. J. C. Ruedt and W. C. Redeen. 2,162,121; June 13.
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Wheel banking device. F. H. Dreyer. 2,162,067; June 13.
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Window. W. D. Bayley. 2,162,601; June 13.
Window and method of glazing same, Detention. W. D. Bayley. 2,161,792; June 13.
Window assembly. W. D. Bayley. 2,161,791; June 13.
Window construction. C. M. Verhagen. 2,162,364; June 13.
Window regulator mechanism. B. S. Floraday. 2,162,075; June 13.
Window regulator, Vehicle. S. W. Nicholson. 2,162,109; June 13.
Wiper arm, Windshield. J. I. Liner. 2,161,965; June 13.
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Yarn carrier of knitting machines. C. G. Newton. 2,162,107; June 13.
Yeast, Production of. J. Hilbers. 2,162,217; June 13.

CLASSIFICATION OF PATENTS

ISSUED JUNE 13, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Air Control Products, Inc., Muskegon, Mich. Registers, grilles, and damper control sets, etc. Serial No. 418,396; June 20. Class 34.

American Ferment Co., Inc., New York, N. Y. Dentifrice. Serial No. 418,911; June 20. Class 6.

American Laundry Machinery Company, The, Cincinnati, Ohio. Drying machines. Serial No. 417,950; June 20. Class 24.

American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Drying machines. Serial No. 418,760; June 20. Class 24.

American Varnish Company, The, Chicago, Ill. Liquid paint enamels. Serial No. 418,699; June 20. Class 16.

Appeal Inc., Spokane, Wash. Bread. Serial No. 407,710; June 20. Class 46.

Arlen, George, Foot Health Center Ltd., The, New York, N. Y. Foot powder. Serial No. 416,886; June 20. Class 6.

Asiatic Microphone Laboratory, Incorporated, Youngstown, Ohio. Microphones, phonograph pickups, filters, etc. Serial No. 411,074; June 20. Class 21.

Atlantic Refining Company, The, Philadelphia, Pa. Paraffin wax. Serial Nos. 416,887–8; June 20. Class 15.

Atrolene Oil Company, Lowel, Mass. Lubricating oil, gasoline, and greases. Serial No. 405,840; June 20. Class 15.

Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Fresh frozen berries, fruits, and vegetables; canned berries, etc. Serial No. 412,935; June 20. Class 46.

Axton-Fisher Tobacco Company, The, Louisville, Ky. Cigarettes. Serial No. 419,065; June 20. Class 17.

Bangor Mills, Inc., Bangor, Pa. Dresses. Serial No. 403,674; June 20. Class 39.

Barlow, William V., doing business as The Jitterbug Co., Jacksonville, Fla. Printed cards and forms. Serial No. 416,242; June 20. Class 38.

Bell Textile Company, New York, N. Y. Sheets and pillow cases. Serial No. 416,244; June 20. Class 42.

Bireley's Inc., Hollywood, Calif. Beverages, fruit juices, and fruit juice products. Serial No. 419,174; June 20. Class 45.

Black & Decker Manufacturing Company, The, Towson, Md. Electrical apparatus and machines and accessories. Serial No. 418,234; June 20. Class 21.

Bonney Forge & Tool Works, Allentown, Pa. Mechanics' hand tools. Serial No. 417,638; June 20. Class 23.

Boott Mills, Lowell, Mass. Towels. Serial No. 412,850; June 20. Class 42.

Borden Company, The, New York, N. Y. Candies. Serial No. 417,867; June 20. Class 46.

Borden Company, The, New York, N. Y. Popcorn. Serial No. 418,236; June 20. Class 46.

Bowser, S. F., & Company, Incorporated, Fort Wayne, Ind. Dry cleaning machines. Serial No. 417,954; June 20. Class 24.

Brides House, Inc., New York, N. Y. Decorating and planning kits. Serial No. 413,510; June 20. Class 50.

Bro-Kade Wall Finish Co., Inc., Milwaukee, Wis. Painters' stencils. Serial No. 416,982; June 20. Class 23.

Brown Instrument Company, The, Philadelphia, Pa. Instruments for measuring radiant energy. Serial No. 414,724; June 20. Class 26.

California Cotton Mills Company, Oakland, Calif. Twines of all kinds in cotton, hemp, etc. Serial No. 417,743; June 20. Class 7.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Parasiticides. Serial No. 419,219; June 20. Class 6.

Candy House, The, Seattle, Wash. Candy bars. Serial No. 417,797; June 20. Class 46.

Chambon Corporation, Garfield, N. J. Web printing machines and accessories. Serial No. 418,629; June 20. Class 23.

Cherokee Hosiery Mills, Inc. (See Richmond Hosiery Mills.)

Chicago Ledger Publishing Company, Inc., The, Chicago, Ill. Newspaper. Serial No. 417,799; June 20. Class 38.

Christie, M. A. & T. S., Rochester, N. Y. Maltless concentrate for coin syrup and the beverage made from it. Serial No. 418,187; June 20. Class 45.

Chrono Park Meter, Inc., Seattle, Wash. Automatic coin-controlled, time registering parking meters. Serial No. 394,222; June 20. Class 26.

Ciro Pearls, Limited, London, England. Stones and imitations thereof. Serial No. 418,918; June 20. Class 28.

Clearview Equipment and Manufacturing Company, St. Louis, Mo. Setting compound. Serial No. 417,868; June 20. Class 12.

Cleveland Punch & Shear Works Co., The, Cleveland, Ohio. Punching, etc. machines, bending rolls, flanging clamps, etc. Serial No. 417,359; June 20. Class 23.

Cole of California, Los Angeles, Calif. Shoes. Serial No. 417,747; June 20. Class 39.

Comptoir des Textiles Artificiels Société Anonyme, Paris, France. Textile fabrics and piece goods, and table and bed linen. Serial No. 415,704; June 20. Class 42.

Coty, Inc., New York, N. Y. Face powder, toilet water, perfume, etc. Serial No. 412,085; June 20. Class 6.

Cow & Gate (Canada) Limited, Gananoque, Ontario, Canada. Product for bakery use. Serial No. 416,722; June 20. Class 46.

Creo-Dipt Co., Inc., North Tonawanda, N. Y. Stained wood shingles. Serial No. 416,786; June 20. Class 12.

Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Electric motors, ignition-batteries, accumulators, etc. Serial No. 403,647; June 20. Class 21.

Darby Coal Corporation, Verda and Le Junior, Ky. Coal. Serial No. 417,527; June 20. Class 1.

Dow Chemical Company, The, Midland, Mich. Dry cleaning solvents. Serial Nos. 411,826–7; June 20. Class 4.

Dunk Donut Co., The, Cleveland, Ohio. Crullers, doughnuts, and fried cakes. Serial No. 418,095; June 20. Class 46.

Dunwoodie, David, Dayton, Ohio. Smoking pipes. Serial No. 418,969; June 20. Class 8.

Durham Hosiery Mills, Durham, N. C. Hosiery. Serial No. 418,680; June 20. Class 39.

Durkee Famous Foods. (See Glidden Company, The.)

Economy Forms Corporation, Des Moines, Iowa. Metal form plates. Serial No. 417,003; June 20. Class 23.

Electric Controller & Mfg. Co., The, Cleveland, Ohio. Electric switches and contactors. Serial No. 417,446; June 20. Class 21.

Ellis, George D., & Sons, Incorporated, Philadelphia, Pa. Tin boxes. Serial No. 417,120; June 20. Class 2.

Enro Shirt Company, The, Louisville, Ky. Shirts and pajamas. Serial No. 418,706; June 20. Class 39.

Euclid Candy Co. of California, Inc., The, San Francisco, Calif. Candy bars. Serial No. 418,096; June 20. Class 46.

Faith Mills, Inc., Averill Park, N. Y. Cloth. Serial No. 416,845; June 20. Class 42.

Fisher Flouring Mills Company, West Waterway, Harbor Island, and Seattle, Wash. Wheat flour. Serial Nos. 418,517–20; June 20. Class 46.

Florida Fruit Canners, Inc., Frostproof, Fla. Canned fruits and juices. Serial No. 418,191; June 20. Class 46.

Franklin Simon & Co., Inc., New York, N. Y. Women's hosiery. Serial No. 418,002; June 20. Class 39.

Gafford Pharmacal Co., The, Cleveland, Ohio. Nasal respirators. Serial No. 419,061; June 20. Class 44.

Gaw-O'Hara Envelope Co., Chicago, Ill. Envelopes and writing paper. Serial No. 416,604; June 20. Class 37.

General Beverage Corp., Springfield, Mass. Orange beverages and syrups for the same. Serial No. 417,278; June 20. Class 45.

General Motors Corporation, Detroit, Mich. Condensers of refrigerating systems. Serial No. 401,021; June 20. Class 31.

General Scientific Corporation, Chicago, Ill. Assembled lenses and mountings therefor. Serial No. 417,455; June 20. Class 26.

Glidden Company, The, doing business as Durkee Famous Foods, Cleveland, Ohio. Vegetable shortening. Serial No. 418,634; June 20. Class 46.

Goldfarb & Bindler, Inc., New York, N. Y. Dresses and coats. Serial No. 418,636; June 20. Class 39.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires and inner tubes therefor. Serial No. 418,828; June 20. Class 35.

Grainger, W. B., Packing Company, Salinas, Calif. Fresh vegetables. Serial No. 418,406; June 20. Class 46.

Grey, Hugh, Hosiery Company, Concord, N. C. Hosiery. Serial No. 418,712; June 20. Class 39.

Guarantee Oil Company. (See Tuell, John H.)

Gutkowsky, Harold W., doing business as Star Garter Co., Chicago, Ill. Brassières, foundation garments, girdles, and garter belts. Serial No. 417,805; June 20. Class 39.

Hamburger, Murray, Inc., New York, N. Y. Dresses, blouses, gowns, etc. Serial No. 418,589; June 20. Class 39.

Hansen Glove Corporation, Milwaukee, Wis. Men's leather gloves. Serial No. 414,222; June 20. Class 39.

Harlan, Paul M., San Francisco, Calif. Column. Serial No. 418,439; June 20. Class 38.

Harzfeld's, Inc., Kansas City, Mo. Suits, coats, sweaters, etc. Serial No. 418,338; June 20. Class 39.

Hercules Powder Company, Wilmington, Del. Cleaning preparation. Serial No. 412,602; June 20. Class 4.

Hickman, Williams & Co., Cincinnati, Ohio. Coke. Serial No. 417,492; June 20. Class 1.

Hilger, Adam, Limited, London, England. X-ray apparatus for industrial purposes. Serial No. 416,767; June 20. Class 26.
Holland Food Corporation, New York, N. Y. Cheese. Serial No. 417,172; June 20. Class 46.
Homelike Canning & Packing Co., San Francisco, Calif. Canned fruits, vegetables, fish, etc. Serial No. 418,340; June 20. Class 46.
Honey Web Inc., New York, N. Y. Ribbon fly catcher. Serial No. 418,875; June 20. Class 50.
Hormel, Geo. A., Austin, Minn. Canned luncheon meat. Serial No. 416,188; June 20. Class 46.
Howe & French, Inc., Boston, Mass. Cementitious material. Serial No. 418,043; June 20. Class 12.
Hunt, C. Howard, Pen Co., Camden, N. J. Linoleum cutting tools. Serial No. 418,577; June 20. Class 23.
Hut Neckwear Co., Inc., New York, N. Y. Neckties and cravats. Serial No. 412,258; June 20. Class 39.
Hydraulic Mfg. Company, Troy, Ill. Hydraulic stokers. Serial No. 418,715; June 20. Class 34.
Hygrade Sylvania Corporation, Salem, Mass. Electric lamps. Serial No. 390,651; June 20. Class 21.
Hygrade Sylvania Corporation, Salem, Mass. Electric lamps, electric light translating devices. Serial No. 390,652; June 20. Class 21.
Imco Co., The. (See Kohn, Julius.)
Insulation Development Corporation, Monroe, Mich. Spring units for use in seat cushions. Serial No. 419,426; June 20. Class 32.
Jitterbug Co., The. (See Barlow, William V.)
K & K Product, Chicago, Ill. Holder or frame for lacework and the like. Serial No. 415,652; June 20. Class 40.
Kaylon, Inc., New York, N. Y. Pajamas. Serial No. 412,814; June 20. Class 39.
Kaylon, Inc., New York, N. Y. Pajamas. Serial No. 418,203; June 20. Class 39.
Keystone Mfg. Co., Boston, Mass. Photographic apparatus and supplies. Serial No. 418,839; June 20. Class 26.
Kimball, J. H., Inc., New York, N. Y. Handkerchiefs. Serial No. 405,395; June 20. Class 39.
Kleinert, I. B., Rubber Company, New York, N. Y. Bathing caps of rubber. Serial No. 405,510; June 20. Class 39.
Knapp, Raymond, Long Island City, N. Y. Cameras, camera accessories, tripods, etc. Serial No. 412,817; June 20. Class 26.
Kohn, Julius, doing business as The Imco Co., New York, N. Y. Cigarette and cigar lighters. Serial No. 418,008; June 20. Class 34.
Kolor-Thru Corporation, Philadelphia, Pa. Composition floor coverings. Serial No. 419,194; June 20. Class 20.
La Flex Products, Mishawaka, Ind. Sleeping pillows. Serial No. 418,928; June 20. Class 32.
Lansburgh & Bro., Washington, D. C. Boys' clothing. Serial No. 417,696; June 20. Class 39.
La Reine Sportswear, Inc., New York, N. Y. Dresses and skirts. Serial No. 417,677; June 20. Class 39.
Lever Brothers Company, Cambridge, Mass. Soap. Serial No. 418,485; June 20. Class 4.
Lima Cord Sole and Heel Company, The, Lima, Ohio. Soles and heels of rubber. Serial No. 418,446; June 20. Class 39.
Lish, Eugene, New York, N. Y. Hats, berets, and tam-o'-shanters. Serial No. 416,692; June 20. Class 39.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics. Serial No. 417,969; June 20. Class 42.
Lowenbaum, R., Manufacturing Co., St. Louis, Mo. Frocks and dresses. Serial No. 418,643; June 20. Class 39.
Lyndon Products Corporation, Norwalk, Conn. Perfume and deodorant dispensing diffusers and disseminators for attachment to lamps. Serial No. 417,881; June 20. Class 13.
Mack Manufacturing Corporation, Long Island City, N. Y. Internal combustion engines. Serial No. 417,582; June 20. Class 23.
Maine State Packing Company, Inc., Boothbay Harbor, Maine. Vacuum packed shoestring potatoes. Serial No. 417,809; June 20. Class 46.
Mandl, Alex J., Inc., Hagerstown, Md. Rye whiskey. Serial No. 418,930; June 20. Class 49.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Dresses, jackets, skirts, etc. Serial No. 417,381; June 20. Class 39.
Maysett Co., The. (See Weisler, Walter E.)
Min-Aqua Co., Inc., Caldwell Township, N. J. Maltless, noncereal beverages. Serial No. 418,050; June 20. Class 45.
Mint-O-Seals Co., The, San Francisco, Calif. Facsimile reproductions of historical coins and a combined history and album. Serial No. 415,907; June 20. Class 38.
Mitchell & Peirson Inc., Philadelphia, Pa. Leather. Serial No. 418,113; June 20. Class 1.
Monowatt Electric Corporation, Providence, R. I. Electrical connectors. Serial No. 417,846; June 20. Class 21.
Montgomery, Marjorie, Inc., Los Angeles, Calif. Dresses, brassières, and blouse and skirt combinations. Serial No. 413,794; June 20. Class 39.
Monticello Shirt Company. (See Terry, Trent B.)
National Candy Co., Inc., St. Louis, Mo. Candy confection. Serial No. 418,013; June 20. Class 46.
National Fabrics Corporation, New York, N. Y. Textile fabrics. Serial No. 418,162; June 20. Class 42.
National Lead Company, New York, N. Y. White lead and oxide of lead. Serial No. 418,735; June 20. Class 16.
National Marking Machine Company, The, Cincinnati, Ohio. Laundry marking machines. Serial No. 412,004; June 20. Class 24.
National Pattern Co., Inc., The, New York, N. Y. Garment patterns. Serial Nos. 417,770–1; June 20. Class 26.
National Shoe Stores, Inc., New York, N. Y. Hosiery. Serial No. 417,651; June 20. Class 39.
National Supply Company, The, Pittsburgh, Pa. Metal pipes and tubes. Serial No. 418,415; June 20. Class 13.
New Jaunty Sportswear, Inc., New York, N. Y. Cloth. Serial No. 407,155; June 20. Class 42.
Northmont Hosiery Corporation, Reading, Pa. Hosiery. Serial No. 418,788; June 20. Class 39.
Nyal Company, Detroit, Mich. Preparation used in the treatment of certain genito-urinary conditions. Serial No. 418,935; June 20. Class 6.
Nyal Company, Detroit, Mich. General tonic. Serial No. 418,936; June 20. Class 6.
Nyal Company, Detroit, Mich. Preparation used in the treatment of rheumatic fever. Serial No. 418,937; June 20. Class 6.
Nyal Company, Detroit, Mich. Lozenge for the throat. Serial No. 419,434; June 20. Class 6.
Nyal Company, Detroit, Mich. Tonic. Serial Nos. 419,435–6; June 20. Class 6.
Nyal Company, Detroit, Mich. Ear ache drops. Serial No. 419,437; June 20. Class 6.
Nyal Company, Detroit, Mich. Ephedrine nasal jelly. Serial No. 419,438; June 20. Class 6.
Nyal Company, Detroit, Mich. Preparation used in the treatment of dysentery and diarrhea. Serial No. 419,439; June 20. Class 6.
Old Town Ribbon & Carbon Co. Inc., New York, N. Y. Carbon paper, typewriter ribbons. Serial No. 418,494; June 20. Class 11.
Oliver Farm Equipment Company, Chicago, Ill. Plows, plowshares, and parts thereof. Serial No. 417,623; June 20. Class 23.
Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Plates, cups, saucers, etc. Serial No. 412,057; June 20. Class 30.
Palm Valley Canning Company. (See Tyrrell & Garth, Inc.)
Palm Works. (See Walters' "Palm" Toffee Limited.)
Pepperell Manufacturing Company, Boston, Mass. Blankets, blanket cloth, and piece goods. Serial No. 418,789; June 20. Class 42.
Pernod S. A. (Société Anonyme), Couvet, Switzerland. Cordials. Serial No. 419,345; June 20. Class 49.
Pernod S. A. (Société Anonyme), Couvet, Switzerland. Cordials. Serial No. 419,393; June 20. Class 49.
Poliwoda & Anasky, Calverton, Long Island, N. Y. Potatoes. Serial No. 415,795; June 20. Class 46.
Pope & Grey, Inc., New York, N. Y. Printing and lithographic inks and finely divided metals. Serial No. 418,210; June 20. Class 11.
Prime Needleart Co. (See Schwechter, Mandel.)
Princeton Worsted Mills, Inc., Trenton, N. J. Worsted and woolen piece goods. Serial No. 417,299; June 20. Class 42.
Puritan Piece Dye Works, Paterson, N. J. Piece goods. Serial No. 413,735; June 20. Class 42.
Raritan Corporation, The, Perth Amboy, N. J. Whiskey. Serial No. 419,394; June 20. Class 49.
Raybestos-Manhattan, Inc., Passaic, N. J. Clutch facings. Serial No. 419,124; June 20. Class 35.
Reflectors, Inc., Philadelphia, Pa. Lighting reflectors. Serial No. 417,851; June 20. Class 34.
Reed, Angie M., Miami, Fla. Hair tonic. Serial No. 405,566; June 20. Class 6.
Rex Products Corporation, New York, N. Y. Unfilled vanity cases and compacts. Serial No. 416,480; June 20. Class 2.
Richmond Hosiery Mills, assignor to Cherokee Hosiery Mills, Inc., Rossville, Ga. Hosiery. Serial No. 409,940; June 20. Class 39.
Riley Company, Inc., The, New York, N. Y. Textile piece goods. Serial No. 410,924; June 20. Class 42.
Roessner, William L., Chicago, Ill. Motion picture screens. Serial No. 418,692; June 20. Class 26.
Roofer Manufacturers Association, Cuthbert, Ga. Lumber. Serial No. 415,568; June 20. Class 12.
Salfair, Inc., New York, N. Y. Hats, berets, and tam-o'-shanters. Serial No. 416,520; June 20. Class 39.
Schering Corporation, Bloomfield, N. J. Hormone preparation. Serial No. 419,044; June 20. Class 6.
Schwechter, Mandel, doing business as Prime Needleart Co., Chicago, Ill. Sheets, pillow cases, doilies, etc. Serial No. 412,231; June 20. Class 42.
Sears, Roebuck and Co., Chicago, Ill. Mechanics' tools. Serial No. 389,266; June 20. Class 23.

Sensenbrenner, A., Sons, Los Angeles, Calif. Cigars. Serial No. 418,951; June 20. Class 17.
Sessions Company, Inc., Enterprise, Ala. Peanut butter. Serial No. 418,227; June 20. Class 46.
Sherwin-Williams Co., The, Cleveland, Ohio. Paints, paint enamels, lacquers, etc. Serial No. 418,452; June 20. Class 16.
Shoot-A-Lite Corporation, New York, N. Y. Lighters. Serial No. 418,314; June 20. Class 34.
Shulton, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial Nos. 418,380–92; June 20. Class 6.
Shulton, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 418,394; June 20. Class 6.
Shulton, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial Nos. 418,669–71; June 20. Class 6.
Shulton, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. Serial No. 418,862; June 20. Class 6.
Shulton, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. Serial No. 419,099; June 20. Class 6.
Star Garter Co. (See Gutkowsky, Harold W.)
Stearns, Frederick, & Company, Detroit, Mich. Preparation used in the treatment of certain genito-urinary conditions. Serial No. 419,199; June 20. Class 6.
Stover Manufacturing & Engine Co., Freeport, Ill. Windmills. Serial No. 418,655; June 20. Class 23.
Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. Serial No. 415,319; June 20. Class 37.
Superior Felt & Bedding Company, Chicago, Ill. Mattresses. Serial No. 418,901; June 20. Class 32.
Supreme Sanctorum Ancient Mystic Order of Samaritans, Inc., Niagara Falls, N. Y. Rituals, transfer certificates, withdrawal cards, etc. Serial No. 402,656; June 20. Class 37.
Surgical Supply Corporation, New York, N. Y. Forceps, scissors, retractors, etc. Serial No. 413,460; June 20. Class 44.
Swift and Company, Chicago, Ill. Poultry, sausage, beef, etc. Serial No. 418,454; June 20. Class 46.
Szarlip, Lucia M., Toledo, Ohio. Cementitious composition. Serial No. 418,794; June 20. Class 44.
Tappan Stove Company, The, Mansfield, Ohio. Attachable indicating charts for use with cooking apparatus. Serial No. 416,587; June 20. Class 34.
Terry, Trent B., doing business as Monticello Shirt Company, Charlottesville, Va. Underwear. Serial No. 418,498; June 20. Class 39.
Texas Star Flour Mills, Galveston, Tex. Wheat flour, all wheat flour, cake flour, etc. Serial No. 415,674; June 20. Class 46.
Tuell, John H., doing business as Guarantee Oil Company, Connersville, Ind. Gasoline, kerosene, and lubricating oils. Serial No. 414,672; June 20. Class 15.
Tuttman, Louis, & Son, New York, N. Y. Suits, dresses, coats, etc. Serial No. 418,499; June 20. Class 39.
Tyrrell & Garth, Inc., also doing business as The Palm Valley Canning Company, Houston, Tex. Canned fruits, vegetables, fruit juices, etc. Serial No. 418,375; June 20. Class 46.
Ullmann, Bernhard, Co. Inc., New York, N. Y. Bibs, baby sacques, baby slippers, and bathrobes. Serial No. 418,560; June 20. Class 39.
Underwood Elliott Fisher Company, New York, N. Y. Typewriter ribbon and carbon paper. Serial Nos. 417,936–7; June 20. Class 11.
Underwood Elliott Fisher Company, New York, N. Y. Typewriter ribbon and carbon paper. Serial No. 417,940; June 20. Class 11.
Union Fork & Hoe Company, The, Columbus, Ohio. Hand operated tools. Serial No. 418,755; June 20. Class 23.
Union Paper and Twine Company, The, Cleveland, Ohio. Toilet paper and sanitary paper towels. Serial No. 415,060; June 20. Class 37.
Union Paper and Twine Company, The, Cleveland, Ohio. Toilet paper. Serial No. 415,062; June 20. Class 37.
Union Sales Corporation, Columbus, Ind. Confectioners' corn syrup. Serial No. 416,751; June 20. Class 46.
Union Underwear Co., Frankfort, Ky. Shorts. Serial No. 418,077; June 20. Class 39.
U. S. Expansion Bolt Co., York, Pa. Hand saws. Serial Nos. 418,694–5; June 20. Class 23.
U. S. Expansion Bolt Co., York, Pa. Hand saws. Serial No. 418,697; June 20. Class 23.
United States News Publishing Corporation, Washington, D. C. Column for newspaper. Serial No. 416,881; June 20. Class 38.
Universal Dental Company, Philadelphia, Pa. Artificial teeth. Serial No. 419,093; June 20. Class 44.
Universal Match Corporation, St. Louis, Mo. Wrappers for cigarette packages. Serial No. 419,051; June 20. Class 37.
Utility Dress Co., New York, N. Y. Piece goods. Serial No. 417,855; June 20. Class 42.
Vari-Color Machine Co., St. Louis, Mo. Etched engraving plates. Serial No. 389,398; June 20. Class 50.
Vassar Company, Chicago, Ill. Swim suits, trunks, and hosiery. Serial No. 414,847; June 20. Class 39.
Wagner, Stephen M., Incorporated, St. Louis, Mo. Sights. Serial No. 416,817; June 20. Class 26.
Walters' "Palm" Toffee Limited, doing business as Palm Works, London, England. Toffee and sugar confectionery. Serial No. 416,977; June 20. Class 46.
Waples Platter Co., Fort Worth, Tex. Coffee. Serial Nos. 410,278–9; June 20. Class 46.
Watkins, J. R., Company, The, Winona, Minn. Baking powder, cocoa, chocolate, etc. Serial No. 406,611; June 20. Class 46.
Weisler, Walter E., doing business as The Maysett Co., Massillon, Ohio. Fried flour mixture. Serial No. 416,754; June 20. Class 46.
Weitz, S., & Company, Inc., Cleveland, Ohio. Top coats and overcoats. Serial No. 418,615; June 20. Class 39.
Western College Bookstore Association, Palo Alto, Calif. Loose leaf binders and fillers, notebooks, etc. Serial No. 412,400; June 20. Class 37.
Wiles-Chipman Lumber Co., St. Louis, Mo. Lumber. Serial No. 418,222; June 20. Class 12.
Wilson-Jones Company, Chicago, Ill. Loose leaf binders. Serial No. 419,133; June 20. Class 37.
Windsor Products Co. Inc., Bridgeton, N. J. Tomato catsup. Serial No. 418,223; June 20. Class 46.
X-Sol Incorporated, Trenton, N. J. Composition for use in the treatment of athlete's foot. Serial No. 418,800; June 20. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbe, Claude R., Rome, N. Y. Board marble games. 368,512; June 20; Serial No. 416,714; published Apr. 11, 1939. Class 22.
Abraham & Straus, Inc., Brooklyn, N. Y. Clothing. 368,435; June 20; Serial No. 414,179; published Apr. 11, 1939. Class 39.
Adam Hat Stores, Inc., New York, N. Y. Men's hats. 368,443; June 20; Serial No. 414,908; published Apr. 11, 1939. Class 39.
Aetna Products, New York, N. Y. Slips and panties. 368,530; June 20. Class 39.
Aircraft Screw Products Company, Inc., Brooklyn, N. Y. Bolts, studs, nuts, etc. 368,446; June 20; Serial No. 415,025; published Apr. 11, 1939. Class 13.
Amalgamated Leather Companies, Inc., Wilmington, Del. Leather. 368,472; June 20; Serial No. 415,690; published Apr. 11, 1939. Class 1.
American Record Corporation, New York, N. Y. Phonograph records and record blanks. 368,518; June 20. Class 36.
American Shoe Shank Company, Inc., Avon, Mass. Steel shoe shanks. 368,455; June 20; Serial No. 415,100; published Apr. 11, 1939. Class 13.
Appleton Electric Company, Chicago, Ill. Connectors for securing cables or conduits to outlet boxes or connection boxes. 368,447; June 20; Serial No. 415,028; published Apr. 11, 1939. Class 21.
Axton-Fisher Tobacco Company, The, Louisville, Ky. Cigarettes. 368,486; June 20; Serial No. 415,871; published Apr. 11, 1939. Class 17.
B. & T. Floor Company, The, Columbus, Ohio. Wall soap and tumbler holders, grab rails, etc. 368,415; June 20; Serial No. 408,413; published Apr. 11, 1939. Class 13.
Baker, William T., Inc., Jersey City, N. J., by change of name to Baker Paint & Varnish Co. Sash-putties. 124,660; renewed Mar. 11, 1939.
Barlow, William V., doing business as The Jitterbug Co., Jacksonville, Fla. Game apparatus. 368,503; June 20; Serial No. 416,243; published Apr. 11, 1939. Class 22.
Baush Machine Tool Company, Springfield, Mass. Machinery and tools and parts thereof. 125,960; renewed July 22, 1939.
Beam, James B., Distilling Co., Incorporated, Clermont, Ky., assignor to Colonial Warehouses, Inc., Minneapolis, Minn. Bourbon whiskey. 368,532; June 20. Class 49.
Bendiner & Schlesinger, Inc. (See Schlesinger, Maurice F., assignor.)
Berck, Herman L., Los Angeles, Calif. Dress shirts, undershirts, shorts, etc. 368,419; June 20; Serial No. 411,807; published Apr. 11, 1939. Class 39.
Berncur Laboratories. (See Berney, Bernard.)
Berney, Bernard, doing business as Berncur Laboratories, Jacksonville, Fla. Preparation for use in the treatment of burns and insect bites. 368,533; June 20. Class 6.
Bernstein Manufacturing Company, Philadelphia, to Komfo Products Corporation, Allentown, Pa., successor. Bedsteads, mattresses, and pillows. 126,991; renewed Oct. 21, 1939.

Beverly, Brenton F., New York, N. Y. Gloves. 368,458; June 20; Serial No. 415,243; published Apr. 11, 1939. Class 39.

Bibby, J., & Sons Limited, Liverpool, England. Vegetable fats. 368,417; June 20; Serial No. 410,633; published Apr. 11, 1939. Class 46.

Biltmore Hotel, The. (See Long, Baron.)

Bilt-Rite Foundation Co., New York, N. Y. Girdles and brassières. 368,439; June 20; Serial No. 414,682; published Apr. 11, 1939. Class 39.

Bolger, William B., Cleveland, Ohio. Question and answer game. 368,509; June 20; Serial No. 416,640; published Apr. 11, 1939. Class 22.

Brand and Puritz, Kansas City, Mo. Coats and suits. 368,542; June 20. Class 39.

Breneman, Chas. W., Co., The, Cincinnati, Ohio. Window shades. 368,529; June 20. Class 32.

Bristol Company, The, Waterbury, Conn. Valves. 368,408; June 20; Serial No. 400,153; published Jan. 25, 1938. Class 26.

Bruce, Robert, Knitwear Company, Philadelphia, Pa. Knitted wearing apparel. 368,540; June 20. Class 39.

Burnstine-Vincent, Inc., New York, N. Y. Game played with cards. 368,505; June 20; Serial No. 416,310; published Apr. 11, 1939. Class 22.

Buse, R. L., Company Incorporated, Cincinnati, Ohio. Whiskey, gin, rum, etc. 368,510; June 20; Serial No. 416,642; published Apr. 11, 1939. Class 49.

Carey Salt Co., The, Hutchinson, Kans. Salt. 368,467; June 20; Serial No. 415,497; published Apr. 11, 1939. Class 46.

Central Paper Company, Menasha, Wis. Gummed paper tape. 368,480; June 20; Serial No. 415,764; published Apr. 11, 1939. Class 37.

Chicago Mail Order Company, Chicago, Ill. Carpets and rugs. 368,504; June 20; Serial No. 416,247; published Apr. 11, 1939. Class 42.

Cities Service Oil Company, New York, N. Y. Fuel oils. 368,548; June 20. Class 15.

Cohoes Envelope Co., Inc., Cohoes, N. Y. Envelopes. 368,429; June 20; Serial No. 413,511; published Apr. 11, 1939. Class 37.

Coil Coal & Mining Company, Incorporated, Madisonville, Ky. Coal. 368,481; June 20; Serial No. 415,767; published Apr. 11, 1939. Class 1.

Colonial Warehouses, Inc. (See Beam, James B., Distilling Co., Incorporated, assignor.)

Color-Chords, New York, N. Y. Chart device for application to a piano keyboard. 368,522; June 20. Class 38.

Columbia Fastener Company, Chicago, Ill. Mucilage. 127,362; renewed Nov. 11, 1939.

Column, Lally, Co., Cambridge, Mass., and Brooklyn, N. Y. Building columns of steel or iron filled with concrete or other plastic material. 368,535; June 20. Class 12.

Congoleum-Nairn Inc., Kearny, N. J. Linoleum. 368,487; June 20; Serial No. 415,876; published Apr. 11, 1939. Class 20.

Congoleum-Nairn Inc., Kearny, N. J. Linoleum, linoleum tile, and cork carpet. 368,488; June 20; Serial No. 415,878; published Apr. 11, 1939. Class 20.

Continental Scale Works, Chicago, Ill., assignor, by mesne assignments, to Continental Scale Corporation, Dover, Del. Weighing-scales. 127,014; renewed Oct. 21, 1939.

Coralite Dental Products Company, Chicago, Ill. Dental cellulose material. 368,416; June 20; Serial No. 410,455; published Apr. 11, 1939. Class 44.

Crown Drug Company, Kansas City, Mo. Golf balls. 368,515; June 20; Serial No. 416,794; published Apr. 11, 1939. Class 22.

Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Electric motors, ignition-batteries, accumulators, etc. 368,407; June 20; Serial No. 399,601; published Jan. 24, 1939. Class 21.

Day, Evangeline, New York, N. Y. Teacups and bowls. 368,466; June 20; Serial No. 415,447; published Apr. 11, 1939. Class 30.

Deknatel, J. A., & Son, Queens Village, Long Island, N. Y. Needles with multiple sutures, surgical needles, and sutures for surgical use. 368,506; June 20; Serial No. 416,548; published Apr. 11, 1939. Class 44.

Den Kongelige Porcelainsfabrik, to Den Kongelige Porcelainsfabrik, A.-S., Copenhagen, Denmark. Porcelain ware. 125,799; renewed June 17, 1939.

Dickerson, Walker T., Company, The, Columbus, Ohio. Shoes. 368,524; June 20. Class 39.

Doehler Die-Casting Company, Brooklyn, to Doehler Die Casting Company, New York, N. Y. Brass castings. 127,023; renewed Oct. 21, 1939.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Window-shade fabrics. 368,501; June 20; Serial No. 416,227; published Apr. 11, 1939. Class 42.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Toilet articles. 368,502; June 20; Serial No. 416,234; published Apr. 11, 1939. Class 44.

Eagle Pencil Company, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencils, penholders, rubber erasers, fountain-pens. 126,269; renewed Aug. 19, 1939.

Eagle Straw Corporation, New York, N. Y. Drinking straws. 368,405; June 20; Serial No. 392,263; published July 6, 1937. Class 50.

Ehlers, Albert, Inc., Brooklyn, N. Y. Tea. 368,489; June 20; Serial No. 415,879; published Apr. 11, 1939. Class 46.

Ehlers, Albert, Inc., Brooklyn, N. Y. Tea. 368,490; June 20; Serial No. 415,882; published Apr. 11, 1939. Class 46.

Elder Manufacturing Company, St. Louis, Mo. Clothing. 127,382; renewed Nov. 11, 1939.

Electrofile, Inc., Troy, N. Y. Machines for selecting cards from a file, cards and trays. 368,413; June 20; Serial No. 408,188; published Apr. 11, 1939. Class 23.

Everitt Hat Company, Milwaukee, Wis. Women's, misses', and girls' hats. 368,420; June 20; Serial No. 412,222; published Apr. 11, 1939. Class 39.

Ferer, Aaron, & Sons, St. Louis, Mo., and Omaha, Nebr., assignor to Aaron Ferer & Sons, Inc., St. Louis, Mo. Oil and grease wiping and cleaning cloths. 127,392; renewed Nov. 11, 1939.

Ferguson Marketing Service, Inc., Baltimore, Md. Fresh citrus fruits and vegetables. 368,434; June 20; Serial No. 414,144; published Apr. 11, 1939. Class 46.

Fox River Paper Corporation, Appleton, Wis. Papers. 368,484; June 20; Serial No. 415,841; published Apr. 11, 1939. Class 37.

Frozen Novelties, Inc., Long Island City, N. Y. Frozen confections. 368,410; June 20; Serial No. 402,595; published Apr. 11, 1939. Class 46.

Funk, Joe & Ted, New York, N. Y. Coats and suits. 368,543; June 20. Class 39.

Garfinkel & Ritter, New York, N. Y. Chemises, panties, night-gowns, etc. 368,460–1; June 20; Serial Nos. 415,335–6; published Apr. 11, 1939. Class 39.

Geist, Irving, New York, N. Y. Blouses, waists, skirts, etc. 368,544; June 20. Class 39.

General Tire & Rubber Company, The, Akron, Ohio. Storage batteries. 368,470; June 20; Serial No. 415,644; published Apr. 11, 1939. Class 21.

Gibbs & Company, Chicago, Ill. Permanent waving pads. 368,430; June 20; Serial No. 413,630; published Apr. 11, 1939. Class 44.

Giessing Milling Company, Farmington, Mo. Biscuit flour and gravy flour. 368,433; June 20; Serial No. 413,988; published Apr. 11, 1939. Class 46.

Gillette Safety Razor Company, Boston, Mass. Safety razor blades. 368,448–50; June 20; Serial Nos. 415,037–9; published Apr. 11, 1939. Class 23.

Gimbel Brothers, Inc., New York, N. Y. Shirts, underwear, hosiery, etc. 368,554; June 20. Class 39.

Glass & Company, Dress Corp., New York, N. Y. Dresses, coats, suits, etc. 368,538; June 20. Class 39.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Belts, belting, and hose. 368,498; June 20; Serial No. 416,140; published Apr. 11, 1939. Class 35.

Grandpa Brands Company, Cincinnati, Ohio. Maltless beverages and for concentrates thereof. 368,508; June 20; Serial No. 416,630; published Apr. 11, 1939. Class 45.

Green Table Pad Corp., New York, N. Y. Venetian blinds and table pads. 368,507; June 20; Serial No. 416,606; published Apr. 11, 1939. Class 32.

Hamersley Manufacturing Company, The, Garfield, N. J. Wrapping paper for foods. 368,474; June 20; Serial No. 415,715; published Apr. 11, 1939. Class 37.

Handy Beer and Wine Company, Boston, Mass. Cream ale. 368,453; June 20; Serial No. 415,081; published Apr. 11, 1939. Class 48.

Hayward, C. B. & Co., Inc., New York, N. Y., assignor to Riverside & Dan River Cotton Mills, Inc., Danville, Va. Cotton piece goods. 125,441; renewed May 20, 1939.

Hayward, C. B., & Co., Inc., New York, N. Y., assignor to Riverside & Dan River Cotton Mills, Inc., Danville, Va. Cotton piece goods. 125,443; renewed May 20, 1939.

Hein-Werner Motor Parts Corporation, Waukesha, Wis. Hydraulic jacks. 368,531; June 20. Class 23.

Helburn, Willard, Inc., Salem, Mass. Leather. 368,476–9; June 20; Serial Nos. 415,752–5; published Apr. 11, 1939. Class 1.

Heller Brothers Company, Newark, N. J. Files. 368,475; June 20; Serial No. 415,716; published Apr. 11, 1939. Class 23.

Hercules Powder Company, Wilmington, Del. Blasting caps. 368,425; June 20; Serial No. 412,603; published Apr. 11, 1939. Class 9.

Herring, C. M., Inc., Lynchburg, Va. Shoes. 368,525; June 20. Class 39.

Hewitt Rubber Corporation, Buffalo, N. Y. Hose. 368,482; June 20; Serial No. 415,777; published Apr. 11, 1939. Class 35.

Hite, Howard J., doing business as Hite Photo Service, Detroit, Mich. Photographic prints. 368,547; June 20. Class 38.

Hotstream Heater Company, The. (See Mendelson, Louis R., assignor.)

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Cameras. 368,473; June 20; Serial No. 415,708; published Apr. 11, 1939. Class 26.

Isaacs, Harry, Inc., New York, N. Y. Men's neckties and mufflers. 368,440; June 20; Serial No. 414,696; published Apr. 11, 1939. Class 39.

James Distillery, The, Inc., Baltimore, Md. Whiskey. 368,499; June 20; Serial No. 416,147; published Apr. 11, 1939. Class 49.

Jitterbug Co., The. (See Barlow, William V.)

Jones, Chester A., Ottumwa, Iowa. Punch boards. 368,436; June 20; Serial No. 414,226; published Apr. 11, 1939. Class 22.

Jordan Mills, Inc., Columbus, Ga. Yarn. 368,463; June 20; Serial No. 415,399; published Mar. 28, 1939. Class 43.

Kem Card Sales Corporation, New York, N. Y. Playing cards. 368,519; June 20. Class 22.

Komfo Products Corporation. (See Bernstein Manufacturing Company.)

Kress, S. H., and Company, New York, N. Y. Shaving cream. 368,411; June 20; Serial No. 405,651; published Apr. 11, 1939. Class 4.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Toilet creams. 368,423; June 20; Serial No. 412,413; published Apr. 4, 1939. Class 6.

Li-on Bedding Company, Milwaukee, Wis. Mattresses. 368,403; June 20; Serial No. 389,076; published Apr. 11, 1939. Class 32.

Loma Linda Food Company, Loma Linda, Calif. Table beverage made from soy beans, figs, and grains. 368,528; June 20. Class 46.

London House, Ltd., New York, N. Y. Pipes. 368,549; June 20. Class 8.

Long, Baron, doing business as The Biltmore Hotel, Los Angeles, Calif. Beer. 368,468; June 20; Serial No. 415,554; published Apr. 11, 1939. Class 48.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Ice cream cones. 368,494; June 20; Serial No. 415,991; published Apr. 11, 1939. Class 46.

Lowe, Donald, & Co. Inc., New York, N. Y. Woolen fabrics. 368,459; June 20; Serial No. 415,296; published Apr. 11, 1939. Class 42.

Lucey, John E., Shoe Co., Middleboro, Mass. Men's shoes. 368,438; June 20; Serial No. 414,357; published Apr. 11, 1939. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Tooth brushes. 368,483; June 20; Serial No. 415,784; published Apr. 11, 1939. Class 29.

Marlin Firearms Company, The, New Haven, Conn. Safety razor blades. 368,550; June 20. Class 23.

McCurrach Organization Incorporated, New York, N. Y. Men's neckties and mufflers. 368,445; June 20; Serial No. 414,959; published Apr. 11, 1939. Class 39.

Mead Cycle Company, Chicago, Ill. Bicycles. 127,289–90; renewed Nov. 4, 1939.

Mendelson, Louis R., assignor to The Hotstream Heater Company, Cleveland, Ohio. Gas, gasolene, and vapor water-heaters and draft-hoods therefor. 127,445; renewed Nov. 11, 1939.

Metalectric Corporation, Waterloo, Iowa. Game. 368,513; June 20; Serial No. 416,769; published Apr. 11, 1939. Class 22.

Michaels, Ralph, Chicago, Ill. Shuttlecocks. 368,500; June 20; Serial No. 416,153; published Apr. 11, 1939. Class 22.

Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 368,464; June 20; Serial No. 415,407; published Apr. 11, 1939. Class 39.

Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 368,465; June 20; Serial No. 415,409; published Apr. 11, 1939. Class 39.

Minardo Bros. Fruit Co., Inc., La Fayette, Ind. Kentucky straight Bourbon whiskey. 368,495; June 20; Serial No. 415,993; published Apr. 11, 1939. Class 49.

Mitchell & Peirson, Incorporated, Philadelphia, Pa. Glazed kid. 368,441; June 20; Serial No. 414,705; published Apr. 11, 1939. Class 1.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 127,653; renewed Nov. 18, 1939.

National Cash Register Company, The, Dayton, Ohio. Paper and stationery. 368,485; June 20; Serial No. 415,853; published Apr. 11, 1939. Class 37.

National Musical String Co., New Brunswick, N. J. Strings for banjos, violins, etc. 368,551; June 20. Class 36.

National Stuffed Animals Co. Inc., New York, N. Y. Toy stuffed animals. 368,469; June 20; Serial No. 415,557; published Apr. 11, 1939. Class 22.

North, Earle M., doing business as North Distributing Company, Houston, Tex. Cleaning compound. 368,451; June 20; Serial No. 415,054; published Apr. 11, 1939. Class 4.

Nurnberg Thermometer Co., Inc., New York, N. Y. Thermometers and hydrometers. 368,424; June 20; Serial No. 412,576; published Apr. 11, 1939. Class 26.

Nu-Way Shoe Co., Inc., New York, N. Y. Shoes. 368,521; June 20. Class 39.

Oster, John, Manufacturing Company, Racine, Wis. Clippers, clipper blades, and shavers. 368,541; June 20. Class 23.

Oswego Shade Cloth Company, Oswego, N. Y. Shadecloth. 125,833; renewed June 17, 1939.

Parke, Davis & Company, Detroit, Mich. Soothing lotion for chapped hands, etc. 368,552; June 20. Class 6.

Parks-Cramer Company, Fitchburg, Mass. Self-cleaning atomizing nozzles. 368,406; June 20; Serial No. 399,200; published Apr. 11, 1939. Class 13.

Penick & Ford, Ltd. Incorporated, New York, N. Y. Syrup. 368,442; June 20; Serial No. 414,889; published Apr. 11, 1939. Class 46.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Pillows. 368,514; June 20; Serial No. 416,773; published Apr. 11, 1939. Class 32.

Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 368,471; June 20; Serial No. 415,663; published Apr. 11, 1939. Class 46.

Pond Pharmacal Company, Inc. (See Skintex Co., assignor.)

Queen Ant Control, Inc., Columbus, Ohio. Insecticides. 368,523; June 20. Class 6.

Red Arrow Laboratories. (See Southwestern Drug Corporation.)

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Piece goods. 368,496; June 20; Serial No. 416,112; published Apr. 11, 1939. Class 42.

Riverside & Dan River Cotton Mills, Inc. (See Hayward, C. B., & Co., Inc., assignor.)

Rochester Button Company, Rochester, N. Y. Buttons. 368,462; June 20; Serial No. 415,352; published Apr. 11, 1939. Class 40.

Rotary Lift Company, Memphis, Tenn. Elevators. 368,428; June 20; Serial No. 413,382; published Jan. 24, 1939. Class 23.

Roth, Chester H., & Co., New York, N. Y. Hosiery. 368,456; June 20; Serial No. 415,228; published Apr. 11, 1939. Class 39.

Rowland Accouterments, Inc., Wilmington, Del. Woven or braided fabrics of gold, silver, or their alloys. 368,431; June 20; Serial No. 413,684; published Apr. 11, 1939. Class 40.

Rueping, Fred, Leather Co., Fond du Lac, Wis. Leather. 368,491; June 20; Serial No. 415,913; published Apr. 11, 1939. Class 1.

Russelet Novelty Co., New York, N. Y. Combination horn and balloon. 368,511; June 20; Serial No. 416,657; published Apr. 11, 1939. Class 22.

Schenley Distillers Corporation, New York, N. Y. Whiskey, gin, rum, etc. 368,452; June 20; Serial No. 415,057; published Apr. 11, 1939. Class 49.

Schlesinger, Maurice F., assignor to Bendiner & Schlesinger, Inc., New York, N. Y. Medical jelly for the nose. 126,076; renewed July 22, 1939.

Schmeiser, T. G., Co., Fresno, Calif. Traction lug units for rubber tired tractor wheels. 368,432; June 20; Serial No. 413,740; published Apr. 11, 1939. Class 23.

Schmidt, C., & Sons, Inc., Philadelphia, Pa. Malt beverages. 368,437; June 20; Serial No. 414,240; published Apr. 11, 1939. Class 48.

Scully, Cornelius A., Leominster, Mass. Liquid polish. 125,916; renewed July 8, 1939.

Sealco By-Products Company, Inc., Bluefield, W. Va. Pigment, paint and paint thinner. 368,444; June 20; Serial No. 414,924; published Apr. 11, 1939. Class 16.

Sears, Roebuck and Co., Chicago, Ill. Enamel ware. 368,516; June 20.

Sears, Roebuck and Co., Chicago, Ill. Mops, mopsticks, brooms, etc. 368,517; June 20. Class 29.

Shulton, Inc., New York, N. Y. Combination set consisting of a mug and soap. 368,426; June 20; Serial No. 412,675; published Apr. 11, 1939. Class 50.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Silk piece goods. 368,497; June 20; Serial No. 416,117; published Apr. 11, 1939. Class 42.

Skintex Co., New York and Forest Hills, assignor to Pond Pharmacal Company, Inc., New York, N. Y. Face-cream. 126,084; renewed July 22, 1939.

Società Italiana Pirelli, Milan, Italy. Atomisers, bidet cushions, nursing nipples for cattle, etc. 368,421; June 20; Serial No. 412,310; published Apr. 11, 1939. Class 44.

Società Italiana Pirelli, Milan, Italy. Tennis balls, toy balls, toy balloons. 368,422; June 20; Serial No. 412,311; published Apr. 11, 1939. Class 22.

Societe Alsacienne de Constructions Mecaniques, Mulhouse and Clichy, France. Sheathed electrical conductors and supplies and fittings for the same. 368,414; June 20; Serial No. 408,257; published Apr. 11, 1939. Class 21.

Southland Wine Corporation, Richmond, Va. Wines. 368,418; June 20; Serial No. 410,669; published Apr. 11, 1939. Class 47.

Southwestern Drug Corporation, doing business as Red Arrow Laboratories, Waco, Tex. Shaving cream. 368,492; June 20; Serial No. 415,963; published Apr. 11, 1939. Class 4.

Stanley Home Products, Inc., Westfield, Mass. Insecticides, moth repellent, and deodorizing preparations. 368,539; June 20. Class 6.

Sterling Products Company, Easton, Pa. Metal closures for tanks, drums, etc. 368,427; June 20; Serial No. 413,085; published Apr. 11, 1939. Class 50.

Stone-Mix Concrete Corp., Buffalo, N. Y. Concrete in wetted condition. 368,537; June 20. Class 12.

Storz Brewing Company, Omaha, Nebr. Beer. 368,457; June 20; Serial No. 415,234; published Apr. 11, 1939. Class 48.

Superior Fastener Corporation, Chicago, Ill. Metal and wood holding cleats. 368,412; June 20; Serial No. 405,785; published Apr. 11, 1939. Class 13.

Supplee-Biddle Hardware Co., Philadelphia, Pa. Mechanics' tools. 368,534; June 20. Class 23.

Sutton Shirt Corp., New York, N. Y. Shirts. 368,536; June 20. Class 39.

Tayton Company, Kansas City, Mo. Astringent, brilliantine, creams, etc. 368,553; June 20. Class 6.
Taylor, K., Distilling Co., Inc., The, Frankfort, Ky. Whiskey. 368,401–2; June 20; Serial Nos. 416,933–4; published Apr. 11, 1939. Class 49.
Terry, Sam, doing business as Valley of the Moon Fruit Juice Co., Oakland, Calif. Natural fruit juice base for beverages. 368,409; June 20; Serial No. 402,451; published Apr. 11, 1939. Class 45.
Texas Citrus Fruit Growers Exchange, Mission, Tex. Fresh citrus fruit. 368,493; June 20; Serial No. 415,969; published Apr. 11, 1939. Class 46.
Triumph Hosiery Mills, Inc., New York, N. Y. Hosiery. 368,545; June 20. Class 39.
Valley of the Moon Fruit Juice Co. (See Terry, Sam.)
Van Allen, John D., & Son, Inc., Clinton, Iowa. Creams, lotions, tonic, etc. 368,526; June 20. Class 6.
Warren, S. D., Company, Boston, Mass. Book paper. 368,527; June 20. Class 37.
Warshauer & Franck, Inc., Boston, Mass. Ladies' dresses. 368,546; June 20. Class 39.
Webster Electric Company, Racine, Wis. Electric sound reproduction equipment. 368,454; June 20; Serial No. 415,093; published Apr. 11, 1939. Class 36.
West Ontario Citrus Association, Ontario, Calif. Fresh citrus fruit. 368,404; June 20; Serial No. 398,949; published Nov. 29, 1938. Class 46.
Williams, Arthur A., Holliston, Mass. Boots and shoes. 127,301; renewed Nov. 4, 1939.
Winkler, Kaspar, & Co., Altstetten, near Zurich, Switzerland. Paints, varnishes, and inorganic and organic compounds or solutions of salts for use of paints, etc. 368,520; June 20. Class 16.
Worthington Ball Company, The, Elyria, Ohio. Golfballs. 127,168; renewed Oct. 21, 1939.

LIST OF REGISTRANTS OF LABELS

Borman Pneumatic Heel Company, Chicago, Ill. Walk Miles with Smiles. For Rubber Heels. 53,154; June 20.
Daggett Chocolate Company, doing business as F. H. Roberts Company, Cambridge, Mass. Fruits, Nuts & Special Pieces. For Chocolates. 53,155; June 20.
Drake, M. S., Alvin, Tex. Gulf Wave. For Preserved Figs. 53,156; June 20.
Fort Howard Paper Company, Green Bay, Wis. Fluff Crepe. For Toilet Paper. 53,157; June 20.
Hansen's, Chr., Lab., Inc., Little Falls, N. Y. "Junket" Freezing Mix. For a Freezing Mix for Making Ice Cream. 53,158; June 20.
Hoyler Baking Company, Escanaba, Mich. Home Twist Bread. For Bread. 53,159; June 20.
Hunter Baltimore Rye Distillery, Inc., Baltimore, Md. Newport Distilled Dry Gin. For Distilled Dry Gin. 53,160; June 20.
Kinney, B. R., and Son, Inc., Binghamton, N. Y. Kinney's Tub 'O' Butter. For Butter. 53,161–2; June 20.
Lea's Tonic Company. (See Vasco Products, Inc.)
McKesson & Robbins, Incorporated, Debtor, Estate of. (See Wardell, William J.)
Ohio Textile Products Company, The, Mansfield, Ohio. The Correct Belt Display. For Sport Belts. 53,163; June 20.
Roberts, F. H., Company. (See Daggett Chocolate Company.)
Schlitz, Jos., Brewing Company, Milwaukee, Wis. Milwaukee Club. For Beer. 53,164; June 20.
U. S. Vitamin Corporation, Dover, Del. Vi-Litron. For Capsules containing Liver Concentrate and Iron with Biologically Standardized Vitamins B_1, B_2 (G) and C. 53,165; June 20.
Vasco Products, Inc., doing business as Lea's Tonic Company, Brentwood, Md. Lea's Hair Preparation. For a Preparation for Restoring Color to Gray Hair. 53,166–7; June 20.
Wander Company, The, Chicago, Ill. Chocolate Flavored Ovaltine. For a Food Beverage. 53,168; June 20.
Wardell, William J., Trustee of the Estate of McKesson & Robbins, Incorporated, Debtor, New York, N. Y. Fawndale Maryland Straight Rye Whiskey. For Straight Rye Whiskey. 53,169; June 20.

LIST OF REGISTRANTS OF PRINTS

Bender, Edward A., Bakersfield, Calif. Movrak. For a Portable Casing or Oil Tool Rack. 17,456; June 20.
Du Pont, E. I., de Nemours & Company, Incorporated, Wilmington, Del. New du Pont Paint Keeps White Houses Whiter. For Paints and Varnishes. 17,457; June 20.
Garden City Envelope Company, Chicago, Ill. "Stitch-In" Envelopes. For The Popular Mechanics Magazine. 17,458; June 20.
Greiner, Otto R., Co., Newark, N. J. A Combined Liquid Air or CO_2 Air Chamber and Trap. For a Combined Liquid Air or CO_2 Air Chamber and Trap. 17,459; June 20.
Tasty Baking Company, Philadelphia, Pa. Tastykake. For Cake. 17,460; June 20.
Transparent Package Company, Chicago, Ill. How about a Nice Steak for Dinner Today. For Steaks. 17,461; June 20.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Coil Coal & Mining Company. 368,481; June 20; Serial No. 415,767; published Apr. 11, 1939.
Kid, Glazed. Mitchell & Peirson Incorporated. 368,441; June 20; Serial No. 414,705; published Apr. 11, 1939.
Leather. Amalgamated Leather Companies. 368,472; June 20; Serial No. 415,690; published Apr. 11, 1939.
Leather. Willard Holburn, Inc. 368,476–9; June 20; Serial Nos. 415,752–5; published Apr. 11, 1939.
Leather. Fred Rueping Leather Co. 368,491; June 20; Serial No. 415,913; published Apr. 11, 1939.

CLASS 4

Cleaning compound. E. M. North. 368,451; June 20; Serial No. 415,054; published Apr. 11, 1939.
Shaving cream. S. H. Kress and Company. 368,411; June 20; Serial No. 405,651; published Apr. 11, 1939.
Shaving cream. Southwestern Drug Corporation. 368,492; June 20; Serial No. 415,963; published Apr. 11, 1939.

CLASS 5

Mucilage. Columbia Fastener Company. 127,362; renewed Nov. 11, 1939.

CLASS 6

Astringent, brilliantine, creams, etc. Tayton Company. 368,553; June 20.
Cream, Skin. Skintex Co. 126,084; renewed July 22, 1939.
Creams, lotions, tonic, etc. John D. Van Allen & Son, Inc. 368,526; June 20.
Creams, Toilet. Lanman & Kemp-Barclay & Co. Incorporated. 368,423; June 20; Serial No. 412,413; published Apr. 4, 1939.
Insecticides. Queen Ant Control, Inc. 368,523; June 20.
Insecticides, moth repellent, and deodorizing preparations. Stanley Home Products, Inc. 368,539; June 20.
Lotion for chapped hands, etc., Soothing. Parke, Davis & Company. 368,552; June 20.
Medical jelly for the nose. M. F. Schlesinger. 126,076; renewed July 22, 1939.
Preparation for use in the treatment of burns and insect bites. B. Berney. 368,533; June 20.

CLASS 8

Pipes. London House, Ltd. 368,549; June 20.

CLASS 9

Blasting caps. Hercules Powder Company. 368,425; June 20; Serial No. 412,603; published Apr. 11, 1939.

CLASS 12

Building columns of steel or iron filled with concrete or other plastic material. Lally Column Co. 368,535; June 20.
Concrete in wetted condition. Stone-Mix Concrete Corp. 368,537; June 20.

CLASS 13

Bolts, studs, nuts, etc. Aircraft Screw Products Company. 368,446; June 20; Serial No. 415,025; published Apr. 11, 1939.
Cleats, Metal and wood holding. Superior Fastener Corporation. 368,412; June 20; Serial No. 405,785; published Apr. 11, 1939.

Enamel ware. Sears, Roebuck and Co. 368,516; June 20.
Holders, and grab rails, etc., Wall soap and tumbler. B. & T. Floor Company. 368,415; June 20; Serial No. 408,413; published Apr. 11, 1939.
Nozzles, Self-cleaning atomizing. Parks-Cramer Company. 368,406; June 20; Serial No. 399,200; published Apr. 11, 1939.
Shoe shanks, Steel. American Shoe Shank Company. 368,455; June 20; Serial No. 415,100; published Apr. 11, 1939.

CLASS 14

Castings, Brass. Doehler Die-Casting Company. 127,023; renewed Oct. 21, 1939.

CLASS 15

Oils, Fuel. Cities Service Oil Company. 368,548; June 20.

CLASS 16

Paints, varnishes and inorganic and organic compounds or solutions for use as paints, etc. Kaspar Winkler & Co. 368,520; June 20.
Pigment paint and paint thinner. Sealco By-Products Company. 368,444; June 20; Serial No. 414,924; published Apr. 11, 1939.
Polish, Liquid. C. A. Scully. 125,916; renewed July 8, 1939.
Sash-putties. William T. Baker Inc. 124,660; renewed Mar. 11, 1939.

CLASS 17

Cigarettes. Axton-Fisher Tobacco Company. 368,486; June 20; Serial No. 415,871; published Apr. 11, 1939.

CLASS 19

Bicycles. Mead Cycle Company. 127,289–90; renewed Nov. 4, 1939.

CLASS 20

Linoleum. Congoleum-Nairn Inc. 368,487; June 20; Serial No. 415,876; published Apr. 11, 1939.
Linoleum, linoleum tile, and cork carpet Congoleum-Nairn Inc. 368,488; June 20; Serial No. 415,878; published Apr. 11, 1939.

CLASS 21

Batteries, Storage. General Tire & Rubber Company. 368,470; June 20; Serial No. 415,644; published Apr. 11, 1939.
Conductors and supplies and fittings for the same, Sheathed electrical. Societe Alsacienne de Constructions Mecaniques. 368,414; June 20; Serial No. 408,257; published Apr. 11, 1939.
Connectors for securing cables or conduits to outlet boxes or connection boxes. Appleton Electric Company. 368,447; June 20; Serial No. 415,028; published Apr. 11, 1939.
Motors, Ignition batteries, accumulators, etc., Electric. Daimler-Benz Aktiengesellschaft. 368,407; June 20; Serial No. 399,601; published Jan. 24, 1939.

CLASS 22

Cards, Playing. Kem Card Sales Corporation. 368,519; June 20.
Game. Metalectric Corporation. 368,513; June 20; Serial No. 416,769; published Apr. 11, 1939.
Game apparatus. W. V. Barlow. 368,503; June 20; Serial No. 416,243; published Apr. 11, 1939.
Game played with cards. Burnstine-Vincent, Inc. 368,505; June 20; Serial No. 416,310; published Apr. 11, 1939.
Game, Question and answer. W. B. Bolger. 368,509; June 20; Serial No. 416,640; published Apr. 11, 1939.
Games, Board marble. C. R. Abbe. 368,512; June 20; Serial No. 416,714; published Apr. 11, 1939.
Golf balls. Crown Drug Company. 368,515; June 20; Serial No. 416,794; published Apr. 11, 1939.
Golf-balls. Worthington Ball Company. 127,168; renewed Oct. 21, 1939.
Horn and balloon, Combination. Russelet Novelty Co. 368,511; June 20; Serial No. 416,657; published Apr. 11, 1939.
Punch boards. C. A. Jones. 368,436; June 20; Serial No. 414,226; published Apr. 11, 1939.
Shuttlecocks. R. Michaels. 368,500; June 20; Serial No. 416,153; published Apr. 11, 1939.
Tennis balls, toy balls, toy balloons. Societa Italiana Pirelli. 368,422; June 20; Serial No. 412,311; published Apr. 11, 1939.
Toy stuffed animals. National Stuffed Animals Co. Inc. 368,469; June 20; Serial No. 415,557; published Apr. 11, 1939.

CLASS 23

Clippers, clipper blades, and electric shavers. John Oster Manufacturing Company. 368,541; June 20.
Elevators. Rotary Lift Company. 368,428; June 20; Serial No. 413,382; published Jan. 24, 1938.
Files. Heller Brothers Company. 368,475; June 20; Serial No. 415,716; published Apr. 11, 1939.
Jacks, Hydraulic. Hein-Werner Motor Parts Corporation. 368,531; June 20.
Lug units for rubber tired tractor wheels, Traction. T. G. Schmeiser Co. 368,432; June 20; Serial No. 413,740; published Apr. 11, 1939.
Machinery and tools and parts thereof. Baush Machine Tool Company. 125,960; renewed July 22, 1939.
Machines for selecting cards from a file. Electrofile, Inc. 368,413; June 20; Serial No. 408,188; published Apr. 11, 1939.
Razor blades, Safety. Gillette Safety Razor Company. 368,448-50; June 20; Serial Nos. 415,037–9; published Apr. 11, 1939.
Razor blades, Safety. Marlin Firearms Company. 368,550; June 20.
Tools, Mechanics'. Supplee-Biddle Hardware Co. 368,534; June 20.

CLASS 26

Cameras. I. G. Farbenindustrie Aktiengesellschaft. 368,473; June 20; Serial No. 415,708; published Apr. 11, 1939.
Scales, Weighing. Continental Scale Works. 127,014; renewed Oct. 21, 1939.
Thermometers and hydrometers. Nurnberg Thermometer Co. 368,424; June 20; Serial No. 412,576; published Apr. 11, 1939.
Valves. Bristol Company. 368,408; June 20; Serial No. 400,153; published Jan. 25, 1938.

CLASS 29

Cloths, Oil and grease wiping and cleaning. Aaron Ferer & Sons. 127,392; renewed Nov. 11, 1939.
Mops, mopsticks, brooms, etc. Sears, Roebuck and Co. 368,517; June 20.
Tooth brushes. R. H. Macy & Co. 368,483; June 20; Serial No. 415,784; published Apr. 11, 1939.

CLASS 30

Porcelain ware. Den Kongelige Porcelainsfabrik. 125,799; renewed June 17, 1939.
Teacups and bowls. E. Day. 368,466; June 20; Serial No. 415,447; published Apr. 11, 1939.

CLASS 32

Bedsteads, mattresses, and pillows. Bernstein Manufacturing Company. 126,991; renewed Oct. 21, 1939.
Blinds and table pads, Venetian. Green Table Pad Corp. 368,507; June 20; Serial No. 416,606; published Apr. 11, 1939.
Mattresses. Li-on Bedding Company. 368,403; June 20; Serial No. 389,076; published Apr. 11, 1939.
Pillows. J. C. Penney Company. 368,514; June 20; Serial No. 416,773; published Apr. 11, 1939.
Shades, Window. Chas. W. Breneman Co. 368,529; June 20.

CLASS 34

Heaters and draft-hoods therefor, Gas, gasolene, and vapor water-. L. R. Mendelson. 127,445; renewed Nov. 11, 1939.

CLASS 35

Belts, belting, and hose. Goodyear Tire & Rubber Company. 368,498; June 20; Serial No. 416,140; published Apr. 11, 1939.
Hose. Hewitt Rubber Corporation. 368,482; June 20; Serial No. 415,777; published Apr. 11, 1936.

CLASS 36

Records and record blanks, Phonograph. American Record Corporation. 368,518; June 20.
Sound reproduction equipment, Electric. Webster Electric Company. 368,454; June 20; Serial No. 415,093; published Apr. 11, 1939.
Strings for banjos, violins, etc. National Musical String Co. 368,551; June 20.

CLASS 37

Envelopes. Cohoes Envelope Co. 368,429; June 20; Serial No. 413,511; published Apr. 11, 1939.
Pencils, penholders, rubber erasers, fountain-pens, Lead. Eagle Pencil Company. 126,269; renewed Aug. 19, 1939.
Paper and stationery. National Cash Register Company. 368,485; June 20; Serial No. 415,853; published Apr. 11, 1939.
Paper, Book. John D. Warren Company. 368,527; June 20.
Paper for foods, Wrapping. Hamersley Manufacturing Company. 368,474; June 20; Serial No. 415,715; published Apr. 11, 1939.
Paper tape, Gummed. Central Paper Company. 368,480; June 20; Serial No. 415,764; published Apr. 11, 1939.
Papers. Fox River Paper Corporation. 368,484; June 20; Serial No. 415,841; published Apr. 11, 1939.

CLASS 38

Chart device for application to a piano keyboard. Color-Chords. 368,522; June 20.
Prints, Photographic. H. J. Hite. 368,547; June 20.

CLASS 39

Apparel, Knitted wearing. Robert Bruce Knitwear Company. 368,540; June 20.

Blouses, waists, skirts, etc. I. Geist. 368,544; June 20.
Boots and shoes. A. A. Williams. 127,301; renewed Nov. 4, 1939.
Chemises, panties, night-gowns, etc. Garfinkel & Ritter. 368,460–1; June 20; Serial Nos. 415,335–6; published Apr. 11, 1939.
Clothing. Abraham & Straus, Inc. 368,435; June 20; Serial No. 414,179; published Apr. 11, 1939.
Clothing. Elder Manufacturing Company. 127,382; renewed Nov. 11, 1939.
Coats and suits. Brand and Puritz. 368,542; June 20.
Coats and suits. Joe & Ted Funk. 368,543; June 20.
Dresses, coats, suits, etc. Glass & Company, Dress Corp. 368,538; June 20.
Dresses, Ladies'. Warshauer & Franck, Inc. 368,546; June 20.
Girdles and brassières. Bilt-Rite Foundation Co. 368,439; June 20; Serial No. 414,682; published Apr. 11, 1939.
Gloves. B. F. Beverly. 368,458; June 20; Serial No. 415,243; published Apr. 11, 1939.
Hats, Men's. Adam Hat Stores, Inc. 368,443; June 20; Serial No. 414,908; published Apr. 11, 1939.
Hats, Women's, misses', and girls'. Everitt Hat Company. 368,420; June 20; Serial No. 412,222; published Apr. 11, 1939.
Hosiery. C. H. Roth & Co. 368,456; June 20; Serial No. 415,228; published Apr. 11, 1939.
Hosiery. Triumph Hosiery Mills, Inc. 368,545; June 20.
Neckties and mufflers, Men's. H. Isaacs Inc. 368,440; June 20; Serial No. 414,696; published Apr. 11, 1939.
Neckties and mufflers, Men's. McCurrach Organization Incorporated. 368,445; June 20; Serial No. 414,959; published Apr. 11, 1939.
Shirts. Sutton Shirt Corp. 368,536; June 20.
Shirts, undershirts, shorts, etc., Dress. H. L. Berck. 368,419; June 20; Serial No. 411,807; published Apr. 11, 1939.
Shirts, underwear, hosiery, etc. Gimbel Brothers, Inc. 368,554; June 20.
Shoes. Walker T. Dickerson Company. 368,524; June 20.
Shoes. C. M. Herring, Inc. 368,525; June 20.
Shoes. Nu-Way Shoe Co. 368,521; June 20.
Shoes, Ladies'. I. Miller & Sons, Inc. 368,464; June 20; Serial No. 415,407; published Apr. 11, 1939.
Shoes, Ladies'. I. Miller & Sons, Inc. 368,465; June 20; Serial No. 415,409; published Apr. 11, 1939.
Shoes, Men's. J. E. Lucey Shoe Co. 368,438; June 20; Serial No. 414,357; published Apr. 11, 1939.
Slips and panties. Aetna Products. 368,530; June 20.

CLASS 40

Buttons. Rochester Button Company. 368,462; June 20; Serial No. 415,352; published Apr. 11, 1939.
Fabrics of gold, silver or their alloys, Woven or braided. Rowland Accouterments, Inc. 368,431; June 20; Serial No. 413,684; published Apr. 11, 1939.

CLASS 42

Carpets and rugs. Chicago Mail Order Company. 368,504; June 20; Serial No. 416,247; published Apr. 11, 1939.
Cloth, Shade. Oswego Shade Cloth Company. 125,833; renewed June 17, 1939.
Cotton piece goods. C. B. Hayward & Co. 125,441; renewed May 20, 1939.
Cotton piece goods. C. B. Hayward & Co. 125,443; renewed May 20, 1939.
Fabrics, Window-shade. E. I. du Pont de Nemours and Company. 368,501; June 20; Serial No. 416,227; published Apr. 11, 1939.
Piece goods. Riverside & Dan River Cotton Mills, Inc. 368,496; June 20; Serial No. 416,112; published Apr. 11, 1939.
Silk piece goods. W. Skinner & Sons. 368,497; June 20; Serial No. 416,117; published Apr. 11, 1939.
Woolen fabrics. Lowe, Donald & Co. Inc. 368,459; June 20; Serial No. 415,296; published Apr. 11, 1939.

CLASS 43

Yarn. Jordan Mills, Inc. 368,463; June 20; Serial No. 415,399; published Mar. 28, 1939.

CLASS 44

Atomisers, bidet cushions, nursing nipples for cattle, etc. Società Italiana Pirelli. 368,421; June 20; Serial No. 412,310; published Apr. 11, 1939.
Dental cellulose material. Coralite Dental Products Company. 368,416; June 20; Serial No. 410,455; published Apr. 11, 1939.
Needles with multiple sutures, surgical needles, and sutures for surgical use. J. A. Deknatel & Son. 368,506; June 20; Serial No. 416,548; published Apr. 11, 1939.
Toilet articles. E. I. du Pont de Nemours and Company. 368,506; June 20; Serial No. 416,548; published Apr. 11, 1939.
Waving pads, Permanent. Gibbs & Company. 368,430; June 20; Serial No. 413,630; published Apr. 11, 1939.

CLASS 45

Beverages and for the concentrates thereof, Maltless. Grandpa Brands Company. 368,508; June 20; Serial No. 416,630; published Apr. 11, 1939.
Juice base for beverages, Natural fruit. S. Terry. 368,409; June 20; Serial No. 402,451; published Apr. 11, 1939.

CLASS 46

Beverage made from beans, figs, and grains. Loma Linda Food Company. 368,528; June 20.
Biscuit. National Biscuit Company. 127,653; renewed Nov. 18, 1939.
Confections, Frozen. Frozen Novelties, Inc. 368,410; June 20; Serial No. 402,595; published Apr. 11, 1939.
Fats, Vegetables. J. Bibby & Sons Limited. 368,417; June 20; Serial No. 410,633; published Apr. 11, 1939.
Flour and gravy flour, Biscuit. Giessing Milling Company. 368,433; June 20; Serial No. 413,988; published Apr. 11, 1939.
Flour, Wheat. Pillsbury Flour Mills Company. 368,471; June 20; Serial No. 415,663; published Apr. 11, 1939.
Fruit, Fresh citrus. Texas Fruit Growers Exchange. 368,493; June 20; Serial No. 415,696; published Apr. 11, 1939.
Fruit, Fresh citrus. West Ontario Citrus Association. 368,404; June 20; Serial No. 398,949; published Nov. 29, 1938.
Fruits and vegetables, Fresh citrus. Ferguson Marketing Service, Inc. 368,434; June 20; Serial No. 414,144; published Apr. 11, 1939.
Ice cream cones. Loose-Wiles Biscuit Company. 368,494; June 20; Serial No. 415,991; published Apr. 11, 1939.
Salt. Carey Salt Co. 368,467; June 20; Serial No. 415,497; published Apr. 11, 1939.
Syrup. Penick & Ford, Ltd. Incorporated. 368,442; June 20; Serial No. 414,889; published Apr. 11, 1939.
Tea. A. Ehlers, Inc. 368,489; June 20; Serial No. 415,879; published Apr. 11, 1939.
Tea. A. Ehlers, Inc. 368,490; June 20; Serial No. 415,882; published Apr. 11, 1939.

CLASS 47

Wines. Southland Wine Corporation. 368,418; June 20; Serial No. 410,669; published Apr. 11, 1939.

CLASS 48

Ale, Cream. Handy Beer and Wine Company. 368,453; June 20; Serial No. 415,081; published Apr. 11, 1939.
Beer. B. Long. 368,468; June 20; Serial No. 415,554; published Apr. 11, 1939.
Beer. Storz Brewing Company. 368,457; June 20; Serial No. 415,234; published Apr. 11, 1939.
Malt beverages. C. Schmidt & Sons, Inc. 368,437; June 20; Serial No. 414,240; published Apr. 11, 1939.

CLASS 49

Whiskey. James Distillery, Inc. 368,499; June 20; Serial No. 416,147; published Apr. 11, 1939.
Whiskey. K. Taylor Distilling Co. 368,401–2; June 20; Serial Nos. 416,933–4; published Apr. 11, 1939.
Whiskey, Bourbon. James B. Beam Distilling Co. 368,532; June 20.
Whiskey, gin, rum, etc. R. L. Buse Company Incorporated. 368,510; June 20; Serial No. 416,642; published Apr. 11, 1939.
Whiskey, gin, rum, etc. Schenley Distillers Corporation. 368,452; June 20; Serial No. 415,057; published Apr. 11, 1939.
Whiskey, Kentucky straight Bourbon. Minardo Bros. Fruit Co. 368,495; June 20; Serial No. 415,993; published Apr. 11, 1939.

CLASS 50

Closures for tanks, drums, etc. Sterling Products Company. 368,427; June 20; Serial No. 413,085; published Apr. 11, 1939.
Set consisting of a mug and soap, Combination. Shulton, Inc. 368,426; June 20; Serial No. 412,675; published Apr. 11, 1939.
Straws, Drinking. Eagle Straw Corporation. 368,405; June 20; Serial No. 392,263; published July 6, 1937.

LIST OF LABELS

Chocolate Flavored Ovaltine. For a Food Beverage. Wander Company. 53,168; June 20.
Fawndale Maryland Straight Rye Whiskey. For Straight Rye Whiskey. W. J. Wardall. 53,169; June 20.
Fruits, Nuts & Special Pieces. For Chocolates. Daggett Chocolate Company. 53,155; June 20.
Fluff Crepe. For Toilet Paper. Fort Howard Paper Company. 53,157; June 20.

Gulf Wave. For Preserved Figs. M. S. Drake. 53,156; June 20.
Home Twist Bread. For Bread. Hoyler Baking Company. 53,159; June 20.
"Junket" Freezing Mix. For a Freezing Mix for Making Ice Cream. Chr. Hansen's Lab., Inc. 53,158; June 20.
Kinney's Tub 'O' Butter. For Butter. B. R. Kinney and Son, Inc. 53,161–2; June 20.
Lea's Hair Preparation. For a Preparation for Restoring Color to Gray Hair. Vasco Products, Inc. 53,166–7; June 20.
Milwaukee Club. For Beer. Jos. Schlitz Brewing Company. 53,164; June 20.
Newport Distilled Dry Gin. For Distilled Dry Gin. Hunter Baltimore Dry Distillery, Inc. 53,160; June 20.
The Correct Belt Display. For Sport Belts. Ohio Textile Products Company. 53,163; June 20.
Vi-Litron. For Capsules Containing Liver Concentrate and Iron with Biologically Standardized Vitamins B_1, B_2 (G) and C. U. S. Vitamin Corporation. 53,165; June 20.
Walk Miles with Smiles. For Rubber Heels. Borman Pneumatic Heel Company. 53,154; June 20.

LIST OF PRINTS

A Combined Liquid Air or CO_2 Air Chamber and Trap. For a Combined Liquid Air or CO_2 Air Chamber and Trap. Otto R. Greiner Co. 17,459; June 20.
How about a Nice Steak for Dinner Today. For Steaks. Transparent Package Company. 17,461; June 20.
Movrak. For a Portable Casing or Oil Tool Rack. E. A. Bender. 17,456; June 20.
New du Pont Paint Keeps White Houses Whiter. For Paints and Varnishes. E. I. du Pont de Nemours & Company. 17,457; June 20.
"Stitch"-In Envelopes. For The Popular Mechanics Magazine. Garden City Envelope Company. 17,458; June 20.
Tastykake. For Cake. Tasty Baking Company. 17,460; June 20.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)

De Seversky, Alexander P., New York, N. Y., assignor, by mesne assignments, to Seversky Aircraft Corporation. Landing gear for aircraft. Re. 21,120; June 20.

Lassiter, Alwyn D., Philadelphia, Pa., assignor, by mesne assignments, to Western Electric Company, Incorporated. Talking motion picture apparatus. Re. 21,121; June 20.

Lomax, Frank B., Chicago, Ill. Filtering eggs. Re. 21,122; June 20.

Meck, Edgar N., Portsmouth, Ohio, assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Taping and binding shoes. Re. 21,123; June 20.

Minnesota Mining & Manufacturing Company. (See Meck, Edgar N., assignor.)

Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Radial plain bearing for grease lubrication. Re. 21,124; June 20.

Ruppel, Sigwart, deceased, Berlin, Germany, by F. Strauss, Milan, Italy, heir. Switch. Re. 21,125; June 20.

Seversky Aircraft Corporation. (See de Seversky, Alexander P., assignor.)

Strauss, Frida. (See Ruppel, Sigwart.)

Western Electric Company. (See Lassiter, Alwyn D., assignor.)

LIST OF PLANT PATENTEES

Aicardi, Domenico, San Remo, Italy, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 332; June 20.

Jackson & Perkins Company. (See Aicardi, Domenico, assignor.)

Jackson & Perkins Company. (See Nicolas, Jean H., assignor.)

Nicolas, Fannie, administratrix. (See Nicolas, Jean H.)

Nicolas, Jean H., deceased, by F. Nicolas, administratrix, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 331; June 20.

LIST OF DESIGN PATENTEES

Albel, Samuel H., New York, N. Y. Veiling. 115,366; June 20.

Albright, Harry I., Akron, Ohio. Bed lamp or similar article. 115,325; June 20.

American Brake Shoe and Foundry Company, The. (See Herron, Frank T., assignor.)

American Car and Foundry Motors Company. (See Mathauer, Edmund G., assignor.)

American Optical Company. (See Splaine, Edward M., assignor.)

Andres, Lloyd J., Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich. Electric remote controller casing. 115,305; June 20.

Andres, Lloyd J., Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich. Electric remote controller casing. 115,306; June 20.

Automatic Instrument Company. (See Andres, Lloyd J., assignor.)

Axel, Benjamin, Brooklyn, N. Y. Finger ring. 115,283; June 20.

Barty, Helen, Brooklyn, N. Y. Hat. 115,368; June 20.

Beaver Pipe Tools, Inc. (See Pealer, Robert B., assignor.)

Bickford, Ernest A., assignor to Wiley-Bickford-Sweet Corp., Worcester, Mass. Slipper. 115,327; June 20.

Binon, Georges, Paris, France, assignor to The Food Dispenser Company. Combined liquid dispenser and support therefor. 115,328; June 20.

Block, Harold, New York, N. Y. Muff or similar article. 115,369; June 20.

Brabenec, Gustav. (See Hildebrand, O. G., and Brabenec.)

Bradley, Ralph A., Kansas City, and R. D. George, Raytown, assignors to Butler Manufacturing Company, Kansas City, Mo. Trailer tank. 115,342; June 20.

Breingan, Alexander W., New York, N. Y. Photographic contact printing frame. 115,307; June 20.

Brody, Adelé, Brooklyn, N. Y. Dress. 115,355; June 20.

Brody, Adelé, Brooklyn, N. Y. Dress. 115,356; June 20.

Brody, Adelé, Brooklyn, N. Y. Dress ensemble. 115,357; June 20.

Burgund, Albert C., Tuckahoe, N. Y., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Bottle. 115,343; June 20.

Butler Manufacturing Company. (See Bradley, R. A., and George, assignors.)

Carr-Lowrey Glass Co. (See Burgund, Albert C., assignor.)

Caverly, Donald P., Marblehead, Mass. Sterile glass storage unit. 115,284; June 20.

Chalk, Benjamin, New York, N. Y. Coat. 115,358; June 20.

Chapman, David, Chicago, Ill. Fan support. 115,344; June 20.

Chott, Edward L., Chicago, Ill. Dental tool. 115,326; June 20.

City Novelty Corporation. (See Mantz, Robert, assignor.)

Clark, Verdric F., New Albany, Ind., assignor to Peerless Manufacturing Corporation, Louisville, Ky. Stoker. 115,308; June 20.

Cloutier, Paul N., assignor to Faries Manufacturing Company, Decatur, Ill. Sun lamp. 115,329; June 20.

Colt's Patent Fire Arms Manufacturing Company. (See Conner, Benjamin F., assignor.)

Conkling, Robert A., Jr., Olean, N. Y., assignor of one-half to K. D. Fobes, Hollywood, Calif. Table or similar article. 115,285; June 20.

Conley, Daniel J., Seattle, Wash. Statuette. 115,330; June 20.

Conner, Benjamin F., West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Powder box. 115,331; June 20.

Council, John M., Wananish, N. C. Hoe. 115,309; June 20.

Crown Stove Works. (See Rogers, Walter F.)

Crystal, David, New York, N. Y. Dress. 115,359; June 20.

Dellinger, Martin C., assignor to K-D Manufacturing Company, Lancaster, Pa. Letter opener. 115,310; June 20.

Dillon, David, New York, N. Y. Combined radio cabinet, utility cabinet and book case. 115,345; June 20.

Dreyfuss, Henry, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio. Casing for suction cleaners or similar articles. 115,286; June 20.

Duncan, Theodore R., Los Angeles, Calif. Animal figure. 115,311; June 20.

Edelmann, E., & Co. (See Thomas, Joseph C., assignor.)

Edelmann, Leo, Chicago, Ill. Battery service kit or the like. 115,312; June 20.

Ekstrand Manufacturing Company. (See Montgomery, Frederick G., assignor.)

Erickson, C. E., Company. (See Evans, Aubrey M., assignor.)

Evans, Aubrey M., Webster Groves, Mo., assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Shelf for a display rack. 115,287; June 20.

Faries Manufacturing Company. (See Cloutier, Paul N., assignor.)

Fish, Ned D., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Mechanical pencil or similar article. 115,288; June 20.

Fobes, Kenneth D. (See Conkling, Robert A., Jr., assignor.)

Food Dispenser Company. (See Binon, Georges, assignor.)

Forstmann, Curt E., Montclair, N. J. Textile fabric. 115,372; June 20.

Forstmann, Curt E., Montclair, N. J. Textile fabric. 115,373; June 20.

Forstmann, Curt E., Montclair, N. J. Textile fabric. 115,374; June 20.

Freedman, George. (See Livingston, W., and Freedman.)

General Motors Corporation. (See Meyer, Paul A., assignor.)
George, Ralph D. (See Bradley, R. A., and George.)
Hammer, Birchall, Elkins Park, Pa. Picture exhibiting medallion. 115,332; June 20.
Helzick, Benjamin, Brooklyn, N. Y. Camera or similar article. 115,313; June 20.
Herron, Frank T., Chattanooga, Tenn., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Stove. 115,314; June 20.
Hershman, Oakley H., Indianapolis, Ind. Traffic marker. 115,333; June 20.
Herzog, Milton H., Chicago, Ill. Ring. 115,289; June 20.
Hildebrand, Otto G., and G. Brabenec, Cleveland, Ohio; said Brabenec assignor to said Hildebrand. Lens remover for automobile headlights. 115,334; June 20.
Hill, Sydney E., assignor to Pearson-Page-Jewsbury Co. Limited, Witton, Birmingham, England. Vase or similar article. 115,290; June 20.
Hinckley-Myers Company. (See Price, Arthur E., assignor.)
Hollister, Frank O., and P. W. Wortman, Los Angeles, Calif. Beater. 115,335; June 20.
Hoover Company, The. (See Dreyfuss, Henry, assignor.)
Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)
Hilmer, Louis. (See Stuart, Harve R., assignor.)
Jaros, Lawrence, assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Burner. 115,336; June 20.
Jarvis & Jarvis, Inc. (See Scudder, Eliot R., assignor.)
Julianelli, Charles A. (See Winkel M., and Julianelli.)
K-D Manufacturing Company. (See Dellinger, Martin C.)
Katz, Louis, New York, N. Y. Dress ensemble. 115,360; June 20.
Koch, Philip, Philadelphia, Pa. Wall clock. 115,315; June 20.
Livington, William, Brooklyn, and G. Freedman, New York, N. Y. Game board. 115,337; June 20.
Mandel, Edward, Cleveland, Ohio. Bathing suit. 115,370; June 20.
Mantz, Robert, assignor to City Novelty Corporation, New York, N. Y. Linked chain. 115,346; June 20.
Marks, Murray J., New York, N. Y. Hat. 115,371; June 20.
Mathauer, Edmund G., Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y. Highway vehicle. 115,347; June 20.
McDonald, Thomas M., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. X-ray unit. 115,291; June 20.
McLaughlin, Charles, Garden City, N. Y., assignor to Tilton & Cook Co., Leominster, Mass. Bag frame. 115,361; June 20.
Meyer, Paul A., assignor to General Motors Corporation, Detroit, Mich. Combined automobile hood and fender. 115,348; June 20.
Montgomery, Frederick G., Westfield, N. J., assignor to Ekstrand Manufacturing Company, Inc., New York, N. Y. Ashtray. 115,349; June 20.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Sink cabinet. 115,316; June 20.
Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Draft diverter for domestic water heaters or the like. 115,338; June 20.
Muckenhirn, Ottilie, Basle, Switzerland. Mop cloth. 115,339; June 20.
Newman, Louis, New York, N. Y. Woven textile fabric. 115,375; June 20.
Ox Fibre Brush Company. (See Partridge, Melvin H., assignor.)
Pakula, Harry S., Chicago, Ill. Merchandise display rack. 115,292; June 20.
Partridge, Melvin H., New Rochelle, assignor to Ox Fibre Brush Company, Inc., New York, N. Y. Dauber. 115,317; June 20.
Pealer, Robert B., assignor to Beaver Pipe Tools, Inc., Warren, Ohio. Power drive unit for use with hand cutting tools. 115,318; June 20.
Pearson-Page-Jewsbury Co. Limited. (See Hill, Sydney E., assignor.)
Peerless Manufacturing Corporation. (See Clark, Verdrie F., assignor.)
Pfuhl, Louise, Rochelle Park, N. J. Plate or similar article. 115,350; June 20.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 115,293; June 20.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 115,294; June 20.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Clip or similar article. 115,295; June 20.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Clip or similar article. 115,296; June 20.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 115,297; June 20.
Platt, Stephen A., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Roll warmer or the like. 115,298; June 20.
Posnack, Emanuel R., New York, N. Y. Combination desk unit. 115,319; June 20.
Posnack, Emanuel R., New York, N. Y. Combination desk unit. 115,320; June 20.
Price, Arthur E., assignor to Hinckley-Myers Company, Jackson, Mich. Tension wrench. 115,299; June 20.
Pueschel, Paul, Glencoe, Ill. Bird feeding station. 115,321; June 20.
Rask, Harry J., Portland, Oreg. Combined display case and stand. 115,351; June 20.
Reich, Melvin A., Buffalo, N. Y. Finger ring. 115,300; June 20.
Rogers, Walter F., Oak Park, assignor to Crown Stove Works, Cicero, Ill. Range. 115,362; June 20.
Rosenthal, Samuel W., New York, N. Y. Adjustable lamp. 115,340; June 20.
Rubino, Ralph, New York, N. Y. Napkin. 115,377; June 20.
Schoenberger, W. J., Company, The. (See Jaros, Lawrence, assignor.)
Scudder, Eliot R., Braintree, assignor to Jarvis & Jarvis, Inc., Palmer, Mass. Chambermaid's truck. 115,352; June 20.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Sheaffer, W. A., Pen Company. (See Fish, Ned D., assignor.)
Spexarth, August G., Astoria, Oreg. Wrench. 115,301; June 20.
Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Bridge for ophthalmic mountings. 115,302; June 20.
Sterngold, Jacob M., New York, N. Y. Dress. 115,363; June 20.
Stone, Mollie, New York, N. Y. Dress. 115,364; June 20.
Strauss, Ira, New York, N. Y. Textile fabric. 115,367; June 20.
Strauss, Ira, New York, N. Y. Textile fabric. 115,376; June 20.
Streit, Irving, New York, N. Y. Matzo. 115,322; June 20.
Stuart, Harve R., Springfield, Ohio, assignor of one-half to L. Illmer, Cortland, N. Y. Direction indicating signal controller for automotive vehicles. 115,341; June 20.
Thomas, Joseph C., Akron, Ohio, assignor to E. Edelmann & Co., Chicago, Ill. Battery service kit or the like. 115,353; June 20.
Tilton & Cook Co. (See McLaughlin, Charles, assignor.)
Tobin, Nathan H., Brooklyn, N. Y. Woman's coat. 115,365; June 20.
Trifari, Krussman & Fishel, Inc. (See Philippe, Alfred, assignor.)
U. S. Manufacturing Corporation. (See Platt, Stephen A., assignor.)
Urbanek, James F., Elmwood Park, Ill. Merchandise display stand. 115,303; June 20.
Weber Dental Manufacturing Company, The. (See McDonald, Thomas M., assignor.)
Wilite, Henderson N., assignor to The H. N. White Company, Cleveland, Ohio. Neck strap attachment for a saxophone. 115,354; June 20.
White, H. N., Company, The. (See White, Henderson N., assignor.)
Wiley-Bickford-Sweet Corp. (See Bickford, Ernest A., assignor.)
Winkel, Mabel, and C. A. Julianelli, New York, N. Y. Shoe. 115,323; June 20.
Wortman, Paul W. (See Hollister, F. O., and Wortman.)
Wyman, Harry L., Minneapolis, Minn. Store front. 115,304; June 20.
Zell, David H., Brooklyn, N. Y. Vanity case or similar article. 115,324; June 20.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Alva A., Turlock, Calif. Pressure grease dispenser. 2,163,366; June 20.
Abbott Laboratories. (See Tabern, Donalee L., assignor.)
Abercrombie, James S., and H. Allen, Houston, Tex. Drilling valve. 2,162,990; June 20.
Abrams, Allan C., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Grinding wheel reciprocating mechanism. 2,163,443; June 20.
Acklin Stamping Company, The. (See Smith, Harry F., assignor.)
Adamoli, Piero. (See Opatowski, R. O., and Adamoli.)
Adams, Hale D., Galesburg, Ill. Connecting driving elements and the article produced thereby. 2,162,902; June 20.
Aero-Style Corporation. (See Harroun, R. W., and Zimmerman, assignors.)
Aerovox Corporation. (See Rhodes, Howard E., assignor.)
Ager-Wick, Emil, Arendal, Norway. Adjustable candlestick. 2,163,137; June 20.
Agfa Ansco Corporation. (See Wilmanns, G., Schneider, and Wendt, assignors.)
Agnew, Norman F., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,162,903; June 20.
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid compressor. 2,163,391; June 20.
Air Reduction Company. (See Tisza, E. E., and Tyrner, assignors.)
Aktiebolaget Ljungstroms Angturbin. (See Lysholm, Alf., assignor.)
Aktiebolaget Milo. (See Lysholm, Alf., assignor.)
Aktiebolaget Spontan. (See Wettstein, Fritz A., assignor.)
Alexander, Peter P., assignor to Metal Hydrides Inc., Marblehead, Mass. Production of alloys. 2,163,224; June 20.
Algin Corporation of America. (See Le Gloahec, Victor C. E., assignor.)
Allen, Herbert. (See Abercrombie, J. S., and Allen.)
Alliance Machine Company, The. (See Harry, Robert J., assignor.)
Allison, John R., Whittier, Calif. Aqueous vehicle having emulsifying properties. 2,162,906; June 20.
Allison, John R., Whittier, assignor, by mesne assignments, to Union Oil Company of California, Los Angeles, Calif. Spray oil composition. 2,162,904; June 20.
Allison, John R., Whittier, Calif. Aqueous vehicle for plant spraying materials. 2,162,905; June 20.
American Brake Shoe and Foundry Company, The. (See Wilson, Rosser L., assignor.)
American Can Company. (See Titchen, C., and Boehl, assignor.)
American Car and Foundry Company. (See Nichols, Ralph G., assignor.)
American Gas Machine Company. (See Jenson, Kenneth S., assignor.)
American-National Company, The. (See Snell, Samuel A., assignor.)
American Optical Company. (See Moseley, Edward H., assignor.)
American Optical Company. (See Pellow, Arthur, assignor.)
American Rock Wool Corporation. (See Gregory, Jesse H., assignor.)
American Seating Company. (See Merrill, Ralph K., assignor.)
American Smelting and Refining Company. (See Betterton, J. O., and Lebedeff, assignors.)
American Stay Company. (See Presby, Leroy Q., assignor.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Telephone and Telegraph Company. (See Edwards, Paul G., assignor.)
American Telephone and Telegraph Company. (See Slocum, Harvey F., assignor.)
American Thermos Bottle Company, The. (See Payson, A. H., and Duevel, assignors.)
Ammonia Casale Societa Anonima. (See Zavka, Mario, assignor.)
Anaconda Wire & Cable Company. (See Freeland, Orville F., assignor.)
Anchor Hocking Glass Corporation. (See Lavere, Carroll K., assignor.)
Anderson, Emil C., Downers Grove, Ill. Railway truck. 2,163,253; June 20.
Anderson, Leslie D., Carlsbad, N. Mex., assignor to Potash Company of America, Denver, Colo. Water repellent coating process and product produced thereby. 2,162,690; June 20.
Andrix, Earl R. (See Okey, Perry, assignor.)
Anschütz, Robert, Zella-Mehlis, Thuringia, assignor to Mercedes Buromaschinen-Werke Aktiengesellschaft, Benshausen, Germany. Computing mechanism. 2,162,691; June 20.
Ansco Corporation. (See Kumetat, K., and Gassner, assignors.)
Apple, Bessie D. (See Cotterman, Frederick W., assignor.)
Arden Farms, Inc. (See Berch, Samuel H., assignor.)
Arden Farms, Inc. (See Ray, Don, assignor.)
Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Lighting fixture. 2,163,225; June 20.
Arieti, Eugene, Springfield, Mass. Creeper. 2,162,928; June 20.
Arkell, Bartlett. (See Townsend, Harry E., assignor.)
Armour and Company. (See Ralston, Anderson W., assignor.)
Armour and Company. (See Ralston, A. W., and Christensen, assignors.)
Armstrong-Blum Mfg. Co. (See Blum, George J., assignor.)
Armstrong Cork Company. (See Barnes, Spencer L., assignor.)
Armstrong Cork Company. (See Claxton, E., and Paschke, assignors.)
Armstrong, Fullerton G. G., Beverley, East Yorkshire, England. Door lock. 2,162,929; June 20.
Arpin, Leonard G., Jackson Heights, N. Y. Hair curling device. 2,163,524; June 20.
Arrow-Hart & Hegeman Electric Company, The. (See Dahl, Magnus G., assignor.)
Associated Electric Laboratories, Inc. (See Obergfell, Herbert F., assignor.)
Ault, Waldo C., and C. A. Hochwalt, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Refining hydrocarbon distillates. 2,162,992; June 20.
Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa. Earth moving device. 2,162,993; June 20.
Baagoe, Anthon J., Paris, France. Weighing apparatus. 2,163,183; June 20.
Bagley, Robert N., and F. M. Ralston, Eureka, Calif. Coin wrapping device. 2,163,509; June 20.
Baily, Thaddeus F., Alliance, Ohio. Continuous strip furnace. 2,162,692; June 20.
Bakelite Gesellschaft mit beschränkter Haftung. (See Süssenguth, Otto, assignor.)
Baker, Walter, assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Excavating shovel. 2,162,994; June 20.
Baldeschwieler, Emile L. Cranford, N. J., assignor to Standard Oil Development Company. Manufacturing boron fluoride. 2,163,232; June 20.
Baldwin, Clyde P. (See Joy, J. F., and Baldwin.)
Baldwin, Myron H., Milwaukee, Oreg. Display container. 2,163,138; June 20.
Ball, Francis J., Jr., and V. J. Ball, Willow Grove, Pa. Interior wall construction of buildings. 2,163,314; June 20.
Ball, George A. (See Lugington, Lawrence L., assignor.)
Ball, Vincent J. (See Ball, Francis J., Jr., and V. J.)
Ballou, B. A., & Co. (See Morehouse, Eugene, assignor.)
Bambach, Frank J., West Hartford, Conn. Fountain brush. 2,162,907; June 20.
Baptiste, William. (See Wickenden, L., and Baptiste.)
Barker, Wellington D., assignor to The Keyes-Davis Company, Battle Creek, Mich. Marking band. 2,163,016; June 20.
Barna, Joseph W., assignor of forty-nine per cent to C. A. Laystrom, Chicago, Ill. Manufacture of shoes. 2,163,184; June 20.
Barnes, Blakeslee, assignor to Chemical Construction Corporation, New York, N. Y. Manufacture of abrasive alumina. 2,163,532; June 20.
Barnes, Spencer L., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Dropper service. 2,163,367; June 20.
Barney, Freeman. (See Lee, J. E., and Barney.)
Barrett Company, The. (See Drewsen, Pierre, assignor.)
Barrett Company, The. (See Hamlin, Marston L., assignor.)
Barrett Company, The. (See Kenney, John A., assignor.)

Barrett, Edward R., Detroit, Mich., assignor to Gar Wood Industries, Inc. Automobile dump body and hoist. 2,162,831; June 20.

Bart, Thomas E., assignor to The Murdock Manufacturing & Supply Company, Cincinnati, Ohio. Locking means for covers for water boxes. 2,162,930; June 20.

Bartels, Bernhard, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Double mosaic screen. 2,163,266; June 20.

Bartels, Hans, and G. Ulbricht, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Dynamic expansion circuit. 2,162,875; June 20.

Barton, William I., Camden, N. J. Board game apparatus. 2,162,876; June 20.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,163,533; June 20.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,163,534; June 20.

Bassett, Charles K., Buffalo, N. Y. Liquid meter. 2,163,444; June 20.

Bassi, Felice. (See Gallo, G.; Bassi, Giovanni B., F., and L; and Calliera.)

Bassi, Giovanni B. (See Gallo, G.; Bassi, Giovanni B., F., and L.; and Calliera.)

Bassi, Luigi. (See Gallo, G.; Bassi, Giovanni B., F., and L.; and Calliera.)

Bauer, Arno. (See Fritzsche, R., and Bauer.)

Baumgarten, Lawrence C., Hornell, N. Y., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Valve. 2,162,832; June 20.

Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding apparatus. 2,162,795; June 20.

Beaty, Julian B. (See Deschere, Harvey, assignor.)

Beau May Process Corporation. (See Wickenden, L., and Baptiste, assignors.)

Becker, Joseph, Pittsburgh, Pa., assignor to Koppers Company. Coking retort oven. 2,163,168; June 20.

Beckman, Fred G., Muskogee, Okla. Apparatus for cleaning and pumping oil wells. 2,163,115; June 20.

Beckmann, Jacob H., New York, N. Y. Safety garment hanger. 2,162,796; June 20.

Bedford, Alda V., Collingswood, and K. J. Magnusson, Merchantville, N. J., assignors to Radio Corporation of America. Television camera apparatus. 2,162,908; June 20.

Bell Telephone Laboratories, Incorporated. (See Fay, Clifford E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Kinkead, Fullerton S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Kircher, Reymond J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Koechling, Charles D., assignor.)

Bell Telephone Laboratories, Incorporated. (See Logan, Mason A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Meacham, Larned A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Owendoff, Harold M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Samuel, Arthur L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Wiesbusch, Charles F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Wurmser, Alphons V., assignor.)

Bello, Mary, Brooklyn, N. Y. Man's vest. 2,163,392; June 20.

Belmont Hosiery Company. (See Stroud, Paul G., assignor.)

Belstrup, Frederik V., Copenhagen, Denmark. Whirligig. 2,163,185; June 20.

Benedek, Elek K., Bucyrus, Ohio. Hydraulic transmission. 2,163,079; June 20.

Benedek, Elek K., Bucyrus, Ohio. Multistage pump or motor. 2,163,080; June 20.

Berch, Samuel H., Beverly Hills, assignor to Arden Farms, Inc., Los Angeles, Calif. Package for food products and the like. 2,163,017; June 20.

Berg, Alfred J., Portsmouth, N. H., and J. O. Huse, U. S. Navy. Making a heat exchange element. 2,162,693; June 20.

Berg, Alfred J., Portsmouth, N. H., and J. O. Huse, U. S. Navy. Making a heat exchanging element. 2,162,694; June 20.

Bergen, Lewis S. (See Payson, P., Bergan, and Hodapp.)

Berger, Henry G., Woodbury, R. C. Moran, Wenonah, and F. M. Seger, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Thiocarbonated-chloraliphatic hydrocarbons and making same. 2,163,535; June 20.

Bergeron, Arthur J., Portsmouth, N. H. Poultry feeder. 2,163,186; June 20.

Berghaus, Bernhard. (See Burkhardt, W., and Reinecke, assignors.)

Bernier, Edouard, Chicago, assignor of one-half to George A. Scheibel, Wilmette, Ill. Erasing device. 2,163,018; June 20.

Bethlehem Steel Company. (See Cooper, William W., assignor.)

Betterton, Jesse O., and Y. E. Lebedeff, Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Lead alloy. 2,163,368; June 20.

Betterton, Jesse O., and Y. E. Lebedeff, Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Lead alloy. 2,163,369; June 20.

Bettis, Leslie W. (See Levy, Solomon M., assignor.)

Bieber, Lynn W., Audubon, N. J., assignor to Intertype Corporation, Brooklyn, N. Y. Vise for typographical machines. 2,163,536; June 20.

Bilde, Tord E. D., Stockholm, Sweden. Whip-stitching attachment for sewing machines. 2,163,187; June 20.

Binder, Richard, and H. Klein, Schweinfurt, Germany. Hydraulic shock absorber with regulating device. 2,163,254; June 20.

Binder, Richard, and H. Klein, Schweinfurt, Germany. Hydraulic shock absorber of the piston and cylinder type. 2,163,255; June 20.

Biolite Incorporated. (See Rosenblatt, Philip, assignor.)

Bisch, Alvin, Chicago, Ill. Amusement device. 2,162,877; June 20.

Bisch, Alvin, Chicago, Ill., assignor to Bisch-Rocco Amusement Co. Amusement device. 2,163,360; June 20.

Bisch-Rocco Amusement Co. (See Bisch, Alvin, assignor.)

Bissell, David J., Spokane, Wash. Lifting jack. 2,162,931; June 20.

Bittermann, Ferdinand J. (See Gosling, E. P., and Bittermann.)

Blackley, James L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Ink fountain. 2,163,335; June 20.

Blake, George A., New Bedford, Mass. Dispensing apparatus. 2,163,081; June 20.

Blanchard, Frederick C., Brookline, Mass. Lubricating apparatus. 2,162,932; June 20.

Blessin, Siegfried E., Short Hills, assignor to The National Lock Washer Company, Newark, N. J. Front or rear window construction for motor buses or the like. 2,163,566; June 20.

Blott, John F. T. (See Gabriel, L. G., and Blott.)

Blount, William H., Worcester, and C. F. Fisher, Spencer, assignors to Sleeper & Hartley, Incorporated, Worcester, Mass. Wire coiling machine. 2,163,019; June 20.

Blum, George J., assignor to Armstrong-Blum Mfg. Co., Chicago, Ill. Variable speed drive mechanism. 2,162,772; June 20.

Boddy, William H., Feltham, assignor to Newton Brothers (Derby) Limited, Derby, England. Control mechanism or variable throw hydraulic pumps. 2,163,479; June 20.

Boehl, Wilhelm. (See Titchen, C., and Boehl.)

Bogdan, Mihai, Ploesti, Rumania, assignor to Shell Development Company, San Francisco, Calif. Stabilizing organic heavy metal salts. 2,163,020; June 20.

Bögemann, Max. (See Ulrich, H., Ploetz, and Bögemann.)

Boldt, Werner F., Overland, and B. Dick, Ferguson, assignors to Wagner Electric Corporation, St. Louis, Mo. Combined compressor and power cylinder. 2,162,797; June 20.

Bolinger, John C., West Hollywood, W. A. Howard, Whittier, and P. Woolley, Huntington Park, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Protecting condenser tubes and the like from corrosion or salt deposition. 2,162,933; June 20.

Bonotto, Michele, Evansville, Ind., assignor to Extractol Process, Ltd., Wilmington, Del. Separating solvent from oil in miscella and like mixtures. 2,163,303; June 20.

Booth, William K., doing business as Equipment Engineering Company. (See Glaze, Herbert L., assignor.)

Bosch, Robert, Gesellschaft mit beschränkter Haftung. (See Voit, Willy, assignor.)

Bosché, André, Paris, France. Remotely controlled luminous exhibitor. 2,163,188; June 20.

Bostelmann, William E., Elmwood Park, Ill. Combination carbonating and bottle filling machine. 2,163,267; June 20.

Bouwers, Albert, and A. Kuntke, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray apparatus. 2,162,833; June 20.

Boyd, John B., Sr., Reno, Nev. Tile. 2,162,695; June 20.

Boydston, Walter. (See Warren, P. C., and Boydston.)

Boyle, Alfred A. (See Young, L., and Boyle.)

Bradley, V. A. (See Wagner, Frank C., assignor.)

Brailsford, Joseph D., London, England, assignor to Radio Corporation of America. Automatic gain control circuits. 2,162,878; June 20.

Brandon, Joseph L., Los Angeles, Calif. Carburetor. 2,163,139; June 20.

Brandt Automatic Cashier Company. (See Brandt, Edward J., assignor.)

Brandt, Edward J., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Coin delivery chute. 2,163,082; June 20.

Brandt, Francis L., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing machine. 2,162,798; June 20.

Breitbach, Fritz, assignor to Carl Still Gesellschaft mit beschränkter Haftung, Recklinghausen, Germany. Coke oven. 2,162,834; June 20.

Bressler, Robert E., assignor to Kol-Master Corporation, Oregon, Ill. Stoker mechanism. 2,163,370; June 20.

Breth, Maximilian, Ozone Park, N. Y. End gripper for cloth laying machines. 2,162,879; June 20.

Bringe, Walter A., New Hartford, N. Y. Tunable reed for accordions. 2,162,835; June 20.

Brinker, Emmett L., and H. J. Gray, Los Angeles, assignors of thirty per cent to A. W. Knight, South Pasadena, Calif. Apparatus for recovering metals and other substances from aqueous liquids. 2,162,909; June 20.

British Insulated Cables, Limited. (See Richards, S. H., and (Clemens, assignor).)

Bronander, Wilhelm B., Montclair, N. J. Wrapping machine. 2,162,773; June 20.

Bronstein, Dave, et al. (See Raines, Eugene, assignor.)

Brown and Sharpe Manufacturing Company. (See Abrams, Allan C., assignor.)

Brown and Sharpe Manufacturing Company. (See Maglott, George F., assignor.)

Brown, Banks D., assignor to Capstan Glass Company, Connellsville, Pa. Package and part thereof. 2,162,880; June 20.

Brown, Jesse E., Chicago, Ill. Cathode ray tube. 2,163,233; June 20.

Brown, Morris C., Detroit, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo. Stove device for automatic choke carburetors. 2,162,934; June 20.

Bruington, George H., Santa Fe, N. Mex. Button operated combination lock. 2,162,995; June 20.

Brunke, Fritz, Berlin-Steglitz, and W. Koch, Berlin-Glienicke-Nord, Germany, assignors to General Electric Company. Selenium rectifier having light metal carrier electrodes. 2,163,393; June 20.

Buggie, H. H., & Company. (See Cook, Everett J., assignor.)

Buhler, Gebrüder. (See Roth, Ernst, assignor.)

Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Wheel. 2,162,696; June 20.

Burke, Hugh E., and C. J. Frey, Baltimore, and R. B. Gray, Dundalk, Md., assignors to The G. L. Martin Company. Method and apparatus for the melting of metals. 2,163,508; June 20.

Burkhardt, Wilhelm, Berlin-Grunewald, and R. Reinecke, Berlin-Lankwitz, assignors to B. Berghaus, Berlin-Lankwitz, Germany. Metallization by cathode disintegration. 2,163,480; June 20.

Burkholder, Alden H. (See Knebusch, W. F., and Burkholder.)

Burnside, James H., 2d, assignor, by mesne assignments, to Circuit Breakers, Inc., New York, N. Y. Circuit breaker. 2,162,935; June 20.

Burrell, Harry, Bloomfield, N. J., assignor to Ellis-Foster Company. Recovering gold from solutions. 2,162,936; June 20.

Bush, Eugene S., assignor to Bush Manufacturing Company, St. Louis, Mo. Clutch control means. 2,163,021; June 20.

Bush Manufacturing Company. (See Bush, Eugene S., assignor.)

Bushman-Moore Incorporated. (See Moore, Harold H., assignor.)

Byers, Land S., Glendale, Calif., assignor to Molex Explosives, Ltd., Manila, P. I. Explosive. 2,162,910; June 20.

Caldwell, Lyle, Los Angeles, Calif. Preparing a decolorizing material. 2,163,525; June 20.

Caldwell, Lyle, Los Angeles, Calif. Preparing a synthetic decolorizing composition. 2,163,526; June 20.

Caldwell, Lyle, Los Angeles, Calif. Preparing a decolorizing material and of decolorizing liquids therewith. 2,163,527; June 20.

Calico Printers' Association Limited. (See Lantz, L. A. and Miller, assignors.)

California Container Corporation. (See Evans, W., and Knaggs, assignors.)

California Spray-Chemical Corporation. (See Parker, William B., assignor.)

Calliera, Giuseppe. (See Gallo, G., Bassi, Giovanni B., F., and L., and Calliera.)

Cameron, Peter, Kelvinside, Glasgow, Scotland. Aircraft having rotative sustaining means. 2,163,481; June 20.

Cameron, Peter, Kelvinside, Glasgow, Scotland. Aircraft having rotative sustaining means. 2,163,482; June 20.

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Lubricating system for rotary brake valves. 2,163,189; June 20.

Campbell, Donald J., Spring Lake Township, Ottawa County, assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich. Producing vehicle wheels. 2,163,022; June 20.

Campbell, Wyant & Cannon Foundry Company. (See Campbell, Donald J., assignor.)

Candee, Allan H., and G. O. Richmond, assignors to Gleason Works, Rochester, N. Y. Dressing mechanism for grinding wheels. 2,162,836; June 20.

Cantrell, Robert H., Birmingham, Ala. and L. Rumford, 2d, Wilmington, Del.; said Rumford assignor to United States Steel Corporation. Temperature regulating means for metallurgical furnaces. 2,163,510; June 20.

Capstan Glass Company. (See Brown, Banks D., assignor.)

Caramanico, Nicola, Philadelphia, Pa. Garden rake. 2,163,421; June 20.

Carbide and Carbon Chemicals Corporation. (See Eversole, J. F., and Rehm, assignors.)

Cardillo, Clemente, Utica, N. Y. Bracket. 2,163,511; June 20.

Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)

Carlisle, Charles J., Coldwater, Mich. Float. 2,163,483; June 20.

Carlson, Oscar A., and L. Pratt, Detroit, Mich. Time controlled selector apparatus for radio receivers. 2,163,190; June 20.

Carothers, Wallace H., Arden, and J. W. Hill, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making cyclic esters. 2,163,268; June 20.

Carrier Corporation. (See Noble, Milner, assignor.)

Carter Carburetor Corporation. (See Brown, Morris C., assignor.)

Carter, Philip M., White Plains, and L. A. Larsen, Brooklyn, N. Y., assignors to Vaco Products, Inc. Automotive vehicle transmission. 2,162,937; June 20.

Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Automatic frequency control. 2,163,234; June 20.

Castetter, Ernest A., Anderson, Ind. Ice creeper. 2,163,512; June 20.

Castner, James B., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing sulphuric acid. 2,163,371; June 20.

Cavallaro, Joseph, Atco, N. J. Washing machine attachment. 2,163,191; June 20.

Cavanaugh, Doris H., Newton, Mass. Machine-knit fabric. 2,162,837; June 20.

Celanese Corporation of America. (See Dreyfus, H., Moncrieff, and Hill, assignors.)

Certain-Feed Products Corporation. (See Hagopian, Vahan, assignor.)

Ceskoslovenska Zbrojovka, a. s. (See Holek, Vaclav, assignor.)

Chafee, Earl W., New York, and H. Murtagh, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Bomb sight. 2,162,698; June 20.

Chafee, Earl W., New York, N. Y., and H. C. Van Auken, Bloomfield, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Bomb sight. 2,162,699; June 20.

Challenge Machinery Company, The. (See Lee, J. E., and Barney, assignors.)

Chalilet, Etienne, Paris, France. Electric heating plate. 2,163,457; June 20.

Chambon Corporation. (See Grupe, William F., assignor.)

Charles, Carl L., Winnetka, Ill., assignor to Gas Tool Patents Corporation. Spark timer for hammers. 2,163,336; June 20.

Chatham, Clyde L., Nutley, N. J. Electric cable. 2,163,235; June 20.

Chemical Construction Corporation. (See Barnes, Blakeslee, assignor.)

Chenicek, Joseph A., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of motor fuel. 2,163,269; June 20.

Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)

Chicago Telephone Supply Co. (See Schellenger, Newton C., assignor.)

Christensen, Carl W. (See Ralston, A. W., and Christensen.)

Christmas, John K., U. S. Army, Easton, Pa. Vehicle track chain. 2,162,700; June 20.

Chrysler Corporation. (See Lee, Roger K., assignor.)

Chrysler Corporation. (See McKechnie, I. C., and Pattison, assignors.)

Chrysler Corporation. (See Neracher, Carl A., assignor.)

Chrysler Corporation. (See Neracher, C. A., and Dunn, assignors.)

Chrysler Corporation. (See Patterson, Herbert F., assignor.)

Chrysler Corporation. (See Slack, Frederic W., assignor.)

Church, Walter L., Houston, Tex. Well screen. 2,162,799; June 20.

Church, Walter L., assignor of one-half to W. L. Pearce, Houston, Tex. Tubing control head. 2,163,422; June 20.

Cierpial, John I., Warren Township, St. Joseph County, Ind. Measuring instrument. 2,163,023; June 20.

Circuit Breakers, Inc. (See Burnside, James H., 2d, assignor.)

Clark, Arthur L., Wichita, Kans. Garage door hanger. 2,163,394; June 20.

Clark Equipment Company. (See Burger, Frederick W., assignor.)

Clark, George W., Timber Lake, S. Dak., assignor of one-fourth to J. O. Rostvedt, Bismarck, N. Dak. Wire tightener. 2,163,083; June 20.

Clark, Wallace, Indianapolis, Ind. Fuel feeding and distributing mechanism for internal combustion engines. 2,163,458; June 20.

Clasen, Howard W. (See MacDonald, Kenneth, assignor.)

Claxton, Edmund, and H. Paschke, assignors to Armstrong Cork Company, Lancaster, Pa. Forming duplexed webs. 2,163,372; June 20.

Clemens, Harry W., Lebanon, Pa. Comb. 2,163,084; June 20.

Clements, Waldo J. (See Richards, S. H., and Clements.)

Cleveland, Ephraim W., Berea, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock absorber. 2,163,459; June 20.

Cleveland Graphite Bronze Company, The. (See Palm, John V. O., assignor.)

Cleveland Pneumatic Tool Company, The. (See Cleveland, Ephraim W., assignor.)
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Television method and apparatus. 2,163,537; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Television apparatus. 2,163,538; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Motion picture film scanning. 2,163,539; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Method and apparatus for television scanning. 2,163,540; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Method of and apparatus for interlaced scanning. 2,163,541; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Synchronizing method and apparatus. 2,163,542; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Method and apparatus for scanning motion picture film. 2,163,543; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Film scanning apparatus and method. 2,163,544; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Apparatus and method for television transmission. 2,163,545; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Apparatus and methods for television reception. 2,163,546; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. Television scanning system. 2,163,547; June 20.
Clothier, Stewart L., Irvington, and H. C. Hogencamp, Maplewood, assignors to Kolorama Laboratories, Inc., Newark, N. J. System for television scanning. 2,163,548; June 20.
Clothier, Stewart L., East Orange, and H. C. Hogencamp, Irvington, assignors to Kolorama Laboratories, Inc., Newark, N. J. Light modulating cell and electrode therefor. 2,163,549; June 20.
Clothier, Stewart L., East Orange, and H. C. Hogencamp, Irvington, assignors to Kolorama Laboratories, Inc., Newark, N. J. Multiple cell light modulator. 2,163,550; June 20.
Clothier, Stewart L., East Orange, and H. C. Hogencamp, Irvington, assignors to Kolorama Laboratories, Inc., Newark, N. J. Kerr cell electrode. 2,163,551; June 20.
Coeterier, Frederik, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electron discharge device. 2,163,270; June 20.
Cohen, Berry, et al. (See Raines, Eugene, assignor.)
Cole, Amos N., and A. L. Tannehill, Gary, Ind. Purification of gases. 2,162,838; June 20.
Coleman, Harry C., and C. Lynn, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Parallel operation of marine generators. 2,163,140; June 20.
Collier, Robert T., Hillsborough, Calif. Badminton bird. 2,163,236; June 20.
Collins, Arnod M. (See Starkweather, H. W., and Collins.)
Colonial Broach Company. (See Hart, William A., assignor.)
Colonial Press, Inc., The. (See Fine, Byrd S., assignor.)
Colorado Fuel and Iron Corporation, The. (See Stuart, Kenneth B., assignor.)
Comstock, George F., and V. V. Efimoff, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Granular aluminum and making the same. 2,162,938; June 20.
Comstock, Gregory J., Fairfield, assignor to Handy & Harman, Bridgeport, Conn. Manufacture of articles from powdered metals. 2,162,701; June 20.
Congoleum-Nairn Inc. (See Spitzli, D. H., and Kennedy, assignors.)
Connecticut Clasp Company. (See Norton, Eugene E., assignor.)
Continental Motors Corporation. (See Jacoby, Enos R., assignor.)
Contraves A.-G. (See Fischer, Friedrich E., assignor.)
Control Instrument Company. (See Wadsworth, Leslie H., assignor.)
Cook, Everett J., assignor to H. H. Buggie & Company, Toledo, Ohio. Engraving apparatus. 2,163,271; June 20.
Coombs, James W., Chicago, Ill. File stoage structure. 2,163,484; June 20.
Cooper, William W., Harrisburg, Pa., assignor to Bethlehem Steel Company. Foundry mold. 2,163,373; June 20.
Cope, Albert C. (See Ford, F. P., Cope, and Gough.)
Cornell-Dubilier Electric Corporation. (See Weiss, Felix, assignor.)
Corning Glass Works. (See Mattoon, Deo R., assignor.)
Corning Glass Works. (See Smith, Rowland D., assignor.)
Corning Glass Works. (See Sullivan, Eugene C., assignor.)
Corning Glass Works. (See Winship, Edward J., assignor.)
Corrall, Herbert, St. Alban, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Apparatus for trimming and joining the ends of fabric pieces. 2,163,304; June 20.
Costigan, Laurence A., Philadelphia, Pa. Page tie-up slug. 2,163,024; June 20.
Cotterman, Frederick W., assignor of one-half to B. D. Apple, Dayton, Ohio. Vehicle transmission gearing. 2,163,192; June 20.
Coxe, Joseph A., Los Angeles, Calif. Reel. 2,162,774; June 20.
Crafts, Curtis S., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press. 2,163,374; June 20.
Crago, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Control circuit for electrical relays. 2,162,911; June 20.
Craver, Bates B., Waterbury, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Rubber sole. 2,162,912; June 20.
Crichton, Delma, New York, N. Y. Stocking protector. 2,163,423; June 20.
Crimmel, Alvie C., Hartford City, Ind. Method and apparatus for forming large mass glassware by gob dropping. 2,162,800; June 20.
Critchfield, Walter O., assignor to Shelby Salesbook Company, Shelby, Ohio. Manifolding appliance. 2,163,193; June 20.
Crockett, Louis A., Rockland, Maine. Apparatus for maintaining compass accuracy in marine installations. 2,162,939; June 20.
Crown Cork & Seal Company. (See Pearson, Thomas F., assignor.)
Crucible Steel Company of America. (See Payson, P., Bergen, and Hodapp, assignors.)
Cupery, Martin E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Flameproofed cellulosic materials. 2,163,085; June 20.
Curreri, Michael, Plainfield, N. J. Sewing machine work guide attachment. 2,163,086; June 20.
Cyclone Seeder Co. Inc., The. (See Speicher, P. J., and Stark, assignors.)
Dahl, Magnus G., West Hartford, assignor to The Arrow-Hart & Hegemen Electric Company, Hartford, Conn. Fuse block. 2,163,460; June 20.
Dall, Edward D., North Chicago, Ill., assignor to W. F. Wright, Shaker Heights, Cleveland, Ohio. Lock mechanism. 2,162,702; June 20.
Dall, Edward D., Waukegan, Ill., assignor to W. F. Wright, Shaker Heights, Cleveland, Ohio. Automobile door locking system and mechanism. 2,162,703; June 20.
Dall, Edward D., North Chicago, Ill., assignor to W. F. Wright, Shaker Heights, Cleveland, Ohio. Lock mechanism. 2,162,704; June 20.
Dalrymple, Ferdinand H., Bedford, Ohio. Shaft collar. 2,163,315; June 20.
Darlington, George W., San Pedro, Calif. Sealed can with attached opener. 2,162,801; June 20.
Davis, Garland H. B. (See Wasson, J. L., and Davis.)
Davis, Marshal E., Bloomfield, Ind. Fountain pump. 2,163,194; June 20.
Dawsey, Lynn H., Wooster, Ohio. Making hydrogen peroxide. 2,162,996; June 20.
Dear, George W., and R. L. Thompson, Troup, Tex. Garment hanger. 2,163,485; June 20.
De Boer, Jan H., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Mechanical recording. 2,163,087; June 20.
De Florez, Luis, assignor to National Aviation Research Corporation, New York, N. Y. Directional indication and control. 2,162,940; June 20.
De la Garza, Carlota, assignor to Halgar, Inc., Chicago, Ill. Permanent hair waver. 2,163,375; June 20.
De Laval Steam Turbine Company. (See Peterson, Arvid, assignor.)
De Long, Walter, Southgate, Calif. Welder handle. 2,163,486; June 20.
Dempster, George R., Knoxville, Tenn. Transporting and dumping vehicle. 2,162,839; June 20.
Denney, Courtlandt F., Westfield, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Fluid heater. 2,162,941; June 20.
Densham, Alec B., assignor to The Gas Light and Coke Company, Westminster, London, England. Catalytic ignition device for gas burners. 2,163,395; June 20.
Derman, Harry, Laurelton, Long Island, N. Y. Luggage. 2,163,116; June 20.
De Rohden, Charles, Neuilly-sur-Seine, France. Preparation of magnesium by the electrolysis of its fused chloride. 2,162,942; June 20.
Deschere, Harvey, New York, assignor to J. B. Beaty, Rye, N. Y. Illumination. 2,163,272; June 20.

Deschere, Harvey, New York, assignor to J. B. Beaty, Rye, N. Y. Illumination. 2,163,273; June 20.
Detrick, M. H., Company. (See Pollen, Charles F., assignor.)
Detroit Hydrostatic Brake Corporation. (See Sauzedde, Claude, assignor.)
Deutsche Gold und Silber Scheide-Anstalt, vormals Roessler. (See Weiss, Ludwig, assignor.)
Deutsche Hydrierwerke Aktiengesellschaft. (See Schrauth, Walther, assignor.)
Deutsche Hydrierwerke Aktiengesellschaft. (See Stickdorn, K., and Hueter, assignors.)
Deutsche Waffen- und Munitionsfabricken, Aktiengesellschaft. (See Scholz, Erich, assignor.)
Dick, Burns. (See See Boldt, W. F., and Dick.)
Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake actuating mechanism. 2,162,775; June 20.
Dickinson, James L. (See Levinson, A. A., and Dickinson.)
Diehl, Walter S., U. S. Navy. Hull spray reducing construction. 2,162,705; June 20.
Dittmar, Harry R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerizing acrylic and alkacrylic compounds. 2,163,305; June 20.
Dixon, John G., assignor to Otho D. Beall, Chicago, Ill. Sheet separator and feeder. 2,163,274; June 20.
Dobkowitz, Bernhard K., San Francisco, Calif. Backhand pencil pointer. 2,163,025; June 20.
Dodds, Nugent, Washington, D. C. Copy holder. 2,162,706; June 20.
Dollson, Dewey H., Mt. Vernon, and W. R. Kromer, assignors to Oil Heating Devices, Inc., Cleveland, Ohio. Beverage dispenser. 2,162,842; June 20.
Doran Brothers, Inc. (See Schultze, Paul, assignor.)
Doran, John C. (See Schultze, Paul, assignor.)
Dorman, Morris, Baltimore, Md. Traveling rotary die. 2,163,487; June 20.
Döttl, Karl. (See Ripke, O., and Döttl.)
Douglass, Alfred E. assignor to Fuller Company, Catasauqua, Pa. Production and cooling of cement clinker. 2,163,513; June 20.
Drake, Harcourt C., Hempstead, assignor to Sperry Products, Inc., Brooklyn, N. Y. Rail flaw detector mechanism. 2,163,424; June 20.
Draper Corporation. (See Herring, Frank D., assignor.)
Drewsen, Pierre, Sandusky, Ohio, assignor to The Barrett Company, New York, N. Y. Felt making. 2,162,943; June 20.
Dreyfus, Henry, London, R. W. Moncrieff, and F. B. Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of organic materials. 2,162,881; June 20.
Dr. Ing. h. c. F. Porsche, K.-G. (See Porsche, Ferdinand, assignor.)
Du Bois, Virgil L., Tulsa, Okla. Valve. 2,162,840; June 20.
Duevel, Charles O., Jr. (See Payson, A. H., and Duevel.)
Dufault, Homer D., Easthampton, assignor to Holyoke Heater Co., Holyoke, Mass. Heating unit. 2,163,552; June 20.
Dummer, Edward J., and A. Gay, assignors to Multipost Company, Rochester, N. Y. Envelope opening machine. 2,163,026; June 20.
Du Mont, Allen B., Laboratories, Inc. (See Du Mont, Allen B., assignor.)
Du Mont, Allen B., assignor to Allen B. Du Mont Laboratories, Inc., Upper Montclair, N. J. Cathode ray tube. 2,163,256; June 20.
Duncan, William M., Jr., Shaker Heights, Ohio. Seal. 2,163,488; June 20.
Dunford, Ernest, assignor to Landis Machine Company, St. Louis, Mo. Edge trimmer. 2,162,944; June 20.
Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Thread cores. 2,162,841; June 20.
Dunn, William T. (See Neracher, C. A., and Dunn.)
Duplex Printing Press Company. (See Blackley, James L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Carothers, W. H., and Hill, assignors.)
Du Pont, E. I., de Nemours & Company. (See Castner, James B., assignor.)
Du Pont, E. I., de Nemours & Company. (See Cupery, Martin E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dittmar, Harry R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lazier, Wilbur A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Maxwell, Robert W., assignor.)
Du Pont, E. I., de Nemours and Company. (See Miller, C. O., and Roberts, assignors.)
Du Pont, E. I., de Nemours & Company. (See Salzberg, Paul L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Spanagel, Edgar W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Starkweather, H. W., and Collins, assignors.)
Du Pont, E. I., de Nemours & Company. (See Sullivan, Roy W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wuethrich, Adolph G., assignor.)
Durite Plastics, Incorporated. (See Novotny, Emil E., assignor.)
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, New York, N. Y. Railway car body bolster. 2,162,997; June 20.
Ebner, Alfred J., Elmhurst, Ill. Gas-washing apparatus. 2,163,141; June 20.
Ecrement, Glenn L. (See Magruder, W. D., and Ecrement.)
Edelmann Gesellschaft m. b. H. (See Terres, E., Saegebarth, Moos, and Ramser, assignors.)
Edison, Thomas A., Incorporated. (See Somers, Richard M., assignor.)
Educational Laboratories, Inc. (See Taylor, Carl C., assignor.)
Edwards, Paul G., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Mechanical relay. 2,163,195; June 20.
Efimoff, Viatcheslav V. (See Comstock, G. F., and Efimoff.)
Eichholz, William. (See Leutwiler, R. W., and Eichholz.)
Eldco, Inc. (See Hokanson, Martin, assignor.)
Elsenman, Louis, Brooklyn, N. Y. Hair curler. 2,163,226; June 20.
Electric Steel Foundry Company. (See Richmond, Harry H., assignor.)
Electro-Mechanical Research, Inc. (See Sziklai, George K., assignor.)
Electro-Motive Manufacturing Co. (See Flanzer, Joseph A., assignor.)
Electronics Supply Corp. (See Stringer, Louis C., assignor.)
Ellis-Foster Company. (See Burrell, Harry, assignor.)
Emerson, John, Irvington, N. J. Grinding device. 2,163,425; June 20.
Engel, Karl, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine and method. 2,162,802; June 20.
England, Basil H., Southsea, England. Fluid clutch and turbo-torque converter. 2,162,803; June 20.
Eppinger, Louis J. (See Gehr, John R., assignor.)
Erickson, Vernon W., Grand Coulee, Wash. Spring suspension. 2,162,843; June 20.
Eureka Products Corporation. (See Lautz, James J., assignor.)
Evans, Gordon M., Detroit, Mich. Mechanical refrigerator. 2,162,945; June 20.
Evans, Wil, and A. F. Knaggs, Oakland, assignors to California Container Corporation, Emeryville, Calif. Tray. 2,163,117; June 20.
Eversole, James F., and C. W. Rehm, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Hydrating olefines in the presence of heteropoly compounds. 2,162,913; June 20.
Extractol Process, Ltd. (See Bonotto, Michele, assignor.)
Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Slack adjuster. 2,163,396; June 20.
Farnham, Ivan R., and R. J. Jauch, assignors, by mesne assignments, to The Wayne Pump Company, Fort Wayne, Ind. Pointer setting mechanism. 2,163,376; June 20.
Farnham, Paul O., Mountain Lakes, N. J., assignor to Radio Corporation of America. Receiver percentage modulation control circuit. 2,162,882; June 20.
Farnum, Loring N., Pelham, N. Y. Shower bath. 2,162,804; June 20.
Farr, Fred D., Mamaroneck, assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Rack for magazines and the like. 2,163,027; June 20.
Farr, Morrill N., assignor to Temperatair Incorporated, Los Angeles, Calif. Air conditioning apparatus. 2,162,805; June 20.
Farren, Pattie H., Walla Walla, Wash. Torque controlled clutch. 2,163,514; June 20.
Fay, Clifford E., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency changer. 2,162,806; June 20.
Feather, David C., assignor to N. and F. Corporation, Portland, Oreg. Pencil holder. 2,162,914; June 20.
Fejmert, Erik V. C., Nykoping, Sweden. Apparatus for making hollow bodies of plastic material. 2,163,118; June 20.
Fend, Kurt, Pforzheim, Germany. Interchangeable lead pencil. 2,163,515; June 20.
Findlater, Stevenson, McKeesport, Pa., assignor to National Tube Company. Indicator. 2,163,196; June 20.
Fine, Byrd S., assignor to The Colonial Press, Inc., Clinton, Mass. Type composing and casting machine. 2,163,390; June 20.
Finnigan, Charles W. (See Foster, D. E., and Finnigan.)
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint material. 2,163,553; June 20.
Fischer, Friedrich E., Erlenbach, Switzerland, assignor to the firm Contraves A.-G., Zurich. Apparatus for measuring errors of aiming and firing in practice firing against moving targets. 2,162,707; June 20.
Fisher, Clayton F. (See Blount, W. H., and Fisher.)
Fisher, Gene. (See Striemer, B. P., and Fisher.)

Fisher, Harry C., and J. F. Thompson, Cincinnati, assignors to The Gardner-Richardson Company, Middletown, Ohio. Method and apparatus for making containers. 2,163,316; June 20.
Fisher, Solomon, Chicago, Ill. Display device. 2,162,998; June 20.
Fitzgerald, Patrick J., Prescott, Ariz. Chimney cowl. 2,163,197; June 20.
Flanzer, Joseph A., Laurelton, Long Island, assignor to Electro-Motive Manufacturing Co., Inc., New York, N. Y. Electrical condenser. 2,163,237; June 20.
Flexible Steel Lacing Company. (See Olsen, John C., assignor.)
Flipo, Joseph. (See Pennel, J., and Flipo.)
Flock, Bernard J., and E. F. Nelson, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,163,275; June 20.
Fluitkote Company, The. (See Gabriel, L. G., and Blott, assignors.)
Food Machinery Corporation. (See Jones, L. E., and Smith, assignors.)
Ford, Frederick P., Cheddar, Somerset, A. C. Cope, Winscombe, Somerset, and A. G. H. Gough, Tweentown, Cheddar, Somerset, England. Means or device for protecting the hoofs of animals. 2,163,361; June 20.
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Automatic frequency control system. 2,162,883; June 20.
Foster, Dudley E., South Orange, N. J., and C. W. Finnigan, Forest Hills, Long Island, N. Y., assignors to Radio Corporation of America. Superheterodyne receiver. 2,162,884; June 20.
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Automatic frequency control receiver. 2,162,885; June 20.
Foster, Walter W., Wichita Falls, Tex. Clutch actuating device. 2,163,028; June 20.
Foster Wheeler Corporation. (See Denney, Courtlandt F., assignor.)
Frank, Emil, Cincinnati, Ohio. Dispensing container closure. 2,162,999; June 20.
Frazier, Aldus H., Pittsburgh, Pa. Concealable stair. 2,163,142; June 20.
Freeland, Orville F., North Muskegon, Mich., assignor to Anaconda Wire & Cable Company, New York, N. Y. Magnet wire. 2,163,119; June 20.
Frey, Christopher J. (See Burke, H. E., Frey, and Gray.)
Friberg, Bengt F., assignor to Laclede Steel Company, St. Louis, Mo. Dowel assembly for paving joints. 2,163,397; June 20.
Fridén, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Apparatus for and method of making thin metal containers. 2,162,776; June 20.
Fritz, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegrahie m. b. H., Berlin, Germany. Magnetron. 2,162,807; June 20.
Fritzsche, Rudolf, and A. Bauer, Berlin-Charlottenburg, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Apparatus for cleaning metallic articles. 2,163,276; June 20.
Fuller Company. (See Douglass, Alfred E., assignor.)
Fuller Company. (See Lenhart, Herbert S., assignor.)
Gabriel, Leonard G., and J. F. T. Blott, London, England, assignors, by mesne assignments, to The Flintkote Company, New York, N. Y. Bitumen dispersions and making same. 2,163,445; June 20.
Gage, Fred W., Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Processing motion picture film. 2,163,029; June 20.
Galther, Gant, Hopkinsville, Ky. Process for making elemental sulphur from ores and gases containing sulphur. 2,163,554; June 20.
Gallo, Giuseppe, G. B. F., and L. Bassi, and G. Calliera, Turin, Italy. Brake shoe. 2,163,143; June 20.
Gallup, John, Newark, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrode structure for television transmitting tubes. 2,162,808; June 20.
Gardner-Richardson Company, The. (See Fisher, H. C., and Thompson, assignors.)
Gardner-Richardson Company, The. (See Scusa, L., and Kilian, assignors.)
Gardner-Richardson Company, The. (See Swan, Joseph H., 3d, assignor.)
Gardner-Richardson Company, The. (See von Sydow, R. W., and Sooy, assignors.)
Garrison, Wilbert, New York, N. Y. Playing card. 2,162,946; June 20.
Gas Light and Coke Company, The. (See Densham, Alec B., assignor.)
Gas Tool Patents Corporation. (See Charles, Carl L., assignor.)
Gasoline Products Company. (See Gray, James W., assignor.)
Gassner, Sebastian. (See Kumetat, K., and Gassner.)
Gates Rubber Company, The. (See Nassimbene, Ernest, assignor.)
Gay, Azel. (See Dummer, E. J., and Gay.)
Gehr, John R., assignor to L. J. Eppinger, Detroit, Mich. Floating gear mounting. 2,163,030; June 20.
Genard, Joseph P., Fort Stevens, Oreg. Wrench. 2,162,708; June 20.
General Aniline Works, Inc. (See Suckfüll, Fritz, assignor.)
General Aniline Works, Inc. (See Thoma, E., and Seidenfaden, assignors.)
General Electric Company. (See Brunke, F., and Koch, assignors.)
General Electric Company. (See Hermann, Benjamin R., assignor.)
General Electric Company. (See Inman, George E., assignor.)
General Electric Company. (See Mead, Milton S., Jr., assignor.)
General Electric Company. (See Pulfrich, Hans, assignor.)
General Electric Company. (See Pulfrich, H., and Magner, assignors.)
General Electric Company. (See Sherwen, Joseph W., assignor.)
General Electric Company. (See Somerville, Gareth G., assignor.)
General Electric Company. (See Wiegand, Kurt, assignor.)
General Fuel Briquette Corporation. (See Zwoyer, E. B. A., and Stillman, assignors.)
General Mills, Inc. (See Graben, Clifford B., assignor.)
General Motors Corporation. (See Gill, Edwin R., Sr., assignor.)
General Motors Corporation. (See Phillippi, D. M., and Wilson, assignors.)
General Motors Corporation. (See Summers, Caleb E., assignor.)
General Motors Corporation. (See Wolfram, William S., assignor.)
General Steel Castings Corporation. (See Hallquist, E. G., and Sheehan, assignors.)
Gerkey, William M., Joplin, Mo. Follower for card files. 2,163,319; June 20.
Gerry, Dr. Carroll H. (See Sechrist, Paul A., assignor.)
Geyer, William O., and H. A. Heyn, Bloomfield, N. J., said Heyn assignor to said Geyer. Chemical apparatus. 2,163,555; June 20.
Gilbert, Proctor J. (See Ralston, H. D., and Gilbert.)
Gill, Edwin R., Sr., Yonkers, N. Y., assignor by mesne assignments to General Motors Corporation. Defrosting of refrigerators. 2,162,709; June 20.
Glazat, William. (See McMahon, T. A., Hierholzer, and Glazat.)
Glaze, Herbert L., South Pasadena, assignor to W. K. Booth, doing business as Equipment Engineering Company, Los Angeles, Calif. Pellet drier. 2,163,556; June 20.
Gleason, Charley L., North Arlington, N. J. Covering a cylinder roll. 2,162,947; June 20.
Gleason Works. (See Candee, A. H., and Richmond, assignors.)
Glidden Company, The. (See Levinson, A. A., and Dickinson, assignors.)
Globe Valve Corporation. (See Schultis, Charles F., assignor.)
Goalstone, Herman H., assignor to The National Store Fixture Company, Denver, Colo. Method and apparatus for refrigerating perishables. 2,163,031; June 20.
Goldstein, Alexander, Chicago, Ill. Calculating device. 2,163,032; June 20.
Goldstein, Morris, Pawtucket, R. I. Rug and filler therefor and producing the same. 2,163,337; June 20.
Gollmar, Herbert A., Union Township, Union County, N. J., assignor, by mesne assignments, to Koppers Company. Separation and purification of gaseous mixture. 2,163,169; June 20.
Goodhue, Lyle D., Berwyn, Md., and C. M. Smith, Washington, D. C.; Dedicated to the free use of the People in the territory of the United States. Sedimentation apparatus. 2,163,000; June 20.
Gosling, Edward P., and F. J. Bittermann, St. Louis, Mo. Fluid pressure clutch. 2,163,033; June 20.
Gosling, Edward P., and F. J. Bitterman, St. Louis, Mo. Fluid pressure brake. 2,163,034; June 20.
Goss Printing Press Company, The. (See Crafts, Curtis S., assignor.)
Gossard, Sarah L., San Diego, Calif. Body support for railroad coach cars. 2,163,198; June 20.
Gosselin, Eunice I., Raymond, N. H. Child's harness waist. 2,162,948; June 20.
Gough, Arthur G. H. (See Ford, F. P., Cope and Gough.)
Government of the United States, as represented by the Secretary of the Treasury. (See Hudson, C. S., and Richtmyer, assignors.)
Graben, Clifford B., assignor to General Mills, Inc., Minneapolis, Minn. Advertising display device. 2,162,915; June 20.
Grant, George F., Washington, D. C. Downspout cutting shears. 2,163,088; June 20.
Graver Tank & Mfg. Co. (See Wilkin, Lester A., assignor.)
Gray, Harvey J. (See Brinker, E. L., and Gray.)
Gray, James W., Summit, assignor to Gasoline Products Company, Inc., Newark, N. J. Conversion of hydrocarbon oil. 2,163,306; June 20.
Gray, Reid B. (See Burke, H. E., Frey and Gray.)
Gregory, Jesse H., Wheaton, Ill., assignor to American Rock Wool Corporation, Wabash, Ind. Bonded fibrous insulating material. 2,163,567; June 20.
Grieder & Cie. (See Silber, Hans, assignor.)
Groak, Irwin D., and F. B. Orr, Chicago, Ill. Purification of water and air in air conditioning. 2,162,809; June 20.

Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Protective device for electric circuits. 2,162,949; June 20.
Grothey, Ivan W., Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y. Circular knitting machine. 2,163,461; June 20.
Grupe, William F., Lyndhurst, assignor to Chambon Corporation, Garfield, N. J. Apparatus for effecting register of multiple operations. 2,163,035; June 20.
Guerrieri, Salvatore A., Mt. Vernon, N. Y. assignor to the Lummus Company. Cracking hydrocarbon gases and vapors. 2,163,170; June 20.
Guillow, Paul K. (See Wildon, Thomas D., assignor.)
Guinzburg, Roland H., Flushing, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Wearing apparel. 2,162,810; June 20.
Gunn, Ross, Washington, D. C. Apparatus and method for detecting defects in metallic objects. 2,162,710; June 20.
Guy and Murton, Incorporated. (See Guy, Frederick M., assignor.)
Guy, Frederick M., assignor to Guy and Murton, Incorporated, Detroit, Mich. Cotter pin. 2,162,811; June 20.
Haase, Wilbert W., Forest Park, assignor to Wilbert W. Haase Co., Forest Park, Ill. Sectional burial apparatus. 2,163,171; June 20.
Haase, Wilbert W., assignor to Wilbert W. Haase Co., Forest Park, Ill. Power operable burial device. 2,163,172; June 20.
Haase, Wilbert W., assignor to W. W. Haase Co., Forest Park, Ill. Universal burial device. 2,163,173; June 20.
Haase, Wilbert W., assignor to W. W. Haase Co., Forest Park, Ill. Power attachment for burial devices. 2,163,174; June 20.
Haase, Wilbert W., Co. (See Haase, Wilbert W., assignor.)
Hagerty, Richard H., Biscoe, Va. Cleat. 2,163,089; June 20.
Hagopian, Vahan, assignor to Certain-teed Products Corporation, New York, N. Y. Design producing tile. 2,162,777; June 20.
Hahn, Eugene, Brooklyn, N. Y. Soot blower. 2,163,489; June 20.
Halgar, Inc. (See de la Garza, Carlota, assignor.)
Hall, Henry L., Streatham, London, England. Sparking plug. 2,163,362; June 20.
Halliburton Oil Well Cementing Company. (See Owsley, W. D., and Seeber, assignors.)
Hallquist, Einar G., Wallingford, and W. M. Sheehan, Merion, Pa., assignors to General Steel Castings Corporation, Granite City, Ill. Railway vehicle. 2,163,257; June 20.
Haloid Company, The. (See Sabel, Edward R., assignor.)
Hamann, Karl, Krefeld-Uerdingen, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of polymer carboxylic acids and derivatives thereof. 2,163,238; June 20.
Hamberger, John. (See Schauer, Adolf, assignor.)
Hamberger, John, New York, N. Y. Tamperproof closure. 2,162,711; June 20.
Hamberger, John, Richmond Hill, N. Y. Container and closure therefor. 2,162,712; June 20.
Hamberger, John, Richmond Hill, and A. Schauer, Ridgewood, N. Y., said Schauer, assignor to said Hamburger. Tamperproof closure. 2,162,713; June 20.
Hamblin, Clyde M., Washington, D. C. Vibration dampening fitting. 2,162,714; June 20.
Hamlin, Marston L., Lynbrook, assignor to The Barrett Company, New York, N. Y. Surface covering. 2,162,886; June 20.
Hammond, Michael F., assignor of one-half to W. P. Morgan, Buffalo, N. Y. Sawing appliance. 2,163,320; June 20.
Hancock, William T., Long Beach, Calif. Refining cracked petroleum distillate. 2,162,715; June 20.
Hancock, William T., Long Beach, Calif. Refining cracked petroleum distillate. 2,162,716; June 20.
Hancock, William T., Long Beach, Calif. Refining cracked petroleum distillates. 2,162,717; June 20.
Handy & Harman. (See Comstock, Gregory J., assignor.)
Hannagen, Raymond W., Cardiff, Wales. Zinc sulphide as a ceramic opacifier. 2,163,516; June 20.
Henschel Flugzeng-Werke A. G. (See Oeckl, L., and Müller, assignors.)
Hanson, Harold H., assignor to The Shaler Company, Waupun, Wis. Vulcanizing equipment. 2,163,377; June 20.
Happe, Arthur H., assignor of one-half to H. A. Sperlich, Detroit, Mich. Electric heater. 2,163,036; June 20.
Harding, Hiram R., Baltimore, Md. Air conditioning unit. 2,163,239; June 20.
Hermann, Benjamin R., Lanesborough, Mass., assignor to General Electric Company. Electric switching device and mounting means therefor. 2,163,398; June 20.
Harris, Alfred S. (See Harrold, C. W., and Harris.)
Harris-Seybold-Potter Company. (See Harrold, C. W., and Harris, assignors.)
Harrison, Nealls C. (See Hill, T. E., and Harrison.)
Harrold, Charles W., University Heights, and A. S. Harris, Cleveland Heights, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio. Inker throw-off. 2,162,812; June 20.
Harroun, Ray W., Saginaw, and E. K. Zimmerman, Detroit, Mich., assignors to Aero-Style Corporation, Indianapolis, Ind. Wheel guard. 2,163,321; June 20.
Harry, Robert J., Alliance, Ohio, assignor to The Alliance Machine Company. Journal bearing lining. 2,163,090; June 20.
Hart, Arthur M., Lakewood, Ohio. Water heater. 2,163,199; June 20.
Hart, Barbara, San Francisco, Calif. Extension table for washbasins and the like. 2,162,887; June 20.
Hart, Stanley, Kensington, assignor to Tuttle & Bailey, Inc., New Britain, Conn. Latch and lock. 2,163,307; June 20.
Hart, William A., Detroit, Mich., assignor to Colonial Broach Company. Vertical broach. 2,162,813; June 20.
Hart, William A., Detroit, Mich., assignor to Colonial Broach Company. Horizontal broach. 2,162,814; June 20.
Hartmann, Julius, Irvington, N. J. Gear construction. 2,163,277; June 20.
Harton, J. Edney. (See Rominger, Herbert H., assignor.)
Hasche, Herbert H., Los Angeles, Calif. Leaf spring lubricator. 2,162,718; June 20.
Hay, Donald L., deceased, by M. K. Hay, executrix, Washington, D. C. Combination spring bellows control device. 2,162,719; June 20.
Hay, Matilda K., executrix. (See Hay, Donald L.)
Hayes, Charles T., assignor to James River Paper Products, Inc., Richmond, Va. Bag sealing machine. 2,163,278; June 20.
Hazeltine Corporation. (See Case, Nelson P., assignor.)
Heckman, Richard P., Chicago, Ill. Insert anchor. 2,163,446; June 20.
Heggie, James. (See Corrall, H., and Heggie.)
Hegwein, Georg, assignor to Junkers & Co. G. m. b. H., Dessau, Germany. Heater for generating boiling water. 2,162,950; June 20.
Heil Co., The. (See Thwaits, Frederick G., assignor.)
Heimann, Eberhard, Berlin-Schoneberg, Germany. Malt-enzyme extraction in beer making. 2,163,200; June 20.
Held, Benjamin, Brooklyn, and A. Shayne, New York, N. Y. Ski creeper. 2,162,888; June 20.
Held, Stanley S., assignor to Hillerich & Bradsby Co., Louisville, Ky. Adjustable weighting device for golf club heads. 2,163,091; June 20.
Henry, Albert R., Salina, and M. C. Wills, Topeka, Kans. Snow plow. 2,163,279; June 20.
Hercules Powder Company. (See Spellacy, John R., assignor.)
Herring, Frank D., Aragon, Ga., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple. 2,163,308; June 20.
Hess, Andrew C., Abilene, Kans. Oil baffle. 2,163,490; June 20.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Lubricating device for valve devices. 2,163,399; June 20.
Heyn, Hermann A. (See Geyer, W. O., and Heyn.)
Heywood, Vincent E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Manufacture of dry-sealing envelopes. 2,163,037; June 20.
Heywood, Vincent E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Manufacture of dry-sealing envelopes. 2,163,038; June 20.
Hibshman, Benjamin T., North Bergen, N. J. Merchandise dispensing device. 2,163,280; June 20.
Hierholzer, William. (See McMahon, T. A., Hierholzer, and Glazat.)
Higham, William W., assignor to Universal Cooler Corporation, Derolt, Mich. Evaporator. 2,163,175; June 20.
Hill, Frank B. (See Dreyfus, H., Monerieff, and Hill.)
Hill, Julian W. (See Carothers, W. H., and Hill.)
Hill, Thomas E., and N. C. Harrison, Kingston-upon-Hull, England. Apparatus for cleaning bottles, jars, or the like containers. 2,162,951; June 20.
Hillerich & Bradsby Co. (See Held, Stanley S., assignor.)
Hillier, Harold, assignor to G. & J. Weir, Limited, Cathcart, Glasgow, Scotland. Controlling feed water pumps. 2,163,281; June 20.
Hines, Garde J., Kansas City, Mo. Asphaltic sand rock composition and producing same. 2,162,720; June 20.
Hinricher, Gerhardt A., assignor to Reynolds Electric Company, Chicago, Ill. Tensioning device. 2,163,039; June 20.
Hintz, Paul, Marshall, Tex., and A. H. Schmidtke, assignors to St. Joseph Iron Works, St. Joseph, Mich. Basket cover fastener. 2,163,120; June 20.
Hobbs, Edward W., Pinner, England. Cinematograph apparatus. 2,163,092; June 20.
Hobbs Sales & Service Station, Inc. (See Minkow, Robert, assignor.)
Hochwalt, Carroll A. (See Ault, W. C., and Hochwalt.)
Hodapp, Walter L. (See Payson, P., Bergen, and Hodapp.)
Hofmann, Conrad, Leverkusen-I. G. Werk, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Device for filling pneumatic injection syringes. 2,163,240; June 20.
Hogencamp, Harold C. (See Clothier, S. L., and Hogencamp.)
Hogg, Francis, Wesleyville, Pa., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Locomotive tender. 2,163,426; June 20.
Hogg, Francis, Wesleyville, Pa., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Locomotive tender. 2,163,447; June 20.

Hokanson, Martin, assignor to Eldeo, Inc., Duluth, Minn. Refrigerator. 2,163,322; June 20.
Holek, Václav, assignor to Československá Zbrojovka, a. s., Brno, Brunn, Czechoslovakia. Firearm. 2,163,144; June 20.
Holmes, Henry H., assignor to Wildt and Company Limited, Leicester, England. Manufacture of circular knitted articles with pouches. 2,163,557; June 20.
Holran, John R., Chicago, and E. T. Lednum, Evanston, Ill. Torpedo. 2,163,462; June 20.
Holtzman, John, assignor of one-fourth to David Lampert, New York, N. Y. Door lock. 2,163,121; June 20.
Holyoke Heater Co. (See Dufault, Homer D., assignor.)
Hooker, Donald E., assignor to Raymond T. Moloney, Chicago, Ill. Ball rolling game obstacle. 2,163,122; June 20.
Hopkins, Glenn W., Paducah, Ky., assignor to McKee Button Company, Muscatine, Iowa. Button-cutting machine. 2,163,338; June 20.
Hormel, August, Hoboken, N. J., assignor to National-Standard Company. Sheet feeding machine. 2,162,889; June 20.
Horne, Harlan F., and E. R. Perry, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bearing material and bearing. 2,162,890; June 20.
Horvath, Alexander, Chicago, Ill. Artificial fish lure. 2,163,378; June 20.
Hotton, Percy W., Salisbury, Md. Transmission. 2,163,339; June 20.
Hovden, Knut, Monterey, Calif. Catching fish. 2,163,282; June 20.
Howard, Joseph O., assignor to Sail-Me Company, Inc., Chicago, Ill. Lamp shade. 2,163,427; June 20.
Howard, Wayne A. (See Bolinger, J. C., Howard, and Woolley.)
Howe, Earl E., Royal Oak, Mich. Hinge mechanism. 2,163,323; June 20.
Huber, Horace H., assignor to Charles A. Pipenhagen, Chicago, Ill. Method and apparatus for utilization of low grade fuel in internal combustion engines. 2,163,241; June 20.
Hudson, Claude S., Washington, D. C., and N. K. Richtmyer, Greene County, N. Y., assignors to the Government of the United States, as represented by the Secretary of the Treasury. Production of D-ribose from calcium D-altronate. 2,162,721; June 20.
Hueter, Richard. (See Stiekdorn, K., and Hueter.)
Hund, Walter J., and S. B. Thomas, Oakland, and D. B. Luten, Jr., Berkeley, assignors to Shell Development Company, San Francisco, Calif. Desulphurizing alkyl phenols. 2,163,227; June 20.
Hunt, Horace S. (See Stuart, H. W., and Hunt.)
Huse, John O. (See Berg, A. J., and Huse.)
Huse, Leon C., Laconia, N. H. Meat-tendering machine. 2,163,123; June 20.
Hygrade Sylvania Corporation. (See Miller, Carl F., assignor.)
Hygrade Sylvania Corporation. (See Thomas, Ralph B., assignor.)
Hyland, Daniel F., St. Louis, Mo. Orthopedics. 2,162,916; June 20.
I. G. Farbenindustrie Aktiengesellschaft. (See Hamann, Karl, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Keyssner, Ernst, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ufer, Hanns, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ulrich, H., Ploetz, and Bögemann, assignors.)
Illinois Engineering Company, The. (See Leutwiler, R. W., and Eichholz, assignors.)
Industrial Rayon Corporation. (See Kline, Hayden B., assignor.)
Industrial Rayon Corporation. (See Knebusch, W. F., and Burkholder, assignors.)
Inman, George E., Cleveland Heights, Ohio, assignor to General Electric Company. Enclosed arc lamp. 2,163,428; June 20.
Intertype Corporation. (See Bieber, Lynn W., assignor.)
Jack, Julius F. (See Schmidt, A. C., and Jack.)
Jackson City Bank and Trust Company, executor. (See Tomkins, Harold A.)
Jacoby, Enos R., Muskegon, assignor to Continental Motors Corporation, Detroit, Mich. Induction system for internal combustion engines. 2,163,040; June 20.
Jacobs, Rex C., Detroit, Mich. Automobile glare shield. 2,163,340; June 20.
James, Henry D. (See Rugg, W. S., and James.)
James Manufacturing Company. (See Markey, George T., assignor.)
James River Paper Products, Inc. (See Hayes, Charles T., assignor.)
Jardot, Albert. (See Shatto, A., and Jardot.)
Jauch, Robert J. (See Farnham, I. R., and Jauch.)
Jeffreys, Sidney T., and H. J. Petty, assignors to Photosculpture Limited, Newport, England. Photosculpture. 2,163,124; June 20.
Jeffreys, Sidney T., and H. J. Petty, assignors to Photosculpture Limited, Newport, England. Photosculpture. 2,163,125; June 20.
Jenkins, Henry A., Fayetteville, N. C. Display fixture. 2,163,093; June 20.
Jennings, Irving C., South Norwalk, Conn. Control mechanism for steam heating systems. 2,162,952; June 20.
Jenson, Kenneth S., assignor to American Gas Machine Company, Incorporated, Albert Lea, Minn. Oil pilot device. 2,162,844; June 20.
Johnson, David E., Rockford, Ill. Screw and making same. 2,162,891; June 20.
Johnson, Sixten I., College Point, assignor to Lily-Tulip Cup Corporation, New York, N. Y. Blank feeding device. 2,163,145; June 20.
Jones, Guy D., Portland, Oreg. Fishing spoon. 2,162,845; June 20.
Jones, Lloyd E., and H. L. Smith, Dunedin, Fla., assignors to Food Machinery Corporation, San Jose, Calif. Box press. 2,163,126; June 20.
Jones, William J., Forest Hills, N. Y., assignor to Talon, Inc. Garment. 2,162,697; June 20.
Jorling, Joseph H., Cincinnati, assignor to The McDonald Printing Company, Norwood, Ohio. Soap package. 2,163,228; June 20.
Joy, Joseph F., and C. P. Baldwin, Claremont, N. H., assignors to Sullivan Machinery Company. Mining machine. 2,162,722; June 20.
Joy, Joseph F., Marion, Ohio, assignor to Sullivan Machinery Company, Chicago, Ill. Coal cutting machine. 2,163,341; June 20.
Junkers & Co. G. m. b. H. (See Hegwein, Georg, assignor.)
K-D Manufacturing Company. (See Kulp, Harry W., assignor.)
K. D. S. Corporation. (See Klemm, Emil R., Jr., assignor.)
Kagan, William, St. Louis, Mo. Apparatus for magnetically cleaning cotton. 2,163,242; June 20.
Kahn, Milton, Long Island City, assignor to Novelart Mfg. Co., New York, N. Y. Envelope. 2,163,041; June 20.
Kahlerth, Carl W. (See Smaltz, J. C., and Kahlerth.)
Kalencik, Paul, New York, N. Y. Analyzer plug. 2,163,201; June 20.
Kambli, Eduard, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Indigold dyestuffs. 2,163,094; June 20.
Kaplan, Max, New York, and G. Rosenberg, New Rochelle, N. Y. Pocket case especially for ladies' compacts. 2,163,429; June 20.
Karnes, James C., Buffalo, N. Y. Sighting apparatus. 2,162,723; June 20.
Karpen, S., & Bros. (See Van Derveer, Clarence A., assignor.)
Kauffman, Clair S., York, Pa. Cooler. 2,163,491; June 20.
Kégresse, Adolphe, Paris, France. Hydraulic change gear device for automobile vehicles. 2,163,202; June 20.
Kégresse, Adolphe, Paris, France. Hydraulic supply of rotating systems. 2,163,203; June 20.
Kelly, Hugh W., Woodbridge, N. J. Track torpedo. 2,162,724; June 20.
Kelly, William M., Westfield, N. J. Upright printing press. 2,162,725; June 20.
Kelly, William M., Westfield, N. J. Sheet-handling machinery. 2,163,492; June 20.
Ken-Jon, Inc. (See Mayfield, Alfred C., assignor.)
Kennedy, Allen E., Utica, N. Y. Protective garment. 2,163,463; June 20.
Kennedy, Donald S., Longparish, England. Nonskid device. 2,163,493; June 20.
Kennedy, Reeves L. (See Spitzli, D. H., and Kennedy.)
Kenney, John A., Plainfield, N. J., assignor to The Barrett Company, New York, N. Y. Plastic composition. 2,163,243; June 20.
Kent, Raymond W., Newton Highlands, Mass. Manufacture of pile fabrics. 2,162,778; June 20.
Kestell, Thomas A. (See Pratt, J. W., and Kestell.)
Keyes-Davis Company, The. (See Barker, Wellington D., assignor.)
Keyssner, Ernst, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Making organic sulphides. 2,163,176; June 20.
Kilian, Rudolph. (See Sousa, L., and Kilian.)
Kimber, Ellwood W., Colmar, and P. P. McManus, assignors to John B. Stetson Company, Philadelphia, Pa. Hat brim curling method and apparatus. 2,163,379; June 20.
King, Frank A., Los Angeles, Calif. Fishing reel. 2,162,726; June 20.
King, Roderick V., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Siding control and signal for toy railroads. 2,163,430; June 20.
Kinkead, Fullerton S., Ridgefield Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Printing telegraph exchange system. 2,163,431; June 20.
Kircher, Reymond J., Asbury Gables, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal translating apparatus. 2,163,244; June 20.
Kirchner, Alfred M., South Hills, and H. E. Romine, Pittsburgh, Pa. Pickling. 2,162,846; June 20.
Klein, Hermann. (See Binder, R., and Klein.)

Kleinert, I. B., Rubber Company. (See Guinzburg, Roland H., assignor.)
Kleinschmidt, Hans E., Berlin, Germany. Machine for marking leather and the like. 2,163,494; June 20.
Klemm, Emil R., Jr., assignor to K. D. S. Corporation, Chicago, Ill. Container closure. 2,163,042; June 20.
Kline, Hayden B., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Process of and apparatus for drying thread or the like. 2,162,727; June 20.
Knaggs, Albert F. (See Evans, W., and Knaggs.)
Knebel, Oscar, Fairfield, assignor to Daniel J. Williams, Bridgeport, Conn. Making die units and component parts thereof. 2,163,229; June 20.
Knebusch, Walter F., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Manufacture of thread or the like. 2,162,728; June 20.
Knight, A. W. (See Brinker, E. L., and Gray, assignors.)
Knight, Frank L., Twin Falls, Idaho, assignor to Sutton, Steele & Steele, Inc., Dallas, Tex. Pneumatic separator, cleaner, concentrating table, or the like. 2,163,342; June 20.
Koch, Werner. (See Brunke, F., and Koch.)
Koechling, Charles D., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,162,892; June 20.
Kohle-und Eisenforschung G. m. b. H. (See Püngel, Wilhelm, assignor.)
Kol-Master Corporation. (See Bressler, Robert E., assignor.)
Kolorama Laboratories, Inc. (See Clothier, S. L., and Hogencamp.)
Komorous, Joseph, Riverside, assignor to Parisian Novelty Company, Chicago, Ill. Hand mirror. 2,163,001; June 20.
Kopp, Edward C., Fort Worth, Tex. Oil and gas separator. 2,163,095; June 20.
Koppers Company. (See Becker, Joseph, assignor.)
Koppers Company. (See Gollmar, Herbert A., assignor.)
Koppers Company. (See Linder, Willy, assignor.)
Korver, Cornelis, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Flash lamp. 2,162,847; June 20.
Kostamo, John A., New York, N. Y. Filter for tobacco smoking pipes, cigarette and cigar holders. 2,163,432; June 20.
Kritchevsky, Wolf, assignor to Rit Products Corporation, Chicago, Ill. Hair dyeing composition and method. 2,163,043; June 20.
Kromer, Wallace R. (See Dolison, D. H., and Kromer.)
Krueger, Edwin W., River Forest, Ill. Securing wires together. 2,162,815; June 20.
Kucher, Andrew A., Dayton, Ohio. Musical system. 2,163,096; June 20.
Kuhl, Paul E., Madison, N. J., assignor to Standard Oil Development Company. Catalyst regeneration. 2,162,893; June 20.
Kulp, Harry W., assignor to K-D Manufacturing Company, Lancaster, Pa. Sawing machine. 2,162,848; June 20.
Kumetat, Karl, Wolfen, Bitterfeld, and S. Gassner, Leverkusen, near Cologne, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Taurides. 2,163,146; June 20.
Kuntke, Alfred. (See Bouwers, A., and Kuntke.)
Kupis, Stanley, Oakland, Calif. Wrench. 2,163,283; June 20.
Laclede-Christy Clay Products Company. (See McKelvey, J. H. and Rogers, assignors.)
Laclede-Christy Clay Products Company. (See Wuelker, Frank S., assignor.)
Laclede Steel Company. (See Friberg, Bengt F., assignor.)
Laclede Steel Company. (See Young, L., and Boyle, assignors.)
Lampert, David. (See Holtzman, John, assignor.)
Landis, Howard E., Detroit, Mich. Locking device. 2,162,849; June 20.
Landis Machine Company. (See Dunford, Ernest, assignor.)
Langner, Heinrich, Berlin-Steglitz, assignor to Telephon-Apparat Fabrik E. Zwietusch and Company, Berlin, Germany. Telephone pay station. 2,163,002; June 20.
Lantz, Louis A., and W. S. Miller, assignors to The Calico Printers' Association Limited, Manchester, England. Dyeing and finishing of textile materials. 2,163,204; June 20.
La Plant-Choate Manufacturing Company. (See Austin, Ellsworth W., assignor.)
Larsen, Louis A. (See Carter, P. M., and Larsen.)
Lattin, Robert B., Cheshire, Conn., assignor to Rockbestos Products Corporation. Insulated electrical conductor. 2,162,953; June 20.
Lauck, Friedrich, Berlin-Spandau, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Direct current motor. 2,163,528; June 20.
Laucks, Samuel F., and C. F. Sioberg, assignors to York Safe and Lock Company, York, Pa. Vault. 2,163,044; June 20.
Laughlin, Kenneth C., Baton Rouge, La., assignor to Standard Oil Development Company. Treatment of solvent extracts. 2,163,245; June 20.
Lautz, James J., assignor to Eureka Products Corporation, O'Fallon, Ill. Top cover for kitchen ranges. 2,163,258; June 20.
Lavere, Carroll K., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Carton and blank therefor. 2,163,045; June 20.
Laystrom, Carl A. (See Barna, Joseph W., assignor.)
Lazier, Wilbur A., Wyckwood, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkyl cyclohexanones and producing same. 2,163,284; June 20.
Leavitt, Earl A. (See Leavitt, Leo B., and E. A.)
Leavitt, Leo B., and E. A., Chicago, Ill. Polishing pad package and preparing same. 2,163,046; June 20.
Lebedeff, Yurii E. (See Betterton, J. O., and Lebedeff.)
Leber, Alois, Wiener-Neustadt, Nieder-Oesterreisch, Austria. Optical light exposure meter. 2,163,205; June 20.
Lednum, Edmund T. (See Holran, J. R., and Lednum.)
Lee, James E., and F. Barney, assignors to The Challenge Machinery Company, Grand Haven, Mich. Proof press. 2,162,816; June 20.
Lee, Roger K., assignor to Chrysler Corporation, Highland Park, Mich. Engine. 2,162,817; June 20.
Leece-Neville Company, The. (See Stewart, Seymour F., assignor.)
Le Gloahec, Victor C. E., Rockland, Maine, assignor to Algin Corporation of America, New York, N. Y. Fixation of chlorophyllian colored matter. 2,163,147; June 20.
Leishman, Le Roy J., Los Angeles, Calif. Turning control shafts to predetermined angular positions. 2,163,343; June 20.
Lems, Hendrik, and C. B. Los, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Mercury cathode discharge tube. 2,162,850; June 20.
Lenhart, Herbert S., Allentown, assignor to Fuller Company, Catasauqua, Pa. Conveying apparatus. 2,162,954; June 20.
Leutwiler, Richard W., Chicago, and William Eichholz, Cicero, assignors to The Illinois Engineering Company, Chicago, Ill. Pressure regulator. 2,162,779; June 20.
Levinson, Arthur A., Chicago, and J. L. Dickinson, Itasca, Ill., assignors to The Glidden Company, Cleveland, Ohio. Preparing feed material. 2,162,729; June 20.
Levy, Solomon M., assignor of two-fifths to L. W. Bettis, Los Angeles, Calif. Sun visor for automobiles. 2,163,495; June 20.
Liebman, Moses, New York, N. Y. Base cleaner. 2,162,955; June 20.
Lily-Tulip Cup Corporation. (See Johnson, Sixten I., assignor.)
Limpert, Alexander S., assignor to Mechana Kold Corporation, Bay Shore, N. Y. Sealing means for shafts of compressors and the like. 2,163,127; June 20.
Lincoln Engineering Company. (See Rotter, Lutwin C., assignor.)
Linder, Willy, Essen-Bredeney, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Slagging water-gas generator. 2,163,148; June 20.
Linder, Willy, Essen, Germany, assignor, by mesne assignments to Koppers Company, Pittsburgh, Pa. Regenerative gas heater with combustion shaft arranged outside the heater casing. 2,163,149; June 20.
Linderman Devices, Incorporated. (See Shaw, William C., assignor.)
Lister, William, Chicago, Ill. Rotary internal combustion engine. 2,162,851; June 20.
Lithoprint Company of New York, Inc. (See Riesenkönig, Herman F., assignor.)
Llewellyn, Don, Huntington Park, Calif. Centrifugal pump. 2,163,464; June 20.
Logan, John W., Jr., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control system for train circuits. 2,163,400; June 20.
Logan, Mason A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Method and apparatus for measuring nonlinear impedances. 2,162,894; June 20.
López, Leandro G., Habana, Cuba. Metal safety bar for doors. 2,163,206; June 20.
Los, Cornelis B. (See Lems, H., and Los.)
Loudenbeck, Harry C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety plug. 2,163,401; June 20.
Louisville Tin and Stove Company. (See Swearingen, George H., assignor.)
Ludington, Lawrence L., assignor to G. A. Ball, Muncie, Ind. Breaker reel. 2,162,780; June 20.
Lummus Company, The. (See Guerrieri, Salvator A., assignor.)
Luten, Daniel B., Jr. (See Hund, W. J., Thomas, and Luten.)
Luther Manufacturing Company. (See Messer, Peter J., assignor.)
Lynn, Clarence. (See Coleman, H. C., and Lynn.)
Lyon, George A., Allenhurst, N. J. Ornamental wheel disk structure. 2,162,730; June 20.
Lyon, George A., Allenhurst, N. J. Method of and apparatus for die-forming parts. 2,162,731; June 20.
Lyon, George A., Detroit, Mich. Ornamental beaded wheel disk. 2,162,732; June 20.
Lyon, George A., Detroit, Mich. Making a multipiece article. 2,162,733; June 20.
Lyon, George A., Detroit, Mich. Joining parts. 2,162,734; June 20.
Lyon, George A., Allenhurst, N. J. Making a wheel. 2,162,735; June 20.

Lyon, George A., Allenhurst, N. J. Ornamental wheel-disk structure. 2,162,736; June 20.
Lyon, George A., Detroit, Mich. Die-forming parts. 2,163,003; June 20.
Lyon, George A., Allenhurst, N. J. Wheel disk and mounting same. 2,163,004; June 20.
Lyon, George A., Allenhurst, N. J. Manufacturing sheet metal articles. 2,163,005; June 20.
Lysholm, Alf, assignor to Aktiebolaget Milo, Stockholm, Sweden. Aircraft power plant. 2,162,956; June 20.
Lysholm, Alf, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Elastic fluid turbine. 2,162,957; June 20.
MacDonald, Kenneth, assignor of one-half to H. W. Clasen, Syracuse, N. Y. Envelope. 2,162,958; June 20.
Mace, Arthur T., East Cleveland, assignor to The Radiart Corporation, Cleveland, Ohio. Antenna. 2,163,465; June 20.
MacGregor, Robert, Port-Glasgow, Scotland. Liquid brake and carrier for ships' rudders. 2,162,917; June 20.
MacKenzie, Wilbur L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. 2,162,781; June 20.
MacNeill, John B., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,163,558; June 20.
MacNeill, John B., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,163,559; June 20.
Madison, Louis, New York, N. Y. Collar clasp. 2,162,959; June 20.
Maglott, George F., Wrentham, Mass., assignor to Brown and Sharpe Manufacturing Company. Grinding machine. 2,163,246; June 20.
Magner, Richard. (See Pulfrich, H., and Magner.)
Magnusson, Knut J. (See Bedford, A. V., and Magnusson.)
Magruder, Walter D., and G. L. Ecrement, Canton, Ohio. Brick container. 2,163,097; June 20.
Major, Randolph T., Plainfield, and A. Waltl, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Production of stabilized crystalline proteolytic enzymes. 2,162,737; June 20.
Malaguti, Fred, Plymouth, Mass. Automobile reflector. 2,163,380; June 20.
Malhiot, Clarence J., Oak Park, assignor to F. B. Redington Co., Chicago, Ill. Wrapping machine unit. 2,163,047; June 20.
Marathon Paper Mills Company. (See McConnell, Palmer B., assignor.)
Marbon Corporation. (See Williams, Floyd E., assignor.)
Markel Electric Products, Inc. (See Oremus, George E., assignor.)
Markey, George T., assignor to James Manufacturing Company, Fort Atkinson, Wis. Incubator-hatcher. 2,163,363; June 20.
Markush, Eugene A., Jersey City, and J. Miller, Newark, N. J., assignors to Pharma Chemical Corporation, New York, N. Y. Color producing compound and producing the same. 2,162,960; June 20.
Marsan, Edward P., Chicago, Ill. Self-locking building block. 2,163,381; June 20.
Martin, Archworth, Pittsburgh, Pa. Method of and apparatus for forming fabric structures. 2,162,818; June 20.
Martin, Glenn L., Company, The. (See Burke, H. E., Frey, and Gray, assignors.)
Marvin, Stanley, Burlingame, assignor to B. E. Witkin, Oakland, Calif. Electric flatiron. 2,162,918; June 20.
Marx, Louis, & Company. (See King, Roderick V., assignor.)
Mason, Richard C., Tulsa, Okla. Measuring apparatus. 2,163,402; June 20.
Mason, Walden W. (See Raymond, G., and Mason.)
Massalski, Joseph J., Clinton, Mass. Support device. 2,163,098; June 20.
Massey, William B., Southampton, Midlothian District, Va. Container. 2,162,853; June 20.
Mastney, Edward J., Berwyn, assignor to Oak Manufacturing Company, Chicago, Ill. Electric switch. 2,162,895; June 20.
Mattoon, Dee R., assignor to Corning Glass Works, Corning, N. Y. Cooking utensil handle. 2,162,961; June 20.
Maxwell, Robert W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing N-methyl beta hydroxy ethylamines. 2,163,099; June 20.
Mayes, Alfred C., Walkerville, Ontario, Canada. Four wheel brake equalizing and control mechanism for vehicles. 2,162,852; June 20.
Mayfield, Alfred C., Largo, assignor to Ken-Jon, Inc., Orlando, Fla. Fertilizer distributor. 2,162,689; June 20.
McAuliffe, Patrick F., Sydney, New South Wales, and R. B. Randell, Armadale, Victoria, Australia. Device for displaying wearing apparel. 2,162,919; June 20.
McConnell, Palmer B., Appleton, assignor to Marathon Paper Mills Company, Rothschild, Wis. Coaster. 2,163,309; June 20.
McCoy, Clarence E., Florence, Ala. Extracting nicotine from tobacco. 2,162,738; June 20.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Force feed lubricator. 2,163,433; June 30.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Signaling device. 2,163,434; June 20.
McDonald Printing Company, The. (See Jorling, Joseph H., assignor.)
McGill, Clarence R., Andover, N. Y. Changeable sign. 2,163,128; June 20.
McGraw Electric Company. (See Sardeson, Robert, assignor.)
McKechnie, Ian C., Detroit, and R. A. Pattison, Warren, assignors to Chrysler Corporation, Highland Park, Mich. Tool. 2,162,819; June 20.
McKee Brothers Corporation. (See McKee, Glenn L., assignor.)
McKee Button Company. (See Hopkins, Glenn W., assignor.)
McKee, Glenn L., assignor to McKee Brothers Corporation, Bakersfield, Calif. Band clamp. 2,163,048; June 20.
McKelvey, John H., and J. W. Rogers, Kirkwood, Mo., assignors to Laclede-Christy Clay Products Company. Glass tank. 2,163,405; June 20.
McKiernan-Terry Corporation. (See Smaltz, J. C., and Kahlerth, assignors.)
McKittrick, Donald S., Oakland, assignor to Shell Development Company, San Francisco, Calif. Desulphurizing mineral oils. 2,162,963; June 20.
McMahon, Teaphel A., W. Hierholzer, and W. Glazat, Grand Haven, Mich. Barrel making machine. 2,163,344; June 20.
McMahon, Teaphel A., W. Hierholzer, and W. Glazat, Grand Haven, Mich. Crozing machine. 2,163,345; June 20.
McManus, Peter P. (See Kimber, E. W., and McManus.)
McNeill, Harry L., Denver, Colo. Classification. 2,163,285; June 20.
McNulty, John W. (See Tuley, C. B., and McNulty.)
Meacham, Larned A., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilized oscillator. 2,163,403; June 20.
Mead, Milton S., Jr., Schenectady, N. Y., assignor to General Electric Company. System for measuring vibrational energy. 2,163,404; June 20.
Mechana Kold Corporation. (See Limpert, Alexander S., assignor.)
Meissner, Herman A., Wellsville, assignor to Sinclair Refining Company, New York, N. Y. Oil refining apparatus. 2,163,150; June 20.
Mercedes Buromaschinen-Werke Aktiengesellschaft. (See Anschütz, Robert, assignor.)
Merck & Co. Inc. (See Major, R. T., and Waltl, assignors.)
Merrill, Ralph K., assignor to American Seating Company, Grand Rapids, Mich. Table or the like. 2,163,049; June 20.
Messer, Peter J., assignor to Luther Manufacturing Company, Inc., Olean, N. Y. Winch driving gear assembly. 2,162,962; June 20.
Metal Hydrides Inc. (See Alexander, Peter P., assignor.)
Meyer, Sidney K., Detroit, Mich. Device for indicating the undercover temperature in a bed. 2,163,050; June 20.
Middelboe, Kristian, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y. Nodulizing apparatus. 2,162,782; June 20.
Midland Steel Products Company, The. (See Smith, William E., assignor.)
Miller, Carl F., Emporium, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass. Electron discharge tube and the like. 2,163,310; June 20.
Miller, Clemmy O., and R. G. Roberts, Chicago, Ill., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of finely divided sodamide. 2,163,100; June 20.
Miller, Joseph L., Oak Park, assignor to Travler Radio & Television Corporation, Chicago, Ill. Signaling system. 2,163,051; June 20.
Miller, Julius. (See Markush, E. A., and Miller.)
Miller, William S. (See Lantz, L. A., and Miller.)
Mindek, John, Jr., Kent, Ohio. Folding fish spreader. 2,162,739; June 20.
Minkow, Robert, assignor to Hobbs Sales & Service Station, Inc., New York, N. Y. Gluing machine. 2,162,854; June 20.
Mirick, Carlos B., Washington, D. C. Film type rectifier. 2,162,740; June 20.
Missoten, Simon, Brussels, Belgium. Manufacture of porous building material. 2,163,207; June 20.
Mohawk Carpet Mills, Inc. (See Shuttleworth, Howard L., assignor.)
Molex Exposives, Ltd. (See Byers, Laud S., assignor.)
Molleson, Isabelle C., Baldwin, N. Y. Remover for "pyrex" dishes. 2,163,129; June 20.
Moloney, Raymond T. (See Hooker, Donald E., assignor.)
Moncrieff, Robert W. (See Dreyfus, H., Moncrieff, and Hill.)
Monsanto Chemical Company. (See Ault, W. C., and Horchwalt, assignors.)
Moody, Frank S., and L. R. Pauwels, Los Angeles, assignors to Paramount Watch Bond Manufacturing Company, Los Angeles County, Calif. Wrist watch and bracelet connection. 2,163,208; June 20.
Moore, Harold H., assignor to Bushman-Moore Incorporated, Cleveland, Ohio. Display background construction. 2,163,259; June 20.

Moos, Joseph. (See Terres, E., Saegebarth, Moos, and Ramser.)
Moran, Robert C. (See Berger, H. G., Moran, and Seger.)
Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co., Inc. Finding for a pin stem joint or catch and making the same. 2,162,820; June 20.
Morgan, William P. (See Hammond, Michael F., assignor.)
Moriarty, Wilson H., Shaker Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Grate bar. 2,162,741; June 20.
Morrison, Okey J., Charleston, W. Va. Road marker. 2,163,346; June 20.
Moseley, Edward H., Watertown, assignor to American Optical Company, Southbridge, Mass. Decorative means for receptacles and applying same. 2,163,151; June 20.
Motor Terminals, Inc. (See Norbom, Ragnar A., assignor.)
Moyer, Amos F., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Grass catching and distributing device. 2,162,783; June 20.
Multipost Company. (See Dummer, E. J., and Gay, assignor.)
Müller, Erhard. (See Oeckl, L., and Müller.)
Müller, Ferdinand C. H. (See Pilliod, T. J., and Müller.)
Munro, Allison G., New York, N. Y. Brick wall construction. 2,163,286; June 20.
Murdock Manufacturing & Supply Company, The. (See Bart, Thomas E., assignor.)
Murtagh, Hugh. (See Chafee, E. W., and Murtagh.)
N. and F. Corporation. (See Feather, David C., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Bouwers, A., and Kuntke, assignors.)
N. V. Philips' Gloeilampenfabrieken. (See Coeterier, Frederik, assignor.)
N. V. Philips' Gloeilampenfabrieken. (See de Boer, Jan H., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Korver, Cornelis, assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Lems, H., and Los, assignors.)
N. V. Philips' Gloeilampenfabrieken. (See Teves, M. C., and Penning, assignors.)
Nagin, Harry S., Pittsburgh, assignor to Reliance Steel Products Company. Rankin, Pa. Flooring construction. 2,162,742; June 20.
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nassimbene, Ernest, assignor to The Gates Rubber Company, Denver, Colo. Endless flexible belt. 2,163,347; June 20.
National Aviation Research Corporation. (See de Florez, Luis, assignor.)
National Lock Washer Company, The. (See Blessin, Siegfried E., assignor.)
National Malleable and Steel Castings Company. (See Moriarty, Wilson H., assignor.)
National-Standard Company. (See Hormel, August, assignor.)
National Store Fixture Company, The. (See Goalstone, Herman H., assignor.)
National Tube Company. (See Findlater, Stevenson, assignor.)
Nelson, Edwin F. (See Flock, B. J., and Nelson.)
Nelson, John H., Jr., Cadott, Wis. Sheet metal bending machine. 2,162,855; June 20.
Neracher, Carl A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Clutch. 2,162,784; June 20.
Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,162,785; June 20.
Netkowski, Alexander L., New York, N. Y. Arch supporter. 2,163,260; June 20.
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newton Brothers (Derby) Limited. (See Boddy, William H., assignor.)
Newton, Roy W., Collingwood, Victoria, Australia. Operating handle for doors, windows, and the like. 2,163,101; June 20.
New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
Nichols, Ralph G., St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y. Folding car step. 2,162,964; June 20.
Nieuli, Matti, Seattle, Wash. Explosive engine. 2,163,052; June 20.
Nisula, George, Edgewater, Wis. Pump. 2,163,287; June 20.
Nitsch, Joseph K., Syracuse, N. Y. Indexing work holder. 2,162,856; June 20.
Noble, Milner, assignor, by mesne assignments, to Carrier Corporation, Newark, N. J. Orifice construction. 2,163,382; June 20.
Norbom, Ragnar A., Clifton, N. J., assignor to Motor Terminals, Inc., Cleveland, Ohio. Valve. 2,162,743; June 20.
Norcross. (See Norcross, Arthur D., assignor.)
Norcross, Arthur D., assignor to Norcross, New York, N. Y. Cobweb cut-out. 2,162,896; June 20.
Nordberg Manufacturing Company. (See Baumgarten, Lawrence C., assignor.)
Norton, Charles E., assignor to Norton-McMurray Manufacturing Company, Chicago, Ill. Applying pipe joint clamps. 2,163,261; June 20.
Norton, Eugene E., assignor to Connecticut Clasp Company, Bridgeport, Conn. Garment clasp. 2,163,053; June 20.
Norton-McMurray Manufacturing Company. (See Norton, Charles E., assignor.)
Novak, Albert, New York, N. Y. Amusement device. 2,163,348; June 20.
Novelart Mfg. Co. (See Kahn, Milton, assignor.)
Novotny, Emil E., assignor, by mesne assignments, to Durite Plastics, Incorporated, Philadelphia, Pa. Apparatus for the manufacture of lamps and the like. 2,163,177; June 20.
Nyhagen, Barney R., New York, N. Y. Motor driven razor. 2,163,406; June 20.
Oak Manufacturing Company. (See Mastney, Edward J., assignor.)
Obergfell, Herbert F., River Forest, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone set. 2,163,006; June 20.
O'Dell, John W., Oildale, Calif. Sucker rod wiper. 2,163,007; June 20.
Odill, Henry, Norway, Mich. Hydroelectric power plant. 2,163,102; June 20.
Oeckl, Ludwig, Dessau, and Erhard Müller, Esslingen Neckar, assignors to the firm Henschel Flugzeug-Werke A. G., Schonefeld, Teltow, Germany. Press for the flawless deforming of flat blanks. 2,163,517; June 20.
Oeding, Anthony A., Ferguson, Mo. Decoy duck. 2,162,786; June 20.
Oil Heating Devices, Inc. (See Dolison, D. H., and Kromer, assignors.)
Oil Well Supply Company. (See Shiner, John M., assignor.)
Okey, Perry, assignor of one-half to E. R. Andrix, Columbus, Ohio. Refrigerating system. 2,163,054; June 20.
Olsen, Axel, Brooklyn, N. Y. Combination sofa, table, and chair. 2,163,349; June 20.
Olsen, John C., assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt lacing setting device. 2,162,787; June 20.
Olson, Waldemar N., Brookfield, assignor to Reynolds Electric Company, Chicago, Ill. Sign flashing device. 2,163,055; June 20.
Olvitt, Harry C., assignor to York Oil Burner Company, Inc., York, Pa. Air control for fluid fuel burners. 2,162,857; June 20.
Opatowski, Remo S., and P. Adamoli, Milan, Italy. Extraction of alkali hydrates or carbonates and of aluminum hydroxide from the double silicates of alkali and aluminum. 2,163,466; June 20.
Oremus, George E., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Hold-down clip for electric lighting fixtures. 2,163,350; June 20.
Orr, Fred B. (See Groak, I. D., and Orr.)
Osgood, Walter P., Malden, Mass. Top edge treating machine. 2,163,965; June 20.
Otis, Herbert C., Dallas, Tex. Well head. 2,163,178; June 20.
Otto, Franz, Neu-Finkenkrug, near Berlin, assignor to Steatit-Magnesia Aktiengesellschaft, Berlin, Germany. Variable inductance device. 2,163,448; June 20.
Ouellette, Charles R., Seattle, Wash. Adjustable measuring cup. 2,163,364; June 20.
Overmier, Emmons, La Grange, and T. E. Rodman, Glencoe, assignors, by mesne assignments, to Poor & Company, Chicago, Ill. Rail and wheel flange lubricator. 2,163,288; June 20.
Owendoff, Harold M., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifier. 2,162,744; June 20.
Owsley, William D., Duncan, Okla., and C. F. Seeber, Hutchinson, Kans., assignors to Halliburton Oil Well Cementing Company, Duncan, Okla. Treating a well. 2,163,449; June 20.
Ozburn, Floyd A., Los Angeles, Calif. Fish lure. 2,162,966; June 20.
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Palm, John V. O., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Clutch. 2,163,152; June 20.
Pankey, Clyde E., Jefferson City, Mo. Shoulder pad. 2,162,858; June 20.
Paramount Watch Band Manufacturing Company. (See Moody, F. S., and Pauwels, assignors.)
Parisian Novelty Company. (See Komorous, Joseph, assignor.)
Parker, William B., Placerville, assignor to California Spray-Chemical Corporation, Berkeley, Calif. Parasiticidal compositions. 2,163,560; June 20.
Parmenter, Walter H., St. Paul, Minn. Fishline bobber. 2,162,821; June 20.
Parsons, George C., New York, N. Y. Ship hull and constructing it. 2,162 822; June 20.
Paschke, Herbert. (See Claxton, E., and Paschke.)
Patent License Corporation. (See Arenberg, Albert L., assignor.)
Paterna Pescara, Raul, Paris, France, assignor to Société d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland. Thermic plant. 2,162,967; June 20.

Patterson, Herbert F., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,162,788; June 20.
Pattison, Russell A. (See McKechnie, I. C., and Pattison.)
Paul, Edward B., assignor to J. P. Stacey, Wyoming, Ohio. Coin sorting machine. 2,163,351; June 20.
Paul, Lawrence A., New York, N. Y. Inkwell. 2,162,920; June 20.
Pauwels, Leo R. (See Moody, F. S., and Pauwels.)
Payson, Arthur H., and C. O. Duevel, Jr., assignors to The American Thermos Bottle Company, Norwich, Conn. Vacuum bottle and support therefor. 2,163,056; June 20.
Payson, Arthur H., and C. O. Duevel, Jr., assignors to The American Thermos Bottle Company, Norwich, Conn. Vessel for mixing and cooling liquids. 2,163,057; June 20.
Payson, Peter, New York, N. Y., L. S. Bergen, Great Neck, N. Y., and W. L. Hodapp, East Orange, N. J., assignors to Crucible Steel Company of America, New York, N. Y. Chrome steel alloy valve element. 2,163,561; June 20.
Pearce, William L. (See Church, Walter L., assignor.)
Pearson, Thomas F., Pontefract, England, assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Forming machine for glass bottles, jars, and the like. 2,163,103; June 20.
Pelikan, John M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,162,859; June 20.
Pellow, Arthur, assignor to American Optical Company, Southbridge, Mass. Multifocal lens and making the same. 2,163,130; June 20.
Pennel, Jean, Roubaix, and J. Filpo, Croix, France. Sponge rubber coated fabric and manufacturing the same. 2,163,289; June 20.
Penning, Frans M. (See Teves, M. C., and Penning.)
People in the territory of the United States, The. (See Goodhue, L. D., and Smith.)
Peppler, Rudisell E. (See Snapp, Martha A., assignor.)
Perry, Eugene R. (See Horne, H. F., and Perry.)
Peterson, Arvid, assignor to De Laval Steam Turbine Company, Trenton, N. J. Compressor seal. 2,163,153; June 20.
Petty, Henry J. (See Jeffreys, S. T., and Petty.)
Pharma Chemical Corporation. (See Markush, E. A., and Miller, assignors.)
Phelps, Morton F., Little Rock, Ark. V-belt shifting means for cone pulleys. 2,162,968; June 20.
Philipp, Lawrence A., assignor, by mesne asignments, to Nash-Kelvinator Corporation, Detroit, Mich. Air conditioning system. 2,162,860; June 20.
Philipsen, Michael, Vedbaek, near Copenhagen, Denmark. Method and apparatus for determining the color of a liquid. 2,163,467; June 20.
Phillippi, Dale M., and J. E. Wilson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Apparatus for producing colloidal suspensions of metals. 2,162,823; June 20.
Phillips Petroleum Company. (See Schulze, Walter A., assignor.)
Phillips Petroleum Company. (See Youker, Malcolm P., assignor.)
Phipps, John T., Huntington Park, Calif., assignor to Roy F. Wolfgram. Swab. 2,163,058; June 20.
Photosculpture Limited. (See Jeffreys, S. T., and Petty, assignors.)
Pieth, Peter. (See Straub, F., and Pieth.)
Pilliod Cabinet Company, The. (See Pilliod, T. J., and Müller, assignors.)
Pilliod, Thomas J., and F. C. H. Müller, assignors to The Pilliod Cabinet Company, Swanton, Ohio. Display case. 2,163,008; June 20.
Pipenhagen, Charles A. (See Huber, Horace H., assignor.)
Plensler, Alexander W., assignor to Resistelite Corporation, Chicago, Ill. Resistance element for rheostats. 2,162,969; June 20.
Ploetz, Ernst. (See Ulrich, H., Ploetz, and Bögemann.)
Plötz, Feodor, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Permanet magnet dynamo-electric machine. 2,163,496; June 20.
Polak, Louis, Bethlehem, Pa. Finish for walls. 2,162,861; June 20.
Pollen, Charles F., Winnetwa, assignor to M. H. Detrick Company, Chicago, Ill. Furnace roof construction. 2,163,435; June 20.
Poor & Company. (See Overmier, E., and Rodman, assignors.)
Poor & Company. (See Warr, Harold G., assignor.)
Porsche, Ferdinand, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhauser, Germany. Springing arrangement for the wheels of vehicles. 2,163,131; June 20.
Porter, Edwin S., New York, N. Y. Film magazine. 2,163,179; June 20.
Postlethwaite, Frank, Farnborough, England. Telemetric system using electrical resistance. 2,163,518; June 20.
Potash Company of America. (See Anderson, Leslie D., assignor.)
Powell, Edward V., Forest Hills, N. Y. Wind instrument of the reed type. 2,163,352; June 20.
Powell, Henry K., Chicago, Ill. Bottle holder. 2,163,290; June 20.
Pratt, John W., and T. A. Kestell, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Heel-attaching machine. 2,163,824; June 20.
Pratt, Louis. (See Carlson, O. A., and Pratt.)
Pratt, Willimena, Kalamazoo, Mich. Match. 2,163,009; June 20.
Preble, Louise B., Hingham, Mass. Heated steering wheel. 2,163,450; June 20.
Presby, Leroy Q., Melrose, assignor to American Stay Company, East Boston, Mass. Apparatus for applying and securing strip material. 2,163,059; June 20.
Price, James W., Charleston, S. C. Automatic emergency train line air control. 2,163,519; June 20.
Protzen, Armand, Berlin-Spandau, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Attitude control means for aircraft. 2,162,862; June 20.
Pulfrich, Hans, Berlin-Friedenau, Germany, assignor to General Electric Company. Ceramic-to-metal seal. 2,163,407; June 20.
Pulfrich, Hans, Berlin-Friedenau, Germany, assignor to General Electric Company. Vacuum-tight seal. 2,163,408; June 20.
Pulfrich, Hans, Berlin-Friedenau, Germany, assignor to General Electric Company. Ceramic-to-metal seal. 2,163,409; June 20.
Pulfrich, Hans, Berlin-Friedenau, and R. Magner, Berlin, Germany, assignors to General Electric Company. Ceramic-to-metal seal. 2,163,410; June 20.
Pungel, Wilhelm, Dortmund, assignor to Kohle-und Eisenforschung G. m. b. H., Dusseldorf, Germany. Welded structural element. 2,163,209; June 20.
Putnam, John T., and E. G. Shure, Chicago, Ill.; said Shure assignor to J. Howard Seymour, Wayne, Ill. Illuminating and advertising device for showcases. 2,163,562; June 20.
Rach, Carl, New York, N. Y. Making hopped beer wort. 2,163,468; June 20.
Raddatz, August J., Milwaukee, Wis. Agitator insert for stoker retorts. 2,163,291; June 20.
Radiant Corporation, The. (See Mace, Arthur T., assignor.)
Radimsky, August, Dubrovnik, Yugoslavia. Bathtub. 2,163,154; June 20.
Radioaktiengesellschaft D. S. Loewe. (See Schlesinger, Kurt, assignor.)
Radioaktiengesellschaft D. S. Loewe. (See Wienecke, Bruno, assignor.)
Radio Corporation of America. (See Bedford, A. V., and Magnusson, assignors.)
Radio Corporation of America. (See Brailsford, Joseph D., assignor.)
Radio Corporation of America. (See Farnham, Paul O., assignor.)
Radio Corporation of America. (See Foster, Dudley E., assignor.)
Radio Corporation of America. (See Foster, D. E., and Finnigan, assignors.)
Radio Corporation of America. (See Gallup, John, assignor.)
Radio Corporation of America. (See Schrader, Harold J., assignor.)
Radio Corporation of America. (See Seeley, Stuart W., assignor.)
Radio Corporation of America. (See Van Dyck, Arthur F., assignor.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Raines, Eugene, Memphis, Tenn., assignor to B. Cohen and D. Bronstein, both of Atlanta, Ga. Coaster brake repair device. 2,163,497; June 20.
Ralston, Anderson W., and C. W. Christensen, assignors to Armour and Company, Chicago, Ill. Cyclic substituted dichlorinated aliphatic hydrocarbons and preparing the same. 2,162,970; June 20.
Ralston, Anderson W., assignor to Armour and Company, Chicago, Ill. Polycarboxylic acid and preparing the same. 2,162,971; June 20.
Ralston, Frank M. (See Bagley, R. N., and Ralston.)
Ralston, Hurley D., and P. J. Gilbert, Oak Park, assignors to Sears, Roebuck and Co., Chicago, Ill. Multiple-leaf catalogue or file. 2,162,972; June 20.
Ramser, Hans. (See Terres, E., Saegebarth, Moos, and Ramser.)
Ramsey, Joseph H., Albany, N. Y. Capping bottles or the like and machine for effecting the same. 2,162,745; June 20.
Randel, Bo F., San Diego, Calif. Apparatus for generating steam. 2,162,746; June 20.
Randell, Ralph B. (See McAuliffe, P. F., and Randell.)
Raschka, Frank J., Minneapolis, Minn. Wheel support. 2,163,469; June 20.
Raub, Ernst, Schwabisch Gmund, Germany, assignor to Edwin F. M. Speidel, Providence, R. I. Preparing metal surface for plating. 2,162,789; June 20.
Ray, Don, Hollywood, assignor to Arden Farms, Inc., Los Angeles, Calif. Package. 2,163,060; June 20.
Raymond, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. 2,163,311; June 20.

Raymond, Gwynne, Oklahoma City, Okla., and W. W. Mason, Kansas City, Mo. Chemical feeding apparatus and automatic control therefor. 2,163,436; June 20.
Read, Robert C., New York, N. Y. Holder for paper matches. 2,162,921; June 20.
Rector, Ralph H., Inglewood, Calif. Molding products of acid-resistant composition. 2,162,747; June 20.
Reddick, Frank A., Ranchester, Wyo. Two-way coupling. 2,163,212; June 20.
Redington, F. B., Co. (See Malhiot, Clarence J., assignor.)
Rehm, Charles W. (See Eversole, J. F., and Rehm.)
Reiber, Albert H., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,162,790; June 20.
Reinecke, Rudolf. (See Burkhardt, W., and Reinecke.)
Reinhold, Arno, Chagrin Falls, Ohio. Vegetable bag. 2,163,324; June 20.
Reliance Steel Products Company. (See Nagin, Harry S., assignor.)
Resistelite Corporation. (See Plensler, Alexander W., assignor.)
Revere Copper and Brass Incorporated. (See Farr, Fred D., assignor.)
Reynolds Electric Company. (See Hinricher, Gerhardt A., assignor.)
Reynolds Electric Company. (See Olson, Wadiemar N., assignor.)
Rhodes, Howard E., Floral Park, assignor to Aerovox Corporation, Brooklyn, N. Y. Electrolytic cell. 2,163,262; June 20.
Riblet, Royal N., Spokane, Wash. Chute and valve. 2,163,061; June 20.
Richards, David C. (See Richards, David W. and D. C.)
Richards, David W. and D. C., Richlandtown, Pa. Hydraulic water and oil pump. 2,162,748; June 20.
Richards, Ernst R., Chicago, Ill. Method of and apparatus for making electrotype plates. 2,162,825; June 20.
Richards, Harry W., New York, N. Y. Railway signal device and train control. 2,163,520; June 20.
Richards, Samuel H., Harpenden, and W. J. Clements; said Clements assignor to British Insulated Cables Limited, Prescot, Lancashire, England. Winding on spools wire, cord, yarn, and other materials. 2,163,010; June 20.
Richmond, Harry H., assignor to Electric Steel Foundry Company, Portland, Oreg. Screen for digesters. 2,163,437; June 20.
Richtmyer, Nelson K. (See Hudson, C. S., and Richtmyer.)
Richmond, George O. (See Candee, A. H., and Richmond.)
Ries, Adolf, Frankfort-on-the-Main, Germany. Necktie smoother and stretcher. 2,162,826; June 20.
Riesenkönig, Herman F., assignor to Lithoprint Company of New York, Inc., New York, N. Y. Print reproducing table. 2,163,062; June 20.
Ripke, Otto, and K. Döttl, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Stable products shortening the bleeding period. 2,162,863; June 20.
Rit Products Corporation. (See Kritchevsky, Wolf, assignor.)
Roberts, Richard G. (See Miller, C. O., and Roberts.)
Rockbestos Products Corporation. (See Lattin, Robert B., assignor.)
Rodman, Thomas E. (See Overmier, E., and Rodman.)
Rogers, John W. (See McKelvey, J. H., and Rogers.)
Roland, Harold F., assignor to Hiram Walker & Sons Inc., Peoria, Ill. Rotary drier. 2,162,973; June 20.
Roll-A-Book Publishers, Inc. (See Whitmyre, Everett, assignor.)
Romanoff, Hippolyte W., New York, N. Y. Machine for making corrugated articles. 2,163,063; June 20.
Romine, Hugh E. (See Kirchner, A. M., and Romine.)
Rominger, Herbert H., assignor to J. Edney Harton, Oakland, Calif. Twine dispenser. 2,163,064; June 20.
Roney, L. C., Inc. (See Roney, Leonard C., assignor.)
Roney, Leonard C., assignor to L. C. Roney, Inc., Los Angeles, Calif. Manifold valve. 2,163,132; June 20.
Rose, James R., Edgeworth, Pa. Converting gaseous hydrocarbon material into normally liquid hydrocarbon material. 2,163,155; June 20.
Rosenberg, George. (See Kaplan, M., and Rosenberg.)
Rosenblatt, Philip, Brooklyn, assignor to Biolite Incorporated, New York, N. Y. Display device. 2,162,897; June 20.
Rosenstein, Ludwig, assignor to Shell Development Company, San Francisco, Calif. Fertilization for vegetation. 2,163,065; June 20.
Rostvedt, Julian O. (See Clark, George W., assignor.)
Roth, Ernst, assignor to the film Gebrüder Buhler, Uzwil, Switzerland. Elevator of the endless band type. 2,163,353; June 20.
Rotter, Lutwin C., Maplewood, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo. Relief device for lubricating apparatus. 2,162,898; June 20.
Rowe, Raymond N., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Front operated switch. 2,163,230; June 20.
Rugg, Walter S., Pittsburgh, and H. D. James, Edgewood, Pa. Prefabricated wiring system. 2,162,864; June 20.
Rumford, Lewis, 2d. (See Cantrell, R. H., and Rumford.)
Ruska, Leslie C., Cicero, Ill. System of automobile door control. 2,162,749; June 20.
Russell, Frank C. (See Warr, E. H., Stotter, and Russell.)
Rust, John D., Memphis, Tenn. Cotton picking machine. 2,162,750; June 20.
Sabel, Edward R., assignor to The Haloid Company, Rochester, N. Y. Copyholder for photocopy machines. 2,163,451; June 20.
Saegebarth, Erich. (See Terres, E., Saegebarth, Moos, and Ramser.)
Sahlboin, Olaf A., Everett, Wash. Thermostatic circuit closer. 2,162,974; June 20.
Sail-Me Company. (See Howard, Joseph O., assignor.)
St. Joseph Iron Works. (See Hintz, P., and Schmidtke, assignors.)
Salzberg, Paul L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical compound. 2,163,104; June 20.
Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,163,156; June 20.
Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Inc., New York, N. Y. Electron discharge apparatus. 2,163,157; June 20.
Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,163,247; June 20.
Sanders-Dolgoruki, Edgar, assignor to Truecolour Film Limited, London, England. Color photography or cinematography. 2,163,325; June 20.
Sardeson, Robert, Minneapolis, Minn., assignor to McGraw Electric Company, Chicago, Ill. Automatic toaster. 2,162,899; June 20.
Sassoon, Michael T., and E. T. Worsell, Kent, England. Safety device for motor vehicles. 2,163,292; June 20.
Sauzedde, Claude, assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich. Wheel mounting. 2,162,751; June 20.
Schaub, Carleton P., St. Paul, Minn. Game. 2,163,011; June 20.
Schauer, Adolf. (See Hamberger, J., and Schauer.)
Schauer, Adolf, Brooklyn, assignor to J. Hamburger, Richmond Hill, N. Y. Tamperproof closure. 2,162,752; June 20.
Schauer, Adolf, Brooklyn, assignor to J. Hamburger, Richmond Hill, N. Y. Tamperproof closure for containers. 2,162,753; June 20.
Schauer, Adolf, Ridgewood, assignor to J. Hamburger, Richmond Hill, N. Y. Tamperproof closure and container. 2,162,754; June 20.
Scheibel, George A. (See Bernier, Edouard, assignor.)
Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Resistance element. 2,163,067; June 20.
Schenk, Abraham L., Los Angeles, Calif. Toe pad. 2,163,012; June 20.
Schipper, Lyle F., assignor to Guy H. Stickney, Edgemont, S. Dak. Pin lifting implement. 2,163,105; June 20.
Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Relaxation oscillation generator. 2,163,214; June 20.
Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin,Steglitz, Germany. Television transmitter. 2,163,215; June 20.
Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Television transmission arrangement. 2,163,216; June 20.
Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Television receiver circuit. 2,163,217; June 20.
Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Mains supply apparatus. 2,163,218; June 20.
Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Stabilization of image amplifiers. 2,163,219; June 20.
Schlumbohm, Peter, New York, N. Y. Bottle cooler. 2,163,568; June 20.
Schmidt, Alfred C., West Englewood, and J. F. Jack, assignors to The H. A. Wilson Company, Newark, N. J. Electrical make and break contact. 2,163,354; June 20.
Schmidt, Arno, Dresden, Germany. Furniture. 2,162,975; June 20.
Schmidt, Ferdinand, Verden-on-the-Aller, Germany. Siloing green fodder. 2,162,922; June 20.
Schmidt, Louis F., Chicago, Ill. Assist strap. 2,163,106; June 20.
Schmidtke, Albert H. (See Hintz, P., and Schmidtke.)
Schmieg, John D., assignor to Schmieg Sheet Metal Works, Detroit, Mich. Apparatus for removing foreign material from air. 2,163,452; June 20.
Schmieg Sheet Metal Works. (See Schmieg, John D., assignor.)
Schmitz, Werner, Soleure, Switzerland. Wrist watch. 2,163,220; June 20.
Schneider, Oskar, Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Shielded connector device. 2,163,412; June 20.
Schneider, Wilhelm. (See Wilmanns, G., Schneider, and Wendt.)
Scholl Manufacturing Company Limited, The. (See Thornton-Morris, George, assignor.)

Scholz, Erich, Grotzingen, assignor to Deutsche Waffen-und Munitionsfabricken Aktiengesellschaft, Berlin-Charlottenburg, Germany. Detonating compositions. 2,163,498; June 20.
Schrauth, Walther, Berlin-Dahlem, assignor to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany. Reclaiming mineral oils. 2,163,563; June 20.
Schrader, Harold J., Haddon Heights, N. J., assignor to Radio Corporation of America. Oscillograph apparatus. 2,162,827; June 20.
Schrauth, Walther, Berlin-Dahlem, Germany, assignor, by mesne assignments, to Unichem Chemikalien Handels A.-G., Zurich, Switzerland. Sulphonated and acetylated alcohols and hydroxy acids, and sulphonated and hydrolyzed derivatives thereof. 2,163,133; June 20.
Schröder, Heinrich, Budapest, Hungary. Shoe. 2,163,158; June 20.
Schroll, Franz, Mueckenberg, and A. Vogt, Kraftborn, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Electrothermic production of boron carbide. 2,163,293; June 20.
Schröter, Fritz, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Circuit and series resistance for indirectly heated cathodes. 2,162,976; June 20.
Schuhmacher, Elmer J., Waterloo, Iowa. Garter fastener. 2,163,521; June 20.
Schultis, Charles F., assignor to Globe Valve Corporation, Cleveland, Ohio. Waste fitting. 2,163,453; June 20.
Schultze, Paul, assignor to J. C. Doran, doing business as Doran Brothers, Inc., Danbury, Conn. Pouncing machine and method of pouncing. 2,163,383; June 20.
Schulz, Hermann, Mainz-Mombach, Germany. Production of volatile fatty acid anhydrides. 2,163,013; June 20.
Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treating hydrocarbon oil. 2,163,312; June 20.
Schwartz, Leo A., Oklahoma City, Okla. Cigarette package. 2,163,326; June 20.
Schwartz, Morris, Brooklyn, N. Y. Range finder attachment for cameras. 2,163,159; June 20.
Schwier, William, Detroit, Mich. Carburetor. 2,163,499; June 20.
Scott & Williams, Incorporated. (See Grothey, Ivan W., assignor.)
Scupin, Werner, Namslau, Silesia, Germany. Feed and guide roller for cinematograph apparatus. 2,163,470; June 20.
Scusa, Lino, West Phoenix, and R. Kilian, Baldwinsville, N. Y., assignors to The Gardner-Richardson Company, Middletown, Ohio. Manufacture of containers and the like. 2,163,318; June 20.
Searcy, Lynn D., Detroit, Mich. Power transmission. 2,163,066; June 20.
Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing. 2,162,977; June 20.
Sears, Roebuck and Co. (See Ralston, H. D., and Gilbert, assignors.)
Seaton, Albert C., Indianapolis, Ind. Device and process for performing chemical analyses. 2,162,978; June 20.
Sechrist, Paul A., Shrewsbury, Pa., assignor of one-half to Dr. Carroll H. Gerry, Shrewsbury, Pa. Lipstick holder. 2,163,355; June 20.
Sedlmayr, Eugene A., Delavan, Wis. Saw-filing tool. 2,163,248; June 20.
Seeber, Clarence F. (See Owsley, W. D., and Seeber.)
Seeley, Stuart W., Bayside, N. Y., assignor to Radio Corporation of America. Remote control system. 2,163,411; June 20.
Seger, Francis M. (See Berger, H. G., Moran, and Seger.)
Seidenfaden, Wilhelm. (See Thoma, E., and Seidenfaden.)
Semlon, Walter A., Milford, Conn. Fastening device. 2,163,134; June 20.
Sewell, Benjamin W., Tulsa, Okla. Pen-cleaning device. 2,162,865; June 20.
Seyforth, Rome C., assignor to The Shelby Metal Products Company, Shelby, Ohio. Pocket atomizer. 2,162,756; June 20.
Seymour, J. Howard. (See Putnam, J. T., and Shure, assignor.)
Shaffer, John E., assignor of one-half to J. L. Smith, Tulsa, Okla. Tubing oil saver. 2,163,327; June 20.
Shaler Company, The. (See Hanson, Harold H., assignor.)
Sharp, Meadows, St. Catharines, Ontario, Canada. Antenna for motor vehicles. 2,163,471; June 20.
Shatto, Adrienne, and A. Jardot, New York, N. Y. Abdominal reducer. 2,163,107; June 20.
Shauer, Leon S., administrator. (See Shauer, Louis S.)
Shauer, Louis S., deceased, Los Angeles, Calif., L. S. Shauer, administrator. Mattress covering bed sheet. 2,162,755; June 20.
Shaw, Stanley M., Dearborn, Mich. Lapping machine. 2,163,438; June 20.
Shaw, Walter, Huddersfield, England. Yarn winding machine. 2,163,328; June 20.
Shaw, William C., Woodstock, Ontario, Canada, assignor, by mesne assignments, to Linderman Devices, Incorporated, Wilmington, Del. Fluid brake construction. 2,162,757; June 20.
Shayne, Aryan. (See Held, B., and Shayne.)
Sheehan, William M. (See Hallquist, E. G., and Sheehan.)
Shelby Metal Products Company, The. (See Seyforth, Rome C., assignor.)
Shelby Salesbook Company. (See Critchfield, Walter O., assignor.)
Shell Development Company. (See Bogdan, Mihai, assignor.)
Shell Development Company. (See Hund, W. J., Thomas, and Luten, Jr., assignors.)
Shell Development Company. (See McKittrick, Donald S., assignor.)
Shell Development Company. (See Rosenstein, Ludwig, assignor.)
Shepard, Edwin E., San Francisco, Calif. Dental floss adjuster. 2,163,500; June 20.
Sherwen, Joseph W., Erith, Kent, assignor to The General Electric Company, Limited, London, England. Vibrating screens and the like. 2,163,249; June 20.
Shimer, John M., assignor to Oil Well Supply Company, Dallas, Tex. Valve. 2,163,472; June 20.
Short, Herbert H., Fort Collins, Colo. Refrigerator air circulating and purifying means. 2,162,923; June 20.
Shotey, William, Belleville, Mich. Spiral grinding machine. 2,162,758; June 20.
Shreve, Clifford B., assignor to Tyler Fixture Corporation, Niles, Mich. Glare eliminator. 2,162,791; June 20.
Shure, Edward G. (See Putnam, J. T., and Shure.)
Shuttleworth, Howard L., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Pile fabric. 2,163,135; June 20.
Siber, Hans, assignor to the firm Grieder & Cie., Zurich, Switzerland. Producing waterproof, form-retaining articles, as hats, from textile goods. 2,162,866; June 20.
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Lauck, Friedrich, assignor.)
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Plotz, Feodor, assignor.)
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Protzen, Armand, assignor.)
Siemens & Halske. (See Fritzsche, R., and Bauer, assignors.)
Siemens & Halske, Aktiengesellschaft. (See Schneider, Oskar, assignor.)
Silberman, David, Brooklyn, assignor, by mesne assignments, to Universal Slide Fastener Co., Inc., New York, N. Y. Slide fastener. 2,163,413; June 20.
Simon, Abram, Northampton, England. Machinery guard. 2,163,473; June 20.
Simons, Julius, Philadelphia, Pa. Static eliminator. 2,163,294; June 20.
Simons, Louis J., New York, N. Y., assignor to Sound Products Co. Inc. Combined motion picture projector and sound reproducer. 2,163,263; June 20.
Simpson, Howard W., Dearborn, Mich. Power take-off. 2,162,979; June 20.
Sinclair Refining Company. (See Meissner, Herman A., assignor.)
Singer Manufacturing Company, The. (See Corrall, H., and Heggie, assignors.)
Sioberg, Charles F. (See Laucks, S. F., and Sioberg.)
Sipior, Casimir J., North Tonowanda, N. Y. Display device. 2,163,329; June 20.
Slack, Frederic W., Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich. Wheel suspension. 2,162,828; June 20.
Sleeper & Hartley, Incorporated. (See Blount, W. H., and Fisher, assignors.)
Slick, Edwin E., Pittsburgh, Pa. Building wall construction. 2,163,454; June 20.
Sloan, William H., Washington, D. C. Humidifier. 2,163,474; June 20.
Slocum, Harvey F., Long Branch, N. J., assignor to American Telephone and Telegraph Company. Manhole structure. 2,163,221; June 20.
Smaltz, John C., New York, N. Y., and C. W. Kahlerth, Newark, N. J., assignors to McKiernan-Terry Corporation, New York, N. Y. Airplane winch. 2,163,231; June 20.
Smith, Charles M. (See Goodhue, L. D., and Smith.)
Smith, Dallas V., Mount Pleasant, Iowa. Automatic speed control. 2,163,108; June 20.
Smidth, F. L., & Company. (See Middelboe, Kristian, assignor.)
Smith, Harry F., assignor to The Acklin Stamping Company, Toledo, Ohio. Steering wheel hub structure. 2,162,759; June 20.
Smith, Harry F., assignor to The Acklin Stamping Company, Toledo, Ohio. Steering wheel hub structure. 2,162,760; June 20.
Smith, Harry F., assignor to The Acklin Stamping Company, Toledo, Ohio. Steering wheel hub structure. 2,162,761; June 20.
Smith, Harry F., assignor to The Acklin Stamping Company, Toledo, Ohio. Steering wheel hub structure. 2,163,569; June 20.
Smith, Henry L. (See Jones, L. E., and Smith.)
Smith, Jesse L. (See Shaffer, John E., assignor.)
Smith, L Julian, Long Beach, Calif. Rug Croquet wicket. 2,162,867; June 20.

Smith, Rowland D., assignor to Corning Glass Works, Corning, N. Y. Coating glass with metal. 2,162,980; June 20.
Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Welding machine. 2,162,868; June 20.
Smythe, Ethelbert H., Detroit, Mich. Eyeglass mounting. 2,162,900; June 20.
Snapp, Martha A., assignor of one-half to R. E. Peppler, Fort Wayne, Ind. Calf weaner. 2,163,330; June 20.
Snell, Samuel A., assignor to The American-National Company, Toledo, Ohio. Velocipede structure. 2,162,762; June 20.
Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A. (See Pateras Pescara, Raul, assignor.)
Society of Chemical Industry in Basle. (See Kambli, Eduard, assignor.)
Society of Chemical Industry in Basle. (See Straub, F., and Pieth, assignors.)
Socony-Vacuum Oil Company. (See Berger, H. G., Moran, and Seger, assignors.)
Socony-Vacuum Oil Company. (See Bolinger, J. C., Howard, and Woolley, assignors.)
Solberg, Albright, New York, N. Y. Delivery shutter. 2,163,356; June 20.
Somers, Richard M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. 2,162,981; June 20.
Somerville, Gareth G., Pittsfield, Mass., assignor to General Electric Company. Arc welding. 2,163,439; June 20.
Sonoco Products Company. (See Dunlap, Charles K., assignor.)
Sooy, Walter E. (See von Sydow, R. W., and Sooy.)
Sound Products Co. Inc. (See Simons, Louis J., assignor.)
Spanagel, Edgar W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and products therefrom. 2,163,109; June 20.
Speeder Machinery Corporation. (See Baker, Walter, assignor.)
Speicher, Paul J., and L. O. Stark, assignors to Cyclone Seeder Co. Inc., Urbana, Ind. Bucket. 2,163,501; June 20.
Speidel, Edwin F. M. (See Raub, Ernst, assignor.)
Spellacy, John R., Burlingame, Calif., assignor to Hercules Powder Company, Wilmington, Del. Drying milk whey. 2,163,331; June 20.
Spelman, Vincent J., Northport, Long Island, N. Y. Hatch tent. 2,163,072; June 20.
Spencer Aircraft Motors, Inc. (See Spencer, Louis R., assignor.)
Spencer, Louis R., West Hartford, assignor to Spencer Aircraft Motors, Inc., Hartford, Conn. Multicylinder engine assembly. 2,163,357; June 20.
Sperlich, Herman A. (See Happe, Arthur H., assignor.)
Sperry Gyroscope Company. (See Chafee, E. W., and Murtagh, assignors.)
Sperry Gyroscope Company. (See Chafee, E. W. and Van Auken, assignors.)
Sperry Products, Inc. (See Drake, Harcourt C., assignor.)
Spitzli, Donald H., Arlington, and R. L. Kennedy, Plainfield, N. J., assignors to Congoleum-Nairn Inc. Composition and making same. 2,162,924; June 20.
Springer, Berthold, Berlin-Schoneberg, Germany. Process and device for the production of electrolytic condensers. 2,163,213; June 20.
Stacey, Josey P. (See Paul, Edward B., assignor.)
Standard Mailing Machines Company. (See Storck, Frederick W., assignor.)
Standard Oil Development Company. (See Baldeschwieler, Emile L., assignor.)
Standard Oil Development Company. (See Kuhl, Paul E., assignor.)
Standard Oil Development Company. (See Laughlin, Kenneth C., assignor.)
Standard Oil Development Company. (See Wasson, J. I., and Davis, assignors.)
Standard Stoker Company, The. (See Hogg, Francis, assignor.)
Stark, Levi O. (See Speicher, P. J., and Stark.)
Starkweather, Howard W., New Castle County, and A. M. Collins, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of halogen containing unsaturated compounds and products produced thereby. 2,163,250; June 20.
Steatit-Magnesia Aktiengesellschaft. (See Otto, Franz, assignor.)
Steele, Edwin G. (See Sutton, H. M. and Steele.)
Stephano, Constantine S., Elkins Park, Pa. Cigarette rod forming mechanism. 2,163,414; June 20.
Stephano, Constantine S., Elkins Park, Pa. Regulator and indicator for cigarette making machines. 2,163,415; June 20.
Stetson, John B., Company. (See Kimber, E. W., and McManus, assignors.)
Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Flue cleaner. 2,163,384; June 20.
Stewart, Seymour F., assignor to The Leece-Neville Company, Cleveland, Ohio. Automatic cut-out device. 2,163,502; June 20.

Stickdorn, Kurt, and R. Hueter, Dessau-Rossiau, Anhalt, assignors to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany. Procedure for the improvement of textiles. 2,163,068; June 20.
Stickney, Guy H. (See Schipper, Lyle F., assignor.)
Still, Carl, Gesellschaft mit beschränkter. (See Breitbach, Fritz, assignor.)
Stillman, Albert L. (See Zwoyer, E. B. A., and Stillman.)
Stone, J. & Company. (See Tucker, Joseph F., assignor.)
Storck, Frederick W., Arlington, assignor to Standard Mailing Machines Company, Everett, Mass. Sheet-moistening device. 2,163,529; June 20.
Stotter, Benjamin H. (See Warr, E. H., Stotter, and Russell.)
Straub, Fritz, and P. Pieth, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Substituted erinaphthindandiones. 2,163,110; June 20.
Striemer, Bruno P., and G. Fisher, St. James, Minn. Automatic speed alarm switch. 2,163,111; June 20.
Stringer, Louis C., Chicago, Ill., assignor to Electronics Supply Corp. High voltage nonarcing selector switch. 2,163,069; June 20.
Stringer, Louis C., Chicago, Ill., assignor to Electronics Supply Corp. Remote control dual button hand switch. 2,163,070; June 20.
Stringer, Louis C., Chicago, Ill., assignor to Electronics Supply Corp. Button forming and wire inserting machine. 2,163,071; June 20.
Stroud, Paul G., assignor to Belmont Hosiery Company, Belmont, N. H. Flatwork knitting machine. 2,162,982; June 20.
Stuart, Herbert W., Beverly, and H. S. Hunt, Burlington, assignors to United States Pipe and Foundry Company, Burlington, N. J. Mold coating mechanism for metallic centrifugal pipe molds. 2,162,829; June 20.
Stuart, Kenneth B., Denver, Colo., assignor to The Colorado Fuel and Iron Corporation. Active carbon production. 2,162,763; June 20.
Subick, George, Chicago, Ill. Hanger for trousers. 2,163,295; June 20.
Suckfüll, Fritz, Leverkusen-Wiesdorf, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs. 2,163,251; June 20.
Sullivan, Eugene C., assignor to Corning Glass Works, Corning, N. Y. Glass melting furnace and using the same. 2,162,983; June 20.
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Sullivan Machinery Company. (See Joy, J. F., and Baldwin, assignors.)
Sullivan, Roy W., Richardson Park, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Calcium sulphate pigments. 2,163,385; June 20.
Summers, Caleb E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Composite piston. 2,162,830; June 20.
Sun Tube Corporation, The. (See Fridén, John H., assignor.)
Süssenguth, Otto, Erkner, near Berlin, assignor to Bakelite Gesellschaft mit Beschränkter Haftung, Berlin, Germany. Condensation products from formaldehyde and urea. 2,163,264; June 20.
Sutton, Henry M., and E. G. Steele, Dallas, Tex. Apparatus for accurate pnuematic separation of particles of a mass. 2,163,332; June 20.
Sutton, Steele & Steele, Inc. (See Knight, Frank L., assignor.)
Swan, Joseph H., III, assignor to The Gardner-Richardson Company, Middletown, Ohio. Container. 2,162,764; June 20.
Swearingen, George H., assignor to Louisville Tin and Stove Company, Incorporated, Louisville, Ky. Soot cleaner for stove pipe drum ovens. 2,163,358; June 20.
Sweitzer, James C., Wauwatosa, Wis. Charging bucket. 2,163,386; June 20.
Symons, Arthur H., assignor to Symons Clamp & Mfg. Company, Chicago, Ill. Form structure for concrete walls. 2,162,869; June 20.
Symons Clamp & Mfg. Company. (See Symons, Arthur H., assignor.)
Sziklai, George K., New York, assignor to Electro-Mechanical Research, Inc., Brooklyn, N. Y. Electrolytic device. 2,163,416; June 20.
Tabern, Donalee L., Lake Bluff, assignor to Abbott Laboratories, North Chicago, Ill. Aliphatic mercurated alkyl amide. 2,163,296; June 20.
Talon, Inc. (See Jones, William J., assignor.)
Tannehill, Arthur L. (See Cole, A. N., and Tannehill.)
Tarnoff, Louis, Chicago, Ill. Nonoxidizing and nondeteriorating developer for off-set or contrast film and plate negatives. 2,162,765; June 20.
Tate, John R., Whittier, Calif. Archery bow and sight therefor. 2,163,503; June 20.
Taylor, Carl C., assignor to Educational Laboratories, Inc., Brownwood, Tex. Educational device. 2,162,766; June 20.
Taylor, James H., Oak Park, Ill. Making T's. 2,162,870; June 20.
Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Bartles, Bernhard, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Bartles, H., and Ulbricht, assignors.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Fritz, Karl, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, Fritz.)
Telephon-Apparat Fabrik E. Zwietusch and Company. (See Langner, Heinrich, assignor.)
Teletype Corporation. (See Reiber, Albert H., assignor.)
Teletype Corporation. (See Zenner, Walter J., assignor.)
Temperatair Incorporated. (See Farr, Morrill N., assignor.)
Terres, Ernest, New York, and E. Saegebarth, Long Island City, N. Y., and J. Moos, Berlin-Mariendorf, and H. Ramser, Berlin-Steglitz, assignors, by mesne assignments, to Edeleanu, Gesellschaft m. b. H., Berlin, Germany. Refining mineral oils. 2,163,564; June 20.
Terschmann, Karl R., Lodz, Poland. Chair bedstead. 2,163,365; June 20.
Teves, Marten C., and F. M. Penning, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Phototube. 2,162,792; June 20.
Thieme, Romeo F., Leipzig, Germany. Color motion picture system. 2,163,530; June 20.
Thoma, Erwin, Franfort-on-the-Main-Hochst, and W. Seidenfaden, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs insoluble in water and fiber dyed therewith. 2,163,073; June 20.
Thoma, Erwin, Franfort-on-the-Main-Hochst, and W. Seidenfaden, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs insoluble in water and fiber dyed therewith. 2,163,074; June 20.
Thomas, Joseph F., Slidell, La. Lock. 2,162,984; June 20.
Thomas, Lloyd R., assignor to The Youngstown Foundry & Machine Company, Youngstown, Ohio. Processing machine. 2,163,504; June 20.
Thomas, Ralph B., Beverly, assignor to Hygrade Sylvania Corporation, Salem, Mass. Apparatus for filament coiling. 2,163,565; June 20.
Thomas, Samuel B. (See Hund, W. J., Thomas, and Luten.)
Thompson, James F. (See Fisher, H. C., and Thompson.)
Thompson, Robert L. (See Dear, G. W., and Thompson.)
Thornton-Norris, George, assignor to The Scholl Manufacturing Company Limited, London, England. Chair. 2,163,505; June 20.
Thurlow, Thomas L., Dayton, Ohio. Averaging device for observation instruments. 2,162,767; June 20.
Thwaits, Frederick G., Wauwatosa, assignor to The Heil Co., Milwaukee, Wis. Vehicular tank. 2,163,387; June 20.
Tisza, Ernest E., Englewood, and J. Tyrner, Elizabeth, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Direct-current generator for arc welding. 2,163,417; June 20.
Tisza, Ernest E., and J. Tyrner, Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Direct-current arc welding generator. 2,163,418; June 20.
Titanium Alloy Manufacturing Company, The. (See Comstock, G. F., and Efimoff, assignors.)
Titchen, Clifford, Livingston, and W. Boehl, Union, N. J., assignors to American Can Company, New York, N. Y. Container-sealing machine. 2,162,768; June 20.
Title Guarantee and Trust Company. (See Townsend, Harry E.)
Tomalis, Anthony J., Pittston, Pa. Blasting device. 2,163,475; June 20.
Tomkins, Harold A., Jackson City Bank and Trust Company, executors of said Harold A. Tomkins, deceased, assignors to Tomkins-Johnson Company, Jackson, Mich. Riveting machine and the like. 2,163,440; June 20.
Tomkins-Johnson Company. (See Tomkins, Harold A., assignor.)
Toro Manufacturing Corporation of Minnesota. (See Moyer, Amos F., assignor.)
Townsend, Harry E., Brooklyn, N. Y., deceased; Title Guarantee and Trust Company, executor, assignor to Bartlett Arkell, New York, N. Y. Machine for manufacturing bag tubes. 2,163,265; June 20.
Travler Radio & Television Corporation. (See Miller, Joseph L., assignor.)
Trumbull Electric Manufacturing Company, The. (See Rowe, Raymond N., assignor.)
Truecolour Film Limited. (See Sanders-Dolgoruki, Edgar, assignor.)
Tucker, Joseph F., Petts Wood, assignor to J. Stone & Company, Limited, Deptford, England. Ship's sewage disposal apparatus. 2,163,506; June 20.
Tuley, Charles B., Glenolden, and J. W. McNulty, Ridley Park, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Condenser. 2,162,871; June 20.
Tuttle & Bailey, Inc. (See Hart, Stanley, assignor.)
Tyler Fixture Corporation. (See Shreve, Clifford B., assignor.)
Tyrner, Joseph. (See Tisza, E. E., and Tyrner.)
Ufer, Hanns, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Oxidation of vinyl sulphides. 2,163,180; June 20.
Ulbricht, Gunther. (See Bartels, H., and Ulbricht.)
Ulrich, Heinrich and E. Ploetz, Ludwigshafen-on-the-Rhine, and M. Bögemann, Cologne-Mulheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing halogen alkyl amines or their salts. 2,163,181; June 20.
"Unichem" Chemikalien Handels A.-G. (See Schrauth, Walther, assignor.)
Union Oil Company of California. (See Allison, John R., assignor.)
Union Switch & Signal Company, The. (See Agnew, Norman F., assignor.)
Union Switch & Signal Company. (See Crago, Paul H., assignor.)
Union Switch & Signal Company. (See Grondahl, Lars O., assignor.)
Union Switch & Signal Company, The. (See Pelikan, John M., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
United Shoe Machinery Corporation. (See Brandt, Francis L., assignor.)
United Shoe Machinery Corporation. (See Engel, Karl, assignor.)
United Shoe Machinery Corporation. (See McKenzie, Wilbur L., assignor.)
United Shoe Machinery Corporation. (See Pratt, J. W., and Kestell, assignors.)
United States Envelope Company. (See Heywood, Vincent E., assignor.)
United States Pipe and Foundry Company. (See Stuart, H. W., and Hunt, assignors.)
United States Rubber Company. (See Craver, Bates B., assignor.)
United States Steel Corporation. (See Cantrell, R. H., and Rumford, assignors.)
Universal Cooler Corporation. (See Higham, William W., assignor.)
Universal Oil Products Company. (See Chenicek, Joseph A., assignor.)
Universal Oil Products Company. (See Flock, B. J., and Nelson, assignors.)
Universal Slide Fastener Co. (See Silberman, David, assignor.)
Vaco Products, Inc. (See Carter, P. M., and Larsen, assignors.)
Van Anderson, Rea, Los Angeles, Calif. Charcoal production apparatus and process. 2,162,991; June 20.
Van Antwerp, George S., Norristown, Pa. Strain insulator. 2,163,160; June 20.
Van Auken, Howard C. (See Chafee, E. W., and Van Auken.)
Van Derveer, Clarence A., Chicago, Ill., assignor to S. Karpen & Bros. Seat back and the like and forming. 2,163,359; June 20.
Van Dyck, Arthur F., Yonkers, N. Y., assignor to Radio Corporation of America. Receiver subaudible modulation control circuit. 2,162,901; June 20.
Van Uum, John H., Lakewood, Ohio. Resilient securing device. 2,163,455; June 20.
Vincent, Jesse G., Grosse Pointe, assignor to Packard Motor Car Company, Detroit, Mich. Power plant for motor vehicles. 2,163,476; June 20.
Vogt, Adolf. (See Schroll, F., and Vogt.)
Volgt, William A., Toledo, Ohio. Making a denture. 2,163,014; June 20.
Volt, Willy, Stuttgart-Bad Cannstatt, Germany, assignor to Robert Bosch Gesellschaft mit beschrankter Haftung. Fuel injection pump. 2,163,313; June 20.
Von Asboth, Oscar, London, England. Rotary wing aircraft. 2,162,794; June 20.
Von Däniken, Karl, Lucerne, Switzerland. Lapel reinforcement. 2,163,333; June 20.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Sheet transferring device. 2,163,441; June 20.
Von Sydow, Rudolf W., and W. E. Sooy, assignors to The Gardner-Richardson Company, Middletown, Ohio. Production of sealed containers. 2,163,317; June 20.
Waage, Alvin H., Westfield, N. J. Thermostat remote control. 2,163,297; June 20.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie. (See Schroll, F., and Vogt, assignors.)
Wadsworth, Leslie H., New York, assignor to Control Instrument Company, Inc., Brooklyn, N. Y. Magnetic unit. 2,163,161; June 20.
Wagner Electric Corporation. (See Boldt, W. F., and Dick, assignors.)
Wagner Electric Corporation. (See Dick, Burns, assignor.)
Wagner, Frank C., assignor of one-half to V. A. Bradley, Corpus Christi, Tex. Variable clearance volume engine. 2,163,015; June 20.
Walker, Hiram, & Sons Inc. (See Roland, Harold F., assignor.)
Walti, Alphonse. (See Major, R. T., and Walti.)
Wamser, Charles J., Milwaukee, Wis. Interchangeable illuminated sign. 2,163,298; June 20.
Warner Bros. Pictures, Inc. (See Gage, Fred W., assignor.)
Warr, Edward H., B. H. Stotter, and F. C. Russell, Baltimore, Md. Fire extinguisher. 2,163,477; June 20.

Warr, Harold G., Park Ridge, assignor to Poor & Company, Chicago, Ill. Flange protecting rail anchor. 2,163,299; June 20.
Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Repeating alarm timer. 2,163,419; June 20.
Warren, Paul C., Lakeside, and W. Boydston, Niles, Mich. Refrigerator. 2,163,182; June 20.
Warren Telechron Company. (See Warren, Henry E., assignor.)
Wasson, Jones I., and G. H. B. Davis, Elizabeth, N. J., assignors to Standard Oil Development Company. Stabilizer for lubricating oil dye. 2,163,300; June 20.
Wayne Pump Company, The. (See Farnham, I. R., and Jauch, assignors.)
Weagant, Roy A., Douglaston, Long Island, N. Y., assignor to Radio Corporation of America. Automatic volume control circuit. 2,163,167; June 20.
Wehinger, Robert, Nofels-Feldkirch, Vorarlberg, Austria. Fuel evaporating device for internal combustion engines. 2,163,522; June 20.
Weir, G. & J., Limited. (See Hillier, Harold, assignaor.)
Weiss, Felix, Plainfield, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Making electric condensers. 2,162,925; June 20.
Weiss, Ludwig, assignor to Deutsche Gold und Silber Scheide-Anstalt, vormals Roessler, Frankfort-on-the-Main, Germany. Opacifying agents for enamels and glazes. 2,163,334; June 20.
Wells, George C., Lynwood, assignor to Wells Oil Tool Co., Los Angeles, Calif. Pump piston. 2,163,162; June 20.
Wells Oil Tool Co. (See Wells, George C., assignor.)
Wells, William A. H., Providence, R. I. Swivel. 2,163,420; June 20.
Wendt, Bruno. (See Wilmanns, G., Schneider, and Wendt.)
West, Ben J., Puyallup, Wash. Windshield cleaning device. 2,162,985; June 20.
Westcott, Le Roy W., Hartford, Mich. Concrete form. 2,163,222; June 20.
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See Logan, John W., Jr., assignor.)
Westinghouse Air Brake Company, The. (See Loudenbeck, Harry C., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Coleman, H. C., and Lynn, assignors.)
Westinghouse Electric & Manufacturing Company. (See Horne, H. F., and Perry, assignors.)
Westinghouse Electric & Manufacturing Company. (See MacNeill, John B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tuley, C. B., and McNulty, assignors.)
Weston, Milton T., Red Bank, N. J. Self-adjusting felt roll for paper machines. 2,163,163; June 20.
Wettstein, Fritz A., assignor to Aktiebolaget Spontan, Stockholm, Sweden. Making rotor blades for steam or gas turbines. 2,163,531; June 20.
White, Eugene B., Oak Park, Ill. Monolithic cementitious structure. 2,162,872; June 20.
Whitmyre, Everett, assignor to Roll-A-Book Publishers, Inc., Syracuse, N. Y. Display device. 2,163,523; June 20.
Wickenden, Leonard, Manhasset, and W. Baptiste, Brooklyn, assignors to Beau May Process Corporation, New York, N. Y. Food product. 2,163,164; June 20.
Wiebusch, Charles F., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifying system. 2,162,986; June 20.
Wiegand, Kurt, Berlin-Hohen-Neuendorf, Germany, assignor to General Electric Company. Luminous symbol for advertising purposes. 2,163,442; June 20.
Wienecke, Bruno, Berlin, assignor to Radio-aktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Braun tube. 2,163,210; June 20.
Wildon, Thomas D., Reading, assignor to P. K. Guillow, Wakefield, Mass. Toy airplane. 2,163,075; June 20.
Wildt and Company Limited. (See Holmes, Henry H., assignor.)
Wilkin, Lester A., East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa. Water sealed gas holder. 2,163,076; June 20.
Will, Herbert C., St. Louis, Mo. Can opener and holder. 2,163,301; June 20.
Williams, Daniel J. (See Knebel, Oscar, assignor.)
Williams, Floyd E., assignor to Marbon Corporation, Gary, Ind. Coated sheet material. 2,162,769; June 20.
Wills, Marion C. (See Henry, A. R., and Wills.)
Wilmanns, Gustav, Wolfen, Bitterfeld, and W. Schneider and B. Wendt, Dessau, Anhalt, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic developer. 2,163,166; June 20.
Wilson, H. A., Company, The. (See Schmidt, A. C., and Jack.)
Wilson, James E. (See Phillippi, D. M., and Wilson.)
Wilson, Lavett S., Los Angeles, Calif. Ventilator. 2,163,077; June 20.
Wilson, Rosser L., Mahweh, N. J., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Brake shoe. 2,162,770; June 20.
Winans, Edwin O., Denver, Colo. Motor. 2,162,771; June 20.
Winship, Edward J., Baltimore, Md., assignor to Corning Glass Works, Corning, N. Y. Glass construction block and wall assembly. 2,162,987; June 20.
Winthrop Chemical Company. (See Hofmann, Conrad, assignor.)
Winthrop Chemical Company. (See Ripke, O., and Dötl, assignors.)
Wise, Benjamin H., North Olmsted, Ohio. Stove. 2,163,165; June 20.
Witkin, B. E. (See Marvin, Stanley, assignor.)
Wolchek, William H., Walnut Grove, Mo. Control means for transmission mechanisms. 2,163,507; June 20.
Wolf, William G., Wilmerding, Pa. Tooth brush. 2,163,211; June 20.
Wolfe, Graff F., Minneapolis, Minn. Game. 2,163,478; June 20.
Wolfgram, Roy F. (See Phipps, John T., assignor.)
Wolfram, William S., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Clutch. 2,162,873; June 20.
Wolkow, Isaac L., Louisville, Ky. Hair curler. 2,163,112; June 20.
Wood, Gar, Industries, Inc. (See Barrett, Edward R., assignor.)
Wood, Harold B., Jennings, Mo. Method of and means for attaching heels to shoes. 2,163,252; June 20.
Woolley, Park. (See Bolinger, J. C., Howard, and Woolley.)
Worsell, Ernest T. (See Sassoon, M. T., and Worsell.)
Wren, John H., Los Angeles, Calif. Starting governed engines. 2,163,136; June 20.
Wright, George M., Woodham Ferrers, England, assignor to Radio Corporation of America. Radio receiver. 2,162,988; June 20.
Wright, Walter F. (See Dall, Edward D., assignor.)
Wuelker, Frank S., St. Louis, Mo., assignor to Laclede-Christy Clay Products Company. Drainage tile. 2,162,926; June 20.
Wuethrich, Adolph G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of barytes. 2,163,388; June 20.
Wurmser, Alphons V., West Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical measuring circuit. 2,162,874; June 20.
Yale & Towne Manufacturing Company, The. (See Raymond, Frank E., assignor.)
York Oil Burner Company. (See Olvitt, Harry C., assignor.)
York Safe and Lock Company. (See Laucks, S. F., and Sioberg, assignors.)
Youker, Malcolm P., assignor to Phillips Petroleum Company, Bartlesville Okla. Gas conversion process. 2,163,113; June 20.
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Switch control and indication system. 2,162,927; June 20.
Young, Lafe, and A. A. Boyle, Alton, Ill., assignors to Laclede Steel Company, St. Louis, Mo. Wire mill equipment. 2,163,389; June 20.
Youngberg, Walter K., Meriden, Conn. Game. 2,163,456; June 20.
Youngstown Foundry & Machine Company, The. (See Thomas, Lloyd R., assignor.)
Zavka, Mario, Terni, Italy, assignor to Ammonia Casale Società Anonima, Lugano-Massagno, Switzerland. Obtaning products of polymerization of acetylene. 2,163,223; June 20.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Keyboard transmitter. 2,163,302; June 20.
Zerbee, Louis J., Bellefontaine, Ohio. Chair. 2,163,078; June 20.
Ziegler, James C., Panama, C. Z. Student's control stick for airplanes. 2,163,114; June 20.
Zimmerman, Emery K. (See Harroun, R. W., and Zimmerman.)
Zmay, Constantine, Chicago, Ill. Roasting machine. 2,162,793; June 20.
Zwoyer, Ellsworth B. A., Perth Amboy, and A. L. Stillman, Plainfield, assignors to The General Fuel Briquette Corporation, Jersey City, N. J. Producing fuel briquettes. 2,162,989; June 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bearing for grease lubrication, Radial plane. N. A. Palmgren. Re. 21,124; June 20.
Eggs, Filtering. F. B. Lomax. Re. 21,122; June 20.
Landing gear for aircraft. A. P. de Seversky. Re. 21,120; June 20.
Picture apparatus, Talking motion. A. D. Lassiter. Re. 21,121; June 20.
Shoes, Taping and binding. E. N. Meck. Re. 21,123; June 20.
Switch. S. Ruppel. Re. 21,125; June 20.

LIST OF PLANT INVENTIONS

Rose plant. D. Aicardi. 332; June 20.
Rose plant. J. H. Nicolas. 331; June 20.

LIST OF DESIGN INVENTIONS

Beater. F. O. Holister and P. W. Wortman. 115,335; June 20.
Bird feeding station. P. Pueschel. 115,321; June 20.
Bottle. A. C. Burgund. 115,343; June 20.
Box, Powder. B. F. Conner. 115,331; June 20.
Bridge for ophthalmic mountings. E. M. Splaine. 115,302; June 20.
Brooch or similar article. A. Philippe. 115,294; June 20.
Brooch or similar article. A. Philippe. 115,297; June 20.
Burner. L. Jaros. 115,336; June 20.
Cabinet, Sink. J. R. Morgan. 115,316; June 20.
Cabinet, utility cabinet and book case, Combined radio. D. Dillon. 115,345; June 20.
Camera or similar article. B. Helzick. 115,313; June 20.
Case and stand, Combined display. H. J. Rask. 115,351; June 20.
Case or similar article, Vanity. D. H. Zell. 115,324; June 20.
Casing, Electric remote controller. L. J. Andres. 115,305–6; June 20.
Casing for suction cleaners or similar articles. H. Dreyfuss. 115,286; June 20.
Chain, Linked. R. Mantz. 115,346; June 20.
Clip or similar article. A. Philippe. 115,295–6; June 20.
Clock, Wall. P. Koch. 115,315; June 20.
Coat. B. Chalk. 115,358; June 20.
Coat, Woman's. N. H. Tobin. 115,365; June 20.
Dauber. M. H. Partridge. 115,317; June 20.
Desk unit, Combination. E. R. Posnack. 115,319–20; June 20.
Dispenser and support therefor, Combined liquid. G. Binon. 115,328; June 20.
Draft diverter for domestic water heaters or the like. C. H. Morrow. 115,338; June 20.
Dress. A. Brody. 115,355–6; June 20.
Dress. D. Crystal. 115,359; June 20.
Dress. J. M. Sterngold. 115,363; June 20.
Dress. M. Stone. 115,364; June 20.
Dress ensemble. A. Brody. 115,357; June 20.
Dress ensemble. L. Katz. 115,360; June 20.
Drive unit for use with hand tools, Power. R. B. Pealer. 115,318; June 20.
Earring or similar article. A. Philippe. 115,293; June 20.
Fabric, Textile. C. E. Forstmann. 115,372–4; June 20.
Fabric, Textile. I. Strauss. 115,367; June 20.
Fabric, Textile. I. Strauss. 115,376; June 20.
Fabric, Woven textile. L. Newman. 115,375; June 20.
Figure, Animal. T. R. Duncan. 115,311; June 20.
Frame, Bag. C. McLaughlin. 115,361; June 20.
Frame, Photographic contact printing. A. W. Breingan. 115,307; June 20.
Game board. W. Livingston and G. Freedman. 115,337; June 20.
Hat. H. Barty. 115,368; June 20.
Hat. M. J. Marks. 115,371; June 20.
Hoe. J. M. Council. 115,309; June 20.
Hood and fender, Combined automobile. P. A. Meyer. 115,348; June 20.
Kit or the like, Battery service. L. Edelmann. 115,312; June 20.
Kit or the like, Battery service. J. C. Thomas. 115,353; June 20.
Lamp, Adjustable. S. W. Rosenthal. 115,340; June 20.
Lamp or similar article, Bed. H. I. Albright. 115,325; June 20.
Lamp, Sun. P. N. Cloutier. 115,329; June 20.
Lens remover for automobile headlights. O. G. Hildebrand and G. Brabenec. 115,334; June 20.
Marker, Traffic. O. H. Hershman. 115,333; June 20.
Matzo. I. Streit. 115,322; June 20.
Medallion, Picture exhibiting. B. Hammer. 115,332; June 20.
Mop cloth. O. Muckenhirn. 115,339; June 20.
Muff or similar article. H. Block. 115,369; June 20.
Napkin. R. Rubino. 115,377; June 20.
Opener, Letter. M. C. Dellinger. 115,310; June 20.
Pencil or similar article, Mechanical. N. D. Fish. 115,288; June 20.
Plate or similar article. L. Pfuhl. 115,350; June 20.
Rack, Merchandise display. H. S. Pakula. 115,292; June 20.
Range. W. F. Rogers. 115,362; June 20.
Ring. M. H. Herzog. 115,289; June 20.
Ring, Finger. B. Axel. 115,283; June 20.
Ring, Finger. M. A. Reich. 115,300; June 20.
Roll warmer or the like. S. A. Platt. 115,298; June 20.
Shelf for a display rack. A. M. Evans. 115,287; June 20.
Shoe. M. Winkel and C. A. Julianelli. 115,323; June 20.
Signal controller for automotive vehicles, Direction indicating. H. R. Stuart. 115,341; June 20.
Slipper. E. A. Bickford. 115,327; June 20.
Stand, Merchandise display. J. F. Urbanek. 115,303; June 20.
Statuette. D. J. Conley. 115,330; June 20.
Stoker. V. F. Clark. 115,308; June 20.
Storage unit, Sterile glass. D. P. Caverly. 115,284; June 20.
Store front. H. L. Wyman. 115,304; June 20.
Stove. F. T. Herron. 115,314; June 20.
Strap attachment for a saxophone, Neck. H. N. White. 115,354; June 20.
Suit, Bathing. E. Mandel. 115,370; June 20.
Support, Fan. D. Chapman. 115,344; June 20.
Table or similar article. R. A. Conkling, Jr. 115,285; June 20.
Tank, Trailer. R. A. Bradley and R. D. George. 115,342; June 20.
Tool, Dental. E. L. Chott. 115,326; June 20.
Tray, Ash. F. G. Montgomery. 115,349; June 20.
Truck, Chambermaid's. E. R. Scudder. 115,352; June 20.
Vase or similar article. S. E. Hill. 115,290; June 20.
Vehicle, Highway. E. G. Mathauer. 115,347; June 20.
Veiling. S. H. Aibel. 115,366; June 20.
Wrench. A. G. Spexarth. 115,301; June 20.
Wrench, Tension. A. E. Price. 115,299; June 20.
X-ray unit. T. M. McDonald. 115,291; June 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abdominal reducer. A. Shatto and A. Jardot. 2,163,107; June 20.
Acid and preparing the same, Polycarboxylic. A. W. Ralston. 2,162,971; June 20.
Acid anhydrides, Production of volatile fatty. H. Schulz. 2,163,013; June 20.
Acid, Producing sulphuric. J. B. Castner. 2,163,371; June 20.
Acids and derivatives thereof, Manufacture of polymer carboxylic. K. Hamann. 2,163,238; June 20.
Acrylic and alkacrylic compounds, Polymerizing. H. R. Dittmar. 2,163,305; June 20.
Advertising display device. C. B. Graben. 2,162,915; June 20.
Agitator insert for stoker retorts. A. J. Raddatz. 2,163,291; June 20.
Air conditioning apparatus. M. N. Farr. 2,162,805; June 20.
Air conditioning system. L. A. Philipp. 2,162,860; June 20.
Air conditioning unit. H. R. Harding. 2,163,239; June 20.
Air control. Automatic emergency train line. J. W. Price. 2,163,519; June 20.
Air control for fluid fuel burners. H. C. Olvitt. 2,162,857; June 20.
Aircraft having rotative sustaining means. P. Cameron. 2,163,481–2; June 20.
Aircraft power plant. A. Lysholm. 2,162,956; June 20.
Aircraft, Rotary wing. O. von Asboth. 2,162,794; June 20.
Alarm timer, Repeating. H. E. Warren. 2,163,419; June 20.
Alcohols and hydroxyl acids, and sulphonated and hydrolized derivatives thereof, Sulphonated and acetylated. W. Schrauth. 2,163,133; June 20.
Alkali hydrates or carbonates and of aluminum hydroxide from the double silicates of alkali and alumina, Extraction of. R. S. Opatowski and P. Adamoli. 2,163,466; June 20.
Alkyl amide, Aliphatic mercurated. D. L. Tabern. 2,163,296; June 20.
Alkyl cyclohexanones and producing same. W. A. Lazier. 2,163,284; June 20.
Alkyl phenols, Desulphurizing. W. J. Hund, S. B. Thomas, and D. B. Luten, Jr. 2,163,227; June 20.
Alloy: *See*—
Lead alloy.
Alloys, Production of. P. P. Alexander. 2,163,224; June 20.
Alumina, Manufacture of abrasive. B. Barnes. 2,163,532; June 20.
Aluminum and making the same, Granular. G. F. Comstock and V. V. Efimoff. 2,162,938; June 20.
Amplifier. H. M. Owendoff. 2,162,744; June 20.
Amplifiers, Stabilization of image. K. Schlesinger. 2,163,219; June 20.
Amplifying system. C. F. Wiebusch. 2,162,986; June 20.
Amusement device. A. Bisch. 2,162,877; June 20.
Amusement device. A. Bisch. 2,163,360; June 20.
Amusement device. A. Novak. 2,163,348; June 20.
Analyzer plug. P. Kalencik. 2,163,201; June 20.
Anchor, Flange protecting rail. H. G. Warr. 2,163,209; June 20.
Anchor, Insert. R. P. Heckman. 2,163,446; June 20.
Antenna. A. T. Mace. 2,163,465; June 20.
Antenna for motor vehicles. M. Sharp. 2,163,471; June 20.
Apparatus for accurate pneumatic separation of particles of a mass. H. M. Sutton and E. G. Steele. 2,163,332; June 20.
Apparatus for cleaning and pumping oil wells. F. G. Beckman. 2,163,115; June 20.
Apparatus for filament coiling. R. B. Thomas. 2,163,565; June 20.
Apparatus for removing foreign material from air. J. D. Schmieg. 2,163,452; June 20.
Apparatus for trimming and joining the ends of fabric pieces. H. Corrall and J. Heggie. 2,163,304; June 20.
Apparel, Wearing. R. H. Guinzburg. 2,162,810; June 20.
Arc welding generator, Direct-current. E. E. Tisza, and J. Tyrner. 2,163,418; June 20.
Article, Making a multipiece. G. A. Lyon. 2,162,733; June 20.
Articles, Apparatus for cleaning metallic. R. Fritzsche and A. Bauer. 2,163,276; June 20.
Articles, as hats, from textile goods, Producing waterproof, form-retaining. H. Siber. 2,162,866; June 20.
Articles from powdered metals, Manufacture of. G. J. Comstock. 2,162,701; June 20.
Articles, Manufacturing sheet metal. G. A. Lyon. 2,163,005; June 20.
Articles with pouches, Manufacture of circular knitted. H. H. Holmes. 2,163,557; June 20.
Asphaltic sand rock composition and producing same. G. J. Hines. 2,162,720; June 20.
Assist strap. L. F. Schmidt. 2,163,106; June 20.
Atomizer, Pocket. R. C. Seyforth. 2,162,756; June 20.
Attitude control means for aircraft. A. Protzen. 2,162,862; June 20.
Automobile dump body and hoist. E. R. Barrett. 2,162,831; June 20.
Averaging device for observation instruments. T. L. Thurlow. 2,162,767; June 20.
Badminton bird. R. T. Collier. 2,163,236; June 20.
Baffle, Oil. A. C. Hess. 2,163,490; June 20.
Bag: *See*—
Vegetable bag.
Bag sealing machine. C. T. Hayes. 2,163,278; June 20.
Ball rolling game obstacle. D. E. Hooker. 2,163,122; June 20.
Band clamp. G. L. McKee. 2,163,048; June 20.
Band, Marking. W. D. Barker. 2,163,016; June 20.
Bar: *See*—
Grate bar.
Bar for doors, Metal safety. L. G. López. 2,163,206; June 20.
Barrel making machine. T. A. McMahon, W. Hierholzer, and W. Glazat. 2,163,344; June 20.
Barytes, Treatment of. A. G. Wuethrich. 2,163,388; June 20.
Base cleaner. M. Liebman. 2,162,955; June 20.
Basket cover fastener. P. Hintz and A. H. Schmidtke. 2,163,120; June 20.
Bathtub. A. Radimsky. 2,163,154; June 20.
Bearing. R. R. Searles. 2,162,977; June 20.
Beer wort, Making hopped. C. Rach. 2,163,468; June 20.
Bellows control device, Combination spring. D. L. Hay. 2,162,719; June 20.
Belt, Endless flexible. E. Nassimbene. 2,163,347; June 20.
Belt lacing setting device. J. C. Olsen. 2,162,787; June 20.
Beverage dispenser. D. H. Dolison and W. R. Kromer. 2,162,842; June 20.
Bitumen dispersions and making same. L. G. Gabriel and J. F. T. Blott. 2,163,445; June 20.
Blank feeding device. S. I. Johnson. 2,163,145; June 20.
Blasting device. A. J. Tomalis. 2,163,475; June 20.
Block: *See*—
Building block. Fuse block.
Block and wall assembly, Glass construction. E. J. Winship. 2,162,987; June 20.
Blower, Soot. E. Hahn. 2,163,489; June 20.
Bodies of plastic material, Apparatus for making hollow. E. V. C. Fejmert. 2,163,118; June 20.
Bolster, Railway car body. O. C. Duryea. 2,162,997; June 20.
Bomb sight. E. W. Chafee and H. Murtagh. 2,162,698; June 20.
Boron fluoride, Manufacturing. E. L. Baldeschwieler. 2,163,232; June 20.
Bottle and support therefor, Vacuum. A. H. Payson and C. O. Duevel, jr. 2,163,056; June 20.
Bottle cooler. P. Schlumbohm. 2,163,568; June 20.
Bottle holder. H. K. Powell. 2,163,290; June 20.
Bottles, jars, or the like containers, Apparatus for cleaning. T. E. Hill and N. C. Harrison. 2,162,951; June 20.
Bottles or the like and machine for effecting the same, Capping. J. H. Ramsey. 2,162,745; June 20.
Bow and sight therefor, Archery. J. R. Tate. 2,163,503; June 20.
Box press. L. E. Jones and H. L. Smith. 2,163,126; June 20.
Bracket. C. Cardillo. 2,163,511; June 20.
Brake: *See*—
Fluid pressure brake.
Brake actuating mechanism. B. Dick. 2,162,775; June 20.
Brake and carrier for ships' rudders. R. MacGregor. 2,162,917; June 20.
Brake arrangement. W. H. Baselt. 2,163,533–4; June 20.
Brake construction, Fluid. W. C. Shaw. 2,162,757; June 20.
Brake equalizing and control mechanism for vehicles, Four wheel. A. C. Mayes. 2,162,852; June 20.
Brake repair device, Coaster. E. Raines. 2,163,497; June 20.

Brake shoe. G. Gallo, G. B., F., and L. Bassi, and G. Calliera. 2,163,143; June 20.
Brake shoe. R. L. Wilson. 2,162,770; June 20.
Braun tube. B. Wienecke. 2,163,210; June 20.
Breaker reel. L. L. Ludington. 2,162,780; June 20.
Brick container. W. D. Magruder and G. L. Ecrement. 2,163,097; June 20.
Broach, Horizontal. W. A. Hart. 2,162,814; June 20.
Broach, Vertical. W. A. Hart. 2,162,813; June 20.
Brush, Fountain. F. J. Bambach. 2,162,907; June 20.
Bucket. P. J. Speicher and L. O. Stark. 2,163,501; June 20.
Bucket, Charging. J. C. Schweitzer. 2,163,386; June 20.
Building block, Self-locking. E. P. Marsan. 2,163,381; June 20.
Burial apparatus, Sectional. W. W. Haase. 2,163,171; June 20.
Burial device, Power operable. W. W. Haase. 2,163,172; June 20.
Burial device, Universal. W. W. Haase. 2,163,173; June 20.
Button-cutting machine. G. W. Hopkins. 2,163,338; June 20.
Button forming and wire inserting machine. L. C. Stringer. 2,163,071; June 20.
Button hand switch, Remote control dual. L. C. Stringer. 2,163,070; June 20.
Cable: *See*—
Electric cable.
Calculating device. A. Goldstein. 2,163,032; June 20.
Calf weaner. M. A. Snapp. 2,163,330; June 20.
Camera apparatus, Television. A. V. Bedford and K. J. Magnusson. 2,162,908; June 20.
Cameras, Range finder attachment for. M. Schwartz. 2,163,159; June 20.
Can with attached opener, Sealed. G. W. Darlington. 2,162,801; June 20.
Candlestick, Adjustable. E. Ager-Wick. 2,163,137; June 20.
Carbon production, Active. K. B. Stuart. 2,162,763; June 20.
Carbonating and bottle filling machine, Combination. W. E. Bostelmann. 2,163,267; June 20.
Carburetor. J. I. Brandon. 2,163,139; June 20.
Carburetor. W. Schwier. 2,163,499; June 20.
Card, Playing. W. Garrison. 2,162,946; June 20.
Carton and blank therefor. C. K. Lavere. 2,163,045; June 20.
Case: *See*—
Display case.
Case, especially for ladies' compacts, Pocket. M. Kaplan and G. Rosenberg. 2,163,429; June 20.
Catalogue or file, Multiple-leaf. H. D. Ralston and P. J. Gilbert. 2,162,972; June 20.
Catalyst regeneration. P. E. Kuhl. 2,162,893; June 20.
Cathode ray tube. J. E. Brown. 2,163,233; June 20.
Cathode ray tube. A. B. Du Mont. 2,163,256; June 20.
Cellulosic materials, Flameproofed. M. E. Cupery. 2,163,085; June 20.
Cement clinker, Production and cooling of. A. E. Douglass. 2,163,513; June 20.
Cementitious structure, Monolithic. E. B. White. 2,162,872; June 20.
Centrifugal pump. D. Llewellyn. 2,163,464; June 20.
Chain: *See*—
Vehicle track chain.
Chair. G. Thornton-Norris. 2,163,505; June 20.
Chair. L. J. Zerbee. 2,163,078; June 20.
Chair bedstead. K. R. Terschmann. 2,163,365; June 20.
Changeable sign. C. R. McGill. 2,163,128; June 20.
Charcoal production apparatus and process. R. Van Anderson. 2,162,991; June 20.
Chemical analyses, Device and process for performing. A. C. Seaton. 2,162,978; June 20.
Chemical apparatus. W. O. Geyer and H. A. Heyn. 2,163,555; June 20.
Chemical compound. P. L. Salzberg. 2,163,104; June 20.
Chemical process and products therefrom. E. W. Spangel. 2,163,109; June 20.
Chlorophyllian colored matter, Fixation of. V. C. E. Le Gloahec. 2,163,147; June 20.
Chute and valve. R. N. Riblet. 2,163,061; June 20.
Chute, Coin delivery. E. J. Brandt. 2,163,082; June 20.
Cigarette package. L. A. Schwartz. 2,163,326; June 20.
Cigarette rod forming mechanism. C. S. Stephano. 2,163,414; June 20.
Cinematograph apparatus. E. W. Hobbs. 2,163,092; June 20.
Circuit: *See*—
Control circuit.
Dynamic expansion circuit.
Electrical measuring circuit.
Television receiver circuit.
Volume control circuit.
Circuit and series resistance for indirectly heated cathodes. F. Schröter. 2,162,976; June 20.
Circuit breaker. J. H. Burnside, 2d. 2,162,935; June 20.
Circuit breaker. J. B. MacNeill. 2,163,558–9; June 20.
Circuit closer, Thermostatic. O. A. Sahlbom. 2,162,974; June 20.
Circuit for electrical relays, Control. P. H. Crago. 2,162,911; June 20.
Circuits, Automatic gain control. J. D. Brailsford. 2,162,878; June 20.
Clamp: *See*—
Band clamp.
Clamps, Applying pipe joint. C. E. Norton. 2,163,261; June 20.
Clasp, Collar. L. Madison. 2,162,959; June 20.
Clasp, Garment. E. E. Norton. 2,163,053; June 20.
Classification. H. L. McNeill. 2,163,285; June 20.
Cleaner: *See*—
Base cleaner.
Flue cleaner.
Cleaner for stovepipe drum ovens, Soot. G. H. Swearingen. 2,163,358; June 20.
Cleat. R. H. Hagerty. 2,163,089; June 20.
Clip for electric lighting fixtures, Hold-down. G. E. Oremus. 2,163,350; June 20.
Closure and container, Tamperproof. A. Schauer. 2,162,754; June 20.
Closure, Dispensing container. E. Frank. 2,162,999; June 20.
Closure for containers, Tamperproof. A. Schauer. 2,162,753; June 20.
Closure, Tamperproof. J. Hamberger. 2,162,711; June 20.
Closure, Tamperproof. J. Hamberger and A. Schauer. 2,162,713; June 20.
Closure, Tamperproof. A. Schauer. 2,162,752; June 20.
Clutch: *See*—
Fluid pressure clutch.
Torque controlled clutch.
Clutch. C. A. Neracher. 2,162,784; June 20.
Clutch. J. V. O. Palm. 2,163,152; June 20.
Clutch. W. S. Wolfram. 2,162,873; June 20.
Clutch actuating device. W. W. Foster. 2,163,028; June 20.
Clutch and turbo-torque converter, Fluid. B. H. England. 2,162,803; June 20.
Clutch control means. E. S. Bush. 2,163,021; June 20.
Coal cutting machine. J. F. Joy. 2,163,341; June 20.
Coaster. P. B. McConnell. 2,163,309; June 20.
Coating apparatus. W. L. MacKenzie. 2,162,781; June 20.
Coating process and product produced thereby, Water repellent. L. D. Anderson. 2,162,690; June 20.
Cobweb cut-out. A. D. Norcross. 2,162,896; June 20.
Coin sorting machine. E. B. Paul. 2,163,351; June 20.
Coin wrapping device. R. N. Bagley and F. M. Ralston. 2,163,509; June 20.
Color of a liquid, Method and apparatus for determining the. M. Philipsen. 2,163,467; June 20.
Color photography or cinematography. E. Sanders-Dolgoruki. 2,163,325; June 20.
Color producing compound and producing the same. E. A. Markush and J. Miller. 2,162,960; June 20.
Comb. H. W. Clemens. 2,163,084; June 20.
Combination lock, Button operated. G. H. Bruington. 2,162,995; June 20.
Compass accuracy in marine installations, Apparatus for maintaining. L. A. Crockett. 2,162,939; June 20.
Composition and making same. D. N. Spitzli and R. L. Kennedy. 2,162,924; June 20.
Compounds and products produced thereby, Polymerization of halogen containing unsaturated. H. W. Starkweather and A. M. Collins. 2,163,250; June 20.
Compressor and power cylinder, Combined. W. F. Boldt and B. Dick. 2,162,797; June 20.
Computing mechanism. R. Anschütz. 2,162,691; June 20.
Condensation products from formaldehyde and urea. O. Süssenguth. 2,163,264; June 20.
Condenser: *See*—
Electrical condenser.
Condenser. C. B. Tuley and J. W. McNulty. 2,162,871; June 20.
Condenser tubes and the like from corrosion salt deposition, Protecting. J. C. Bolinger, W. A. Howard, and P. Woolley. 2,162,933; June 20.
Condensers, Process and device for the production of electrolytic. B. Springer. 2,163,213; June 20.
Connection, Wrist watch and bracelet. F. S. Moody and L. R. Pauwels. 2,163,208; June 20.
Connector device, Shielded. O. Schneider. 2,163,412; June 20.
Container: *See*—
Brick container.
Display container.
Container. W. B. Massey. 2,162,853; June 20.
Container. J. H. Swan. 2,162,764; June 20.
Container and closure therefor. J. Hamberger. 2,162,712; June 20.
Container closure. E. R. Klemm, Jr. 2,163,042; June 20.
Container-sealing machine. C. Titchen and W. Boehl. 2,162,768; June 20.
Containers and the like, Manufacture of. L. Scusa and R. Kilian. 2,163,318; June 20.
Containers, Apparatus for and method of making thin metal. J. H. Friden. 2,162,776; June 20.
Containers, Method and apparatus for making. H. C. Fisher and J. F. Thompson. 2,163,316; June 20.
Containers, Production of sealed. R. W. von Sydow and W. E. Sooy. 2,163,317; June 20.
Continuous strip furnace. T. F. Baily. 2,162,692; June 20.
Control circuit, Receiver percentage modulation. P. O. Farnham. 2,162,882; June 20.

Control means for transmission mechanisms. W. H. Wolchek. 2,163,507; June 20.
Control mechanism for steam heating systems. I. C. Jennings. 2,162,952; June 20.
Control mechanism for variable throw hydraulic pumps. W. H. Boddy. 2,163,479; June 20.
Control shafts to predetermined angular positions, Turning. L. R. J. Leishman. 2,163,343; June 20.
Control system for train circuits. J. W. Logan, Jr. 2,163,400; June 20.
Conveying apparatus. H. S. Lenhart. 2,162,954; June 20.
Cooler. C. S. Kauffman. 2,163,491; June 20.
Copy holder. N. Dodds. 2,162,706; June 20.
Copyholder for photocopy machines. E. R. Sabel. 2,163,451; June 20.
Cotter pin. F. M. Guy. 2,162,811; June 20.
Cotton, Apparatus for magnetically cleaning. W. Kagan. 2,163,242; June 20.
Cotton picking machine. J. D. Rust. 2,162,750; June 20.
Coupling: *See*—
Two-way coupling.
Cover: *See*—
Thread cover.
Cover for kitchen ranges, Top. J. J. Lautz. 2,163,258; June 20.
Covering, Surface. M. L. Hamlin. 2,162,886; June 20.
Cowl, Chimney. P. J. Fitzgerald. 2,163,197; June 20.
Creeper. E. Arieti. 2,162,928; June 20.
Crozing machine. T. A. McMahon, W. Hierholzer, and W. Glazat. 2,163,345; June 20.
Crystalline proteolytic enzymes, Production of stabilized. R. T. Major and A. Walti. 2,162,737; June 20.
Cup, Adjustable measuring. C. R. Ouellette. 2,163,364; June 20.
Curler, Hair. L. Eisenman. 2,163,226; June 20.
Curler, Hair. I. L. Wolkow. 2,163,112; June 20.
Cut-out device, Automatic. S. F. Stewart. 2,163,502; June 20.
Decolorizing composition, Preparing a synthetic. L. Caldwell. 2,163,526; June 20.
Decorative means for receptacles and applying same. E. H. Moseley. 2,163,151; June 20.
Decoy duck. A. A. Oeding. 2,162,786; June 20.
Dental floss adjuster. E. E. Shepard. 2,163,500; June 20.
Denture, Making a. W. A. Voigt. 2,163,014; June 20.
Detonating compositions. E. Scholz. 2,163,498; June 20.
Developer for off-set or contact film and plate negatives, Nonoxidizing and nondeteriorating. L. Tarnoff. 2,162,765; June 20.
Device for displaying wearing apparel. P. F. McAuliffe and R. B. Randell. 2,162,919; June 20.
Device for filling pneumatic injection syringes. C. Hofmann. 2,163,240; June 20.
Device for indicating the undercover temperature in a bed. S. K. Meyer. 2,163,050; June 20.
Die: *See*—
Traveling rotary die.
Die-forming parts, Method of. G. A. Lyon. 2,163,003; June 20.
Die-forming parts, Method of and apparatus for. G. A. Lyon. 2,162,731; June 20.
Direct-current generator for arc welding. E. E. Tisza and J. Tyrner. 2,163,417; June 20.
Direct current motor. F. Lauck. 2,163,528; June 20.
Directional indication and control. L. de Florez. 2,162,940; June 20.
Dispenser: *See*—
Beverage dispenser.
Pressure grease dispenser.
Twine dispenser.
Dispensing apparatus. G. A. Blake. 2,163,081; June 20.
Display background construction. H. H. Moore. 2,163,259; June 20.
Display case. T. J. Pilliod and F. C. H. Müller. 2,163,008; June 20.
Display container. M. H. Baldwin. 2,163,138; June 20.
Display device. S. Fisher. 2,162,998; June 20.
Display device. P. Rosenblatt. 2,162,897; June 20.
Display device. C. J. Sipior. 2,163,329; June 20.
Display device. E. Whitmyre. 2,163,523; June 20.
Display fixture. H. A. Jenkins. 2,163,093; June 20.
Door control, System of automobile. L. C. Ruska. 2,162,749; June 20.
Door hanger, Garage. A. L. Clark. 2,163,394; June 20.
Door lock. F. G. G. Armstrong. 2,162,929; June 20.
Door lock. J. Holtzman. 2,163,121; June 20.
Door locking system and mechanism, Automobile. E. D. Dall. 2,162,703; June 20.
Double mosaic screen. B. Bartels. 2,163,266; June 20.
Dowel assembly for paving joints. B. F. Friberg. 2,163,397; June 20.
Dressing mechanism for grinding wheels. A. H. Candee and G. O. Richmond. 2,162,836; June 20.
D-ribose from calcium D-altronate, Production of. C. S. Hudson and N. K. Richtmyer. 2,162,721; June 20.
Drier: *See*—
Pellet drier.
Rotary drier.
Drilling valve. J. S. Abercrombie and H. Allen. 2,162,990; June 20.
Driving elements and the article produced thereby, Connecting. H. D. Adams. 2,162,902; June 20.
Dropper service. S. L. Barnes. 2,163,367; June 20.
Dye units and component parts thereof, Making. O. Knebel. 2,163,229; June 20.
Dyestuffs, Azo. F. Suckfüll. 2,163,251; June 20.
Dyestuffs, Indigoid. E. Kambli. 2,163,094; June 20.
Dyestuffs insoluble in water and fiber dyed therewith, Azo. E. Thoma and W. Seidenfaden. 2,163,073–4; June 20.
Dynamic expansion circuit. H. Bartels and G. Ulbricht. 2,162,875; June 20.
Dynamo-electric machine, Permanent magnet. F. Plötz. 2,163,496; June 20.
Earth moving device. E. W. Austin. 2,162,993; June 20.
Educational device. C. C. Taylor. 2,162,766; June 20.
Electric cable. C. L. Chatham. 2,163,235; June 20.
Electric condensers, Making. F. Weiss. 2,162,925; June 20.
Eletric heater. A. H. Happe. 2,163,036; June 20.
Electric switch. E. J. Mastney. 2,162,895; June 20.
Electrical condenser. J. A. Flanzer. 2,163,237; June 20.
Electrical conductor, Insulated. R. B. Lattin. 2,162,953; June 20.
Electrical make and break contact. A. C. Schmidt and J. F. Jack. 2,163,354; June 20.
Electrical measuring circuit. A. V. Wurmser. 2,162,874; June 20.
Electrode, Kerr cell. S. L. Clothier and H. C. Hogencamp. 2,163,551; June 20.
Electrode structure for television transmitting tubes. J. Gallup. 2,162,808; June 20.
Electrolytic cell. H. E. Rhodes. 2,163,262; June 20.
Electrolytic device. G. K. Sziklai. 2,163,416; June 20.
Electron discharge apparatus. A. L. Samuel. 2,163,247; June 20.
Electron discharge device. F. Coeterier. 2,163,270; June 20.
Electron discharge device. A. L. Samuel. 2,163,156–7; June 20.
Electrothermic production of boron carbide. F. Schroll and A. Vogt. 2,163,293; June 20.
Electrotype plates, Method of and apparatus for making. E. R. Richards. 2,162,825; June 20.
Elevator of the endless band type. E. Roth. 2,163,353; June 20.
Enclosed arc lamp. G. E. Inman. 2,163,428; June 20.
End gripper for cloth laying machines. M. Breth. 2,162,789; June 20.
Engine: *See*—
Explosive engine.
Internal combustion engine.
Engine. R. K. Lee. 2,162,817; June 20.
Engine assembly, Multicylinder. L. R. Spencer. 2,163,357; June 20.
Engines, Starting governed. J. H. Wren. 2,163,136; June 20.
Engraving apparatus. E. J. Cook. 2,163,271; June 20.
Envelope. M. Kahn. 2,163,041; June 20.
Envelope. K. MacDonald. 2,162,958; June 20.
Envelope opening machine. E. J. Dummer and A. Gay. 2,163,026; June 20.
Envelopes, Manufacture of dry-sealing. V. E. Heywood. 2,163,037–8; June 20.
Erasing device. E. Bernier. 2,163,018; June 20.
Esters, Making cyclic. W. H. Carothers and J. W. Hill. 2,163,268; June 20.
Evaporator. W. W. Higham. 2,163,175; June 20.
Explosive. L. S. Byers. 2,162,910; June 20.
Explosive engine. M. Niemi. 2,163,052; June 20.
Eyeglass mounting. E. H. Smythe. 2,162,900; June 20.
Fabric: *See*—
Machine-knit fabric.
Pile fabric.
Fabric and manufacturing the same, Sponge rubber coated. J. Pennel and J. Flipo. 2,163,289; June 20.
Fabric structures, Method of and apparatus for forming. A. Martin. 2,162,818; June 20.
Fabrics, Manufacture of pile. R. W. Kent. 2,162,778; June 20.
Fastener: *See*—
Basket cover fastener.
Garter fastener.
Slide fastener.
Fastening device. W. A. Semion. 2,163,134; June 20.
Feed material, Preparing. A. A. Levinson and J. L. Dickinson. 2,162,729; June 20.
Feeder: *See*—
Poultry feeder.
Feeding apparatus and automatic control therefor, Chemical. G. Raymond. 2,163,436; June 20.
Felt making process. P. Drewsen. 2,162,943; June 20.
Fertilization for vegetation. L. Rosenstein. 2,163,065; June 20.
Fertilizer distributor. A. C. Mayfield. 2,162,689; June 20.
File storage structure. J. W. Coombs. 2,163,484; June 20.
Film, Method of and apparatus for scanning motion picture. S. L. Clothier and H. C. Hogencamp. 2,163,543; June 20.
Film, Processing motion picture. F. W. Cage. 2,163,029; June 20.
Film scanning apparatus and method. S. L. Clothier and H. C. Hogencamp. 2,163,544; June 20.
Film scanning, Motion picture. S. L. Clothier and H. C. Hogencamp. 2,163,539; June 20.
Filter for tobacco smoking pipes, cigarette and cigar holders. J. A. Kostamo. 2,163,432; June 20.

Finding for a pin stem joint or catch and making the same. E. Morehouse. 2,162,820; June 20.
Finish for walls. L. Polak. 2,162,861; June 20.
Firearm. V. Holek. 2,163,144; June 20.
Fire extinguisher. E. H. Warr, B. H. Stotter, and F. C. Russell. 2,163,477; June 20.
Fishline bobber. W. H. Parmenter. 2,162,821; June 20.
Fish lure, Artificial. A. Horvath. 2,163,378; June 20.
Fish lure. F. A. Ozburn. 2,162,966; June 20.
Fish, Means for catching. K. Hovden. 2,163,282; June 20.
Fish spreader, Folding. J. Mindek, Jr. 2,162,739; June 20.
Fitting, Vibration dampening. C. M. Hamblin. 2,162,714; June 20.
Fitting, Waste. C. F. Schultis. 2,163,453; June 20.
Flash lamp. C. Korver. 2,162,847; June 20.
Flatiron, Electric. S. Marvin. 2,162,918; June 20.
Float. C. J. Carlisle. 2,163,483; June 20.
Float gear mounting. J. R. Gehr. 2,163,030; June 20.
Flooring construction. H. S. Nagin. 2,162,742; June 20.
Flue cleaner. E. W. Stevens. 2,163,384; June 20.
Fluid compressor. B. S. Aikman. 2,163,391; June 20.
Fluid heater. C. F. Denney. 2,162,941; June 20.
Fluid pressure brake. E. P. Gosling and F. J. Bittermann. 2,163,034; June 20.
Fluid pressure clutch. E. P. Gosling and F. J. Bittermann. 2,163,033; June 20.
Fodder, Siloing green. F. Schmidt. 2,162,922; June 20.
Follower for card files. W. M. Gerkey. 2,163,319; June 20.
Food product. L. Wickenden and W. Baptiste. 2,163,164; June 20.
Force feed lubricator. J. C. McCune. 2,163,433; June 20.
Form, Concrete. L. W. Westcott. 2,163,222; June 20.
Form structure for concrete walls. A. H. Symons. 2,162,869; June 20.
Forming machine for glass bottles, jars, and the like. T. F. Pearson. 2,163,103; June 20.
Foundry mold. W. W. Cooper. 2,163,373; June 20.
Fountain pump. M. E. Davis. 2,163,194; June 20.
Frequency changer. C. E. Fay. 2,162,806; June 20.
Frequency control, Automatic. N. P. Case. 2,163,234; June 20.
Frequency control system, Automatic. D. E. Foster. 2,162,883; June 20.
Front operated switch. R. N. Rowe. 2,163,230; June 20.
Fuel briquettes, Producing. E. B. A. Zwoyer and A. L. Stillman. 2,162,980; June 20.
Fuel evaporating device for internal combustion engines. R. Wehinger. 2,163,522; June 20.
Fuel feeding and distributing mechanism for internal combustion engines. W. Clark. 2,163,458; June 20.
Fuel in internal combustion engines, Method and apparatus for utilization of low grade. H. H. Huber. 2,163,241; June 20.
Fuel injection pump. W. Voit. 2,163,313; June 20.
Fuel, Treatment of motor. J. A. Chenicek. 2,163,269; June 20.
Furnace: *See*—
Continuous strip furnace.
Furnace and using the same, Glass melting. E. C. Sullivan. 2,162,983; June 20.
Furniture. A. Schmidt. 2,162,975; June 20.
Fuse block. M. G. Dahl. 2,163,460; June 20.
Game. C. P. Schaub. 2,163,011; June 20.
Game. G. F. Wolfe. 2,163,478; June 20.
Game. W. K. Youngberg. 2,163,456; June 20.
Game apparatus, Board. W. I. Barton. 2,162,876; June 20.
Garment. W. J. Jones. 2,162,697; June 20.
Garment hanger. G. W. Dear and R. L. Thompson. 2,163,485; June 20.
Garment hanger, Safety. J. H. Beckmann. 2,162,796; June 20.
Garment, Protective. A. E. Kennedy. 2,163,463; June 20.
Garter fastener. E. J. Schuhmacher. 2,163,521; June 20.
Gas conversion process. M. P. Youker. 2,163,113; June 20.
Gas holder, Water sealed. L. A. Wilkin. 2,163,076; June 20.
Gas-washing apparatus. A. J. Ebner. 2,163,141; June 20.
Gaseous mixture, Separation and purification of. H. A. Gollmar. 2,163,169; June 20.
Gases and vapors, Cracking hydrocarbon. S. A. Guerrieri. 2,163,170; June 20.
Gases, Purification of. A. N. Cole and A. L. Tannehill. 2,162,838; June 20.
Gear construction. J. Hartmann. 2,163,277; June 20.
Gear device for automobile vehicles, Hydraulic change. A. Kégresse. 2,163,202; June 20.
Gearing, Vehicle transmission. F. W. Cotterman. 2,163,192; June 20.
Generator: See—
Arc welding generator. Water-gas generator.
Relaxation oscillation generator.
Generators, Parallel operation of marine. H. C. Coleman and C. Lynn. 2,163,140; June 20.
Glare eliminator. C. B. Shreve. 2,162,791; June 20.
Glass tank. J. H. McKelvey and J. W. Rogers. 2,163,405; June 20.
Glassware by gob dropping, Method and apparatus for forming large mass. A. C. Crimmel. 2,162,800; June 20.
Glass with metal, Coating. R. D. Smith. 2,162,980; June 20.
Gluing machine. R. Minkow. 2,162,854; June 20.
Gold from solutions, Recovering. H. Burrell. 2,162,936; June 20.
Grass catching and distributing device. A. F. Moyer. 2,162,783; June 20.
Grate bar. W. H. Moriarty. 2,162,741; June 20.
Grinding apparatus. L. J. Bazzoni. 2,162,795; June 20.
Grinding device. J. Emerson. 2,163,425; June 20.
Grinding machine. G. F. Maglott. 2,163,246; June 20.
Grinding machine, Spiral. W. Shotey. 2,162,758; June 20.
Grinding wheel reciprocating mechanism. A. C. Abrams. 2,163,443; June 20.
Guard, Machinery. A. Simon. 2,163,473; June 20.
Guard, Wheel. R. W. Harroun and E. K. Zimmerman. 2,163,321; June 20.
Hair curling device. L. G. Arpin. 2,163,524; June 20.
Hair dyeing composition and method. W. Kritchevsky. 2,163,043; June 20.
Hair waver, Permanent. C. de la Garza. 2,163,375; June 20.
Halogen-alkyl amines or their salts, Producing. H. Ulrich, E. Ploetz, and M. Bögemann. 2,163,181; June 20.
Handle: *See*—
Utensil handle. Welder handle.
Handle for doors, windows, and the like, Operating. R. W. Newton. 2,163,101; June 20.
Hanger: *See*—
Door hanger. Garment hanger.
Hanger for trousers. G. Subick. 2,163,295; June 20.
Hat brim curling method and apparatus. E. W. Kimber and P. P. McManus. 2,163,379; June 20.
Heat exchange element, Making a. A. J. Berg and J. O. Huse. 2,162,693; June 20.
Heat exchanging element, Making a. A. J. Berg and J. O. Huse. 2,162,694; June 20.
Heated steering wheel. L. B. Preble. 2,163,450; June 20.
Heater: *See*—
Electric heater. Water heater.
Fluid heater.
Heater for generating boiling water. G. Hegwein. 2,162,950; June 20.
Heater with combustion shaft arranged outside the heater casing, Regenerative gas. W. Linder. 2,163,149; June 20.
Heating plate, Electric. E. Challet. 2,163,457; June 20.
Heating unit. H. D. Dufault. 2,163,552; June 20.
Heel-attaching machine. J. W. Pratt and T. A. Kestell. 2,162,824; June 20.
Heels to shoes, Attaching. H. B. Wood. 2,163,252; June 20.
Hinge mechanism. E. E. Howe. 2,163,323; June 20.
Holder: *See*—
Bottle holder. Indexing work holder.
Copy holder. Lipstick holder.
Gas holder. Pencil holder.
Holder for paper matches. R. C. Read. 2,162,921; June 20.
Hoofs of animals, Means or device for protecting the. F. P. Ford, A. C. Cope, and A. G. H. Gough. 2,163,361; June 20.
Hull spray reducing construction. W. S. Diehl. 2,162,705; June 20.
Humidifier. W. H. Sloan. 2,163,474; June 20.
Hydraulic supply of rotating systems. A. Kégresse. 2,163,203; June 20.
Hydraulic transmission. E. K. Benedek. 2,163,079; June 20.
Hydraulic water and oil pump. D. W. and D. C. Richards. 2,162,748; June 20.
Hydrocarbon distillates, Refining. W. C. Ault and C. A. Hochwalt. 2,162,992; June 20.
Hydrocarbons and making same, Thiocarbonated-chloraliphatic. H. G. Berger, R. C. Moran, and F. M. Seger. 2,163,535; June 20.
Hydrocarbons and preparing the same, Cyclic substituted dichlorinated aliphatic. A. W. Ralston and C. W. Christensen. 2,162,970; June 20.
Hydrogen peroxide, Making. L. H Dawsey. 2,162,996; June 20.
Ice creeper. E. A. Castetter. 2,163,512; June 20.
Ignition device for gas burners, Catalytic. A. B. Densham. 2,163,395; June 20.
Illuminated sign, Interchangeable. C. J. Wanner. 2,163,298; June 20.
Illuminating and advertising device for showcases. J. T. Putnam and E. G. Shure. 2,163,562; June 20.
Illumination. H. Deschere. 2,163,272–3; June 20.
Impedances, Method and apparatus for measuring non-linear. M. A. Logan. 2,162,894; June 20.
Incubator-hatcher. G. T. Markey. 2,163,363; June 20.
Indexing work holder. J. K. Nitsch. 2,162,856; June 20.
Indicator. S. Findlater. 2,163,196; June 20.
Inductance device, Variable. F. Otto. 2,163,448; June 20.
Induction system for internal combustion engines. E. R. Jacoby. 2,163,040; June 20.

Ink fountain. J. L. Blackley. 2,163,335; June 20.
Inker throw-off. C. W. Harrold and A. S. Harris. 2,162,812; June 20.
Inkwell. L. A. Paul. 2,162,920; June 20.
Insulating material, Bonded fibrous. J. H. Gregory. 2,163,567; June 20.
Internal combustion engine, Rotary. W. Lister. 2,162,851; June 20.
Jack: *See*—
Lifting jack.
Keyboard transmitter. W. J. Zenner. 2,163,302; June 20.
Knitting machine, Circular. I. W. Grothey. 2,163,461; June 20.
Knitting machine, Flatwork. P. G. Stroud. 2,162,982; June 20.
Lamp: *See*—
Enclosed arc lamp. Flash lamp.
Lamps and the like, Apparatus for the manufacture of. E. E. Novotny. 2,163,177; June 20.
Lapel reinforcement. K. von Däniken. 2,163,333; June 20.
Lapping machine. S. M. Shaw. 2,163,438; June 20.
Latch and lock. S. Hart. 2,163,307; June 20.
Lead alloy. J. O. Betterton and Y. E. Lebedeff. 2,163,368–9; June 20.
Leaf spring lubricator. H. H. Hasche. 2,162,718; June 20.
Lens and making the same, Multifocal. A. Pellow. 2,163,130; June 20.
Lifting jack. D. J. Bissell. 2,162,931; June 20.
Light modulating cell and electrode therefor. S. L. Clothier and H. C. Hogencamp. 2,163,549; June 20.
Light modulator, Multiple cell. S. L. Clothier and H. C. Hogencamp. 2,163,550; June 20.
Lighting fixture. A. L. Arenberg. 2,163,225; June 20.
Lining, Journal bearing. R. J. Harry. 2,163,090; June 20.
Lipstick holder. P. A. Sechrist. 2,163,355; June 20.
Liquid motor. C. K. Bassett. 2,163,444; June 20.
Lock: *See*—
Combination lock. Door lock.
Lock. J. F. Thomas. 2,162,984; June 20.
Lock mechanism. E. D. Dall. 2,162,702; June 20.
Lock mechanism. E. D. Dall. 2,162,704; June 20.
Locking device. H. E. Landis. 2,162,849; June 20.
Locking means for covers for water boxes. T. E. Bart. 2,162,930; June 20.
Lubricating device for valve devices. E. E. Hewitt. 2,163,399; June 20.
Lubricating system for rotary brake valves. C. A. Campbell. 2,163,189; June 20.
Lubrication apparatus. F. C. Blanchard. 2,162,932; June 20.
Lubricator: *See*—
Force feed lubricator. Rail and wheel flange lubricator.
Leaf spring lubricator.
Luggage. H. Derman. 2,163,116; June 20.
Luminous exhibitor, Remotely controlled. A. Bosché. 2,163,188; June 20.
Machine for making corrugated articles. H. W. Romanoff. 2,163,063; June 20.
Machine for manufacturing bag tubes. H. E. Townsend. 2,163,265; June 20.
Machine for marking leather and the like. H. E. Kleinschmidt. 2,163,494; June 20.
Machine-knit fabric. D. H. Cavanaugh. 2,162,837; June 20.
Magazine, Film. E. S. Porter. 2,163,179; June 20.
Magnesium by the electrolysis of its fused chloride, Preparation of. C. de Rohden. 2,162,942; June 20.
Magnetic unit. L. H. Wadsworth. 2,163,161; June 20.
Magnetron. K. Fritz. 2,162,807; June 20.
Mains supply apparatus. K. Schlesinger. 2,163,218; June 20.
Malt-enzyme extraction in beer making. E. Heimann. 2,163,200; June 20.
Manhole structure. H. F. Slocum. 2,163,221; June 20.
Manifold valve. L. C. Roney. 2,163,132; June 20.
Manifolding appliance. W. O. Critchfield. 2,163,193; June 20.
Marker, Road. O. J. Morrison. 2,163,346; June 20.
Match. W. Pratt. 2,163,009; June 20.
Material and bearing, Bearing. H. F. Horne and E. R. Perry. 2,162,890; June 20.
Material and of decolorizing liquids therewith, Preparing a decolorizing. L. Caldwell. 2,163,527; June 20.
Material, Apparatus for applying and securing strip. L. Q. Presby. 2,163,059; June 20.
Material, Coated sheet. F. E. Williams. 2,162,769; June 20.
Material, Expansion joint. A. C. Fischer. 2,163,553; June 20.
Material into normally liquid hydrocarbon material, Converting gaseous hydrocarbon. J. R. Rose. 2,163,155; June 20.
Material, Manufacture of porous building. S. Missoten. 2,163,207; June 20.
Material, Preparing a decolorizing. L. Caldwell. 2,163,525; June 20.
Materials, Dyeing and finishing textile. L. A. Lantz and W. S. Miller. 2,163,204; June 20.
Materials, Treatment of organic. H. Dreyfus, R. W. Moncrieff, and F. B. Hill. 2,162,881; June 20.
Measuring apparatus. R. C. Mason. 2,163,402; June 20.
Measuring errors of aiming and firing in practice firing against moving targets, Apparatus for. F. E. Fischer. 2,162,707; June 20.
Measuring instrument. J. I. Cierpial. 2,163,023; June 20.
Meat-tendering machine. L. C. Huse. 2,163,123; June 20.
Merchandise dispensing device. B. T. Hibshman. 2,163,280; June 20.
Mercury cathode discharge tube. H. Lems and C. B. Los. 2,162,850; June 20.
Metal bending machine, Sheet. J. H. Nelson, Jr. 2,162,855; June 20.
Metallic objects, Apparatus and method for detecting defects in. R. Gunn. 2,162,710; June 20.
Metallization by cathode disintegration. W. Burkhardt and R. Reinecke. 2,163,480; June 20.
Metals and other substances from aqueous liquids, Apparatus for recovering. E. L. Brinker and H. J. Gray. 2,162,909; June 20.
Metals, Apparatus for producing colloidal suspensions of. D. M. Phillippi and J. E. Wilson. 2,162,823; June 20.
Metals, Method and apparatus for the melting of. H. E. Burke, C. J. Frey, and R. B. Gray. 2,163,508; June 20.
Meter: *See*—
Optical light exposure meter.
Mining machine. J. F. Joy and C. P. Baldwin. 2,162,722; June 20.
Mirror, Hand. J. Komorous. 2,163,001; June 20.
Modulation control circuit, Receiver subaudible. A. F. Van Dyck. 2,162,901; June 20.
Mold: *See*—
Foundry mold.
Mold coating mechanism for metallic centrifugal pipe molds. H. W. Stuart and H. S. Hunt. 2,162,829; June 20.
Motor: *See*—
Direct current motor. Liquid motor.
Motor. E. O. Winans. 2,162,771; June 20.
Musical system. A. A. Kucher. 2,163,096; June 20.
N-methyl beta hydroxy ethylamines, Preparing. R. W. Maxwell. 2,163,099; June 20.
Nailing machine. F. L. Brandt. 2,162,798; June 20.
Necktie smoother and stretcher. A. Ries. 2,162,826; June 20.
Nicotine from tobacco, Extracting. C. E. McCoy. 2,162,738; June 20.
Nodulizing apparatus. K. Middelboe. 2,162,782; June 20.
Nonarcing selector switch, High voltage. L. C. Stringer. 2,163,069; June 20.
Nonskid device. D. S. Kennedy. 2,163,493; June 20.
Oil and gas separator. E. C. Kopp. 2,163,095; June 20.
Oil composition, Spray. J. R. Allison. 2,162,904; June 20.
Oil, Conversion of hydrocarbon. J. W. Gray. 2,163,306; June 20.
Oil pilot device. K. S. Jenson. 2,162,844; June 20.
Oil refining apparatus. H. A. Meissner. 2,163,150; June 20.
Oil saver, Tubing. J. E. Shaffer. 2,163,327; June 20.
Oil, Treating hydrocarbon. W. A. Schulze. 2,163,312; June 20.
Oils, Desulphurizing mineral. D. S. McKittrick. 2,162,963; June 20.
Oils, Reclaiming mineral. W. Schrauth. 2,163,563; June 20.
Oils, Refining mineral. E. Terres, E. Saegebarth, J. Moos, and H. Ramser. 2,163,564; June 20.
Oils, Treatment of hydrocarbon. B. J. Flock and E. F. Nelson. 2,163,275; June 20.
Olefines in the presence of heteropoly compounds, Hydrating. J. F. Eversole and C. W. Rehm. 2,162,913; June 20.
Opacifying agents for enamels and glazes. L. Weiss. 2,163,334; June 20.
Opener and holder, Can. H. C. Will. 2,163,301; June 20.
Optical light exposure meter. A. Leber. 2,163,205; June 20.
Orifice construction. M. Noble. 2,163,382; June 20.
Orthopedics. D. F. Hyland. 2,162,916; June 20.
Oscillator, Stabilized. L. A. Meacham. 2,163,403; June 20.
Oscillograph apparatus. H. J. Schrader. 2,162,827; June 20.
Oven, Coke. F. Breitbach. 2,162,834; June 20.
Oven, Coking retort. J. Becker. 2,163,168; June 20.
Package. D. Ray. 2,163,060; June 20.
Package and part thereof. B. D. Brown. 2,162,880; June 20.
Package for food products and the like. S. H. Berch. 2,163,017; June 20.
Pad: *See*—
Shoulder pad. Toe pad.
Padlock. F. E. Raymond. 2,163,311; June 20.
Parasiticidal compositions. W. B. Parker. 2,163,560; June 20.
Parts, Joining. G. A. Lyon. 2,162,734; June 20.
Pellet drier. H. L. Glaze. 2,163,556; June 20.
Pencil holder. D. C. Feather. 2,162,914; June 20.

Pencil, Interchangeable lead. K. Fend. 2,163,515; June 20.
Pencil pointer, Backhand. B. K. Dobkowitz. 2,163,025; June 20.
Pen-cleaning device. B. W. Sewell. 2,162,865; June 20.
Perinaphthindandiones, Substituted. F. Straub and P. Pieth. 2,163,110; June 20.
Perishables, Method and apparatus for refrigerating. H. H. Goalstone. 2,163,031; June 20.
Petroleum distillate, Refining cracked. W. T. Hancock. 2,162,715–17; June 20.
Phonograph. R. M. Somers. 2,162,981; June 20.
Photographic developer. G. Wilmanns, W. Schneider, and B. Wendt. 2,163,166; June 20.
Photosculpture. S. T. Jeffreys and H. J. Petty. 2,163,124–5; June 20.
Phototube. M. C. Teves and F. M. Penning. 2,162,792; June 20.
Pickling. A. M. Kirchner and H. E. Romine. 2,162,846; June 20.
Picture system, Color motion. R. F. Thieme. 2,163,530; June 20.
Pigments, Calcium sulphate. R. W. Sullivan. 2,163,385; June 20.
Pile fabric. H. L. Shuttleworth. 2,163,135; June 20.
Pin: *See*—
Cotter pin.
Pin lifting implement. L. F. Schipper. 2,163,105; June 20.
Piston, Composite. C. E. Summers. 2,162,830; June 20.
Piston, Pump. G. C. Wells. 2,163,162; June 20.
Plastic composition. J. A. Kenney. 2,163,243; June 20.
Plug: *See*—
Analyzer plug. Sparking plug.
Safety plug.
Pointer setting mechanism. I. R. Farnham and R. J. Jnuch. 2,163,376; June 20.
Polishing pad package and preparing same. L. B. and E. A. Leavitt. 2,163,046; June 20.
Poultry feeder. A. J. Bergeron. 2,163,186; June 20.
Pouncing machine and method of pouncing. P. Schultze. 2,163,383; June 20.
Power attachment for burial devices. W. W. Haase. 2,163,174; June 20.
Power plant for motor vehicles. J. G. Vincent. 2,163,476; June 20.
Power plant, Hydroelectric. H. Odili. 2,163,102; June 20.
Power take-off. H. W. Simpson. 2,162,979; June 20.
Power transmission. C. A. Neracher and W. T. Dunn. 2,162,785; June 20.
Power transmission. H. F. Patterson. 2,162,788; June 20.
Power transmission. L. D. Searcy. 2,163,066; June 20.
Press: *See*—
Box press. Proof press.
Printing press. Upright printing press.
Press for the flawless deforming of flat blanks. L. Oeckl and E. Müller. 2,163,517; June 20.
Pressure grease dispenser. A. A. Abbott. 2,163,366; June 20.
Pressure regulator. R. W. Leutwiler and W. Eichholz. 2,162,779; June 20.
Print reproducing table. H. F. Riesenkönig. 2,163,062; June 20.
Printing press. C. S. Crafts. 2,163,374; June 20.
Printing telegraph apparatus. A. H. Reiber. 2,162,790; June 20.
Printing telegraph exchange system. F. S. Kinkead. 2,163,431; June 20.
Processing machine. L. R. Thomas. 2,163,504; June 20.
Products of acid-resistant composition, Molding. R. H. Rector. 2,162,747; June 20.
Products of polymerization of acetylene, Obtaining. M. Zavka. 2,163,223; June 20.
Projector and sound reproducer, Combined motion picture. L. J. Simons. 2,163,263; June 20.
Proof press. J. E. Lee and F. Barney. 2,162,816; June 20.
Protective device for electric circuits. L. O. Grondahl. 2,162,949; June 20.
Protector: *See*—
Stocking protector.
Pump: *See*—
Centrifugal pump. Hydraulic water and oil pump.
Fountain pump.
Fuel injection pump.
Pump. G. Nisula. 2,163,287; June 20.
Pump or motor, Multistage. E. K. Benedek. 2,163,080; June 20.
Pumps, Controlling feed water. H. Hillier. 2,163,281; June 20.
Rack for magazines and the like. F. D. Farr. 2,163,027; June 20.
Radio receiver. G. M. Wright. 2,162,988; June 20.
Rail and wheel flange lubricator. E. Overmier and T. E. Rodman. 2,163,288; June 20.
Rail flow detector mechanism. H. C. Drake. 2,163,424; June 20.
Railway vehicle. E. G. Hallquist and W. M. Sheehan. 2,163,257; June 20.
Rake, Garden. N. Caramanico. 2,163,421; June 20.
Razor, Motor driven. B. R. Nyhagen. 2,163,406; June 20.
Receiver, Automatic frequency control. D. E. Foster. 2,162,883; June 20.
Receiver, Superheterodyne. D. E. Foster and C. W. Finnigan. 2,162,884; June 20.
Recording, Mechanical. J. H. de Boer. 2,163,087; June 20.
Rectifier, Film type. C. B. Mirick. 2,162,740; June 20.
Reed for accordions, Tunable. W. A. Bringe. 2,162,835; June 20.
Reel: *See*—
Breaker reel.
Reel. J. A. Coxe. 2,162,774; June 20.
Reel, Fishing. F. A. King. 2,162,726; June 20.
Reflector, Automobile. F. Malaguti. 2,163,380; June 20.
Refrigerating system. P. Okey. 2,163,054; June 20.
Refrigerator. M. Hokanson. 2,163,322; June 20.
Refrigerator. P. C. Warren and W. Boydston. 2,163,182; June 20.
Refrigerator air circulating and purifying means. H. H. Short. 2,162,923; June 20.
Refrigerator, Mechanical. G. M. Evans. 2,162,945; June 20.
Refrigerators, Defrosting of. E. R. Gill, Sr. 2,162,709; June 20.
Register of multiple operations, Apparatus for effecting. W. F. Grupe. 2,163,035; June 20.
Regulator: *See*—
Pressure regulator.
Regulator and indicator for cigarette making machines. C. S. Stephano. 2,163,415; June 20.
Relaxation oscillation generator. K. Schlesinger. 2,163,214; June 20.
Relay, Electrical. N. F. Agnew. 2,162,903; June 20.
Relay, Mechanical. P. G. Edwards. 2,163,195; June 20.
Relief device for lubricating apparatus. L. C. Rotter. 2,162,898; June 20.
Remote control system. S. W. Seeley. 2,163,411; June 20.
Remover for "pyrex" dishes. I. C. Molleson. 2,163,129; June 20.
Resistance element. N. C. Schellenger. 2,163,067; June 20.
Resistance element for rheostats. A. W. Plensler. 2,162,969; June 20.
Riveting machine and the like. H. A. Tomkins. 2,163,440; June 20.
Roasting machine. C. Zmay. 2,162,793; June 20.
Roll, Covering a cylinder. C. L. Gleeson. 2,162,947; June 20.
Roll for paper machines, Self-adjusting felt. M. T. Weston. 2,163,163; June 20.
Roler for cinematograph apparatus, Feed and guide. W. Scupin. 2,163,470; June 20.
Roof construction, Furnace. C. F. Pollen. 2,163,435; June 20.
Rotary drier. H. F. Roland. 2,162,973; June 20.
Rotor blades for steam or gas turbines, Making. F. A. Wettstein. 2,163,531; June 20.
Rug and filler therefor and producing the same. M. Goldstein. 2,163,337; June 20.
Safety device for motor vehicles. M. T. Sasoon. 2,163,292; June 20.
Safety plug. H. C. Loundenbeck. 2,163,401; June 20.
Salts, Stabilizing organic heavy metal. M. Bogdan. 2,163,020; June 20.
Saw-filing tool. E. A. Sedlmayr. 2,163,248; June 20.
Sawing appliance. M. F. Hammond. 2,163,320; June 20.
Sawing machine. H. W. Kulp. 2,162,848; June 20.
Scanning, Method of and apparatus for interlaced. S. L. Clothier and H. C. Hogencamp. 2,163,541; June 20.
Screen: *See*—
Double mosaic screen. Well screen.
Screen for digesters. H. H. Richmond. 2,163,437; June 20.
Screens and the like, Means for vibrating. J. W. Sherwen. 2,163,249; June 20.
Screw and making same. D. E. Johnson. 2,162,891; June 20.
Seal. W. M. Duncan, Jr. 2,163,488; June 20.
Seal, Ceramic-to-metal. H. Pulfrich. 2,163,407; June 20.
Seal, Ceramic-to-metal. H. Pulfrich. 2,163,409; June 20.
Seal, Ceramic-to-meal. H. Pulfrich and R. Magner. 2,163,410; June 20.
Seal, Compressor. A. Peterson. 2,163,153; June 20.
Seal, Vacuum tight. H. Pulfrich. 2,163,408; June 20.
Sealing means for shafts of compressors and the like. A. S. Limpert. 2,163,127; June 20.
Seat back and the like, and method of forming. C. A. Van Derveer. 2,163,359; June 20.
Securing device, Resilient. J. H. Van Uum. 2,163,455; June 20.
Sedimentation apparatus. L. D. Goodhue and C. M. Smith. 2,163,000; June 20.
Selector apparatus for radio receivers, Time controlled. O. A. Carlson and L. Pratt. 2,163,190; June 20.
Selenium rectifier having light metal carrier electrodes. F. Brunke and W. Koch. 2,163,393; June 20.
Separator: *See*—
Oil and gas separator.
Separator, Cleaner, concentrating table, or the like, Pneumatic. E. L. Knight. 2,163,342; June 20.
Sewage disposal apparatus, Ship's. J. F. Tucker. 2,163,506; June 20.

Sewing machine work guide attachment. M. Curreri. 2,163,086; June 20.
Sewing machines, Whip-stitching attachment for. T. E. D. Bilde. 2,163,187; June 20.
Shade, Lamp. J. O. Howard. 2,163,427; June 20.
Shaft collar. F. H. Dalrymple. 2,163,315; June 20.
Shears, Downspout cutting. G. F. Grant. 2,163,088; June 20.
Sheet feeding machine. A. Hormel. 2,162,889; June 20.
Sheet-handling machinery. W. M. Kelly. 2,163,492; June 20.
Sheet, Mattress covering bed. L. S. Shauer. 2,162,755; June 20.
Sheet-moistening device. F. W. Storck. 2,163,529; June 20.
Sheet separator and feeder. J. G. Dixon. 2,163,274; June 20.
Sheet transferring device. G. W. von Hofe. 2,163,441; June 20.
Shield, Automobile glare. R. C. Jacobs. 2,163,340; June 20.
Ship hull and constructing it. G. C. Parsons. 2,162,822; June 20.
Shock absorber. E. W. Cleveland. 2,163,459; June 20.
Shock absorber of the piston and cylinder type, Hydraulic. R. Binder and H. Klein. 2,163,255; June 20.
Shock absorber with regulating device, Hydraulic. R. Binder and H. Klein. 2,163,254; June 20.
Shoe. H. Schröder. 2,163,158; June 20.
Shoe machine and method. K. Engel. 2,162,802; June 20.
Shoes, Manufacture of. J. W. Barna. 2,163,184; June 20.
Shoulder pad. C. E. Pankey. 2,162,858; June 20.
Shovel, Excavating. W. Baker. 2,162,994; June 20.
Shower bath. L. N. Farnum. 2,162,804; June 20.
Shutter, Delivery. A. Solberg. 2,163,356; June 20.
Sight, Bomb. E. W. Chafee and H. C. Van Auken. 2,162,699; June 20.
Sighting apparatus. J. C. Karnes. 2,162,723; June 20.
Sign: *See*—
Changeable sign. Illuminated sign.
Sign flashing device. W. N. Olson. 2,163,055; June 20.
Signal device and train control, Railway. H. W. Richards. 2,163,520; June 20.
Signal translating apparatus. R. J. Kircher. 2,163,244; June 20.
Signaling device. J. C. McCune. 2,163,434; June 20.
Signaling system. J. L. Miller. 2,163,051; June 20.
Ski creeper. B. Held and A. Shayne. 2,162,888; June 20.
Slack adjuster. C. C. Farmer. 2,163,396; June 20.
Slide fastener. D. Silberman. 2,163,413; June 20.
Slug, Page tie-up. L. A. Costigan. 2,163,024; June 20.
Snow plow. A. R. Henry and M. C. Willis. 2,163,279; June 20.
Soap package. J. H. Jorling. 2,163,228; June 20.
Sodamide, Production of finely divided. C. O. Miller and R. G. Roberts. 2,163,100; June 20.
Sofa, table, and chair, Combination. A. Olsen. 2,163,349; June 20.
Sole, Rubber. B. B. Craver. 2,162,912; June 20.
Solvent extracts, Treatment of. K. C. Laughlin. 2,163,245; June 20.
Solvent from oil in miscella and like mixtures, Separating. M. Bonotto. 2,163,303; June 20.
Spark timer for hammers. C. L. Charles. 2,163,336; June 20.
Sparking plug. H. L. Hall. 2,163,362; June 20.
Speed alarm switch, Automatic. B. P. Striemer and G. Fisher. 2,163,111; June 20.
Speed control, Automatic. D. V. Smith. 2,163,108; June 20.
Speed drive mechanism, Variable. G. J. Blum. 2,162,772; June 20.
Spoon, Fishing. G. D. Jones. 2,162,845; June 20.
Spring suspension. V. W. Erickson. 2,162,843; June 20.
Springing arrangement for the wheels of vehicles. F. Porsche. 2,163,131; June 20.
Stable products shortening the bleeding period. O. Ripke and K. Dötti. 2,162,863; June 20.
Stabilizer for lubricating oil dye. J. I. Wasson and G. H. B. Davis. 2,163,300; June 20.
Stair, Concealable. A. H. Frazier. 2,163,142; June 20.
Static eliminator. J. Simons. 2,163,294; June 20.
Steam, Apparatus for generating. B. F. Randel. 2,162,746; June 20.
Step, Folding car. R. G. Nichols. 2,162,964; June 20.
Stick for airplanes, Student's control. J. C. Ziegler. 2,163,114; June 20.
Stocking protector. D. Crichton. 2,163,423; June 20.
Stoker mechanism. R. E. Bressler. 2,163,370; June 20.
Stove. B. H. Wise. 2,163,165; June 20.
Stove device for automatic choke carburetors. M. C. Brown. 2,162,934; June 20.
Strain insulator. G. S. Van Antwerp. 2,163,160; June 20.
Structural element, Welded. W. Püngel. 2,163,209; June 20.
Sulphides, Making organic. E. Keyssner. 2,163,176; June 20.
Sulphur from ores and gases containing sulphur, Making elemental. C. Gaither. 2,163,554; June 20.
Support: *See*—
Wheel support.
Support device. J. J. Massalski. 2,163,098; June 20.
Support for railroad coach cars, Body. S. L. Gossard. 2,163,198; June 20.
Supporter, Arch. A. I. Netkowski. 2,163,260; June 20.
Surface for plating, Preparing metal. E. Raub. 2,162,789; June 20.
Swab. J. T. Phipps. 2,163,058; June 20.
Switch: *See*—
Button hand switch. Nonarcing selector switch.
Electric switch. Speed alarm switch.
Front operated switch.
Switch control and indication system. H. S. Young. 2,162,927; June 20.
Switching device and mounting means therefor, Electric. B. R. Hermann. 2,163,398; June 20.
Swivel. W. A. H. Wells. 2,163,420; June 20.
Symbol for advertising purposes, Luminous. K. Wiegand. 2,163,442; June 20.
Synchronizing method and apparatus. S. L. Clothier and H. C. Hogencamp. 2,163,542; June 20.
Table: *See*—
Print reproducing table.
Table for washbasins and the like, Extension. B. Hart. 2,162,887; June 20.
Table or the like. R. K. Merrill. 2,163,049; June 20.
Tank: *See*—
Gas tank. Vehicular tank.
Taurides. K. Kumetat and S. Gassner. 2,163,146; June 20.
Telemetric system using electrical resistance. F. Postlethwaite. 2,163,518; June 20.
Telephone pay station. H. Langner. 2,163,002; June 20.
Telephone set. H. F. Obergfell. 2,163,006; June 20.
Telephone system. C. D. Koechling. 2,162,892; June 20.
Television apparatus. S. L. Clothier and H. C. Hogencamp. 2,163,538; June 20.
Television method and apparatus. S. L. Clothier and H. C. Hogencamp. 2,163,537; June 20.
Television receiver circuit. K. Schlesinger. 2,163,216–17; June 20.
Television reception, Apparatus and method for. S. L. Clothier and H. C. Hogencamp. 2,163,546; June 20.
Television scanning, Method of and apparatus for. S. L. Clothier and H. C. Hogencamp. 2,163,540; June 20.
Television scanning system. S. L. Clothier and H. C. Hogencamp. 2,163,547; June 20.
Television scanning, System for. S. L. Clothier and H. C. Hogencamp. 2,163,548; June 20.
Television transmission, Apparatus and method for. S. L. Clothier and H. C. Hogencamp. 2,163,545; June 20.
Television transmission arrangement. K. Schlesinger. 2,163,216; June 20.
Television transmitter. K. Schlesinger. 2,163,215; June 20.
Temperature regulating means for metallurgical furnaces. R. H. Cantrell and L. Rumford, 2d. 2,163,510; June 20.
Tender, Locomotive. F. Hogg. 2,163,426; June 20.
Tender, Locomotive. F. Hogg. 2,163,447; June 20.
Tensioning device. G. A. Hinricher. 2,163,039; June 20.
Tent, Hatch. V. J. Spelman. 2,163,072; June 20.
Textiles, Procedure for the improvement of. K. Stickdorn and R. Hueter. 2,163,068; June 20.
Thermic plant. R. Pateras Pescara. 2,162,967; June 20.
Thermostat remote control. A. H. Waage. 2,163,297; June 20.
Thread cores. C. K. Dunlap. 2,162,841; June 20.
Thread-cutting temple. F. D. Herring. 2,163,308; June 20.
Thread or the like, Manufacture of. W. F. Knebusch and A. H. Burkholder. 2,162,728; June 20.
Thread or the like, Process of and apparatus for drying. H. B. Kline. 2,162,727; June 20.
Tile. J. B. Boyd, Sr. 2,162,695; June 20.
Tile, Design producing. V. Hagopian. 2,162,777; June 20.
Tile, Drainage. F. S. Wuelker. 2,162,926; June 20.
Toaster, Automatic. R. Sardeson. 2,162,899; June 20.
Toe pad. A. L. Schenk. 2,163,012; June 20.
Tool: *See*—
Saw-filing tool.
Tool. I. C. McKechnie and R. A. Pattison. 2,162,819; June 20.
Tooth brush. W. G. Wolf. 2,163,211; June 20.
Top edge treating machine. W. P. Osgood. 2,162,965; June 20.
Torpedo, Track. H. W. Kelly. 2,162,724; June 20.
Torque controlled clutch. P. H. Farren. 2,163,514; June 20.
Toy airplane. T. D. Wildon. 2,163,075; June 20.
Toy railroads, Siding control and signal for. R. V. King. 2,163,430; June 20.
Traffic controlling apparatus, Railway. J. M. Pelikan. 2,162,859; June 20.
Torpedo. J. R. Holran and E. T. Sednum. 2,163,462; June 20.
Transmission. P. W. Hotton. 2,163,339; June 20.
Transporting and dumping vehicle. G. R. Dempster. 2,162,839; June 20.
Traveling rotary die. M. Dorman. 2,163,487; June 20.
Tray. W. Evans and A. F. Knaggs. 2,163,117; June 20.
Trimmer, Edge. E. Dunford. 2,162,944; June 20.
Truck, Railway. E. C. Anderson. 2,163,253; June 20.

T's, Making. J. H. Taylor. 2,162,870; June 20.
Tube: *See*—
Braun tube.
Cathode ray tube.
Mercury cathode discharge tube.
Tube and the like, Electron discharge. C. F. Miller. 2,163,310; June 20.
Tubing control head. W. L. Church. 2,163,422; June 20.
Turbine, Elastic fluid. A. Lysholm. 2,162,957; June 20.
Twine dispenser. H. H. Rominger. 2,163,064; June 20.
Two-way coupling. F. A. Raddick. 2,163,212; June 20.
Type composing and casting machine. B. S. Fine. 2,163,390; June 20.
Upright printing press. W. M. Kelly. 2,162,725; June 20.
Utensil handle, Cooking. D. R. Mattoon. 2,162,961; June 20.
Valve: *See*—
Drilling valve.
Manifold valve.
Valve. L. C. Baumgarten. 2,162,832; June 20.
Valve. V. L. Du Bois. 2,162,840; June 20.
Valve. R. A. Norbom. 2,162,743; June 20.
Valve. J. M. Shimer. 2,163,472; June 20.
Valve element, Chrome steel alloy. P. Payson, L. S. Bergen, and W. L. Hodapp. 2,163,561; June 20.
Variable clearance volume engine. F. C. Wagner. 2,163,015; June 20.
Vault. S. F. Laucks and C. F. Sioberg. 2,163,044; June 20.
V-belt shifting means for cone pulleys. M. F. Phelps. 2,162,968; June 20.
Vegetable bag. A. Reinhold. 2,163,324; June 20.
Vehicle: *See*—
Railway vehicle.
Transporting and dumping vehicle.
Vehicle for plant spraying materials, Aqueous. J. R. Allison. 2,162,905; June 20.
Vehicle having emulsifying properties, Aqueous. J. R. Allison. 2,162,906; June 20.
Vehicle track chain. J. K. Christmas. 1,162,700; June 20.
Vehicle transmission, Automotive. P. M. Carter and L. A. Larsen. 2,162,937; June 20.
Vehicular tank. F. G. Thwaits. 2,163,387; June 20.
Velocipede structure. S. A. Snell. 2,162,762; June 20.
Ventilator. L. S. Wilson. 2,163,077; June 20.
Vessel for mixing and cooling liquids. A. H. Payson and C. O. Duevel, Jr. 2,163,057; June 20.
Vest, Man's. M. Bello. 2,163,392; June 20.
Vibrational energy, System for measuring. M. S. Mead, Jr. 2,163,404; June 20.
Vinyl sulphides, Oxidation of. H. Ufer. 2,163,180; June 20.
Vise for typographical machines. L. W. Bieber. 2,163,536; June 20.
Visor for automobiles, Sun. S. M. Levy. 2,163,495; June 20.
Volume control circuit, Automatic. R. A. Weagant. 2,163,167; June 20.
Vulcanizing equipment. H. H. Hanson. 2,163,377; June 20.
Waist, Child's harness. E. I. Gosselin. 2,162,948; June 20.
Wall construction, Brick. A. G. Munro. 2,163,286; June 20.
Wall construction, Building. E. E. Slick. 2,163,454; June 20.
Wall construction of buildings, Interior. F. J. Jr. and V. J. Ball. 2,163,314; June 20.
Washing machine attachment. J. Cavallaro. 2,163,191; June 20.
Watch, Wrist. W. Schmitz. 2,163,220; June 20.
Water and air in air conditioning, Purification of. I. D. Groak and F. B. Orr. 2,162,809; June 20.
Water-gas generator, Slagging. W. Linder. 2,163,148; June 20.
Water heater. A. M. Hart. 2,163,199; June 20.
Webs, Forming duplexed. E. Claxton and H. Paschke. 2,163,372; June 20.
Weighing apparatus. A. J. Baagoe. 2,163,183; June 20.
Weighting device for golf club heads, Adjustable. S. S. Held. 2,163,091; June 20.
Welder handle. W. De Long. 2,163,486; June 20.
Welding, Arc. G. G. Sommerville. 2,163,439; June 20.
Welding machine. W. E. Smith. 2,162,868; June 20.
Well head. H. C. Otis. 2,163,178; June 20.
Well screen. W. L. Church. 2,162,799; June 20.
Well, Treating a. W. D. Owsley and C. F. Seeber. 2,163,449; June 20.
Wheel: *See*—
Heated steering wheel.
Wheel. F. W. Burger. 2,162,696; June 20.
Wheel disk and mounting same. G. A. Lyon. 2,163,004; June 20.
Wheel disk, Ornamental beaded. G. A. Lyon. 2,162,732; June 20.
Wheel disk structure, Ornamental. G. A. Lyon. 2,162,730; June 20.
Wheel disk structure, Ornamental. G. A. Lyon. 2,162,736; June 20.
Wheel hub structure, Steering. H. F. Smith. 2,162,759–61; June 20.
Wheel hub structure, Steering. H. F. Smith. 2,163,569; June 20.
Wheel, Making a. G. A. Lyon. 2,162,735; June 20.
Wheel mounting. C. Sauzedde. 2,162,751; June 20.
Wheel support. F. J. Raschka. 2,163,469; June 20.
Wheel suspension. F. W. Slack. 2,162,828; June 20.
Wheels, Producing vehicle. D. J. Campbell. 2,163,022; June 20.
Wey, Drying milk. J. R. Spelincy. 2,163,331; June 20.
Whirligig. F. V. Belstrup. 2,163,185; June 20.
Wicket, Rug croquet. L. J. Smith. 2,162,867; June 20.
Winch, Airplane. J. C. Smaltz and C. W. Kahlerth. 2,163,231; June 20.
Winch driving gear assembly. P. J. Messer. 2,162,962; June 20.
Wind instrument of the reed type. E. V. Powell. 2,163,352; June 20.
Window construction for motor buses or the like, Front or rear. S. E. Biessin. 2,163,566; Jnne 20.
Windshield cleaning device. B. J. West. 2,162,985; June 20.
Wiper, Sucker rod. J. W. O'Dell. 2,163,007; June 20.
Wire coiling machine. W. H. Blount and C. F. Fisher. 2,163,019; June 20.
Wire, cord, yarn, and other materials, Winding on spools. S. H. Richards and W. J. Clements. 1,163,010; June 20.
Wire, Magnet. O. F. Freeland. 2,163,119; June 20.
Wire mill equipment. L. Young and A. A. Boyle. 2,163,389; June 20.
Wire tightener. G. W. Clark. 2,163,083; June 20.
Wires together, Securing. E. W. Krueger. 2,162,815; June 20.
Wiring system, Prefabricated. W. S. Rugg and H. D. James. 2,162,864; June 20.
Wrapping machine. W. B. Bronander. 2,162,773; June 20.
Wrapping machine unit. C. J. Malhiot. 2,163,047; June 20.
Wrench. J. P. Genard. 2,162,708; June 20.
Wrench. S. Kupis. 2,163,283; June 20.
X-ray apparatus. A. Bouwers and A. Kuntke. 2,162,833; June 20.
Yarn winding machine. W. Shaw. 2,163,328; June 20.
Zinc sulphide as a ceramic opacifier. R. W. Hannagen. 2,163,516; June 20.

CLASSIFICATION OF PATENTS

ISSUED JUNE 20, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A-M-R Chemical Company, Brooklyn, N. Y. Glass cleaner and polish, polishing powder, and cleaning compounds. Serial No. 404,738; June 27. Class 4.

Agfa Ansco Corporation, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Sensitized photographic paper. Serial Nos. 417,601–2; June 27. Class 26.

Allen, Helen, New York, N. Y. Lipstick. Serial No. 417,321; June 27. Class 6.

Altman, B., & Co., New York, N. Y. Draperies, curtains, carpets, etc. Serial No. 419,362; June 27. Class 42.

American Car and Foundry Motors Company, New York, N. Y. Motor vehicles. Serial No. 414,588; June 27. Class 19.

American Maize-Products Company, New York, N. Y. Corn syrup. Serial No. 404,304; June 27. Class 46.

Anker-Holth Manufacturing Co., Port Huron, Mich. Milking machines. Serial No. 418,233; June 27. Class 23.

Antipyros Company, New York, N. Y. Piece goods. Serial No. 418,428; June 27. Class 42.

Atlas Mattress Company. (See Leberman, Sam.)

Augusta Canning Company. (See Baxter, H. C., & Bro.)

Ayerst, McKenna & Harrison, Limited, Montreal, Quebec, Canada. Oestrogenic hormone preparation. Serial No. 417,604; June 27. Class 6.

Baum, Newton V., Baltimore, Md. Pop corn products. Serial No. 418,089; June 27. Class 46.

Baxter, H. C., & Bro., doing business as H. C. Baxter Bros. Co., Baxter Bros. Co., and Augusta Canning Company, Brunswick, Maine. Canned vegetables. Serial Nos. 417,433–4; June 27. Class 46.

Booth Corporation, The, Chicago, Ill. Fresh frozen fruits and vegetables. Serial No. 415,629; June 27. Class 46.

Boott Mills, Lowell, Mass. Scrim. Serial No. 416,719; June 27. Class 42.

Bozeman Canning Company, Mount Vernon, Wash. Canned peas. Serial No. 418,031; June 27. Class 46.

Bucyrus-Erie Company. (See Ruth Dredger Manufacturing Corporation, Ltd., assignor.)

California Crematorium, Oakland, Calif. Urns for the ashes of the dead. Serial No. 408,874; June 27. Class 2.

Calissi, Paul C., doing business as Calpa Products Company, Philadelphia, Pa. Electric lamps. Serial No. 417,438; June 27. Class 21.

Calpa Products Company. (See Calissi, Paul C.)

Canine Vita-Candy Company, Inc., Waterbury, Conn. Vitamine-containing foods for pets. Serial No. 396,118; June 27. Class 46.

Cates, Chas. F., & Sons, Inc., Faison, N. C. Pickles and relishes. Serial No. 417,680; June 27. Class 46.

Century Metalcraft Corporation, Chicago, Ill. Aluminum cooking and serving hollow ware. Serial No. 418,430; June 27. Class 13.

Cercla, Inc., Chicago, Ill. Binding devices made of plastic material. Serial No. 415,875; June 27. Class 37.

Checkmaster Plan, Inc., New York, N. Y. Passbooks, deposit slips, application forms, etc. Serial No. 414,687; June 27. Class 37.

Chicago Flexible Shaft Company, Chicago, Ill. Electric dry shavers and parts thereof. Serial No. 417,903; June 27. Class 23.

Chipburn, John, Arnold, Md. Liniment. Serial No. 412,025; June 27. Class 6.

Clark Thread Company, The, Newark, N. J. Thread. Serial No. 418,133; June 27. Class 43.

Clopay Corporation, Cincinnati, Ohio. Novelty photographic picture printing device. Serial No. 418,033; June 27.

Cohn-Hall-Marx Co., New York, N. Y. Piece goods. Serial No. 419,292; June 27. Class 42.

Columbia Mills, Inc., The, New York, N. Y. Mounted shades, window shades, and shade rollers. Serial No. 417,082; June 27. Class 32.

Consolidated Dairy Products Company, Seattle, Wash. Evaporated milk and skimmed milk powder. Serial No. 415,434; June 27. Class 46.

Corman & Wasserman, Baltimore, Md. Men's coats, vests, and pants. Serial No. 414,983; June 27. Class 39.

Crown Products Corporation, San Francisco and Los Angeles, Calif. Orange marmalade, honey, salad oil, etc. Serial No. 418,965; June 27. Class 46.

Detroit Harvester Company, Toledo, Ohio. Nut like fastening clips. Serial No. 417,269; June 27. Class 13.

Deutsche Gold- und Silber-Scheideanstalt (formerly Roessler), Frankfort-on-the-Main, Germany. Quenching products. Serial No. 409,391; June 27. Class 6.

Distillation Products, Inc., Rochester, N. Y. Grease. Serial No. 418,824; June 27. Class 15.

Drake, L. F., Mercedes, Tex. Canned citrus fruit juices. Serial No. 416,950; June 27. Class 46.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dental plate blanks. Serial No. 419,568; June 27. Class 44.

Dye, Dr. J. H., Medical Institute. (See Kingdon, Howard A.)

Elbo-Ette Company. (See Rhorer, George H.)

Emby Photo and Film Machine Corp., New York, N. Y. Photographic albums and folders. Serial No. 409,915; June 27. Class 37.

Etablissements Emel S. A. R. L., Paris, France. Devices, apparatus, and accessories for cinematography and photography. Serial No. 407,540; June 27. Class 26.

Evans, David G., Coffee Company, St. Louis, Mo. Tea. Serial No. 418,332; June 27. Class 46.

Excelsior Stationery Company. (See Kasman, Abraham.)

Federated Textiles, Inc., New York, N. Y. Piece goods. Serial Nos. 417,168–9; June 27. Class 42.

Folmer Graflex Corporation, The, Rochester, N. Y. Sensitized films, photographic papers, plates, etc. for photographic purposes. Serial No. 415,288; June 27. Class 26.

Food Advertiser's Service, New York, N. Y. Posters for advertising. Serial No. 415,940; June 27. Class 38.

Foster Grant Co. Inc., Leominster, Mass. Goggles and sun-glasses. Serial No. 418,521; June 27. Class 26.

Frito Company, The, Dallas, Tex. Salted peanuts. Serial No. 415,642; June 27. Class 46.

Gamble Stores Incorporated, Minneapolis, Minn. Farm and garden implements. Serial No. 418,100; June 27. Class 23.

Garden City Plating & Mfg. Co., Inc., Chicago, Ill. Lamp reflectors. Serial No. 417,212; June 27. Class 34.

Garlock Packing Company, The, Palmyra, N. Y. Hydraulic packing. Serial No. 419,510; June 27. Class 35.

General Baking Company, New York, N. Y. Bread. Serial No. 418,710; June 27. Class 46.

General Chemical Company, New York, N. Y. Caustic alkali preparation. Serial No. 415,506; June 27. Class 6.

General Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 417,611; June 27. Class 46.

Gordon, M. Neal, and Samuel C. Johnson, Uniontown, Pa. Ointment or liquid. Serial No. 415,002; June 27. Class 6.

Green & Green Inc., Houston, Tex. Non-alcoholic beverages, syrups, and concentrates for making same. Serial No. 419,376; June 27. Class 45.

Hain, Harold, doing business as Hain Pure Food Company, Los Angeles, Calif. Gelatine capsules containing an oil cold-pressed from garlic. Serial No. 414,949; June 27. Class 6.

Haist, Wade E., Aurora, Ill. Chamois vests. Serial No. 417,574; June 27. Class 39.

Hall, Horace W., Newton Highlands, Mass. Tennis, squash, and badminton rackets. Serial No. 419,019; June 27. Class 22.

Healthaids, Inc. of New Jersey, Newark, N. J. Preparation for use as a food auxiliary and constipation corrective for dogs. Serial No. 413,827; June 27. Class 6.

Heller Brothers Company, Newark, N. J. Files. Serial No. 411,530–1; June 27. Class 23.

Hilker & Bletsch Company, Cincinnati, Ohio. Vitamin B_1 wafers. Serial No. 417,458; June 27. Class 46.

Hilleck, J. A., doing business as No-De-Ka Co., Los Angeles, Calif. Tooth powder. Serial No. 410,735; June 27. Class 6.

Hollywood Brands Incorporated, doing business as Hollywood Candy Company, Minneapolis, Minn., and Centralia, Ill. Candy. Serial No. 416,565; June 27. Class 46.

Holst-Knudsen, S., New York, N. Y. Canned hams. Serial No. 417,220; June 27. Class 46.

Hussman-Holmes Company, Los Angeles, Calif. Concentrated vitamin and mineral food supplement. Serial No. 415,651; June 27. Class 6.

Industrial Soap Co., St. Louis, Mo. Powdered toilet soap, metal polish, sweeping compound, and oil soap. Serial No. 418,876; June 27. Class 4.

Isbell, Vernon, Fort Worth, Tex. Permanent wave solutions. Serial No. 411,780; June 27. Class 6.

Johnson, Edward A., Dayton, Ohio. Chess game. Serial No. 417,840; June 27. Class 22.

Johnson, Samuel C. (See Gordon, M. Neal, and Samuel C. Johnson.)

Kahn Bros. Hay & Grain Co., Chicago, Ill. Grass seeds. Serial No. 418,107; June 27. Class 1.

Kasman, Abraham, doing business as Excelsior Stationery Company, New York, N. Y. Bond paper. Serial No. 417,806; June 27. Class 37.

Kingdon, Howard A., deceased, Estate of, doing business as Dr. J. H. Dye Medical Institute, Buffalo, N. Y. Vegetable compounds. Serial No. 412,410; June 27. Class 6.

Knights of the Cauliflower Ear, St. Louis, Mo. Publications. Serial No. 403,509; June 27. Class 38.

Knox Company, The, Los Angeles, Calif. Medicinal preparations. Serial No. 419,021; June 27. Class 6.
Kraft-Phenix Cheese Corporation, Chicago, Ill. Oleomargarine. Serial No. 418,642; June 27. Class 46.
Laboratori Chimici Candioli Soc. An., Livorno, Italy. Insecticides. Serial No. 416,651; June 27. Class 6.
Laderberg, Flora, Baltimore, Md. Liquid preparation for mending broken fingernails. Serial No. 417,129; June 27. Class 6.
Lakeland Manufacturing Company, Sheboygan, Wis., and Chicago, Ill. Overcoats, top coats, and sport coats. Serial No. 417,967; June 27. Class 39.
Lance Packing Company, Charlotte, N. C. Cakes. Serial No. 418,841; June 27. Class 46.
Leberman, Sam, doing business as Atlas Mattress Company, Springfield, Ill. Mattresses, pillows, and upholstered furniture. Serial Nos. 415,902–3; June 27. Class 32.
Levin Brothers, New York, N. Y. Razor blades. Serial No. 400,196; June 27. Class 23.
Lichtman, J., & Sons, Newark, N. J. Leather. Serial No. 417,880; June 27. Class 1.
Lily Mills Company, Shelby, N. C. Hand weaving looms and parts thereof. Serial No. 417,543; June 27. Class 23.
Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland. Insecticides, disinfectants, and vermin and weed destroyers. Serial No. 411,000; June 27. Class 6.
Luckybird Aviaries. (See Walker, Clarence P.)
Luitpold-Werk Chemisch-Pharmaceutische Fabrik, Munich, Germany. Enzyme preparations. Serial No. 407,552; June 27. Class 6.
Manhattan Shirt Company, The, New York, N. Y. Pajamas. Serial No. 410,435; June 27. Class 39.
Marinovich, J. G., Watsonville, Calif. Fresh vegetables. Serial No. 418,690; June 27. Class 46.
Matthews, Nilsa, Inc., New York, N. Y. Skin tissue cream. Serial No. 418,978; June 27. Class 6.
Mayer, Oscar, & Company, Chicago, Ill. Meats and meat products. Serial Nos. 416,733–4; June 27. Class 46.
McLaughlin Bros., Inc., Springfield, Mass. Toy set. Serial No. 419,084; June 27. Class 22.
Mohawk Liqueur Corporation, Detroit, Mich. Alcoholic cocktail. Serial No. 417,549; June 27. Class 49.
Mohawk Liqueur Corporation, Detroit, Mich. Alcoholic cocktail. Serial No. 417,551; June 27. Class 49.
National Broom Mfg. Co., The, Pueblo, Colo. Dry cleaning preparation, a glass cleaner, and a cleaner for paint, woodwork, etc. Serial No. 418,355; June 27. Class 4.
National Musical String Co., New Brunswick, N. J. Strings for musical instruments. Serial No. 418,114; June 27. Class 36.
National Silver Deposit Ware Co. Inc., New York, N. Y. Electric mixers. Serial No. 418,164; June 27. Class 21.
Negbaur, H., & Co., Inc., New York, N. Y. Cigarette cases. Serial No. 418,448; June 27. Class 8.
Nestor Johnson Manufacturing Company, Chicago, Ill. Ice skates and skate outfits. Serial Nos. 419,628–9; June 27. Class 22.
New Process Metals Corporation, Newark, N. J. Pyrophoric or sparking metal alloys. Serial No. 418,356; June 27. Class 14.
New Process Metals Corporation, Newark, N. J. Pyrophoric or sparking metal alloys. Serial No. 418,529; June 27. Class 14.
No-De-Ka Co. (See Hilleck, J. A.)
Nyal Company, Detroit, Mich. Laxative and cathartic preparation. Serial No. 419,440; June 27. Class 6.
Oil Workers International Union, Fort Worth, Tex. Gasoline, motor oils, kerosene, etc. Serial No. 417,422; June 27. Class 15.
Orange-Crush Company, Chicago, Ill. Non-alcoholic, maltless beverages and concentrates and compounds for making the same. Serial No. 408,129; June 27. Class 45.
Orcutt, Selwyn, New York, N. Y. Lesson books for playing lawn tennis. Serial No. 410,305; June 27. Class 38.
Parfums Varré, Inc., New York, N. Y. Perfumes. Serial No. 418,979; June 27. Class 6.
Parker Rust Proof Company, Detroit, Mich. Steel sheets. Serial No. 418,981; June 27. Class 14.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints, paint enamels, stains, etc. Serial Nos. 419,038–40; June 27. Class 16.
Pharmazeutisches Laboratorium Griess & Co., Dortmund, Germany. Suppositories, salve, and pills. Serial No. 409,206; June 27. Class 6.
Quaker Hosiery Company, Inc., Philadelphia, Pa. Hosiery. Serial No. 418,265; June 27. Class 39.
Rabin, Allen H., doing business as The Rabin Company, Los Angeles, Calif. Cold cream, brilliantine, hair cream, etc. Serial No. 416,743; June 27. Class 6.
Rhorer, George H., doing business as Elbo-Ette Company, New York, N. Y. Elbow pads. Serial No. 417,506; June 27. Class 44.
Richards, Boggs and King, Inc., Chicago, Ill. Sheet material treated with a water-proofing medium. Serial No. 411,342; June 27. Class 50.
Richardson, Eugene N., Chicago, Ill. Solution and a salve. Serial No. 414,470; June 27. Class 6.
Roach-Indiana Corporation, Gwynneville, Ind. Canned tomatoes. Serial No. 418,851; June 27. Class 46.
Rosefield Packing Co. Ltd., Alameda, Calif. Dry milk powders. Serial No. 417,824; June 27. Class 46.
Russakov, Jacob T., doing business as The Russakov Company, Chicago, Ill. Chairs and stools. Serial No. 419,635; June 27. Class 32.
Ruth Dredger Manufacturing Corporation, Ltd., Los Angeles, Calif., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Ditching machines and bucket-line land dredges. Serial No. 411,711; June 27. Class 23.
Samson Cordage Works, Boston, Mass. Clothesline. Serial No. 419,043; June 27. Class 7.
Schetty, Franz & Louise, doing business as Frank H. Schetty, Hasbrouck Heights, N. J. Cookies and cakes. Serial No. 416,922; June 27. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Cotton piece goods. Serial No. 419,090; June 27. Class 42.
Seneca Silk Co. Inc., New York, N. Y. Rayon piece goods. Serial No. 417,307; June 27. Class 42.
Sinclair Refining Company, New York, N. Y. Lubricating oil. Serial No. 418,751; June 27. Class 15.
Sloman, Mark J., New York, N. Y. Towels. Serial No. 417,893; June 2. Class 42.
Smith, L. C., & Corona Typewriters, Inc., Syracuse, N. Y. Typewriting machines. Serial No. 411,757; June 27. Class 23.
Snell-Jones Tack Corp., Brockton, Mass. Tacks and nails. Serial No. 417,103; June 27. Class 13.
Society of Chemical Industry in Basle, Basel, Switzerland. Synthetic resins. Serial Nos. 418,604–5; June 27. Class 1.
Society of Chemical Industry in Basle, Basel, Switzerland. Male sexual hormone. Serial No. 418,991; June 27. Class 6.
Staley, A. E., Manufacturing Company, Decatur, Ill. Table syrups, molasses, and imitation fruit jellies. Serial No. 418,654; June 27. Class 46.
Steele-Wedeles Company, Chicago, Ill. Coffee. Serial No. 418,072; June 27. Class 46.
Stein, S., & Co., New York, N. Y. Woolen goods. Serial No. 418,422; June 27. Class 42.
Stein, S., & Co., New York, N. Y. Woolen goods. Serial Nos. 419,237–8; June 27. Class 42.
Stewart, A. L., & Sons, Cherryfield, Maine. Canned fruits. Serial No. 408,813; June 27. Class 46.
Stone Mill Fabrics Corporation, New York, N. Y. Woven fabrics. Serial Nos. 418,897–8; June 27. Class 42.
Strathmore Paper Company, West Springfield, Mass. Cover paper. Serial No. 415,967; June 27. Class 37.
Street & Smith Publications, Inc., New York, N. Y. Section of a periodical. Serial No. 418,546; June 27. Class 38.
Sutherland Paper Company, Kalamazoo, Mich. Paper plates and cups. Serial No. 417,983; June 27. Class 2.
Thompson, William L., Co., Phoenix, Ariz., and Fort Garland, Colo. Fresh vegetables. Serial No. 418,994; June 27. Class 46.
Ultra Chemical Works, Inc., Paterson, N. J. Hair shampoo. Serial No. 409,982; June 27. Class 6.
Underwood Elliott Fischer Company, New York, N. Y. Typewriter ribbon and carbon paper. Serial No. 417,941; June 27. Class 11.
United Carbon Company, Inc., Charleston, W. Va. Paints. Serial No. 417,896; June 27. Class 16.
U. S. Industrial Alcohol Co., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y. Core and road binders, washes, and adhesives. Serial No. 413,608; June 27. Class 5.
Virginia Rubatex Corporation, Bedford, Va. Rubber exercise mats. Serial No. 419,599; June 27. Class 22.
Walker, Clarence P., doing business as Luckybird Aviaries, Lakewood, Ohio. Cage birds. Serial No. 405,534; June 27. Class 1.
Warren-Teed Products Co., The, Columbus, Ohio. Ointment. Serial No. 417,242; June 27. Class 6.
Wasatch Oil Refining Company, Woods Cross and Salt Lake City, Utah. Gasoline, and lubricating oil and grease. Serial No. 400,713; June 27. Class 15.
Washington, G., Coffee Refining Co., Morris Plains, N. J. Broth. Serial Nos. 418,019–21; June 27. Class 46.
Washington Tent & Awning Co., Inc., Washington, D. C. Awnings and tents. Serial No. 417,990; June 27. Class 50.
Weissman, Fred P., Inc., New York, N. Y. Misses' and juniors' coats. Serial No. 418,319; June 27. Class 39.
Western Distributors Corporation, Sacramento, Calif. Bottled soft drink beverages and mineral waters. Serial No. 418,956; June 27. Class 45.
White Rock Mineral Springs Company, Waukesha, Wis. Bottled soda water. Serial Nos. 419,460–1; June 27. Class 45.
Williams, West & Witt Products Company, Chicago, Ill. Concentrated meat stock. Serial No. 417,635; June 27. Class 46.
Winter-Drittel, Inc., New York, N. Y. Women's dresses. Serial No. 404,826; June 27. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Air-Maze Corporation, Cleveland, Ohio. Air filtering panels. 368,700; June 27; Serial No. 415,572; published Apr. 18, 1939. Class 34.
Altschuler-Picard, Fred, Lausanne, Switzerland. Precious stones, buttons made of precious metal, necklaces, etc. 368,600; June 27; Serial No. 410,815; published Apr. 11, 1939. Class 28.
American Brake Shoe and Foundry Company, also doing business as American Brake-blok Division of The American Brake Shoe and Foundry Company, New York, N. Y., and Detroit, Mich. Adhesive cement. 368,614; June 27; Serial No. 412,402; published Apr. 18, 1939. Class 5.
American Brake Shoe and Foundry Company, The, New York, N. Y. Composition bearings, shaft couplings and slides. 368,737; June 27; Serial No. 416,025; published Apr. 18, 1939. Class 23.
American Brush Corporation, Chicago, Ill. Wheat paste and cold water size for use on walls. 368,583; June 27; Serial No. 406,744; published Apr. 18, 1939. Class 5.
American Character Doll Co. Inc., New York, N. Y. Dolls. 368,794; June 27; Serial No. 416,827; published Apr. 18, 1939. Class 22.
American Jewelry Chain Company, Providence, R. I. Jewelry, chains and sautoirs. 368,782; June 27; Serial No. 416,498; published Apr. 18, 1939. Class 28.
American Optical Company, Southbridge, Mass. Ophthalmic mountings and parts thereof. 368,695–6; June 27; Serial Nos. 415,536–7; published Apr. 18, 1939. Class 26.
Anemostat Corporation of America, New York, N. Y. Air distributors and diffusers for ventilating systems. 368,640; June 27; Serial No. 414,135; published Apr. 18, 1939. Class 34.
Associate British Mfrs. (See Finch, Miles L.)
Atlantic Rug Company. (See Bemporad, R. Ferruccio.)
Atlas Chemical Company. (See Northwestern Chemical Co., The, assignor.)
Augstein, S., & Co., College Point, N. Y. Dresses, play suits, and bathing suits. 368,622; June 27; Serial No. 413,174; published Feb. 14, 1939. Class 39.
Automatic Gasflux Company, The, Cleveland, Ohio. Chemical agent. 368,576; June 27; Serial No. 403,391; published Apr. 18, 1939. Class 6.
Automatic Gasflux Company, The, Cleveland, Ohio. Chemical agent. 368,762; June 27; Serial No. 416,240; published Apr. 18, 1939. Class 6.
Automatic Instrument Company, Grand Rapids, Mich. Combination phonograph and timed electrical circuit closing means for the control of certain mechanical and electrical display means. 368,561; June 27; Serial No. 398,884; published Apr. 18, 1939. Class 36.
Babcock Publications, Inc., The, Akron, Ohio. Annual publication. 368,582; June 27; Serial No. 405,338; published Apr. 11, 1939. Class 38.
Barlow & Seelig Mfg. Co., Ripon, Wis. Ironing machines. 368,725; June 27; Serial No. 415,974; published Apr. 11, 1939. Class 24.
Baumann, Ludwig, & Company, New York, N. Y. Watches. 368,595; June 27; Serial No. 410,166; published Apr. 18, 1939. Class 27.
Bazon Company, The. (See Smith, Robert H.)
Bean Tire & Rubber Works, San Jose, Calif. Rubber spider. 368,581; June 27; Serial No. 405,307; published Apr. 18, 1939. Class 23.
Bear Creek Orchards, Medford, Oreg. Fresh deciduous fruits. 368,755; June 27; Serial No. 416,175; published Apr. 18, 1939. Class 46.
Bellman Brook Bleachery Co., Fairview, N. J. Organdie. 368,592; June 27; Serial No. 409,602; published Apr. 18, 1939. Class 42.
Bemporad, R. Ferruccio, doing business as Atlantic Rug Company, New York, N. Y. Rugs and carpets. 368,625; June 27; Serial No. 413,468; published Apr. 18, 1939. Class 42.
Bereman, James H., doing business as The Stillman Company, Aurora, Ill. Preparation having germicidal and astringent properties. 368,567; June 27; Serial No. 401,724; published May 3, 1938. Class 6.
Bermingham & Prosser Co., Chicago, Ill. Art papers. 368,674; June 27; Serial No. 415,242; published Apr. 18, 1939. Class 37.
Bilotti, Antonio, Clifton Heights, Pa. Hair tonic. 368,770; June 27; Serial No. 416,308; published Apr. 4, 1939. Class 6.
Birchard, P. T., Seattle, Wash. Trade magazine. 368,712; June 27; Serial No. 415,760; published Apr. 18, 1939. Class 38.
Bliss, Guerin J., doing business as The Stylart Company, San Francisco, Calif. Liquid preparation used in conjunction with permanent waving equipment. 368,783; June 27; Serial No. 416,502; published Apr. 11, 1939. Class 6.
Bonita Packing Company, Guadalupe, Calif. Fresh vegetables. 368,688; June 27; Serial No. 415,441; published Apr. 18, 1939. Class 46.
Bowen-Ingalls & Co., Inc., New York, N. Y. Neckties. 368,558; June 27; Serial No. 395,607; published Apr. 18, 1939. Class 39.
Brewer & Company, Inc., Worcester, Mass. Capsule indicated in the treatment of vitamin deficiency. 368,791; June 27; Serial No. 416,762; published Apr. 18, 1939. Class 6.
Briske & Prohl, Berlin, Germany. Aluminum alloys, castings and forgings, etc. 368,604; June 27; Serial No. 411,488; published Apr. 11, 1939. Class 14.
Brown Durrell Co., Boston, Mass., and New York, N. Y. Hosiery. 368,684; June 27; Serial No. 415,375; published Apr. 11, 1939. Class 39.
Brown Manufacturing Company, Clinton, Mo. Game of Chinese checkers. 368,655; June 27; Serial No. 414,814; published Feb. 21, 1939. Class 22.
Buscarlet Glove Company Inc., New York, N. Y. Leather gloves. 368,718; June 27; Serial No. 415,873; published Apr. 18, 1939. Class 39.
Cable Draper Baking Co., assignor to Gordon Baking Company, Detroit, Mich. Bread. 127,344; renewed Nov. 11, 1939.
Calmato Distributing Company. (See Metlar, George W.)
Carnegie, Hattie, Inc., New York, N. Y. Sweaters, knitted suits, hair nets, etc. 368,803; June 27. Class 39.
Catalin Corporation, New York, N. Y. Resins. 368,776; June 27; Serial No. 416,367; published Apr. 18, 1939. Class 16.
Central Steel & Wire Company, assignor to The Indiana Steel Products Company, Chicago, Ill. Special-alloy magnet-steel. 127,010; renewed Oct. 21, 1939.
Century Drug Company. (See Fels, William.)
Chase & Company, Sanford, Fla. Celery. 368,713; June 27; Serial No. 415,766; published Apr. 18, 1939. Class 46.
Cherry-Burrell Corporation, Chicago, Ill. Centrifugal milk and cream test bottle revolving machine. 368,617; June 27; Serial No. 412,947; published Mar. 28, 1939. Class 23.
Cherry-Burrell Corporation, Chicago, Ill. Milk and cream testing apparatus and accessories. 368,627; June 27; Serial No. 413,538; published Mar. 28, 1939. Class 26.
Chilvers, Ellaline W. (See Whitcomb, Georgiana M., assignor.)
Chipman's, Charles, Sons Co., Inc., New York, N. Y. Hosiery. 368,804; June 27. Class 39.
Chocolate Products Company, Chicago, Ill. Ingredients for making puddings. 368,701; June 27; Serial No. 415,582; published Apr. 18, 1939. Class 46.
Climalene Company, The. (See Sierra Chemical Company, assignor.)
Chett, Peabody & Co., Inc., Troy, N. Y. Trousers and shorts. 368,681; June 27; Serial No. 415,325; published Apr. 18, 1939. Class 39.
Coast Envelope & Leather Products Co., Los Angeles, Calif. Leather goods. 368,697; June 27; Serial No. 415,541; published Apr. 11, 1939. Class 3.
Cobbs, Hamilton Company, Des Moines, Iowa. Wall knife holding racks. 368,703; June 27; Serial No. 415,636; published Apr. 18, 1939. Class 13.
Cohen, Halle, Jacksonville, Fla. Blank books. 368,690; June 27; Serial No. 415,470; published Apr. 18, 1939. Class 37.
Cohn, H. C., & Co., Rochester, N. Y. Neckties. 368,738; June 27; Serial No. 416,030; published Apr. 18, 1939. Class 39.
Cohn, H. C., & Co., Rochester, N. Y. Neckties. 368,739; June 27; Serial No. 416,032; published Apr. 18, 1939. Class 39.
Cohn, H. C., & Co., Rochester, N. Y. Neckties. 368,740–1; June 27; Serial Nos. 416,038–9; published Apr. 18, 1939. Class 39.
Colorado Fuel and Iron Corporation, The, Denver, Colo. Poultry netting and other types of metal fencing. 368,801; June 27. Class 13.
Columbia Mills, Inc., The, New York, N. Y. Mounted shades, window shades, and shade rollers. 368,777; June 27; Serial No. 416,370; published Apr. 18, 1939. Class 32.
Columbia Mills, Inc., The, New York, N. Y. Mounted shades, window shades, and shade rollers. 368,798; June 27; Serial No. 416,998; published Apr. 18, 1939. Class 32.
Community Health Foundation. (See Nightingale, Frank J.)
Cone Automatic Machine Company Inc., Windsor, Vt. Automatic lathes and screw machines. 368,808; June 27. Class 23.
Continental Radio & Television Corp., Chicago, Ill. Radio circuit unit. 368,726; June 27; Serial No. 415,977; published Apr. 18, 1939. Class 21.
Continental Shoe Corporation, Boston, Mass. Boots and shoes. 368,685; June 27; Serial No. 415,382; published Apr. 18, 1939. Class 39.
Cook, A. B., Los Angeles, Calif. Beverages. 368,698; June 27; Serial No. 415,542; published Apr. 18, 1939. Class 45.

Cooperative Handcrafts Incorporated of Puerto Rico, Santurce, P. R., and New York, N. Y. Underwear, pajamas, slips, etc. 368,708; June 27; Serial No. 415,705; published Apr. 18, 1939. Class 39.
Crucible Steel Company of America, Pittsburgh, Pa., to Crucible Steel Company of America, New York, N. Y. Steel. 125,413–14; renewed May 20, 1939.
Crucible Steel Company of America, Pittsburgh, Pa., to Crucible Steel Company of America, New York, N. Y. Steel. 125,725; renewed June 10, 1939.
Cut Flower Food Co., not inc. (See Meyer, August A.)
Daviess County Distilling Company, Inc., The, Owensboro, Ky. Whiskey. 368,771; June 27; Serial No. 416,316; published Apr. 18, 1939. Class 49.
Decker, Alfred, & Cohn, Inc., Chicago, Ill. Men's suits. 368,603; June 27; Serial No. 411,482; published Apr. 18, 1939. Class 39.
Dell Publishing Company, New York, N. Y. Cartoon or comic strips. 368,657–8; June 27; Serial Nos. 414,865–6; published Apr. 11, 1939. Class 38.
Denney, Frances, Philadelphia, Pa. Toilet preparations. 368,727; June 27; Serial No. 415,978; published Apr. 18, 1939. Class 6.
Dickerson & Company, Detroit, Mich. Men's hats. 368,626; June 27; Serial No. 413,473; published Apr. 18, 1939. Class 39.
Dickman, Hyman, doing business as Olpen Products, Washington, D. C. Antiseptic oil. 368,717; June 27; Serial No. 415,838; published Apr. 18, 1939. Class 6.
Dodge, Incorporated, Los Angeles, Calif. Tableware. 368,579; June 27; Serial No. 404,296; published Apr. 18, 1939. Class 28.
Dustan, F. W., & Son, Clarkston, Wash. Canned fruits, vegetables, and tomato juice. 368,555; June 27; Serial No. 380,761; published Apr. 18, 1939. Class 46.
Earshen, James J., Buffalo, N. Y. Bleaching preparation. 368,610; June 27; Serial No. 412,076; published Apr. 11, 1939. Class 6.
Earshen, James J., Buffalo, N. Y. Anti-freezing preparation. 368,611; June 27; Serial No. 412,077; published Apr. 11, 1939. Class 6.
Eastern Clay Products, Inc., Elfort, Ohio. Bonding clays. 368,589; June 27; Serial No. 409,029; published Apr. 18, 1939. Class 1.
Eastern Isles Importing Co., Inc., The, New York, N. Y. Pajamas. 368,578; June 27; Serial No. 404,036; published May 17, 1938. Class 39.
Edmond, Queen Marie's Beautician, Inc., New York, N. Y. Face creams, shampoos. 368,638; June 27; Serial No. 414,026; published Apr. 4, 1939. Class 6.
Electro Acoustic Products Co., Fort Wayne, Ind. Phonograph and radio combination. 368,572; June 27; Serial No. 403,001; published Apr. 18, 1939. Class 36.
Emfo Corporation, The, New York, N. Y. Astringents, beauty creams, cold creams, etc. 368,742; June 27; Serial No. 416,056; published Apr. 18, 1939. Class 6.
Emfo Corporation, The, New York, N. Y. Saponaceous compounds, shaving cream, shaving sticks, etc. 368,743–4; June 27; Serial Nos. 416,057–8; published Apr. 18, 1939. Class 4.
Emfo Corporation, The, New York, N. Y. Astringents, beauty creams, cold creams, etc. 368,745; June 27; Serial No. 416,059; published Apr. 18, 1939. Class 6.
Empire Imports, New York, N. Y. Sports apparel. 368,806; June 27. Class 39.
Esmond Mills, The, New York, N. Y. Woven textile blankets. 368,562; June 27; Serial No. 399,753; published Nov. 8, 1938. Class 42.
Eton Corporation, New York, N. Y. Ladies', misses', and girls' hats. 368,678; June 27; Serial No. 415,287; published Apr. 18, 1939. Class 39.
Etta Perfumes, New York, N. Y. Perfumes, eau de cologne, face powders, etc. 368,565; June 27; Serial No. 401,104; published Apr. 18, 1939. Class 6.
Euclid Candy Co. of Illinois, Inc., The, Chicago, Ill. Candy. 368,641; June 27; Serial No. 414,174; published Apr. 18, 1939. Class 46.
Evans Products Company, Detroit, Mich. Valves. 368,566; June 27; Serial No. 401,476; published Apr. 18, 1939. Class 13.
Evans Products Company, Detroit, Mich. Valve for use in water cooling systems of internal combustion engines. 368,573; June 27; Serial No. 403,243; published Apr. 18, 1939. Class 26.
Evans Products Company, Detroit, Mich. Grade crossing protectors. 368,574; June 27; Serial No. 403,244; published Apr. 18, 1939. Class 23.
Evans Products Company, Detroit, Mich. Heaters for motor vehicles. 368,575; June 27; Serial No. 403,246; published Apr. 18, 1939. Class 19.
Faem Products, Pittsburgh, Pa. Lotions and other preparations for external application. 368,633; June 27; Serial No. 413,824; published Apr. 18, 1939. Class 6.
Faith, Charles, doing business as Vigro Health Products Company, Cincinnati, Ohio. Alfalfa tea. 368,594; June 27; Serial No. 409,808; published Apr. 18, 1939. Class 46.
Famous Products Co. (See Neumann, Morton G.)
Farmer, Fanny, Candy Shops, Inc., Rochester, N. Y. Candy. 126,844; renewed Oct. 7, 1939.
Federal-Mogul Corporation, Detroit, Mich. Bearing metal alloys and unfinished or partly finished castings and forgings. 368,607; June 27; Serial No. 411,861; published Apr. 18, 1939. Class 14.
Feigenbaum & Adelson, Inc., New York, N. Y. Dresses. 368,666; June 27; Serial No. 414,991; published Apr. 11, 1939. Class 39.
Fels, William, doing business as Century Drug Company, New York, N. Y. Emmenagogue tablets. 368,750; June 27; Serial No. 416,096; published Apr. 18, 1939. Class 6.
Fels, William, doing business as Century Drug Company, New York, N. Y. Aphrodisiac tablets. 368,751; June 27; Serial No. 416,097; published Apr. 18, 1939. Class 6.
Felton Chemical Co. Inc., New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. 368,709; June 27; Serial No. 415,710; published Apr. 18, 1939. Class 6.
Ferst, M. A., Ltd., Atlanta, Ga. Pencils and leads. 368,649; June 27; Serial No. 414,629; published Apr. 18, 1939. Class 37.
Finch, Miles L., doing business as Associate British Mfrs., New York, N. Y. Woolen and worsted textile fabrics in the piece. 368,814; June 27. Class 42.
Firestone Tire & Rubber Company, The, Akron, Ohio. Resilient tires. 368,598; June 27; Serial No. 410,462; published Apr. 18, 1939. Class 35.
Fischbacher, Christian, Co., St. Gall, Switzerland. Cotton, rayon, and wool. 368,630; June 27; Serial No. 413,665; published Apr. 18, 1939. Class 42.
Fitzpatrick, W. J., Company, The, Chicago, Ill. Flour. 368,632; June 27; Serial No. 413,705; published Apr. 18, 1939. Class 46.
Four Penny Products Co., Chicago, Ill. Dandruff remover shampoo and dandruff remover tonic. 368,728; June 27; Serial No. 415,982; published Apr. 18, 1939. Class 6.
Frito Company, The, Dallas, Tex. Potato chips. 368,656; June 27; Serial No. 414,852; published Apr. 18, 1939. Class 46.
Frohlich Laboratories, Incorporated, Seattle, Wash. Preparation for destroying hair. 368,559; June 27; Serial No. 395,912; published Feb. 15, 1938. Class 6.
General Chemical Company, New York, N. Y. Reagent chemicals. 368,646–7; June 27; Serial Nos. 414,293–4; published Apr. 4, 1939. Class 6.
Glaquinto, Daniel, Woodside, N. Y. Adhesive remover preparation. 368,784; June 27; Serial No. 416,507; published Apr. 18, 1939. Class 6.
Glex Corporation, Wheaton, Ill. Cough squares. 368,704; June 27; Serial No. 415,645; published Apr. 18, 1939. Class 6.
Glick, Ernest, doing business as Ernest Glick Company, Chicago, Ill. Neckties and mufflers. 368,650; June 27; Serial No. 414,630; published Apr. 18, 1939. Class 39.
Gordon Baking Company. (See Cable Draper Baking Co., assignor.)
Grant, W. T., Company, New York, N. Y. Enameled steel cooking hollowware. 368,667; June 27; Serial No. 414,993; published Apr. 18, 1939. Class 13.
Gummed Products Company, The, Troy, Ohio. Gummed paper tape. 368,811; June 27. Class 37.
Gut, Sigbert, doing business as Sigbert Gut, Cortesca Jersey Manufaktur, Zurich, Switzerland. Dresses, underwear, and bathing suits. 368,601; June 27; Serial No. 411,053; published Apr. 18, 1939. Class 39.
Haspel Bros., Inc., New Orleans, La. Men's suits. 368,602; June 27; Serial No. 411,093; published Apr. 18, 1939. Class 39.
Hearn Department Stores, Inc., New York, N. Y. Toilet and laundry soaps; brushless shaving cream, etc. 368,580; June 27; Serial No. 404,607; published July 19, 1938. Class 4.
Heller Brothers Company. (See Rex File Company, The, assignor.)
Heller Brothers Company, Newark, N. J. Files. 368,746; June 27; Serial No. 416,064; published Apr. 18, 1939. Class 23.
Hercules Powder Company, Wilmington, Del. Oil used as a dyeing assistant and penetrant in the dyeing of textiles. 368,586; June 27; Serial No. 408,241; published Oct. 11, 1938. Class 6.
Hermes, S. A., Paris, France. Jewelry, precious stones, gold knives, etc. 368,785; June 27; Serial No. 416,562; published Apr. 18, 1939. Class 28.
Herpolsheimer Company, Grand Rapids, Mich. Women's shoes. 368,642; June 27; Serial No. 414,188; published Apr. 18, 1939. Class 39.
Hoffman, Louis, New York, N. Y. Yarn. 368,651; June 27; Serial No. 414,737; published Apr. 18, 1939. Class 43.
Hommel, Wm. H., doing business as The M. Hommel Wine Co., Sandusky, Ohio. Wines. 368,560; June 27; Serial No. 398,620; published Apr. 18, 1939. Class 47.
Hovden Food Products Corporation. (See Santa Cruz Canning Corporation, assignor.)
Independent Pharmacy, Eclectic, Ala. Mustard ointment. 368,756; June 27; Serial No. 416,189; published Apr. 18, 1939. Class 6.
Indiana Steel Products Company, The. (See Central Steel & Wire Company, assignor.)
International Corset Company, Aurora, Ill. Corsets and foundation garments. 368,679; June 27; Serial No. 415,293; published Apr. 18, 1939. Class 39.

International Radio Corporation, Ann Arbor, Mich. Photographic chemicals. 368,634; June 27; Serial No. 413,870; published Apr. 4, 1939. Class 6.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 368,635–6; June 27; Serial Nos. 413,907–8; published Apr. 11, 1939. Class 39.
Jacobson, Solomon, doing business as I. Jacobson & Son, Lynbrook, N. Y. Footwear. 368,631; June 27; Serial No. 413,676; published Apr. 18, 1939. Class 39.
James Manufacturing Company, Fort Atkinson, Wis. Barn equipment. 126,552; renewed Sept. 16, 1939.
Jantzen Knitting Mills, Portland, Oreg. Swimming suits. 368,714; June 27; Serial No. 415,782; published Apr. 18, 1939. Class 39.
Jensen, Georg, & Wendel A/S, Copenhagen, Denmark. Bracelets, brooches, etc. 368,747; June 27; Serial No. 416,067; published Apr. 18, 1939. Class 28.
Johns-Manville Corporation, New York, N. Y. Monolithic acoustical tile. 368,757; June 27; Serial No. 416,191; published Apr. 18, 1939. Class 12.
Kaplan, Joseph A., Inc., New York, N. Y. Shower curtains. 368,692; June 27; Serial No. 415,513; published Apr. 18, 1939. Class 13.
Karo Knit Fabrics, Inc., New York, N. Y. Cotton knitted fabrics in the piece. 368,810; June 27. Class 42.
Kenosha Full Fashioned Mills, Inc., Kenosha, Wis. Hosiery. 368,705; June 27; Serial No. 415,653; published Apr. 11, 1939. Class 39.
King Midas Flour Mills. (See Shane Bros. & Wilson Co.)
Kinney, G. R., Co., Inc., New York, N. Y. Shoes and hosiery. 368,568–9; June 27; Serial Nos. 402,226–7; published Apr. 18, 1939. Class 39.
Knox Company, The, Los Angeles, Calif. Preparations for conditions such as may result from high blood pressure. 368,792; June 27; Serial No. 416,804; published Apr. 18, 1939. Class 6.
Krakaur, Eugene K., Roosevelt, N. Y. Package sealers. 368,588; June 27; Serial No. 408,924; published Apr. 18, 1939. Class 37.
La Grange Mills, Red Wing, Minn. Wheat-flour. 127,073; renewed Oct. 21, 1939.
Lande & Miskend, Inc., New York, N. Y. Underwear, blouses, dresses. 368,691; June 27; Serial No. 415,480; published Apr. 18, 1939. Class 39.
Lane Company, Inc., The, Altavista, Va. Cedar wardrobes, Chifforobes, closets, etc. 368,807; June 27. Class 32.
La Vel Company, Los Angeles, Calif. Brassière, girdle, and pantie combination garment. 368,706; June 27; Serial No. 415,654; published Apr. 18, 1939. Class 39.
Leatherwear Company, Inc., Middletown, N. Y. Tobacco pouches. 368,800; June 27. Class 8.
Lesco Ltd., New York, N. Y. Handbags. 368,668; June 27; Serial No. 415,167; published Apr. 11, 1939. Class 3.
Linde Air Products Company, The, New York, N. Y. Oxygen. 368,652; June 27; Serial No. 414,763; published Apr. 18, 1939. Class 6.
Litsch, George M., Mahanoy City, Pa. Ointments, lotions, and dusting powders. 368,772; June 27; Serial No. 416,328; published Apr. 4, 1939. Class 6.
Litsch, George M., Mahanoy City, Pa. Liquid soap and soap cake. 368,773; June 27; Serial No. 416,329; published Apr. 18, 1939. Class 4.
Loeser Laboratory, Incorporated, New York, N. Y. Estrogenic hormone in oil. 368,786; June 27; Serial No. 416,568; published Apr. 11, 1939. Class 6.
Lofty G. m. b. H., Zurich, Switzerland. Caps and hats. 368,616; June 27; Serial No. 412,820; published Apr. 18, 1939. Class 39.
Long, Vernon P., Berkeley, Calif. Film slides and motion picture film. 368,637; June 27; Serial No. 413,953; published Apr. 18, 1939. Class 26.
Mackintosh, John, & Sons, Limited, Waterside, England. Candy. 368,748; June 27; Serial No. 416,070; published Apr. 18, 1939. Class 46.
Manhattan Shirt Company, The, New York, N. Y. Pajamas. 368,605; June 27; Serial No. 411,541; published Apr. 11, 1939. Class 39.
Marchand, Charles, Company, The, New York, N. Y. Perfumes. 368,763; June 27; Serial No. 416,261; published Apr. 18, 1939. Class 6.
Marnon, Edward S., Portland, Oreg. Lift-trucks. 368,587; June 27; Serial No. 408,410; published Apr. 18, 1939. Class 19.
Marx & Kushner, New York, N. Y. Bath oil, toilet water, dusting powder, etc. 368,563; June 27; Serial No. 400,566; published Mar. 15, 1938. Class 6.
Mastin Products, Inc., New York, N. Y. Device impregnated with lotion to be applied to the eyes. 368,719; June 27; Serial No. 415,952; published Apr. 18, 1939. Class 6.
Mastin Products, Inc., New York, N. Y. Eye lotion. 368,720; June 27; Serial No. 415,953; published Apr. 18, 1939. Class 6.
McCleary Bros., Inc., Memphis, Tenn. Pressing machines. 368,729; June 27; Serial No. 415,992; published Apr. 11, 1939. Class 24.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Preparation for the treatment of asthma, hay fever, etc. 368,707; June 27; Serial No. 415,660; published Apr. 18, 1939. Class 6.
Metlar, George W., doing business as Calmato Distributing Company, San Francisco, Calif. Canned tomato paste. 368,764; June 27; Serial No. 416,262; published Apr. 18, 1939. Class 46.
Meyer, August A., doing business as Cut Flower Food Co., not inc., Maywood, Ill. Composition for strengthening, sterilizing, feeding, and promoting the development of cut plants. 368,753; June 27; Serial No. 416,154; published Apr. 18, 1939. Class 6.
Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 368,686; June 27; Serial No. 415,408; published Apr. 18, 1939. Class 39.
Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 368,687; June 27; Serial No. 415,410; published Apr. 18, 1939. Class 39.
Millinery Merchandising Executives Association, Inc., New York, N. Y. Ladies' hats. 368,721; June 27; Serial No. 415,955; published Apr. 18, 1939. Class 39.
Miranda, Alberto, Orange, N. J. Medicinal salve. 368,663–4; June 27; Serial Nos. 414,937–8; published Apr. 11, 1939. Class 6.
Monarch Machine Tool Company, The, Sidney, Ohio. Lathes. 368,802; June 27. Class 23.
Monticello Shirt Company, Charlottesville, Va. Union suits, shorts, pajamas, etc. 368,689; June 27; Serial No. 415,460; published Apr. 18, 1939. Class 39.
Moreno Brothers, Inc., Los Angeles, Calif. Fresh citrus and deciduous fruit, and fresh vegetables. 368,805; June 27. Class 46.
Morrell, John, & Co., Ottumwa, Iowa. Vegetable shortening. 127,641; renewed Nov. 18, 1939.
Muskegon Manufacturing Company, Inc., Muskegon, Mich. Ladies' overalls, children's overalls, playsuits, etc. 368,659; June 27; Serial No. 414,881; published Apr. 18, 1939. Class 39.
National Oil Marketers Association, Washington, D. C. Magazine. 368,577; June 27; Serial No. 403,608; published Apr. 18, 1939. Class 38.
Neumann, Morton G., doing business as Famous Products Co., Chicago, Ill. Incense, liquid perfume, solid perfume, etc. 368,730; June 27; Serial No. 415,995; published Apr. 18, 1939. Class 6.
Neumann, Morton G., doing business as Famous Products Co., Chicago, Ill. Perfume, vanishing cream, lemon cleansing cream, etc. 368,775; June 27; Serial No. 416,356; published Apr. 4, 1939. Class 6.
Nichols, H. W., Salesbook Co., Cincinnati, Ohio. Record books. 368,813; June 27. Class 37.
Nightingale, Frank J., doing business as Community Health Foundation, San Diego, Calif. Tonic laxative. 368,722; June 27; Serial No. 415,960; published Apr. 18, 1939. Class 6.
Nore, Ethel Lea, Inc., New York and Brooklyn, N. Y. Cosmetics. 368,591; June 27; Serial No. 409,279; published Apr. 4, 1939. Class 6.
North American Electric Lamp Company, St. Louis, Mo. Electric lamps. 368,723; June 27; Serial No. 415,961; published Apr. 18, 1939. Class 21.
North American Rayon Corporation, New York, N. Y. Yarn. 368,570; June 27; Serial No. 402,583; published Apr. 11, 1939. Class 43.
Northern Paper Mills, Green Bay, Wis. Facial tissue. 368,699; June 27; Serial No. 415,565; published Apr. 18, 1939. Class 37.
Northwestern Chemical Co., The, assignor to Atlas Chemical Company, Marietta, Ohio. Valve-grinding compound, clutch and brake compound, etc. 127,464; renewed Nov. 11, 1939.
Northwestern Chemical Co., The, assignor to Atlas Chemical Company, Marietta, Ohio. Air drying enamel, paint, varnish, etc. 127,656; renewed Nov. 18, 1939.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Local anesthetic material. 368,710–11; June 27; Serial Nos. 415,734–5; published Apr. 18, 1939. Class 6.
Oberman & Company, Jefferson City, Mo. Outer shirts, pants, and jackets. 368,556; June 27; Serial No. 388,363; published Apr. 11, 1939. Class 39.
Olpen Products. (See Dickman, Hyman.)
Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Silver plated flatware and hollowware. 368,789; June 27; Serial No. 416,655; published Apr. 18, 1939. Class 28.
Ostby and Barton Company, Providence, R. I. Jewelry. 368,693; June 27; Serial No. 415,519; published Apr. 11, 1939. Class 28.
Paraffine Companies, Inc., The, San Francisco, Calif. Paints, paint enamels, lacquers, etc. 368,660; June 27; Serial No. 414,888; published Apr. 18, 1939. Class 16.
Parfumerie Roger et Gallet, Société Anonyme, Paris, France. Perfumes, toilet waters, face and toilet powders, etc. 368,787; June 27; Serial No. 416,580; published Apr. 11, 1939. Class 6.
Parkes, Josiah, & Sons, Limited, Willenhall, England. Locks. 368,564; June 27; Serial No. 400,655; published Feb. 1, 1938. Class 25.
Parrot Speed Fastener Corporation, New York and Long Island City, N. Y. Machine staples. 368,599; June 27; Serial No. 410,494; published Apr. 18, 1939. Class 13.
Peninsular Chemical Co., Detroit, Mich., now, by change of name to The Penslar Company. Shaving-cream. 127,474; renewed Nov. 11, 1939.
Penslar Company, The. (See Peninsular Chemical Co.)

Philadelphia Acceptance Corporation, Philadelphia, Pa. Blank forms. 368,673; June 27; Serial No. 415,202; published Apr. 18, 1939. Class 37.
Philstan Products Company, Philadelphia, Pa. Slide fasteners. 368,682; June 27; Serial No. 415,349; published Apr. 18, 1939. Class 13.
Pine, Morton S., Co., The, Cleveland, Ohio. Liquid detergent. 368,653; June 27; Serial No. 414,798; published Apr. 18, 1939. Class 4.
Polikoff Limited, London, England. Coats, trousers, vests, etc. 368,612; June 27; Serial No. 412,354; published Apr. 11, 1939. Class 39.
Powell, Hannah M., doing business as Powell Distributing Company, Philadelphia, Pa. Medicated scalp ointment and shampoo preparation. 368,615; June 27; Serial No. 412,461; published Jan. 10, 1939. Class 6.
Progress Paint Manufacturing Company, Louisville, Ky. Paint, varnish, and enamel. 368,715; June 27; Serial No. 415,796; published Apr. 18, 1939. Class 16.
Pure Food Factory "Hansa", Mamaroneck, N. Y. Bouillon-cubes and vegetable and beef extracts. 127,667; renewed Nov. 18, 1939.
Quaker Chemical Products Corp., Conshohocken, Pa. Oleaginous preparation. 368,793; June 27; Serial No. 416,815; published Apr. 18, 1939. Class 6.
Quaker Worsted Mills Corporation, Philadelphia, Pa. Yarns. 368,734; June 27; Serial No. 416,015; published Apr. 18, 1939. Class 43.
Rap-I-Dol Distributing Corporation, New York, N. Y. Publication. 368,661; June 27; Serial No. 414,922; published Apr. 11, 1939. Class 38.
Reiser, Edward A., Dayton, Ohio. Egg cookers. 368,683; June 27; Serial No. 415,351; published Apr. 18, 1939. Class 13.
Remington Rand Inc., Buffalo, N. Y. Typewriters and parts thereof. 368,774; June 27; Serial No. 416,339; published Apr. 18, 1939. Class 23.
Rex File Company, The, Newcomerstown, Ohio, assignor to Heller Brothers Company, Newark, N. J. Files and rasps. 127,486; renewed Nov. 11, 1939.
Rice-Stix Dry Goods Company, St. Louis, Mo. Dresses, slacks, and suits, etc. 368,590; June 27; Serial No. 409,142; published Apr. 11, 1939. Class 39.
Riverbank Canning Company, Riverbank, Calif. Canned tomato paste, fish, vegetables, etc. 368,584; June 27; Serial No. 407,330; published Apr. 18, 1939. Class 46.
Robb, Frank B., doing business as Triad Manufacturing Company, Chagrin Falls, Ohio. Children's combination desk and peg and nailing design play sets. 368,797; June 27; Serial No. 416,967; published Apr. 18, 1939. Class 22.
Roche-Organon, Inc., Nutley, N. J. Medicinal preparations. 368,790; June 27; Serial No. 416,746; published Apr. 18, 1939. Class 6.
Rogers, William R., Everett, Mass. Sodium acetate. 368,621; June 27; Serial No. 413,143; published Apr. 4, 1939. Class 6.
Root Medicine Company. (See Whitcomb, Georgiana M.)
Rosenburg, Alfred, Asbury Park, N. J. Theatrical costumes. 368,669; June 27; Serial No. 415,188; published Apr. 18, 1939. Class 39.
Rumby, Philadelphia, Pa. Bay rum. 368,765; June 27; Serial No. 416,266; published Apr. 4, 1939. Class 6.
Rumby, Philadelphia, Pa. After shaving lotion, hair and scalp preparation. 368,766; June 27; Serial No. 416,267; published Apr. 11, 1939. Class 6.
Ruppert, Jacob, New York, N. Y. Ale. 368,639; June 27; Serial No. 414,043; published Apr. 18, 1939. Class 48.
S. & R. Infants Wear Co., New York, N. Y. Diapers. 368,623; June 27; Serial No. 413,318; published Feb. 7, 1939. Class 39.
Sachnoff, Harry, New York, N. Y. Fountain pens. 368,812; June 27. Class 37.
Sandy Valley Grocery Company, Ashland, Ky. Baking soda. 368,769; June 27; Serial No. 416,297; published Apr. 4, 1939. Class 6.
Santa Cruz Canning Corporation, San Francisco and Santa Cruz, assignor, by mesne assignments, to Hovden Food Products Corporation, Monterey, Calif. Canned sardines, canned peaches, and canned tomatoes with purée from trimmings. 127,678; renewed Nov. 18, 1939.
Schering Corporation, Bloomfield, N. J. Medicinal preparation. 368,795; June 27; Serial No. 416,921 published Apr. 18, 1939. Class 6.
Schieffelin & Co., New York, N. Y. Preparation of estradiol-17-propionate. 368,731; June 27; Serial No. 416,000; published Apr. 4, 1939. Class 6.
Schlesinger Bros., Philadelphia, Pa. Wallets. 368,749; June 27; Serial No. 416,073; published Apr. 18, 1939. Class 3.
Schlesische Zellwolle Aktiengesellschaft, Hirschberg/Riesengebirge, Germany. Textile fibers. 368,608–9; June 27; Serial Nos. 411,971–2; published Apr. 18, 1939. Class 1.
Schnederson, I., & Sons, Inc., New York, N. Y. Chemises, princess slips, bloomers, etc. 368,716; June 27; Serial No. 415,797; published Apr. 18, 1939. Class 39.
Schrader, J., Company, Cleveland, Ohio. Electric bed lamps. 368,677; June 27; Serial No. 415,278; published Apr. 18, 1939. Class 21.
Scott, Henry L., Company, Providence, R. I. Tension, compression, and fatigue testing machines. 368,735; June 27; Serial No. 416,017; published Apr. 18, 1939. Class 26.
Sealco By-Products Company, Inc., Bluefield, W. Va. Silver polish, lens polish, etc. 368,662; June 27; Serial No. 414,926; published Apr. 18, 1939. Class 4.
Sears, Roebuck and Co., Chicago, Ill. Seat covers. 368,670; June 27; Serial No. 415,189; published Apr. 18, 1939. Class 19.
Seneca Textile Corporation, New York, N. Y. Piece goods. 368,606; June 27; Serial No. 411,661; published Feb. 7, 1939. Class 42.
Shane Bros. & Wilson Co., Philadelphia and Millbourne, Pa., and Minneapolis, Minn., to Van Dusen Harrington Co., doing business as King Midas Flour Mills, Minneapolis, Minn., successor. Wheat-flour. 124,768; renewed Mar. 11, 1939.
Sherwood Brothers Incorporated, Baltimore, Md. Automatic fuel oil burners. 368,778; June 27; Serial No. 416,389; published Apr. 18, 1939. Class 34.
Shipman, Louis, & Baker Co., New York, N. Y. Women's coats. 368,645; June 27; Serial No. 414,277; published Apr. 18, 1939. Class 39.
Shulman, Frank, Boston, Mass. Women's coats. 368,809; June 27. Class 39.
Sierra Chemical Company, Los Angeles, Calif., assignor to The Climalene Company, Canton, Ohio. Water-softening compound. 126,480; renewed Aug. 26, 1939.
Sierra Chemical Company, Los Angeles, Calif., assignor to The Climalene Company, Canton, Ohio. Water-softening compound. 127,506; renewed Nov. 11, 1939.
Smith, Robert H., doing business as The Bazon Company, Spartanburg, S. C. Ointment. 368,754; June 27; Serial No. 416,162; published Apr. 11, 1939. Class 6.
Snell-Jones Tack Corporation, Brockton, Mass. Glaziers' points. 368,758; June 27; Serial No. 416,208; published Apr. 18, 1939. Class 13.
Snowtex Chemical Co., Melrose, Mass. Laundry bleach. 368,596; June 27; Serial No. 410,240; published Dec. 27, 1938. Class 6.
Southern Handkerchief Manufacturing Co., Greenville, S. C. Handkerchiefs. 368,799; June 27. Class 39.
Southport Paint Company, Inc., Savannah, Ga. Caulking compound. 368,671; June 27; Serial No. 415,193; published Apr. 11, 1939. Class 12.
Southport Paint Company, Inc., Savannah, Ga. Roofcoating material. 368,672; June 27; Serial No. 415,194; published Apr. 11, 1939. Class 12.
Speare Glove Company, Gloversville, N. Y. Leather gloves. 368,680; June 27; Serial No. 415,306; published Apr. 18, 1939. Class 39.
Spicer and Company, Glendale, Calif. Preparations of sulfanilamide (para-amino-benzene-sulfon-amide). 368,557; June 27; Serial No. 393,557; published Aug. 31, 1939. Class 6.
Stillman Company, The. (See Bereman, James H.)
Stratos, Dan D., Mansfield, Ohio. Lemon beverage, or a lemon concentrate, or syrup, for making the same. 368,628; June 27; Serial No. 413,603; published Apr. 18, 1939. Class 45.
Stylart Company, The. (See Bliss, Guerin J.)
Summers, Andrew G., Portales, N. Mex. Medicinal preparation. 368,752; June 27; Serial No. 416,129; published Apr. 18, 1939. Class 6.
Sunrise Distributing Company, The, Cleveland, Ohio. Beer and ale. 368,736; June 27; Serial No. 416,020; published Apr. 18, 1939. Class 48.
Sunshine State Hatcheries Inc., Sioux Falls, S. Dak. Feeds. 368,629; June 27; Serial No. 413,604; published Apr. 18, 1939. Class 46.
Supan, Milton T., doing business as Supan's Ink Co., Red Bluff, Calif. Writing ink. 368,675; June 27; Serial No. 415,270; published Apr. 11, 1939. Class 11.
Swan-Finch Oil Corporation, New York, N. Y. Lubricating oils and greases. 368,779; June 27; Serial No. 416,393; published Apr. 18, 1939. Class 15.
Tennex Company, The, San Francisco, Calif. Fudge and cake icing mix. 368,759; June 27; Serial No. 416,210; published Apr. 18, 1939. Class 46.
Tetley, Joseph, & Co., London, England, assignor, by mesne assignments, to Joseph Tetley & Co. Inc., New York, N. Y. Tea. 17,082; re-renewed Oct. 1, 1939.
Texas Company, The, Houston, Tex., and New York, N. Y., assignor to The Texas Company, New York, N. Y. Petroleum products. 127,518; renewed Nov. 11, 1939.
Timken Roller Bearing Company, The, Canton, Ohio. Steel in the form of billets. 368,613; June 27; Serial No. 412,396; published Apr. 18, 1939. Class 14.
Tire and Rim Association, Inc., The, Cleveland, Ohio, Vehicle wheels, and rims therefor. 368,760–1; June 27; Serial Nos. 416,211–12; published Apr. 18, 1939. Class 19.
Titan Co. A/S, Fredrikstad, Norway. Oxides, hydroxides, and other salts of metals. 368,643–4; June 27; Serial Nos. 414,243–4; published Apr. 18, 1939. Class 6.
Tobin Packing Company Incorporated, The, Fort Dodge, Iowa. Cooked ham. 368,654; June 27; Serial No. 414,804; published Apr. 18, 1939. Class 46.
Torrey, Thomas F., Lynchburg, Va. Spot remover. 368,597; June 27; Serial No. 410,345; published Nov. 1, 1938. Class 4.
Towle Manufacturing Company, Newburyport, Mass. Silver and silver mounted flatware and hollowware. 368,796; June 27; Serial No. 416,927; published Apr. 18, 1939. Class 28.
Townsend, W. S., Miami Beach, Fla. Games. 368,788; June 27; Serial No. 416,588; published Apr. 18, 1939. Class 22.

Trabert & Hoeffer Inc., New York, N. Y. Cat's-eyes. 368,676; June 27; Serial No. 415,272; published Apr. 18, 1939. Class 28.
Triad Manufacturing Company. (See Robb, Frank B.)
Trimfoot. (See Wizard Lightfoot Appliance Co.)
Trippe Manufacturing Company, Chicago, Ill. Electric head lamps. 368,724; June 27; Serial No. 415,971; published Apr. 18, 1939. Class 21.
Truscon Steel Company, Youngstown, Ohio. Construction materials. 126,795; renewed Sept. 30, 1939.
United Cigar-Whelan Stores Corporation, New York, N. Y. Playing cards. 368,780; June 27; Serial No. 416,394; published Apr. 18, 1939. Class 22.
United Elastic Corporation, Easthampton, Mass. Rubber thread. 368,732; June 27; Serial No. 416,002; published Apr. 18, 1939. Class 43.
Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y., now by change of name to Utica and Mohawk Cotton Mills, Inc. Sheets, sheeting, pillow-cases, etc. 126,911; renewed Oct. 7, 1939.
Van Cleef Bros., Chicago, Ill. Adhesive type tape. 368,585; June 27; Serial No. 407,339; published Apr. 11, 1939. Class 5.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Chemical. 368,767; June 27; Serial No. 416,272; published Apr. 4, 1939. Class 6.
Van Dusen Harrington Co. (See Shane Bros. & Wilson Co.)
Vanity Corset Company, Inc., New York, N. Y. Corsets, corselets, girdles, etc. 368,665; June 27; Serial No. 414,974; published Apr. 18, 1939. Class 39.
Vigro Health Products Company. (See Faith, Charles.)
Viking Steel Corporation, New York, N. Y. Steel. 368,648; June 27; Serial No. 414,476; published Apr. 18, 1939. Class 14.
Vinton Hybrid Corn Company, Vinton, Iowa. Hybrid seed corn. 368,815; June 27. Class 1.
Vitapil S. A., Dickirch, Luxemburg. Products for stimulating the growth of hair and for softening the skin, etc. 368,618; June 27; Serial No. 412,987; published Apr. 11, 1939. Class 6.
Vogt, C. E., Candy Co., Chicago, Ill. Chocolate coated candy. 368,694; June 27; Serial No. 415,530; published Apr. 18, 1939. Class 46.
Wagner's, W. T., Sons Company, The, Cincinnati, Ohio. Soft drinks, carbonated beverages, and syrups for making same. 368,781; June 27; Serial No. 416,491; published Apr. 18, 1939. Class 45.
Wender & Goldstein, Inc., New York, N. Y. Men's uniforms. 368,624; June 27; Serial No. 413,325; published Apr. 18, 1939. Class 39.
Western Shade Cloth Co., The, Chicago, Ill. Window shades and rollers. 368,768; June 27; Serial No. 416,276; published Apr. 18, 1939. Class 32.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Oil burners. 368,702; June 27; Serial No. 415,617; published Apr. 18, 1939. Class 34.
Whitcomb, Georgiana M., assignor to E. W. Chilvers, doing business as Root Medicine Company, New York, N. Y. Medicinal treatment for epilepsy. 127,703; renewed Nov. 18, 1939.
Wilmington Chemical Corporation, Wilmington, Del. Chemical raw material. 368,619; June 27; Serial No. 413,056; published Apr. 18, 1939. Class 1.
Wilmington Chemical Corporation, Wilmington, Del. Chemical raw material. 368,620; June 27; Serial No. 413,058; published Apr. 18, 1939. Class 1.
Wizard Lightfoot Appliance Co., also doing business as Trimfoot, St. Louis, Mo. Shoe polishes, cleaners, and creams. 368,593; June 27; Serial No. 409,797; published Apr. 18, 1939. Class 4.
Woodstock Rubber Company Limited, The, Woodstock, Ontario, Canada. Boots, shoes, and slippers. 368,571; June 27; Serial No. 402,659; published Apr. 18, 1939. Class 39.
Yarnall-Waring Company, Philadelphia, Pa. Hardware and plumbing and steam-fitting supplies. 126,809; renewed Oct. 28, 1939.
Yarnall-Waring Company, Philadelphia, Pa. Hardware and plumbing and steam-fitting supplies. 126,976; renewed Oct. 14, 1939.
Yarnall-Waring Company, Philadelphia, Pa. Recording-meters for liquids. 127,169; renewed Oct. 21, 1939.
Yarnall-Waring Company, Philadelphia, Pa. Recording-meters for liquids. 127,257; renewed Oct. 28, 1939.
Your Health Publications, Inc., New York, N. Y. Magazine. 368,733; June 27; Serial No. 416,007 published Apr. 11, 1939. Class 38.

LIST OF REGISTRANTS OF LABELS

Allen Chemical Co. Inc., New York, N. Y. Relaxation for a Safe Corn and Callus Remover. For a Pharmaceutical Preparation for the Removal of Corns and Calluses. 53,170; June 27.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Assorted Cookies. For Assorted Cookies. 53,171; June 27.
Bengué, Inc., Union City, N. J. Baume Bengué. For Analgesic Balm. 53,172; June 27.
Bowser Sales & Trading Corporation, Inc., doing business as Land O' Hills Creamery, Sistersville and Buckhannon, W. Va. Land O' Hills 'Creamery Butter Members W. Va. Retail Grocers Assn.' For Creamery Butter. 53,173; June 27.
Bowser Sales & Trading Corporation, Inc., doing business as Land O' Hills Creamery, Sistersville and Buckhannon, W. Va. Land O' Hills 'W Va B. M. A.' Pure Cream Butter. For Creamery Butter. 53,174; June 27.
Bowser Sales & Trading Corporation, Inc., doing business as Land O' Hills Creamery, Sistersville and Buckhannon, W. Va. Cream Gold 'Creamery Butter Members W. Va. Retail Grocers Assn.' For Creamery Butter. 53,175; June 27.
Brazilian & Arabian Coffee Co., Inc., New York, N. Y. Nectar. For Coffee. 53,176; June 27.
Clayton, A. C., Printing Company, St. Louis, Mo. Distinctive Footwear. For Footwear. 53,177; June 27.
Cocoanut Products Co., Lakeland, Fla. Kokanut Kreme. For a Frozen Dessert. 53,178; June 27.
Gilles, Richard L., doing business as Gilles Products Company, Fargo, N. Dak. Roach Nibs. For an Insecticide. 53,179; June 27.
Green, Howard C., Medina, N. Y. Black Jack. For an Apple Cider Beverage. 53,180; June 27.
Guerrieri, Vincenzo, Tampa, Fla. Tampa Prince. For Cigars. 53,181; June 27.
Gumakers of America, Inc., Clifton Heights, Pa. Dandy. For Chewing Gum. 53,182; June 27.
Gusler's Products Co., Fort Sumner, N. Mex. Gusler's Genuine Non-Crumbling Wallpaper Cleaner. For a Wall-Paper Cleaner. 53,183; June 27.
Gust Corporation, Chicago, Ill. Lazee Lacers. For Adjustable Shoe Laces. 53,184; June 27.
Home Dry Cleaner Laboratories. (See Swimmer, Meyer L.)
Karson Mfg. Co. Inc., New York, N. Y. Automatic Bingo New Exciting Game. For Automatic Game. 53,185; June 27.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Kroger's Twinkle Ice Cream Mix Vanilla Flavor. For an Ice Cream Mix. 53,186; June 27.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Kroger's Twinkle Delicious Chocolate Flavor Ice Cream Mix. For an Ice Cream Mix. 53,187; June 27.
Kronsbein, Katherine, St. Louis, Mo. Virginia Style Potato Chips. For Potato Chips. 53,188; June 27.
Kurlash Company, Inc., The, doing business as The Kurlash Co., Rochester, N. Y. Kurlene for Eyelashes. For Eyelash Cream. 53,189; June 27.
Lamm, Norbert L., St. Louis, Mo. C.-P. Certified Pure Root Beer. For Root Beer. 53,190; June 27.
Land O' Hills Creamery. (See Bowser Sales & Trading Corporation, Inc.)
Lee, Wm. W., & Co., Inc., Watervliet, N. Y. Save the Baby. For Liniment. 53,191; June 27.
Matthes, Carl R., Los Angeles, Calif. Popeye. For Spinach. 53,192; June 27.
Melt Laboratories, Los Angeles, Calif. Melt. For a Depilatory. 53,193; June 27.
Norris Incorporated, Atlanta, Ga. Whims, Norris Exquisite Candies. For Candies. 53,194; June 27.
Osborn Paper Company, Marion, Ind. Golden Rod. For Tablets. 16,330; renewed Apr. 1, 1940.
Plantation Pride Company. (See Rayburn, Madison.)
Porter, E. D., Randolph, Mass. Porter's Wonder Worker. For a Radiator Cleaner. 53,195; June 27.
Porter, Edwin D., Randolph, Mass. Porter Seal. For a Mixture for Sealing Cracked Blocks, Heads, Boilers, and Leaky Radiators. 53,196; June 27.
Rayburn, Madison, doing business as Plantation Pride Company, McMinnville, Tenn. Plantation Pride. For Minced Chicken. 53,197; June 27.
Red-ee Foods, Inc., Los Angeles, Calif. Red-ee. For Prepared Cake Flour. 53,198; June 27.
Rum and Maple Tobacco Corporation, New York, N. Y. Rum and Maple. For a Pipe Mixture of the Finest Selected Tobaccos. 53,199; June 27.
South Side Baking Company, Indianapolis, Ind. Kraft's Dandy. For Bread. 53,200; June 27.
Sterilized Products Corporation, New York, N. Y. Ready-to-Freeze. For an Ice Cream Mixture. 53,201; June 27.
Swimmer, Meyer L., doing business as Home Dry Cleaner Laboratories, Uniontown, Pa. Wind-O-Shine. For a Cleaner for Cleaning and Polishing all Glass Surfaces and Wind-Shields. 53,202; June 27.
Taylor, K., Distilling Co., Inc., The, Frankfort, Ky. K. T. For Kentucky Straight Bourbon Whiskey. 53,203; June 27.
United Frosted Foods, Inc., Chicago, Ill. Four Winds. For Frozen Fresh Green Peas. 53,204; June 27.
Universal Microphone Co., Ltd., Inglewood, Calif. Constant Velocity Frequency Record. For Constant Velocity Frequency Records. 53,205; June 27.
Wood & Champaine, Philadelphia, Pa. Dalnt - Ease. For Suppositories. 53,206; June 27.
Write Incorporated, Bridgeport, Conn. Typ-Rol. For a Type and Roll Refinisher. 53,207; June 27.

LIST OF REGISTRANTS OF PRINTS

Baldwin Laboratories, Inc., Snegertown, Pa. Dwin Insect Killer as Fragrant as Flowers in May—Dwinax the Fragrant Floor Wax. For an Insect Killer and a Floor Wax. 17,462; June 27.

Hamburger, H. L., Baltimore, Md. Dishes Wash Themselves With. For Dishwashing Compounds, Scrubbing Soaps, Oil Soaps, a Tile Enamel and Porcelain Cleaner and Soap Dispensers. 17,463; June 27.

Hamburger, H. L., Baltimore, Md. Furniture Cream Saves the Finish. For Lamb's Wool Applicators, Coal Tar Disinfectants, Fly Sprays, and Metal Polishes. 17,464; June 27.

Musebeck Shoe Company, Danville, Ill. Why Suffer with Your Feet when Health Spot Shoes Will Give You Foot Health and Comfort? People in All Walks of Life Need Health Spot Shoes, Get the Inside Story of Health Spot Shoes. For Shoes. 17,465; June 27.

Musebeck Shoe Company, Danville, Ill. 7 People out of 10 Have or Will Have Foot Trouble, National Foot Health Week, Make Every Week Foot Health Week. For Shoes. 17,466; June 27.

Shulton, Inc., New York, N. Y. Early American—Old Spice Toiletries for Men. For Toiletries for Men. 17,467; June 27.

Tasty Baking Company, Philadelphia, Pa. Junior Tastykake. For Cake. 17,468; June 27.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Clays, Bonding. Eastern Clay Products, Inc. 368,589; June 27; Serial No. 409,029; published Apr. 18, 1939.

Fibers, Textile. Schlesische Zellwolle Aktiengesellschaft. 368,608–9; June 27; Serial Nos. 411,971–2; published Apr. 18, 1939.

Material, Chemical raw. Wilmington Chemical Corporation. 368,619; June 27; Serial No. 413,056; published Apr. 18, 1939.

Material, Chemical raw. Wilmington Chemical Corporation. 368,620; June 27; Serial No. 413,058; published Apr. 18, 1939.

Seed corn, Hybrid. Vinton Hybrid Corn Company. 368,815; June 27.

CLASS 3

Handbags. Lesco Ltd. 368,668; June 27; Serial No. 415,167; published Apr. 11, 1939.

Leather goods. Coast Envelope & Leather Products Co. 368,697; June 27; Serial No. 415,541; published Apr. 11, 1939.

Wallets. Schlesinger Bros. 368,749; June 27; Serial No. 416,073; published Apr. 18, 1939.

CLASS 4

Detergent, Liquid. Morton S. Pine Co. 368,653; June 27; Serial No. 414,798; published Apr. 18, 1939.

Polish, lens polish, etc., Silver. Sealco By-Products Company. 368,662; June 27; Serial No. 414,926; published Apr. 18, 1939.

Polishes, cleaners, and creams, Shoe. Wizard Lightfoot Appliance Co. 368,593; June 27; Serial No. 409,797; published Apr. 18, 1939.

Saponaceous compounds, shaving cream, shaving sticks, etc. Emfo Corporation. 368,743–4; June 27; Serial Nos. 416,057–8; published Apr. 18, 1939.

Shaving-cream. Peninsular Chemical Co. 127,474; renewed Nov. 11, 1939.

Soap and soap cake, Liquid. G. M. Litsch. 368,773; June 27; Serial No. 416,329; published Apr. 18, 1939.

Soaps; brushless shaving cream, etc., Toilet and laundry. Hearn Department Stores, Inc. 368,580; June 27; Serial No. 404,607; published July 10, 1938.

Spot remover. T. F. Torrey. 368,597; June 27; Serial No. 410,345; published Nov. 1, 1938.

Valve-grinding compound, clutch and brake compound, etc. Northwestern Chemical Co. 127,464; renewed Nov. 11, 1939.

CLASS 5

Adhesive cement. American Brake Shoe and Foundry Company. 368,614; June 27; Serial No. 412,402; published Apr. 18, 1939.

Adhesive type tape. Van Cleef Bros. 368,585; June 27; Serial No. 407,339; published Apr. 11, 1939.

Paste and cold water size for use on walls, Wheat. American Brush Corporation. 368,583; June 27; Serial No. 406,744; published Apr. 18, 1939.

CLASS 6

Adhesive remover preparation. D. Giaquinto. 368,784; June 27; Serial No. 416,507; published Apr. 18, 1939.

Anesthetic material, Local. Novocol Chemical Mfg. Co. 368,710–11; June 27; Serial Nos. 415,734–5; published Apr. 18, 1939.

Anti-freezing preparation. J. J. Earshen. 368,611; June 27; Serial No. 412,077; published Apr. 11, 1939.

Antiseptic oil. H. Dickman. 368,717; June 27; Serial No. 415,838; published Apr. 18, 1939.

Aphrodisiac tablets. W. Fels. 368,751; June 27; Serial No. 416,097; published Apr. 18, 1939.

Astringents, beauty creams, cold creams, etc. Emfo Corporation. 368,742; June 27; Serial No. 416,056; published Apr. 18, 1939.

Astringents, beauty creams, cold creams, etc. Emfo Corporation. 368,745; June 27; Serial No. 416,059; published Apr. 18, 1939.

Baking soda. Sandy Valley Grocery Company. 368,769; June 27; Serial No. 416,297; published Apr. 4, 1939.

Bath oil, toilet water, dusting powder, etc. Marx & Kushner. 368,563; June 27; Serial No. 400,566 published Mar. 15, 1938.

Bay rum. Rumby. 368,765; June 27; Serial No. 416,266; published Apr. 4, 1939.

Bleach, Laundry. Snowtex Chemical Co. 368,596; June 27; Serial No. 410,240; published Dec. 27, 1938.

Bleaching preparation. J. J. Earshen. 368,610; June 27; Serial No. 412,076; published Apr. 11, 1939.

Capsule indicated in the treatment of vitamin deficiency. Brewer & Company. 368,791; June 27; Serial No. 416,762; published Apr. 18, 1939.

Chemical. R. T. Vanderbilt Company. 368,767; June 27; Serial No. 416,272; published Apr. 4, 1939.

Chemical agent. Automatic Gasflux Company. 368,576; June 27; Serial No. 403,391; published Apr. 18, 1939.

Chemical agent. Automatic Gasflux Company. 368,762; June 27; Serial No. 416,240; published Apr. 18, 1939.

Chemicals, Photographic. International Radio Corporation. 368,634; June 27; Serial No. 413,870; published Apr. 4, 1939.

Chemicals, Reagent. General Chemical Company. 368,646–7; June 27; Serial Nos. 414,293–4; published Apr. 4, 1939.

Composition for strengthening, sterilizing, feeding, and promoting the development of cut plants. A. A. Meyer. 368,753; June 27; Serial No. 416,154; published Apr. 18, 1939.

Cosmetics. Ethel Lea Nore, Inc. 368,591; June 27; Serial No. 409,279; published Apr. 4, 1939.

Cough squares. Glex Corporation. 368,704; June 27; Serial No. 415,645; published Apr. 18, 1939.

Creams, shampoos, Face. Edmond, Queen Marie's Beautician, Inc. 368,638; June 27; Serial No. 414,026; published Apr. 4, 1939.

Device impregnated with lotion to be applied to the eyes. Mastin Products, Inc. 368,719; June 27; Serial No. 415,952; published Apr. 18, 1939.

Emmenagogue tablets. W. Fels. 368,750; June 27; Serial No. 416,096; published Apr. 18, 1939.

Estradiol-17-propionate, Preparation of. Schieffelin & Co. 368,731; June 27; Serial No. 416,000; published Apr. 4, 1939.

Hair tonic. A. Bilotti. 368,770; June 27; Serial No. 416,308; published Apr. 4, 1939.

Hormone in oil, Estrogenic. Loeser Laboratory, Incorporated. 368,786; June 27; Serial No. 416,568; published Apr. 11, 1939.

Incense, liquid perfume, solid perfume, etc. M. G. Neumann. 368,730; June 27; Serial No. 415,995; published Apr. 18, 1939.

Lotion, Eye. Mastin Products, Inc. 368,720; June 27; Serial No. 415,953; published Apr. 18, 1939.

Lotion, hair and scalp preparation, After shaving. Rumby. 368,766; June 27; Serial No. 416,267; published Apr. 11, 1939.

Lotions and other preparations for external application. Faem Products. 368,633; June 27; Serial No. 413,824; published Apr. 18, 1939.

Medicinal preparation. Schering Corporation. 368,795; June 27; Serial No. 416,921; published Apr. 18, 1939.

Medicinal preparation. A. G. Summers. 368,752; June 27; Serial No. 416,129; published Apr. 18, 1939.

Medicinal preparations. Roche-Organon, Inc. 368,790; June 27; Serial No. 416,746; published Apr. 18, 1939.

Medicinal treatment for epilepsy. G. M. Whitcomb. 127,703; renewed Nov. 18, 1939.

Oil used as a dyeing assistant and penetrant in the dyeing of textiles. Hercules Powder Company. 368,586; June 27; Serial No. 408,241; published Oct. 11, 1938.

Oils and aromatic chemicals, Natural and synthetic essential. Felton Chemical Co. Inc. 368,709; June 27; Serial No. 415,710; published Apr. 18, 1939.

Ointment. R. H. Smith. 368,754; June 27; Serial No. 416,162; published Apr. 11, 1939.

Ointment and shampoo preparation, Medicated scalp. H. M. Powell. 368,615; June 27; Serial No. 412,461; published Jan. 10, 1939.

Ointment, Mustard. Independent Pharmacy. 368,756; June 27; Serial No. 416,189; published Apr. 18, 1939.

Ointments, lotions, and dusting powders. G. M. Litsch. 368,772; June 27; Serial No. 416,328; published Apr. 4, 1939.

Oleaginous preparation. Quaker Chemical Products Corp. 368,793; June 27; Serial No. 416,815; published Apr. 18, 1939.

Oxides, hydroxides, and other salts of metals. Titan Co. A/S. 368,643–4; June 27; Serial Nos. 414,243–4; published Apr. 18, 1939.

Oxygen. Linde Air Products Company. 368,652; June 27; Serial No. 414,763; published Apr. 18, 1939.

Perfume, vanishing cream, lemon cleansing cream, etc. M. G. Neumann. 368,775; June 27; Serial No. 416,356; published Apr. 4, 1939.

Perfumes. Charles Marchand Company. 368,763; June 27; Serial No. 416,261; published Apr. 18, 1939.

Perfumes, eau de cologne, face powders, etc. Etta Perfumes. 368,565; June 27; Serial No. 401,104; published Apr. 18, 1939.

Perfumes, toilet waters, face and toilet powders, etc. Parfumerie Roger et Gallet Société Anonyme. 368,787; June 27; Serial No. 416,580; published Apr. 11, 1939.

Preparation for destroying hair. Frohlich Laboratories, Incorporated. 368,559; June 27; Serial No. 395,912; published Feb. 15, 1938.

Preparation for the treatment of asthma, hay fever, etc. Wm. S. Merrell Company. 368,707; June 27; Serial No. 415,660; published Apr. 18, 1939.

Preparation having germicidal and astringent properties. J. H. Bereman. 368,567; June 27; Serial No. 401,724; published May 3, 1938.

Preparation used in conjunction with permanent waving equipment. G. J. Bliss. 368,783; June 27; Serial No. 416,502; published Apr. 11, 1939.

Preparations for conditions such as may result from high blood pressure. Knox Company. 368,792; June 27; Serial No. 416,804; published Apr. 18, 1939.

Preparations of sulfanilamide (para-amino-benzene-sulfonamide). Spicer and Company. 368,557; June 27; Serial No. 393,557; published Aug. 31, 1937.

Products for stimulating the growth of hair and for softening the skin, etc. Vitapil S. A. 368,618; June 27; Serial No. 412,987; published Apr. 11, 1939.

Salve, Medicinal. A. Miranda. 368,663–4; June 27; Serial Nos. 414,937–8; published Apr. 11, 1939.

Shampoo and dandruff remover tonic, Dandruff remover. Four Penny Products Co. 368,728; June 27; Serial No. 415,982; published Apr. 18, 1939.

Sodium acetate. W. R. Rogers. 368,621; June 27; Serial No. 413,143; published Apr. 4, 1939.

Toilet preparations. F. Denney. 368,727; June 27; Serial No. 415,978; published Apr. 18, 1939.

Tonic laxative. F. J. Nightingale. 368,722; June 27; Serial No. 415,960; published Apr. 18, 1939.

Water-softening compound. Sierra Chemical Company. 126,480; renewed Aug. 26, 1939.

Water-softening compound. Sierra Chemical Company. 127,506; renewed Nov. 11, 1939.

CLASS 8

Tobacco pouches. Leatherwear Company. 368,800; June 27.

CLASS 11

Ink, Writing. M. T. Supan. 368,675; June 27; Serial No. 415,270; published Apr. 11, 1939.

CLASS 12

Caulking compound. Southport Paint Company. 368,671; June 27; Serial No. 415,193; published Apr. 11, 1939.

Construction materials. Truscon Steel Company. 126,795; renewed Sept. 30, 1939.

Roofcoating material. Southport Paint Company. 368,672; June 27; Serial No. 415,194; published Apr. 11, 1939.

Tile, Monolithic acoustical. Johns-Manville Corporation. 368,757; June 27; Serial No. 416,191; published Apr. 18, 1939.

CLASS 13

Barn equipment. James Manufacturing Company. 126,552; renewed Sept. 16, 1939.

Cookers, Egg. E. A. Reiser. 368,683; June 27; Serial No. 415,351; published Apr. 18, 1939.

Fasteners, Slide. Philstan Products Company. 368,682; June 27; Serial No. 415,349; published Apr. 18, 1939.

Glaziers' points. Snell-Jones Tack Corporation. 368,758; June 27; Serial No. 416,208; published Apr. 18, 1939.

Hardware and plumbing and steam-fitting supplies. Yarnall-Waring Company. 126,809; renewed Oct. 28, 1939.

Hardware and plumbing and steam-fitting supplies. Yarnall-Waring Company. 126,976; renewed Oct. 14, 1939.

Hollowware, Enameled steel cooking. W. T. Grant Company. 368,667; June 27; Serial No. 414,993; published Apr. 18, 1939.

Netting and other types of metal fencing, Poultry. Colorado Fuel and Iron Corporation. 368,801; June 27.

Racks, Wall knife holding. Cobbs, Hamilton Company. 368,703; June 27; Serial No. 415,636; published Apr. 18, 1939.

Shower curtains. Joseph A. Kaplan Inc. 368,692; June 27; Serial No. 415,513; published Apr. 18, 1939.

Staples, Machine. Parrot Speed Fastener Corporation. 368,599; June 27; Serial No. 410,494; published Apr. 18, 1939.

Valves. Evans Products Company. 368,566; June 27; Serial No. 401,476; published Apr. 18, 1939.

CLASS 14

Aluminum alloys, castings and forgings, etc. P. Briske. 368,604; June 27; Serial No. 411,488 published Apr. 11, 1939.

Bearing metal alloys and unfinished or partly finished castings and forgings. Federal-Mogul Corporation. 368,607; June 27; Serial No. 411,861; published Apr. 18, 1939.

Steel. Crucible Steel Company of America. 125,413–14; renewed May 20, 1939.

Steel. Crucible Steel Company of America. 125,725; renewed June 10, 1939.

Steel. Viking Steel Corporation. 368,648; June 27; Serial No. 414,476; published Apr. 18, 1939.

Steel in the form of billets. Timken Roller Bearing Company. 368,613; June 27; Serial No. 412,396; published Apr. 18, 1939.

Steel, Special-alloy magnet. Central Steel & Wire Company. 127,010; renewed Oct. 21, 1939.

CLASS 15

Oils and greases, Lubricating. Swan-Finch Oil Corporation. 368,779; June 27; Serial No. 416,393; published Apr. 18, 1939.

Petroleum products. Texas Company. 127,518; renewed Nov. 11, 1939.

CLASS 16

Enamel, paint, varnish, etc., Air-drying. Northwestern Chemical Co. 127,656; renewed Nov. 18, 1939.

Paint, varnish, and enamel. Progress Paint Manufacturing Company. 368,715; June 27; Serial No. 415,796; published Apr. 18, 1939.

Paint, paint enamels, lacquers, etc. Paraffine Companies, Inc. 368,660; June 27; Serial No. 414,888; published Apr. 18, 1939.

Resins. Catalin Corporation. 368,776; June 27; Serial No. 416,367; published Apr. 18, 1939.

CLASS 19

Heaters for motor vehicles. Evans Products Company. 368,575; June 27; Serial No. 403,246; published Apr. 18, 1939.

Lift-trucks. E. S. Marnon. 368,587; June 27; Serial No. 408,410; published Apr. 18, 1939.

Seat covers. Sears, Roebuck and Co. 368,670; June 27; Serial No. 415,189; published Apr. 18, 1939.

Wheels, and rims therefor. Tire and Rim Association, Inc. 368,760–1; June 27; Serial Nos. 416,211–12; published Apr. 18, 1939.

CLASS 21

Lamps, Electric. North American Electric Lamp Company. 368,723; June 27; Serial No. 415,961; published Apr. 18, 1939.

Lamps, Electric bed. J. Schrader Company. 368,677; June 27; Serial No. 415,278; published Apr. 18, 1939.

Lamps, Electric head. Trippe Manufacturing Company. 368,724; June 27; Serial No. 415,971; published Apr. 18, 1939.

Radio circuit unit. Continental Radio & Television Corp. 368,726; June 27; Serial No. 415,977; published Apr. 18, 1939.

CLASS 22

Cards, Playing. United Cigar-Whelan Stores Corporation. 368,780; June 27; Serial No. 416,394; published Apr. 18, 1939.

Dolls. American Character Doll Co. Inc. 368,794; June 27; Serial No. 416,827; published Apr. 18, 1939.

Game of Chinese checkers. Brown Manufacturing Company. 368,655; June 27; Serial No. 414,814; published Feb. 21, 1939.

Games. W. S. Townsend. 368,788; June 27; Serial No. 416,588; published Apr. 18, 1939.

Play sets, Children's combination desk and peg and nailing design. F. B. Robb. 368,797; June 27; Serial No. 416,967; published Apr. 18, 1939.

CLASS 23

Bearings, machinery shaft couplings and slides, Composition. American Brake Shoe and Foundry Company. 368,737; June 27; Serial No. 416,025; published Apr. 18, 1939.

Crossing protectors, Grade. Evans Products Company. 368,574; June 27; Serial No. 403,244; published Apr. 18, 1939.

Files. Heller Brothers Company. 368,746; June 27; Serial No. 416,064; published Apr. 18, 1939.

Files and rasps. Rex File Company. 127,486; renewed Nov. 11, 1939.

Lathes. Monarch Machine Tool Company. 368,802; June 27.

Lathes and screw machines, Automatic. Cone Automatic Machine Company Inc. 368,808; June 27.

Revolving machine, Centrifugal milk and cream test bottle. Cherry-Burrell Corporation. 368,617; June 27; Serial No. 412,947; published Mar. 28, 1939.

Spider, Rubber. Bean Tire & Rubber Works. 368,581; June 27; Serial No. 405,307; published Apr. 18, 1939.
Typewriters and parts thereof. Remington Rand Inc. 368,774; June 27; Serial No. 416,339; published Apr. 18, 1939.

CLASS 24

Ironing machines. Barlow & Seeling Mfg. Co. 368,725; June 27; Serial No. 415,974; published Apr. 11, 1939.
Pressing machines. McCleary Bros., Inc. 368,729; June 27; Serial No. 415,992; published Apr. 11, 1939.

CLASS 25

Locks. Josiah Parkes & Sons, Limited. 368,564; June 27; Serial No. 400,655; published Feb. 1, 1938.

CLASS 26

Film slides and motion picture film. V. P. Long. 368,637; June 27; Serial No. 413,953; published Apr. 18, 1939.
Meters for liquids, Recording. Yarnall-Waring Company. 127,169; renewed Oct. 21, 1939.
Meters for liquids, Recording. Yarnall-Waring Company. 127,257; renewed Oct. 28, 1939.
Milk and cream testing apparatus and accessories. Cherry-Burrell Corporation. 368,627; June 27; Serial No. 413,538; published Mar. 28, 1939.
Ophthalmic mountings and parts thereof. American Optical Company. 368,695–6; June 27; Serial Nos. 415,536–7; published Apr. 18, 1939.
Tension, compression, and fatigue testing machines. Henry L. Scott Company. 368,735; June 27; Serial No. 416,017; published Apr. 18, 1939.
Valves for use in water cooling systems of internal combustion engines. Evans Products Company. 368,573; June 27; Serial No. 403,243; published Apr. 18, 1939.

CLASS 27

Watches. Ludwig Baumann & Company. 368,595; June 27; Serial No. 410,166; published Apr. 18, 1939.

CLASS 28

Bracelets, brooches, etc. Georg Jensen & Wendel A/S. 368,747; June 27; Serial No. 416,067; published Apr. 18, 1939.
Cat's-eyes. Trabert & Hoeffer Inc. 368,676; June 27; Serial No. 415,272; published Apr. 18, 1939.
Flatware and hollowware, Silver and silver mounted. Towle Manufacturing Company. 368,796; June 27; Serial No. 416,927; published Apr. 18, 1939.
Flatware and hollowware, Silver plated. Oneida Ltd. 368,789; June 27; Serial No. 416,655; published Apr. 18, 1939.
Jewelry. Ostby and Barton Company. 368,693; June 27; Serial No. 415,519; published Apr. 11, 1939.
Jewelry, chains and sautoirs. American Jewelry Chain Company. 368,782; June 27; Serial No. 416,498; published Apr. 18, 1939.
Jewelry, precious stones, gold knives, etc. Hermes, S. A. 368,785; June 27; Serial No. 416,562; published Apr. 18, 1939.
Stones, buttons made of precious metal, necklaces, etc., Precious. F. Altschuler-Picard. 368,600; June 27; Serial No. 410,815; published Apr. 11, 1939.
Tableware. Dodge, Incorporated. 368,579; June 27; Serial No. 404,296; published Apr. 18, 1939.

CLASS 32

Shades and rollers, Window. Western Shade Cloth Co. 368,768; June 27; Serial No. 416,276; published Apr. 18, 1939.
Shades, window shades, and shade rollers, Mounted. Columbia Mills, Inc. 368,777; June 27; Serial No. 416,370; published Apr. 18, 1939.
Shades, window shades, and shade rollers, Mounted. Columbia Mills, Inc. 368,798; June 27; Serial No. 416,998; published Apr. 18, 1939.
Wardrobes, chiffonobes, closets, etc., Cedar. Lane Company. 368,807; June 27.

CLASS 34

Air distributors and diffusers for ventilating systems. Anemostat Corporation of America. 368,640; June 27; Serial No. 414,135; published Apr. 18, 1939.
Burners, Automatic fuel oil. Sherwood Brothers Incorporated. 368,778; June 27; Serial No. 416,389; published Apr. 18, 1939.
Burners, Oil. Westinghouse Electric & Manufacturing Company. 368,702; June 27; Serial No. 415,617; published Apr. 18, 1939.
Panels, Air filtering. Air-Maze Corporation. 368,700; June 27; Serial No. 415,572; published Apr. 18, 1939.

CLASS 35

Tires, Resilient. Firestone Tire & Rubber Company. 368,598; June 27; Serial No. 410,462; published Apr. 18, 1939.

CLASS 36

Phonograph and radio combination. Electro Acoustic Products Co. 368,572; June 27; Serial No. 403,001; published Apr. 18, 1939.
Phonograph and timed electrical circuit closing means for the control of certain mechanical and electrical display means. Automatic Instrument Company. 368,561; June 27; Serial No. 398,884; published Apr. 18, 1939.

CLASS 37

Books, Blank. H. Cohen. 368,690; June 27; Serial No. 415,470; published Apr. 18, 1939.
Books, Record. H. W. Nichols Salesbook Co. 368,813; June 27.
Forms, Blank. Philadelphia Acceptance Corporation. 368,673; June 27; Serial No. 415,202; published Apr. 18, 1939.
Papers, Art. Bermingham & Prosser Co. 368,674; June 27; Serial No. 415,242; published Apr. 18, 1939.
Pencils and leads. M. A. Ferst, Ltd. 368,649; June 27; Serial No. 414,629; published Apr. 18, 1939.
Pens, Fountain. H. Sachnoff. 368,812; June 27.
Sealers, Package. E. K. Krakaur. 368,588; June 27; Serial No. 408,924; published Apr. 18, 1939.
Tape, Gummed paper. Gummed Products Company. 368,811; June 27.
Tissue, Facial. Northern Paper Mills. 368,699; June 27; Serial No. 415,565; published Apr. 18, 1939.

CLASS 38

Cartoon or comic strips. Dell Publishing Company. 368,657–8; June 27; Serial Nos. 414,865–6; published Apr. 11, 1939.
Magazine. National Oil Marketers Association. 368,577; June 27; Serial No. 403,608; published Apr. 18, 1939.
Magazine. Your Health Publications, Inc. 368,733; June 27; Serial No. 416,007; published Apr. 11, 1939.
Magazine, Trade. P. T. Birchard. 368,712; June 27; Serial No. 415,760; published Apr. 18, 1939.
Publication. Rap-I-Dol Distributing Corporation. 368,661; June 27; Serial No. 414,922; published Apr. 11, 1939.
Publication, Annual. Babcock Publications, Inc. 368,582; June 27; Serial No. 405,338; published Apr. 11, 1939.

CLASS 39

Apparel, Sports. Empire Imports. 368,806; June 27.
Boots and shoes. Continental Shoe Corporation. 368,685; June 27; Serial No. 415,382; published Apr. 18, 1939.
Boots, shoes, and slippers. The Woodstock Rubber Company Limited. 368,571; June 27; Serial No. 402,659; published Apr. 18, 1939.
Caps and hats. Lofty G. m. b. H. 368,616; June 27; Serial No. 412,820; published Apr. 18, 1939.
Chemises, princess slips, bloomers, etc. I. Schneierson & Sons, Inc. 368,716; June 27; Serial No. 415,797; published Apr. 18, 1939.
Coats, trousers, vests, etc. Polikoff Limited. 368,612; June 27; Serial No. 412,354; published Apr. 11, 1939.
Coats, Women's. Louis Shipman & Baker Co. 368,645; June 27; Serial No. 414,277; published Apr. 18, 1939.
Coats, Women's. F. Shulman. 368,809; June 27.
Corsets and foundation garments. International Corset Company. 368,679; June 27; Serial No. 415,293; published Apr. 18, 1939.
Corsets, corselets, girdles, etc. Vanity Corset Company. 368,665; June 27; Serial No. 414,974; published Apr. 18, 1939.
Costumes, Theatrical. A. Rosenburg. 368,669; June 27; Serial No. 415,188; published Apr. 18, 1939.
Diapers. S. & R. Infants Wear Co. 368,623; June 27; Serial No. 413,318; published Feb. 7, 1939.
Dresses. Feigenbaum & Adelson, Inc. 368,666; June 27; Serial No. 414,991; published Apr. 11, 1939.
Dresses, play suits, and bathing suits. S. Augstein & Co. 368,622; June 27; Serial No. 413,174; published Feb. 14, 1939.
Dresses, slacks, and suits, etc. Rice-Stix Dry Goods Company. 368,590; June 27; Serial No. 409,142; published Apr. 11, 1939.
Dresses, underwear, and bathing suits. S. Gut. 368,601; June 27; Serial No. 411,053; published Apr. 18, 1939.
Footwear. S. Jacobson. 368,631; June 27; Serial No. 413,676; published Apr. 18, 1939.
Garment, Brassière, girdle, and pantie combination. La Vel Company. 368,706; June 27; Serial No. 415,654; published Apr. 18, 1939.
Gloves, Leather. Buscarlet Glove Company Inc. 368,718; June 27; Serial No. 415,873; published Apr. 18, 1939.
Gloves, Leather. Speare Glove Company. 368,680; June 27; Serial No. 415,306; published Apr. 18, 1939.
Handkerchiefs. Southern Handkerchief Manufacturing Co. 368,799; June 27.
Hats, Ladies'. Millinery Merchandising Executives Association, Inc. 368,721; June 27; Serial No. 415,955; published Apr. 18, 1939.
Hats, Ladies', misses', and girls'. Eton Corporation. 368,678; June 27; Serial No. 415,287; published Apr. 18, 1939.
Hats, Men's. Dickerson & Company. 368,626; June 27; Serial No. 413,473; published Apr. 18, 1939.
Hosiery. Brown Durrell Co. 368,684; June 27; Serial No. 415,375; published Apr. 11, 1939.
Hosiery. Charles Chipman's Sons Co. 368,804; June 27.

Hosiery. Interwoven Stocking Company. 368,635–6; June 27; Serial Nos. 413,907–8; published Apr. 11, 1939.
Hosiery. Kenosha Full Fashioned Mills, Inc. 368,705; June 27; Serial No. 415,653; published Apr. 11, 1939.
Neckties. Bowen-Ingalls & Co. 368,558; June 27; Serial No. 395,607; published Apr. 18, 1939.
Neckties. H. C. Cohn & Co. 368,738; June 27; Serial No. 416,030; published Apr. 18, 1939.
Neckties. H. C. Cohn & Co. 368,739; June 27; Serial No. 416,032; published Apr. 18, 1939.
Neckties. H. C. Cohn & Co. 368,740–1; June 27; Serial Nos. 416,038–9; published Apr. 18, 1939.
Neckties and mufflers. E. Glick. 368,650; June 27; Serial No. 414,030; published Apr. 18, 1939.
Overalls, children's overalls, playsuits, etc., Ladies'. Muskegon Manufacturing Company. 368,659; June 27; Serial No. 414,881; published Apr. 18, 1939.
Pajamas. Eastern Isles Importing Co. 368,578; June 27; Serial No. 404,036; published May 17, 1938.
Pajamas. Manhattan Shirt Company. 368,605; June 27; Serial No. 411,541; published Apr. 11, 1939.
Shirts, pants, and jackets, Outer. Oberman & Company. 368,556; June 27; Serial No. 388,363; published Apr. 11, 1939.
Shoes and hosiery. G. R. Kinney Co. 368,568–9; June 27; Serial Nos. 402,226–7; published Apr. 18, 1939.
Shoes, Ladies'. I. Miller & Sons, Inc. 368,686; June 27; Serial No. 415,408; published Apr. 18, 1939.
Shoes, Ladies'. I. Miller & Sons, Inc. 368,687; June 27; Serial No. 415,410; published Apr. 18, 1939.
Shoes, Women's. Herpolsheimer Company. 368,642; June 27; Serial No. 414,188; published Apr. 18, 1939.
Suits, Men's. Alfred Decker & Cohn, Inc. 368,603; June 27; Serial No. 411,482; published Apr. 18, 1939.
Suits, Men's. Haspel Bros., Inc. 368,602; June 27; Serial No. 411,093; published Apr. 18, 1939.
Suits, Swimming. Jantzen Knitting Mills. 368,714; June 27; Serial No. 415,782; published Apr. 18, 1939.
Suits, shorts, pajamas, etc., Union. Monticello Shirt Company. 368,689; June 27; Serial No. 415,460; published Apr. 18, 1939.
Sweaters, knitted suits, hair nets, etc. Hattie Carnegie, Inc. 368,803; June 27.
Trousers and shorts. Cluett, Peabody & Co. 368,681; June 27; Serial No. 415,325; published Apr. 18, 1939.
Underwear; blouses; dresses. Lande & Miskend, Inc. 368,691; June 27; Serial No. 415,480; published Apr. 18, 1939.
Underwear, pajamas, slips, etc. Cooperative Handcrafts Incorporated of Puerto Rico. 368,708; June 27; Serial No. 415,705; published Apr. 18, 1939.
Uniforms, Men's. Wender & Goldstein, Inc. 368,624; June 27; Serial No. 413,325; published Apr. 18, 1939.

CLASS 42

Blankets, Woven textile. Esmond Mills. 368,562; June 27; Serial No. 399,753; published Nov. 8, 1938.
Cotton, rayon, and wool. Christian Fischbacher Co. 368,630; June 27; Serial No. 413,665; published Apr. 18, 1939.
Fabrics in the piece, Cotton fabric. Karo Knit Fabrics, Inc. 368,810; June 27.
Organdie. Bellman Brook Bleachery Co. 368,592; June 27; Serial No. 409,602; published Apr. 18, 1939.
Piece goods. Seneca Textile Corporation. 368,606; June 27; Serial No. 411,661; published Feb. 7, 1939.
Rugs and carpets. R. F. Bemporad. 368,625; June 27; Serial No. 413,468; published Apr. 18, 1939.
Sheets, sheeting, pillow-cases, etc. Utica Steam & Mohawk Valley Cotton Mills. 126,911; renewed Oct. 7, 1939.
Woolen and worsted fabrics in the piece. M. L. Finch. 368,814; June 27.

CLASS 43

Thread, Rubber. United Elastic Corporation. 368,732; June 27; Serial No. 416,002; published Apr. 18, 1939.
Yarn. L. Hoffman. 368,651; June 27; Serial No. 414,737; published Apr. 18, 1939.
Yarn. North American Rayon Corporation. 368,570; June 27; Serial No. 402,583; published Apr. 11, 1939.
Yarns. Quaker Worsted Mills Corporation. 368,734; June 27; Serial No. 416,015; published Apr. 18, 1939.

CLASS 45

Beverage, or a lemon concentrate, or syrup for making the same, Lemon. D. D. Stratos. 368,628; June 27; Serial No. 413,603; published Apr. 18, 1939.
Beverages. A. B. Cook. 368,698; June 27; Serial No. 415,542; published Apr. 18, 1939.
Drinks, carbonated beverages, and syrups for making same, Soft. W. T. Wagner's Sons Company. 368,781; June 27; Serial No. 416,491; published Apr. 18, 1939.

CLASS 46

Bouillon-cubes and vegetable and beef extracts. Pure Food Factory "Hansa". 127,667; renewed Nov. 18, 1939.
Bread. Cable Draper Baking Co. 127,344; renewed Nov. 11, 1939.
Candy. Euclid Candy Co. of Illinois, Inc. 368,641; June 27; Serial No. 414,174; published Apr. 18, 1939.
Candy. Fanny Farmer Candy Shops, Inc. 126,844; renewed Oct. 7, 1939.
Candy. J. Mackintosh & Sons, Limited. 368,748; June 27; Serial No. 416,070; published Apr. 18, 1939.
Candy, Chocolate coated. C. E. Voogt Candy Co. 368,694; June 27; Serial No. 415,530; published Apr. 18, 1939.
Canned fruits, vegetables, and tomato juice. F. W. Dustan & Son. 368,555; June 27; Serial No. 380,761; published Apr. 18, 1939.
Canned sardines, canned peaches, and canned tomatoes with purée from trimmings. Santa Cruz Canning Corporation. 127,678; renewed Nov. 18, 1939.
Canned tomato paste. G. W. Metlar. 368,764; June 27; Serial No. 416,262; published Apr. 18, 1939.
Canned tomato paste, fish, vegetables, etc. Riverbank Canning Company. 368,584; June 27; Serial No. 407,330; published Apr. 18, 1939.
Celery. Chase & Company. 368,713; June 27; Serial No. 415,766; published Apr. 18, 1939.
Feeds. Sunshine State Hatcheries Inc. 368,629; June 27; Serial No. 413,604; published Apr. 18, 1939.
Flour. W. J. Fitzpatrick Company. 368,632; June 27; Serial No. 413,705; published Apr. 18, 1939.
Flour, Wheat. La Grange Mills. 127,073; renewed Oct. 21, 1939.
Flour, Wheat. Shane Bros. & Wilson Co. 124,768; renewed Mar. 11, 1939.
Fruit, and fresh vegetables, Fresh citrus and deciduous. Moreno Brothers, Inc. 368,805; June 27.
Fruits, Fresh deciduous. Bear Creek Orchards. 368,755; June 27; Serial No. 416,175; published Apr. 18, 1939.
Fudge and cake icing mix. Tennex Company. 368,759; June 27; Serial No. 416,210; published Apr. 18, 1939.
Ham, Cooked. Tobin Packing Company Incorporated. 368,654; June 27; Serial No. 414,804; published Apr. 18, 1939.
Ingredients for making puddings. Chocolate Products Company. 368,701; June 27; Serial No. 415,582; published Apr. 18, 1939.
Potato chips. Frito Company. 368,656; June 27; Serial No. 414,852; published Apr. 18, 1939.
Shortening, Vegetable. John Morrell & Co. 127,641; renewed Nov. 18, 1939.
Tea. Joseph Tetley & Co. 17,082; re-renewed Oct. 1, 1939.
Tea, Alfalfa. C. Faith. 368,594; June 27; Serial No. 409,808; published Apr. 18, 1939.
Vegetables, Fresh. Bonita Packing Company. 368,688; June 27; Serial No. 415,441; published Apr. 18, 1939.

CLASS 47

Wines. W. H. Hommel. 368,560; June 27; Serial No. 398,620; published Apr. 18, 1939.

CLASS 48

Ale. J. Ruppert. 368,639; June 27; Serial No. 414,043; published Apr. 18, 1939.
Beer and ale. The Sunrise Distributing Company. 368,736; June 27; Serial No. 416,020; published Apr. 18, 1939.

CLASS 49

Whiskey. The Daviess County Distilling Company, Inc. 368,771; June 27; Serial No. 416,316; published Apr. 18, 1939.

LIST OF LABELS

Automatic Bingo New Exciting Game. For Automatic Game. Karson Mfg. Co. Inc. 53,185; June 27.
Baume Bengué. For Analgesic Balm. Bengué, Inc. 53,172; June 27.
Beech-Nut Assorted Cookies. For Assorted Cookies. Beech-Nut Packing Company. 53,171; June 27.
Black Jack. For an Apple Cider Beverage. H. C. Green. 53,180; June 27.
C.-P. Certified Pure Root Beer. For Root Beer. N. L. Lamm. 53,190; June 27.
Constant Velocity Frequency Record. For Constant Velocity Frequency Records. Universal Microphone Co. 53,205; June 27.
Cream Gold 'Creamery Butter Members W. Va. Retail Grocers Assn.' For Creamery Butter. Bowser Sales & Trading Corporation. 53,175; June 27.
Daint-Ease. For Suppositories. Wood & Champaine. 53,206; June 27.
Dandy. For Chewing Gum. Gumakers of America, Inc. 53,182; June 27.
Distinctive Footwear. For Footwear. A. C. Clayton Printing Company. 53,177; June 27.
Four Winds. For Frozen Fresh Green Peas. United Frosted Foods, Inc. 53,204; June 27.
Golden Rod. For Tablets. Osborn Paper Company. 16,330; renewed Apr. 1, 1940.

Gusler's Genuine Non-Crumbling Wallpaper Cleaner. For a Wall-Paper Cleaner. Gusler's Products Co. 53,183; June 27.
K T. For Kentucky Straight Bourbon Whiskey. K. Taylor Distilling Co. 53,203; June 27.
Kokanut Kreme. For a Frozen Dessert. Cocoanut Products Co. 53,178; June 27.
Kraft's Dandy. For Bread. South Side Baking Company. 53,200; June 27.
Kroger's Twinkle Ice Cream Mix Vanilla Flavor. For an Ice Cream Mix. Kroger Grocery & Baking Company. 53,186; June 27.
Kroger's Twinkle Delicious Chocolate Flavor Ice Cream Mix. For an Ice Cream Mix. Kroger Grocery & Baking Company. 53,187; June 27.
Kurlene for Eyelashes. For Eyelash Cream. Kurlash Company. 53,189; June 27.
Land O' Hills 'Creamery Butter Members W. Va. Retail Grocers Assn.' For Creamery Butter. Bowser Sales & Trading Corporation. 53,173; June 27.
Land O' Hills 'W Va B. M. A.' Pure Cream Butter. For Creamery Butter. Bowser Sales & Trading Corporation. 53,174; June 27.
Lazee Lacers. For Adjustable Shoe Laces. Gust Corporation. 53,184; June 27.
Melt. For a Depilatory. Melt Laboratories. 53,193; June 27.
Nectar. For Coffee. Brazilian & Arabian Coffee Co. 53,176; June 27.
Plantation Pride. For Minced Chicken. M. Rayburn. 53,197; June 27.
Popeye. For Spinach. C. R. Matthes. 53,192; June 27.
Porter Seal. For a Mixture for Sealing Cracked Blocks, Heads, Boilers and Leaky Radiators. E. D. Porter. 53,196; June 27.
Porter's Wonder Worker. For a Radiator Cleaner. E. D. Porter. 53,195; June 27.
Ready-to-Freeze. For an Ice Cream Mixture. Sterilized Products Corporation. 53,201; June 27.
Red-Ee. For Prepared Cake Flour. Red-Ee Foods, Inc. 53,198; June 27.
Relaxation a Safe Corn and Callus Remover. For a Pharmaceutical Preparation for the Removal of Corns and Calluses. Allen Chemical Co. Inc. 53,170; June 27.
Roach Nibs. For an Insecticide. R. L. Gilles. 53,179; June 27.
Rum and Maple. For a Pipe Mixture of the Finest Selected Tobaccos. Rum and Maple Tobacco Corporation. 53,199; June 27.
Save the Baby. For Liniment. Wm. W. Lee & Co. 53,191; June 27.
Tampa Prince. For Cigars. V. Guerrieri. 53,181; June 27.
Typ-Rol. For a Type and Roll Refinisher. Write Incorporated. 53,207; June 27.
Virginia Style Potato Chips. For Potato Chips. K. Kronsbein. 53,188; June 27.
Whims, Norris Exquisite Candies. For Candies. Norris Incorporated. 53,194; June 27.
Wind-O-Shine. For a Cleaner for Cleaning and Polishing all Glass Surfaces and Wind-Shields. M. L. Swimmer. 53,202; June 27.

LIST OF PRINTS

Dishes Wash Themselves with. For Dishwashing Compounds, Scrubbing Soaps, Oil Soaps, a Tile, Enamel, and Porcelain Cleaner, and Soap Dispensers. H. L. Hamburger. 17,463; June 27.
Dwin Insect Killer as Fragrant as Flowers in May—Dwinax the Fragrant Floor Wax. For an Insect Killer and a Floor Wax. Baldwin Laboratories, Inc. 17,462; June 27.
Early American—Old Spice Toiletries for Men. For Toiletries for Men. Shulton, Inc. 17,467; June 27.
Furniture Cream Saves the Finish. For Lamb's Wool Applicators, Coal Tar Disinfectants, Fly Sprays, and Metal Polishes. H. L. Hamburger. 17,464; June 27.
Junior Tastykake. For Cake. Tasty Baking Company. 17,468; June 27.
7 People Out of 10 Have or Will Have Foot Trouble, National Foot Health Week, Make Every Week Foot Health Week. For Shoes. Musebeck Shoe Company. 17,466; June 27.
Why Suffer with Your Feet When Health Spot Shoes Will Give You Foot Health and Comfort? People in All Walks of Life Need Health Spot Shoes, Get the Inside Story of Health Spot Shoes. For Shoes. Musebeck Shoe Company. 17,465; June 7.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Axe, Roy T., assignor to the O. M. Edwards Company Inc., Syracuse, N. Y. Window construction. Re. 21,126; June 27.
Bendix Aviation Corporation. (See Elkin, Manuel H., assignor.)
Boyle, John R., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill. Air velocity meter. Re. 21,127; June 27.
Buena Vista Iron Company. (See Fox, B., and Ericson, assignors.)
Delamere Company. (See Huppert, William, assignor.)
Edwards, O. M., Company Inc., The. (See Axe, Roy T., assignor.)
Elkin, Manuel H., Elmira Heights, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Starter control for internal combustion engines. Re. 21,128; June 27.
Ericson, Charles E. (See Fox, B., and Ericson.)
Fox, Benjamin, Wollaston, and C. E. Ericson, South Braintree, Mass., assignors, by mesne assignments, to Buena Vista Iron Company. Apparatus for evaporating and distilling. Re. 21,129; June 27.
Gellman, Israel C., Rock Island, Ill., assignor to Northwestern Steel and Wire Company. Wire fabric making machine. Re. 21,130; June 27.
Huppert, William, New York, N. Y., assignor to Delamere Company, Inc. Comb. Re. 21,131; June 27.
Illinois Testing Laboratories, Inc. (See Boyle, John R., assignor.)
Innes Company. (See Innes, George, assignor.)
Innes, George, Davenport, assignor, by mesne assignments, to Innes Company, Bettendorf, Iowa. Apparatus for baling. Re 21,132; June 27.
International Business Machines Corporation. (See Lake, Clair D., assignor.)
Lake, Clair D., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Perforating machine. Re. 21,133; June 27.
Northwestern Steel and Wire Company. (See Gellman, Israel C., assignor.)
Weisz, George R., Chicago, Ill. Inkwell bottle. Re. 21,134; June 27.

LIST OF PLANT PATENTEES

Proietti, Joseph, San Leandro, Calif. Rose. 333; June 27.

LIST OF DESIGN PATENTEES

Abbott, Lillian, New York, N. Y. Dress. 115,464; June 27.
Adams, Donald W., and R. L. Schuhmann, Louisville, Ky. Coffee roaster or the like. 115,378; June 27.
Adams, Donald W., and R. L. Schuhmann, Louisville, Ky. Coffee roaster or the like. 115,379; June 27.
Andersen, George L., assignor to Andersen-Smith Milling Co., San Francisco, Calif. Edible biscuit. 115,380; June 27.
Andersen-Smith Milling Co. (See Andersen, George L., assignor.)
Associated Attleboro Manufacturers, Inc. (See Beaupre, Eli J., assignor.)
Auerbach, Hyman, Brookline, assignor to Continental Shoe Corporation, Boston, Mass. Shoe or similar article. 115,381; June 27.
Bahr, Gustave F., assignor to Casco Products Corporation, Bridgeport, Conn. Electric creasing iron. 115,382; June 27.
Barbe, Edgar H., Plainfield, N. J. Rolling ash tray. 115,383; June 27.
Baum, W. A., Co. (See Baum, William A., assignor.)
Baum, William A., Forest Hills, assignor to W. A. Baum Co., Inc., New York, N. Y. Pedestal sphygmomanometer. 115,384; June 27.
Beaupre, Eli J., North Attleboro, assignor to Associated Attleboro Manufacturers, Inc., Attleboro, Mass. Bracelet. 115,439; June 27.
Beckendorf, Max, New York, N. Y. Textile fabric. 115,440; June 27.
Bixer, Edmond P., New York, N. Y. Textile fabric or similar article. 115,465; June 27.
Blackhawk Mfg Co. (See Mandl, Siegmund, assignor.)
Bonyhady, Emil, New York, N. Y. Sandal. 115,385; June 27.
Brenkert, Karl, Detroit, Mich. Combination motion picture projector and pedestal therefor. 115,386; June 27.
Burgess, George F., Cleveland, Ohio. Combination clearance and side marker lamp for vehicles. 115,387; June 27.
Burgund, Albert C., Tuckahoe, N. Y., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Bottle. 115,388; June 27.
Burke, William R., Berkeley, assignor to California Retail Jewelers Association, Inc., San Francisco, Calif. Souvenir key. 115,389; June 27.
California Retail Jewelers Association, Inc. (See Burke, William R., assignor.)
Carr-Lowrey Glass Co. (See Burgund, Albert C., assignor.)
Carr-Lowry Glass Co. (See Lloyd, Philip G., assignor.)
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Chamberlain, Inc. (See Francis, John G., assignor.)
Cherry-Burrell Corporation. (See Dalzell, Charles B., assignor.)
Cherry-Burrell Corporation. (See Lippold, Richard A., assignor.)
Cohen, Arthur, New York, N. Y. Dress. 115,466; June 27.
Cohen, Arthur, New York, N. Y. Dress. 115,467; June 27.
Cohen, Arthur, New York, N. Y. Dress ensemble. 115,468; June 27.
Colucci, Frank F., Philadelphia, Pa. Ash tray. 115,390; June 27.
Continental Shoe Corporation. (See Auerbach, Hyman, assignor.)
Cullen, Harry, W., et al. (See Schmidt, Richard E., assignor.)
Dalzell, Charles B., Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del. Plate for heat exchanger. 115,441; June 27.
Du Bow, Nathan, New York, N. Y. Hat. 115,486; June 27.
Earle, Guyon L. C., Forest Hills, N. Y. Combined stove, refrigerator, sink and cabinet. 115,391; June 27.
Earle, Guyon L. C., Forest Hills, N. Y. Combined stove, sink and cabinet. 115,392; June 27.
Earle, Guyon L. C., Forest Hills, N. Y. Combined refrigerator, sink and cabinet. 115,393; June 27.
Eggers, John M., Sioux City, Iowa. Smoking stand. 115,394; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,469; June 27
Fracchia, Pauline, New York, N. Y. Dress. 115,470; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,471; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,472; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,473; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,474; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,475; June 27.
Fracchia, Pauline, New York, N. Y. Dress. 115,476; June 27.
Francis, John G., assignor to Chamberlain, Inc., Chicago, Ill. Glass frying pan. 115,395; June 27.
Gepner, Abraham, Birmingham, Ala. Sweater. 115,477; June 27.
Gottreich, Joseph, New York, N. Y. Embroidered net fabric or similar article. 115,442; June 27.
Gray, Robert M., Pelham Manor, N. Y. Display sign. 115,396; June 27.
Haberstump, Alfred H. (See Vodoz, F. W., and Haberstump.)
Harris, Marion, New York, N. Y. Textile fabric. 115,443; June 27.
Harrison-Craig Mfg. Co. (See Harrison, William H., assignor.)
Harrison, William H., assignor to Harrison-Craig Mfg. Co., Los Angeles, Calif. Film viewing device. 115,397; June 27.
Heath, Irving J., New York, N. Y. Oyster dish or similar article. 115,398; June 27.

Heath, Irving J., New York, N. Y. Salad plate. 115,399; June 27.
Heisey, A. H., & Company. (See Heisey, Edgar W., assignor.)
Heisey, Edgar W., assignor to A. H. Heisey & Company, Newark, Ohio. Combined glass candlestick and vase holder or article of similar nature. 115,400; June 27.
Helmco, Inc. (See Lacy, Herman E., assignor.)
Hirsch, Jules, New York, N. Y. Brooch or similar article. 115,401; June 27.
Hirsch, Jules, New York, N. Y. Clip pin or similar article. 115,402; June 27.
Hirsch, Jules, New York, N. Y. Brooch or similar article. 115,403; June 27.
Hirsch, Jules, New York, N. Y. Brooch or similar article. 115,444; June 27.
Hirsch, Jules, New York, N. Y. Brooch or similar article. 115,445; June 27.
Hobson, Ota O., Charlton, Iowa. Display stand. 115,404; June 27.
Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)
International Cigar Machinery Company. (See Wheeler, H. H., and Rosengren, assignors.)
Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Combined bumper and a guard or similar article. 115,405; June 27.
Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Combined bumper and a guard or similar article. 115,406; June 27.
Jaidus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Combined bumper and a guard or similar article. 115,407; June 27.
Johnson, Arnold E., New York, N. Y. Nail file. 115,408; June 27.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,455; June 27.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,456; June 27.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,457; June 27.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,458; June 27.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,459; June 27.
Kliche, Curt, New York, N. Y. Shoe. 115,409; June 27.
Kotz, Arthur F. (See Kotz, Leonard C., and A. F.)
Kotz, Leonard C., and A. F. Kotz, Syracuse, N. Y. Plaque. 115,410; June 27.
Lacy, Herman E., Chicago, Ill., assignor to Helmco, Inc. Electrical self-heating cup. 115,411; June 27.
Lacy, Herman E., Chicago, Ill., assignor to Helmco, Inc. Electrical self-heating cup. 115,412; June 27.
Lax, Irving M. (See Munson, R., Lax, and Silverstein.)
Leishman, Thomas L., New York, N. Y. Mat or similar article. 115,478; June 27.
Leishman, Thomas L., New York, N. Y. Mat or similar article. 115,479; June 27.
Leishman, Thomas L., New York, N. Y. Mat or similar article. 115,480; June 27.
Leishman, Thomas L., New York, N. Y. Mat or similar article. 115,481; June 27.
Lerman, Kate, Chicago, Ill. Radio or similar article. 115,413; June 27.
Lima Cord Sole and Heel Company, The. (See Wirries, Walter H., assignor.)
Lindstaedt, Frank F., San Francisco, Calif. Combined coupling and spray nozzle. 115,414; June 27.
Lippold, Richard A., Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Chicago, Ill. Bottle washer. 115,460; June 27.
Lloyd, Philip G., Jackson Heights, N. Y., assignor to Carr-Lowry Glass Co., Baltimore, Md. Bottle. 115,415; June 27.
Lynch, Frances D., North Plainfield, N. J. Decorative wall ornament or the like. 115,446; June 27.
Mandl, Siegmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Torque indicating tool. 115,416; June 27.
Matarrese, Frank, Ridgefield Park, N. J., assignor to S. Naitove & Co., Inc., New York, N. Y. Textile fabric or similar article. 115,447; June 27.
McCann, Clyde D., Des Moines, Iowa. Desk lamp. 115,417; June 27.
McLaughlin, Charles, Garden City, N. Y., assignor to Tilton & Cook Co., Leominster, Mass. Bag frame. 115,461; June 27.
Mauller, Dixon M., Port Washington, N. Y., assignor, by mesne assignments, to Standard Oil Development Company, Linden, N. J. Display sign. 115,418; June 27.
MixOmint Corporation. (See Street, Augustus, assignor.)
Motor Wheel Corporation. (See Wilmet, Georges, assignor.)
Munson, Raymond, I. M. Lax, New York, and M. Silverstein, assignors to H. Rothman, Brooklyn, N. Y. Receptacle for paper tissues and the like. 115,419; June 27.
Murray Corporation of America, The. (See Vodoz, F. W., and Haberstump, assignors.)
Naitove, S., & Co. (See Matarrese, Frank, assignor.)
Owens-Illinois Glass Company. (See Sutter, John H., assignor.)
Pancoast, William G., Winnetka, Ill. Pouring top for containers or similar articles. 115,420; June 27.
Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electric fan or similar article. 115,448; June 27.
Philip, Morris, New York, N. Y. Button. 115,421; June 27.
Philippe, Alfred, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 115,422; June 27.
Prahl, Frederick A., Jr., Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Casing for a stitching machine. 115,423; June 27.
Prall, Bert R., Winnetka, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Tire. 115,424; June 27.
Rogers, Jackson D., Bay Village, Ohio. Chair. 115,425; June 27.
Rittenhouse, A. E., Co., The. (See Rittenhouse, Lloyd, assignor.)
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Signal device. 115,449; June 27.
Robinson, Hanson, Wayne, Pa. Badge or similar article. 115,450; June 27.
Roos, Leopold, New York, N. Y. Combined cracker and pick. 115,426; June 27.
Rosengren, Herbert. (See Wheeler, H. H., and Rosengren.)
Rothman, Harry. (See Munson, R., Lax, and Silverstein, assignors.)
Royak, Louis, New York, N. Y. Protective transparent hat covering. 115,482; June 27.
Schepps, Nellie M., Darien, Conn. Bird cage. 115,427; June 27.
Schmidt, Richard E., Philadelphia, Pa., assignor of forty percent to H. W. Cullen, Catonsville, Md., and thirty percent to W. E. Smith, Westchester, N. Y. Carburetor. 115,428; June 27.
Schuhmann, Richard L. (See Adams, D. W., and Schuhmann.)
Shapiro, Benjamin, New York, N. Y. Dress. 115,483; June 27.
Silverstein, Milton. (See Munson, R., Lax, and Silverstein.)
Singer Manufacturing Company, The. (See Park, Malcolm S., assignor.)
Smith, Robert L., Long Branch, N. J. Windbreaker jacket. 115,484; June 27.
Smith, Walter E., et al. (See Schmidt, Richard E., assignor.)
Standard Oil Development Company. (See Meuller, Dixon M., assignor.)
Sterngold, Jacob M., New York, N. Y. Dress. 115,485; June 27.
Stoll, Charles, New York, N. Y. Sofa or similar article. 115,429; June 27.
Street, Augustus, assignor to MixOmint Corporation, Vicksburg, Miss. Bottle. 115,430; June 27.
Surles, Thomas C., Beverly, Mass. Emblem lamp. 115,431; June 27.
Sutera, Roland, Brooklyn, N. Y. Combined letter opener and watch. 115,451; June 27.
Sutter, John H., New York, N. Y., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Hollow glass building block. 115,432; June 27.
Taddeo, Arthur A. (See Taddeo, Luigi, assignor.)
Taddeo, Luigi, assignor to A. A. Taddeo, Cleveland, Ohio. Soap holder. 115,433; June 27.
Thom, Wah C., Honolulu, Hawaii. Box or similar article. 115,462; June 27.
Tilton & Cook Co. (See McLaughlin, Charles, assignor.)
Trifari, Krussman & Fishel, Inc. (See Philippe, Alfred, assignor.)
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 115,452; June 27.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 115,453; June 27.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 115,454; June 27.
United Shoe Machinery Corporation. (See Prahl, Frederick A., Jr., assignor.)
Vodoz, Frederick W., Wilmette, Ill., and A. H. Haberstump, Detroit, Mich., assignors to The Murray Corporation of America, Detroit, Mich. Stoker. 115,434; June 27.
Wheeler, Henry H., Brooklyn, N. Y., and H. Rosengren, Woodcliffe Lake, N. J., assignors to International Cigar Machinery Company. Cigar machine or similar article. 115,435; June 27.
Williams, Othnell G., Winsted, Conn. Clock case. 115,436; June 27.
Willson Products, Inc. (See Willson, Thomas A., assignor.)
Willson, Thomas A., Wyomissing, assignor to Willson Products, Inc., Reading, Pa. Goggles. 115,437; June 27.
Wilmet, Georges, Roslyn, N. Y., assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for circulating heater. 115,463; June 27.
Wirries, Walter H., assignor to The Lima Cord Sole and Heel Company, Lima, Ohio. Shoe sole. 115,438; June 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adams, Nicholas M., Chicago, Ill., assignor to Wilson & Company. Treating gut. 2,164,101; June 27.
Adkisson, Martha, St. Louis, Mo. Collapsible container. 2,163,656; June 27.
Aero Supply Mfg. Co., Inc. (See Downey, George T., assignor.)
Agfa Ansco Corporation. (See Current, I. B., and Henrikson, assignors.)
Agfa Ansco Corporation. (See Eggert, J., and Wendt, assignors.)
Agfa Ansco Corporation. (See Wilmanns, G., Schneider, and Frohlich, assignors.)
Ainslee, Donald F. (See Hilborn, Walter S., assignor.)
Aktiebolaget Termisk Isolation. (See Munters, Carl G., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Noack, W. G., and Seippel, assignors.)
Aktiengesellschaft vorm. Seidel & Naumann. (See Wohlfarth, Reinhard M., assignor.)
Aktieselskapet Krystal. (See Jeremiassen, Finn, assignor.)
Albrecht, Christian A., Berlin, and H. Brandenburg, Berlin-Tempelhof, Germany, assignors to Mergenthaler Linotype Company, Brooklyn, N. Y. Typographical slug casting machine. 2,163,821; June 27.
Albrecht, Christian A., Berlin, and H. Brandenburg, Berlin-Tempelhof, Germany, assignors to Mengenthaler Linotype Company, Brooklyn, N. Y. Typographical slug casting machines. 2,163,822; June 27.
Alden, Milton, Brockton, Mass. Electrical connector. 2,163,771; June 27.
Alkan, Robert, Paris, France. Controlling apparatus. 2,163,724; June 27.
Allen, Edward L., Tampa, Fla. Animal trap. 2,163,577; June 27.
Allen, Eugene. (See Lalor, F. S., and Allen.)
Allen, Joseph W. (See Lansing, R. P., and Allen.)
Allerding, Alfred. (See Dillenbach, W., and Allerding.)
Allgemeine Elektricitats Gesellschaft. (See Henneberg, W., and Recknagel, assignors.)
American Can Company. (See Murch, John H., assignor.)
American Car and Foundry Motors Company. (See Dayes, Frederick E., assignor.)
American Chemical Paint Company. (See Romig, Gerald C., assignor.)
American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
American Instrument Company. (See Morris, Nathan, assignor.)
American Television Laboratories, Inc. (See de Forest, Lee, assignor.)
American Thread Company, The. (See Baker, D. G., and Gardner, assignors.)
Anderson, Eric J., Brooklyn, assignor to News Projection Corporation, New York, N. Y. Stock quotation projecting machine. 2,163,575; June 27.
Anderson, Gordon R., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Control system for dynamo-electric machines. 2,163,972; June 27.
Anderson, Maud L., Aurora, Ill. Hinge. 2,163,576; June 27.
Anderson Products, Incorporated. (See Lasher, L. L., Chesley and Parks, assignors.)
Andrews, John S., Los Angeles, Calif. Wall furnace. 2,163,928; June 27.
Ankarstran, William B., Astoria, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine. 2,163,823; June 27.
Ansul Chemical Company. (See Walker, W. O., and Rinelli, assignors.)
Archer, Merton T. (See Durrell, E. L., and Archer.)
Armentrout, Arthur L., and E. B. Hall, Los Angeles, Calif., assignor to Security Engineering Co. Inc. Method and apparatus for producing fluid from wells. 2,164,266; June 27.
Armour and Company. (See Ralston, A. W., and Selby, assignors.)
Armstrong-Bray & Co. (See Bray, Albright, assignor.)
Aske, Irving E., Muskegon, assignor to Campbell Wyant & Cannon Foundry Company, Muskegon Heights, Mich. Cylinder head structure. 2,163,905; June 27.
Associated Attleboro Manufacturers Inc. (See Beaupre, Eli J., assignor.)
"Astra" Compañia Argentina de Petróleo Sociedad Anónima. (See Knudsen, Alfred, assignor.)
Atlantic Rayon Corporation. (See Schlumpf, Jakob, assignor.)
Atlantic Refining Company, The. (See Boyd, James H., Jr., assignor.)
Atlantic Service Company. (See Williams, Clarence R., assignor.)
Aurora Steel Products Company. (See Fohn, Adolf E., assignor.)
Austin, Fuller A. (See Bettenhausen, Arnold H., assignor.)
Axtell, Claude E., Weed, Calif. Window sash holder and lock. 2,164,102; June 27.
B. B. Chemical Co. (See Macdonald, Alexander D., assignor.)
Bacon, Robert, Brooklyn, N. Y. Hair curl clasp. 2,163,824; June 27.
Badger, E. B., & Sons Co. (See Peters, William A., Jr., assignor.)
Bailey Meter Company. (See Dickey, Paul S., assignor.)
Baker, Dickerson G., Holyoke, and D. R. Gardner, Springfield, Mass., assignors to The American Thread Company, New York, N. Y. Winding machine. 2,163,578; June 27.
Baker Manufacturing Co. (See Buffington, Harry C., assignor.)
Baldwin-Southwark Corporation. (See Gibbons, Chester H., assignor.)
Baldwin-Southwark Corporation. (See Lichty, Arthur J., assignor.)
Ball Brothers Company. (See Wadsworth, Frank L. O., assignor.)
Ballou, B. A., & Co. (See Morehouse, Eugene, assignor.)
Barbarou, Marius J.-B., Neuilly-sur-Seine, France. Control of the sleeve valves of engines. 2,163,929; June 27.
Barnes Drill Co. (See Johnson, Albert M., assignor.)
Barnes Drill Co. (See Johnson, A. M., and Fairbairn, assignors.)
Barr and Stroud Limited. (See French, James W., assignor.)
Baum, Seymour J., Flushing, N. Y. Pump. 2,164,103; June 27.
Baumann, Edward W., Deming, N. Mex. Hinge. 2,164,047; June 27.
Baumgarten, Adolf. (See Murrin, Gahlbeth H., assignor.)
Bayer, Henry J., Mount Vernon, Ill. Oven. 2,164,226; June 27.
Bayliss, Francis J. (See Richtmyer, Arthur R., assignor.)
Beaupre, Eli J., North Attleboro, assignor to Associated Attleboro Manufacturing Inc., Attleboro, Mass. Bracelet. 2,164,197; June 27.
Beckman, Ernest E., assignor of one-half to W. D. Krehbiel, Lind, Wash. Welding machine. 2,163,657; June 27.
Bedford, Alda V., Collingsford, N. J., assignor to Radio Corporation of America. Television system. 2,164,297; June 27.
Bedford, Alda V., et al. (See Rust, Mack D., assignor.)
Beegle, Clifford H., et al. (See McCandless, Lyon, assignor.)
Beiderman, Edward G., assignor to General Motors Corporation, Detroit, Mich. Welding machine. 2,163,930; June 27.
Belden Manufacturing Company. (See Turner, Russell J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Corwin, T. L. and Hysko, assignors.)
Bell Telephone Laboratories, Incorporated. (See D'heedene, Albert R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Halligan, Clair W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hickman, Clarence N., assignor.)
Bell Telephone Laboratories, Incorporated. (See Llewellyn, Frederick B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Rogers, Karl F., assignor.)
Bemis and Call Company. (See Pond, Kenneth H., assignor.)
Benca, Ferdinand. (See Benca, Otto K. and F.)
Benca, Otto K. and F., Chicago, Ill. Fish trap. 2,163,973; June 27.
Bendix Aviation Corporation. (See Chilton, Roland, assignor.)
Bendix Aviation Corporation. (See Kearney, Daniel P., assignor.)
Bendix Aviation Corporation. (See Kliesrath, Victor W., assignor.)
Bendix Aviation Corporation. (See Sanford, Roy S., assignor.)
Bendix Brake Company. (See House, Bryan E., assignor.)
Bendix Products Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Products Corporation. (See Houston, G. F., and Sanford, assignors.)
Bendix Products Corporation. (See La Brie, Ludger E., assignor.)
Bendix Products Corporation. (See Price, Earl R., assignor.)
Bendix Products Corporation. (See Sanford, R. S., and Kliesrath, assignors.)
Bendix Products Corporation. (See Schairer, George S., assignor.)
Bendix Products Corporation. (See Taylor, Cecil H., assignor.)
Bendix Products Corporation. (See Whittington, Ralph S., assignor.)
Bendix Products Corporation. (Se Winkler, Albert H., assignor.)
Benedek, Elek K., Bucyrus, Ohio. Piston and reactance combinations for radial piston pumps and motors. 2,163,570; June 27.
Benedek, Elek K., Bucyrus, Ohio. Hydraulic pump or motor. 2,164,171; June 27.
Benner, Roland G. (See Henke, C. O., and Benner.)
Bereit, Herbert C., Cleveland, assignor to Una Welding, Inc., Cuyahoga County, Ohio. Flux carrying tape and associating same with a welding wire. 2,164,104; June 27.
Berek, Max, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Photographic objective. 2,164,028; June 27.
Bergiund, Emil, et al. (See Nilson, Harold, assignor.)
Bergmann, Theodor E., Schoeneberg, near Berlin, Germany. Metallic cartridge belt. 2,163,725; June 27.
Berndt, Walter, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna. 2,163,743; June 27.
Bertnolli, Edward C., and K. D. Cornell, assignors to Great Lakes Pipe Line Company, Kansas City, Mo. Voice operated repeater. 2,164,185; June 27.
Bertrand, Pierre, Paris, France, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Apparatus for the drawing of sheet glass. 2,164,048; June 27.
Bettenhausen, Arnold H., Princeton, assignor of one-half to F. A. Austin, Lincoln, Nebr. Tray, drawer, or the like. 2,163,931; June 27.
Bettis, William I., Los Angeles, assignor to E. B. Kleaver, Burbank, Calif. Casing protector. 2,163,932; June 27.
Beveridge-Marvelium Company, The. (See Shearer, Walter V., assignor.)
Beyar, Charles E., Brooklyn, N. Y. Electrical flatiron. 2,164,287; June 27.
Bianchi, Henry E., Rutherford, N. J., assignor to G. Cella, Inc. Manufacture of confections. 2,163,579; June 27.
Bianchi, Henry E., Rutherford, N. J., assignor to G. Cella, Inc. Confection making apparatus. 2,163,580; June 27.
Biederman, Edward G., assignor to General Motors Corporation, Detroit, Mich. Apparatus for welding. 2,163,863; June 27.
Bird, Edward S., assignor to Reed-Prentice Corporation, Worcester, Mass. Casting machine for stereotype plates. 2,163,658; June 27.
Bischof, Paul, New York, N. Y. Vacuum cabinet for moths. 2,164,131; June 27.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Variable cam structure. 2,163,864; June 27.
Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Dish draining rack. 2,163,865; June 27.
Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Display rack. 2,163,866; June 27.
Black, William A., East Cleveland, Ohio, assignor to Steel & Tubes, Inc. Method of and apparatus for making multipart tubing. 2,164,267; June 27.
Blett, Donald O., Chicago, Ill. Dispensing container. 2,163,974; June 27.
Bliley Electric Company. (See Wolfskill, John M., assignor.)
Blunt, Desco, Venango, Nebr. Agriculture machine. 2,163,726; June 27.
Boer, Albert G., Eindhoven, J. van Niekerk, Leiden, and E. H. Reerink and A. van Wijk, assignors to N. V. Philips' Gloeilmalpenfabrieken, Eindhoven, Netherlands. Vitamin. 2,163,659; June 27.
Bond, Alexander R., Plainfield, N. J., assignor to Keystone Controls, Inc., New York, N. Y. Liquid dispensing apparatus. 2,163,772; June 27.
Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Radiator core construction. 2,164,005; June 27.
Borden Company, The, et al. (See Dorcas, M. J., Suppiee, and Remesch, assignors.)
Borden, Edmund G., Little Neck, N. Y., assignor to Power Patents Company, Hillside, N. J. Conversion of Hydrocarbons. 2,163,867; June 27.
Borg-Warner Corporation. (See Zeidler, Reinhold C., assignor.)
Borland, Deloss, Hot Springs, Ark. Door bell and alarm. 2,164,029; June 27.
Bowlby, Russell, et al. (See Ryan, John C., assignor.)
Bowmann, Frederic C., assignor to A. R. Maas Chemical Co., Los Angeles, Calif. Refining phosphatovanadic acids. 2,163,773; June 27.
Boyd, James H., Jr., assignor to The Atlantic Refining Company, Philadelphia, Pa. Purification of crystallizable derivatives of coal tar. 2,163,581; June 27.
Bragg-Kliesrath Corporation. (See Drabin, John J., assignor.)
Brandenburg, Hermann. (See Albrecht, C. A., and Brandenburg.)
Bray, Albright, River Forest, assignor to Armstrong-Bray & Co., Chicago, Ill. Belt hook holder. 2,164,049; June 27.
Brewster, Henry, New York, N. Y. Automobile construction. 2,164,150; June 27.
Briggs Manufacturing Company. (See Tjaarda, John, assignor.)
Brill, J. G., Company, The. (See Kateley, Francis W., assignor.)
Britten, Edwin F., Jr., Short Hills, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing machine. 2,164,227; June 27.
Brock, Albert L., Buffalo, Wyo. Auxiliary accelerator pedal. 2,163,571; June 27.
Brooks, E. J., Company. (See Brooks, Winfred M., assignor.)
Brooks, Winfred M., West Orange, assignor to E. J. Brooks Company, Newark, N. J. Bag seal. 2,163,660; June 27.
Bros, Chester W., assignor to Wm. Bros Boiler & Manufacturing Company, Minneapolis, Minn. Stoker. 2,163,825; June 27.
Bros; Wm., Boiler & Manufacturing Company. (See Bros, Chester W., assignor.)
Brown, Charles B., Jackson Heights, N. Y. Record chart for shoe measurements. 2,163,661; June 27.
Brown, Cicero C., Houston, Tex. Strainer and packer setting device. 2,163,933; June 27.
Brown Company. (See Moore, Hugh K., assignor.)
Brown, Glendon C. (See Seeger, E. W., and Brown.)
Brown, John C., New York, N. Y. Razor blade holder. 2,164,050; June 27.
Brown, Robert J., and A. R. Nees, Denver, and C. T. Carney, Greeley, assignors to The Great Western Sugar Company, Denver, Colo. Manufacture of sugar. 2,164,186; June 27.
Brown and Sharpe Manufacturing Company. (See Englund, John E., assignor.)
Brown, William P., New York, N. Y. Hair comb. 2,164,105; June 27.
Browne, Stewart R., Mfg. Co. (See Garlock, Lewis F., assignor.)
Brunnbauer, Albert, Junior. (See Passler, Hermann, assignor.)
Brunson, Amber N., Kansas City, Mo. Surveying instrument. 2,164,051; June 27.
Buchanan, Leslie B. M., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerator control. 2,163,744; June 27.
Bucyrus-Monighan Company. (See Jacobsen, Arthur J., assignor.)
Buffington, Harry C., assignor to Baker Manufacturing Co., Springfield, Ill. Implement mounting for tractors. 2,163,662; June 27.
Bugatti, Ettore, Molsheim, France. Coupling device intended especially for railroad vehicles. 2,163,826; June 27.
Bullard, Edwin F. (See Evans, T. W., and Bullard.)
Bullwinkel, John T., Brooklyn, N. Y. Disintegration of matrix, mud balls, etc. 2,164,052; June 27.
Burndy Engineering Co. (See Dibner, B., and Rogoff, assignors.)
Burndy Engineering Co. (See Rogoff, Julian, assignor.)
Burns, John R., Powell, Ohio. Phosphorus charging method and apparatus. 2,164,228; June 27.
Burt, Daniel W., Providence, R. I. Animal trap. 2,163,827; June 27.
Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Short wave transmitter. 2,163,582; June 27.
Buzzard, Robert W., Kensington, Md. Treatment of magnesium and its alloys. 2,163,583; June 27.
Caldwell, Frank W., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Controllable-pitch propeller. 2,163,663; June 27.
Campbell Wyant & Cannon Foundry Company. (See Aske, Irving E., assignor.)
Canal National Bank of Portland, The. (See Chaplin, Merle P., assignor.)
Cangemi, Salvatore, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting shoes. 2,163,664; June 27.
Carney, Claude T. (See Brown, R. J., Nees, and Carney.)
Carothers, Wallace H., and G. D. Graves, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polyamides. 2,163,584; June 27.
Carr, Richard H., W. M. Saxon, G. G. Hebard, and Y. Neal, assignors to The Pure Oil Company, Chicago, Ill. Well drilling indicator. 2,163,665; June 27.
Carter, Warren G., and E. P. Chandler, Ocean Park, Calif. Fishing jig. 2,163,666; June 27.
Cartun, Paul O., Cleveland Heights, and W. D. Pew, East Cleveland, Ohio, assignors to General Electric Company. Electric incandescent lamp. 2,164,288; June 27.
Catterlin, Oscar C. (See Kautsky, Joseph H., assignor.)
Celanese Corporation of America. (See Gentle, Alexander H., assignor.)

Celanese Corporation of America. (See Whitehead, William, assignor.)
Celia, G., Inc. (See Bianchi, Henry E., assignor.)
Central Commercial Company. (See Gundlach, Henry R., assignor.)
Central Commercial Company. (See Gundlach, H. R., and Teetor, assignors.)
Chalmers, John W., Deptford, assignor to Molins Machine Company Limited, London, England. Box. 2,163,828; June 27.
Chandler, Eugene P. (See Carter, W. G., and Chandler.)
Chaplin, Merle P., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Me. Pulp molding machine. 2,163,585; June 27.
Chapman, Edward C. (See Moses, A. J., and Chapman.)
Charis Corporation. (See Leonard, Joseph, assignor.)
Charmoy, Harry. (See Wertzheiser, J., and Charmony.)
Checkmaster Plan, Inc. (See Efron, Alexander, assignor.)
Cheney, Charles W., Soho, Birmingham, England. Fastening for attaché and suit cases and the like. 2,163,774; June 27.
Chereton, Hannah C. (See Schimkus, Kurt E., assignor.)
Chereton, Hannah C. (See Schimkus, K. E., and Dunke, assignors.)
Chesley, Walter R. (See Lasher, L. L., Chesley and Parks.)
Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,163,829; June 27.
Christiansen, Walter G., Glen Ridge, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Anion mercuri 1,3-dihydroxy 4-alkyl 6-halo benzene. 2,163,745; June 27.
Christie, Theodore, Rochester, N. Y., assignor to Lassco Products, Inc. Cutting machine. 2,163,868; June 27.
Churchill, Harold E. (See Matthews, G., and Churchill.)
Cincinnati Grinders Incorporated. (See Haas, Frederick S., assignor.)
Clark, Kendall, South Bend, Ind. Power lighting system. 2,164,187; June 27.
Clements, Frank O., R. H. Terry, and D. J. Henry, assignors to General Motors Corporation, Detroit, Mich. Making powdered iron. 2,164,198; June 27.
Clifford, George M., assignor to Textile Manufacturing Company, Westfield Mass. Casket handle. 2,163,830; June 27.
Cluett, Peabody & Co. (See Kennedy, R. O., and Ziegler, assignors.)
Cluett, Peabody & Co. Inc. (See Ziegler, R. A., and Ferguson, assignors.)
Coe, Mayne R., Washington, D. C. Curing plant foliage. 2,164,030; June 27.
Coleman, Gilbert R., Bellevue, N. Y. Journal bearing. 2,163,586; June 27.
Coleman, Gilbert R., Bellevue, N. Y. Journal bearing. 2,163,587; June 27.
Colgate-Palmolive-Peet Company. (See Ittner, Martin H., assignor.)
Collings, William R., and L. De Pree, assignors to The Dow Chemical Company, Midland, Mich. Making cellulose ethers. 2,163,869; June 27.
Collins, Howard E., La Grange, assignor to Ditto, Incorporated, Chicago, Ill. Copy sheet. 2,163,934; June 27.
Collins, Richard C. (See Gerard, F. W., and Collins.)
Color Research Corporation. (See Grimson, Samuel B., assignor.)
Colt, Samuel S., West Orange, N. J. Extracting form ties from cast concrete. 2,164,031; June 27.
Combustion Engineering Company. (See Moses, A. J., and Chapman, assignors.)
Combustion Engineering Company. (See Zinkernagel, R., and Jackson, assignors.)
Conklin, James W., Audubon, N. J., assignor to Radio Corporation of America. Radio frequency filter. 2,163,775; June 27.
Conn, C. G., Ltd. (See Klemle, Frederick F., assignor.)
Conner, George W. (See Hall, H. R., and Conner.)
Continental Oil Company. (See Waltermire, Fred F., assignor.)
Continental Oil Company. (See Woodyard, K. C., Putnam, and Prescott, assignors.)
Cook, Charles E., South Porcupine, Ontario, assignor to International Detachable Bits & Equipment, Limited, Timmins, Ontario, Canada. Device for fabricating detachable drill bits. 2,163,935; June 27.
Cook, Harry W., Malta, Ohio. Mullion fastening means. 2,163,831; June 27.
Cooksey, Otha, assignor of fifty per cent to S. M. Gorgas, Louisville, Ky. Test light. 2,164,106; June 27.
Cooper, John K. (See Wilson, James G., assignor.)
Corn Products Refining Company. (See Otterbacher, Theodore J., assignor.)
Cornell, Kenneth D. (See Bertnolli, E. C., and Cornell.)
Cornish, Robert E., Berkeley, Calif. Hemorrhage arrester. 2,163,588; June 27.
Corwin, Thomas L., Newark, N. J., and J. L. Hysko, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter station. 2,163,668; June 27.
Cote, Adelard J., Spokane, Wash. Arch support. 2,163,906; June 27.
Coulthard, Albert, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Symmetrical aromatic urea suitable for medicinal purposes. 2,164,229; June 27.
Courtois-Suffit, Roger M. R., and H. E. Tailleferre, Paris, France. Apparatus for marking the position of a vehicle on a map. 2,163,746; June 27.
Covert, Lloyd W., assignor to Röhm & Haas Company, Philadelphia, Pa. Hexanepentols and their preparation. 2,164,268; June 27.
Coviello, Anthony R., assignor of fifteen per cent to W. G. Rush, Tulare, Calif. Plow. 2,163,832; June 27.
Crandall, George S., Woodbury, and W. H. James, Paulsboro, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Diesel fuel. 2,164,151; June 27.
Creamery Package Mfg. Company, The. (See Seymour, Lynn L., assignor.)
Groll, Herbert P. A., Oakland, and G. Hearne, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Esterification of allyl type alcohols and products resulting therefrom. 2,164,188; June 27.
Crosby, Alvin B., Dallas, Tex., deceased; Lena Crosby, administratrix. Envelope-stuffing machine. 2,163,572; June 27.
Crosby, Lena, administratrix. (See Crosby, Alvin B.)
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver.) 2,163,747; June 27.
Crosley Corporation, The. (See Money, Roland H., assignor.)
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crowther, Gilbert R., and J. P. Goodman, assignors of one-third to G. H. Pings, New York, N. Y. Thermal expansion steam trap. 2,163,667; June 27.
Cuddon-Fletcher, Aungus H., near Great Yarmouth, England. Induction system for internal combustion engines. 2,164,230; June 27.
Cunningham, Maud E., Huntington Park, Calif. Brassière strap holder and the like. 2,163,936; June 27.
Current, Ira B., and W. Henrikson, assignors, by mesne assignments to Agfa Ansco Corporation, Binghamton, N. Y. Copying camera. 2,163,776; June 27.
Curtis, George D., et al. (See Mulvaney, Edward L., assignor.)
Cutler-Hammer, Inc. (See Lockett, Ralph G., assignor.)
Cutler-Hammer, Inc. (See Seeger, E. W., and Brown, assignors.)
Daetsch & Woodward, Inc. (See Dietze, Emil, assignor.)
Dällenbach, Walter, Berlin-Charlottenburg, assignors to Julius Pintsch Kommanditgesellschaft, Berlin, Germany. Endless film band reeling apparatus. 2,163,870; June 27.
Dällenbach, Walter, Berlin-Charlottenburg, and A. Allerding, Friedrichshagen, near Berlin, assignors to Julius Pintsch Kommanditgesellschaft, Berlin, Germany. Electron tube. 2,163,589; June 27.
Dalton, William, Schenectady, N. Y., assignor to General Electric Company. Liquid-dispensing apparatus. 2,164,172; June 27.
Danbury-Knudsen, Incorporated. (See Knudsen, Knud, assignor.)
Dauber, Charles D. (See Vail, D. H., and Dauber.)
Day, Albert V. T., Rye, N. Y. Carrier wave signaling. 2,164,032; June 27.
Dayes, Frederick E., Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y. Motor vehicle. 2,163,748; June 27.
Deahl, Kenneth J., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa. Annealing box. 2,163,937; June 27.
Dean, John M., Jr., Putnam, Conn. Phonograph style. 2,164,199; June 27.
Dean, William T., Gary, Ind. Removable top for soaking pits. 2,163,727; June 27.
De Bellis, Aldo M., Summit, N. J., assignor to Railway and Industrial Engineering Company. Disconnect switch. 2,164,231; June 27.
Deere & Company. (See White, Charles H., assignor.)
De Forest, Lee, assignor to American Television Laboratories, Inc., Hollywood, Calif. Radial scanning television system. 2,163,749; June 27.
De Ganahl, Carl, Bristol, and T. B. Lavelle, Langhorne, assignors to Fleetwings, Inc., Bristol, Pa. Method and apparatus for welding corrugated sheets to flat sheets. 2,163,590; June 27.
Delmas, Robert L., Paris, France. Control mechanism for change-speed gears of motor vehicles and the like. 2,163,975; June 27.
De Pree, Lee. (See Collings, W. R., and De Pree.)
Detroit Hydrostatic Brake Corporation. (See Sauzedde, Claude, assignor.)
Deutsch, Leopold, Girard, Ohio. Traveler's protection order. 2,163,777; June 27.
Deverall, Charles N., Buffalo, assignor to Niagara Blower Company, New York, N. Y. Multiple tube coil unit. 2,163,591; June 27.
De Vout, Anson W., La Grange, assignor to Industrial Patents Corporation, Chicago, Ill. Humidity control. 2,163,907; June 27.
Dews, Joseph W., Waterbury, Conn., assignor to Scovill Manufacturing Company. Snap fastener stud. 2,164,053; June 27.

D'Heedene, Albert R., Lynbrook, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High frequency transmission system. 2,163,750; June 27.

Dibner, Bern, Peekskill, and J. Rogoff, New York, N. Y., assignors to Burndy Engineering Co., Inc. Sheet metal split-bolt connector. 2,164,006; June 27.

Dickey, Paul S., Cleveland, Ohio, assignor to Bailey Meter Company. Control system. 2,163,592; June 27.

Dickson, John G., San Diego, Calif. Template. 2,163,938; June 27.

Didden, Carl, St. Louis, Mo. Machine for straightening and polishing rods and tubes. 2,163,669; June 27.

Diescher, Alfred J., Winfield, Kans., assignor to B. E. Hepler, New York, N. Y. Generating gas. 2,163,871; June 27.

Dietze, Emil, Richmond Hill, assignor to Daetsch & Woodward, Inc., Brooklyn, N. Y. Collapsible last. 2,164,054; June 27.

Dillenburger, Wolfgang, Berlin-Zehlendorf, assignor to the firm Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Modulation. 2,163,939; June 27.

Ditcham, William T., Chelmsford, England, assignor to Radio Corporation of America. Carrier wave transmitter. 2,163,670; June 27.

Ditto, Incorporated. (See Collins, Howard E., assignor.)

Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,163,940; June 27.

Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,163,941; June 27.

Doherty, H. L., New York, N. Y., assignor, by mesne assignments, to Power Patents Company, Jersey City, N. J. Process and apparatus for distilling oil. 2,164,132; June 27.

Dorcas, Merrill J., Berea, Ohio, G. C. Supplee, Bainbridge, N. Y., and F. Remesch, jr., Parma, Ohio, assignors of one-half to The Borden Company, and one-half to National Carbon Company, Inc. Fluid irradiator. 2,163,573; June 27.

Dorcas, Merrill J., Berea, Ohio, G. C. Supplee, Bainbridge, N. Y., and F. Remesch, jr., Parma, Ohio, assignors of one-half to The Borden Company, and one-half to National Carbon Company, Inc. Fluid irradiator. 2,163,574; June 27.

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection means. 2,164,200; June 27.

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection apparatus. 2,164,201; June 27.

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection apparatus. 2,164,202; June 27.

Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection means. 2,164,203; June 27.

Dow Chemical Company, The. (See Collings, W. R., and De Pree, assignors.)

Dow Chemical Company, The. (See Hooker, George W., assignor.)

Downey, George T., assignor to Aero Supply Mfg. Co. Inc., Corry, Pa. Fuel cock assembly. 2,164,232; June 27.

Drabin, John J., New York, N. Y., assignor, by mesne assignments, to Bragg-Kliesrath Corporation, South Bend, Ind. Automatic transmission. 2,163,872; June 27.

Draeger, Rupert H., U. S. Navy. Reading machine. 2,163,593; June 27.

Draisbach, Fritz, Ludwigshafen-on-the-Rhine, Germany. Processed cheese and preparing the same. 2,163,778; June 27.

Draving, Arthur M., assignor to Hugh H. Eby, Inc., Philadelphia, Pa. Electrical terminal prong. 2,163,779; June 27.

Droll, Joseph W., Chicago, and A. H. Olson, Evanston, assignors to Droll Patents Corporation, Chicago, Ill. Mattress tufting machine. 2,163,780; June 27.

Dröll Patents Corporation. (See Droll, J. W., and Olson, assignors.)

Dubbs, Benton E., Kokomo, Ind. Self-clearing rake. 2,164,233; June 27.

Dufour, René A., Paris, and H. A. Leduc, Mantes-Gassicourt, France. Device for the vulcanization of rubber. 2,163,993; June 27.

Dumke, Willy. (See Schimkus, K. E., and Dumke.)

Du Mont, Allen B., Laboratories, Inc. (See Goldsmith, Thomas T., Jr., assignor.)

Dunning, Orville M., Glen Ridge, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Sound recording and reproducing system. 2,163,671; June 27.

Du Pont, E. I., de Nemours & Company. (See Carothers, W. H., and Graves, assignors.)

Du Pont, E. I., de Nemours & Company. (See Henke, C. O., and Benner, assignors.)

Du Pont, E. I., de Nemours & Company. (See Spanagel, Edgar W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Tanner, Herbert G., assignor.)

Du Pont, E. I., de Nemours & Company. (See Werntz, James H., assignor.)

Durrell, Ernest L., Jersey City, N. J., and M. T. Archer, Toledo, Ohio, assignors to The National Supply Company, Pittsburgh, Pa. Hydraulic power transmission apparatus. 2,164,173; June 27.

Dyckerhoff, Dr. Ing. e. h. Eduard. (See Steinert, Johannes, assignor.)

Dyer, John W., Netley Abbey, Southampton, England, and D. Kay, Edinburgh, assignors to Kay Gyroplanes Limited, Edinburgh, Scotland. Aircraft. 2,163,728; June 27.

Dyrr, Jacob V., Bell, Calif., assignor to International Harvester Company, Chicago, Ill. Intergeared offset disk harrow. 2,164,204; June 27.

Eagle Pencil Company. (See Schaefer, Max, assignor.)

Eastman Kodak Company. (See Figg, Louis J., Jr., assignor.)

Eastman Kodak Company. (See Von Bramer, H., and Ruggles, assignors.)

Eby, Hugh H., Inc. (See Draving, Arthur M., assignor.)

Eclipse Aviation Corporation. (See Lansing, R. P., and Allen, assignors.)

Edeby, John A., et al. (See Nilson, Harold, assignor.)

Edison, Thomas A., Incorporated. (See Dunning, Orville M., assignor.)

Edwal Laboratories, Inc., The. (See Lowe, Edmund W., assignor.)

Edwards, William K., Big Spring, and O. Thompson, Wickett, Tex. Flow preventer for oil wells. 2,163,976; June 27.

Efron, Alexander, assignor to Checkmaster Plan, Inc., New York, N. Y. Filing box. 2,164,133; June 27.

Eggert, John, Leipzig, and B. Wendt, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic developing process. 2,163,781; June 27.

Eissmann, Oswald E., assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Apparatus for comminuting and classifying tobacco. 2,163,833; June 27.

Ekbom, Hilmer N., and E. Korensky, Chicago, Ill., assignors to Link-Belt Company. Swivel roller construction. 2,163,729; June 27.

Electrical Research Products, Inc. (See Kennedy, Edward P., assignor.)

Elenbaas, Willem. (See van Liempt, J. A. M., and Elenbaas.)

Elliott, John A., et al. (See McCandless, Lyon, assignor.)

Elistrom, Elmer G., Webster Groves, Mo. Container. 2,164,055; June 27.

Engelmann, Edward W., and H. E. Wurzbach, Magna, Utah. Drying, heating, or roasting conveyer apparatus. 2,164,056; June 27.

Engels, William H., Rahway, and G. A. Stein, Elizabeth, assignors to Merck & Co. Inc., Rahway, N. J. Production of amino acids. 2,163,594; June 27.

Englund, John E., Warwick, R. I., assignor to Brown and Sharpe Manufacturing Company. Power transmission mechanism. 2,163,595; June 27.

Equitable Paper Bag Co. Inc. (See Poppe, George W., assignor.)

Erren, Rudolf A., London, England. Charging internal combustion engines. 2,164,234; June 27.

Escher Wyss Maschinenfabriken Aktiengesellschaft. (See Keller, Curt, assignor.)

Evans, Theodore W., Berkeley, and E. F. Bullard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Secondary ethers of polyhydric alcohols. 2,164,007; June 27.

Fairbairn, Walter M. (See Johnson, A. M., and Fairbairn.)

Fairbanks, Morse & Co. (See Anderson, Gordon R., assignor.)

Farnsworth Television & Radio Corporation. (See Snyder, Richard L., assignor.)

Fawthrop, William D., assignor to I. F. Laucks, Inc., Seattle, Wash. Adhesive and making the same. 2,164,269; June 27.

Ferguson, Frank. (See Ziefler, R. A., and Ferguson.)

Fernseh Aktiengesellschaft. (See Dillenburger, Wolfgang, assignor.)

Fernseh Aktiengesellschaft. (See Schwartz, Erich, assignor.)

Ferris, Walter, Milwaukee, Wis. Sectional drive. 2,163,672; June 27.

Fetzer, Walter R., Clayton, Mo., assignor to Union Starch and Refining Company, Columbus, Ohio. Composition of matter derived from starch and making the same. 2,163,782; June 27.

Figg, Louis J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Denatured alcohol containing dibenzylamine. 2,163,834; June 27.

Fink, Henry W., assignor to Tropic-Aire, Incorporated, Minneapolis, Minn. Fluid control valve. 2,164,057; June 27.

Fischer, Arnold F., Astoria, Long Island, assignor to Hobbs Sales & Service Station, Inc., New York, N. Y. Clutching mechanism. 2,163,596; June 27.

Fischer, Erich, Bad Soden in Taunus, and R. Huss and W. Gmelin, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Monoazo dyestuffs soluble in water. 2,164,008; June 27.

Fischer, Jakob J., Aarau, Switzerland. Device for cutting and clamping the needle thread of sewing machines. 2,163,994; June 27.

Fisher, Henry W., Perth Amboy, N. J., assignor to General Cable Corporation, New York, N. Y. Cable installation. 2,163,783; June 27.

Fleetwings, Inc. (See de Ganahl, C., and Lavelle, assignors.)

Flint, Hyland C., Royal Oak, Mich., assignor to Patent Sales, Inc. Seat construction. 2,163,751; June 27.

Flosdorf, Earl W., Ardmore, assignor to The Trustees of the University of Pennsylvania, Philadelphia, Pa. Laboratory apparatus. 2,163,996; June 27.

Fohn, Adolf E., assignor to Aurora Steel Products Company, Aurora, Ill. Closure lock. 2,163,752; June 27.

Forrer, Henry A., assignor to John-Full Steel Products, Inc., Canton, Ohio. Multiple locker. 2,163,835; June 27.

Fort Smith Structural Steel Company. (See Sugarman, Barney, assignor.)

Fortunato, Vincent, assignor to The Mounting & Finishing Co. Inc., Brooklyn, N. Y. Easel. 2,164,152; June 27.

Fowler, Fred D., Newton, assignor to Hood Rubber Company, Inc., Watertown, Mass. Method and apparatus for making rubber strips. 2,164,058; June 27.

Frank, Edward J., Yeadon, Pa., assignor to General Electric Company. High voltage electric circuit interrupter. 2,164,175; June 27.

French, James W., Anniesland, Glasgow, assignor to Barr and Stroud Limited, Glasgow, Scotland. Rangefinder and like optical measuring instrument. 2,164,107; June 27.

Friedrich, Wilhelm, Berlin-Charlottenburg, Germany. Apparatus for producing fire extinguishing foam. 2,164,153; June 27.

Frohlich, Alfred. (See Wilmanns, G., Schneider, and Frohlich.)

Frost, Chester L., et al. (See Higgins, I. W., and Pickett, assignors.)

Fuller, Raymond C., assignor to Henry Vogt Machine Co., Louisville, Ky. Scraper for double pipe chillers. 2,163,995; June 27.

Fuller, William J., assignor to J. E. Wrightsman, Los Angeles, Calif. Wind wing. 2,164,059; June 27.

Gammeter, John R., Akron, Ohio. Treating dipped rubber articles. 2,163,784; June 27.

Gardner, Dwight R. (See Baker, D. G., and Gardner.)

Gardner, Joseph A. (See Pittman, R. A., and Gardner.)

Garlock, Lewis F., assignor to S. R. Browne Mfg. Co., Inc., New York, N. Y. Lighting device. 2,163,673; June 27.

Garner, Stephen H., assignor to Leach & Garner Company, Attleboro, Mass. Finger ring blank and making same. 2,164,060; June 27.

Garner, Walter, Menston-in-Wharfedale, England. Treating textiles and oils therefor. 2,164,235; June 27.

Garner, Walter, Menston-in-Wharfedale, England. Treating textiles and oils therefor. 2,164,236; June 27.

Garner, Walter, Menston-in-Wharfedale, England. Treating textiles and oils therefor. 2,164,237; June 27.

Gas Products Corporation. (See Parker, Claude E., assignor.)

Gates Manufacturing Company. (See Lane, Fred O., assignor.)

General Aniline Works, Inc. (See Fischer, E., Huss, and Gmelin, assignors.)

General Aniline Works, Inc. (See Koeberle, Karl, assignor.)

General Auto Parts Corporation. (See Rockwell, Edward A., assignor.)

General Cable Corporation. (See Fisher, Henry W., assignor.)

General Electric Company. (See Cartun, P. O., and Pew, assignors.)

General Electric Company. (See Dalton, William, assignor.)

General Electric Company. (See Frank, Edward J., assignor.)

General Electric Company. (See Jones, Benjamin W., assignor.)

General Electric Company. (See Moore, Abram J., assignor.)

General Electric Company. (See Shoults, David R., assignor.)

General Electric Company. (See Sporn, P., and Muller, assignors.)

General Electric Company. (See van Liempt, J. A. M., and Elenbaas, assignors.)

General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)

General Manifold & Printing Co. (See Lewis, Edward Z., assignor.)

General Motors Corporation. (See Beiderman, Edward G., assignor.)

General Motors Corporation. (See Biederman, Edward G., assignor.)

General Motors Corporation. (See Clements, F. O., Terry and Henry, assignors.)

General Railway Signal Company. (See Howe, Winthrop K., assignor.)

General Time Instruments Corporation. (See Ostler, Ernest S., assignor.)

Gentle, Alexander H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of pile fabrics. 2,163,674; June 27.

George, Fred, Lakewood, Ohio, assignor to Interchemical Corporation, New York, N. Y. Gravure printing. 2,164,270; June 27.

Gerard, Frank W., De Witt, N. Y., and R. C. Collins, Newton Highlands, Mass., assignors to The Lamson Company, Syracuse, N. Y. Hydroextractor. 2,164,174; June 27.

Germond, Paul D., Bayonne, N. J. Hydraulic lift truck. 2,163,675; June 27.

Getchell, Benjamin E., Plainville, Conn., and J. C. R. Stone, Belmont, Mass., assignors to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric pasteurizing apparatus. 2,164,009; June 27.

Gibbons, Chester H., Drexel Hill, Pa., assignor to Baldwin-Southwark Corporation. Apparatus for determining rate of strain. 2,163,873; June 27.

Gibbons, James A., North Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Cable trolley. 2,164,205; June 27.

Ginder, William H., Haddonfield, N. J., assignor of one-fourth to F. B. Moore, Upper Darby, Pa. Electric heating unit and making same. 2,163,942; June 27.

Githens, Otto W., New York, J. Norden, Astoria, and E. G. Mannerberg, Brooklyn, assignors, by mesne assignments, to Universal Camera Corporation, New York, N. Y. Camera. 2,164,061; June 27.

Gits, Joseph A., and J. P., Chicago, Ill. Pull knob. 2,164,206; June 27.

Gits, Jules P. (See Gits, Joseph A., and J. P.)

Gizzarelli, Nicholas, Warren, R. I. Electrician's tool. 2,163,676; June 27.

Globe Steel Tubes Co. (See Ihrig, Harry K., assignor.)

Gmelin, Walter. (See Fischer, E., Huss, and Gmelin.)

Goelier, Robert A., Larchmont, N. Y. Connector. 2,163,677; June 27.

Goepfrich, Rudolph A., assignor to Bendix Products Corporation, South Bend, Ind. Compressor for hydraulic brakes. 2,163,874; June 27.

Goetzl, Manlio, Trieste, Italy. Integrating calorimeter. 2,163,730; June 27.

Goldsmith, Thomas T., Jr., Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Upper Montclair, N. J. Method and system for television communication. 2,164,176; June 27.

Goodman, Joseph P. (See Crowther, G. R., and Goodman.)

Goodman Manufacturing Company. (See Slomer, Joseph J., assignor.)

Goodwillie, David H. (See Watkins, G. B., and Goodwillie.)

Gorgas, Stanley M. (See Cooksey, Otha, assignor.)

Gourley, Hillman, Whittier, Calif. Oiling attachment for saws. 2,164,238; June 27.

Graves, George D. (See Carothers, W. H., and Graves.)

Grayson, Charles J., assignor to Grayson Manufacturing Company, Huntington, W. Va. Illuminating apparatus for ovens or the like. 2,164,239; June 27.

Grayson Manufacturing Company. (See Grayson, Charles J., assignor.)

Great Lakes Pipe Line Company. (See Bertnolli, E. C., and Cornell, assignors.)

Great Western Sugar Company, The. (See Brown, R. J., Nees, and Carney, assignors.)

Greulich, Gerald G., Mount Lebanon, Pa. Protected bearing pile. 2,164,108; June 27.

Grimson, Samuel B., assignor to Color Research Corporation, New York, N. Y. Diffraction method of and apparatus for color photography. 2,164,062; June 27.

Grove, Marvin H., Berkeley, Calif. Fluid flow regulator. 2,163,597; June 27.

Grupe, William F., Lyndhurst, assignor to Peerless Roll Leaf Co., Inc., Union City, N. J. Mounting a metallic film on a carrier. 2,164,010; June 27.

Guardite Corporation, The. (See Pilkey, Orrin H., assignor.)

Guiducci, Igino, Tivoli, Italy. Double safety washer for nuts of threaded bolts. 2,164,109; June 27.

Guinot, Henri M., Niort, Deux-Sevres, assignor to Usines de Melle, Melle, France. Manufacture of chlorohydrins. 2,164,240; June 27.

Gundlach, Henry R., Baltimore, Md., assignor to Central Commercial Company. Colored roofing granule. 2,163,678; June 27.

Gundlach, Henry R., Baltimore, Md., and P. Teetor, Poultney, Vt., assignors to Central Commercial Company. Coloring roofing granules. 2,163,679; June 27.

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Garment hanger. 2,164,208; June 27.

Guyer, Reynolds, and R. B. Lewis, Jr., assignors to Waldorf Paper Products Company, St. Paul, Minn. Garment hanger. 2,164,207; June 27.

Haas, Frederick S., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Blacklash-eliminating mechanism for machine tools. 2,163,836; June 27.

Hähnle, Hermann, Glengen-on-the-Brenz, Germany. Obtaining power outputs. 2,164,134; June 27.

Hall, Elwin B. (See Armentrout, A. L., and Hall.)

Hall, Harold R., Cleveland Heights, and G. W. Conner, Cleveland, Ohio. Dentists' gold-recovering drain attachment. 2,163,837; June 27.

Hall Laboratories, Inc. (See Smith, George W., assignor.)

Hall, William H., Jr., assignor to Thermoid Company, Trenton, N. J. Fabric spreading means. 2,164,241; June 27.

Halligan, Clair W., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,164,033; June 27.

Hallot, Paul, Paris, France. Automatic regulating device for brakes. 2,163,731; June 27.

Hammond, Howard L. (See McCleary, L. F., and Hammond.)

Hancock, John R. (See Howey, W., Woodward, and Hancock.)
Handy, Robert G., Detroit, Mich. Carburetor controlling device. 2,163,997; June 27.
Handy, Royal S., Kellogg, Idaho. Flotation reagent. 2,164,063; June 27.
Hannifin Manufacturing Co. (See Peterson, V. W., and Maha, assignors.)
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Single side band modulation. 2,163,680; June 27.
Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Mercury rectifier. 2,163,785; June 27.
Hansen, Chris K., St. Paul, Minn. Flexible cope. 2,163,681; June 27.
Hansen, Edmund H. (See McFarlane, M. D., and Hansen.)
Hart, Dudley W., and E. F. Wickens, Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Forging device. 2,163,786; June 27.
Harvey, Herbert, assignor to L. M. Harvey, Los Angeles, Calif. Paper roll holder. 2,164,064; June 27.
Harvey, Leo M. (See Harvey, Herbert, assignor.)
Hass, Henry B., West Lafayette, and B. M. Vanderbilt, Terre Haute, assignors to Purdue Research Foundation, Lafayette, Ind. Secondary aminoalcohols. 2,164,271; June 27.
Hatheway, William E. (See Olmstead, Wilbur E., assignor.)
Haynes, John W., Susanville, Calif. Clarinet. 2,164,110; June 27.
Hearne, George. (See Groll, H. P. S., and Hearne.)
Hebard, Glen G. (See Carr, R. H., Saxon, Hebard, and Neal.)
Hechenbleikner, Ingenuin. (See Morton, A. A., and Hechenbleikner.)
Heeren, John A., Le Mars, Iowa. Leveling shovel attachment for tractor front wheels. 2,163,682; June 27.
Heller, Ferdinand F., Royersford, Pa. Cutting and setting rivets. 2,163,683; June 27.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriter machine. 2,163,943; June 27.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,163,944; June 27.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,163,945; June 27.
Hendrickson, Niels E., assignor to The Mather Spring Company, Toledo, Ohio. Spring terminal reinforcement. 2,163,875; June 27.
Henecka, Hans, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Derivatives of phenanthroline and preparing the same. 2,163,946; June 27.
Henke, Clyde O., Wilmington, Del., and R. G. Benner, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Ill. Hydrogenation of mono nitrated alkoxy benzenes. 2,164,154; June 27.
Henkel & Cie G. m. b. H. (See Reuss, W., and von und zu Guttenberg, assignors.)
Henneberg, Walter, and A. Recknagel, assignors to Allgemeine Elektricitats Gesellschaft, Berlin, Germany. Electron device. 2,163,787; June 27.
Hennefer, Fred L., Salt Lake City, Utah. Eraser cleaner. 2,163,788; June 27.
Henrikson, William. (See Current, I. B., and Henrikson.)
Henry, Abner E., Greensburg, Pa. Umbrella. 2,164,242; June 27.
Henry, Donald J. (See Clements, F. O., Terry, and Henry.)
Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Copper chromium magnesium alloy. 2,164,065; June 27.
Hepler, B. E. (See Diescher, Alfred J., assignor.)
Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selector switch. 2,164,034; June 27.
Higgins, Andrew J., New Orleans, La. Double planked hull construction. 2,163,998; June 27.
Higgins, Ira W., and H. L. Pickett, assignors of one-fourth to E. S. Newton and one-fourth to C. L. Frost, Chattanooga, Tenn. Hydraulic safety device. 2,164,272; June 27.
Hilborn, Walter S., Covina, assignor to D. F. Ainslee, Ontario, Calif. Orchard heating system. 2,164,011; June 27.
Hill, Matthew E., assignor to The Holfast Rubber Company, Atlanta, Ga. Clamp for vulcanizing patches. 2,163,876; June 27.
Hillside Cable Co. (See Wertzheiser, J., and Charmoy, assignors.)
Hines, Claude M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch controlling apparatus. 2,163,838; June 27.
Hobbs Sales & Service Station, Inc. (See Fischer, Arnold F., assignor.)
Hobson, Walter, Philadelphia, Pa., and H. H. Woodrow, Milford, Del. Track rail grinding machine. 2,163,908; June 27.
Hochberger, John, Chicago, Ill. Sewer rod guide. 2,163,947; June 27.
Hodson Corporation, The. (See Hodson, Walter O., assignor.)
Hodson, Walter D., assignor to The Hodson Corporation, Chicago, Ill. Multiple pressure lubricator. 2,164,273; June 27.
Hoffman, Daniel C., et al. (See Rust, Mack D., assignor.)
Hogg, William J., assignor to The National Acme Company, Cleveland, Ohio. Threading die. 2,163,598; June 27.
Holfast Rubber Company, The. (See Hill, Matthew E., assignor.)
Holle, Otto E., Decatur, Ind. Planter shoe. 2,164,066; June 27.
Holmes, Harry H., assignor to Wildt and Company Limited, Leicester, England. Knitted fabric. 2,164,289; June 27.
Holmes, Mark B., and A. L. Rowland, Utica, N. Y. Autographic register machine. 2,163,684; June 27.
Honig, Adriaan N., Hilversum, assignor to Naamlooze Vennootschap: Oliefabrieken "Het Hart" en "De Zwaan" voorheen Adriaan Honig, Zaandan, Netherlands. Device for conveying and stripping press cakes. 2,163,839; June 27.
Honig, Frank, Edgewood, R. I. Thread twisting apparatus. 2,163,789; June 27.
Hood Rubber Company. (See Fowler, Fred D., assignor.)
Hooker, George W., assignor to The Dow Chemical Company, Midland, Mich. Making bromine. 2,163,877; June 27.
Hoover, Arthur M. (See Raney, E. C., and Hoover.)
Hoover, Frank S. (See Shriver, J. W., and Hoover.)
Hornung, Timothy F., Oroville, Calif. Rotary dicing machine. 2,163,878; June 27.
Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Dover, Del. Control of heat exchange. 2,163,599; June 27.
Houdry Process Company. (See Houdry, Eugene J., assignor.)
House, Bryan E., assignor to Bendix Brake Company, South Bend, Ind. Brake. 2,163,879; June 27.
Houston, George F., Hamilton, Ohio, and R. S. Sanford, New York, N. Y., assignors to Bendix Products Corporation, South Bend, Ind. Gear shifting mechanism. 2,163,880; June 27.
How, Harlan W., assignor to Struthers Wells-Titusville Corporation, Titusville, Pa. Separator. 2,163,600; June 27.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Railway traffic controlling system. 2,163,881; June 27.
Howey, Walter, B. Woodward, and J. R. Hancock, New York, N. Y., assignors to Lee Electric Corporation, Demarest, N. J. Remote control photoelectric engraving. 2,164,209; June 27.
Howsam, Hilyard C., assignor to Hubbard Spool Company, Chicago, Ill. Spool construction. 2,163,685; June 27.
Hubbard, Michael E., Paris, France. Liquid level gauge. 2,164,243; June 27.
Hubbard Spool Company. (See Howsam, Hilyard C., assignor.)
Huber, J. M., Corporation. (See Price, Howard W., assignor.)
Huebner, William C., New York, N. Y. Forming a printing element. 2,163,948; June 27.
Humes, James T., Harrisonburg, Va. Transfer article. 2,163,601; June 27.
Hund, Walter J., Oakland, and L. Rosenstein, assignors to Shell Development Company, San Francisco, Calif. Treatment of nonmineral fatty matter raffinates. 2,164,012; June 27.
Hund, Walter J., and D. H. Rowe, Oakland, assignors to Shell Development Company, San Francisco, Calif. Fatty matter refining process. 2,164,189; June 27.
Hunker, Martin L., assignor to Reeves Steel and Manufacturing Company, Dover, Ohio. Sheet metal roofing. 2,163,840; June 27.
Hunt, George H., assignor to Motor Wheel Corporation, Lansing, Mich. Brake booster. 2,163,686; June 27.
Hurd, Norman B., Newington, assignor to The American Hardware Corporation, New Britain, Conn. Lock. 2,164,290; June 27.
Huss, Richard. (See Fischer, E., Huss, and Gmelin.)
Hydril Company. (See Stone, Frederick and A. L., assignors.)
Hygienic Arts Corporation. (See McGerry, James J., assignor.)
Hysko, John L. (See Corwin, T. L., and Hysko.)
I. G. Farbenindustrie Aktiengesellschaft. (See Moeller, August, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schneider, K., and Schunck, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Stoewener, Fritz, assignor.
Ihrig, Harry K., assignor to Globe Steel Tubes Co., Milwaukee, Wis. Making hot molding die plates and other castings and product thereof. 2,163,753; June 27.
Imperial Chemical Industries Limited. (See Coulthard, Albert, assignor.
Imperial Chemical Industries Limited. (See Lawrie, L. G., Reynolds, and Walker, assignors.)
Imperial Chemical Industries Limited. (See Piggott, Henry A., and Statham, assignors.)
Industrial Development and Manufacturing Corporation. (See Thomes, F. E., and Nugent, assignors.)

Industrial Patents Corporation. (See De Vout, Anson W., assignor.)
Industrial Patents Corporation. (See Mitchell, Harold S., assignor.)
Industrial Patents Corporation. (See Nevin, Harry W., assignor.)
Industrial Patents Corporation. (See Standice, Alonzo, assignor.)
Industrial Patents Corporation, (See Walter, Charles T., assignor.)
Industrial Patents Corporation. (See Wright, David M., assignor.)
Ingersoll Milling Machine Company, The. (See Strawn, M. L., and Oberhoffken, assignors.)
Ingersoll-Rand Company. (See Hart, D. W., and Wickens, assignors.)
Interchemical Corporation. (See George, Fred, assignor.)
Intermetal Corporation. (See Jenness, Leslie G., assignor.)
International Detachable Bits & Equipment, Limited. (See Cook, Charles E., assignor.)
International Harvester Company. (See Dyrr, Jacob V., assignor.)
International Harvester Company. (See Johnson, Arnold E. W., assignor.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Harvester Company. (See Smith, Hiram P., assignor.)
International Harvester Company. (See Walker, Earl C., assignor.)
International Steel Wool Corporation. (See Styhr, Miles A., assignor.)
Irving Air Chute Co. Inc. (See Waite, G., and Rogers, assignors.)
Irving Air Chute of Great Britain Limited. (See Pool, Joseph H., assignor.)
Ittner, Martin H., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Distillation of glycerin. 2,164,274; June 27.
Ittner, Martin H., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Distillation of glycerin. 2,164,275; June 27.
Ittner, Martin H., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Distillation of glycerin. 2,164,276; June 27.
Ivanek, Otto, Lyndhurst, N. J. Interchangeable line-up. 2,163,978; June 27.
Jacks, Charles O., Reno, Nev. Trailer hitch. 2,163,999; June 27.
Jackson, Corwill, Ludington, Mich. Concrete placing apparatus. 2,163,882; June 27.
Jackson, George P. (See Zinkernagel, R., and Jackson.)
Jacobsen, Arthur J., assignor to Bucyrus-Monighan Company, Chicago, Ill. Cutting. 2,163,687; June 27.
James, Lewis A., assignor to The James Washer Company, Inc., Independence, Kans. Agitator. 2,164,277; June 27.
James Washer Company, The. (See James, Lewis A., assignor.)
James, William H. (See Crandall, G. S., and James.)
Jenkins, Vance N., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Separating oil and wax. 2,164,013; June 27.
Jenness, Leslie G., Brooklyn, N. Y., assignor to Intermetal Corporation, Newark, N. J. Catalyst for and process of selectively carrying out catalytic reactions. 2,163,602; June 27.
Jenness, Leslie G., Englewood, assignor to Intermetal Corporation, Newark, N. J. Hydrogenation. 2,163,603; June 27.
Jenness, Leslie G., Englewood, assignor to Intermetal Corporation, Newark, N. J. Hydrogenated oil product. 2,164,291; June 27.
Jenness, Leslie G., Englewood, assignor to Intermetal Corporation, Newark, N. J. Producing hydrogen. 2,164,292; June 27.
Jeremiassen, Finn, assignor to Aktieselskapet Krystal, Oslo, Norway. Apparatus and method for treating granular materials with flowing liquids. 2,164,111; June 27.
Jeremiassen, Finn, assignor to Aktieselskapet Krystal, Oslo, Norway. Crystallization process. 2,164,112; June 27.
John-Full Steel Products, Inc. (See Forrer, Henry A., assignor.)
Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Honing machine. 2,163,604; June 27.
Johnson, Albert M., and W. M. Fairborn, assignors to Barnes Drill Co., Rockford, Ill. Machine for dressing external cylindrical surfaces. 2,164,067; June 27.
Johnson, Arnold E. W., Chicago, Ill., assignor to International Harvester Company. Hitch for offset harrows. 2,164,210; June 27.
Johnson, Arnold E. W., Chicago, Ill., assignor to International Harvester Company. Harrow construction. 2,164,211; June 27.
Johnson, Glenn D. (See MacClatchie, J. W., Johnson, and Thies.)
Johnson, Julian E., Chicago, Ill. Pneumatic spring suspension means. 2,164,068; June 27.
Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Traffic-signal controller. 2,164,177; June 27.
Jones, Frederick McK., Minneapolis, Minn., assignor to Nation-Wide Manufacturing Corporation, New York, N. Y. Ticket dispensing machine. 2,163,754; June 27.
Jones, Walter I., Arlington, assignors to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener member. 2,164,014; June 27.
Jones, Warren E., Chicago, Ill. Eraser, erasing material, and forming the same. 2,164,035; June 27.
Jordan, William J., Jr., Algiers, La. Plaster base unit. 2,164,069; June 27.
Jung, Albert H., Flushing, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Applicator. 2,164,244; June 27.
Judson, Walter E., Sylvania, Ohio. Scraper attachment for push brooms. 2,163,979; June 27.
Kampa, George L., Minneapolis, Minn. Speed responsive switch. 2,163,605; June 27.
Kassover, Geraldine, Bayonne, N. J. Hair curler. 2,164,135; June 27.
Kateley, Francis W., Upper Darby, assignor to The J. G. Brill Company, Philadelphia, Pa. Brake shoe assembly. 2,164,015; June 27.
Kautsky, Joseph H., assignor to O. C. Catterlin, Indianapolis, Ind. Extractor. 2,164,016; June 27.
Kavanagh, Frank W. (See Neely, G. L., and Kavanagh.)
Kay, David. (See Dyer, J. W., and Kay.)
Kay Gyroplanes Limited. (See Dyer, J. W., and Kay, assignors.)
Kearney, Daniel P., Birmingham, Mich., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,163,841; June 27.
Kearney, James R., Corporation. (See O'Russa, Lorence, assignor.)
Kearney, James R., Corporation. (See Tallman, Oscar F., assignor.)
Kell, Gustav B., St. Joseph, Mich., assignor to Nineteen Hundred Corporation, Binghamton, N. Y. Attachment for washing machines. 2,164,070; June 27.
Kellems, Edgar E., Eugene, Oreg., assignor to Kellems Products, Inc., New York, N. Y. Gripping device. 2,164,278; June 27.
Kellems Products, Inc. (See Kellems, Edgar E., assignor.)
Keller, Curt, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland. Plant for the investigation of hydraulic machines. 2,164,000; June 27.
Kennedy, Edward P., Berwyn, Ill., assignor to Electrical Research Products, Inc., New York, N. Y. Acoustic device. 2,164,157; June 27.
Kennedy, Richard O., Troy, and R. A. Ziegler, Douglaston, Long Island, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Shirt. 2,163,606; June 27.
Kerr, Orval C., Long Beach, Calif. Protective covering for dead ends. 2,163,790; June 27.
Keyes Fibre Company. (See Schwertfeger, Walter J., assignor.)
Keystone Controls, Inc. (See Bond, Alexander R., assignor.)
Kiemle, Frederick F., Elmwood Park, Ill., assignor to C. G. Conn, Ltd., Elkhart, Ind. Rubber holder for cymbals. 2,163,949; June 27.
Klenzle, Otto, Berlin-Sudende, Germany. Spindle press. 2,164,245; June 27.
Kliesel, John S., et al. (See Kliesel, William F., Jr., assignor.)
Kliesel, William F., Jr., Hollidaysburg, Pa., assignor of one-third to V. K. Rutan, Chevy Chase, Md., one-third to J. S. Kliesel, Williamsport, Pa., and one-third to W. F. Kliesel, 3d, Stewart Manor, Long Island, N. Y. Smoke box arrangement. 2,163,690; June 27.
Kliesel, William F., 3d, et al. (See Kliesel, William F., Jr., assignor.)
Killefer Manufacturing Corporation. (See Sanders, Lorne, assignor.)
Kingston Products Corporation. (See Douglas, Harry A., assignor.)
Kirkpatrick, Roe Q., Anderson, Ind. Sod cutter. 2,164,246; June 27.
Kitzeman, George G., Chicago, Ill. Basting device for cooking meats, vegetables, and the like. 2,164,072; June 27.
Kleaver, Estelle B. (See Bettis, William I., assignor.)
Kleineberg, Paul E., P. Schweizer, and A. W. Wilks, Easton, Pa., assignors to T. W. & C. B. Sheridan Company, New York, N. Y. Sheet or signature feeding and gathering. 2,163,732; June 27.
Kliesrath, Victor W. (See Sanford, R. S., and Kliesrath.)
Kliesrath, Victor W., assignor to Bendix Aviation Corporation, South Bend, Ind. Gear shifting mechanism. 2,163,883; June 27.
Klomp, Johan W., Boldesti, Rumania, assignor to Shell Development Company, San Francisco, Calif. Apparatus for cementing wells. 2,164,190; June 27.
Knudsen, Alfred, Astra (Chubut), assignor to the firm "Astra" Compañia Argentina de Petróleo Sociedad Anónima, Buenos Aires, Argentina. Apparatus for the continuous distillation of high-boiling hydrocarbons to coke. 2,164,247; June 27.
Knudsen, Knud, Danbury, Conn., assignor to Danbury-Knudsen, Incorporated. Remover for bottle closures. 2,164,191; June 27.

Koeberle, Karl, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Aza compounds of high molecular weight. 2,163,950; June 27.

Kolb, Paul H., Williamsport, Pa. Speed control attachment for speedometers. 2,164,113; June 27.

Kolb, Paul H., Williamsport, Pa. Speed control for motor vehicles. 2,164,114; June 27.

Konishi, Masataro. (See Mochizuki, Gengo, assignor.)

Koppers-Rheolaveur Company. (See Slater, Homer B., assignor.)

Korensky, Edward. (See Ekbom, H. N., and Korensky.)

Krehbiel, Walter D. (See Beckman, Ernest E., assignor.)

Krone, Howard C. (See Meyer, W., and Krone.)

Kuhn, Lawrence, Glidden, Tex. Pipe wrench. 2,163,842; June 27.

Kuhn, Wayne E., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Conversion of hydrocarbon oils and gases. 2,164,293; June 27.

La Bour, Harry E., Elkhart, Ind. Separator for self-priming pumps or the like. 2,163,951; June 27.

Labrie, Anthony, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for manufacturing shoes. 2,163,688; June 27.

Labrie, Anthony, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for manufacturing shoes. 2,163,689; June 27.

La Brie, Ludger E., Detroit, Mich., assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,163,884; June 27.

Labruzzo, Jasper, Brooklyn, N. Y. Shampoo fixture. 2,163,755; June 27.

La Croix, George U., Waltham, Mass. Manifolding device. 2,163,990; June 27.

Lajta, Mor. (See Nekolny, Kurt, assignor.)

Lalor, Fred S., Eagle Grove, and E. Allen, Clarion, Iowa. Safety crossing device. 2,163,980; June 27.

Lamson Company, The. (See Gerard, F. W., and Collins, assignors.)

Lane, Fred O., assignor to Gates Manufacturing Company, Indianapolis, Ind. Flat seam. 2,164,036; June 27.

Lang, C. G., & Son, Inc. (See Lang, Charles G., assignor.)

Lang, Charles G., assignor to C. C. Lang & Son, Inc., Baltimore, Md. Pickle slicing machine. 2,163,791; June 27.

Lang, Wilhelm. (See Ploke, M., and Lang.)

Lansing, Raymond P., Montclair, and J. W. Allen, East Orange, assignors, by mesne assignments, to Eclipse Aviation Corporation. Ignition device for internal combustion engines. 2,163,843; June 27.

Larsen, Earl L. (See Hensel, F. R., and Larsen.)

Lasher, Lester L., Beachmont, W. R. Chesley, Somerville, and J. A. Parks, Jr., Milton, Mass., assignors, by mesne assignments, to Anderson Products, Incorporated. Air venting and vacuum maintaining valve. 2,163,909; June 27.

Lassco Products, Inc. (See Christie, Theodore, assignor.)

Lasserre, Jean, Menneval, near Bernay, France, assignor to S. A. Recherches Etudes Applications Thechniques, R. E. A. T., Geneva, Switzerland. Time fuse for projectiles. 2,164,115; June 27.

Latham, Maurice, Jay, Maine. Utensil. 2,163,733; June 27.

Lattner, Emert J., Cedar Rapids, Iowa. Heating and control means. 2,163,910; June 27.

Laucks, I. C., Inc. (See Fawthrop, William D., assignor.)

Lavarack, Frederick C., Montclair, N. J., and B. Schlesinger, Flushing, assignors to Railroad Accessories Corporation, New York, N. Y. Insulated binding nut. 2,164,017; June 27.

Lavelle, Thomas B. (See De Ganahl, C., and Lavelle.)

Lawrence, Norman E., Fremont, Ohio. Rear wheel suspension for motor vehicles. 2,163,981; June 27.

Lawrie, Leslie G., R. J. W. Reynolds, and E. E. Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Production of laminated fabrics. 2,164,248; June 27.

Leach & Garner Company. (See Garner, Stephen H., assignor.)

Le Blond, Richard K., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Attachment for cutter grinder. 2,164,212; June 27.

Le Blond, R. K., Machine Tool Company, The. (See Le Blond, Richard K., assignor.)

Leduc, Henri A. (See Dufour, R. A., and Leduc.)

Lee Electric Corporation. (See Howey, W., Woodward, and Hancock, assignors.)

Lee, Mack C., Rayne, La., assignor of one-fourth to C. Porter, Port Arthur, Tex. Sugarcane cutter. 2,164,249; June 27.

Leemans, Joseph P., Hoboken, near Antwerp, assignor to Société Générale Metallurgique de Hoboken, Hoboken near Anvers, Belgium. Treatment of substances containing tantalum and niobium. 2,164,279; June 27.

Leighton, George A., Boston, assignor to Sexton Can Company Incorporated, Everett, Mass. Can with spout protector. 2,163,952; June 27.

Leitz, Ernst, G. m. b. H. (See Berek, Max, assignor.)

Lemay, Arthur, New York, N. Y. Automatic grinding device. 2,164,155; June 27.

Leonard, Joseph, Allentown, Pa., assignor to Charis Corporation, New York, N. Y. Foundation garment for women. 2,164,136; June 27.

Levenson, Hattie S., Miami, Fla. Glass greyhound starting box. 2,164,213; June 27.

Leviton Manufacturing Company. (See Wallbillich, Anthony F., assignor.)

Leviton Manufacturing Company. (See Wertzheiser, Joseph, assignor.)

Lewis, Charles B., et al. (See Ryan, John C., assignor.)

Lewis, Edward Z., Evanston, Ill., assignor to General Manifold & Printing Co. Snap-out pack. 2,164,298; June 27.

Lewis, Richard B., Jr. (See Guyer, R., and Lewis, Jr.)

Libbey Glass Company. (See Schutz, Harold R., assignor.)

Libbey-Owens-Ford Glass Company. (See Lowry, Clyde D., assignor.)

Libbey-Owens-Ford Glass Company. (See Watkins, George B., assignor.)

Libbey-Owens-Ford Glass Company. (See Watkins, G. B., and Goodwillie, assignors.)

Lichty, Arthur J., Birmingham, Ala., assignor to Baldwin-Southwark Corporation. Portable room cooling outfit. 2,163,691; June 27.

Liebknecht, Otto, Neubabelsberg, near Berlin, Germany, assignor to The Permutit Company, New York, N. Y. Treatment of water. 2,164,156; June 27.

Lillenfeld, Leon, Vienna, Austria. Manufacture of artificial threads or other products from cellulose compounds. 2,163,607; June 27.

Limbers, Don R., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Lehr drive for sheet glass machine. 2,164,071; June 27.

Lincoln, John, Gary, Ind. Automatic seat folding device. 2,164,116; June 27.

Linde, Hilding, Kalmar, Sweden. Device for collecting refuse. 2,163,844; June 27.

Lindell, Oliver, Shawnee, Okla. Electric motor. 2,164,250; June 27.

Lindgren, Alexus C., Chicago, Ill., assignor to International Harvester Company. Tilling implement. 2,164,214; June 27.

Line Material Company. (See Mittelstadt, Walter E., assignor.)

Link-Belt Company. (See Ekbom, H. N., and Korensky, assignors.)

Link-Belt Company. (See Sayers, William W., assignor.)

Lintern Corporation, The. (See Lintern, John B., assignor.)

Lintern, John B., assignor to The Lintern Corporation, Cleveland, Ohio. Sanding device for vehicles. 2,163,911; June 27.

Lintern, William A., assignor to The Lintern Corporation, Cleveland, Ohio. Sanding device for overhead cranes. 2,163,953; June 27.

Little, Charles H. (See Little, Charles H., assignor.)

Little, Charles H., assignor of one-tenth to C. H. Little, Cleveland Heights, Ohio. Drafting machine. 2,164,215; June 27.

Little, Charles H., assignor of one-tenth to C. H. Little, Cleveland Heights, Ohio. Drafting machine. 2,164,216; June 27.

Little, Charles H., assignor of one-tenth to C. H. Little, Cleveland Heights, Ohio. Drafting machine. 2,164,217; June 27.

Little, Charles H., assignor of one-tenth to C. H. Little, Cleveland Heights, Ohio. Drafting machine. 2,164,218; June 27.

Littlehales, Hazel R., Seattle, Wash. Antiseepage breast device. 2,163,792; June 27.

Llewellyn, Frederick B., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High Frequency oscillator. 2,163,756; June 27.

Lockett, Ralph G., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controlling device. 2,164,037; June 27.

Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Conditioning the air in an enclosure. 2,163,692; June 27.

Logan, John O., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Production of chlorine dioxide. 2,163,793; June 27.

London, Bernard, New York, N. Y. Building construction. 2,164,137; June 27.

London, Bernard, New York, N. Y. Building construction. 2,164,138; June 27.

Lowe, Edmund W., assignor to The Edwal Laboratories, Inc., Chicago, Ill. Photographic developer. 2,164,280; June 27.

Lowry, Clyde D., assignor to Libby-Owens-Ford Glass Company, Toledo, Ohio. Sash or store front construction. 2,163,845; June 27.

Lucas, John A., assignor to Prime Manufacturing Company, Milwaukee, Wis. Electric fence. 2,163,954; June 27.

Luteraan, Philip, Bagnolet, France. Optical balance. 2,164,139; June 27.

Lyon, George A., Allenhurst, N. J. Vehicle accessory. 2,163,608; June 27.

Maas, A. R., Chemical Co. (See Bowman, Frederic C., assignor.)

MacClatchie, John W., Los Angeles, G. D. Johnson, Compton, and C. A. Thies, Huntington Park, assignors to MacClatchie Manufacturing Company of California, Compton, Calif. Liner construction. 2,163,885; June 27.

MacClatchie Manufacturing Company of California. (See MacClatchie, J. W., Johnson, and Thies, assignors.)

Mac Dee Company. (See McDonald, Herman M., assignor.)

Macdonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Plastic polymerized chloropene adhesive compositions. 2,163,609; June 27.

Macdonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Adhesive compositions. 2,163,610; June 27.

Macdonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Liquid adhesive composition. 2,163,611; June 27.

Macdonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Preparing an adhesive. 2,163,612; June 27.

Mack, William J., Buffalo, N. Y. Paring knife. 2,164,117; June 27.

Maclean, Robert S., and C. W. Pollard, assignors to Mastic Asphalt Corporation, Michigan City, Ind. Apparatus for weatherproofing composition board. 2,163,757; June 27.

Madore, Arthur H., Los Angeles, Calif. Hair dressing comb. 2,164,073; June 27.

Magnesium Development Corporation. (See Meyer, Oskar, assignor.)

Magnesium Development Corporation. (See Wienert, Fritz, assignor.)

Maha, Otto J. (See Peterson, V. W., and Maha.)

Mahan, Joseph R., Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa. Lubricating system. 2,164,294; June 27.

Mallory, P. R., & Co. (See Hensel, F. R., and Larsen, assignors.)

Mallory, P. R., & Co. (See Ware, Paul, assignor.)

Maltner, Heinrich, assignor, by mesne assignments, to Heinrich Maltner Kom. Ges., Offenbach-on-the-Main, Germany. Pocket lighter. 2,164,178; June 27.

Maltner, Heinrich, Kom. Ges. (See Maltner, Heinrich, assignor.)

Mandell, Maxwell, and B. Schwartz, New York, N. Y. Adjustable picture frame. 2,164,299; June 27.

Mannerberg, Edward G. (See Githens, O. W., Norden, and Mannerberg.)

Manofsky, John J., Warren, Ohio, assignor to National Gypsum Company, Buffalo, N. Y. Corner bead. 2,163,613; June 27.

Mansell, Irving V., Bridgeport, Conn. Luminous tube sign. 2,163,614; June 27.

Marcham, Arnold J., and N. Reynolds, Carlyle, Ill., assignors of ten percent to B. O. Zillman, St. Louis, Mo. Making paper from wheat, oat, or rye straw. 2,164,192; June 27.

Margles, Samuel G., Brooklyn, assignor to Otis Elevator Company, New York, N. Y. Moving stairway. 2,163,693; June 27.

Mariner, Hollis C., Pittsburgh, Pa. Stirring device and tool. 2,163,758; June 27.

Maris, James C., Glenolden, Pa. Locomotive steam pipe connection and support. 2,163,886; June 27.

Maris, James C., Glenolden, Pa. Locomotive truck. 2,163,887; June 27.

Marsh, Donald V., Lexington, Ill. Radio cabinet, shelf, and light. 2,163,615; June 27.

Martin-Parry Corporation. (See Small, Frederick M., assignor.)

Masin, Joseph, New York, N. Y. Percolator. 2,164,158; June 27.

Mastic Asphalt Corporation. (See Maclean, R. S., and Pollard, assignors.)

Mather Spring Company, The. (See Hendrickson, Niels E., assignor.)

Mathieson Alkali Works, Inc. (See Logan, John O., assignor.)

Matthews, George, and H. E. Churchill, assignors to The Studebaker Corporation, South Bend, Ind. Frame. 2,163,694; June 27.

Maycock, Russel L. (See Millar, R. W., and Maycock.)

McAdams, Harry, assignor to Nolde and Horst Company, Reading, Pa. Knitting machine. 2,164,118; June 27.

McAdams, Harry, assignor to Nolde and Horst Company, Reading, Pa. Knitting machine. 2,164,119; June 27.

McCandless, Lyon, Beaver Falls, assignor of forty-five percent to C. H. Beegle and ten percent to J. A. Elliott, Beaver County, Pa. Piston meter. 2,163,794; June 27.

McCann, Gertrude L., San Francisco, Calif. Article container. 2,163,759; June 27.

McCleary, Louis F., and H. L. Hammond, Twin Falls, Idaho. Separator deck. 2,163,734; June 27.

McConnell, Robert G., assignor of one-third to W. D. McConnell, and one-third to F. W. Neuner, Springfield, Ill. House number sign. 2,163,695; June 27.

McConnell, William D., et al. (See McConnell, Robert G., assignor.)

McDonald, Eugene F., Jr., Chicago, Ill. Portable radio receiver. 2,164,251; June 27.

McDonald, Herman M., Evanston, Ill., assignor to Mac Dee Company. Lower undergarment. 2,164,281; June 27.

McFarlane, Maynard D., and E. H. Hansen, Hollywood, Calif. Facsimile transmission and reproduction. 2,164,038; June 27.

McGerry, James J., East Grand Rapids, assignor to Hygienic Arts Corporation, Muskegon, Mich. Dental massage appliance. 2,164,219; June 27.

McGihon, Leonard, San Leandro, Calif. Program indicator. 2,163,616; June 27.

McKane, A. H. (See Shea, Stephen P., assignor.)

McKittrick, Donald S., Oakland, assignor to Shell Development Company, San Francisco, Calif. Countercurrent contact apparatus. 2,164,193; June 27.

McWalters, Andrew, Minneapolis, Minn. Antipilferage device. 2,163,955; June 27.

Medenwald, Arthur L., assignor to E. B. Spencer and G. B. Morris, Los Angeles, Calif., co-partners doing business as Spencer & Morris. Suspending and moving a platform or the like. 2,164,128; June 27.

Mercier, Jean, Paris, France. Fluid-operated jack. 2,163,982; June 27.

Merck & Co. (See Rapp, B., and Russow, assignors.)

Merck & Co. Inc. (See Engels, W. H., and Stein, assignors.)

Merck & Co. Inc. (See Walti, Alphonse, assignor.)

Mergenthaler Linotype Company. (See Albrecht, C. A., and Brandenburg, assignors.)

Mergenthaler Linotype Company. (See Ankarstran, William B., assignor.)

Mergenthaler Linotype Company. (See Petersen, William L., assignor.)

Mergenthaler Linotype Company. (See Quadt, John W., assignor.)

Merrails, Charles N., Los Angeles, Calif. Float. 2,163,795; June 27.

Merrigan, Peter A., New York, N. Y. Shoulder ornament mounting means. 2,164,252; June 27.

Meyer, Oskar, Bitterfeld, Germany, assignor, by mesne assignments, to Magnesium Development Corporation. Recovery of magnesium. 2,163,796; June 27.

Meyer, William, East Orange, and H. C. Krone, Weehawken, assignors to A. W Wheaton Brass Works, Inc., Newark, N. J. Detachable valve cage for tank emergency valves. 2,164,039; June 27.

Millar, Russell W., Berkeley, and R. L. Maycock, assignors to Shell Development Company, San Francisco, Calif. Purification and separation of gaseous mixtures. 2,164,194; June 27.

Miller, Charles, deceased, Long Island City, N. Y.; I. G. Miller, executrix, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making cemented shoes. 2,163,696; June 27.

Miller, Ida G., executrix. (See Miller, Charles.)

Millmine, Herbert W., Houston, Tex. Pump rod protecting assembly. 2,164,159; June 27.

Miskovsky, Anton. (See Zimic, M., and Miskovsky.)

Mitchell, Harold S., assignor to Industrial Patents Corporation, Chicago, Ill. Treatment of oleo oil. 2,163,912; June 27.

Mittelstadt, Walter E., Racine, assignor to Line Material Company, South Milwaukee, Wis. Lightning arrester and method of assemblying. 2,163,697; June 27.

Mochizuki, Gengo, Shiba-ku, Tokyo, assignor of one-half to M. Konishi, Saitama-Ken, Japan. Converting natural rubber or the like quickly into rubber hydrochloride. 2,164,140; June 27.

Moeller, August, Frankfort-on-the-Main-Griesheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing alkyl xanthic disulphides. 2,163,956; June 27.

Moessinger, Albert, Zurich, assignor to Tefag Textil-Finanz A. G., Winterthur, Switzerland. Thread transfer apparatus. 2,163,760; June 27.

Mohawk Carpet Mills, Inc. (See Shuttleworth, Howard L., assignor.)

Molins Machine Company Limited. (See Chalmers, John W., assignor.)

Money, Roland H., assignor to The Crosley Corporation, Cincinnati, Ohio. Evaporator control means. 2,163,698; June 27.

Monroe Calculating Machine Company. (See Britten, Edwin F., Jr., assignor.)

Monsanto Chemical Company. (See Thomas, Charles A., assignor.)

Moore, Abram J., Melrose, Mass., assignor to General Electric Company. Telemetering torque amplifier. 2,164,179; June 27.

Moore, Frank B. (See Ginder, William H., assignor.)

Moore, Hugh K., York Harbor, Maine, assignor to Brown Company, Berlin, N. H. Causticization of soluble sulphides. 2,164,141; June 27.

Moore, Hugh K., York Harbor, Maine, assignor to Brown Company, Berlin, N. H. Filtering finely divided solids from fluid suspension. 2,164,142; June 27.

Moore, Thomas F., Morris Plains, N. J. Well point. 2,164,253; June 27.

Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co., Inc. Combined attaching eye and pin stem joint or safety catch. 2,164,018; June 27.

Morris, George B., et al. (See Medenwald, Arthur L., assignor.)

Morris, Nathan, assignor to American Instrument Company, Silver Spring, Md. Thermostatic switch for scientific baths. 2,164,282; June 27.

Morton, Avery A., Watertown, Mass., and I. Hechenbleikner, Charlotte, N. C. Preparation of organosodium compounds. 2,163,846; June 27.
Moses, Amaziah J., and E. C. Chapman, Lookout Mountain, Tenn., assignors, by mesne assignments, to Combustion Engineering Company, Inc. Protective liner for drums. 2,164,074; June 27.
Motor Wheel Corporation. (See Hunt, George H., assignor.)
Motor Wheel Corporation. (See Tower, Elmer V. J., assignor.)
Mott, Chester, Evanston, assignor to National Cylinder Gas Company, Chicago, Ill. Prevention of explosions and backfire in torches. 2,164,295; June 27.
Mounting & Finishing Co. Inc., The. (See Fortunato, Vincent, assignor.)
Mow, Harold G., Buffalo, assignor to National Aniline and Chemical Company, Inc., New York, N. Y. Production of aromatic amines. 2,163,617; June 27.
Mucher, John J., Brooklyn, N. Y. Electrical resistor. 2,163,797; June 27.
Mucher, John J., Brooklyn, N. Y. Method of molding. 2,163,798; June 27.
Muller, Alfred D., Beverly, N. J. Bobbin. 2,163,618; June 27.
Muller, Charles A. (See Sporn, P., and Muller.)
Müller, Willy, Munich, Germany. Electrically driven vehicle jack. 2,163,735; June 27.
Mulvaney, Edward L., assignor of one-eighth to J. E. Phemister, one-eighth to M. C. Phemister, and one-half to G. D. Curtis, Butte, Mont. Ledger plate anvil. 2,164,283; June 27.
Munters, Carl G., assignor to Aktiebolaget Termisk Isolation, Stockholm, Sweden. Insulation. 2,164,143; June 27.
Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Container. 2,163,619; June 27.
Murrin, Gahlbeth H., assignor to A. Baumgarten, Pasadena, Calif. Door latch. 2,163,957; June 27.
Mussey, William H., assignor to Pullman-Standard Car Manufacturing Co., Chicago, Ill. Cushioning mechanism. 2,164,160; June 27.
Myers, Philip B., Scarsdale, N. Y., assignor to Sardik Incorporated, Jersey City, N. J. Preparing pectin. 2,163,620; June 27.
Myers, Philip B., Scarsdale, N. Y., assignor to Sardik Incorporated, Jersey City, N. J. Preparing pectin. 2,163,621; June 27.
N. V. Philips' Gloeilampenfabrieken. (See Boer, A. G., van Niekerk, Reerink, and van Wijk, assignors.)
Naamlooze Vennootschap Industrieele Mattschappij Voorheen Noury & Van Der Lande. (See van der Lande, Johannes A. L., assignor.)
Naamlooze Vennootschap: Oliefabrieken "Het Hart" en "De Zwaan" voorheen Adriaan Honig. (See Honig, Adriaan N., assignor.)
Nash, William T., Appomattox, Va. Plow. 2,164,220; June 27.
National Acme Company, The. (See Hogg, William J., assignor.)
National Aniline and Chemical Company. (See Mow, Harold G., assignor.)
National Blank Book Company. (See Schade, Frank S., assignor.)
National Carbon Company et al. (See Dorcas, M. J., Supplee and Remesch, assignors.)
National Cylinder Gas Company. (See Mott, Chester, assignor.)
National Folding Box Company. (See Ringler, William A., assignor.)
National Gypsum Company. (See Manofsky, John J., assignor.)
National Supply Company, The. (See Durrell, E. L., and Archer, assignors.)
National Supply Company, The. (See Mahn, Joseph R., assignor.)
Nation-Wide Manufacturing Corporation. (See Jones, Frederick McK., assignor.)
Neal, Younger. (See Carr, R. H., Saxon, Hebard, and Neal.)
Neely, George L., and F. W. Kavanagh, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded lubricating oil. 2,163,622; June 27.
Nees, Alpheus R. (See Brown, R. J., Nees, and Carney.)
Neidich, Samuel A., Ventnor City, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Reduplicative sheet. 2,163,958; June 27.
Nekolny, Kurt, assignor of two-thirds to M. Lajta, Budapest, Hungary. Device for the indication of radio transmissions. 2,164,161; June 27.
Nelles, Russell E., South Orange, N. J., assignor to The Union Manufacturing Company, New Britain, Conn. Monorail. 2,163,888; June 27.
Nenner, Fred W., et al. (See McConnell, Robert G., assignor.)
Nevin, Harry W., assignor to Industrial Patents Corporation, Chicago, Ill. Refrigeration system. 2,163,799; June 27.
Nevin, Harry W., assignor to Industrial Patents Corporation, Chicago, Ill. Valve. 2,163,800; June 27.
Newell, Robert E., assignor to Robertshaw Thermostat Company, Youngwood, Pa. Thermostat control. 2,163,801; June 27.
News Projection Corporation. (See Anderson, Eric J., assignor.)
Newton, Emmet S., et al. (See Higgins, I. W., and Pickett, assignors.)
Niagara Blower Company. (See Deverall, Charles N., assignor.)
Nickelsen, John A., Clinton, Iowa. Fly swatter blade. 2,163,761; June 27.
Nilson, Harold, assignor of one-fifth to J. A. Edeby, Wayzata, and two-fifths to E. Berglund, Minneapolis, Minn. Lifting jack. 2,163,959; June 27.
Nineteen Hundred Corporation. (See Keil, G. B., assignor.)
Niven, Francis J. (See Podd, E. A., and Niven.)
Noack, Walter G., Baden, and C. Seippel, Ennetbaden, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Heating plant. 2,163,762; June 27.
Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
Nolde and Horst Company. (See McAdams, Harry, assignor.)
Norden, Jesse. (See Githens, O. W., Norden, and Mannerberg.)
Nugent, Albert E. (See Thomes, F. E., and Nugent.)
Oakley, Robert W., Toronto, Ontario, Canada. Plant-setting machine. 2,163,802; June 27.
Oberhoffken, Alexander. (See Strawn, M. L. and Oberhoffken.)
Offermanus, Fritz, Muskau, Oberlausitz, Germany. Decomposition of raw cellulose. 2,164,040; June 27.
Oliver, Edd C., Adrian, Mich. Type bed and holder. 2,164,162; June 27.
Olmstead, Wilbur E., assignor to W. E. Hatheway, Bridgeport, Conn. Garment clasp. 2,163,623; June 27.
Olson, Alex H. (See Droll, J. W., and Olson.)
Olson, Oscar H., Julesburg, Colo. Weeding machine. 2,164,254; June 27.
Ona, Masahisa, Ogikubo, Suginami-ku, Tokyo, Japan. Reproducing cells for oxide film arresters. 2,163,983; June 27.
Orris, John P., Kansas City, Mo. Piston and connecting rod construction. 2,163,803; June 27.
O'Russa, Lorence, Princeville, Ill., assignor to James R. Kearney Corporation, St. Louis, Mo. Electrical connector. 2,164,075; June 27.
Osgood, John L., Buffalo, N. Y. Preventing theft of automobiles. 2,164,076; June 27.
Ostler, Ernest S., Park Ridge, Ill., assignor, by mesne assignments, to General Time Instruments Corporation, New York, N. Y. Electromagnetic construction. 2,164,041; June 27.
Otis Elevator Company. (See Margles, Samuel G., assignor.)
Otterbacher, Theodore J., Zion, Ill., assignor to Corn Products Refining Company, New York, N. Y. Food composition. 2,163,913; June 27.
Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass handling apparatus. 2,164,077; June 27.
Owen, William L., Baton Rouge, La. Fermenting molasses and like mashes. 2,164,255; June 27.
Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)
Pacific Manifolding Book Company. (See Stevens, Harry, assignor.)
Page Engineering Company. (See Page, John W., assignor.)
Page, John W., assignor to Page Engineering Company, Chicago, Ill. Walking mechanism. 2,164,120; June 27.
Pangborn Corporation. (See Rosenberger, William A., assignor.)
Parker, Claude E., Chicago, Ill., assignor to Gas Products Corporation, Stove. 2,164,078; June 27.
Parker, Claude E., Chicago, Ill., assignor to Gas Products Corporation, Gaseous fuel stove. 2,164,079; June 27.
Parker, George N., Shreveport, La. Cathead. 2,163,736; June 27.
Parks, Joseph A., Jr. (See Lasher, L. L., Chesley, and Parks.)
Passler, Hermann, assignor of one-half to A. Brunnbauer, Junior, Vienna, Austria. Separating the constituents of crude oil emulsions. 2,163,804; June 27.
Patent Sales, Inc. (See Flint, Hyland C., assignor.)
Paul, George F., Youngstown, Ohio. Method and apparatus for rolling hot strip material. 2,163,699; June 27.
Payer, John M., New York, N. Y. Road strip. 2,163,960; June 27.
Pearson, Victor E., Buffalo, N. Y. Fishing reel. 2,163,914; June 27.
Peerless Roll Leaf Co. (See Grupe, William F., assignor.)
Pendell, Lewis E., Almira, Wash. Subsoiler. 2,163,805; June 27.
Pendry, Rex M., Hartford, Iowa. Mouse trap. 2,163,961; June 27.
Permutit Company, The. (See Liebknecht, Otto, assignor.)
Perrey, Marcel A. L., Herserange, assignor to Societe Anonyme des Hauts Fourneaux de la Chiers, Longwy (Meurthe et Moselle), France. Impact indicator. 2,163,847; June 27.
Perry, Joseph D., Harrisburg, Pa. Material treating and handling apparatus. 2,163,977; June 27.

Perry, William R., assignor to Reeves Pulley Company, Columbus, Ind. Flow-rate-responsive control means. 2,164,019; June 27.
Pescador, Héctor, Mexico, D. F., Mexico. Electric hearing apparatus for the deaf. 2,164,121; June 27.
Peters, Melville F., Beltsville, Md. Radio shielding means. 2,163,624; June 27.
Peters, William A., Jr., Seattle, Wash., assignor to E. B Badger & Sons Co., Boston, Mass. Fractionating plate 2,164,080; June 27.
Petersen, William L., Springfield, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine. 2,163,848; June 27.
Peterson, Arvid L., Los Angeles, Calif., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Blowpipe. 2,164,256; June 27.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Electrical wave filter. 2,163,625; June 27.
Peterson, Johann G., West Hartford, Conn. Electric switch. 2,163,626; June 27.
Peterson, Victor W., and O. J. Maha, assignors to Hannifin Manufacturing Co., Chicago, Ill. Press and the like. 2,163,627; June 27.
Petkovic, Valentin A., Berlin, Germany. Preparation of a rust-preventing coating on metallic objects. 2,163,984; June 27.
Pew, Will D. (See Cartun, P. O., and Pew.)
Pfister, Lester J., El Paso, Ill. Agricultural machine. 2,163,849; June 27.
Pfister, Lester J., El Paso, Ill. Agricultural machine. 2,163,850; June 27.
Pfister, Lester J., El Paso, Ill. Agricultural machine. 2,163,851; June 27.
Phemister, John E., et al. (See Mulvaney, Edward L., assignor.)
Phemister, Mamie C., et al. (See Mulvaney, Edward L., assignor.)
Philips Petroleum Company. (See Snow, Robert D., assignor.)
Phillips, Harry A., Chicago, Ill. Refrigeration control system. 2,164,081; June 27.
Pickett, Herbert L. (See Higgins, I. W., and Pickett.)
Pierce, Albert R., Jr., South Dartmouth, Mass. Cigarette extinguisher. 2,164,082; June 27.
Pierce, Lee D., Fulton, N. Y. Apparatus for folding over ends of paper tubes. 2,163,806; June 27.
Piggott, Henry A., and F. S. Statham, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Basic reaction products. 2,163,807; June 27.
Pilkey, Orrin H., Chicago, Ill., assignor to The Guardite Corporation. Moistening grain. 2,163,628; June 27.
Pings, George H. (See Crowther, G. R. and Goodman, assignors.)
Pintsch, Julius, Kommanditgesellschaft. (See Düllenbach, W., and Allerding, assignors.)
Piper, Walter S., Sheboygan, Wis. Rocking chair. 2,164,163; June 27.
Pithoud, Myron A., Long Beach, Calif. Setting tower footings. 2,163,808; June 27.
Pittman, Ralph A., Eldorado, Ark., and J. A. Gardner, Memphis, Tenn. Dental articulator. 2,164,144; June 27.
Pittsburgh Annealing Box Company. (See Deahl, Kenneth J., assignor.)
Pittsburgh Plate Glass Company. (See Bertrand, Pierre, assignor.)
Pittsburgh Plate Glass Company. (See Limbers, Don R., assignor.)
Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
Ploke, Martin, and W. Lang, Dresden, Germany. Secondary electron multiplier. 2,163,700; June 27.
Pluckrose, Reginald G., Woodford Green, England. Wool winder. 2,164,145; June 27.
Podd, Ernest A., and F. J. Niven, Houston, Tex. Channel chair. 2,163,889; June 27.
Pollard, Charles W. (See Maclean, R. S., and Pollard.)
Pomernacki, Valerius, Chicago, Ill. Automobile foot pedal safety control. 2,163,962; June 27.
Pond, Kenneth H., Longmeadow, assignor to Bemis and Call Company, Springfield, Mass. Lock construction. 2,163,852; June 27.
Pond, Kenneth H., Longmeadow, assignor to Bemis and Call Company, Springfield, Mass. Lock construction. 2,163,853; June 27.
Pool, Joseph H., Henlow Camp, England, assignor to Irving Air Chute of Great Britain Limited, Letchworth Herts, England. Parachute. 2,164,122; June 27.
Poppe, George W., assignor to Equitable Paper Bag Co. Inc., Brooklyn, N. Y. Carry bag. 2,163,963; June 27.
Porter, Charlie. (See Lee, Mack C., assignor.)
Power Patents Company. (See Borden, Edmund G., assignor.)
Power Patents Company. (See Doherty, H. L., assignor.)
Prehoda, Coleman, Cleveland, Ohio. Core making machine. 2,163,964; June 27.
Prescott, Harold R. (See Woodyard, K. C., Putnam, and Prescott.)
Price, Earl R., assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,164,001; June 27.
Price, Howard W., assignor, by mesne assignments, to J. M. Huber Corporation, Borger, Tex. Carbon black and treating same. 2,164,164; June 27.
Prime Manufacturing Company. (See Lucas, John A., assignor.)
Prinsen, Frederik B. A., Scheveningen, Netherlands. Automatic diaphragm working by means of a photo-electric cell, a light-sensitive element, or the like. 2,163,737; June 27.
Pullman-Standard Car Manufacturing Co. (See Mussey, William H., assignor.)
Purdue Research Foundation. (See Hass, H. B., and Vanderbilt, assignors.)
Pure Oil Company, The. (See Carr, R. H., Saxon, Hebard, and Neal, assignors.)
Putnam, Clifford A. (See Woodyard, K. C., Putnam and Prescott.)
Quadt, John W., Queens Village, N. Y., assignor to Mergenthaler Linotype Company. Type casting matrix. 2,163,854; June 27.
Radio Corporation of America. (See Bedford, Alda V., assignor.)
Radio Corporation of America. (See Conklin, James W., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Ditcham, William T., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Railroad Accessories Corporation. (See Lavarack, F. C., and Schlesinger, assignors.)
Railway and Industrial Engineering Company. (See de Bellis, Aldo M., assignor.)
Ralston, Anderson W., and W. M. Selby, assignors to Armour and Company, Chicago, Ill. Preparing nitrogen-containing compounds. 2,164,284; June 27.
Ranco Incorporated. (See Raney, E. C., and Hoover, assignors.)
Raney, Estel C., and A. M. Hoover, assignors to Ranco Incorporated, Columbus, Ohio. Control apparatus. 2,164,221; June 27.
Rapp, Bernhard, and F. K. Russow, Darmstadt, Germany, assignors to Merck & Co., Inc., Rahway, N. J. Tablet. 2,163,629; June 27.
Rapp, Charles F., Churubusco, Ind. Bull restraining halter. 2,163,855; June 27.
Rauen, John B., Los Angeles, Calif. Center road-dividing guard. 2,163,809; June 27.
Ray, Harry S., Los Angeles, Calif. Advertising device. 2,163,763; June 27.
Raybould Coupling Company. (See Raybould, Frank J., assignor.)
Raybould, Frank J., Erie, assignor to Raybould Coupling Company, Meadville, Pa. Coupling. 2,163,810; June 27.
Recknagel, Alfred. (See Henneberg, W., and Recknagel.)
Reconstruction Finance Corporation. (See Schneider, Rudolph H., assignor.)
Reconstruction Finance Corporation. (See Smith, Ed S., jr., assignor.)
Reed, Forrest C., Kansas City, Mo. Producing carbon black. 2,163,630; June 27.
Reed-Prentice Corporation. (See Bird, Edward S., assignor.)
Reerink, Engbert H. (See Boer, A. G., van Niekerk, Reerink and van Wijk.)
Reeves Pulley Company. (See Perry, William R., assignor.)
Reeves Steel and Manufacturing Company. (See Hunker, Martin L., assignor.)
Reid, Elmer A., Morrisville, Pa. Humidifier. 2,164,083; June 27.
Reif, Allan F. (See Reif, Charles A., and A. F.)
Reif, Charles A., and A. F. Reif, assignors to Reif-Rexoil, Inc., Buffalo, N. Y. Oil burner. 2,163,915; June 27.
Reif-Rexoil, Inc. (See Reif, Charles A., and A. F., assignors.)
Remesch, Frank, jr. (See Dorcas, M. J., Supplee, and Remesch, jr.)
Renard, Adolphe H. E. (See Zuckermann, A., and Renard.)
Reuss, Werner, Dusseldorf-Benrath, and F. H. von und zu Guttenberg, Dusseldorf, assignors to Henkel & Cie G. m. b. H., Dusseldorf-Holthausen, Germany. Cleaning and bleaching composition. 2,164,146; June 27.
Reynolds, Norris. (See Marcham, A. J., and Reynolds.)
Reynolds, Reginald J. W. (See Lawrie, L. G., Reynolds, and Walker.)
Richtmyer, Arthur R., Larchmont, N. Y., assignor to F. J. Bayliss, Walsoll, Straffordshire, England. Extensible fastener. 2,163,811; June 27.
Ried, Robert C., West Conshohocken, Pa., assignor to Separation Process Company. Flotation process. 2,163,701; June 27.
Ried, Robert C., West Conshohocken, Pa., assignor to Separation Process Company. Flotation process. 2,163,702; June 27.
Rietfort, John G., Waseca, Minn. Egg transfer device. 2,164,222; June 27.
Rinelli, William R. (See Walker, W. O., and Rinelli.)

Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Container. 2,163,703; June 27.
Rio, Clarence, Tyler, Pa. Fastener for shoelaces. 2,164,123; June 27.
Ritz-Woller, Oliver C., Chicago, Ill. Electric iron and stand therefor. 2,163,704; June 27.
Riza, Tom H., Cleburne, Tex. Sweet-feed mixer. 2,164,257; June 27.
Roberts, Samuel J., Scranton, Pa. Desk cover. 2,163,985; June 27.
Robertshaw Thermostat Company. (See Newell, Robert E., assignor.)
Robertson, Hayes, Chicago, assignor to The Translode Joint Company, Chicago Heights, Ill. Road guard fence. 2,164,084; June 27.
Rockwell, Edward A., Chicago, Ill., assignor, by mesne, asisgnments, to General Auto Parts Corporation. Fluid pressure amplifying device. 2,163,764; June 27.
Rodgers, Karl F., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical condenser. 2,164,165; June 27.
Rodman, Clarence A., Detroit, Mich. Air conditioning. 2,164,223; June 27.
Rogoff, Julian. (See Dibner, B., and Rogoff.)
Rogoff, Julian, New York, N. Y., assignor to Burndy Engineering Co., Inc. Ground-wire clamp. 2,164,021; June 27.
Röhm & Haas Company. (See Covert, Lloyd W., assignor.)
Romig, Gerald C., Elkins Park, assignor to American Chemical Paint Company, Ambler, Pa. Producing phosphate coatings on surfaces of iron, zinc, or alloys thereof. 2,164,042; June 27.
Rosenberger, William A., assignor to Pangborn Corporation, Hagerstown, Md. Abrading apparatus. 2,163,631; June 27.
Rosenstein, Ludwig. (See Hund, W. J., and Rosenstein.)
Ross, Verel C., Seattle, Wash. Closure for envelopes. 2,163,916; June 27.
Rossen, Harris, St. Louis, Mo. Self-propelled electric iron. 2,164,085; June 27.
Rössler, Theodor, Neustadt (Orla), Germany. Wire netting machine. 2,164,043; June 27.
Rowe, Donald H. (See Hund, W. J., and Rowe.)
Rowe, Raymond N., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric connector. 2,164,022; June 27.
Rowland, Arthur L. (See Holmes, M. B., and Rowland.)
Ruggles, Albert C. (See Von Bramer, H., and Ruggles.)
Rush, Ward G. (See Coviello, Anthony R., assignor.)
Russow, Friedrich K. (See Rapp, B., and Russow.)
Rust, Mack D., Memphis, Tenn., assignor of one-half to D. C. Hoffman, Philadelphia, Pa., and one-half to A. B. Bedford, Collingswood, N. J. Variable speed transmission. 2,164,086; June 27.
Rutan, Virginia K., et al. (See Kiesel, William F., jr., assignor.)
Ryan, John C., assignor of one-third to R. Bowlby and One-third to C. B. Lewis, Toronto, Ontario, Canada. Nonskid device for automobile tires. 2,163,890; June 27.
S. A. Recherches Etudes Applications Techniques, R. E. A. T. (See Lasserre, Jean, assignor.)
Saha, Ludwig, Secane, assignor to Saha Manufacturing Company, Inc., Philadelphia, Pa. Sub-top for refrigerating cabinets. 2,164,023; June 27.
Saha Manufacturing Company. (See Saha, Ludwig, assignor.)
Sainich, Martin, Livingston, Mont. Locomotive and car wheel tire shaping tool. 2,163,738; June 27.
Saler, Jules N., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ice tray. 2,163,705; June 27.
Salt, Lloyd B., Chestnut Hill, assignor to B. F. Sturtevant Company, Boston, Mass. Vacuum cleaner. 2,164,002; June 27.
Sanders, Lorne, Redlands, assignor to Killefer Manufacturing Corporation, Los Angles, Calif. Offset disk harrow. 2,163,917; June 27.
Sanford, Roy S. (See Houston, G. F., and Sanford.)
Sanford, Roy S., New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,163,891; June 27.
Sanford, Roy S., New York, N. Y., and V. W. Kliesrath, South Bend, Ind., assignors to Bendix Products Corporation, South Bend, Ind. Steering mechanism. 2,163,892; June 27.
Sardik Incorporated. (See Myers, Philip B., assignor.)
Satterlee, Howard A., Needham, assignor to Submarine Signal Company, Boston, Mass. Apparatus for controlling rotation. 2,163,632; June 27.
Sauzedde, Claude, assignor to Detroit Hydostatic Brake Corporation, Detroit, Mich. Hydraulic brake system. 2,163,633; June 27.
Saxon, Worth M. (See Carr, R. H., Saxon, Hebard, and Neal.)
Sayers, William W., assignor to Link-Belt Company, Chicago, Ill. Air control for blowers for automatic stokers. 2,163,706; June 27.
Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Loose leaf ring binder. 2,163,856; June 27.
Schaefer, Max, Bloomfield, N. J., assignor to Eagle Pencil Company, New York, N. Y. Mechanical lead pencil. 2,164,166; June 27.
Schaffstein, Goswin, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Wide band modulation. 2,163,707; June 27.
Schairer, George S., assignor to Bendix Products Corporation, South Bend, Ind. Autogiro rotor hub. 2,163,893; June 27.
Scheelhaase, Hermann, Fallersleben, Germany. Building subterranean structures. 2,164,003; June 27.
Schimkus, Kurt E., assignor to H. C. Chereton, Detroit, Mich. Controlling electric circuits. 2,163,709; June 27.
Schimkus, Kurt E., Detroit, Mich., and W. Dumke, Chicago, Ill., assignors, by mesne assignments, to H. C. Chereton, Detroit, Mich. Controlling electric circuits. 2,163,708; June 27.
Schlesinger, Benjamin. (See Lavarack, F. C., and Schlesinger.)
Schlumpf, Jakob, Hollain, Hainaut, Belgium, assignor to Atlantic Rayon Corporation. Process and apparatus for treating textile materials. 2,163,634; June 27.
Schneider, Frank H., Royersford, Pa. Range. 2,164,147; June 27.
Schneider, Kurt, and H. Schunck, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Electric arc furnace. 2,164,024; June 27.
Schneider, Rudolph H., assignor, by mesne assignments, to Reconstruction Finance Corporation, St. Louis, Mo. Two-cycle engine. 2,164,167; June 27.
Schneider, Wilhelm. (See Wilmanns, G., Schneider, and Frohlich.)
Schockling, Leo J., McKeesport, Pa. Holder for articles. 2,163,710; June 27.
Schramm, Carl, North Coventry, assignor to The Smyth Manufacturing Company, Hartford, Conn. Treating unbound books. 2,163,812; June 27.
Schultz, Frank, Martinsville, N. J. Sanitary continuous-flow article holder. 2,164,258; June 27.
Schunck, Herman. (See Schneider, K., and Schunck.)
Schutz, Harold R., Toledo, Ohio, assignor to Libbey Glass Company. Tumbler-handling apparatus. 2,164,285; June 27.
Schwartz, Benjamin. (See Mandell, M., and Schwartz.)
Schwartz, Erich, Berlin-Zehlendorf, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Image screen for Braun tubes. 2,163,918; June 27.
Schweigert, George D., Denver, Colo. Fishhook file or carrier. 2,164,259; June 27.
Schweizer, Paul. (See Kleinberg, P. E., Schweizer and Wilks.)
Schwertfeger, Walter J., West Englewood, N. J., assignor to Keyes Fibre Company, Portland, Me. Packing. 2,164,025; June 27.
Scovill Manufacturing Company. (See Dews, Joseph W., assignor.)
Security Engineering Co. Inc. (See Armentrout, A. L., and Hall, assignors.)
Seeger, Edwin W., and G. C. Brown, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controlling system. 2,164,087; June 27.
Seidel, Clara, Rochester, N. Y. Hair curler. 2,163,894; June 27.
Seippel, Claude. (See Noack, W. G., and Seippel.)
Selby, William M. (See Ralston, A. W., and Selby.)
Selvig, John N., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,163,711; June 27.
Separation Process Company. (See Ried, Robert C., assignor.)
Servel, Inc. (See Thomas, Albert R., assignor.)
Servel, Inc. (See Ullstrand, H. M., and Thomas, assignors.)
Sexton Can Company Incorporated. (See Leighton, George A., assignor.)
Seymour, Lynn L., De Kalb, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Bottle capping apparatus. 2,164,026; June 27.
Shea, Stephen P., assignor of one-half to A. H. McKane, East St. Louis, Ill. Pipe hanger. 2,163,635; June 27.
Shearer, Walter V., West Springfield, assignor to The Beveridge-Marvellum Company, Holyoke, Mass. Coating machine. 2,163,712; June 27.
Shell Development Company. (See Evans, T. W., and Bullard, assignors.)
Shell Development Company. (See Groll, H. P. A., and Hearne, assignors.)
Shell Development Company. (See Hund, W. J., and Rosenstein, assignors.)
Shell Development Company. (See Hund, W. J., and Rowe, assignor.)
Shell Development Company. (See Klomp, Johan W., assignor.)
Shell Development Company. (See McMittrick, Donald S., assignor.)
Shell Development Company. (See Miller, R. W., and Maycock, assignors.)
Shepherd, Oliver B., Belfast, Northern Ireland. Shirt board. 2,164,088; June 27.
Shepherd, Thomas L., London, England. Rubber process. 2,163,986; June 27.

Sheridan, T. W., & C. B., Company. (See Kleinberg, P. E., Schweizer and Wilks, assignors.)
Shiflet, Herbert B., Morganton, N. C. Stocking tension device. 2,164,180; June 27.
Shoults, David R., Schenectady, N. Y., assignor to General Electric Company. Method of and apparatus for accelerating and synchronizing a synchronous machine. 2,164,181; June 27.
Shriver, John W., and F. S. Hoover, Wichita, Kans. Spring tightening means for window sash. 2,163,965; June 27.
Shumaker, John B., Des Moines, Iowa. Stabilizing potassium iodide. 2,164,089; June 27.
Shuttleworth, Howard L., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Pile fabric and making same. 2,164,090; June 27.
Sibley, Edward L., Bennington, Vt. Stapler. 2,164,260; June 27.
Siegel, David T., Chicago, Ill. Switch. 2,163,919; June 27.
Slater, Homer B., Pittsburgh, Pa., assignor to Koppers-Rheolaveur Company. Mineral sorting launder apparatus. 2,164,124; June 27.
Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter chain for mining machines. 2,164,091; June 27.
Small, Frederick M., assignor to Martin-Parry Corporation, York, Pa. Building wall construction. 2,164,261; June 27.
Smith, Edward C., Santa Barbara, Calif. Gem grinding machine. 2,163,987; June 27.
Smith, Ed S., Jr., St. Albans, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, Minneapolis, Minn. Brake. 2,164,300; June 27.
Smith, George W., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Preparing solid alkaline compounds. 2,164,092; June 27.
Smith, Gertrude L., Los Angeles, Calif. Combination vestee and scarf. 2,163,857; June 27.
Smith, Hiram P., Canton, Ill., assignor to International Harvester Company. Lifting means for tractor-mounted implements. 2,164,224; June 27.
Smyth Manufacturing Company, The. (See Schramm, Carl, assignor.)
Snow, Robert D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons. 2,163,858; June 27.
Snyder, Richard L., Glassboro, N. J., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Box element multiplier. 2,163,966; June 27.
Societe Anonyme des Hauts Fourneaux de la Chiers. (See Perrey, Marcel A. L., assignor.)
Société Anonyme Tissages de Soieries Reunis. (See Terrasse, Gustave J. J., assignor.)
Société à Responsibilité Limitée: Luminograph. (See Zuckermann, A., and Renard, assignors.)
Société Générale Metallurgique de Hoboken. (See Leemans, Joseph P., assignor.)
Societe Genevoise d'Instruments de Physique. (See Turrettini, Fernand, assignor.)
Socony-Vacuum Oil Company. (See Crandall, G. S., and James, assignors.)
Sokoloff, Sergey, Leningrad, Union of Soviet Socialist Republics. Indicating flaws in materials. 2,164,125; June 27.
Sonsthagen, Asbjorn, London, England. Apparatus for grinding material in a more or less viscous condition. 2,163,765; June 27.
Soss, Joseph, Roselle, N. J. Concealed hinge. 2,163,713; June 27.
Soubier, Leonard D., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Joining glass block sections. 2,164,093; June 27.
Spanagel, Edgar W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing linear condensation polyamides. 2,163,636; June 27.
Speer, Harry P., Council Bluffs, Iowa. Milk bottle receptacle. 2,163,739; June 27.
Spencer, Earl B., et al. (See Medenwald, Arthur L., assignor.)
Spencer, Lillian J., San Rafael, Calif. Sifter and mixer device. 2,163,766; June 27.
Spencer & Morris. (See Medenwald, Arthur L.)
Sporn, Philip, Brooklyn, and C. A. Muller, Tuckahoe, N. Y., assignors to General Electric Company. Protective system for electric power transmission lines. 2,164,182; June 27.
Squibb, E. R., & Sons. (See Christiansen, Walter G., assignor.)
Stacey, Cromwell, Port Angeles, Wash. Safety apparatus for motor vehicles. 2,163,988; June 27.
Standard Oil Company of California. (See Neely, G. L., and Kavanagh, assignors.)
Standlee, Alonzo, Handley, Tex., assignor to Industrial Patents Corporation, Chicago, Ill. Linking gauge. 2,163,920; June 27.
Staples, Dana R., Ridley Park, Del. Engine speed and reverse control. 2,163,895; June 27.
Statham, Francis S. (See Piggott, H. A., and Statham.)
Steel & Tubes, Inc. (See Black, William A., assignor.)
Stein, Gustav A. (See Engels, W. H. and Stein.)
Steiner, Hans, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Floating piston engine plant. 2,163,767; June 27.
Steinert, Johannes, Hanover, assignor to Dr. Ing. e. h. Eduard Dyckerhoff, Blumenau, near Wunstorf, Germany. Device for mixing fibrous material with binders, such as plaster, cement, magnesite, and the like. 2,164,044; June 27.
Stevens, Harry, Oakland, Calif., assignor, by mesne assignments, to Pacific Manifolding Book Company, Inc. Manifolding book. 2,163,714; June 27.
Stevens, Woodrow W., assignor of one-half to W. B. Stone, Paducah, Ky. Electrically operated dipper trip. 2,164,126; June 27.
Stickney, Burnham C., Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,163,921; June 27.
Stoewener, Fritz, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of metal hydroxides colloidally soluble in water. 2,163,922; June 27.
Stone, Albert L. (See Stone, Frederick and A. L.)
Stone, Frederick, Torrance, and A. L. Stone Palos Verdes Estates, assignors to Hydril Company, Los Angeles, Calif. Oil well packing head. 2,163,813; June 27.
Stone, Joseph C. R. (See Getchell, B. E., and Stone.)
Stone, William B. (See Stevens, Woodrow W., assignor.)
Strawn, Marion L., and A. Oberhoffken, assignors to The Ingersoll Milling Machine Company, Rockford, Ill. Cut-off machine. 2,163,967; June 27.
Struthers Wells-Titusville Corporation. (See How, Harlan W., assignor.)
Studebaker Corporation, The. (See Matthews, G., and Churchill, assignors.)
Stull, Faye P., Youngstown, Ohio. Method of and tool for shaping and ironing sheet metal. 2,163,715; June 27.
Sturtevant, B. F., Company. (See Salt, Lloyd B., assignor.)
Sturtz, Clarence, Oconomowoc, Wis. Fur stretching device. 2,163,989; June 27.
Stybr, Miles A., assignor to International Steel Wool Corporation, Springfield, Ohio. Metallic wool abrading ring. 2,164,286; June 27.
Submarine Signal Company. (See Satterlee, Howard A., assignor.)
Sugarman, Barney, assignor to Fort Smith Structural Steel Company, Fort Smith, Ark. Brake cylinder mounting for vehicles. 2,163,896; June 27.
Sulzer Frères, Société Anonyme. (See Steiner, Hans, assignor.)
Sumner, Frank. (See Sumner, George V., assignor.)
Sumner, George V., Columbia, S. C., assignor of one-half to F. Sumner, Montreal, Quebec, Canada. Oil press mat. 2,164,127; June 27.
Supplee, George C. (See Dorcas, M. J., Supplee, and Remesch.)
Swanson, Nels H., Chicago, Ill. Combined pocket flashlight and key case. 2,164,148; June 27.
Swarovski, Daniel, assignor to the firm D. Swarovski Glasfabrik und Tyrolit-Schleifmittel-Werke, Wattens, Tyrol, Austria. Manufacturing of jewelry set with stones. 2,163,814; June 27.
Swarovski, D., Glasfabrik und Tyrolit-Schleifmittel-Werke. (See Swarovski, Daniel, assignor.)
Sylvania Inustrial Corporation. (See Wallach, André, assignor.)
Tailleferre, Henri E. (See Courtois-Suffit, R. M. R., and Tailleferre.)
Taliman, Oscar F., assignor to James R. Kearney Corporation, St. Louis, Mo. Clamp. 2,164,094; June 27.
Tanner, Herbert G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,163,768; June 27.
Taylor, Cecil H., assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,163,897; June 27.
Teetor, Paul. (See Gundlach, H. R., and Teetor.)
Tefag Textil-Finanz A. G. (See Moessinger, Albert, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Berndt, Walter, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schaffstein, Goswin, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Radinger, Rudolf, assignor.)
Terrasse, Gustave J. J., Lyon, assignor to Société Anonyme Tissages de Soieries Reunis, Lyon, Rhone, France. Woven fabric. 2,163,769; June 27.
Terry, Robert H. (See Clements, F. O., Terry, and Henry.)
Texas Company, The. (See Kuhn, Wayne E., assignor.)
Textile Manufacturing Company. (See Clifford, George M., assignor.)
Thermoid Company. (See Hall, William H., Jr., assignor.)
Thies, Carl A. (See MacClatchie, J. W., Johnson, and Thies.)
Thomas, Albert R. (See Ullstrand, H. M., and Thomas.)
Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,163,815; June 27.
Thomas, Charles A., Dayton, Ohio, assignor, by mesne assignments, to Monsanto Chemical Company. Phenolic resin. 2,163,637; June 27.

Thomes, Frank E., South Portland, and A. E. Nugent, assignors to Industrial Development and Manufacturing Corporation, Portland, Maine. Air-pressure reducing and regulating device. 2,164,095; June 27.
Thompson, Orland. (See Edwards, W. K., and Thompson.)
Thompson, Russell G., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,163,968; June 27.
Tjaarda, John, Birmingham, assignor to Briggs Manufacturing Company, Detroit, Mich. Rear wheel suspension and engine mounting. 2,164,096; June 27.
Tjaarda, John, Birmingham, assignor to Briggs Manufacturing Company, Detroit, Mich. Automobile body. 2,164,097; June 27.
Tjaarda, John, Birmingham, assignor to Briggs Manufacturing Company, Detroit, Mich. Automobile body. 2,164,098; June 27.
Tower, Elmer V. J., assignor to Motor Wheel Corporation, Lansing, Mich. Clutch. 2,163,991; June 27.
Translode Joint Company, The. (See Robertson, Hayes, assignor.)
Tropic-Aire, Incorporated. (See Fink, Henry W., assignor.)
Trumbull Electric Manufacturing Company, The. (See Getchell, B. E., and Stone, assignors.)
Trumbull Electric Manufacturing Company, The. (See Rowe, Raymond N., assignor.)
Turner, Russell J., Butler, Pa., assignor to Belden Manufacturing Company, Chicago, Ill. Electric connector plug assembling machine. 2,163,716; June 27.
Turrettini, Fernand, Bellevue-Geneva, assignor to the firm Societe Genevoise d'Instruments de Physikue, Geneva, Switzerland. Machine-tool spindle. 2,164,129; June 27.
Ulistrand, Hugo M., and A. R. Thomas, Evansville, Ind., assignors to Servel, Inc., New York, N. Y. Refrigeration. 2,164,045; June 27.
Una Welding, Inc. (See Bereit, Herbert C., assignor.)
Underdorfel, Oscar H., Holyoke, Mass. Automobile lighting device. 2,164,149; June 27.
Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Underwood Elliott Fisher Company. (See Neidich, Samuel A., assignor.)
Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)
Underwood Elliott Fisher Company. (See Thompson, Russell G., assignor.)
Underwood, Howard C., New York, N. Y. Wearing apparel and making the same. 2,163,717; June 27.
Underwood, Howard C., Flushing, N. Y. Article of attire. 2,163,718; June 27.
Union Carbide and Carbon Corporation. (See Peterson, Arvid L., assignor.)
Union Carbide and Carbon Research Laboratories, Inc. (See Vaughn, Thomas H., assignor.)
Union Manufacturing Company, The. (See Nelles, Russell E., assignor.)
Union Oil Company of California. (See Jenkins, Vance N., assignor.)
Union Starch and Refining Company. (See Fetzer, Walter R., assignor.)
Union Steel Products Company. (See Bitney, Dewey H., assignor.)
Union Switch & Signal Company, The. (See Hines, Claude M., assignor.)
United Aircraft Corporation. (See Caldwell, Frank W., assignor.)
United-Carr Fastener Corporation. (See Jones, Walter I., assignor.)
United Shoe Machinery Corporation. (See Cangemi, Salvatore, assignor.)
United Shoe Machinery Corporation. (See Labrie, Anthony, assignor.)
United Shoe Machinery Corporation. (See Miller, Charles, assignor.)
Universal Camera Corporation. (See Githens, O. W., Norden, and Mannerberg, assignors.)
Universal Clay Products Company, The. (See Waterman, Fred W., jr., assignor.)
Universal Fountain Brush Company. (See Wright, Milton B., assignor.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Eissmann, Oswald E., assignor.)
University of Pennsylvania, Trustees of the. (See Flosdorf, Earl W., assignor.)
Usines de Melle. (See Guinot, Henri M., assignor.)
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Modulation. 2,163,719; June 27.
Vail, Daniel R., Wilmette, Ill., and C. G. Dauber, Oshkosh, Wis. Partition fabricating machine. 2,163,923; June 27.
Vanderbilt, Byron M. (See Hass, H. B., and Vanderbilt.)
Van der Lande, Johannes A. L., assignor to Naamlooze Vennootschap Industrieele Maatschappij Voorheen Noury & Van Der Lande, Deventer, Netherlands. Production of hydrogen peroxide. 2,163,898; June 27.
Van Liempt, Johannes A. M., and W. Elenbaas, Eindhoven, Netherlands, assignors to General Electric Company. Electric lamp. 2,164,183; June 27.
Van Niekerk, Johannes. (See Boer, A. G., van Niekerk, Reerink and van Wijk.)
Van Rijswijk, Willem, Baden, Switzerland. Impeller. 2,164,020; June 27.
Van Wijk, Aart. (See Boer, A. G., van Niekerk, Reerink and van Wijk.)
Vaughn, Sidney P., San Diego, Calif. Cleaning device. 2,163,638; June 27.
Vaughn, Thomas H., Niagara Falls, N. Y., assignor to Union Carbide and Carbon Research Laboratories, Inc. Preparation of acetylenic alcohols. 2,163,720; June 27.
Ver Bockel, Albert J., Green Bay, Wis. Support for accordions. 2,163,859; June 27.
Vernhes, Pierre L., Johnstown, N. Y. Glove. 2,163,721; June 27.
Vetro, Samuel, Rochester, N. Y. Powered toy and energizing method therefor. 2,164,090; June 27.
Vickers, Theodore W., Los Angeles, Calif. Hydraulic braking system. 2,163,924; June 27.
Victor Metal Products Corporation. (See Jung, Albert H., assignor.)
Vidaver, Maxwell, New York, N. Y. Treating apparatus. 2,163,816; June 27.
Vogt, Henry, Machine Co. (See Fuller, Raymond C., assignor.)
Von Bramer, Harold, and A. C. Ruggles, Kingsport, Tenn., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Composition of matter produced from polyhydric phenols and alkyl amines. 2,163,639; June 27.
Von Bramer, Harold, and A. C. Ruggles, Kingsport, Tenn., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Inhibitor and motor fuel stabilized therewith. 2,163,640; June 27.
Von Radinger, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose m. b. H., Berlin, Germany. Antenna. 2,163,770; June 27.
Von und zu Guttenberg, Friedrich H. (See Reuss, W., and von und zu Guttenberg, assignors.)
Wadsworth, Frank L. O., deceased, by M. M. Wadsworth, administratrix, Pittsburgh, Pa., assignor to Ball Brothers Company, Muncie, Ind. Apparatus and procedure for severing and delivering molten glass. 2,164,184; June 27.
Wadsworth, Mildred M., administratrix. (See Wadsworth, Frank L. O.)
Wagner, Eugene H., Milwaukee, Wis. Draw rod adapter. 2,163,817; June 27.
Wagner, Johann, Breslau, Germany. Air distributor. 2,164,262; June 27.
Wagner, Paul, Burlington, Wis. Faucet. 2,163,925; June 27.
Waite, George, and H. G. Rogers, assignors to Irving Air Chute Co. Inc., Buffalo, N. Y. Parachute apparatus. 2,164,130; June 27.
Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)
Waldorf Paper Products Company. (See Guyer, R., and Lewis, assignors.)
Wales, George F., Kenmore, N. Y. Punching press. 2,163,641; June 27.
Wales, Nathaniel B., jr., New York, N. Y. Phase wave ion gun. 2,163,740; June 27.
Walker, Earl C., Chicago, Ill., assignor to International Harvester Company. Liquid fuel burner. 2,164,225; June 27.
Walker, Eric E. (See Lawrie, L. G., Reynolds, and Walker.)
Walker, Walter O., and W. R. Rinelli, assignors to Ansul Chemical Company, Marinette, Wis. Preventing formation of ice crystals in refrigerants. 2,163,899; June 27.
Walker, Walter O., and W. R. Rinelli, assignors to Ansul Chemical Company, Marinette, Wis. Preventing formation of ice crystals in refrigerants. 2,163,900; June 27.
Walker, Walter O., and W. R. Rinelli, assignors to Ansul Chemical Company, Marinette, Wis. Phosphorus pentoxide drier. 2,163,901; June 27.
Wall, John J., Detroit, Mich. Jet air pump. 2,164,263; June 27.
Wallach, André, Atlanta, Ga., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Process and apparatus for treating sheet material. 2,163,642; June 27.
Walsh, Anthony F., Hollis, assignor to Leviton Manufacturing Company, Brooklyn, N. Y. Receptacle. 2,163,729; June 27.
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Applying metal ferrules to fiber containers. 2,163,926; June 27.
Waltermire, Fred F., Houston, Tex., assignor to Continental Oil Company, Ponca City, Okla. Casing tester. 2,164,195; June 27.
Walti, Alphonse, Westfield, assignor to Merck & Co. Inc., Rahway, N. J. Producing proteolytic enzyme from ficus latex. 2,163,643; June 27.
Ware, Paul, New York, N. Y. Variable inductance. 2,163,644; June 27.
Ware, Paul, assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Inductive tuner. 2,163,645; June 27.
Ware, Paul, assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Tuning circuit. 2,163,646; June 27.
Ware, Paul, assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. High frequency tuner. 2,163,647; June 27.

Warner Bros. Pictures, Inc. (See Gibbons, James A., assignor.)
Waterman, Fred W., jr., Johnstown, Pa., assignor to The Universal Clay Products Company, Sandusky, Ohio. Spring clip. 2,164,264; June 27.
Watkins, George B., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated safety glass. 2,164,301; June 27.
Watkins, George B., and D. H. Goodwillie, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Manufacture of laminated safety glass. 2,163,648; June 27.
Weaver, Chester E., Los Angeles, Calif. Method and apparatus for utilizing high frequency compressional waves. 2,163,649; June 27.
Weaver, Chester E., Los Angeles, Calif. Producing high frequency compressional waves. 2,163,650; June 27.
Weaver, Joshua C., Chicago, Ill. Gear shifting mechanism. 2,163,741; June 27.
Wendt, Bruno. (See Eggert, J., and Wendt.)
Wernlz, James H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of normal, secondary pentadecyl sulphates. 2,163,651; June 27.
Wertzheiser, Joseph, New York, assignor to Leviton Manufacturing Company, Brooklyn, N. Y. Lamp connector. 2,163,902; June 27.
Wertzheiser, Joseph, Newark, N. J., and H. Charmey, Long Island City, N. Y., assignors to Hillside Cable Co., Hillside, N. J. Armored electrical cable. 2,164,168; June 27.
Western Electric Company. (See Selvig, John N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Buchanan, Leslie B. M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Saler, Jules N., assignor.)
Whalen, Paul E., Bedford, Ind. Hydraulic lash adjuster. 2,163,969; June 27.
Wheaton, A. W., Brass Works, Inc. (See Meyer, W., and Krone, assignors.)
White, Charles H., assignor to Deere & Company, Moline, Ill. Disk harrow. 2,163,818; June 27.
White, Frank, Bloomfield, N. J. Ladder foot. 2,163,970; June 27.
White, Robert M., Duluth, Minn. Material for conserving moisture in soil. 2,163,860; June 27.
White, William D., Algona, Iowa. Store interior construction. 2,163,861; June 27.
Whitehead, William, Cumberland, Md., assignor to Celanese Corporation of America. Cellulose derivatives and preparing same. 2,163,723; June 27.
Whittington, Ralph S., Springfield, Mass., assignor to Bendix Corporation, South Bend, Ind. Automatic control of clutch and throttle actuation of an automotive vehicle. 2,163,903; June 27.
Wickens, Edward F. (See Hart, D. W., and Wickens.)
Wienert, Fritz, Stassfurt, Germany, assignor, by mesne assignments, to Magnesium Development Corporation. Producing magnesium oxychloride. 2,163,819; June 27.
Wilcox, Robert C., near Flint, Mich. Fishline and making same. 2,164,296; June 27.
Wildt and Company Limited. (See Holmes, Henry H., assignor.)
Wilkin, George W., Spokane, Wash. Hydraulic motor. 2,163,652; June 27.
Wilks, Andrew W. (See Kleinberg, P. E., Schweiser, and Wilks.)
Williams, Clarence R., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y. Latching device. 2,164,027; June 27.
Wilmanns, Gustav, Wolfen, Bitterfeld, and W. Schneider and A. Fröhlich, Dessau Anhalt, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic developer. 2,163,820; June 27.
Wilson & Company. (See Adams, Nicholas M., assignor.)
Wilson, James G., Welch, assignor of one-half to J. K. Cooper, Premier, W. Va. Stove. 2,164,265; June 27.
Wing, Jack, South Woodford, England. Holder or container for dentures and other articles. 2,163,862; June 27.
Winkler, Albert H., assignor to Bendix Products Corporation, South Bend, Ind. Carburetor. 2,163,904; June 27.
Winthrop Chemical Company. (See Henecka, Hans, assignor.)
Wittman, Sylvester J., Oshkosh, Wis. Airplane landing gear. 2,163,653; June 27.
Wohlfarth, Reinhard M., assignor to Aktiengesellschaft vorm. Seidel & Naumann, Dresden, Germany. Optical profile grinding machine. 2,164,169; June 27.
Wolfskill, John M., Erie, Pa., assignor to Bliley Electric Company. Apparatus for protecting piezoelectric crystals from overload. 2,163,742; June 27.
Woodrow, Homer H. (See Hobson, W., and Woodrow.)
Woodward, Benjamin. (See Howey, W., Woodward, and Hancock.)
Woodyard, Kenneth C., Welsh, La., C. A. Putnam, Kountze, Tex., and H. R. Prescott, assignors to Continental Oil Company, Ponca City, Okla. Making geophysical explorations. 2,164,196; June 27.
Wright, David M., Agricola, Fla., assignor to Industrial Patents Corporation, Chicago, Ill. Separation apparatus. 2,163,927; June 27.
Wright, Milton B., St. Petersburg, Fla., assignor to Universal Fountain Brush Company, Inc. Fountain stencil brush. 2,164,004; June 27.
Wrightsman, John E. (See Fuller, William J., assignor.)
Wurzbach, Hugh E. (See Engelmann, E. W., and Wurzbach.)
Yoneta, Takeo, Yotsuyaku, Tokyo, Japan. Safety razor. 2,163,992; June 27.
Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch construction. 2,163,971; June 27.
Ziegler, Russell A. (See Kennedy, R. O., and Ziegler.)
Ziegler, Russell A., Douglaston, and F. Ferguson, assignors to Cluett, Peabody & Co. Inc., Troy, N. Y. Shirt holddown device. 2,163,654; June 27.
Zillman, Ben O. (See Marcham, A. J., and Reynolds, assignors.)
Zimic, Michael, Forest Hills West, Long Island, and A. Miskovsky, Astoria, Long Island, N. Y.; said Miskovsky assignor to said Zimic. Knitting machine and method. 2,164,170; June 27.
Zimmerman, Charles H., West Hartford, Conn. Slotted airplane wing tip. 2,163,655; June 27.
Zinkernagel, Richard, New York, and G. P. Jackson, Flushing, assignors to Combustion Engineering Company, Inc., New York, N. Y. Underfeed stoker. 2,164,100; June 27.
Zouckermann, Armand. (See Zuckermann, A., and Renard.)
Zuckermann, Armand, called A. Zouckermann, Paris, and A. J. E. Renard, Saint-Denis, assignors to Société à Responsabilité Limitée: Luminograph, Paris, France. Machine to punch electric sign tape or the like. 2,164,046; June 27.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Apparatus for evaporating and distilling. B. Fox and C. E. Ericson. Re. 21,129; June 27.

Baling, Apparatus for. G. Innes. Re. 21,132; June 27.

Bottle, Inkwell. G. R. Welsz. Re. 21,134; June 27.

Comb. W. Huppert. Re. 21,131; June 27.

Fabric making machine, Wire. I. C. Gellman. Re. 21,130; June 27.

Meter, Air velocity. J. R. Boyle. Re. 21,127; June 27.

Perforating machine. C. D. Lake. Re. 21,133; June 27.

Starter control for internal combustion engines. M. H. Elkin. Re. 21,128; June 27.

Window construction. R. T. Axe. Re. 21,126; June 27.

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Rose. J. Proietti. 333; June 27.

LIST OF DESIGN INVENTIONS

Ash tray. F. F. Colucci. 115,390; June 27.

Ash tray, Rolling. E. H. Barbe. 115,383; June 27.

Badge or similar article. H. Robinson. 115,450; June 27.

Biscuit, Edible. G. I. Andersen. 115,380; June 27.

Bottle. A. C. Burgund. 115,388; June 27.

Bottle. P. G. Lloyd. 115,415; June 27.

Bottle. A. Street. 115,430; June 27.

Box or similar article. W. C. Thom. 115,462; June 27.

Bracelet. E. J. Beaupre. 115,439; June 27.

Brooch or similar article. J. Hirsch. 115,401; June 27.

Brooch or similar article. J. Hirsch. 115,403; June 27.

Brooch or similar article. J. Hirsch. 115,444–5; June 27.

Building block, Hollow glass. J. H. Sutter. 115,432; June 27.

Bumper and a guard or similar article, Combined. H. S. Jandus. 115,405–7; June 27.

Button. M. Philip. 115,421; June 27.

Cabinet for circulating heater. G. Wilmet. 115,463; June 27.

Case, Clock. O. G. Williams. 115,436; June 27.

Casing for a stitching machine. F. A. Prahl, Jr. 115,423; June 27.

Cage, Bird. N. M. Schepps. 115,427; June 27.

Carburetor. R. E. Schmidt. 115,428; June 27.

Chair. J. D. Rogers. 115,425; June 27.

Cigar machine or similar article. H. H. Wheeler and H. Rosengren. 115,435; June 27.

Closure, Slide fastener. R. Kay. 115,455–9; June 27.

Coupling and spray nozzle, Combined. F. F. Lindstaedt. 115,414; June 27.

Cracker and pick, Combined. L. Roos. 115,426; June 27.

Cup, Electrical self-heating. H. E. Lacy. 115,411–2; June 27.

Dish or similar article, Oyster. I. J. Heath. 115,398; June 27.

Dress. L. Abbott. 115,464; June 27.

Dress. A. Cohen. 115,466–7; June 27.

Dress. P. Fracchia. 115,469–76; June 27.

Dress. B. Shapiro. 115,483; June 27.

Dress. J. M. Sterngold. 115,485; June 27.

Dress ensemble. A. Cohen. 115,468; June 27.

Earring or similar article. A. Philippe. 115,422; June 27.

Fabric or similar article, Embroidered net. J. Gottreich. 115,442; June 27.

Fabric or similar article, Textile. E. P. Bixer. 115,465; June 27.

Fabric or similar article, Textile. F. Matarrese. 115,447; June 27.

Fabric or similar article, Textile. M. Turpan. 115,452–4; June 27.

Fabric, Textile. M. Beckendorf. 115,440; June 27.

Fabric, Textile. M. Harris. 115,443; June 27.

Fan or similar article, Electric. M. S. Park. 115,448; June 27.

File, Nail. A. E. Johnson. 115,408; June 27.

Film viewing device. W. H. Harrison. 115,397; June 27.

Frame, Bag. C. McLaughlin. 115,461; June 27.

Goggles. T. A. Willson. 115,437; June 27.

Hat. N. Du Bow. 115,486; June 27.

Hat covering, Protective transparent. L. Royak. 115,482; June 27.

Holder or article of similar nature, Combined glass candlestick and vase. E. W. Heisey. 115,400; June 27.

Holder, Soap. L. Taddeo. 115,433; June 27.

Iron, Electric creasing. G. F. Bahr. 115,382; June 27.

Jacket, Windbreaker. R. L. Smith. 115,484; June 27.

Key, Souvenir. W. R. Burke. 115,389; June 27.

Lamp, Desk. C. D. McCann. 115,417; June 27.

Lamp, Emblem. T. C. Surles. 115,431; June 27.

Lamp for vehicles, Combination clearance and side marker. G. F. Burgess. 115,387; June 27.

Letter opener and watch, Combined. R. Sutera. 115,451; June 27.

Mat or similar article. T. L. Leishman. 115,478–81; June 27.

Ornament or the like, Decorative wall. F. D. Lynch. 115,446; June 27.

Pan, Glass frying. J. C. Francis. 115,395; June 27.

Pin or similar article, Clip. J. Hirsch. 115,402; June 27.

Plaque. L. C. and A. F. Kotz. 115,410; June 27.

Plate for heat exchanger. C. B. Dalzell. 115,441; June 27.

Plate, Salad. I. J. Heath. 115,399; June 27.

Projector and pedestal therefor, Combination motion picture. K. Brenkert. 115,386; June 27.

Radio or similar article. K. Lerman. 115,413; June 27.

Receptacle for paper tissues and the like. R. Munson, I. M. Lax, and M. Silverstein. 115,419; June 27.

Refrigerator, sink and cabinet, Combined. G. L. C. Earle. 115,393; June 27.

Roaster or the like, Coffee. D. W. Adams and R. L. Schuhmann. 115,378–9; June 27.

Sandal. E. Bonyhady. 115,385; June 27.

Shoe. C. Kliche. 115,409; June 27.

Shoe or similar article. H. Auerbach. 115,381; June 27.

Shoe sole. W. H. Wirries. 115,438; June 27.

Sign, Display. R. M. Grey. 115,396; June 27.

Sign, Display. D. M. Meuller. 115,418; June 27.

Signal device. L. Rittenhouse. 115,449; June 27.

Sofa or similar article. C. Stoll. 115,429; June 27.

Sphygmomanometer, Pedestal. W. A. Baum. 115,384; June 27.

Stand, Display. O. O. Hobson. 115,404; June 27.

Stand, Smoking. J. M. Eggers. 115,394; June 27.

Stoker. F. W. Vodoz and A. H. Haberstump. 115,434; June 27.

Stove, refrigerator, sink and cabinet, Combined. G. L. C. Earle. 115,491; June 27.

Stove, sink and cabinet, Combined. G. L. C. Earle. 115,392; June 27.

Sweater. A. Gepner. 115,477; June 27.

Tire. B. R. Prall. 115,424; June 27.

Tool, Torque indicating. S. Mandl. 115,416; June 27.

Top for containers or similar articles, Pouring. W. G. Pancoast. 115,420; June 27.

Washer, Bottle. R. A. Lippold. 115,460; June 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading apparatus. W. A. Rosenberger. 2,163,631; June 27.

Acids, Production of amino. W. H. Engels and G. A. Stein. 2,163,594; June 27.

Acids, Refining phosphatovanadic. F. C. Bowman. 2,163,773; June 27.

Acoustic device. E. P. Kennedy. 2,164,157; June 27.

Adhesive and making the same. W. D. Fawthrop. 2,164,269; June 27.

Adhesive composition, Liquid. A. D. Macdonald. 2,163,611; June 27.

Adhesive compositions. A. D. Macdonald. 2,163,610; June 27.

Adhesive compositions, Plastic polymerized chloropene- A. D. Macdonald. 2,163,609; June 27.

Adhesive, Preparing an. A. D. Macdonald. 2,163,612; June 27.

Advertising device. H. S. Ray. 2,163,763; June 27.

Agricultural machine. L. J. Pfister. 2,163,849–51; June 27.

Agriculture machine. D. Blunt. 2,163,726; June 27.

Agitator. L. A. James. 2,164,277; June 27.

Air conditioning. C. A. Rodman. 2,164,223; June 27.

Air control for blowers for automatic stokers. W. W. Sayers. 2,163,706; June 27.

Air distributor. J. Wagner. 2,164,262; June 27.

Air in an enclosure, Conditioning the. A. J. Loepsinger. 2,163,692; June 27.

Air-pressure reducing and regulating device. F. E. Thomes and A. E. Nugent. 2,164,095; June 27.

Air venting and vacuum maintaining valve. L. L. Lasher, W. R. Chesley, and J. A. Parks, Jr. 2,163,909; June 27.

Aircraft. J. W. Dyer. and D. Kay. 2,163,728; June 27.

Airplane landing gear. S. J. Wittman. 2,163,653; June 27.

Airplane wing tip, Slotted. C. H. Zimmerman. 2,163,655; Alcohol containing dibenzylamine, Denatured. L. J. Figg, Jr. 2,163,834; June 27.

Alcohols and products resulting therefrom, Esterification of allyl type. H. P. A. Groll and G. Hearne. 2,164,188; June 27.

Alcohols, Preparation of acetylenic. T. H. Vaughn. 2,163,720; June 27.

Alkaline compounds, Preparing solid. G. W. Smith. 2,164,092; June 27.

Alloy: *See*—
Magnesium alloy.

Amino alcohols, Secondary. H. B. Hass and B. M. Vanderbilt. 2,164,271; June 27.

Amplifier, Telemetering torque. A. J. Moore. 2,164,179; June 27.

Amplifying device, Fluid pressure. E. A. Rockwell. 2,163,764; June 27.

Animal trap. E. L. Allen. 2,163,577; June 27.

Animal trap. D. W. Burt. 2,163,827; June 27.

Anion mercuri 1,3-dihydroxy 4-alkyl 6-halo benzene. W. G. Christiansen. 2,163,745; June 27.

Annealing box. K. J. Deahl. 2,163,937; June 27.

Antenna. W. Berndt. 2,163,743; June 27.

Antenna. R. von Radinger. 2,163,770; June 27.

Antipilferage device. A. McWalters. 2,163,955; June 27.

Antiseepage breast device. H. R. Littlehales. 2,163,792; June 27.

Anvil, Ledger plate. E. L. Mulvaney. 2,164,283; June 27.

Apparatus for grinding material in a more or less viscous condition. A. Sonsthagen. 2,163,765; June 27.

Apparatus for marking the position of a vehicle on a map. R. M. R. Courtois-Suffit and H. E. Tailleferre. 2,163,746; June 27.

Apparatus for producing fire extinguishing foam. W. Friedrich. 2,164,153; June 27.

Apparatus for the continuous distillation of high-boiling hydrocarbons to coke. A. Knudsen. 2,164,247; June 27.

Apparatus for weatherproofing composition board. R. S. Maclean and C. W. Pollard. 2,163,757; June 27.

Apparel and making the same, Wearing. H. C. Underwood. 2,163,717; June 27.

Applicator. A. H. Jung. 2,164,244; June 27.

Arch support. A. J. Cote. 2,163,906; June 27.

Armored electrical cable. J. Wertzheiser and H. Charmoy. 2,164,168; June 27.

Aromatic amines, Production of. H. G. Mow. 2,163,617; June 27.

Article container. G. L. McCann. 2,163,759; June 27.

Article of attire. H. C. Underwood. 2,163,718; June 27.

Articles, Treating dipped rubber. J. R. Gammeter. 2,163,784; June 27.

Articulator, Dental. R. A. Pittman and J. A. Gardner. 2,164,144; June 27.

Attachment for cutter grinders. R. K. Le Blond. 2,164,212; June 27.

Attachment for washing machines. G. B. Keil. 2,164,070; June 27.

Automobile body. J. Tjaarda. 2,164,097–8; June 27.

Automobile construction. H. Brewster. 2,164,150; June 27.

Automobile lighting device. O. H. Underdorfel. 2,164,149; June 27.

Automobiles, Preventing theft of. J. L. Osgood. 2,164,076; June 27.

Azo compounds of high molecular weight. K. Koeberle 2,163,950; June 27.

Bag: *See*—
Carry bag.

Band modulation, Single side. C. W. Hansell. 2,163,680; June 27.

Band modulation, Wide. G. Schaffstein. 2,163,707; June 27.

Basting device for cooking meats, vegetables, and the like. G. G. Kitzeman. 2,164,072; June 27.

Bearing: *See*—
Journal bearing.

Bell and alarm, Door. D. Borland. 2,164,029; June 27.

Belt hook holder. A. Bray. 2,164,049; June 27.

Belt, Metallic cartridge. T. E. Bergmann. 2,163,725; June 27.

Benzenes, Hydrogenation of mono nitrated alkoxy. C. O. Henke and R. G. Benner. 2,164,154; June 27.

Binder, Loose leaf ring. F. S. Schade. 2,163,856; June 27.

Blowpipe. A. L. Peterson. 2,164,256; June 27.

Board: *See*—
Shirt board.

Bobbin. A. D. Muller. 2,163,618; June 27.

Book, Manifolding. H. Steven. 2,163,714; June 27.

Books, Treating unbound. C. Schramm. 2,163,812; June 27.

Bottle capping apparatus. L. L. Seymour. 2,164,026; June 27.

Box: *See*—
Annealing box. Grayhound starting box,
Filing box. Glass.

Box. J. W. Chalmers. 2,163,828; June 27.

Box element multiplier. R. L. Snyder. 2,163,966; June 27.

Bracelet. E. J. Beaupre. 2,164,197; June 27.

Brake. B. E. House. 2,163,879; June 27.

Brake. L. E. La Brie. 2,163,884; June 27.

Brake. E. R. Price. 2,164,001; June 27.

Brake. E. S. Smith, Jr. 2,164,300; June 27.

Brake. C. H. Taylor. 2,163,897; June 27.

Brake booster. G. H. Hunt. 2,163,686; June 27.

Brake shoe assembly. F. W. Kateley. 2,164,015; June 27.

Brake system, Hydraulic. C. Sauzedde. 2,163,633; June 27.

Braking system, Hydraulic. T. W. Vickers. 2,163,924; June 27.

Bromine, Making. G. W. Hooker. 2,163,877; June 27.

Brush, Fountain stencil. M. B. Wright. 2,164,004; June 27.

Building construction. B. London. 2,164,137; June 27.

Building construction. B. London. 2,164,138; June 27.

Burner: *See*—
Liquid fuel burner. Oil burner.

Cabinet for mops, Vacuum. P. Bischof. 2,164,131; June 27.

Cabinet, shelf, and light, Radio. D. V. Marsh. 2,163,615; June 27.

Cable: *See*—
Armored electrical cable.

Cable installation. H. W. Fisher. 2,163,783; June 27.

Calorimeter, Integrating. M. Goetzl. 2,163,730; June 27.

Cam structure, Variable. C. H. Bissell. 2,163,864; June 27.

Camera. O. W. Githens, J. Norden, and E. G. Mannerberg. 2,164,061; June 27.

Camera, Copying. I. B. Current and W. Henrikson. 2,163,776; June 27.

Can with spout protector. G. A. Leighton. 2,163,952; June 27.

Carbon black and treating same. H. W. Price. 2,164,164; June 27.

Carbon black, Producing. F. C. Reed. 2,163,630; June 27.

Carburetor. A. H. Winkler. 2,163,904; June 27.

Carburetor controlling device. R. G. Handy. 2,163,997; June 27.
Carrier wave signaling. A. V. T. Day. 2,164,032; June 27.
Carrier wave transmitter. W. T. Ditcham. 2,163,670; June 27.
Carry bag. G. W. Poppe. 2,163,963; June 27.
Casing protector. W. I. Bettis. 2,163,932; June 27.
Casket handle. G. M. Clifford. 2,163,830; June 27.
Casting machine for stereotype plates. E. S. Bird. 2,163,658; June 27.
Catalyst for and process of selectively carrying out catalytic reactions. L. G. Jenness. 2,163,602; June 27.
Cathead. G. N. Parker. 2,163,736; June 27.
Causticization of soluble sulphides. H. K. Moore. 2,164,141; June 27.
Cells for oxide film arresters, Reproducing. M. Ona. 2,163,983; June 27.
Cellulose, Decomposition of raw. F. Offermanns. 2,164,040; June 27.
Cellulose derivatives and preparing same. W. Whitehead. 2,163,723; June 27.
Cellulose ethers, Making. W. R. Collings and L. De Pree. 2,163,869; June 27.
Chain for mining machines, Cutter. J. J. Slomer. 2,164,091; June 27.
Chair: *See*—
Channel chair. Rocking chair.
Channel chair. E. A. Podd and F. J. Niven. 2,163,889; June 27.
Chart for shoe measurements, Record. C. B. Brown. 2,163,661; June 27.
Cheese and preparing the same, Processed. F. Dralsbach. 2,163,778; June 27.
Chemical process. H. G. Tanner. 2,163,768; June 27.
Chlorine dioxide, Production of. J. O. Logan. 2,163,793; June 27.
Chlorohydrins, Manufacture of. H. M. Guinot. 2,164,240; June 27.
Cigarette extinguisher. A. R. Pierce, Jr. 2,164,082; June 27.
Circuit: *See*—
Tuning circuit.
Circuit controlling device. R. G. Lockett. 2,164,037; June 27.
Circuit controlling system. E. W. Seeger and G. C. Brown. 2,164,087; June 27.
Circuit interrupter, High voltage electric. E. J. Frank. 2,164,175; June 27.
Circuits, Controlling electric. K. E. Schimkus and W. Dumke. 2,163,708; June 27.
Circuits, Controlling electric. K. E. Schimkus. 2,163,709; June 27.
Clamp: *See*—
Ground-wire clamp.
Clamp. O. F. Tallman. 2,164,094; June 27.
Clamp for vulcanizing patches. M. E. Hill. 2,163,876; June 27.
Clarinet. J. W. Haynes. 2,164,110; June 27.
Clasp, Garment. W. E. Olmstead. 2,163,623; June 27.
Clasp, Hair curl. R. Bacon. 2,163,824; June 27.
Cleaner: *See*—
Eraser cleaner. Vacuum cleaner.
Cleaning and bleaching composition. W. Reuss and F. H. von und zu Guttenberg. 2,164,146; June 27.
Cleaning device. S. P. Vaughn. 2,163,638; June 27.
Clip: *See*—
Spring clip.
Closure for envelopes. V. C. Ross. 2,163,916; June 27.
Closure lock. A. E. Fohn. 2,163,752; June 27.
Clutch. E. V. J. Tower. 2,163,991; June 27.
Clutch construction. R. C. Zeidler. 2,163,971; June 27.
Clutch control mechanism. R. S. Sanford. 2,163,891; June 27.
Clutching mechanism. A. F. Fischer. 2,163,596; June 27.
Coating machine. W. V. Shearer. 2,163,712; June 27.
Coating on metallic objects, Preparation of rust-preventing. V. A. Petkovic. 2,163,984; June 27.
Collapsible container. M. Adkisson. 2,163,636; June 27.
Comb, Hair. W. P. Brown. 2,164,105; June 27.
Comb, Hair dressing. A. H. Madore. 2,164,073; June 27.
Composition of matter produced from polyhydric phenols and alkyl amines. H. von Bramer and A. C. Ruggles. 2,163,639; June 27.
Composition of matter derived from starch and making the same. W. R. Fetzer. 2,163,782; June 27.
Compressional waves, Method and apparatus for utilizing high frequency. C. E. Weaver. 2,163,649; June 27.
Compressional waves, Producing high frequency. C. E. Weaver. 2,163,650; June 27.
Compressor for hydraulic brakes. R. A. Goepfrich. 2,163,874; June 27.
Concrete placing apparatus. C. Jackson. 2,163,882; June 27.
Condensation polyamides, Preparing linear. E. W. Spanagel. 2,163,636; June 27.
Condenser: *See*—
Electrical condenser.
Confection making apparatus. H. E. Bianchi. 2,163,580; June 27.
Confections, Manufacture of. H. E. Bianchi. 2,163,579; June 27.
Connection apparatus, Electrical. H. A. Douglas. 2,164,201–2; June 27.
Connection means, Electrical. H. A. Douglas. 2,164,200; June 27.
Connection means, Electrical. H. A. Douglas. 2,164,203; June 27.
Connector: *See*—
Electric connector. Lamp connector.
Electrical connector. Split-belt connector.
Connector. R. A. Goeller. 2,163,677; June 27.
Contact apparatus, Countercurrent. D. S. McKittrick. 2,164,193; June 27.
Container: *See*—
Article container. Dispensing container.
Collapsible container.
Container. E. G. Ellstrom. 2,164,055; June 27.
Container. J. H. Murch. 2,163,619; June 27.
Container. W. A. Ringler. 2,163,703; June 27.
Control apparatus. E. C. Raney and A. M. Hoover. 2,164,221; June 27.
Control mechanism for changespeed gears of motor vehicles and the like. R. L. Delmas. 2,163,975; June 27.
Control of clutch and throttle actuation of an automotive vehicle, Automatic. R. S. Whittington. 2,163,903; June 27.
Control of heat exchange. E. J. Houdry. 2,163,599; June 27.
Control system. P. S. Dickey. 2,163,592; June 27.
Control system for dynamo-electric machines. G. R. Anderson. 2,163,972; June 27.
Controlling apparatus. R. Aikan. 2,163,724; June 27.
Conveyer apparatus, Drying, heating, or roasting. E. W. Engelman and H. E. Wurzbach. 2,164,056; June 27.
Cope, Flexible. C. K. Hansen. 2,163,681; June 27.
Copy sheet. H. E. Collins. 2,163,934; June 27.
Core making machine. C. Prehoda. 2,163,964; June 27.
Corner bead. J. J. Manofsky. 2,163,613; June 27.
Coupling. F. J. Raybould. 2,163,810; June 27.
Coupling device intended especially for railroad vehicles. E. Bugatti. 2,163,826; June 27.
Cover: *See*—
Desk cover.
Covering for dead ends, Protective. O. C. Kerr. 2,163,790; June 27.
Crystallization process. F. Jeremiassen. 2,164,112; June 27.
Crystals from overload, Apparatus for protecting piezoelectric. J. M. Wolfskill. 2,163,742; June 27.
Curler, Hair. G. Kassover. 2,164,135; June 27.
Curler, Hair. C. Seidel. 2,163,894; June 27.
Cushioning mechanism. W. H. Mussey. 2,164,160; June 27.
Cut-off machine. M. L. Strawn and A. Oberhoffken. 2,163,967; June 27.
Cutter: *See*—
Sod cutter. Sugarcane cutter.
Cutting. A. J. Jacobsen. 2,163,687; June 27.
Cutting machine. T. Christie. 2,163,868; June 27.
Cylinder head structure. I. E. Aske. 2,163,905; June 27.
Dental massage appliance. J. J. McGerry. 2,164,219; June 27.
Derivatives of coal tar, Purification of crystallizable. J. H. Boyd, Jr. 2,163,581; June 27.
Derivatives of phenanthrolins and preparing the same. H. Henecka. 2,163,946; June 27.
Desk cover. S. J. Roberts. 2,163,985; June 27.
Device for conveying and stripping press cakes. A. N. Honig. 2,163,839; June 27.
Device for fabricating detachable drill bits. C. E. Cook. 2,163,935; June 27.
Device for mixing fibrous material with binders such as plaster, cement, magnesite, and the like. J. Steinert. 2,164,044; June 27.
Device for the vulcanization of rubber. R. A. Dufour and H. A. Leduc. 2,163,993; June 27.
Diaphragm working by means of a photo-electric cell, a light-sensitive element, or the like, Automatic. F. B. A. Prinsen. 2,163,737; June 27.
Dicing machine, Rotary. T. F. Hornung. 2,163,878; June 27.
Die: *See*—
Threading die.
Diffraction method of and apparatus for color photography. S. B. Grimson. 2,164,062; June 27.
Die plates and other castings and product thereof, Making hot molding. H. K. Ihrig. 2,163,753; June 27.
Dipper trip, Electrically operated. W. W. Stevens. 2,164,126; June 27.
Disconnect switch. A. M. de Bellis. 2,164,231; June 27.
Dish draining rack. D. H. Bitney. 2,163,865; June 27.
Disk harrow. C. H. White. 2,163,818; June 27.
Disk harrow, Offset. L. Sanders. 2,163,917; June 27.
Dispensing container. D. O. Blett. 2,163,974; June 27.
Display rack. D. H. Bitney. 2,163,866; June 27.
Disulphides, Preparing alkyl xanthic. A. Moeller. 2,163,956; June 27.
Door latch. G. H. Murrin. 2,163,957; June 27.
Drafting machine. C. H. Little. 2,164,215–8; June 27.
Drain attachment, Dentists' gold-recovering. H. R. Hall and G. W. Conner. 2,163,837; June 27.
Drier: *See*—
Phosphorous, pentoxide drier.
Drive for sheet glass machines, Lehr. D. R. Limbers. 2,164,071; June 27.
Drive, Sectional. W. Ferris. 2,163,672; June 27.

Dyestuffs soluble in water, Monoazo. E. Fischer and R. Huss and W. Guelln. 2,164,008; June 27.
Easel. V. Fortunato. 2,164,152; June 27.
Egg transfer device. J. G. Rietfort. 2,164,222; June 27.
Electric arc furnace. K. Schneider and H. Schunck. 2,164,024; June 27.
Electric connector. R. N. Rowe. 2,164,022; June 27.
Electric incandescent lamp. P. O. Cartun and W. D. Pew. 2,164,288; June 27.
Electric iron, Self-propelled. H. Rossen. 2,164,085; June 27.
Electric lamp. J. A. M. Van Liempt and W. Elenbaas. 2,164,183; June 27.
Electric motor. O. Lindell. 2,164,250; June 27.
Electric switch. J. G. Peterson. 2,163,626; June 27.
Electrical condenser. K. F. Rodgers. 2,164,165; June 27.
Electrical connector. M. Alden. 2,163,771; June 27.
Electrical connector. L. O'Russa. 2,164,075; June 27.
Electrical resistor. J. J. Mucher. 2,163,797; June 27.
Electrical wave filter. H. O. Peterson. 2,163,625; June 27.
Electricians' tool. N. Gizarelli. 2,163,676; June 27.
Electromagnetic construction. E. S. Ostler. 2,164,041; June 27.
Electron device. W. Henneberg and A. Recknagel. 2,163,787; June 27.
Electron multiplier, Secondary. M. Ploke and W. Lang. 2,163,700; June 27.
Electron tube. W. Dällenbach and A. Allerding. 2,163,589; June 27.
Engine: *See*—
Two-cycle engine.
Engine speed and reverse control. D. R. Staples. 2,163,895; June 27.
Engines, Charging internal combustion. R. A. Erren. 2,164,234; June 27.
Envelope-stuffing machine. A. B. Crosby. 2,163,572; June 27.
Enzyme from ficus latex, Producing proteolytic. A. Walti. 2,163,643; June 27.
Eraser cleaner. F. L. Hennefer. 2,163,788; June 27.
Eraser, erasing material, and forming the same. W. E. Jones. 2,164,035; June 27.
Ethers of polyhydric alcohols, Secondary. T. W. Evans and E. F. Bullard. 2,164,007; June 27.
Evaporator control means. R. H. Money. 2,163,698; June 27.
Extensible fastener. A. R. Richtmyer. 2,163,811; June 27.
Extractor. J. H. Kautsky. 2,164,016; June 27.
Fabric: *See*—
Knitted fabric. Woven fabric.
Fabric and making same, Pile. H. L. Shuttleworth 2,164,090; June 27.
Fabric spreading means. W. H. Hall, Jr. 2,164,241; June 27.
Fabrics, Production of laminated. L. G. Lawrie, R. J. W. Reynolds, and E. E. Walker. 2,164,248; June 27.
Fabrics, Treatment of pile. A. H. Gentle. 2,163,674; June 27.
Facsimile transmission and reproduction. M. D. McFarlane and E. H. Hansen. 2,164,038; June 27.
Fastener: *See*—
Extensible fastener.
Fastener for shoelaces. C. Rio. 2,164,123; June 27.
Fastening for attaché and suit cases and the like. C. W. Cheney. 2,163,774; June 27.
Fatty matter raffinates, Treatment of nonmineral. W. J. Hund and L. Rosenstein. 2,164,012; June 27.
Fatty matter refining process. W. J. Hund and D. H. Rowe. 2,164,189; June 27.
Faucet. P. Wagner. 2,163,925; June 27.
Fence, Electric. J. A. Lucas. 2,163,954; June 27.
Fence, Road guard. H. Robertson. 2,164,084; June 27.
Fermenting molasses and like mashes. W. L. Owen. 2,164,255; June 27.
Ferrules to fiber containers, Applying metal. C. T. Walter. 2,163,926; June 27.
File or carrier, Fishhook. G. D. Schweigert. 2,164,259; June 27.
Filing box. A. Efron. 2,164,133; June 27.
Film band reeling apparatus, Endless. W. Dällenbach. 2,163,870; June 27.
Film on a carrier, Mounting a metallic. W. F. Grupe. 2,164,010; June 27.
Filter: *See*—
Electrical ware filter. Radio frequency filter.
Filtering finely divided solids from fluid suspension. H. K. Moore. 2,164,142; June 27.
Fish trap. O. K. Benca and F. Benca. 2,163,973; June 27.
Fishing reel. V. E. Pearson. 2,163,914; June 27.
Fishline and making same. R. C. Wilcox. 2,164,296; June 27.
Flashlight and key case, Combined pocket. N. H. Swanson. 2,164,148; June 27.
Flatiron, Electrical. C. E. Beyar. 2,164,287; June 27.
Flaws in materials, Indicating. S. Sokoloff. 2,164,125; June 27.
Float. C. N. Merralls. 2,163,795; June 27.
Flotation process. R. C. Ried. 2,163,701–2; June 27.
Flotation reagent. R. S. Handy. 2,164,063; June 27.
Flow preventer for oil wells. W. K. Edwards and O. Thompson. 2,163,976; June 27.
Flow-rate responsive control means. W. R. Perry. 2,164,019; June 27.
Fluid control valve. H. W. Fink. 2,164,057; June 27.
Fluid flow regulator. M. H. Grove. 2,163,597; June 27.
Fluid irradiator. M. J. Dorcas, G. C. Supplee and F. Remesch, Jr. 2,163,573–4; June 27.
Fluid-operated jack. J. Mercier. 2,163,982; June 27.
Food composition. T. J. Otterbacher. 2,163,913; June 27.
Forging device. D. W. Hart and E. F. Wickens. 2,163,786; June 27.
Frame: *See*—
Picture frame.
Frame. G. Matthews and H. E. Churchill. 2,163,694; June 27.
Fuel cock assembly. G. T. Downey. 2,164,232; June 27.
Fuel, Diesel. G. S. Crandall and W. H. James. 1,164,151; June 27.
Fur stretching device. C. Sturtz. 2,163,989; June 27.
Furnace: *See*—
Electric arc furnace. Wall furnace.
Fuse for projectiles, Time. J. Lasserre. 2,164,115; June 27.
Garment for women, Foundation. J. Leonard. 2,164,136; June 27.
Garment hanger. R. Guyer and R. B. Lewis, jr. 2,164,207; June 27.
Garment hanger. R. Guyer. 2,164,208; June 27.
Gas, Generating. A. J. Diescher. 2,163,871; June 27.
Gaseous mixtures, Purification and separation of. R. W. Millar and R. L. Maycock. 2,164,194; June 27.
Gauge: *See*—
Linking gauge. Liquid level gauge.
Gear: *See*—
Airplane landing gear.
Gear shifting mechanism. G. F. Houston and R. S. Sanford. 2,163,880; June 27.
Geor shifting mechanism. V. W. Kliesrath. 2,163,883; June 27.
Gear shifting mechanism. J. C. Weaver. 2,163,741; June 27.
Gearing, Engine Starter. D. P. Kearney. 2,163,841; June 27.
Gem grinding machine. E. C. Smith. 2,163,987; June 27.
Geophysical explorations, Making. K. C. Woodyard, C. A. Putnam, and H. R. Prescott. 2,164,196; June 27.
Glass, Apparatus and procedure for severing and delivering molten. F. L. O. Wadsworth. 2,164,184; June 27.
Glass, Apparatus for the drawing of sheet. P. Bertrand. 2,164,048; June 27.
Glass block sections, Joining. L. D. Soubier. 2,164,093; June 27.
Glass handling apparatus. W. Owen. 2,164,077; June 27.
Glass, Laminated safety. G. B. Watkins. 2,164,301; June 27.
Glass, Manufacture of laminated safety. G. B. Watkins and D. H. Goodwillie. 2,163,648; June 27.
Glove. P. L. Vernhes. 2,163,721; June 27.
Glycerin, Distillation of. M. H. Ittner. 2,164,274–6; June 27.
Grain, Moistening. O. H. Pilkey. 2,163,628; June 27.
Greyhound starting box, Glass. H. S. Levenson. 2,164,213; June 27.
Grinding device, Automatic. A. Lemay. 2,164,155; June 27.
Grinding machine, Optical profile. R. M. Wohlfarth, 2,164,169; June 27.
Grinding machine, Track rail. W. Hobson and H. H. Woodrow. 2,163,908; June 27.
Gripping device. E. E. Kellems. 2,164,278; June 27.
Ground-wire clamp. J. Rogoff. 2,164,021; June 27.
Guard, Center road-dividing. J. B. Rauen. 2,163,809; June 27.
Guide, Sewer rod. J. Hochberger. 2,163,947; June 27.
Gun, Phase wave ion. N. B. Wales, jr. 2,163,740; June 27.
Gut, Treating. N. M. Adams. 2,164,101; June 27.
Halter, Bull resisting. C. F. Rapp. 2,163,855; June 27.
Handle: *See*—
Casket handle.
Hanger: *See*—
Garment hanger. Pipe hanger.
Harrow construction. A. E. W. Johnson. 2,164,211; June 27.
Harrow, Intergeared offset disk. J. V. Dyrr. 2,164,204; June 27.
Hearing apparatus for the deaf, Electric. H. Pescador. 2,164,121; June 27.
Heating and control means. E. J. Lattner. 2,163,910; June 27.
Heating plant. W. G. Noack and C. Seippel. 2,163,762; June 27.
Heating system, Orchard. W. S. Hilborn. 2,164,011; June 27.
Heating unit and making same, Electric. W. H. Ginder. 2,163,942; June 27.
Hemorrhage arrester. R. E. Cornish. 2,163,588; June 27.
Hexanepentols and their preparation. L. W. Covert. 2,164,268; June 27.
Hinge. M. L. Anderson. 2,163,576; June 27.
Hinge. E. W. Baumann. 2,164,047; June 27.

Hinge,Concealed. J. Soss. 2,163,713; June 27.
Hitch for offset harrows. A. E. W. Johnson. 2,164,210; June 27.
Hitch, Trailer. C. O. Jacks. 2,163,909; June 27.
Holder: *See*—
Belt hook holder. Razor blade holder.
Paper roll holder.
Holder and lock, Window sash. C. E. Axtell. 2,164,102; June 27.
Holder and the like, Brassière strap. M. E. Cunningham. 2,163,936; June 27.
Holder for articles. L. J. Schockling. 2,163,710; June 27.
Holder for cymbals, Rubber. F. F. Kiemle. 2,163,949; June 27.
Holder or container for dentures and other articles. J. Wing. 2,163,862; June 27.
Honing machine. A. M. Johnson. 2,163,604; June 27.
House number sign. R. G. McConnell. 2,163,695; June 27.
Hub, Autogiro rotor. G. S. Schairer. 2,163,893; June 27.
Hull construction, Double planked. A. J. Higgins. 2,163,998; June 27.
Humidifier. E. A. Reid. 2,164,083; June 27.
Humidity control. A. W. De Vout. 2,163,907; June 27.
Hydraulic motor. G. W. Wilkin. 2,163,652; June 27.
Hydrocarbons, Conversion of. E. G. Borden. 2,163,867; June 27.
Hydrocarbons, Treatment of. R. D. Snow. 2,163,858; June 27.
Hydroextractor. F. W. Gerard and R. C. Collins. 2,164,174; June 27.
Hydrogen peroxide, Production of. J. A. L. van der Lande. 2,163,898; June 27.
Hydrogen, Producing. L. G. Jenness. 2,164,292; June 27.
Hydrogenation, Process of. L. G. Jenness. 2,163,603; June 27.
Ice crystals in refrigerants, Preventing formation of. W. O. Walker and W. R. Rinelli. 2,163,899–900; June 27.
Ignition device for internal combustion engines. R. P. Lansing and J. W. Allen. 2,163,843; June 27.
Illuminating apparatus for ovens or the like. C. J. Grayson. 2,164,239; June 27.
Impact indicator. M. A. L. Perrey. 2,163,847; June 27.
Impeller. W. van Rijswijk. 2,164,020; June 27.
Indicator: *See*—
Impact indicator. Well drilling indicator.
Program indicator.
Induction system for internal combustion engines. A. H. Cuddon-Fletcher. 2,164,230; June 27.
Inhibitor and motor fuel stabilized therewith. H. von Bramer and A. C. Ruggles. 2,163,640; June 27.
Insulation. C. G. Munters. 2,164,143; June 27.
Iron: *See*—
Electric iron.
Iron and stand therefor, Electric. O. C. Ritz-Woller. 2,163,704; June 27.
Iron, Making powdered. F. O. Clements, R. H. Terry, and D. J. Henry. 2,164,198; June 27.
Jack: *See*—
Fluid-operated jack. Vehicle jack.
Lifting jack.
Jet air pump. J. J. Wall. 2,164,263; June 27.
Jewelry set with diamonds, Manufacturing of. D. Swarovski. 2,163,814; June 27.
Jig, Fishing. W. G. Carter and E. P. Chandler. 2,163,666; June 27.
Journal bearing. G. R. Coleman. 2,163,586–7; June 27.
Knife, Paring. W. J. Mack. 2,164,117; June 27.
Knitted fabric. H. H. Holmes. 2,164,289; June 27.
Knitting machine. H. McAdams. 2,164,118–9; June 27.
Knitting machine and method. M. Zimic and A. Miskovsky. 2,164,170; June 27.
Knob, Pull. J. A. and J. P. Gits. 2,164,206; June 27.
Laboratory apparatus. E. W. Flosdorf. 2,163,996; June 27.
Ladder foot. F. White. 2,163,970; June 27.
Lamp: *See*—
Electric lamp.
Electric incandescent lamp.
Lamp connector. J. Wertzheiser. 2,163,902; June 27.
Lash adjuster, Hydraulic. P. E. Whalen. 2,163,969; June 27.
Last, Collapsible. E. Dietze. 2,164,054; June 27.
Latch: *See*—
Door latch.
Latching device. C. R. Williams. 2,164,027; June 27.
Launder apparatus, Mineral sorting. H. B. Slater. 2,164,124; June 27.
Lifting jack. H. Nilson. 22,163,959; June 27.
Lifting means for tractor-mounted implements. H. P. Smith. 2,164,224; June 27.
Lighter, Pocket. H. Maltner. 2,164,178; June 27.
Lighting device. L. F. Garlock. 2,163,673; June 27.
Lightning arrester and assembling. W. E. Mittelstadt. 2,163,697; June 27.
Liner construction. J. W. MacClatchie, G. D. Johnson, and C. A. Thies. 2,163,885; June 27.
Liner for drums, Protective. A. J. Moses and E. C. Chapman. 2,164,074; June 27.
Line-up, Interchangeable. O. Ivanek. 2,163,978; June 27.
Linking gauge. A. Standlee. 2,163,920; June 27.
Liquid dispensing apparatus. A. R. Bond. 2,163,772; June 27.
Liquid- dispensing apparatus. W. Dalton. 2,164,172; June 27.
Liquid fuel burner. E. C. Walker. 2,164,225; June 27.
Liquid level gauge. M. E. Hubbard. 2,164,243; June 27.
Listing machine. E. F. Britten, Jr. 2,164,227; June 27.
Lock: *See*—
Closure lock.
Lock. N. B. Hurd. 2,164,290; June 27.
Lock construction. K. H. Pond. 2,163,852–3; June 27.
Locker, Multiple. H. A. Forrer. 2,163,835; June 27.
Locomotive truck. J. C. Maris. 2,163,887; June 27.
Lubricating system. J. R. Mahan. 2,164,294; June 24.
Lubricator: *See*—
Multiple pressure lubricator.
Luminous tube sign. I. V. Mansell. 2,163,614; June 27.
Machine for dressing external cylindrical surfaces. A. M. Johnson and W. M. Fairbairn. 2,164,067; June 27.
Machine fo manufacturing shoes. A. Labrie. 2,163,688; June 27.
Machine for straightening and polishing rods and tubes. C. Didden. 2,163,669; June 27.
Machine to punch electric sign tape or the like. A. Zuckermann and A. J. E. Renard. 2,164,046; June 27.
Magnesium alloy, Copper chromium. F. R. Hensel and E. I. Larsen. 2,164,065; June 27.
Magnesium and its alloys, Treatment of. R. W. Buzzard. 2,163,583 June 27.
Magnesium oxychloride, Producing. F. Wienert. 2,163,819; June 27.
Magnesium, Recovery of. O. Meyer. 2,163,796; June 27.
Manifolding device. G. U. La Croix. 2,163,990; June 27.
Mat, Oil press. G. V. Sumner. 2,164,127; June 27.
Material for conserving moisture in soil. R. M. White. 2,163,860; June 27.
Material, Method and apparatus for rolling hot strip. F. Paul. 2,163,699; June 27.
Material, Process and apparatus for treating sheet. A. Wallach. 2,163,642; June 27.
Material treating and handling apparatus. J. D. Ferry. 2,163,977; June 27.
Materials, Process and apparatus for treating textile. J. Schlumpf. 2,163,634; June 27.
Materials with flowing liquids, Apparatus and method for treating granular. F. Jeremiassen. 2,164,111; June 27.
Matrix, mud balls, etc., Disintegration of. J. T. Bullwinkel. 2,164,052; June 27.
Mattress tufting machine. J. W. Droll and A. H. Olson. 2,163,780; June 27.
Mercury rectifier. C. W. Hansell. 2,163,785; June 27.
Metal hydroxides colloidally soluble in water, Production of. P. Stoewener. 2,163,922; June 27.
Metal, Method of and tool for shaping and ironing sheet. F. P. Stull. 2,163,715; June 27.
Meter: *See*—
Piston meter.
Milk bottle receptacle. H. P. Speer. 2,163,739; June 27.
Mixer: *See*—
Sweet feed mixer.
Modulation. G. L. Usselman. 2,163,719; June 27.
Modulation, Method of. W. Dillenburger. 2,163,939; June 27.
Molding, Method of. J. J. Mucher. 2,163,798; June 27.
Monorail. R. E. Nelles. 2,163,888; June 27.
Motor: *See*—
Electric motor. Hydraulic motor.
Motor vehicle. F. E. Dayes. 2,163,748; June 27.
Mounting for tractors, Implement. H. C. Buffington. 2,163,662; June 27.
Mounting for vehicles, Brake cylinder. B. Sugarman. 2,163,896; June 27.
Mouse trap. R. M. Pendry. 2,163,961; June 27.
Mullion fastening means. H. W. Cook. 2,163,831; June 27.
Multiple pressure lubricator. W. D. Hodson. 2,164,273; June 27.
Nitrogen-containing compounds, Preparing. A. W. Ralston and W. M. Selby. 2,164,284; June 27.
Nonskid device for automobile tires. J. C. Ryan. 2,163,890; June 27.
Nut, Insulated binding. F. C. Lavarack and B. Schlesinger. 2,164,017; June 27.
Oil and wax, Separating. V. N. Jenkins. 2,164,013; June 27.
Oil burner. C. A. and A. F. Reif. 2,163,915; June 27.
Oil, Compounded lubricating. G. L. Neely and F. W. Kavanagh. 2,163,622; June 27.
Oil emulsions, Separating the constituents of crude. H. Passler. 2,163,804; June 27.
Oil, Process and apparatus for distilling. H. L. Doherty. 2,164,132; June 27.
Oil product, Hydrogenated. L. G. Jenness. 2,164,291; June 27.
Oil, Treatment of oleo. H. S. Mitchell. 2,163,912; June 27.
Oils and gases, Conversion of hydrogen. W. E. Kuhn. 2,164,293; June 27.

Oiling attachment for saws. H. Gourley. 2,164,238; June 27.
Optical balance. P. Luteraan. 2,164,139; June 27.
Order, Traveler's protection. L. Deutsch. 2,163,777; June 27.
Organosodium compounds, Preparation of. A. A. Morton and I. Hechenbleikner. 2,163,846; June 27.
Oscillator, High frequency. F. B. Llewellyn. 2,163,756; June 27.
Oven. H. J. Bayer. 2,164,226; June 27.
Packing. W. J. Schwertfeger. 2,164,025; June 27.
Packing head, Oil well. F. and A. L. Stone. 2,163,813; June 27.
Paper from wheat, oat, or rye straw, Making. A. J. Marcham and N. Reynolds. 2,164,192; June 27.
Paper roll holder. H. Harvey. 2,164,064; June 27.
Parachute. J. H. Pool. 2,164,122; June 27.
Parachute apparatus. G. Waite and H. G. Rogers. 2,164,130; June 27.
Partition fabricating machine. D. R. Vail and C. G. Dauber. 2,163,923; June 27.
Pasteurizing apparatus, Electric. B. E. Getchell and J. C. R. Stone. 2,164,009; June 27.
Pectin, Preparing. P. B. Myers. 2,163,620–1; June 27.
Pedal, Auxiliary accelerator. A. L. Brock. 2,163,571; June 27.
Pencil, Mechanical lead. M. Schaefer. 2,164,166; June 27.
Percolator. J. Masin. 2,164,158; June 27.
Phosphate coatings on surfaces of iron, zinc, or alloys thereof, Producing. G. C. Romig. 2,164,042; June 27.
Phosphorus charging method and apparatus. J. R. Burns. 2,164,228; June 27.
Phosphorus pentoxide drier. W. O. Walker and W. R. Rinelli. 2,163,901; June 27.
Photoelectric engraving, Remote control. W. Howey, B. Woodward, and J. R. Hancock. 2,164,209; June 27.
Photographic developer. E. W. Lowe. 2,164,280; June 27.
Photographic developer. G. Wilmanns, W. Schneider, and A. Fröhlich. 2,163,820; June 27.
Photographic developing process. J. Eggert and B. Wendt. 2,163,781; June 27.
Photographic objective. M. Berek. 2,164,028; June 27.
Pickle slicing machine. C. G. Lang. 2,163,791; June 27.
Picture frame, Adjustable. M. Mandell and B. Schwartz. 2,164,299; June 27.
Pile, Protected bearing. G. G. Greulich. 2,164,108; June 27.
Pipe connection and support, Locomotive steam. J. C. Maris. 2,163,886; June 27.
Pipe hanger. S. P. Shea. 2,163,635; June 27.
Pipe wrench. L. Kuhn. 2,163,842; June 27.
Piston and connecting rod construction. J. P. Orris. 2,163,803; June 27.
Piston engine plant, Floating. H. Steiner. 2,163,767; June 27.
Piston meter. L. McCandless. 2,163,794; June 27.
Pistons and reactance combinations for radial piston pumps and motors. E. K. Benedek. 2,163,570; June 27.
Pitch propeller, Controllable. F. W. Caldwell. 2,163,663; June 27.
Plant foliage, Curing. M. R. Coe. 2,164,030; June 27.
Plant for the investigation of hydraulic machines. C. Keller. 2,164,000; June 27.
Plant-setting device. R. W. Oakley. 2,163,802; June 27.
Plaster base unit. W. J. Jordan, Jr. 2,164,069; June 27.
Plate, Fractionating. W. A. Peters, Jr. 2,164,080; June 27.
Platform or the like, Suspending and moving a. A. L. Medenwald. 2,164,128; June 27.
Plow. A. R. Coviello. 2,163,832; June 27.
Plow. W. T. Nash. 2,164,220; June 27.
Plug assembling machine, Electric connector. R. J. Turner. 2,163,716; June 27.
Polyamides, Preparation of. W. H. Carothers and G. D. Graves. 2,163,584; June 27.
Potassium iodide, Stabilizing. J. B. Shumaker. 2,164,089; June 27.
Power lighting system. K. Clark. 2,164,187; June 27.
Power outputs, Obtaining. H. Hähnle. 2,164,134; June 27.
Power transmission mechanism. J. E. Englund. 2,163,595; June 27.
Power transmission apparatus, Hydraulic. E. L. Durrell and M. T. Archer. 2,164,173; June 27.
Press: *See*—
Punching press. Spindle press.
Press and the like. V. W. Peterson and O. J. Maha. 2,163,627; June 27.
Printing element, Forming a. W. C. Huebner. 2,163,948; June 27.
Printing, Gravure. F. George. 2,164,270; June 27.
Program indicator. L. McGihon. 2,163,616; June 27.
Protective system for electric power transmission lines. P. Sporn and C. A. Muller. 2,164,182; June 27.
Protector: *See*—
Casing protector.
Pulp molding machine. M. P. Chaplin. 2,163,585; June 27.
Pump: *See*—
Jet air pump.
Pump. S. J. Baum. 2,164,103; June 27.
Pump or motor, Hydraulic. E. K. Benedek. 2,164,171; June 27.
Pump rod protecting assembly. H. W. Millmine. 2,164,159; June 27.
Punching press. G. F. Wales. 2,163,641; June 27.
Rack: *See*—
Dish-draining rack. Display rack.
Radiator core construction. E. C. Booth. 2,164,005; June 27.
Radio frequency filter. J. W. Conklin. 2,163,775; June 27.
Radio shielding means. M. F. Peters. 2,163,624; June 27.
Rake, Self-clearing. B. E. Dubbs. 2,164,233; June 27.
Range. F. H. Schneider. 2,164,147; June 27.
Rangefinder and like optical measuring instrument. J. W. French. 2,164,107; June 27.
Razor blade holder. J. C. Brown. 2,164,050; June 27.
Razor, Safety. T. Yoneta. 2,163,992; June 27.
Reaction products, Basic. H. A. Piggott and F. S. Statham. 2,163,807; June 27.
Reading machine. R. H. Draeger. 2,163,593; June 27.
Receiver, Frequency modulation. M. G. Crosby. 2,163,747; June 27.
Receiver, Portable radio. E. F. McDonald, Jr. 2,164,251; June 27.
Receptacle: *See*—
Milk bottle receptacle.
Receptacle. A. F. Wallbillich. 2,163,722; June 27.
Reel: *See*—
Fishing reel.
Refrigeration. A. R. Thomas. 2,163,815; June 27.
Refrigeration. H. M. Ullstrand and A. R. Thomas. 2,164,045; June 27.
Refrigeration control system. H. A. Phillips. 2,164,081; June 27.
Refrigeration system. H. W. Nevin. 2,163,799; June 27.
Refrigerator control. L. B. M. Buchanan. 2,163,744; June 27.
Refuse, Device for collecting. H. Linde. 2,163,844; June 27.
Regulating device for brakes, Automatic. P. Hallot. 2,163,731; June 27.
Remover for bottle closures. K. Knudsen. 2,164,191; June 27.
Resin, Phenolic. C. A. Thomas. 2,163,637; June 27.
Register machine, Autographic. M. B. Holmes and A. L. Rowland. 2,163,684; June 27.
Regulator: *See*—
Fluid flow regulator.
Ring: *See*—
Wool shrading ring.
Ring blank and making same, Finger. S. H. Garner. 2,164,060; June 27.
Rivets, Cutting and setting. F. F. Heller. 2,163,683; June 27.
Road strip. J. M. Paver. 2,163,960; June 27.
Rocking chair. W. S. Piper. 2,164,163; June 27.
Rod adapter, Draw. E. H. Wagner. 2,163,817; June 27.
Roofing granule, Colored. H. R. Gundlach. 2,163,678; June 27.
Roofing granules, Coloring. H. R. Gundlach and P. Teetor. 2,163,679; June 27.
Roofing, Sheet metal. M. L. Hunker. 2,163,840; June 27.
Room cooling outfit, Portable. A. J. Lichty. 2,163,691; June 27.
Rotation, Apparatus for controlling. H. A. Satterlee. 2,163,632; June 27.
Rubber or the like quickly into rubber hydrochloride, Converting natural. G. Mochizuki. 2,164,140; June 27.
Rubber process. T. L. Shepherd. 2,163,986; June 27.
Rubber strips, Method and apparatus for making. F. D. Fowler. 2,164,058; June 27.
Safety apparatus for motor vehicles. C. Stacey. 2,163,988; June 27.
Safety control, Automobile foot pedal. V. Pomernacki. 2,163,962; June 27.
Safety crossing device. F. S. Lalor and E. Allen. 2,163,980; June 27.
Safety device, Hydraulic. I. W. Higgins and H. L. Pickett. 2,164,272; June 27.
Sanding device for overhead cranes. W. A. Lintern. 2,163,953; June 27.
Sanding device for vehicles. J. B. Lintern. 2,163,911; June 27.
Sanitary continuous-flow article holder. F. Schultz. 2,164,258; June 27.
Sash or store front construction. C. D. Lowry. 2,163,845; June 27.
Scraper attachment for push brooms. W. E. Judson. 2,163,979; June 27.
Scraper for double pipe chillers. R. C. Fuller. 2,163,995; June 27.
Screen for Braun tubes, Image. E. Schwartz. 2,163,918; June 27.
Seal, Bag. W. M. Brooks. 2,163,660; June 27.
Seam, Flat. F. O. Lane. 2,164,036; June 27.
Seat construction. H. C. Flint. 2,163,751; June 27.
Seat folding device, Automatic. J. Lincoln. 2,164,116; June 27.
Selector switch. C. N. Hickman. 2,164,034; June 27.
Separation apparatus. D. M. Wright. 2,163,927; June 27.
Separator. H. W. How. 2,163,600; June 27.
Separator deck. L. F. McCleary and H. L. Hammond. 2,163,734; June 27.

Separator for self-priming pumps or the like. H. E. La Bour. 2,163,951; June 27.
Sewing machines, Device for cutting and clamping the needle thread of. J. J. Fincher. 2,163,994; June 27.
Shampoo fixture. J. Labruzzo. 2,163,755; June 27.
Sheet or signature feeding and gathering. P. E. Kleineberg, P. Schweizer, and A. W. Wilks. 2,163,732; June 27.
Sheet, Reduplicative. S. A. Neidich. 2,163,958; June 27.
Sheets to flat sheets, Method and apparatus for welding corrugated. C. de Ganahl and T. B. Lavelle. 2,163,590; June 27.
Shirt. R. O. Kennedy and R. A. Ziegler. 2,162,606; June 27.
Shirt board. O. B. Shepherd. 2,164,088; June 27.
Shirt hold-down device. R. A. Ziegler and F. Ferguson. 2,163,654; June 27.
Shoe, Planter. O. E. Holle. 2,164,066; June 27.
Shoes, Making cemented. C. Miller. 2,163,696; June 27.
Shoes, Method of and machine for manufacturing. A. Labrie. 2,163,689; June 27.
Shoes, Method of lasting. S. Cangemi. 2,163,664; June 27.
Shoulder ornament mounting means. P. A. Merrigan. 2,164,252; June 27.
Shovel attachment for tractor front wheels, Leveling. J. A. Heeren. 2,163,682; June 27.
Sifter and mixer device. L. J. Spencer. 2,163,766; June 27.
Sign: *See*—
House number sign. Luminous tube sign.
Slug casting machine. W. B. Ankarstran. 2,163,823; June 27.
Slug casting machine. W. L. Petersen. 2,163,848; June 27.
Slug casting machine, Typographical. C. A. Albrecht and H. Brandenburg. 2,163,821–2; June 27.
Smoke box arrangement. W. F. Kiesel, Jr. 2,163,690; June 27.
Snap fastener member. W. I. Jones. 2,164,014; June 27.
Snap-out pack. E. Z. Lewis. 2,164,298; June 27.
Sod cutter. R. Q. Kirkpatrick. 2,164,246; June 27.
Sound recording and reproducing system. O. M. Dunning. 2,163,671; June 27.
Speed control attachment for speedometers. P. H. Kolb. 2,164,113; June 27.
Speed control for motor vehicles. P. H. Kolb. 2,164,114; June 27.
Speed responsive switch. G. L. Kampa. 2,163,605; June 27.
Speed transmission, Variable. M. D. Rust. 2,164,086; June 27.
Spindle, Machine-tool. F. Turrettini. 2,164,129; June 27.
Spindle press. O. Kienzle. 2,164,245; June 27.
Split-belt connector, Sheet metal. B. Dibner and J. Rogoff. 2,164,006; June 27.
Spool construction. H. C. Howsam. 2,163,685; June 27.
Spring clip. F. W. Waterman, Jr. 2,164,264; June 27.
Spring suspension means, Pneumatic. J. E. Johnson. 2,164,068; June 27.
Spring terminal reinforcement. N. E. Hendrickson. 2,163,875; June 27.
Spring tightening means for window sash. J. W. Shriver and F. S. Hoover. 2,163,965; June 27.
Stairway, Moving. S. G. Margles. 2,163,693; June 27.
Stapler. E. L. Sibley. 2,164,260; June 27.
Starter, Engine. R. Chilton. 2,163,829; June 27.
Steering mechanism. R. S. Sanford and V. W. Kliesrath. 2,163,892; June 27.
Stem joint or safety catch, Combined attaching eye and pin. E. Morehouse. 2,164,018; June 27.
Stoker. C. W. Bros. 2,163,825; June 27.
Stoker, Underfeed. R. Zinkernagel and G. P. Jackson. 2,164,100; June 27.
Store interior construction. W. D. White. 2,163,861; June 27.
Stove. C. E. Parker. 2,164,078; June 27.
Stove. J. G. Wilson. 2,164,265; June 27.
Stove, Gaseous fuel. C. E. Parker. 2,164,079; June 27.
Strain, Apparatus for determining rate of. C. H. Gibbons. 2,163,873; June 27.
Strainer and packer setting device. C. C. Brown. 2,163,933; June 27.
Steam trap, Thermal expansion. G. R. Crowther and J. P. Goodman. 2,163,667; June 27.
Stirring device and tool. H. C. Mariner. 2,163,758; June 27.
Stock quotation projecting machine. E. J. Anderson. 2,163,575; June 27.
Stocking tension device. H. B. Shiflet. 2,164,180; June 27.
Strand handling apparatus. J. N. Selvig. 2,163,711; June 27.
Stud, Snap fastener. J. W. Dews. 2,164,053; June 27.
Style, Phonograph. J. M. Dean, Jr. 2,164,199; June 27.
Subsoiler. L. E. Pendell. 2,163,805; June 27.
Substances containing tantalum and niobium, Treatment of. J. P. Leemans. 2,164,279; June 27.
Subterranean structures, Building. H. Sheelhaase. 2,164,003; June 27.
Sub-top for refrigerating cabinets. L. Saha. 2,164,023; June 27.
Sugar, Manufacture of. R. J. Brown, A. R. Neese, and C. T. Carney. 2,164,186; June 27.
Sugarcane cutter. M. C. Lee. 2,164,249; June 27.
Sulphates, Manufacture of normal, secondary pentadecyl. J. H. Werntz. 2,163,651; June 27.
Support: *See*—
Arch support.
Support for accordions. A. J. Ver Bockel. 2,163,859; June 27.
Surveying instrument. A. N. Brunson. 2,164,051; June 27.
Swatter blade, Fly. J. A. Nickelsen. 2,163,761; June 27.
Sweet-feed mixer. T. H. Riza. 2,164,257; June 27.
Switch: *See*—
Disconnect switch. Selector switch.
Electric switch. Speed responsive switch.
Switch. D. T. Siegel. 2,163,919; June 27.
Switch controlling apparatus, Railway. C. M. Hines. 2,163,838; June 27.
Switch for scientific baths, Thermostatic. N. Morris. 2,164,282; June 27.
Swivel roller construction. H. N. Ekbom and E. Korensky. 2,163,729; June 27.
Synchronous machine, Method of and apparatus for accelerating and synchronizing a. D. H. Shoults. 2,164,181; June 27.
Tablet. B. Rapp and F. K. Russow. 2,163,629; June 27.
Tape and associating same with a welding wire, Flux carrying. H. C. Bereit. 2,164,104; June 27.
Telephone system. C. W. Halligan. 2,164,033; June 27.
Teletypewriter station. T. L. Corwin and J. L. Hysko. 2,163,668; June 27.
Television communication, Method and system for. T. T. Goldsmith, Jr. 2,164,176; June 27.
Television system. A. V. Bedford. 2,164,297; June 27.
Television system, Radial scanning. L. de Forest. 2,163,749; June 27.
Template. J. G. Dickson. 2,163,938; June 27.
Terminal prong, Electrical. A. M. Draving. 2,163,779; June 27.
Test light. O. Cooksey. 2,164,106; June 27.
Tester, Casing. F. F. Waltermire. 2,164,195; June 27.
Textiles and oils therefor, Treating. W. Garner. 2,164,235–7; June 27.
Thermostatic control. R. E. Newell. 2,163,801; June 27.
Thread transfer apparatus. A. Moessinger. 2,163,760; June 27.
Thread twisting apparatus. F. Honig. 2,163,789; June 27.
Threads or other products from cellulose compounds, Manufacture of artificial. L. Lilienfeld. 2,163,607; June 27.
Threading die. W. J. Hogg. 2,163,598; June 27.
Ticket dispensing machine. F. M. Jones. 2,163,754; June 27.
Ties from cast concrete, Extracting form. S. S. Colt. 2,164,031; June 27.
Tilling implement. A. C. Lindgren. 2,164,214; June 27.
Tire shaping tool, Locomotive and car wheel. M. Salnich. 2,163,738; June 27.
Tobacco, Apparatus for comminuting and classifying. O. E. Eissmann. 2,163,833; June 27.
Tool: *See*—
Electrician's tool. Tire shaping tool.
Tools, Backlash-eliminating mechanism for machine. F. S. Haas. 2,163,836; June 27.
Top for soaking pits, Removable. W. T. Dean. 2,163,727; June 27.
Torches, Prevention of explosions and backfire in. C. Mott. 2,164,295; June 27.
Tower footings, Setting. M. A. Pithoud. 2,163,808; June 27.
Toy and energizing method therefor, Powered. S. Vetro. 2,164,099; June 27.
Traffic controlling system, Railway. W. K. Howe. 2,163,881; June 27.
Traffic-signal controller. B. W. Jones. 2,164,177; June 27.
Transfer article. J. T. Humes. 2,163,601; June 27.
Transmission, Automatic. J. J. Drabin. 2,163,872; June 27.
Transmission system, High frequency. A. R. D'heedene. 2,163,750; June 27.
Transmissions, Device for the indication of radio. K. Nekolny. 2,164,161; June 27.
Trap: *See*—
Animal trap. Mouse trap.
Fish trap. Steam trap.
Tray, drawer, or the like. A. H. Bettenhausen. 2,163,931; June 27.
Tray, Ice. J. N. Saler. 2,163,705; June 27.
Treating apparatus. M. Vidaver. 2,163,816; June 27.
Trolley, Cable. J. A. Gibbons. 2,164,205; June 27.
Truck, Hydraulic lift. P. D. Germond. 2,163,675; June 27.
Tube: *See*—
Electron tube.
Tube coil unit, Multiple. C. N. Deverall. 2,163,591; June 27.
Tubes, Apparatus for folding over ends of paper. L. D. Pierce. 2,163,806; June 27.
Tubing, Method of and apparatus for making multipart. W. A. Black. 2,164,267; June 27.

Tumbler-handling apparatus. H. R. Schutz. 2,164,285; June 27.
Tuner, High frequency. P. Ware. 2,163,647; June 27.
Tuner, Inductive. P. Ware. 2,163,645; June 27.
Tuning circuit. P. Ware. 2,163,646; June 27.
Two-cycle engine. R. H. Schneider. 2,164,167; June 27.
Type bed and holder. E. C. Oliver. 2,164,162; June 27.
Type casting matrix. J. W. Quadt. 2,163,854; June 27.
Typewriter machine. W. F. Helmond. 2,163,943; June 27.
Typewriting machine. W. A. Dobson. 2,163,940–1; June 27.
Typewriting machine. W. F. Helmond. 2,163,944–5; June 27.
Typewriting machine. B. C. Stickney. 2,163,921; June 27.
Typewriting machine. R. G. Thompson. 2,163,968; June 27.
Umbrella. A. E. Henry. 2,164,242; June 27.
Undergarment, Lower. H. M. McDonald. 2,164,281; June 27.
Urea suitable for medicinal purposes, Symmetrical aromatic. A. Coulthard. 2,164,229; June 27.
Utensil. M. Latham. 2,163,733; June 27.
Vacuum cleaner. L. B. Salt. 2,164,002; June 27.
Valve: *See*—
Fluid control valve.
Valve cage for tank emergency valves, Detachable. W. Meyer and H. C. Krone. 2,164,039; June 27.
Valve. H. W. Nevin. 2,163,800; June 27.
Valves of engines, Control of the sleeve. M. J.-B. Barbarou. 2,163,929; June 27.
Variable inductance. P. Ware. 2,163,644; June 27.
Vehicle: *See*—
Motor vehicle.
Vehicle accessory. G. A. Lyon. 2,163,608; June 27.
Vehicle jack, Electrically driven. W. Müller. 2,163,735; June 27.
Vestee and scarf, Combination. G. L. Smith. 2,163,857; June 27.
Vitamin. A. G. Boer, J. van Niekerk, E. H. Reerink, and A. van Wijk. 2,163,659; June 27.
Voice operated repeater. E. C. Bertnolli and K. D. Cornell. 2,164,185; June 27.
Walking mechanism. J. W. Page. 2,164,120; June 27.
Wall construction, Building. F. M. Small. 2,164,261; June 27.
Wall furnace. J. S. Andrews. 2,163,928; June 27.
Washer for nuts of threaded bolts, Double safety. I. Guiducci. 2,164,109; June 27.
Water, Treatment of. O. Liebknecht. 2,164,156; June 27.
Wave transmitter, Short. W. Buschbeck. 2,163,582; June 27.
Weeding machine. O. H. Olson. 2,164,254; June 27.
Welding, Apparatus for. E. G. Biederman. 2,163,863; June 27.
Welding machine. E. E. Beckman. 2,163,657; June 27.
Welding machine. E. G. Beiderman. 2,163,930; June 27.
Well drilling indicator. R. H. Carr, W. M. Saxon, G. G. Hebard, and Y. Neal. 2,163,665; June 27.
Well point. T. F. Moore. 2,164,253; June 27.
Wells, Apparatus for cementing. J. W. Klomp. 2,164,190; June 27.
Wells, Method and apparatus for producing fluid from. A. L. Armentrout, and E. B. Hall. 2,164,266; June 27.
Wheel suspension and engine mounting, Rear. J. Tjaarda. 2,164,096; June 27.
Wheel suspension for motor vehicles, Rear. N. E. Lawrence. 2,163,981; June 27.
Winding machine. D. G. Baker and D. R. Gardner. 2,163,578; June 27.
Wing, Wind. W. J. Fuller. 2,164,059; June 27.
Wire netting machine. T. Rössler. 2,164,043; June 27.
Wool abraiding ring, Metallic. M. A. Stybr. 2,164,286; June 27.
Wool winder. R. G. Pluckrose. 2,164,145; June 27.
Woven fabric. G. J. J. Terrasse. 2,163,769; June 27.
Wrench: *See*—
Pipe wrench.

CLASSIFICATION OF PATENTS

ISSUED JUNE 27, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Notice—Attorney's Address

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Notice Regarding Payment of Fees

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Notices of Cancellation

U. S. Patent Office, *Washington, D. C., May 5, 1939.*

Walter A. Alderman, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Texas Citrus Fruit Growers Exchange, Mission, Tex., to effect the cancellation of trade-mark registration No. 212,023, issued April 20, 1926, to Walter A. Alderman, Thirteenth and B Streets, Sacramento, Calif., and a notice of such proceeding sent by registered mail to said Alderman at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Walter A. Alderman, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., May 15, 1939.*

Advance Neckwear Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Stetson Shirt Co., Inc., 1182 Broadway, New York, N. Y., to effect the cancellation of trade-mark registration No. 238,799, issued February 14, 1928, to Advance Neckwear Co., 37–39 East Twenty-first Street, New York, N. Y., and a notice of such proceeding sent by registered mail to said Advance Neckwear Co. having been returned by the post office as undeliverable, notice is hereby given that unless said Advance Neckwear Co., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., May 19, 1939.*

West Indies Fruit Importing Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Hawaiian Pineapple Company, Ltd., Iwelei Road, Honolulu, Territory of Hawaii, and 215 Market Street, San Francisco, Calif., to effect the cancellation of trade-mark registration No. 238,184, issued January 31, 1928, to West Indies Fruit Importing Company, 1425 South Racine Avenue, Chicago, Ill., and a notice of such proceeding sent by registered mail to said West Indies Fruit Importing Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said West Indies Fruit Importing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business May 20, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,023; Trade-Mark Division, 1,446. Oldest new case, Oct. 1, 1938; oldest amended, Aug. 15, 1938.)
(The dates given are 1938 except where † indicates 1937)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	†Dec. 16	†Dec. 21	741
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	†Dec. 19	†Dec. 10	624
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Mar. 15	Mar. 20	393
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Feb. 13	Feb. 1	429
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Mar. 2	Mar. 2	527
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	†Nov. 15	†Nov. 23	1138
5725	7. JARBOE, C. G., Optics; Photography	Feb. 6	Feb. 8	916
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 23	†Aug. 15	977
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Jan. 18	Jan. 17	682
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Jan. 31	Feb. 18	606
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Feb. 9	Feb. 9	450
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	†Dec. 5	†Nov. 25	575
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Dec. 12	†Dec. 9	670
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Mar. 9	Mar. 6	435
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 9	Jan. 5	1154
5716	16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 20	†Dec. 13	789
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Jan. 21	Jan. 23	470
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 9	†Dec. 5	545
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Feb. 20	Jan. 9	444
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Mar. 8	Mar. 7	318
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	†Dec. 30	Feb. 23	497
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Jan. 6	Jan. 6	829
7624	23. BUTTNER, W. J., Registers (part)	†Nov. 3	†Oct. 24	272
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Nov. 25	†Dec. 3	1027
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 15	Feb. 24	480
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 20	Jan. 18	608
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Nov. 15	†Oct. 18	1087
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 6	Feb. 6	490
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Jan. 10	647
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Dec. 13	†Dec. 12	860
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Feb. 20	Feb. 20	605
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Jan. 3	Jan. 19	409
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Feb. 11	Feb. 24	653
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Feb. 17	†Dec. 16	320
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Feb. 6	Feb. 2	568
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	†Dec. 17	Jan. 3	521
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Dec. 28	†Dec. 19	677
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	†Nov. 12	†Nov. 12	684
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 13	Feb. 14	541
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	†Dec. 20	†Dec. 20	1421
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	†Dec. 7	†Dec. 28	339
5882	42. CUTTING, H. O., Electric Signaling	†Nov. 5	†Oct. 21	628
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Feb. 1	Jan. 4	469
4087 B	44. HARVEY, L. P., Refrigeration	†Dec. 14	†Dec. 14	606
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Jan. 16	Jan. 21	591
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	†Dec. 30	†Dec. 30	655
6082	47. LOWE, E. R., Clutches; Brakes	Feb. 4	Feb. 8	406
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Feb. 23	Feb. 23	400
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	†Nov. 2	†Oct. 15	1011
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Nov. 25	†Nov. 26	1215
5628	51. BACKUS, C. D., Radiant Energy (part)	Feb. 18	Feb. 18	665
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Jan. 18	Jan. 9	903
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Feb. 7	Jan. 7	574
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Feb. 20	Feb. 23	292
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Oct. 1	†Oct. 6	767
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	†Dec. 12	†Dec. 12	1128
6613	57. NICOLSON, O. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Jan. 25	Jan. 28	449
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Feb. 2	Feb. 1	379
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Feb. 13	Feb. 21	572
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Jan. 18	Jan. 25	425
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	†Dec. 24	†Dec. 30	494
5621	62. PUGH, E. C., Games; Geometrical Instruments	Mar. 4	Mar. 11	417
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Jan. 17	Jan. 7	376
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Jan. 24	Jan. 24	865
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	†Dec. 5	†Dec. 27	604
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND (Trade-Marks	Apr. 20	Apr. 28	1348
	(Labels and Prints	May 8	May 15	98
2605	Designs: H. H. KALUPY	Apr. 3	Apr. 26	814

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

COLLINS *v.* OLSEN

No. 4,069. Decided March 6, 1939

[— F.(2) —]

1. INTERFERENCE—REDUCTION TO PRACTICE—SELF-SERVING DECLARATIONS NOT SUFFICIENT PROOF.

"We must conclude that statements in reports by Olsen, no matter how clear, as to what he used, what he did and what the results were, cannot be accepted as proof of reduction to practice, unless fully corroborated, even though such reports were made to an official who had such confidence in their accuracy that he was willing to act upon them without complete and independent investigation. While they constitute good evidence of conception, they are self-serving on the question of reduction to practice.

2. SAME—PRIORITY.

Evidence reviewed and *Held* that the junior party O, although the first to conceive, was the last to reduce to practice and was not diligent at the time of C's entry into the field, and that priority should have been awarded to the senior party C.

APPEAL from Patent Office. Reversed.

Messrs. Watson, Bristol, Johnson and Leavenworth (*Mr. Charles M. Thomas, Mr. James A. Hoffman* and *Mr. Clair V. Johnson* of counsel) for Collins.

Mr. Ralph H. Hudson and *Mr. William B. Kerkam* for Olsen.

BLAND, *J.*:

This is an appeal in a United States Patent Office interference proceeding which involves the application of William R. Collins, filed December 3, 1928, and assigned to Standard Brands, Inc., and an application of Aksel G. Olsen, filed December 3, 1929, and assigned to General Foods Corporation.

Standard Brands, Inc., through its subsidiary, Royal Baking Powder Co., manufactures and distributes "Royal Quick Setting Gelatin Dessert", while the Jell-O Company, a subsidiary of General Foods Corporation, produces and sells a gelatine product known as "Jell-O".

Both parties took testimony, and the appellee being the junior party, was required to prove by a preponderance of the evidence his priority of invention in the sole count in issue which had been suggested by the Primary Examiner and which reads as follows:

> In a jelly composition the combination of an edible mixture of sugar, gelatine and acid with a buffer salt comprising a salt of a strong base and a weak acid.

Concerning the invention involved and the state of the art existing at the time the parties made their respective inventions, the record discloses that prior to the invention here involved gelatine food mixtures dissolved in water and set in molds had been used for at least half a century. Prior to this invention, the commercial mixtures consisted of sugar, tartaric or citric acid, gelatine, flavor and color. This kind of mixture would usually set under ordinary conditions in three or four hours dependent upon the method used for cooling. When both parties entered the field and long prior thereto, the food industry was demanding a preparation which would set in a shorter period of time. The problem confronting the inventors was how to promote quick setting without injuriously affecting the edibility of the product. Where somewhat quicker setting was desired, greater amounts of gelatine were sometimes used, which often resulted in a tough, leathery product. Moreover, this treatment reduced the desirable acid content and in this way adversely affected the flavor of the mixture.

The invention in the instant case rests in the discovery that if a buffer salt of a strong base and a weak acid was added to a mixture of gelatine, sugar and acid, the mixture would always jell and the jelling action would take place in a much shorter time than possible under old methods, without adversely affecting the texture or flavor of the product. The edible salts used for buffer purposes were such as sodium bi-tartrate, ammonium citrate and certain phosphates. The buffer salt was added for the purpose of bringing about a buffer action in the mixture which action was the prevention of changes in hydrogen-ion concentration of acid or alkaline solutions. See "Chemical Encyclopaedia"—Kingzett, Fourth Edition, page 89.

The Examiner of Interferences awarded Olsen a conception date of at least as early as December 7, 1927, and held that he had constructively reduced the invention to practice by filing his application on December 3, 1929. He awarded to Collins a conception date of at least as early as October 8, 1928, and a date for constructively reducing the invention to practice of December 3, 1928, his application date. He held that since the record discloses that Olsen made no tests which involved ingestion or the consumption by a human being or some animal "whose digestive processes are known to closely parallel those of normal human beings, [etc]", he had not reduced the invention to practice prior to the conception date awarded to Collins; that Olsen was not diligent from the time Collins entered the field until he filed his application, and that, therefore, since Olsen, being the first to conceive but last to reduce to practice, was lacking in diligence at the critical period, priority of the invention was awarded to Collins. Upon appeal to the Board of Appeals, the Board did not review the evidence concerning the tests by Olsen but held that the Examiner was in error in holding that said ingestion test was necessary and stated on this phase of the case that:

> We believe, therefore, that the Olsen proof upon which the Examiner awarded conception as of November 1, 1927, may be relied upon to establish a reduction to practice. • • •

From the decision of the Board appellant has appealed here and urges first that, irrespective of the necessity of an ingestion test, appellee has pro-

duced no corroborative proof of any test being made meeting the requirements of the law; second, that the Examiner was correct in requiring that the ingestion test be applied to a food product which contained for the first time the use of a chemical substance, which though previously used in other foods was known to have certain undesirable physiological effects if used in certain quantities and under certain circumstances. Other questions were presented which, in view of our conclusion, we need not state or discuss here.

After carefully examining the record which consists of more than one thousand pages, we are of the opinion that the Board was in error in concluding that the Olsen proofs, upon which the Examiner awarded conception as of December 1, 1927, could be relied upon to establish a reduction to practice of the invention. In reviewing the record in order to ascertain if Olsen's proofs showed a proper reduction to practice of the invention, without giving consideration to the question involved relating to the ingestion tests, we do not have the advantage of a discussion by either tribunal of the Patent Office of the testimony and the numerous documentary exhibits introduced.

We agree with both tribunals that Olsen was properly awarded a conception date of the invention of the count as early as December 7, 1927, which was nearly two years prior to his constructive reduction to practice on December 3, 1929. Collins' conception date, October 8, 1928, although an earlier one is claimed (which is immaterial, being subsequent to the date properly awarded Olsen) is not seriously questioned by anyone, and the reduction to practice date relied upon by him is his filing date—December 3, 1928. It follows that if Olsen, although first to conceive, did not show a reduction to practice of the invention prior to the date of Collins' conception, or did not show diligence in perfecting the invention from a period just prior to the date when Collins entered the field to the date of reduction to practice, he cannot, upon the instant record, be awarded priority.

Although appellee contends that testing as to setting time was all that was required for the completion of his reduction to practice, it is too clear to require extended discussion that the invention of the count could not be said to have been reduced to practice when the facts relating to setting time alone were ascertained, because the material might set quickly and be inedible. Different proportions of the ingredients had to be tried out. The resulting product could not be said to be edible or to possess utility if its texture was so leathery or its tart flavor so far reduced that it was not satisfactory as a food. We think the record shows that in order to determine its edibility, it had to be tasted for the purpose of determining its texture and flavor. Moreover, since the object of the invention was to reduce the setting time without affecting its taste and edibility, it was very important to test it as to setting time. Without regard to an ingestion test, we think at least four things should have been ascertained by proper tests—first, did the addition of the buffer salts change the taste of the article so as to make it inedible; second, did it reduce the acidity of the preparation so as to destroy the desirable tart taste; third, was the texture of the gelatine substance rendered leathery or otherwise; and fourth, was the setting time of the gelatine mixture substantially reduced by the addition of the buffer salts.

In order that the Olsen evidence be understood, it is necessary to give a somewhat detailed picture of the background and conditions under which Doctor Olsen worked. He was employed in the Battle Creek, Mich., laboratories, in the research department of General Foods Corporation. Doctor Fine was Olsen's superior officer and is one of the two witnesses whose testimony is relied upon for corroboration of Olsen's testimony. Mr. Ferguson, the other witness whose testimony is relied upon for corroboration of Olsen's testimony, was chief chemist of the Jell-O Company, located at Le Roy, N. Y. Much testimony was introduced showing the experiments made by Olsen during a period beginning as early as November, 1927, and continuing (except as is hereinafter stated) until the end of 1929. He made out and submitted to Doctor Fine reports showing his experiments with different proportions of the ingredients of the gelatine mixture which included the buffer salts, which reports also showed the results of said experiments. Doctor Fine, in turn, submitted the reports to the chief chemist, Ferguson, at Le Roy, N. Y. Some effort is made by appellee to here substantiate the claim that Doctor Fine's testimony corroborates that of Doctor Olsen on the subject of reduction to practice. We will not unnecessarily extend this opinion by detailing all the reports made by Olsen and the subsequent action of Fine with relation thereto, but it is sufficient to say that there is nothing in the record to show that Fine at any time participated with Olsen in making any of the experiments or in doing any of the actual work, although it is disclosed by the testimony that Olsen did show Fine his results and that Fine said that Olsen "frequently demonstrated his experiments" and was generally familiar with the tests made. What was accomplished by the experiments is not stated by Fine. There is nothing to show that these experiments had to do with a substance that would conform to the count, nor is there anything to show that Fine was personally acquainted with what was accomplished by the experiments.

Fine also testified that two samples which had been forwarded by Ferguson to Olsen were tested and that one of these samples had a shorter setting time than the other. He stated this fact from his recollection. Whether he obtained his information from the reports, or from actually seeing the operation and noting the time of setting is not disclosed. Moreover, in testifying on this subject he recalled that a second series was requested, according to his recollection, because the first series,

the one which he stated showed a shorter setting time, was not satisfactory—

"did not give quite the improvement in setting time that was expected, and Olsen had an explanation for it which was passed on to Ferguson."

This is far from proving that Olsen made a satisfactory test which resulted in ascertaining that the new product was satisfactory in respect to the qualities heretofore referred to. The record does not show that Fine at any time in the presence of Olsen or elsewhere ascertained that the experiments of Olsen, while using his formula set out in his reports, resulted in producing such an edible product as is defined by the count. He said:

I have a rather general recollection of these tasting tests. I don't remember whether I participated in the tasting tests or not.

He did not say that he saw Olsen give the material a tasting test, nor did he say anything about the results which he ascertained from any test made by anybody (as distinguished from seeing the reports). Nothing in the record discloses that he gave the material any kind of test nor does the record show that he saw Olsen give the mixture the Bloom test to determine the gelatine content or the pH test to show the effect of the buffer salt on the acidity of the mixture or any test intended to ascertain the texture of the new product.

The record as a whole discloses that Fine was interested in the experiments which Olsen was making. Since Fine, as Olsen's superior, was responsible for Olsen's work, his interest was a natural one. It was Fine's aim through Olsen to solve the problem confronting the industry. He accepted Olsen's reports and his conclusions as to the results and forwarded them to the Jell-O Company for further consideration. These reports when received by Ferguson in New York, the testimony shows, were received with great interest. The value of the claimed improvement (if perfected) was fully appreciated. The record definitely shows that Ferguson was never present in the Battle Creek laboratories when any experiments or tests with reference to the invention were being made. His information concerning what Olsen had done and the tests which Olsen had made in 1927 and 1928 came to him by way of reports submitted by Fine.

Some attempt was made to show that Ferguson applied tests to the product produced in accordance with the reports, experiments and tests made by Olsen. The evidence in this regard chiefly relied upon is in the form of letters and other documents which passed between the parties in the due course of mail, supplemented, in some respects, by the testimony of Ferguson. This is so fragmentary and indefinite that from it we cannot conclude that Olsen's clear conception and definite disclosure was ever fully tested by anyone but Olsen, and the record affords no evidence of anyone satisfactorily verifying the tests which were made by Olsen.

[1] We must conclude that statements in reports by Olsen, no matter how clear, as to what he used, what he did and what the results were, cannot be accepted as proof of reduction to practice, unless fully corroborated, even though such reports were made to an official who had such confidence in their accuracy that he was willing to act upon them without complete and independent investigation. While they constitute good evidence of conception, they are self-serving on the question of reduction to practice. See *Petrie* v. *De Schweinitz*, 19 App. D. C. 386, 99 O. G. 1387; *Sundberg et al.* v. *Schmitt*, 58 App. D. C. 292, 29 F.(2d) 880, 379 O. G. 441; *Fausek et al.* v. *Vincent*, 25 C. C. P. A. (Patents) 770, 92 F.(2d) 909, 488 O. G. 3; *Janette* v. *Folds et al.*, 17 C. C. P. A. (Patents) 879, 38 F.(2d) 361, 395 O. G. 1136; *Rolfe* v. *Hoffman*, 1905 C. D. 356; *Daggett* v. *Kaufman*, 33 App. D. C. 450, 145 O. G. 1024; and *Robinson* v. *Thresher*, 28 App. D. C. 22, 123 O. G. 2976.

Ferguson testified to a letter he wrote to Fine in 1928 in which he stated:

• • • However, we can confirm your observations with respect to .3 grams sodium citrate and .75 grams sodium phosphate (mixture of mono- and di-salts) as not affecting the taste.

Nothing is stated here which definitely establishes what other ingredients were used or the quantities of the same. It may be suggested that since this letter was one answering that of Doctor Fine which probably contained one of Olsen's reports, this statement of result which ensued from the tasting by Ferguson was based upon the ingredients and the proportions of the same as reported by Olsen. It is obvious that this statement and certain other statements are not sufficient in themselves to warrant the conclusion that Olsen has proved by corroborating witnesses that proper and satisfactory tests of the mixture were made and this is especially true in view of considerations to which we will later herein advert. Ferguson stated that he had no other record of the tests except that letter and that the statement relating to taste in the record was based upon tasting tests made by him, and that:

They were made by adding the respective amounts of each of the buffers to Jell-O solution; that is, taking regular Jell-O, dissolving it in water, dividing it into halves and adding the buffer to one-half so that conditions were all identical with the exception of the buffer, and then tasting the two after setting them up.

Nothing was said in the letter or in this part of the testimony with respect to tests being made to ascertain the other essential qualities of the mixture. He later stated that he received a letter from Doctor Fine requesting him to:

Run a batch the usual way and a batch containing per package 0.75 gram of a mixture of equal parts of mono- and di-sodium phosphates. For each batch there will be used the same gelatin blend. From each finished mix will be selected at random, or perhaps rather so selected as to be most truly representative of the entire mix, 12 packages, 6 of which will be sent to us and 6 retained by you.

Pursuant thereto, in February, 1928, Ferguson prepared a batch which he called a "pilot plant operation" which he defined as being a halfway step toward factory operation. He weighed in the proper amount of ingredients which were the same as those "used in the regular gelatin formula". He added 0.75 gram per package of buffer salt.

He made this batch up into twelve packages. He sent to Doctor Fine six packages marked "R" representing the regular run and six packages marked "S" which contained the phosphate buffer mixture. In connection with transmitting the said twelve packages he stated that "we" had not yet made any setting time determinations but that gelometer readings to determine the gelatine consistency of the batch had been taken. Some reference was made to the Bloom test which is similar to the gelometer test relating to the determination of the gelatine character of the article. The record contains no evidence that Ferguson at any time made a test for setting time or that he saw anyone else make such tests. Evidently he relied entirely upon the tests in this regard which had been made by Olsen. The following is quoted from his testimony:

Q. 142. At the bottom of page 89, there is a reference which reads, "Also note relative setting times." Did you make any setting time determinations on these mixtures?

A. No, that was a note I made regarding an experiment which I could not carry out.

Q. 143. Please refer to the two lines written immediately following the table on page 90 and state what they refer to.

A. I was not so much interested in setting times here as in finding out the value in money terms of the phosphate buffer. I was, of course, interested in this phase of the subject and on page 90 I remembered that I did fill some test tubes with each of the above at 11:30. I evidently got hungry and that is the end of that.

The record discloses that Mr. Ferguson had many duties to perform as chief chemist for the Jell-O Company and he states in substance that during the critical period his work was so great that there was plenty of work for two men. The following questions and answers show the conditions which existed in the Jell-O plant at New York during the critical period:

Q. 151. In connection with the production of Jell-O what were your routine duties?

A. We had to keep a close control on the gelatin both as to testing reference standards upon which purchases were continually being made, and then we had to check up the deliveries against the reference standards. During this time we were quite often involved in differences of opinion between ourselves and gelatin manufacturers as to the deliveries, and this took considerable time. Then, in connection with Jell-O, there was the close control of the quality of the tartaric acid and the raw materials for the colors and the flavors; also under my supervision was and is the preparation of the vegetable colors used in Jell-O. I think we are the only gelatin dessert firm that makes our own colors. Then we had as other products Jell-O Ice Cream Powder and D-Zerta, a line of cream desserts which, if I remember rightly, had been introduced, and a chocolate pudding powder. There was plenty of work for two men.

Other duties and responsibilities were also testified to.

It is sufficient to say that the Ferguson testimony does not disclose that he or anyone under his direction, unless it was Olsen, by his activities which have heretofore been referred to, made any proper and complete tests, in which satisfactory results were obtained, of a mixture such as defined in the count.

Our conclusion that no reduction to practice by Olsen, such as the law requires, is disclosed in the instant record, is confirmed by a consideration of events and circumstances which happened subsequent to the time when Olsen claimed the invention was reduced to practice. Experiments with the mixture continued long after Collins entered the field. Collins' cross-exhibit W, dated Le Roy, N. Y., April 12, 1929, is a letter, initiated by L. R. Ferguson and addressed to Doctor Fine. In it he states, in substance, that he had been trying to duplicate the results of the experiments that had been reported to him and that he had so far been unsuccessful. He referred to the fact that he had failed to get a decrease in setting time, stated that it might be on account of the kind of water used, inquired as to the temperature at which certain determinations were made, and promised to send Doctor Fine one-half of a new blend and work on the other half himself. In the light of his reference to the different kinds of tests given the product in 1929 it seems strange that the same witness while testifying would not have more definitely described the character of the tests he referred to in his testimony.

It must be further remembered that it was nearly two years after Olsen's conception before any application for a patent was filed. It is contended by appellant that Olsen's assignee never went into production of a product responding to the counts until late 1935. Before the Board it was argued by appellant that the doctrine of *Mason* v. *Hepburn*, 13 App. D. C. 86, 84 O. G. 147, applied to Olsen. Olsen in his brief points out that Ferguson testified that commercial production was started in January 1930. Ferguson stated that the goods which then were sold were prepared for the institution trade. The party Collins has introduced into the record a number of statements made by Olsen's assignee, in the way of advertisements and on Jell-O packages, which suggest that as late as two or three years after Olsen had filed his application the Jell-O Company was not engaged in meeting the competition of other concerns by the advertisement and sale of merchandise produced in accordance with the teachings of the patent application. It was at this late date frequently stated by the Jell-O concern that the secret of their quick-setting gelatine rested in the use of warm water instead of hot water. One of the exhibits introduced by Collins, No. 69, is an article in the December 1932 issue of the "Tide" magazine which contains a release from the publicity department of the General Foods Corporation and states:

For more than a year the quicker-setting boasts of Royal and others went unchallenged. During that year chemists were working in General Foods Laboratories, experimenting with smaller crystals, new processes of manufacture. Last month General Food's Jell-O answered its competitors. • • •

Other exhibits indicate to some extent, we think, that Olsen's assignee never sufficiently ascertained the good results flowing from Olsen's disclosure to justify its engaging in a large-scale commercial production of the product defined by the count until competition from appellant's assignee and others required it to do so, which it began in earnest in 1935, after it knew of Collins' accomplishment. (Collins' commercial production started in 1929.)

[2] Now, of course, these acts and circumstances above detailed which occurred subsequent to the filing of the Olsen application would be irrelevant and of no value in event the record disclosed that the appellee had completely reduced his invention to practice as he claims. But it is our view that since the instant record does not show with sufficient clearness that there was a reduction to practice by Olsen such as was required by law until his filing date, the conduct of Olsen and his assignee became important in the consideration of the question. In *Bennett* v. *Fitzgerald*, 18 C. C. P. A. (Patents) 1201, 48 F.(2d) 917, 410 O. G. 1063, where the question of reduction to practice depended upon the demonstration of the practicability of the device involved and was in considerable doubt, this court said:

Of course, if reduction to practice is established, other circumstances or conduct of a party would not warrant us in making a contrary finding; but if reduction to practice is not clearly established, the facts and circumstances shown by the record may be resorted to for the purpose of determining whether there was in fact a reduction to practice, or whether the alleged reduction to practice was only an abandoned experiment.

The Examiner of Interferences held, and we think correctly, that Olsen was not diligent immediately prior to and upon the date when Collins conceived the invention. The Board, having held that Olsen's evidence proving conception also proved reduction to practice, did not pass upon this question. There is no dispute concerning the facts relating to diligence shown by the record. They are concisely stated in detail by the Examiner of Interferences and in summing up he made the following findings:

• • • During the critical period, however, Olsen was not diligent, since just prior to October when Collins conceived—, Olsen was either engaged in activities relating to his personal educational attainments, or else was working on some other problem unrelated to the subject matter in issue. This lack of reasonable diligence during the critical period is fatal to Olsen's claim to priority and clearly entitles Collins, as the first to reduce to practice, to the award of priority.

The Examiner of Interferences pointed out that completing his college work by Olsen was not necessary to the completion of his invention and that such work as he did upon his return during the critical period was not upon the invention involved but that all his efforts during any portion of the critical period were in investigating competing brands of gelatine desserts—

"to determine the influence of acidity and gelatine contents upon the setting time • • • which was preliminary to later investigations in which buffer salts were added to various gelatine dessert mixtures."

The record amply supports the finding of the Examiner.

For the reasons hereinbefore stated, we are of the opinion that the Board erred in awarding priority to the junior party Olsen, and its decision so doing is reversed and priority of invention in the involved matter is awarded to the senior party Collins.

Reversed.

U. S. Court of Customs and Patent Appeals

GOTHAM SILK HOSIERY CO. INC. *v.* THE NARROW FABRIC COMPANY

No. 4,047. Decided March 6, 1939

[102 F.(2d) 407]

TRADE-MARKS—CANCELLATION—LIKELIHOOD OF CONFUSION.

Trade-mark consisting of a gold-colored zig-zag line appearing across the entire width of narrow elastic fabric *Held* not confusingly similar to trade-mark comprising a golden colored stripe near the top of a stocking, owned by petitioner for cancellation.

APPEAL from Patent Office. Affirmed.

BLAND, *J.*, dissenting.

Messrs. Darby and Darby (*Mr. Louis D. Fletcher* of counsel) for Gotham Silk Hosiery Co. Inc.

Messrs. Howson and Howson (*Mr. A. E. Ischinger* and *Mr. Kennard N. Ware* of counsel) for The Narrow Fabric Company.

JACKSON, *J.*:

This is an appeal, in a trade-mark cancellation proceeding, from a decision of the Commissioner of Patents affirming that of the Examiner of Interferences dismissing appellant's petition for cancellation of the registered trade-mark of appellee.

The sole issue raised by the appeal is whether or not the Commissioner of Patents erred in ruling that there was no likelihood of confusion resulting from the use of the trade-marks in issue on the respective goods of the parties. The registered trade-mark of appellee consists of a gold-colored zig-zag line appearing across the entire width of narrow elastic fabric. The trade-mark of appellant is a golden colored stripe near the top of a stocking.

Appellant has two registered trade-marks. One consists of the words "Gold Stripe", registered June 10, 1913. The other consists of a gold colored stripe near the top of a stocking, registered February 18, 1913. Both trade-marks were renewed at the end of the statutory period.

Both parties took testimony. The evidence shows that appellant is exclusively a hosiery manufacturer. It has been making and selling hosiery since 1913, using the trade-marks indicated above. Its stockings go to the ultimate consumer, in its own box, through sale in the hosiery departments of retail stores. The toe of every stocking carries the words "Gold Stripe" and a gold colored stripe is woven around the circumference near the top of the stocking. "Gold Stripe" is also printed on the boxes containing appellant's merchandise and on bands which bind the stockings together.

The record further shows that the sole business of appellee is the manufacture of narrow fabrics, a portion of which are elastic. The zig-zag strand is used only in the solid elastic fabrics. The record also discloses that this elastic fabric sold to manufacturers for use in the construction of so-called "foundation garments", underwear, brassières, and the like is not seen by the ultimate consumer when used in this connection. About a third of appellee's sales are made to department stores through whole-

sale dealers and these stores sell the narrow elastic fabric for replacements in the above-mentioned garments. Furthermore, the elastic fabric manufactured by appellee, to which its trade-mark is applied, according to the uncontradicted testimony of appellee, is not fit to be incorporated into the stockings of appellant because of its physical properties, that is, it has too strong a tension to be comfortable on the leg, and the narrowness of the fabric would not be conducive to ease in wearing.

We are of opinion, after a careful consideration of the record, that the Commissioner of Patents was correct in holding that there was no likelihood of confusion between the respective trade-marks of appellant and appellee. We base our decision upon the following grounds: 1. The trade-marks are applied to radically different goods. 2. There is no evidence upon which likelihood of confusion of origin can be reasonably predicated.

1. Although both the merchandise of appellant and appellee are designed for use as part of women's wearing apparel, nevertheless, there are such fundamental distinctions between the goods involved that there is no likelihood of confusion arising in the mind of the ultimate consumer. An examination of the exhibits of appellant reveals that the elastic fabric used at the top of the knee-length stocking is highly ornamental, with comparatively little tension and broad enough to allow the stockings to be held in place with little, if any, discomfort. On the other hand, the elastic fabric of appellee, which bears its trade-mark, is narrow, strong in tension and obviously designed for other purposes than to hold up stockings.

The narrow elastic fabric, used principally in such garments as brassières and other underwear, is not closely related in use to the relatively broad and ornamental type of elastic fabric used with silk stockings, and, furthermore, the record clearly discloses that the merchandise of the parties is not so closely related in the minds of the ultimate consumers as to constitute likelihood of confusion as to origin.

2. The trade-mark of appellee—

"is a technical mark and consists only in a narrow zigzag line formed by a gold colored strand on an elastic tape."

The tape thus marked is not used in stockings. In most of its sales by the manner in which the goods are used it will not even be seen. In the case of sales for replacements, where the trade-mark of appellee is visible, an examination of the exhibits of the respective parties discloses such a difference that we believe there is no likelihood of confusion as to origin.

The fabric of appellee, to which its trade-mark is applied, has never been used in stockings. If it were to be so used it would have to be substantially changed.

The goods of the respective parties probably belong to the same broad class in that they both pertain to women's apparel and in that respect may be said to be of the same descriptive properties. They are not identical, however, and when this fact is considered in connection with the clear difference in the marks we can see no reason to disagree with the decision of the Commissioner of Patents. *Skram Co.* v. *Bayer Co., Inc.*, 23 C. C. P. A. (Patents) 1049, 82 F.(2d) 615, 471 O. G. 249.

We are of opinion that the Commissioner of Patents was correct in holding that there was no likelihood of confusion resulting from a use of the respective trade-marks of the parties, and for the reasons set forth herein the decision of the Commissioner of Patents is affirmed.

Affirmed.

BLAND, *J.* (dissenting):

I am in disagreement with the majority that there is no likelihood of confusion by the concurrent use of the two marks upon the respective goods of the parties. The marks are confusingly similar and the goods are of the same descriptive properties. There is a direct relationship shown by the record between the narrow elastic fabrics and stockings. This matter is not referred to in the opinion. The appellee advertises that it manufactures a narrow elastic fabric for use in certain kinds of stockings and shows how it is used, and the mere fact that it did not advertise the fabric with the stripe in it for use on stockings, to my mind, does not justify leaving this matter out of consideration.

Appellee's witness conceded that certain of its elastic fabrics could be used in appellant's stockings. If the fabric containing the stripe is used in stockings, surely it could not be contended that there was no likelihood of confusion as to the origin of the fabric. A gold stripe elastic fabric in appellant's gold stripe stockings would surely suggest to some purchasers that there was a common origin for both articles.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,320,384. (See 1,647,753.)

1,335,394, F. J. Rustige, Fire extinguisher; 1,760,274, H. R. Minor, same, D. C., W. D. N. Y., Doc. 1839, *Walter Kidde & Co., Inc.*, v. *Beacon Devices, Inc.* Dismissed for lack of prosecution, without prejudice Nov. 9, 1938.

1,480,014. (See 1,647,753.)

1,503,657, P. M. McHugh, Process of manufacturing sugar; 1,686,203, H. S. Coe, Thickening apparatus, filed Mar. 7, 1939, D. C., E. D. La. (New Orleans), Doc. 24, *The Dorr Co., Inc., et al.* v. *Poplar Grove Planting & Refining Co., Inc.*

1,539,810, R. T. Gillette, Welding electrodes; 1,552,184, N. D. Adams, Metal composition and method of manufacture; 1,848,437, Sieger & Weiger, Metal alloy, D. C., E. D. Mich. (Detroit), Doc. 6406, *General Electric Co. et al.* v. *G. N. Sieger et al.* Consent decree granting injunction Mar. 4, 1939.

1,541,212, E. P. Harley, Cool cushion and seat; 1,541,213, same, Seat cushion, C. C. A., 8th Cir., Doc. 11,144, *Kool Kooshion Mfg. Co.* v. *Mitchell Mfg. Co.* Decree of lower court affirmed Feb. 27, 1939.

1,541,213. (See 1,541,212.) 1,552,184. (See 1,539,810.)

1,605,993, A. N. Spanel, Renovating device; 1,817,530, same, Means for treating articles; 1,817,534, same, Device for treating articles; 1,817,531, same, Method of treating articles; 1,817,533, 1,817,532, same, Treating means for fabrics, filed Mar. 7, 1939, D. C., S. D. N. Y., Doc. 2/485, *A. N. Spanel et al.* v. *Rexair, Inc., et al.*

1,647,753, Scott & Wallenseik, Drill cutter; 1,320,384, Godbold & Fletcher, same; 1,480,014, F. L. Scott, Self-cleaning roller drill; 2,011,084, same, Mounting for drill cutters; 1,905,079, Wallensiek & Smith, Jr., Roller cutter retaining device; 1,856,627, H. W. Fletcher, Cutter for earth boring drills; 1,983,283, L. E. Garfield, Bearing for drill cutters; 2,030,442, Garfield & Scott, Roller bearing bit, D. C., N. D. Tex. (Fort Worth), Doc. E 823, *Hughes Tool Co.* v. *United Machine Co. et al.* Patent 1,320,384 withdrawn from suit. Patents held infringed, injunction Dec. 20, 1938.

1,655,481, D. L. Van Lenven, Running gear; 1,926,727, G. L. Knox, Six wheel attachment for motor vehicles, filed Mar. 2, 1939, D. C., S. D. Calif., C. Div., Doc. 262-H, *Six Wheel Corp. et al.* v. *C. E. Cook et al.*

1,686,203. (See 1,503,657.)

1,690,109, R. A. Gross, Collapsible box; 1,758,510, same, Paper box; 1,940,213, same, Knockdown paper box with cover, filed Feb. 27, 1939, C. C. A., 8th Cir., Doc. 11,443, *Simplex Paper Box Corp. et al.* v. *Rosenthal Paper Co.*

1,758,510. (See 1,690,109.) 1,760,274. (See 1,335,394.)

1,773,438, F. J. Rode, Press for drawing sheet metal; 1,773,439, same, Cushioning device for drawing presses, filed Mar. 10, 1939, D. C., N. D. Ohio, E. Div., Doc. 19,757, *E. W. Bliss Co. et al.* v. *The Cleveland Punch & Shear Works Co.*

1,773,439. (See 1,773,438.) 1,817,530. (See 1,605,993.)

1,817,531. (See 1,605,993.) 1,817,532. (See 1,605,993.)

1,817,533. (See 1,605,993.) 1,817,534. (See 1,605,993.)

1,848,437. (See 1,539,810.) 1,856,627. (See 1,647,753.)

1,880,192, 1,963,348, 1,963,349, E. E. Boyce, Sewing machine; 1,984,772, W. C. Stewart, Combined looper and loop cutting attachment for sewing machines, D. C., N. D. Ga. (Rome), Doc. E 136, *The Boysell Co.* v. *Georgia Chenille, Inc.* Injunction against defendant Feb. 11, 1939. Doc. E 141, *The Boysell Co.* v. *Empire Tufting Co.* Decree as above Dec. 17, 1938. Doc. 143, *The Boysell Co.* v. *Gordo Bedspreads, Inc.* Decree as above Mar. 8, 1939. Doc. 263, *The Boysell Co.* v. *F. E. Evans.* Decree as above. Same, filed Mar. 7, 1939, D. C., N. D. Ga. (Rome), Doc. 286, *The Boysell Co.* v. *J. P. Malone et al.* (*Harper Mfg. Co.*).

1,895,568, Curtin & Kline, Rust proofing iron and steel articles; 1,895,569, same, production of protective coatings on iron and steel articles, C. C. A., 2d Cir., Doc. —, *Parker Rust-Proof Co. et al* v. *The Western Union Telegraph Co. et al.* Decree reversed (notice Mar. 10, 1939).

1,895,569. (See 1,895,568.)

1,905,079. (See 1,647,753.) 1,926,727. (See 1,655,481.)

1,940,213. (See 1,690,109.)

1,945,734, H. R. Culmer, Door locks and framing; 2,060,283, same, Elevator car control, C. C. A., 2d Cir., Doc. —, *Elevator Appliance Co., Inc., et al.* v. *E. Brooks.* Decree modified (notice Mar. 10, 1939).

1,957,596, J. W. Isett, Method of repairing, widening, and resurfacing concrete roads; 2,039,420, same, Method of constructing, repairing, and widening concrete roads, D. C., N. D. Ohio, W. Div., Doc. E 1599, *J. W. Isett et al.* v. *Modern Construction Co.* Dismissed without prejudice Mar. 8, 1939.

1,963,348. (See 1,880,192.) 1,963,349. (See 1,880,192.)

1,983,283. (See 1,647,753.) 1,984,772. (See 1,880,192.)

2,002,812, J. Hansen, Method of producing cutter blades for slicing machines; 2,082,832, same, Machine for producing and re-sharpening cutter blades, filed Mar. 3, 1939, D. C., S. D. Iowa (Davenport), Doc. —, *J. Hansen* v. *H. C. Simmons et al.*

2,011,084. (See 1,647,753.)

2,018,584. (See Re. 18,513.)

2,030,442. (See 1,647,753.) 2,039,420. (See 1,957,596.)

2,060,283. (See 1,945,734.) 2,082,832. (See 2,002,812.)

2,143,677, R. H. Bradwell, Tufting machine; 2,143,679, 2,143,678, Baggett & Gordon, same, filed Mar. 7, 1939, D. C., N. D. Ga. (Rome), Doc. 287, *Polly Prentiss, Inc., et al.* v. *F. R. Prater Co. et al.* Doc. 288, *Polly Prentiss, Inc., et al.* v. *Mountain Craft Co., Inc.* Doc. 289, *Polly Prentiss, Inc., et al.* v. *Georgia Textile Corp.* Doc. 290, *Polly Prentiss, Inc., et al.* v. *Calhoun Chenille Corp. et al.*

2,143,678. (See 2,143,677.) 2,143,679. (See 2,143,677.)

Re. 18,513, F. H. Watson, Pneumatic inner tube and valve stem; 2,018,584, same, Valve stem, D. C., N. D. Ohio, E. Div., Doc. 5665, *Jenkins Bros.* v. *The B. F. Goodrich Co.* Dismissed (notice Mar. 3, 1939).

Des. 113,523, Des. 113,524, A. Philippe, Pin clip, D. C., S. D. N. Y., Doc. 2/416, *Trifari, Krussman & Fishel, Inc., et al.* v. *Regina Novelty Corp.* Consent decree for plaintiff (notice Mar. 2, 1939).

Des. 113,524. (See Des. 113,523.)

T. M. 95,745, Francesco Cinzano & Co., Vermouth; T. M. 177,318, Soc. An. Francesco Cinzano & Cia, Sparkling wines, red wines, etc.; T. M. 177,319, same, Absinthe, brandy, gin, whiskey, et al.; T. M. 350,165, Societe Francaise des Anciens Etablissements Cinzano, Societe Anonyme, Vermouth, filed Mar. 13, 1939, D. C., District of Columbia, Doc. —, *S. A. Francesco Cinzano & Cia et al.* v. *M. Milstone* (*Acme Liquor Store*).

T. M. 111,931, The Emerson Electric Mfg. Co., Certain named electrical apparatus and machines; T. M. 199,433, same, Electric fans and motors, appeal filed Mar. 6, 1939, C. C. A., 2d Cir., Doc. —, *The Emerson Electric Mfg. Co. et al.* v. *B. Abrams.*

T. M. 177,318. (See T. M. 95,745.)

T. M. 177,319. (See T. M. 95,745.)

T. M. 350,165. (See T. M. 95,745.)

Adjudicated Patents

(C. C. A. Del.) Christensen patent, No. 1,467,354, for process of concentrating oxidized ores and minerals, claims 1, 2, and 3 *Held* not infringed. *Southern Phosphate Corporation* v. *Phosphate Recovery Corporation*, 102 F.(2d) 801.

(D. C. Pa.) Berger patent, No. 1,577,163, for gutter-hanger circle, *Held* valid and infringed. *Berger Bros. Co.* v. *Charles P. Boyd, Inc.*, 26 F. Supp. 962.

(D. C. Pa.) Geiser patent, No. 1,630,935, for gutter-hanger circle, *Held* valid and infringed. *Id.*

(D. C. Pa.) Richner patent, No. 1,635,690, for eavestrough hanger, *Held* valid and infringed. *Id.*

(D. C. Pa.) Berger patent, No. 1,717,829, for support for gutter hanger circles, *Held* valid and infringed. *Id.*

(D. C. Pa.) Shaw patent, No. 1,823,631, for gutter hanger circle, *Held* valid and infringed. *Id.*

(C. C. A. Del.) Chapman patent, No. 1,968,008, for concentration of minerals, *Held* valid and infringed. *Southern Phosphate Corporation* v. *Phosphate Recovery Corporation*, 102 F.(2d) 791.

(D. C. Pa.) Janssen design patent, No. 109,017, for design for a lamp shade, *Held* valid but not infringed. *Franklin Lamp Mfg. Co.* v. *Albe Lamp & Shade Co.*, 26 F. Supp. 960.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,048,311, G. M. Yorke and R. F. Dirkes, Tape feed for printed strips, decided April 6, 1939, claims 22, 25, 26, 27, and 28.

Pat. 2,115,979, R. A. Sheets and S. E. Noble, Railway signalling system, decided May 13, 1939, claims 2 and 3.

Disclaimers

2,048,311.—*George M. Yorke*, New York, and *Robert F. Dirkes*, Jamaica, N. Y. TAPE FEED FOR PRINTED STRIPS. Patent dated July 21, 1936. Disclaimer filed May 13, 1939, by the assignee, *The Western Union Telegraph Company*.

Hereby enters this disclaimer to claims 22, 25, 26, 27, and 28 of the patent.

2,054,436.—*Joseph H. Mosel*, Columbus, Ohio. APPARATUS FOR BUILDING ROADS. Patent dated September 15, 1936. Disclaimer filed May 15, 1939, by the assignee, *The Jaeger Machine Company*.

Hereby enters this disclaimer to claims 7, 16, 17, and 24 in said specification.

2,132,139.—*Sedgwick N. Wight*, Rochester, N. Y. RAILWAY TRAFFIC CONTROLLING SYSTEM. Patent dated October 4, 1938. Disclaimer filed May 13, 1939, by the assignee, *General Railway Signal Company*.

Hereby enters this disclaimer by disclaiming from claim 1 any system of centralized traffic control, except wherein the "switch control means" comprises a polar relay included in series with the "polar neutral relay" in the "control circuit" specified.

Trade-Mark Registrations Canceled

161,315. Watch parts. Sussfeld, Lorsch & Schimmel, New York, N. Y. Registered November 7, 1922. Canceled May 20, 1939.

169,089. Electric batteries. Burgess Battery Company, Madison, Wis. Registered June 5, 1923. Canceled May 20, 1939.

288,496. Dyes and dyestuffs. General Dyestuff Corporation, New York, N. Y. Registered October 27, 1931. Canceled May 12, 1939.

314,539. Whiskey. The Overbrook Company, Inc., Baltimore, Md. Registered July 3, 1934. Canceled May 12, 1939.

348,769. Beer. Český Akciový Pivovar v. Č. Budějovicích, Ceske Budejovice, Czechoslovakia. Registered August 10, 1937. Canceled May 20, 1939.

351,494. Perfumes. August William Meyer, doing business as Meyer Drug Company, Honolulu, Territory of Hawaii. Registered November 2, 1937. Canceled May 12, 1939.

353,600. Blouses and dresses. Ludwig E. Goetz, New York, N. Y. Registered January 11, 1938. Canceled May 12, 1939.

362,540. Corsets, girdles, and combination corsets and brassières. The H. W. Gossard Co., Chicago, Ill. Registered November 22, 1938. Canceled May 20, 1939.

Label Registration Canceled

52,297. Washing fluid. John Fraschetti, New Castle, Pa. Registered January 3, 1939. Canceled May 20, 1939.

Interference Notice

U. S. PATENT OFFICE, *Washington, D. C. May 19, 1939.*

W. H. Pollard, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Central Wisconsin Canneries, Beaver Dam, Wis., for registration of a trade-mark and trade-mark registered April 20, 1926, No. 211,895, to W. H. Pollard, 354 South Front Street, Memphis, Tenn., and the notice of such proceeding sent by registered mail to said W. H. Pollard at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said W. H. Pollard, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Changes in Classification

Order No. 3,474, May 12, 1939, directs:

In *class 18, Plastics* (Division 50), abolish the following subclasses with their definitions:

Processes
49 Vulcanizable gums
50 Caoutchouc,
52 Restoring caoutchouc.

The patents formerly contained in these subclasses have been placed for the most part in appropriate subclasses in class 18; class 83, Mills; class 209, Classifying, Separating and Assorting Solids; and in class 260, Chemistry, Carbon Compounds, subclasses 709–822, established in this order.

In *class 18, Plastics* (Division 50), change the title and definition of subclass 53 to read:

Processes
53 With vulcanization.

53. Processes for working, especially molding or shaping, of vulcanizable gums, e. g., caoutchouc, which include a vulcanizing step. This subclass does not include processes in which the step of vulcanizing is merely included broadly.

(1) Note.—See class 91, COATING, subclasses 68 and 70, for processes which are directed to coating of a surface with rubber or compositions containing the same, followed by vulcanization, and which processes involve no other treatment which is more specifically provided for elsewhere, e. g., shaping or stripping of the coating or coated article, which is provided for in class 18.

(2) Note.—See class 260, CHEMISTRY, CARBON COMPOUNDS, subclass 709 and indented subclasses, for processes directed to the vulcanization of rubber or its compositions which do not include a significant shaping or other treatment which is more specifically provided for elsewhere.

In *class 87, Oils, Fats and Glue* (Division 64), abolish the following subclasses:

4 Decomposing fats.
12 Refining fat oils.
19 Wax.

The patents formerly contained in these subclasses have been placed in classes 23, Chemistry; 106, Plastic Compositions; 120, Stationery; 126, Stoves and Furnaces; 202, Distillation; 210, Liquid Separation or Purification; 257, Heat Exchange; 260, Chemistry, Carbon Compounds; and 261, Gas and Liquid Contact Apparatus.

In *class 106, Plastic Compositions* (Division 50), abolish the following subclasses with their definitions:

Electrical insulating
13 Rubber.
23 Artificial rubber.

The patents formerly contained in these subclasses have been placed for the most part in class 260, Chemistry, Carbon Compounds, subclasses 709–822, established in this order.

In *class 106, Plastic Compositions* (Division 50), change the title of subclass 22 to read:

22 Artificial ivory;

and in the definition thereof cancel "and substances in the nature of hard rubber".

In *class 134, Liquid Coating Compositions* (Divisions 50 and 64), abolish the following subclasses with their definitions:

Fabric coating and waterproofing
17 Rubber.
Adhesives
23.6 Rubber.
Paint
54 Rubber.

The patents formerly contained in these subclasses have been placed for the most part in class 260, Chemistry, Carbon Compounds, subclasses 709–822, established in this order.

In *class 252, Substance Preparation* (Division 59), abolish the following subclass:

7 Waste sulphite liquor.

The patents formerly contained in this subclass have been placed for the most part in class 159, Concentrating Evaporators, and class 260, Chemistry, Carbon Compounds, subclass 124.

In *class 260, Chemistry, Carbon Compounds* (Division 50), abolish the following subclasses with their definitions:

108 **Reaction products of vulcanizable gums**
109 With aromatic compounds,
110 With halogen compounds of amphoteric metals,
111 Halogenated or hydrohalogenated.

The patents formerly contained in these subclasses have been placed for the most part in class 260, subclasses 709–822, established in this order.

In *class 260, Chemistry, Carbon Compounds* (Division 50), establish, immediately following subclass 96, the following subclasses and definitions:

709 **Vulcanizable natural hydrocarbon gums**
710 Reclaiming waste or sulfurized rubber
711 With acidic compound,
712 With inorganic base
713 With solvent or dispersing medium,
714 With flux, solvent or dispersing medium
715 With added desulfurizing agent,
716 Fat, fatty oil, fatty oil acid or salt thereof,
717 Natural resin or terpene compounds,
718 Wax, bituminous material or tarry residue,
719 Hydrocarbon,
720 With heat and/or pressure
721 With desulfurizing agent,
722 Pore-forming (e. g., sponge rubber)
723 Latex or rubber dispersions,
724 Gas-evolving agent,
725 Gas,
726 Mixtures and processes of preparing same
727 Two or more different kinds of rubber
728 Natural latex containing,
729 Reclaimed or sulfurized rubber containing,
730 Reclaimed or sulfurized rubber containing
731 With fat, fatty oil, fatty oil acid or salt thereof,
732 With natural resin or terpene compound,
733 With wax, bituminous material, or tarry residue,
734 Condensed or isomerized rubber containing (e. g., cyclo-rubber),
735 Rubber halide or hydrohalide containing
736 With fat, fatty oil, fatty oil acid or salt thereof,
737 With natural resin or terpene compound,
738 With filler, dye or pigment,
739 Natural latex or rubber dispersion containing
740 With protein or derivative
741 With filler, dye or pigment,
742 With carbohydrate or derivative,
743 With fat, fatty oil, fatty oil acid or salt thereof,
744 With natural resin or terpene compound,
745 With wax, bituminous material or tarry residue,
746 With filler, dye or pigment,
747 With protein or derivative
748 Leather, hair or feathers,
749 With carbohydrate or derivative
750 Cellulose or derivative
751 Cellulose ether or ester,
752 With fat, fatty oil, fatty oil acid or salt thereof
753 With natural resin or terpene compound,
754 With filler, dye or pigment,
755 With natural resin or derivative
756 With filler, dye or pigment,
757 With wax,
758 With bituminous material or tarry residue,
759 With hydrocarbon (including mineral oil or distillates thereof),
760 With solvent or dispersing medium,
761 With flux or plasticizer,
762 With filler, dye or pigment
763 Elemental carbon,
764 Organic dyestuffs,
765 Inorganic non-metallic material
766 With preliminary treatment,
767 Processes,
768 Reaction products and processes for preparing same
769 With sulfonyl compounds,
770 With halogen compounds of amphoteric metals,
771 Hydrohalogenated (e. g., rubber hydrochloride),
Vulcanizable natural hydrocarbon gums—con'td.
Reaction products and processes for preparing same
772 Halogenated,
773 Oxidized,
774 Selenized or tellurized,
775 Sulfurized (vulcanized)
776 Dispersions (e. g., latex),
777 By treatment with sulfur chloride,
778 By treatment with H_2S,
779 With accelerator
780 With retarder
781 Nitroso compounds,
782 Acid, acid anhydride or salt,
783 Organic compound containing
784 Heterocyclic
785 Thiazoles
786 With other heterocyclic nucleus,
787 Carbonylic group containing,
788 Amino
789 Guanidines,
790 Amine- or ammonia-oxo reaction product,
791 Azines,
792 Six-membered rings with 1 hetero-N-atom,
793 —C—S—containing
‖
S
794 Thioureas or ureas,
795 Amino
796 Amine- or ammonia-oxo reaction product,
797 Guanidines,
798 Secondary or tertiary amines,
799 With anti-oxidant or age-resister
800 Heterocyclic,
801 Amino
802 Amine- or ammonia-oxo reaction products
803 With phenols or phenoxides,
804 Amine- or ammonia-aldehyde reaction products,
805 Aromatic
806 Nitrogen to nitrogen linkage,
807 Polyarylmethyl,
808 Carbonylic or oxy,
809 Secondary or tertiary amines,
810 Carbonylic or oxy,
811 Regulatory processes
812 Gas or vapor treatment,
813 Molten or liquid bath treatment,
814 With preserving, thickening, coagulating or purifying agent
815 Latex,
816 Physical treatments (including chemical treatment of non-rubber material)
817 Protein removal or conversion,
818 Resin removal or conversion,
819 Latex
820 Preserving or stabilizing,
821 Coagulating,
822 Concentrating (e. g., creaming).

709. In this subclass and indented subclasses are placed all patents (except those excluded by the subjoined notes) which are directed to the preparation and treatment of natural hydrocarbon gums (e. g., caoutchouc, balata, and gutta percha), their reaction products, compositions containing said gums or reaction products thereof, which are not more specifically provided for elsewhere, and the products of said treatment or preparation.

(1) Note.—See this class, subclass 3 and indented subclasses, for compositions containing natural hydrocarbon gums or reaction products and synthetic resins or synthetic resin-forming ingredients.

(2) Note.—See this class, subclass 2 and indented subclasses, for synthetic rubber and compositions containing same, especially subclass 93.

(3) Note.—In this classification the term "rubber" is employed in a broad sense to include the natural hydrocarbon gum in the free or combined state.

(4) Note.—See this class, subclass 209, for carbohydrate gums.

(5) Note.—Rubber containing compositions which are specialized for use as dyestuffs, pharmaceuticals, explosives, foods, fuels, abrasives, lubricating oils, or for any other use for which an art class has been provided, are excluded from this group, and are classified in other appropriate classes. Patents which contain a claim to rubber containing compositions per se, and claims which are limited by an art use or function provided for elsewhere, are placed here and cross-referenced to the appropriate art class, if desirable. Patents wherein all the claims are limited to a definite article or to a composition specialized for a use or function provided for elsewhere are placed in the other main classes providing therefor and cross-referenced to this class, when desirable.

(6) Note.—In this classification the terms "vulcanized", "vulcanization", and derivative forms thereof, are employed interchangeably with "sulfurized", "sulfurization", and the corresponding derivative forms thereof, and patents wherein the first-mentioned terms are employed with reference to rubber, in the absence of a disclosure to the contrary, are regarded as being for sulfurized rubber and are so classified.

(7) Note.—Class 18, PLASTICS, is the parent class for the treatment of plastic materials and takes all treatments not more specifically provided for elsewhere. The treatments usually found in class 18 relate to molding or shaping, or significantly include operations performed on molded or shaped articles. For other treatments of rubber in other main classes, see the notes to the main class definition of this class (260).

710. Processes under subclass 709 which are directed to the reclaiming of so-called waste rubber material generally to prepare the same for re-utilization as an ingredient of plastic compositions, and the products immediately resulting from the reclaiming treatment.

Note.—For compositions of matter wherein reclaimed rubber, as such, is employed as a starting ingredient, see appropriate subclasses below, especially subclasses 729 and 730 and indented subclasses.

711. Processes under subclass 710, and products thereof, wherein an acidic compound is employed, e. g., hydrochloric acid or zinc chloride.

712. Processes under subclass 710, and products thereof, wherein an inorganic base is employed.

713. Processes under subclass 712, and products thereof, wherein a solvent or dispersing medium is employed.

714. Processes under subclass 710, and products thereof, wherein a flux, solvent, or dispersing medium is employed.

715. Processes under subclass 714, and products thereof, wherein a desulfurizing agent other than steam is employed in addition to the flux or solvent.

716. Processes under subclass 714, and products thereof, in which a fat, fatty oil, fatty oil acid or salt thereof is employed in addition to the flux or solvent.

717. Processes under subclass 714, and products thereof, wherein a natural resin or derivative thereof or terpene compound is employed.

718. Processes under subclass 714, and products thereof, in which a wax, tar, pitch, or bituminous material is employed.

719. Processes under subclass 714, and products thereof, wherein a hydrocarbon is employed.

720. Processes under subclass 710, and products thereof, wherein heat and/or pressure is employed to reclaim rubber.

721. Processes under subclass 720, and products thereof, in which a desulfurizing agent other than steam is utilized.

722. Processes under subclass 709, and products thereof, which are directed to the production of microporous or cellular rubber containing bodies.

(1) Note.—For sponging processes which are tied up with significant structure, see the appropriate art class providing therefor, especially classes 18, PLASTICS, and 154, LAMINATED FABRIC AND ANALOGOUS MANUFACTURES.

(2) Note.—For similar processes for making cellular concrete, see class 259, AGITATING, subclass 147.

723. Processes under subclass 722, and products thereof, wherein latex or an aqueous rubber dispersion is employed as a starting material.

724. Processes under subclass 722, and products thereof, wherein a specific gas evolving agent has been used, such as, for example, sodium bicarbonate or solid carbon dioxide.

725. Processes under subclass 722, and products thereof, wherein the rubber containing material is sponged by direct treatment with a blowing agent in gaseous form.

726. Compositions under subclass 709 which include a natural hydrocarbon gum or a derivative thereof with at least one significant ingredient that is non-reacted or non-reactive therewith, and which ingredient is not a preserving, creaming, coagulating, purifying, or similarly functioning agent. Processes directed to the making of such compositions are classified according to the composition produced.

(1) Note.—For potentially reactive mixtures of rubber with reagents and/or reagent modifying ingredients which are intended solely for the production of a rubber reaction derivative, see this class, subclass 768 and indented subclasses.

(2) Note.—For the preserving, creaming or coagulating of latex, see this class, subclass 819 and indented subclasses.

(3) Note.—For the treatment of rubber to purify the same, see this class, subclasses 816–818.

(4) Note.—See note (5) to subclass 709 of this class with reference to rubber containing compositions classifiable elsewhere.

(5) Note.—See this class, subclasses 814 and 815, for products resulting from the treatment of a vulcanizable hydrocarbon gum in the form of latex or coagulum with a preserving, creaming, coagulating, purifying or similarly functioning agent; and subclass 816 and indented subclasses, for such processes per se, where not more specifically provided for in this class or other main classes.

727. Compositions under subclass 726 in the preparation of which two or more different kinds of rubber are employed, e. g., vulcanized rubber with unvulcanized rubber, or caoutchouc with balata, or latex with crepe rubber.

728. Compositions under subclass 727 in the preparation of which natural latex or a rubber dispersion is employed as such

729. Compositions under subclass 727 in the preparation of which "reclaimed" or sulfurized rubber is added as such.

730. Compositions under subclass 726 in the preparation of which reclaimed or sulfurized (usually waste) rubber is employed as a starting material.

Note.—See this class, subclass 710 and indented subclasses, for processes directed to both reclaiming rubber and compounding the reclaimed rubber thereby produced.

731. Compositions under subclass 730 which contain a fat, fatty oil, fatty oil acid or salt thereof.

732. Compositions under subclass 730 which contain a resin, a modified form thereof, or a terpene compound, e. g., rosin, turpentine, camphor, pine oil, and ester gum.

733. Compositions under subclass 730 which contain a wax, tar, pitch, or bituminous material.

734. Compositions under subclass 726 which contain isomerization or condensation products of rubber which are generally produced in the presence of condensing agents, e. g., aluminum chloride, chlorstannous acid, sulfonic acids, sulfonyl chlorides, or by treating rubber halides with zinc dust.

735. Compositions under subclass 726 containing rubber halide or rubber hydrohalide, e. g., chlorinated rubber and rubber hydrochloride.

736. Compositions under subclass 735 containing a fat, fatty oil, fatty oil acid or salt thereof.

737. Compositions under subclass 735 containing a natural resin or a terpene compound.

738. Compositions under subclass 735 containing a definite filler, dye or pigment..

739. Compositions under subclass 726 in the preparation of which rubber latex or rubber dispersion is employed.

740. Compositions under subclass 739 containing added protein or derivative thereof, e. g., casein.

Note.—See this class, subclasses 815 and 820, for latex stabilized with proteins.

741. Compositions under subclass 740 which contain a definite filler, dye or pigment.

742. Compositions under subclass 739 containing carbohydrate or derivative thereof.

743. Compositions under subclass 739 containing a fat, fatty oil, fatty oil acid or salt thereof, e. g., Turkey red oil, linseed oil acids and zinc stearate.

744. Compositions under subclass 739 which contain a natural resin or a terpene compound, e. g., shellac, rosin, pine oil, turpentine, and camphor.

745. Compositions under subclass 739 which contain a wax, bituminous material, or a tarry residue, e. g., paraffin, montan wax, asphalt, and stearin pitch.

746. Compositions under subclass 739 containing a filler, dye or pigment.

747. Compositions under subclass 726 which contain a rubber, not specifically provided for above, associated with an added protein.

748. Compositions under subclass 747 in the preparation of which leather, animal hair, horny matter, or feathers are employed.

749. Compositions under subclass 726 which contain a carbohydrate or derivative.

750. Compositions under subclass 749 which contain cellulose or a derivative thereof.

Note.—In this subclass are placed, for example, rubber compositions containing cellulosic fillers, e. g., cork, cotton and wood flour.

751. Compositions under subclass 750 which contain cellulose ether or ester, e. g., pyroxylin or viscose.

752. Compositions under subclass 726 in the preparation of which a fat, fatty oil, fatty oil acid or salt thereof is employed.

753. Compositions under subclass 752 which contain a natural resin or terpene compound.

754. Compositions under subclass 752 which contain a definite filler, dye or pigment.

755. Compositions under subclass 726 which contain a natural resin or terpene compound.

756. Compositions under subclass 755 which contain a definite filler, dye or pigment.

757. Compositions under subclass 726 which contain a wax, e. g., paraffin, montan wax, and carnauba wax.

758. Compositions under subclass 726 which contain a bituminous material or a tarry residue.

759. Compositions under subclass 726 which contain a hydrocarbon, e. g., petroleum, kerosene, benzene, and turpentine.

760. Compositions under subclass 726 which are normally liquid solutions or dispersions of rubber wherein a definite solvent or dispersing medium, not classifiable above, is employed. Compositions wherein the solvent is merely claimed broadly by the term "solvent" are classified on some other basis.

(1) Note.—For compositions containing a hydrocarbon solvent, see this class, subclass 759.

(2) Note.—See class 252, SUBSTANCE PREPARATION, subclass 6.

761. Compositions under subclass 726 which contain a definite plasticizer, softener, swelling agent, mold lubricant or other similarly functioning agent, not provided for above. Where the plasticizer is of such character and quantity as to give a normally liquid solution or dispersion, the patent is classified in subclass 760.

Note.—For compositions containing a fatty oil, bituminous material, or hydrocarbon, see appropriate subclasses above.

762. Compositions under subclass 726 which contain a definite filler, dye or pigment, not provided for above. Where the filler, dye or pigment is merely claimed broadly as such, the patent is classified on some other basis, unless specific proportions or special treatments are claimed in connection with these ingredients.

(1) Note.—Cellulosic fillers when claimed, e. g., wood flour, cork, cotton linters, etc., are in this class, subclass 750; proteinaceous fillers, e. g., leather, hair, feathers, etc., are in subclasses 747 and 748.

(2) Note.—Compare this class, subclasses 738, 741, 754, and 756.

763. Compositions under subclass 762 which contain elemental carbon, e. g., carbon black and graphite.

764. Compositions under subclass 762 which contain an organic dyestuff material, including lakes thereof.

Note.—For organic dyestuffs employed as accelerators and/or anti-oxidants for rubber, see appropriate subclasses below, particularly subclasses 779 and indented subclasses, 799 and 800.

765. Compositions under subclass 762 which contain an inorganic non-metallic compound as a filler or pigment.

Note.—For compositions containing metal particles, see this class, subclass 762.

766. Compositions under subclass 765 in the preparation of which the inorganic filler or pigment material is subjected to a significant preliminary treatment before admixture with rubber.

767. Processes under subclass 726 which are claimed broadly without reference to any specific composition classified above. In this subclass are placed cross references of all patents claiming a specific process which is capable of more general application in the field of rubber compositions.

768. Products under subclass 709 which are reaction, isomerization, condensation, or decomposition products of naturally occurring hydrocarbon gums or their derivatives and their processes of preparation which involve a chemical change in the constitution of the rubber molecule. Patents wherein all the claims are drawn to a treatment which does not involve a change in the chemical constitution of the hydrocarbon molecule of the gum are classified in this class, subclass 816 and indented subclasses. Processes for synthesizing rubber reaction products are classified according to the products resulting therefrom.

(1) Note.—Heat decomposition products of rubber are placed in this subclass unless the ultimate product resulting therefrom is a definite hydrocarbon such as, for example, isoprene, which is in subclass 680.

(2) Note.—See this class, subclasses 720 and 721, for heat treatment of waste or vulcanized rubber to reclaim the same.

(3) Note.—See note (6) to subclass 709 of this class.

769. Processes and the products thereof, under subclass 768, directed to the treatment of rubber with a compound comprising the sulfonyl group (SO_2), e. g., sulfur dioxide, p-toluene sulfonic acid and sulfuric acid.

770. Processes, and the products thereof, under subclass 768, which are directed to the treatment of rubber with a halogen compound of an amphoteric metal, e. g., aluminum chloride, chlorstannous acid, and zinc iodide. The condensation products which usually result from this treatment are generally referred to as "cyclo-rubber", which term also includes some of the products found in subclasses 768 and 769.

771. Products under subclass 768 wherein the rubber molecule contains hydro-halide combined therewith and processes for reacting rubber with halogen hydride wherein the ultimate product is a rubber hydro-halide.

772. Products under subclass 768 wherein the rubber molecule contains a halogen bonded thereto and processes for reacting rubber with halogen or for chemically modifying halogen containing rubber wherein the ultimate product contains halogen.

773. Processes, and the products thereof, under subclass 768, directed to the reactive treatment of rubber with oxygen, or an oxygen yielding compound, for example, treatment with ozone or nitrobenzene.

774. Processes, and the products thereof, under subclass 768, wherein selenium or tellurium is introduced into the rubber molecule.

775. Processes, and the products thereof, under subclass 768, directed to the sulfurization of rubber wherein is usually employed: (1) a novel sulfurizing agent; or (2) a novel sulfurization modifying agent, e. g., accelerator or retarder; or (3) a novel anti-oxidant; or (4) a novel mode for carrying out the sulfurization step, such as, for example, particular temperature or pressure conditions, and manner of introducing reagents or heating agents.

(1) Note.—This subclass includes sulfurizing agents when claimed as such, which are specialized for use in the sulfurization of rubber.

(2) Note.—Where the terms "vulcanized" and "vulcanize" and derivative forms thereof are not indicated to be differently employed, patents employing these terms are classified in this subclass and the subclasses indented hereunder.

776. Processes, and the products thereof, under subclass 775, wherein rubber latex or an aqueous rubber dispersion as such is sulfurized.

777. Processes, and the products thereof, under subclass 775, wherein sulfurization is effected by means of sulphur chloride, which treatment is generally referred to as "cold cure".

778. Processes, and the products thereof, under subclass 775, wherein H_2S is employed as a sulfurization agent, such as, for example, sulfurization by means of H_2S and SO_2.

779. Processes, and the products thereof, under subclass 775, wherein a definite accelerator or a definite accelerator-modifying agent is employed.

780. Processes, and products, under subclass 779, wherein the accelerator is combined or associated with a retarder usually to prevent scorching.

781. Processes, and products, under subclass 780, wherein a compound containing a nitroso group (—N=O) is employed as a retarder, such as, for example, nitrosamines.

782. Processes, and products, under subclass 780 wherein the retarder is an acid, an acid anhydride or a salt.

783. Processes, and products, under subclass 779, wherein an organic compound is employed as an accelerator.

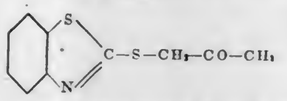
784. Processes, and products, under subclass 783, which employ a heterocyclic compound.

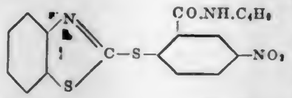
785. Processes, and products, under subclass 784, wherein a thiazole compound is employed, e. g., mercapto-benzo-thiazoles.

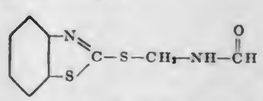
Note.—For thiazole per se, see this class, subclass 302 and indented subclasses.

786. Processes, and products, under subclass 785, wherein the thiazole compound is combined or associated with a different heterocyclic nucleus or compound, such as, for example, the piperidyl or furyl radicals.

787. Processes, and products, under subclass 785, which employ as an accelerator, a thiazole compound which contains a non-oxo carbonylic grouping or is associated with a non-oxo carbonylic compound. For example:



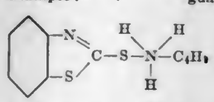




Note.—See this class, subclass 782.

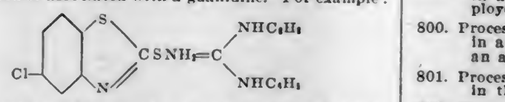
788. Processes, and products, under subclass 785, which employ as an accelerator a thiazole compound which contains an extracyclic amino group or is associated with an amino compound. For example:





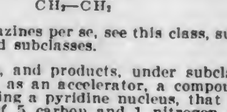
Note.—See this class, subclass 305, for the compounds per se.

789. Processes, and products, under subclass 788, which employ as an accelerator a thiazole compound reacted or associated with a guanidine. For example:



790. Processes, and products, under subclass 788, which employ as an accelerator a thiazole compound reacted or associated with a reaction product of ammonia or an organic amine with an aldehyde or a ketone.

791. Processes, and products, under subclass 784, which employ as an accelerator a compound or mixture containing an azine nucleus, that is, a six-membered ring with at least two hetero atoms, at least one of which is nitrogen, e. g., thiazines and triazines. For example:

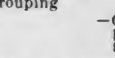


Note.—For azines per se, see this class, subclass 241 and indented subclasses.

792. Processes, and products, under subclass 784, which employ, as an accelerator, a compound or mixture containing a pyridine nucleus, that is, a ring composed of 5 carbon and 1 nitrogen as ring atoms, e. g., acridines, quinolines, pyridines, and piperidines.

Note.—For such compounds per se, see this class, subclass 269 and indented subclasses.

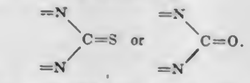
793. Processes, and products, under subclass 783, which employ as an accelerator a compound containing the grouping



such as, for example, dithiocarbamates, thiurams, xanthates and dixanthogens, which compounds may be added as such or formed in situ.

Note.—For thiocarbamates per se, see this class, subclasses 455 and 500; for thiurams per se, see subclass 567; and for xanthates or dixanthogens, see subclass 455.

794. Processes, and products, under subclass 783, which employ as an accelerator a compound containing either of the groupings,



Note.—For thioureas per se, see this class, subclass 552, and for ureas, see subclasses 553–555.

795. Processes, and products, under subclass 783, which employ as an accelerator an amino compound.

796. Processes, and products, under subclass 795, which employ as an accelerator a reaction product of ammonia or an amine with either an aldehyde or a ketone.

(1) Note.—See this class, subclasses 65, 72, and 566, for the reaction products per se.

(2) Note.—See this class, subclass 802 and indented subclasses, for such reaction products when employed as anti-oxidants.

797. Processes, and products, under subclass 795, which employ a guanidine as an accelerator.

(1) Note.—See this class, subclass 789.

(2) Note.—See this class, subclasses 564 and 565, for guanidines per se.

798. Processes, and products, under subclass 795, wherein a secondary or tertiary amine, not classified above, is employed as an accelerator.

799. Processes, and products, under subclass 775, wherein a particular anti-oxidant or age-resister is employed.

800. Processes, and products, under subclass 799, wherein a heterocyclic carbon compound is employed as an anti-oxidant.

801. Processes, and products, under subclass 799, wherein the anti-oxidant is an amino compound.

802. Processes, and products, under subclass 801, wherein the anti-oxidant is a reaction product of ammonia or an amine with either aldehyde or ketone.

(1) Note.—See this class, subclass 796.

(2) Note.—In this subclass are placed, for example, amine-ketone reaction products in the preparation of which an aldehyde or a phenol is not employed. See this class, subclasses 65 and 566, for amine-ketone reaction products per se.

803. Processes, and products, under subclass 802, wherein the ammonia- or amine-oxo reaction product is reacted or associated with a phenol or phenoxide.

804. Processes, and products, under subclass 802, wherein the anti-oxidant is an amine-aldehyde reaction product.

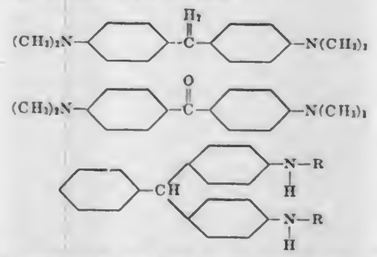
Note.—See this class, subclasses 72 and 566, for amine-aldehyde reaction products per se.

805. Processes, and products, under subclass 801, wherein the amino compound employed contains a benzene nucleus.

806. Processes, and products, under subclass 805, wherein a compound containing a nitrogen bonded to nitrogen group, such as, for example, —N—N— or —N=N—, is employed as an anti-oxidant, such as, for example, nitrosamines and hydrazines.

Note.—See this class, subclass 781.

807. Processes, and products, under subclass 805, wherein a polyarylmethyl compound is employed as an anti-oxidant. For example:



808. Processes, and products, under subclass 805, wherein a carbon compound is employed as an anti-oxidant which contains a carbonylic or oxy radical.

809. Processes, and products, under subclass 805, wherein the anti-oxidant employed is a secondary or tertiary amine.

Note.—This subclass includes reaction products of amines and phenols which are not classifiable above.

810. Processes, and products, under subclass 799, which employ a carbonylic or oxy carbon compound as an anti-oxidant, such as, for example, a sulfurized condensation product of a phenol and an aldehyde, mono-isopropyl ether of hydroquinone, benzil, and beta-di-naphthol.

811. Processes under subclass 775 directed to controlling the conditions of the sulfurization or vulcanization step, e. g., temperature, pressure, feed of reactants or treating agents and manipulation of material undergoing sulfurization.

(1) Note.—For vulcanization processes wherein a significant molding or shaping is employed, see class 18, PLASTICS, subclass 53.

(2) Note.—See class 91, COATING, subclasses 68 and 70, for vulcanization processes wherein a coating operation is significantly claimed.

(3) Note.—See class 154, LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, for vulcanization processes wherein a laminating operation is significantly claimed.

812. Processes under subclass 811 wherein the rubber mass undergoing sulfurization is subjected to direct treatment with a gas or vapor, e. g., carbon dioxide or steam, which is positively introduced into the treating chamber.

813. Processes under subclass 811 wherein rubber mass undergoing sulfurization is treated or immersed in a fused, molten or liquid bath, such as, for example, molten lead, molten sulfur, glycerine, saline solutions, and solutions or suspensions of migratory materials.

814. Products under subclass 709 which result from a preserving, thickening or purifying treatment of rubber wherein no change occurs in the chemical constitution of the rubber molecule, such as, for example, rubber coagulum with a preserving or deproteinizing agent or rubber latex with a preserving (e. g., anti-oxidant or stabilizer), deproteinizing, creaming, anti-gelling, gelling, coagulating or purifying agent.

(1) Note.—Patents claiming characteristics provided for in subclasses 710–813 are placed therein and all of such patents which disclose and/or claim agents for the particular purposes above stated, and which agents are specified in a manner which is more than the mere statement of function, are cross-referenced here with the exception of patents which are in subclasses 740 and indented subclass 747, 760, 776, and 799 and indented subclasses, which subclasses must be investigated for a complete search on such agents.

(2) Note.—This subclass does not contain patents claiming physical processes only which are found in subclass 816 and indented subclasses, unless more specifically provided for elsewhere. If the product is claimed in addition to the physical process, the patent is placed here and cross-referenced to the appropriate physical treatment class.

815. Products under subclass 814 which are in the form of latices or dispersions such as, for example, stabilized latex and creamed latex.

816. Processes for treating vulcanizable hydrocarbon gums or derivatives which involve no change in the chemical constitution of the gum or derivative treated and which are not more specifically provided for elsewhere. In this subclass and those indented hereunder are placed patents which claim process only. Where the product of the physical treatment is also claimed, it is classified in subclasses 814 and 815, where it results from a preserving, thickening, coagulating or purifying treatment, and all other products are in subclass 709 unless they are reaction products, in which case they are classified in the appropriate subclass above and cross-referenced to this subclass or a subclass hereunder.

Note.—See the notes to the main class definition of this class (260) for treatments of rubber or rubber bearing bodies found in other main classes. Where a treatment is claimed which is classifiable in another main class and the product of the treatment is also claimed, which product is classifiable in this class, the patent is classified in this class (260) and cross-referenced to the other main class.

817. Processes under subclass 816 which are directed to the treatment of rubber for the removal or conversion of proteinaceous material naturally occurring in rubber.

Note.—See class 195, CHEMISTRY, FERMENTATION, subclass 2, for removal of proteins by fermentative action.

818. Processes under subclass 816 directed to the treatment of rubber to remove or convert the resins naturally occurring therein.

819. Processes under subclass 816 wherein latex or rubber dispersions are subjected to treatments that do not chemically change the rubber molecule.

820. Processes under subclass 819 which are directed to the preservation or stabilization of a latex, as, for example, to protect it from putrefaction or coagulation.

821. Processes under subclass 819 which are directed to the coagulation of latex.

822. Processes under subclass 819 which are directed to the concentration of latex or dispersion.

Note.—See class 159, CONCENTRATING EVAPORATORS, subclasses 48 and 49.

The patents contained in these subclasses have been taken for the most part from classes 18, Plastics, subclasses 49, 50, 52; 106, Plastic Compositions, subclass 13; 134, Liquid Coating Compositions, subclasses 17, 23.6, and 54; and 260, Chemistry, Carbon Compounds, subclasses 108–111, all abolished in this order, and from class 18, subclass 53.

In *class 1, Nailing and Stapling* (Division 11), in the main class definition add:

(5) Note.—See class 154, LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, for apparatus and processes for making laminated structures wherein the lamina are held together in whole or in part by adhesive means.

In *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers* (Division 43), subclass 3, note (10), in the first sentence thereof change the period to a comma and add:

and 260, CHEMISTRY, CARBON COMPOUNDS, appropriate subclasses, especially subclasses 37 and 762 and their indented subclasses;

in subclass 4 change note (2) to read:

(2) Note.—Compare class 106, PLASTIC COMPOSITIONS, subclasses 22, 37–40, and class 134, LIQUID COATING COMPOSITIONS, subclasses 51, 58 and 79. See also class 49, GLASS, subclass 88, and class 260, CHEMISTRY, CARBON COMPOUNDS, subclasses 37 and 762 and their indented subclasses;

in subclass 5 in the note cancel from "50 and 53" to the end of the sentence and substitute therefor:

48, 53, and 55 and indented subclasses, or class 260, CHEMISTRY, CARBON COMPOUNDS, appropriate subclasses, particularly subclass 709 and indented subclasses;

in subclass 6, note (1), cancel "of waxes in class 87, subclass 19"; in subclass 82, in the second sentence of the note change "1, 6 and 7" to read *1 and 6*; and in subclass 83, change the note to read:

Note.—See class 260, CHEMISTRY, CARBON COMPOUNDS, subclass 124.

In *class 18, Plastics* (Division 15), in the fourth paragraph of the main class definition, in the second sentence, after "83, Mills" change the semi-colon to a period and cancel the remainder of the sentence; in the seventh paragraph add:

Vulcanizable hydrocarbon gums, e. g., rubber, balata, and gutta-percha, and compositions containing the same which come within the definition of class 260, CHEMISTRY, CARBON COMPOUNDS, and their preparation, are in class 260, subclass 709 and indented subclasses;

in subclass 2 cancel note (2); in subclass 6 cancel note (1) and cancel the number of the remaining note; and in subclass 48 cancel "vulcanizable gums, and their compounds", and in the note change "subclasses" to *subclass* and cancel "49 and 50".

In *class 23, Chemistry* (Division 59), subclass 236, cancel the reference to class 87, Oils, Fats and Glue; in subclass 239 cancel note (1) and substitute:

(1) Note.—See class 260, CHEMISTRY, CARBON COMPOUNDS, subclasses 799 and indented subclasses, 814, 815, and 820, for the preservation of rubber with anti-oxidants;

and in subclass 290 change the reference to class 87 to read: *87, Oils, Fats and Glue, subclass 13.*

In *class 41, Ornamentation* (Division 17), subclass 41, in the reference to class 18, Plastics, change "subclasses 50 and 51" to read *subclass 51* and cancel "rubber and".

In *class 92, Paper Making and Fiber Liberation* (Division 56), subclass 7 in note (2) in the reference to class 87, Oils, Fats and Glue, cancel "4" and "12".

In *class 106, Plastic Compositions* (Divisions 38 and 50), in the main class definition add:

(4) Note.—For plastic compositions containing rubber, see class 260, CHEMISTRY, CARBON COMPOUNDS, subclasses 3 and 709 and their indented subclasses;

and in subclass 7.5 cancel note (1).

In *class 134, Liquid Coating Compositions* (Division 64), in the main class definition, number the existing note (*1*) and add:

(2) Note.—For liquid coating compositions containing rubber, see class 260, CHEMISTRY, CARBON COMPOUNDS, subclass 709 and indented subclasses;

and in subclass 23.91 in the note change "252, Substance Preparation, subclass 7", to read *260, Chemistry, Carbon Compounds, subclass 124.*

In *class 152, Resilient Tires and Wheels* (Division 45), in note (4) of the main class definition change the period to a comma and add *and class 260, Chemistry, Carbon Compounds, subclass 775 and indented subclasses*; in subclass 211 cancel the second sentence of note (1); in subclass 311 in the note cancel "particularly subclass 23"; and in subclass 347 in the second sentence of note (1) cancel "subclass 23".

In *class 154, Laminated Fabric and Analogous Manufactures* (Division 56), in the main class definition add the following note:

Note.—For apparatus and processes of making laminated structures wherein the lamina are secured together solely by penetrating fasteners, and no other laminating operation is claimed, see class 1, NAILING AND STAPLING, appropriate subclasses, especially subclass 2.

In *class 196, Mineral Oils* (Division 31), in subclasses 3, 16, 23, 40, and 147 under "Search classes" cancel the reference to class 87, Oils, Fats and Glue; in subclasses 38 and 41 cancel note (2) of each; in subclass 53 cancel the note; in subclass 71 in note (4) cancel the reference to class 87, Oils, Fats and Glue; in subclass 78 cancel note (3); and in subclass 142 in note (3) in the reference to class 87, Oils, Fats and Glue, change "subclasses 9 and 12" to read *subclass 9.*

In *class 209, Classifying, Separating and Assorting Solids* (Division 25), in subclass 2 cancel note (2).

In *class 260, Chemistry, Carbon Compounds* (Division 6), in the main class definition in the third paragraph change the period to a comma and add:

and also includes compositions of matter containing vulcanizable natural hydrocarbon gums or derivatives;

cancel note (2) of the main class definition and substitute therefor the following:

(2) Note.—See class 18, PLASTICS, for processes and apparatus for molding or shaping of plastic materials which consist of or contain carbon compounds. Said class also includes processes which relate to the treatment of such plastic material to prepare the same for molding as well as subsequent treatments which are not more specifically provided for elsewhere. Patents which include both the preparation and a significant molding or working treatment of a compound or composition, classifiable in this class (260), are placed in class 18 and cross-referenced to this class (260), when desirable. Where the molding is merely incidental to the preparation of the compound or composition, the patent is placed in this class (260);

in subclass 124 change note (2) to read:

(2) Note.—See class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 83;

in subclass 125 change note (6) to read:

(6) Note.—For sulfurized gums, search this class, subclass 775 and indented subclasses;

in subclass 428 cancel the note; in subclass 685 in note (1) in the second sentence change the period to a comma and add *and this class (260), subclass 775 and indented subclasses*; and in subclass 690, in note (5), cancel "class 87, subclass 12, and".

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 6, 1939

[VOL. 503. NO. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 413,809. THE L. B. LOCKWOOD COMPANY, Cleveland, Ohio. Filed Dec. 14, 1938.

WOKUT
STAPLE FIBER

Applicant disclaims the words "Staple Fiber" apart from the mark.

For Wool Fiber.

Claims use since Aug. 25, 1938.

Ser. No. 415,768. THE EAST ASIATIC CO., INC., San Francisco, Calif. Filed Feb. 8, 1939.

IMPERIAL
PEAT MOSS
MADE IN DENMARK

The words "Peat Moss" and "Made in Denmark" are disclaimed apart from the mark.

For Peat Moss.

Claims use since Nov. 15, 1938.

Ser. No. 416,635. AMERICAN PORCELAIN ENAMEL COMPANY, Muskegon, Mich. Filed Mar. 3, 1939.

APEC

For Porcelain Frit.

Claims use since Jan. 19, 1939.

Ser. No. 417,051. F. C. DONOVAN, INC., Boston, Mass. Filed Mar. 14, 1939.

DOMOC

For Leather.

Claims use since Mar. 1, 1936.

Ser. No. 417,598. B. WOLLMAN & BRO., New York, N. Y. Filed Mar. 28, 1939.

SILVERUBY

For Fur Skins.

Claims use since Jan. 16, 1939.

Ser. No. 417,760. HERCULES POWDER COMPANY, Wilmington, Del. Filed Apr. 1, 1939.



For Resin Used in All Cases Where Rosin May Be Employed, Such as in Paints, Varnishes, Soaps, Paper Sizes, Box Toes, Electrical Insulating Compounds, Adhesives, Cements, Rubber Compounds, Synthetic Resins, Etc.

Claims use since Jan. 12, 1939.

Ser. No. 417,761. HERCULES POWDER COMPANY, Wilmington, Del. Filed Apr. 1, 1939.

HERCULES

For Resin Used in All Cases Where Rosin May Be Used, Such as in Paints, Varnishes, Soaps, Paper Sizes, Box Toes, Electrical Insulating Compounds, Adhesives, Cements, Rubber Compounds, Synthetic Resins, Etc.

Claims use since Dec. 28, 1938.

Ser. No. 417,811. MONARCH LEATHER COMPANY, Chicago, Ill. Filed Apr. 3, 1939.

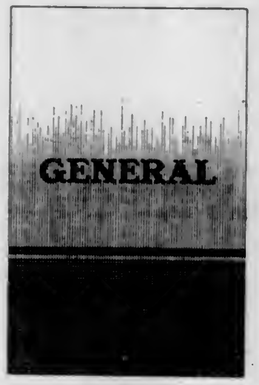
MONTAN

For Leather.
Claims use since January, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 381,612. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed July 30, 1936.



The drawing is lined for black and red shading off into light pink.

For Liquid Preparations for Cleaning and Dressing Rubber Articles Having Incidental Properties for Treating and Coloring the Same, and Liquid Preparations for Cleaning and Refinishing Automobile Bodies and Other Lacquered, Painted, Varnished, or Enameled Surfaces Having Incidental Polishing Properties.
Claims use since June 3, 1936.

Ser. No. 409,820. RAINE-KLEER COMPANY, San Francisco, Calif. Filed Aug. 20, 1938.



RAINE-KLEER

The word "Raine-Kleer" is disclaimed except when used in form and association as shown.
For Chemically Treated Windshield Felts.
Claims use since Apr. 20, 1938.

Ser. No. 417,224. MARNA MANUFACTURING COMPANY, St. Louis, Mo. Filed Mar. 18, 1939.



For Upholstery and Rug Cleaner.
Claims use since Mar. 6, 1939.

Ser. No. 417,329. COLGATE PALMOLIVE PEET COMPANY, Jersey City, N. J. Filed Mar. 21, 1939.



Applicant is the owner of registrations ≡227,647 and ≡230,252 for the trade-mark "Colgate" under the 10-year proviso of the 1905 act. Applicant disclaims the words "Rapid Shave Cream" and "Shave Cream" and the representation of a carton. The drawing is lined for blue.
For Shaving Cream.
Claims use since Dec. 6, 1938.

Ser. No. 418,409. H. E. JARVIS & CO., LIMITED, London, England. Filed Apr. 18, 1939.

RADDIM

For Toilet Soaps.
Claims use since November, 1938.

CLASS 5

Adhesives

Ser. No. 417,898. DONALD WHITE, Memphis, Tenn. Filed Apr. 5, 1939.

Toobfilm

For Semi-Plastic Material for Insertion in Tire Tubes for Preventing Punctures and Sudden Blowouts.
Claims use since Feb. 1, 1939.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 392,064. VICTOR ZAHLOUT, doing business as Victor Chemical Co., Oakland, Calif. Filed Apr. 29, 1937.



For Analgesics, Anaphrodisiacs, Anesthetics, Anodynes, Anthelmintics, Antichlorotics, Anti-Epileptics, Antigalactogogues, Antigonorrheics, Antihodrotics, Antilithics, Antineuralgics, Antiparasitics, Antiperiodics, Antiphlogistics, Antipyretics, Antirheumatics, Antisialogogues, Antispasmodics, Antizymotics, Aphrodisiacs, Astringents, Cardiac Sedatives, Cardiac Stimulants, Cerebral Depressants and Stimulants, Constructives, Cough and Cold Medicines, Counter-Irritants, Demulcents, Deodorants, Deoxizers, Depilatories, Depressants, Diaphoretics, Discutients, Disinfectants, Diuretics, Emmenagogues, Errhines, Escharotics, Expectorants, Galactagogues, Hemostatics, Hypnotics, Irritants, Motor-Depressants, Motor-Excitants, Mydriatics, Myotics, Narcotics, Nervines, Nutrients, Oxytocics, Ptyalagogues, Pustulants; Refrigerants, Medicinal; Resolvents, Respiratory; Depressants, Respiratory; Stimulants, Restoratives, Rubefacients, Sedatives, Sialagogues, Soporifics, Sternutatories; Stimulants (Cardiac, Cerebral, Hepatic); Styptics, Sudorifics, Teniafuges, Vasoconstrictors, Vasodilators, Vascular Sedatives, Vermicides, Vesicants.
Claims use since Feb. 16, 1935.

Ser. No. 404,492. EDWARD SCHWARTZENFELD, doing business as Pedmor Products Co., Cleveland, Ohio. Filed Mar. 25, 1938.



For Foot Massage Creams.
Claims use since Mar. 3, 1936.

Ser. No. 405,353. FERRY-MORSE SEED COMPANY, Detroit, Mich. Filed Apr. 16, 1938. Under section 5b of the act of 1905 as amended in 1920.

FERRY'S

For Insecticide, Particularly a Garden Spray.
Claims use since March, 1938.

Ser. No. 406,298. DEBORAH C. MINER, doing business as Associated Chemists, Portland, Oreg. Filed May 13, 1938.



For Insecticides.
Claims use since Dec. 11, 1927.

Ser. No. 409,813. MICHAEL E. LEE, doing business as The Merlek Co., Oakland, Calif. Filed Aug. 20, 1938.

MERLEK

For Artificial Mineral Waters for Medicinal Use.
Claims use since Dec. 11, 1937.

Ser. No. 411,060. TABLE ROCK LABORATORIES, INC., Greenville, S. C. Filed Sept. 28, 1938.

ESPERON

For Preparation for the Treatment of Essential Hypertension, Arteriosclerosis, and Thrombosis and Impaired Coronary Circulation.
Claims use since Oct. 1, 1937.

Ser. No. 412,760. ETABLISSEMENTS ANTOINE CHIRIS, COMPAGNIE DES PRODUITS AROMATIQUES CHIMIQUES ET MEDICINAUX, SOCIETE ANONYME, Paris, France. Filed Nov. 15, 1938.

LES HESPÉRIDÉES

For Essential Oils for Use in the Production of Perfumes and Pharmaceutical Articles.
Claims use since Apr. 4, 1933.

Ser. No. 413,446. KAY PREPARATIONS CO. INC., New York, N. Y. Filed Dec. 3, 1938.

formula 301



No claim is made to the word "Formula" apart from the mark.

For Skin Lotion.

Claims use since Mar. 1, 1938.

Ser. No. 414,421. ROSABELLE LEVY, doing business as Andresin Laboratories, Springfield Gardens, N. Y. Filed Dec. 31, 1938.

ANDRESIN

For Dentifrice and Mouth Wash.

Claims use since June 1, 1937.

Ser. No. 414,466. PEP LABORATORIES, INC., Savannah, Ga. Filed Jan. 3, 1939.

ROBERSON'S

PEP

PAIN EASE POWDER

No claim is made to the words "Roberson's" and "Pain Ease Powder" except as shown.

For Medicinal Preparation for the Treatment and Relief of Headaches, Neuralgia, Earache, Toothache, Simple and Head Colds, Fever, and for Use as a Nerve Sedative.

Claims use since Oct. 1, 1938.

Ser. No. 414,583. VALDOR, INC., New York, N. Y., assignor to Valdor, Inc., New York, N. Y., a corporation of New York. Filed Jan. 6, 1939.

DON JUAN

For Lipsticks.

Claims use since Jan. 3, 1939.

Ser. No. 415,024. FRANK P. CASO, New York, N. Y. Filed Jan. 19, 1939.

NEOTHESOL

For Local Anesthetic.

Claims use since July 1, 1937.

Ser. No. 415,156. EDMUND I. BRANOWER, doing business as Branower Chemical Company, New York, N. Y. Filed Jan. 24, 1939.

NO - HAL

For Mouth Deodorant.

Claims use since Dec. 28, 1938.

Ser. No. 415,304. THE SOLVAY PROCESS COMPANY, New York, N. Y. Filed Jan. 27, 1939.

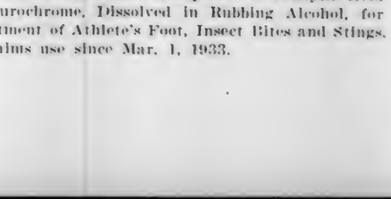
Para-Baco

The expression "Para" per se is disclaimed.

For Insecticides and Fungicides.

Claims use since Dec. 6, 1938.

Ser. No. 415,305. THE SOLVAY PROCESS COMPANY, New York, N. Y. Filed Jan. 27, 1939.



The word "Para" per se is disclaimed.

For Insecticides and Fungicides.

Claims use since Dec. 6, 1938.

Ser. No. 415,493. DR. ARMIN BAYER & CO. G. M. B. H., Berlin, Germany. Filed Feb. 2, 1939.

„Phosphyll"

For Tonics for Increasing Energy and Avoiding Loss of Vitality, and Roborants.

Claims use since Feb. 14, 1934.

Ser. No. 415,806. SUPPLEMENTAL NUTRITIONS COMPANY, Los Angeles, Calif. Filed Feb. 8, 1939.

NUVICON

For Therapeutic Vitamin and Mineral Dietary Supplement.

Claims use since Oct. 21, 1938.

Ser. No. 415,950. PAUL KENDA, doing business as Athletika Laboratories, San Antonio, Tex. Filed Feb. 11, 1939.

ATHLETIKA

For Patent Medicine Composed of Salicylic Acid and Mercurochrome, Dissolved in Rubbing Alcohol, for the Treatment of Athlete's Foot, Insect Bites and Stings.

Claims use since Mar. 1, 1933.

Ser. No. 415,965. EDWARD C. STERLING, doing business as Edcan Laboratories, Norwalk, Conn. Filed Feb. 11, 1939.

EDCAN

For Alkyl Halides Such as Methenylene Iodide and Isopropyl Bromide; Phosphorus Halides Such as Phosphorus Tribromide; Carbazones Such as Diphenyl Carbazone and Diphenyl Thiocarbazone; Organic Arsines Such as Phenyl Dilodo Arsine; and Selenium Compounds Such as Selenium Dioxide and Selenium Bromide.

Claims use since Dec. 9, 1938.

Ser. No. 415,989. LA FOREST LABORATORIES COMPANY, New York and Long Island City, N. Y. Filed Feb. 13, 1939.

Ensamin

For Solution of Glandular Products and Mineral Salts for Treatment of Asthma, Hay Fever, and Similar Allergic Affections.

Claims use since Oct. 31, 1938.

Ser. No. 416,011. HERB PRODUCTS MEDICINE COMPANY, Jackson, Tenn. Filed Feb. 14, 1939.



The facsimile signature is that of B. J. Lifsey, deceased.

No claim is made to the word "Herb" apart from the mark.

For Tonic Laxative Compound for Constipation and Attendant Ills, Biliousness, Gas, Sourness, Dizziness, Coated Tongue, Nervousness, Headache, Stomach, Liver, and Kidney Disorders Due to Constipation.

Claims use since November, 1933.

Ser. No. 416,271. EUGENE SIMON, doing business as E. Simon Company, Tampa, Fla. Filed Feb. 20, 1939.

GLO-BAK

For Preparation for Restoring Color to Gray and Faded Hair.

Claims use since Jan. 23, 1939.

Ser. No. 416,282. RIO-PRODUCTS LABORATORY CO., Brooklyn, N. Y. Filed Feb. 21, 1939.

BELLABULGARA

For Medicinal Preparation for Use in the Treatment of Parkinson's Disease.

Claims use since Feb. 9, 1939.

Ser. No. 416,511. HAACK BROS. MANUFACTURING PHARMACISTS, Portland, Oreg. Filed Feb. 28, 1939.

BELAP

For Tablets Containing Certain Drugs—Namely, Phenobarbital and Belladonna Extract, for Use in Treating Disturbances in Colon and Bowels.

Claims use since January, 1938.

Ser. No. 416,706. STANDARD ANTISEPTICS INC., New York, N. Y. Filed Mar. 4, 1939.

AN-JEL

Applicant disclaims the word "Jel" apart from the mark.

For Tooth Powder, Mouth Wash, Liquid Skin Lotion, Skin Ointment, Petroleum Jelly, Deodorant, and Cosmetic Cream.

Claims use since Dec. 12, 1938.

Ser. No. 416,736. MILLER DRUG CO., Rochester, N. Y. Filed Mar. 6, 1939.

BELITE

For Reducing Preparation.

Claims use since Sept. 1, 1938.

Ser. No. 416,745. REKONSO PRODUCTS INCORPORATED, Miami, Fla. Filed Mar. 6, 1939.

REKONSO

For Antacid Tablets.

Claims use since Jan. 2, 1939.

Ser. No. 416,891. LULU CLAYTON, doing business as Madam Lulu Clayton, Kinloch, Mo. Filed Mar. 10, 1939.

BEAUTY BLEST

No claim is made to the word "Beauty" apart from the mark.

For Hair Pomade.

Claims use since Mar. 1, 1939.

Ser. No. 416,900. ROBERT WM. JOHNSON, Baltimore, Md. Filed Mar. 10, 1939.



All matter on the trade-mark is disclaimed save the words "(A-O-D)", "Ake-O-Dyne", and "The Ake-O-Dyne Co."

For Medicinal Tablets for Relief of Aches and Pains Caused by Simple Colds and Simple Neuralgia and Headache, and of Muscle Pains and the Discomfort of Superficial Menstrual Disorders, and of Pain After Tooth Extraction.

Claims use since Mar. 1, 1938.

Ser. No. 416,929. XANDRA LIMITED, New York, N. Y. Filed Mar. 10, 1939.

hangover

For Liquid Ammonia Bath Preparation.

Claims use since Dec. 10, 1938.

Ser. No. 417,047. AQUA-SEC CORP., New York, N. Y. Filed Mar. 14, 1939.



The word "Finish" is disclaimed apart from the mark as shown.

For Chemical Preparations for Finishing, Sizing, and Otherwise Processing Textiles and Textile Fabrics.

Claims use since February, 1939.

Ser. No. 417,177. MAISON JOUBERT, INC., Jersey City, N. J. Filed Mar. 17, 1939.

SWEET MOMENTS

For Astringents, Astringent Cerates, Beauty Creams, Bleach Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream and Solid Forms, Eyebrow and Eyelash Grower, Eye Drops, Eye Lotions, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Styptic Pencils, Pomades, Face Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Bath Oils, Bath Powders, Bath Crystals, Smelling Salts, Lip Sticks, Lip Stick Removers, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Creams, Nail Powders, Nail Bleaches, Nail Polishes, Nail Polish Removers, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Feb. 23, 1939.

Ser. No. 417,355. AMIROL-ADMIRACION SALES CORPORATION, Newark, N. J. Filed Mar. 22, 1939.

Amirol

For Hair Coloring and Shampoo Treatment.

Claims use since Jan. 2, 1938.

Ser. No. 417,377. FRANK LABAGNARA, doing business as Labagnara & Son, Cleveland, Ohio. Filed Mar. 22, 1939.

LABBY'S

For Scalp Tonic.

Claims use since Feb. 22, 1939.

Ser. No. 417,394. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York N. Y. Filed Mar. 23, 1939.



The drawing is lined for blue. No claim is made to the words "Trade-Mark", "Unhairing Compound", and "Keep Cool and Dry" apart from the mark.

For Chemical Compound for Use in the Unhairing of Animal Hides.

Claims use since Sept. 28, 1938.

Ser. No. 417,406. JUSTIN J. MCCARTHY, doing business as The Wilmac Laboratories, Brighton, Boston, Mass. Filed Mar. 23, 1939.

DIALON

For Chemical Compound for Developing a Photographic Negative.

Claims use since Jan. 2, 1939.

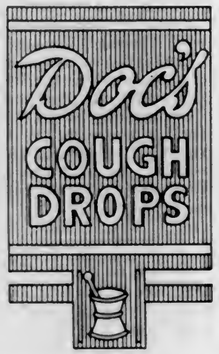
Ser. No. 417,424. VALLEY SULPHUR COMPANY, Lodi, Calif. Filed Mar. 23, 1939.



For Dusting, Burning, and Soil Sulphur.

Claims use since July, 1937.

Ser. No. 417,474. ROSS-PERRY CORP., New York, N. Y. Filed Mar. 24, 1939.



The drawing is lined for red. No claim is made to the words "Cough Drops" apart from the mark.

For Cough Drops.

Claims use since Jan. 7, 1939.

Ser. No. 417,569. THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Mar. 28, 1939.



For Antiseptic and Germicide.

Claims use since Mar. 2, 1939.

Ser. No. 417,570. THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Mar. 28, 1939.



For Antiseptic and Germicide.

Claims use since Mar. 2, 1939.

Ser. No. 417,571. THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Mar. 28, 1939.



For Antiseptic and Germicide.

Claims use since Mar. 2, 1939.

Ser. No. 417,580. MARTHA LEWIS, Donora, Pa. Filed Mar. 28, 1939.

Mme. Lewis' Special



The portrait is that of the applicant. The term "Special" is disclaimed apart from the mark.

For Preparations for the Hair and Treatment of the Scalp.

Claims use since Dec. 8, 1938.

Ser. No. 417,810. J. M. MARMADUKE, Deepwater, Mo. Filed Apr. 3, 1939. Under 10-year proviso.

CROUPEASE

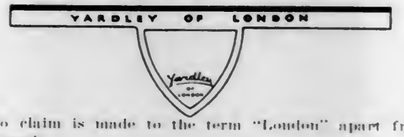
For Preparation Used in the Treatment of Croup, Sore Throat, Hoarseness, Et Cetera.
Claims use since Jan. 1, 1884.

Ser. No. 417,871. THE DIETAID COMPANY, INC., New York, N. Y. Filed Apr. 5, 1939.



The drawing is lined for red.
For Blood Tonic.
Claims use since February, 1938.

Ser. No. 417,992. YARDLEY OF LONDON, INC., Union City, N. J. Filed Apr. 7, 1939.



No claim is made to the term "London" apart from the mark.

For Astringent, Astringent Cerate, Bleach Cream, Beauty Cream, Perfumes, Cold Cream, Cleansing Cream, Refreshing Cream, Dry Rouge, Liquid Rouge, Face Bleach, Face Pack, Skin Whitener (Liquid), Skin Whitener (Solid), Skin Whitener Cream, Hand Lotion, Skin Lotion, Pomades, Face Powder, Talcum Powder, Body Powder, Sachet, Hair Elixir, Dandruff Preparation, Hair Tonic, Hair Oil, Shampoo, Nail Cream, Nail Bleach, Nail Powder, Toilet Water, Bath Salts, Smelling Salts, Lipstick.
Claims use since Feb. 7, 1939.

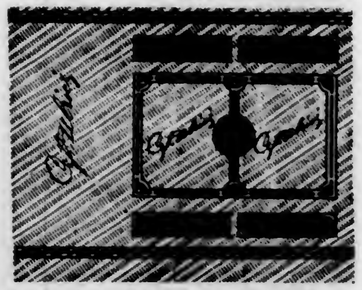
Ser. No. 418,276. F. UDDO & SONS, New Orleans, La. Filed Apr. 14, 1939.



No claim is made to the expression "Sure Klean" apart from the mark.

For Bleach, Disinfectant, Deodorant, and Cleanser.
Claims use since 1930.

Ser. No. 418,424. THE ULRICI MEDICINE COMPANY, INC., New York, N. Y. Filed Apr. 18, 1939.



For Preparations Useful as an Aid to Convalescence from Illness, as Tonics and Reconstituents to Aid in the Development of Children and in the Care of Mothers During and After Childbirth, and Indicated in or for the Treatment of Anemia; Bilious Diarrhoea, Billiousness; Chlorosis; Chronic Catarrh; Chronic Indigestion; Cold Sweat; Congestion; Constipation; Coughs; Diminution, Impairment or Loss of Appetite, Energy, Resistance, Strength, Vitality and Weight; Diminution of the Quantity or Impairment of the Quality of the Blood; Dyspepsia; Fatigue; General Debility; Grippe; Hepatitis; Influenza; Liver Complaint; Lymphatism; Melancholia; Menstrual Disorders; Irregularities and Pains; Mental Depression and Fatigue; Nervous Depression, Exhaustion and other Affections, Disorders or Maladjustments of the Nervous System; Neurasthenia; Physical Disorders Resulting from the Change of Life of Women; Rickets; Sallowness; Scrofula; Weakness of the Lungs; to Build Blood, Bone and Tissue; to Purify and Enrich the Blood; to Strengthen the Lungs; and as a Preventative Against Anemia, Beri-Beri and Incipient Tuberculosis.
Claims use since 1904.

Ser. No. 418,438. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Apr. 19, 1939.

JAP-ROTE

For Insecticides.
Claims use since Feb. 10, 1939.

Ser. No. 418,476. CARTIER, INC., New York, N. Y. Filed Apr. 20, 1939. Under 10-year proviso.

CARTIER

For Perfume Extracts, Toilet Waters, Face Powders, Rouges, Lipsticks, Mascara, Eyebrow Pencils, and Perfumery.
Claims use since 1859.

Ser. No. 418,569. DR. GEORG HENNING CHEM. PHARM. WERK G. M. B. H., Berlin-Tempelhof, Germany. Filed Apr. 22, 1939.

Foligan

For Preparation Containing the Glycosides of Digitalis in its Natural Form and Proportion.
Claims use since November, 1936.

Ser. No. 418,570. DR. GEORG HENNING CHEM. PHARM. WERK G. M. B. H., Berlin-Tempelhof, Germany. Filed Apr. 22, 1939.

Pancortex

For Standardized Adrenalin Extract Used for Infectious Diseases and for the Basedow Tests.
Claims use since April, 1933.

Ser. No. 418,649. S. PFEIFFER MFG. CO., St. Louis, Mo. Filed Apr. 24, 1939.

VE-TA-CO

For Medicinal Tonic and Appetite Stimulant.
Claims use since Jan. 15, 1939.

Ser. No. 418,771. THE DOHO CHEMICAL CORPORATION, New York, N. Y. Filed Apr. 27, 1939.

TURGASEPT

For Antiseptic Ear Drops.
Claims use since Feb. 15, 1938.

Ser. No. 418,834. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Apr. 28, 1939.

DOSULES

For Individual Containers Made of Gelatine or Other Suitable Material Containing Individually Measured Doses of Medicinal Hormone Preparations Recommended for the Treatment of Glandular Deficiencies, Hemorrhoidal Ointment, Healing Ointments, and Unctions Recommended for the Treatment of Arthritis, Neuritis and Rheumatoid Conditions Generally.
Claims use since Nov. 25, 1938.

CLASS 10
Fertilizers

Ser. No. 418,017. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 8, 1939.

Calsi-Ureor

For Fertilizers.
Claims use since Feb. 9, 1939.

CLASS 12
Construction Materials

Ser. No. 414,397. ECONOMY FORMS CORPORATION, Des Moines, Iowa. Filed Dec. 31, 1938.

ECONOMY

For Metal Forms for Use in Retaining Concrete Structures During the Setting and Hardening Thereof.
Claims use since Oct. 1, 1933.

Ser. No. 417,675. M AND M WOOD WORKING COMPANY, Portland, Oreg. Filed Mar. 29, 1939.

RESINTOX

For Plywood—Namely, Laminated Sheets of Natural Wood, Doors, Flooring, Frames, and Wallboard.
Claims use since Feb. 2, 1939.

Ser. No. 417,919. E. J. LAVINO AND COMPANY, Philadelphia, Pa. Filed Apr. 6, 1939.

PEREX

For Refractory Bricks, Refractory Plastics, and Refractory Cements.
Claims use since Mar. 1, 1939.

Ser. No. 417,920. E. J. LAVINO AND COMPANY, Philadelphia, Pa. Filed Apr. 6, 1939.

UBK

For Refractory Bricks, Refractory Plastics, and Refractory Cements.
Claims use since Mar. 1, 1939.

Ser. No. 417,923. E. J. LAVINO AND COMPANY, Philadelphia, Pa. Filed Apr. 6, 1939.

LITHOMAG

For Material for Making Cast Refractory Bodies.
Claims use since Mar. 1, 1939.

Ser. No. 417,924. E. J. LAVINO AND COMPANY, Philadelphia, Pa. Filed Apr. 6, 1939.

TAPOLITH

For Refractory Material for Tap Hole Mixes.
Claims use since Mar. 1, 1939.

Ser. No. 418,202. SAMUEL D. MOORE, doing business as Sam Moore & Co., Cleveland, Ohio. Filed Apr. 13, 1939.

RUB-BUB

For Sound Insulating and Deadening Materials.
Claims use since Jan. 26, 1939.

CLASS 13
Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 411,878. MCGRAW ELECTRIC COMPANY, Chicago, Ill. Filed Oct. 21, 1938.

TOASTMASTER

For Receptacles for Household Use Particularly Metallic Trays of Base Metal.
Claims use since June 28, 1933.

Ser. No. 411,884. McGRAW ELECTRIC COMPANY, Chicago, Ill. Filed Oct. 21, 1938.

HOSPITALITY

For Receptacles for Household Use Particularly Metallic Trays of Base Metal.
Claims use since June 28, 1933.

Ser. No. 416,016. JAMES F. RHOADS, doing business as National Sanitary Health Service, Media, Pa. Filed Feb. 14, 1939.

NATIONAL SANITARY HEALTH SERVICE

For Complete Modern Plumbing Units for Buildings, Bathroom Fixtures and Equipment Consisting of Water Closets, Flushometers, Control Valves, Wash Stands, Lavatories, Shower Stalls, Bidets, Dental Lavatories, Drain Traps, Kitchen Sinks, Pipes, Valves, Laundry Trays, Slop Sinks, Metal Pipes and Fittings.
Claims use since Jan. 10, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 416,935. ADIRONDACK FOUNDRIES AND STEEL, INC., Watervliet, N. Y. Filed Mar. 11, 1939.

ADALLOY

For Castings of Ferrous Metals.
Claims use since Sept. 15, 1932.

CLASS 15

Oils and Greases

Ser. No. 412,389. PEN-O-TEX OIL COMPANY, Minneapolis, Minn. Filed Nov. 4, 1938.

PENN-O-TEX

For Gasoline, Lubricating Oils and Greases, Petroleum Distillates—Namely, Fuel Oils, Furnace Oils, Range Oils, Pressure Distillates, and Fuel Distillates.
Claims use since Feb. 11, 1931.

Ser. No. 417,837. GALENA OIL CORPORATION, Cincinnati, Ohio. Filed Apr. 4, 1939.

STAMINIZED

For Motor Oils.
Claims use since Mar. 8, 1939.

Ser. No. 418,054. PARAGON OIL CO., INC., Brooklyn, N. Y. Filed Apr. 10, 1939.

Paraplant

For Lubricating Oils and Greases.
Claims use since May 12, 1938.

Ser. No. 418,055. PARAGON OIL COMPANY, INC., Brooklyn, N. Y. Filed Apr. 10, 1939.

Parapure

For Lubricating Oils, Motor Oils, and Marine Oils.
Claims use since June 22, 1938.

CLASS 17

Tobacco Products

Ser. No. 417,331. IRA M. DECKER, Denver, Colo. Filed Mar. 21, 1939.

Souvenir

For Cigarettes.
Claims use since Nov. 12, 1938.

Ser. No. 418,067. A. SENSENBRENNER SONS, Los Angeles, Calif. Filed Apr. 10, 1939.

PATTIES

For Cigars.
Claims use since Nov. 12, 1887.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 413,413. P. MARCUS LOWELL, Amesbury, Mass. Filed Dec. 2, 1938.

TOWN CLASS

The word "Class" is disclaimed apart from the mark.
For Sail Boats.
Claims use since March, 1938.

Ser. No. 416,461. GAR WOOD INDUSTRIES, INC., Marysville, Mich. Filed Feb. 27, 1939.

Overniter

For Motor Boats.
Claims use since Jan. 1, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 404,703. GENERAL CABLE CORPORATION, New York, N. Y. Filed Mar. 31, 1938.

SUPER 6-T

For Insulated Electrical Wires and Cables.
Claims use since Jan. 10, 1938.

Ser. No. 410,706. PERAVIA S. A., Bern, Switzerland. Filed Sept. 17, 1938.

PERAVIA

For Magneto Generators, Including Coils and Switch Apparatus.
Claims use since Jan. 1, 1938.

Ser. No. 414,617. AUTO RADIATOR MANUFACTURING CO., Chicago, Ill. Filed Jan. 9, 1939.

Pathfinder

For Electric Direction Signals for Vehicles, and Switches for Such Signals.
Claims use since Sept. 1, 1938.

Ser. No. 416,469. LODGE PLUGS LIMITED, Rugby, England. Filed Feb. 27, 1939.

SINTOX

For Ceramic Insulators for Sparking Plugs.
Claims use since Sept. 23, 1936.

Ser. No. 416,797. EPCO MANUFACTURING COMPANY, INC., South Bend, Ind. Filed Mar. 8, 1939.

EPCO

For Electric Lamps—Namely, Floor Lamps, Bridge Lamps, Table Lamps, Boudoir Lamps.
Claims use since Jan. 5, 1938.

Ser. No. 417,237. OMAR H. SHEPARD, doing business as Shepard Battery Co., Bridgeport, Conn. Filed Mar. 18, 1939.

THE HEART OF THE CAR

For Storage Batteries.
Claims use since January, 1924.

Ser. No. 418,205. NAXON TELESIGN CORP., Chicago, Ill. Filed Apr. 13, 1939.

TELESIGN

For Gaseous-Tube and Filament Lamp Electric Signs, Electric Sign Flashing and Control Devices, and/or Equipment for the Above.
Claims use since Apr. 15, 1938.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 418,155. LOUIS KESSLER, doing business as Novelty Games Co., New York, N. Y. Filed Apr. 12, 1939.

PRIZO

For Card Number Game Played After the Manner of Bingo or Tit-Tat-To.
Claims use since Jan. 18, 1939.

Ser. No. 418,323. WRIGHT & MCGILL CO., Denver, Colo. Filed Apr. 15, 1939.

CLAW HOOKS



The word "Hooks" is disclaimed apart from the mark.
For Fish Hooks.
Claims use since Apr. 27, 1931.

Ser. No. 418,761. L. BAMBERGER & CO., Newark, N. J. Filed Apr. 27, 1939.

CRAX-PAR

For Golf Balls.
Claims use since Apr. 8, 1939.

Ser. No. 418,822. CORTLAND LINE COMPANY, INC., Cortland, N. Y. Filed Apr. 28, 1939.

KASTRIKE

For Fish Lines.
Claims use since Oct. 17, 1938.

Ser. No. 418,823. CORTLAND LINE COMPANY, INC., Cortland, N. Y. Filed Apr. 28, 1939.

KEEN KASTER

For Fish Lines.
Claims use since Oct. 17, 1938.

Ser. No. 418,857. SYNCRO DEVICES, INCORPORATED, Detroit, Mich. Filed Apr. 28, 1939.

Rollatelle

For Games and Game Apparatus and Particularly Marble Board Games.
Claims use since Apr. 14, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 410,759. THE WAYNE PUMP COMPANY, Fort Wayne, Ind. Filed Sept. 19, 1938. Under section 5b of the act of 1905 as amended in 1920.

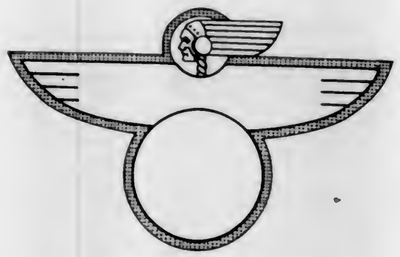
Wayne

Applicant claims ownership of trade-mark registration Ct. = 80,295 effected Nov. 29, 1910, under the 10-year proviso and renewed, and of = 151,631 so registered on Feb. 7, 1922. Applicant claims ownership of Ct. = 139,425 registered under the 1905 act.

For Lubricating Pumps Not Including Grease Pumps, Lubricating Tanks, Air Compressors, Car Washers, Car Hoists and Lifts, and Grease Pumps.

Claims use since 1891, specifically it has been used since 1910 for lubricating pumps; since 1910 for lubricating tanks; since 1915 for air compressors; since 1929 for car washers; since 1930 for car hoists; and since 1928 for grease pumps.

Ser. No. 411,038. RED JACKET MANUFACTURING COMPANY, Davenport, Iowa. Filed Sept. 27, 1938.



For Water Systems—Namely, Shallow Well Water Systems, Pumping Units, Deep Well Pumping Heads, Deep Well Water Systems, Pumps, Namely, Pitcher Pumps, Suction Lift Pumps, Hand Pumps, Windmill Pumps, Force Pumps, Cistern Pumps, Pump Jacks, Tank Pumps, Gear Pumps, Pump Cylinders, Centrifugal Pumps, Jet Pumps, and Mechanically Operated Base Exchange Water Softeners, and Parts for Each of said Devices.
Claims use since Sept. 1, 1937.

Ser. No. 412,183. HAMILTON WATCH COMPANY, Lancaster, Pa. Filed Oct. 29, 1938. Under section 5b of the act of 1905 as amended in 1920.

HAMILTON

For Milling Cutters, Reamers, Pins, and Studs for Machinery, Gears, Screw Drivers, Case Openers for Watches and Other Instruments, Springs for Finishing and Drilling Machines, Watch Maker's Tools, Such as Screw Drivers, Knives, and Case Openers; Pawls, Wrenches, Cams, Cam Followers, Gear Trains and Escape Wheels for Machinery, Instruments and Watches; Ratchets, Ratchet Assemblies, Ratchet Pawl Assemblies, Taps, and Trigger Pins for Machinery and Instruments, Swaging Dies, Punching Dies, Stamping Dies, Engraving Dies, Special Abrading Cutters, Holding Clamps, Buffing Stands, Gimbals for Instruments, Burring Machines, Mechanical Speed Controls for Instruments, Saws, Arbors, Mechanical Time Fuse Gear Train Mechanisms, Steel Balls for Bearings, Special Production Tools, Electric Razors, Sets of Special Tools, Shafts, Burring Cutters, Bushings and Posts for Machinery; Milling Machines, Ratchet Hob Cutters, Socket Wrenches, Shaving Dies, Blanking Dies, Combination Instrument Case Openers and Cutters, Machinery Repair Tools, Namely, Pliers, and Assembly Bars; Machine Drills, Drill Presses, Broaches, Machine Pinion Shafts, Pulleys, Punches, Slotting Saws, Synthetic Jewels for Machinery and Instruments, Knives.
Claims use since Oct. 8, 1915.

Ser. No. 414,565. HEPWORTH & GRANDAGE LIMITED, Bradford, England. Filed Jan. 6, 1939.

HEPLEX

For Engine Pistons.
Claims use since Dec. 16, 1932.

Ser. No. 416,113. HENRY T. SCHIFF, Chicago, Ill. Filed Feb. 16, 1939.



The portrait is fanciful. Applicant disclaims the representation of an electric razor and the manner of its use apart from the mark shown.
For Electric Razors.
Claims use since Dec. 31, 1937.

Ser. No. 416,381. THE NUTEX COMPANY, Philadelphia, Pa. Filed Feb. 24, 1939.

LYRIC

For Single Edge and Double Edge Razors and Razor Blades.
Claims use since Apr. 15, 1935.

Ser. No. 417,182. PERFECTION MANUFACTURING CORPORATION, Minneapolis, Minn. Filed Mar. 17, 1939.

MASTER MILKER

The word "Milker" is disclaimed.
For Milking Machines.
Claims use since July 1, 1930.

Ser. No. 417,183. PERFECTION MANUFACTURING CORPORATION, Minneapolis, Minn. Filed Mar. 17, 1939.

MILKMASTER

For Milking Machines.
Claims use since Dec. 1, 1938.

Ser. No. 417,309. SNAP-ON TOOLS CORPORATION, Kenosha, Wis. Filed Mar. 20, 1939.

Octo-Grip

The word "Grip" is disclaimed apart from the mark.
For Wrenches, Screw Drivers, and Hand Turning Tools.
Claims use since Dec. 22, 1938.

Ser. No. 417,360. CROWN SPECIALTIES, INC., Newark, N. J. Filed Mar. 22, 1939.

Silver Comet

For Carpet Sweepers.
Claims use since Feb. 6, 1939.

Ser. No. 417,450. GAR WOOD INDUSTRIES, INC., Detroit, Mich. Filed Mar. 24, 1939.

TRUCKVEYOR

For Endless Belt, Portable Conveyors.
Claims use since June 14, 1938.

Ser. No. 417,466. MAN-SEW PINKING ATTACHMENT CORP., New York, N. Y. Filed Mar. 24, 1939.

PINKMASTER

For Pinking Machines and Parts Thereof.
Claims use since Feb. 7, 1939.

Ser. No. 417,546. MAN-SEW PINKING ATTACHMENT CORP., New York, N. Y. Filed Mar. 27, 1939.

MAN-SEW

For Pinking Machines and Parts Thereof.
Claims use since Feb. 7, 1939.

Ser. No. 418,059. PUDARK AND THOMPSON, Chicago, Ill. Filed Apr. 10, 1939.

Ambassador

For Electric Dry Shavers.
Claims use since Mar. 15, 1939.

Ser. No. 418,061. WILLIAM LOUIS ROESSNER, doing business as Y-Burn, Chicago, Ill. Filed Apr. 10, 1939.

Y-BURN

For Portable Fire Extinguishers.
Claims use since Jan. 7, 1932.

Ser. No. 418,062. WILLIAM LOUIS ROESSNER, doing business as Y-Burn, Chicago, Ill. Filed Apr. 10, 1939.

WINNER

For Portable Fire Extinguishers.
Claims use since Apr. 7, 1939.

Ser. No. 418,186. CHRISTIE-LUCAS COMPANY, Rochester, N. Y. Filed Apr. 13, 1939.

BULL'S EYE

For Paper Drill.
Claims use since Mar. 15, 1939.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 404,269. THE SHEFFIELD GAGE CORPORATION, Dayton, Ohio. Filed Mar. 19, 1938.

NITRIMAX

For Gauging Devices—Namely, Plug Gages, Ring Gages, and Thread Gages.
Claims use since Feb. 14, 1938.

Ser. No. 404,270. THE SHEFFIELD GAGE CORPORATION, Dayton, Ohio. Filed Mar. 19, 1938.

NITRIGAGE

For Gauging Devices—Namely, Plug Gages, Ring Gages, Thread Gages, Snap Gages, Spline Gages; and Special Gages for Precision Measuring, Checking, and Comparing Dimensions.
Claims use since Feb. 14, 1938.

Ser. No. 404,797. CHARLES CHOPNICK, New York, N. Y. Filed Apr. 2, 1938.

IMPERIAL

For Cameras, Photographic Optical Filters, Enlarging Equipment, Range-Finders, Filter-Kits, Microscopes, and Telescopes.
Claims use since Feb. 1, 1938.

Ser. No. 410,705. PERAVIA S. A., Bern, Switzerland. Filed Sept. 17, 1938.

PERAVIA

For Speedometers, Fuel Quantity Gauges, Manifold Pressure Gauges, Altimeters, Speed Indicators, Vertical Speed Indicators, Turn and Bank Indicators, and Compasses.
Claims use since Jan. 1, 1938.

Ser. No. 415,581. BRUNSVIGA-MASCHINENWERKE GRIMME, NATALIS & CO. AKT.-GES., Brunswick, Germany. Filed Feb. 4, 1939. Under 10-year proviso.

BRUNSVIGA

For Calculating and Adding Machines.
Claims use since July 19, 1892.

Ser. No. 418,170. SELSI COMPANY, INC., New York, N. Y. Filed Apr. 12, 1939.

MAREL

For Prism Binoculars, Prism Monoculars, Sport Glasses, Opera Glasses, and Field Glasses.
Claims use since Nov. 21, 1938, on field glasses; since May 2, 1936, on other goods.

CLASS 27

Horological Instruments

Ser. No. 404,645. GENERAL TIME INSTRUMENTS CORPORATION, New York, N. Y., and La Salle, Ill. Filed Mar. 30, 1938.

MANOR

For Clocks and Watches.
Claims use since Mar. 12, 1938.

Ser. No. 416,226. ROBERT L. HUNTER, doing business as The Nautical Clock Company, Norfolk, Va. Filed Feb. 21, 1939.

THE Seven Seas

For Watches, Clocks, Chronometers, and Dials Therefor.
Claims use since Dec. 24, 1938.

Ser. No. 416,679. BENRUS WATCH CO., INC., New York, N. Y. Filed Mar. 4, 1939.

SKY CHIEF

For Watches and Watches and Attached Bracelets Sold as a Unit.
Claims use since Mar. 1, 1936.

Ser. No. 417,853. SUPPLEE-BIDDLE HARDWARE CO., Philadelphia, Pa. Filed Apr. 4, 1939.



The drawing is lined for silver.
For Clocks.
Claims use since October, 1935.

Ser. No. 417,959. FABRIQUES MOVADO, La Chaux-de-Fonds, Switzerland. Filed Apr. 7, 1939.

ACVATIC

For Watches and Parts of Watches.
Claims use since Feb. 13, 1936.

Ser. No. 418,047. LONGINES-WITTNAUER WATCH CO. INC., New York, N. Y. Filed Apr. 10, 1939.

TIME and SPACE

For Watches and Clocks.
Claims use since March, 1937.

Ser. No. 418,048. LONGINES-WITTNAUER WATCH CO. INC., New York, N. Y. Filed Apr. 10, 1939.

HALL of FAME of TIME

For Watches and Clocks.
Claims use since July, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 412,056. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass. Filed Oct. 26, 1938.



COMMUNITY PLATE

The word "Plate" is disclaimed apart from the mark.
For Silverplated Hollowware.
Claims use since Sept. 23, 1938.

Ser. No. 413,808. JEROME DREYFUSS, doing business as International Ring Company, Buffalo, N. Y. Filed Dec. 14, 1938.

I.R.C.

For Solid Gold Finger Rings.
Claims use since Oct. 1, 1927.

Ser. No. 416,955. INTERNATIONAL SILVER COMPANY, Meriden, Conn. Filed Mar. 11, 1939. Under 10-year proviso.

ROGERS

For Sterling Silver Articles of Flat-Ware and Hollow-Ware.
Claims use since June 1, 1887.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 417,887. FLORENZ NUSHOLTZ, St. Louis, Mo. Filed Apr. 5, 1939.



For Wiping Rags and Cloths.
Claims use since Aug. 1, 1933.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 416,572. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Filed Mar. 1, 1939.

MISSION BELL

For Pottery—Namely, Dinner Sets Composed of Plates, Bowls, Cups, Saucers, Platters, Serving Dishes, Sugar Bowls, Cream Pitchers, and Four Piece Bowl Sets, Jugs, Water Pitchers, Salt and Pepper Shakers, Tea Pots, Service, Chop, and Square Salad Plates.
Claims use since Sept. 2, 1938.

CLASS 32

Furniture and Upholstery

Ser. No. 416,131. CENTURY FURNITURE ASSOCIATES, INC., New York, N. Y. Filed Feb. 17, 1939.

HOME PLANNERS' Shop

For Furniture Such as for Bedrooms, Dining Rooms, and Living Rooms.
Claims use since Jan. 2, 1939.

Ser. No. 417,740. B. ALTMAN & Co., New York, N. Y. Filed Apr. 1, 1939.

young

homemakers

shop

No claim is made to the word "Shop" apart from the mark.

For Living Room Furniture, Bedroom Furniture, Dining Room Furniture, Library Furniture, Upholstered Furniture, Occasional Chairs, Card Tables and Chairs, Tables, Pedestals, Flower Stands, Consoles, Whatnots, Furniture Brackets, Desks, Bookcases, Book Shelves, Breakfronts, Household Cabinets, Picture Frames, Mirrors, Novelty Furniture, Box Springs, Mattresses, and Household Draft, Ornamental, Dressing, and/or Division Screens.

Claims use since Aug. 8, 1938.

Ser. No. 418,132. CHARAK FURNITURE COMPANY, Boston, Mass. Filed Apr. 12, 1939.

DEXBURY

For Furniture Made of Wood and Including Tables, Chairs, Couches, Beds, Cabinets, Cases, Desks, Dressers, Chests, Vanities.

Claims use since Nov. 25, 1938.

Ser. No. 418,451. SEALY, INCORPORATED, Pittsburgh, Pa. Filed Apr. 19,1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

POSTURE PILLOW

The word "Pillow" is disclaimed apart from the mark.

For Mattresses, Mattress Foundation Units, and Box Springs.

Claims use since Jan. 20, 1938.

Ser. No. 418,708. THE FORT MASSAC CHAIR COMPANY, Metropolis, Ill. Filed Apr. 26, 1939.

BABEE TENDA

For Combined Tables and Chairs for Infants and Juveniles.

Claims use since Jan. 6, 1937.

Ser. No. 418,902. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill. Filed Apr. 29, 1939.

FELTSOLATOR

For Mattresses.

Claims use since Jan. 15, 1939.

CLASS 33

Glassware

Ser. No. 414,336. CAPE COD ART GLASS CO., North Abington, Mass. Filed Dec. 30, 1938.



No claim is made to the words "Cape Cod Glass" apart from the mark.

For Glass Tableware and Decorative Glass of the Type Used in the Making of Table Tops, Candelabras, Mirrors, and Analogous Articles of Merchandise Made Wholly or Partly of Glass.

Claims use since September, 1937.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 405,371. CLIMAX REFLECTOR, INC., Canton, Ohio. Filed Apr. 16, 1938.

"ADJUSTOLITE"

For Reflectors Used for Store Window Lighting, and Display Lighting.

Claims use since February, 1938.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 418,377. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Apr. 17, 1939.



For Gaskets and Sheet Packing.

Claims use since Feb. 10, 1939.

Ser. No. 418,745. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio. Filed Apr. 26, 1939.

CAMEL

For Pneumatic Tires and Tubes for Vehicle Wheels.

Claims use since Feb. 3, 1939.

Ser. No. 418,776. THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Apr. 27, 1939.

HI-FLEX

For Pneumatic Vehicle Tires.

Claims use since May 18, 1938.

CLASS 36

Musical Instruments and Supplies

Ser. No. 404,206. ELECTRO ACOUSTIC PRODUCTS CO., Fort Wayne, Ind. Filed Mar. 18, 1938.

Duosonic

For Phonograph, Combination Recording and Projecting Phonograph, Supplies and Attachments Thereof.

Claims use since October, 1936.

Ser. No. 417,262. CHICAGO MUSICAL INSTRUMENT COMPANY, Chicago, Ill. Filed Mar. 20, 1939.

Maestrola

For Phonographs and Combination Radio-Phonographs.

Claims use since Mar. 16, 1939.

Ser. No. 417,993. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Apr. 7, 1939.

ZENITH

For Talking Machine Records.

Claims use since May 6, 1938.

CLASS 37

Paper and Stationery

Ser. No. 400,129. FRIEDRICH SCHÄFER, St. Gallen, Switzerland. Filed Nov. 24, 1937.

TEWEKA

For Clips Used for Fastening Wearing Apparel.

Claims use since July 18, 1933.

Ser. No. 412,853. EATON PAPER CORPORATION, Pittsfield, Mass. Filed Nov. 17, 1938.



Applicant is the owner of trade-mark registration Nos. 351,352 and 366,102.

For Typewriter Paper.

Claims use since Sept. 26, 1938; since 1893 for the word "Berkshire."

Ser. No. 417,330. COVERTEX COMPANY, Perth Amboy, N. J. Filed Mar. 21, 1939.

CEL-U-SEAL

For Adhesively Coated Transparent Film-Sheets.

Claims use since Jan. 2, 1938.

Ser. No. 417,500. GILES W. MILLSPAUGH, JR., Natchitoches, La. Filed Mar. 25, 1939.

"REC-O-MAG"

For Blank Record Sheets for Maintaining a Record of Certain Transactions Involved in the Magazine Trade.

Claims use since Oct. 1, 1938.

Ser. No. 417,762. C. HOWARD HUNT PEN CO., Camden, N. J. Filed Apr. 1, 1939.

Signature

For Pen Points.

Claims use since Mar. 20, 1939.

Ser. No. 418,209. PENN TOBACCO COMPANY, Wilkes-Barre, Pa. Filed Apr. 13, 1939.

FRESHTEX

For Wrapping Paper.

Claims use since Mar. 28, 1939.

CLASS 38

Prints and Publications

Ser. No. 413,403. GREENTREE PUBLISHERS, INC., Boston, Mass. Filed Dec. 2, 1938.



For Greeting Cards.

Claims use since Mar. 1, 1938.

Ser. No. 414,941. ANDRESEN, INCORPORATED, Pittsburgh, Pa. Filed Jan. 18, 1939.

THE Industrial PRESS

For Periodical.
Claims use since Dec. 24, 1938.

Ser. No. 417,170. GARDEX, INC., Michigan City, Ind. Filed Mar. 17, 1939.

The Living Soil
... ITS MODERN CARE

For Printed Articles Intermittently Published in a Series in Newspapers and Also Published in Leaflet Form.
Claims use since Feb. 1, 1938.

Ser. No. 417,432. THE ASSOCIATION OF 20-30 CLUBS, Sacramento, Calif. Filed Mar. 24, 1939.

The Twenty-Thirtian

For Magazine Published at Recurring Intervals.
Claims use since Oct. 1, 1926.

Ser. No. 417,486. THE BUZZA COMPANY, Minneapolis, Minn. Filed Mar. 25, 1939.

GÒÓFIES

For Greeting Cards.
Claims use since Feb. 16, 1939.

Ser. No. 417,916. JAY EMANUEL PUBLICATIONS, INC., Philadelphia, Pa. Filed Apr. 6, 1939.

THE
EXHIBITOR

For Weekly Magazine.
Claims use since Oct. 1, 1919.

CLASS 39
Clothing

Ser. No. 390,642. FARMERS FEDERATION INC., Asheville, N. C. Filed Mar. 29, 1937.

Mountain Maid

For Dresses, Coats, Outer Skirts and Hats for Women and Children, Wool Gloves, Socks, Stockings, and Scarfs.
Claims use since February, 1937.

Ser. No. 395,638. COOPERS, INCORPORATED, Kenosha, Wis. Filed July 26, 1937.

MASCULINIZED

For Men's Undergarments, Particularly Drawers.
Claims use since July 1, 1937.

Ser. No. 405,125. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., St. Louis, Mo., Akron and Cleveland, Ohio, Baltimore, Md., Denver, Colo., and Los Angeles, Calif. Filed Apr. 11, 1938.

The May Co.

DRESS PARADE

The word "Dress" and the name "The May Co." are disclaimed except as shown.
For Men's Dress, Negligee, and Sport Shirts.
Claims use since Oct. 31, 1936.

Ser. No. 407,068. MCLAURIN HOSIERY MILLS, Asheboro, N. C. Filed June 3, 1938.

ALPHA

For Men's Hosiery.
Claims use since Apr. 1, 1938.

Ser. No. 412,912. JOH. LAIB & CIE., Thurgau, Switzerland. Filed Nov. 18, 1938.

Enderma

For Underwear for Men, Women, and Children.
Claims use since Jan. 19, 1932.

Ser. No. 413,305. L. GREIF & BRO., INC., Baltimore, Md. Filed Nov. 30, 1938.

Wardrobe

For Men's Suits, Topcoats, Raincoats, Overcoats, Coats, Vests, and Trousers.
Claims use since Nov. 18, 1938.

Ser. No. 415,484. HARRY L. NEWMAN, New York, N. Y. Filed Feb. 1, 1939.

HERCULEAN
SUPER STRENGTH
COMBED YARN

The words "Strength" and "Combed Yarn" are disclaimed apart from the mark.
For Wearing Apparel—Namely, Ladies' and Misses' Dresses, Sweaters, Nightgowns, Slips, Panties, Girdles, and Brassières; Men's and Boys' Sweaters, Overalls, Undershirts, Shorts, Union Suits, Pajamas, Necktics, Scarfs, and Mufflers.
Claims use since Dec. 29, 1937.

Ser. No. 416,521. SMOOTH-FIT BRASSIERE CO., INC., New York, N. Y. Filed Feb. 28, 1939.

Libby Ann
TAILORED FOR THE MODERN WOMEN

No claim is made to "Tailored for the Modern Women" apart from the mark.
For Brassières, Girdles, and Slips.
Claims use since Nov. 1, 1938.

Ser. No. 416,522. SMOOTH-FIT BRASSIERE CO., INC., New York, N. Y. Filed Feb. 28, 1939.

Sta-Rite
FOUNDATIONS

The phrase "Sta-Rite Foundations" and the picture of a brassière are disclaimed except as shown. The picture of a woman is fanciful.
For Brassières, Girdles, and Slips.
Claims use since Nov. 1, 1938.

Ser. No. 417,044. LEE SPORTSWEAR CO., New York, N. Y. Filed Mar. 14, 1939.

WORLDS FAIR
BEACHWEAR
Fashioned By MARJORIE LEE

The wording "Beachwear Fashioned by Marjorie Lee" is disclaimed except as shown.
For Ladies' and Misses' Bathing Suits, Beach Capes, Combination Bathing Suits and Capes, Outershorts, and Halters.
Claims use since Mar. 8, 1938.

Ser. No. 417,110. THE LAMPL KNITWEAR COMPANY, Cleveland, Ohio. Filed Mar. 13, 1939.

TEEN-ERS by Lampl

The words "By" and "Lampl" are disclaimed apart from the mark.
For One, Two, and Three Piece Dresses, Sweaters, Blouses, and Knitted Coats for Women and Children, Same Being Made of Silk, Wool, Cotton, Rayon, and of a Mixture of Any and All of Such Materials of Woven and Knitted Fabrics.
Claims use since Nov. 1, 1938.

Ser. No. 417,141. PHIPPS HAT WORKS, INCORPORATED, New York, N. Y. Filed Mar. 16, 1939.

RAWAK

For Ladies' Hats.
Claims use since 1919.

Ser. No. 417,166. J. EDWARDS & COMPANY, Philadelphia, Pa. Filed Mar. 17, 1939.

FLEXIBLE SHANK
HITCHHIKERS
PERFECT RELAXER

Applicant disclaims the phrases "Flexible Shank" and "Perfect Relaxer" except as shown.
For Men's, Women's, and Children's Shoes and Slippers Made of Leather, Canvas, Fabric, or Compositions or Combinations Thereof.
Claims use since Mar. 1, 1939.

Ser. No. 417,232. NEW YORK GIRL COAT COMPANY, New York, N. Y. Filed Mar. 18, 1939.

Twinkle Tweed
EXCLUSIVE by YORK MODE

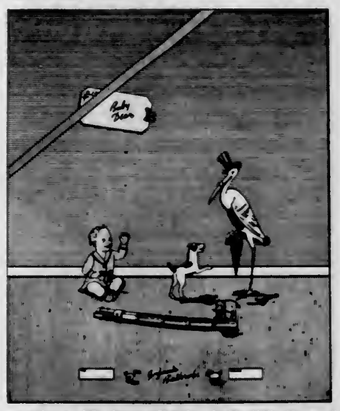
Applicant disclaims the words "Tweed" and "Exclusive by York Mode" apart from the mark.
For Ladies' and Children's Coats.
Claims use since Oct. 15, 1938.

Ser. No. 417,282. JAXTON CLOTHES COMPANY, INC., New York, N. Y. Filed Mar. 20, 1939.



For Men's and Students' Suits, Suit and Slack Ensembles, Sport Coats, and Slacks.
Claims use since June, 1937.

Ser. No. 417,356. B. & N. NOVELTY CO., New York, N. Y. Filed Mar. 22, 1939.



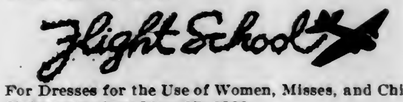
The notations "Infants Bathrobe", "No.", and "Color" are disclaimed apart from the mark. The picture is fanciful. The drawing is lined for blue and pink.
For Infants' Bathrobes, Infants' Nightgowns, Infants' Kimonos, Infants' Petticoats, and Infants' Sacques.
Claims use since Feb. 16, 1939.

Ser. No. 417,371. MISS GLAMOUR INC., New York, N. Y. Filed Mar. 22, 1939.



For Women's and Misses' Costume Ensemble Suits, Coats, Suits, and Dresses.
Claims use since Dec. 26, 1938.

Ser. No. 417,437. WILLIAM R. BROWN, Kansas City, Mo. Filed Mar. 24, 1939.



For Dresses for the Use of Women, Misses, and Children.
Claims use since Mar. 17, 1939.

Ser. No. 417,529. GARFINKEL & RITTER, New York, N. N. Y. Filed Mar. 27, 1939.

BRYN HALF

Applicant disclaims the word "Half".
For Women's Lingerie—Namely, Chemises, Panties, Nightgowns, Pajamas, Slips, Brassières, Negligees, and Corsets.
Claims use since Aug. 17, 1936.

Ser. No. 417,530. GARFINKEL & RITTER, New York, N. Y. Filed Mar. 27, 1939.

BRYN MITE

For Women's Lingerie—Namely, Chemises, Panties, Nightgowns, Pajamas, Slips, Brassières, Negligees, and Corsets.
Claims use since Feb. 11, 1938.

Ser. No. 417,531. GARFINKEL & RITTER, New York, N. Y. Filed Mar. 27, 1939.

BRYN VEE

Applicant disclaims the word "Vee".
For Women's Lingerie—Namely, Chemises, Panties, Nightgowns, Pajamas, Slips, Brassières, Negligees, and Corsets.
Claims use since Feb. 19, 1936.

Ser. No. 417,532. GARFINKEL & RITTER, New York, N. Y. Filed Mar. 27, 1939.

RITEMORE

For Women's Lingerie—Namely, Chemises, Panties, Nightgowns, Pajamas, Slips, Brassières, Negligees, and Corsets.
Claims use since Aug. 17, 1936.

Ser. No. 417,640. BREWSTER SHIRT CORPORATION, New York, N. Y. Filed Mar. 30, 1939.

THE SHIRT of the Month

Applicant disclaims "Shirt" apart from the mark.
For Men's Outer Shirts.
Claims use since Mar. 21, 1939.

Ser. No. 417,654. QUAKER HOSIERY COMPANY, INC., Philadelphia, Pa. Filed Mar. 30, 1939.

Legs are young in QUAKER Stockings

No claim is made to the word "Stockings" apart from the mark.
For Hosiery.
Claims use since May 15, 1937.

Ser. No. 417,758. GEORGE GOLDENBERG, INC., New York, N. Y. Filed Apr. 1, 1939.

Fairbrooke

For Ladies' and Misses' Coats, Suits, and Dresses.
Claims use since Dec. 15, 1938.

Ser. No. 417,839. I. JABLOW AND COMPANY, Philadelphia, Pa. Filed Apr. 4, 1939.

CAMPUS TOWNE

For Boys' Shirts, Shorts, Blouses, and Pajamas.
Claims use since July, 1933.

Ser. No. 417,843. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Filed Apr. 4, 1939.

Baby Mae

For Knit Gowns, Knit Kimonos, Terry Cloth Bibs, and Textile Diapers.
Claims use since Mar. 17, 1939.

Ser. No. 417,917. KELLER, HEUMANN & THOMPSON COMPANY, INC., Rochester, N. Y. Filed Apr. 6, 1939.

The Finisher

For Men's Suits and Overcoats.
Claims use since Mar. 8, 1939.

Ser. No. 418,011. MALCOLM KENNETH CO., Boston, Mass., and New York, N. Y. Filed Apr. 8, 1939.

GOYARTZ

For Men's Overcoats, Topcoats, and Suits.
Claims use since 1932.

Ser. No. 418,012. WENDELL P. MURRAY, Gloversville, N. Y. Filed Apr. 8, 1939.

FRIENDLY HAND

For Gloves of Leather and Fabric and Combinations of Said Materials.
Claims use since Jan. 15, 1933.

Ser. No. 418,075. BONWIT TELLER, INC., New York, N. Y. Filed Apr. 10, 1939.

"SCENE SHIFTERS"

For Women's and Misses' Dresses, Teagowns, Coats, Suits, Outer Skirts, Blouses, Sweaters, Bathing Suits, Hosiery, Scarfs, Gloves Made of Leather and Fabric, Nightgowns, Negligees, Slips, Panties, and Brassières.
Claims use since March, 1939.

Ser. No. 418,081. WOHL SHOE COMPANY, St. Louis, Mo. Filed Apr. 10, 1939.

La Scala

For Leather Dance Slippers.
Claims use since Sept. 1, 1937.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 414,653. DRUGGISTS' SUPPLY CORPORATION, New York, N. Y. Filed Jan. 10, 1939.

TRIM

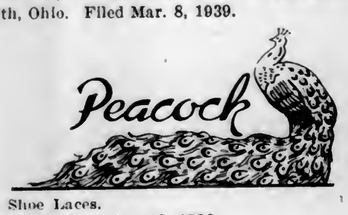
For Combs.
Claims use since Dec. 22, 1938.

Ser. No. 416,099. HAMILTON WATCH COMPANY, Lancaster, Pa. Filed Feb. 16, 1939. Under section 5b of the act of 1905 as amended in 1920.

Hamilton

For Leather and Fabric Articles—i. e., Straps, Cords, Bands, Ribbons, and Bracelets for Watches and other Jewelry.
Claims use since 1918.

Ser. No. 416,811. MITCHELLACE, INCORPORATED, Portsmouth, Ohio. Filed Mar. 8, 1939.



For Shoe Laces.
Claims use since Oct. 10, 1938.

Ser. No. 418,145. THE GLEMBY COMPANY, INC., New York, N. Y. Filed Apr. 12, 1939.

Jean

For Hair Goods—Namely, Switches, Transformations, Bob Wigs, Puffs, Curls, Ringlets, Wavelets, Pin Curls, Hair Rolls, and Crepe Wool Used in Foundations for the Hair.
Claims use since Oct. 18, 1938.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 390,208. SEYMOUR S. GOLDEN, doing business as Seymour S. Golden Co., New York, N. Y. Filed Mar. 18, 1937.

GOLDEN G FABRICS

The word "Fabrics" is disclaimed apart from the mark.
For Piece Goods of Wool or Part Wool or Combined Wool and Other Fibrous Materials, Such as Cotton, Silk, and Rayon.
Claims use since August, 1936.

Ser. No. 405,173. METAKLOTH COMPANY, Lodi, N. J. Filed Apr. 12, 1938.

BLANCO-PEL

For Cotton Piece Goods and Woven Cotton Fabrics.
Claims use since Jan. 30, 1936.

Ser. No. 416,303. THE YORKSHIRE DYEING & PROOFING CO. LIMITED, Middleton, England. Filed Feb. 21, 1939.

"Yorpal"

For Piece Goods Composed Wholly or Mainly of Cotton.
Claims use since Sept. 8, 1927.

Ser. No. 416,347. TABIN-PICKER & COMPANY, Chicago, Ill. Filed Feb. 23, 1939.

Baskella

For Rayon Piece Goods.
Claims use since Nov. 1, 1938.

Ser. No. 416,487. TABIN-PICKER & COMPANY, Chicago, Ill. Filed Feb. 27, 1939.

Honeysuckle

For Spun Rayon Piece Goods.
Claims use since Nov. 1, 1938.

Ser. No. 417,347. THE J. ROSSIE VELVET COMPANY, Mystic, Conn. Filed Mar. 21, 1939.

Mystic-vel

For Pile Fabrics in the Piece of Rayon and Silk.
Claims use since Mar. 16, 1939.

Ser. No. 417,489. COURTAULDS, LIMITED, London, England. Filed Mar. 25, 1939.

VISCANA

For Rayon Piece Goods.
Claims use since 1938.

Ser. No. 417,627. SANDERS MANUFACTURING COMPANY, Philadelphia, Pa. Filed Mar. 29, 1939.

HI-FELLA

For Piece Goods of Wool Used in Manufacturing Boys' Clothing.
Claims use since Feb. 3, 1939.

CLASS 43

Thread and Yarn

Ser. No. 417,488. COURTAULDS, LIMITED, London, England. Filed Mar. 25, 1939.

VISCANA

For Rayon Yarn.
Claims use since 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 412,652. FRED MEYER, INC., Portland, Oreg. Filed Nov. 12, 1938.

FIFTH AVENUE

For Hot Water Bottles, Fountain Syringes, and Combination Bottle and Syringe.
Claims use since July 1, 1936.

Ser. No. 417,203. CURVLITE PRODUCTS, INC., New York, N. Y. Filed Mar. 18, 1939.

CURVLITE

For Surgical Retractors, Tongue Depressors, Cheek Retractors, Deep Throat Depressors, Transilluminators (That is, Illuminating Devices for Transillumination), Beam Probes, Mirror Probes, Vaginal Probes, Rectal Probes, and Ear Speculums.
Claims use since May 1, 1937.

Ser. No. 418,510. BLOOMINGDALE BROS., INC., New York, N. Y. Filed Apr. 21, 1939.

LABRATEST

For Hot Water Bottles and Syringes.
Claims use since Aug. 10, 1937.

Ser. No. 418,565. CROWN RUBBER COMPANY, Los Angeles, Calif. Filed Apr. 22, 1939.

Poppys

PROPHYLACTICS

No claim is made to the word "Prophylactics" apart from the mark.
For Sheath Prophylactics, Including Rubber Articles, for the Prevention of Contagious Diseases.
Claims use since Feb. 25, 1939.

Ser. No. 418,566. CROWN RUBBER COMPANY, Los Angeles, Calif. Filed Apr. 22, 1939.

ESQUIRE

PROPHYLACTICS

No claim is made to the word "Prophylactics" apart from the mark.
For Sheath Prophylactics, Including Rubber Articles, for the Prevention of Contagious Diseases.
Claims use since Feb. 25, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 417,073. THE YORKE BEVERAGES, INC., Yonkers, N. Y. Filed Mar. 14, 1939.



No claim is made to the words "Ginger Fizz" apart from the mark.
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used in Making the Same.
Claims use since December, 1938.

Ser. No. 417,258. C. C. CALLAWAY, JR., Atlanta, Ga. Filed Mar. 20, 1939.

Gold Dot

For Nonalcoholic, Maltless Carbonated Beverages Sold as Soft Drinks and Syrups and Extracts Used in Making Same.
Claims use since Feb. 3, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 392,924. HAROLD HAIN, doing business as Hain Pure Food Co., Los Angeles, Calif. Filed May 18, 1937.

VEGE-JELL

The word "Jell" is disclaimed apart from the mark.
For Gelatin Dessert Preparation and a Pudding Preparation.
Claims use since Oct. 1, 1933.

Ser. No. 398,385. WILLIAM A. BRAIDEN, Antonito, Colo. Filed Oct. 12, 1937.

T BONE RANCH

For Beef Cattle.
Claims use since Aug. 1, 1923.

Ser. No. 402,201. PASTENE & CO., INC., doing business as Pagliaccio Products Co. and Splendor Products Co., New York, N. Y. Filed Jan. 21, 1938.



The drawing is lined for red and green.
For Canned Vegetables and Canned Tomato Paste.
Claims use since June 1, 1934.

Ser. No. 407,739. MANUEL ORTEGA, doing business as Mellow Brand Products Co., New York, N. Y. Filed June 21, 1938.

Almonrich

For Syrups Comprised of the Concentrated Essence of Almond.
Claims use since June 3, 1938.

Ser. No. 411,793. MARLIN B. RASMUSSON, doing business as Frigid Process Company, Sacramento, Calif. Filed Oct. 19, 1938.

BINGO

For Fruit Ices.
Claims use since Mar. 1, 1938.

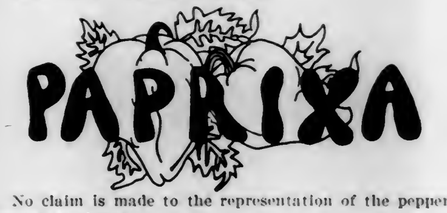
Ser. No. 412,245. WILLIAM AMERISE, also doing business as Hazleton Macaroni Co., Hazleton, Pa. Filed Nov. 1, 1938.

Italian Maide



The portrait is fanciful. No claim is made to the words "Italian Maide" apart from the mark.
For Tomato Paste, Macaroni, Canned Fish, Canned Soups, Tomato Sauce with Mushrooms, Cheese, Hot Crushed Red Peppers, Mexican Ceci Garbanzos, Canned Vegetables, Canned Tomatoes.
Claims use since February, 1918.

Ser. No. 413,488. H. SCHOENFELD & SONS, INC., New York, N. Y. Filed Dec. 5, 1938.



No claim is made to the representation of the peppers except as shown.
For Spices.
Claims use since June 11, 1937.

Ser. No. 413,996. THE LUCERNE CREAM AND BUTTER COMPANY, Oakland, Calif. Filed Dec. 19, 1938.

CREAM O' THE CROP

For Eggs.
Claims use since Sept. 14, 1935.

Ser. No. 414,950. JOHN HEINZKILL, doing business as John Heinzkill Soap Works, Appleton, Wis. Filed Jan. 18, 1939.

GOLDEN SEAL

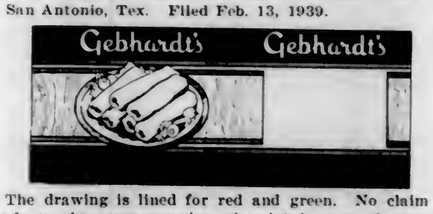
For Cheese Rennet.
Claims use since October, 1936.

Ser. No. 415,404. THE LUCERNE CREAM AND BUTTER COMPANY, also doing business as Lucerne Cream and Butter Company, Oakland, Calif. Filed Jan. 30, 1939.



The representation of the eggs is disclaimed apart from the mark.
For Eggs.
Claims use since Mar. 28, 1938.

Ser. No. 415,983. GEBHARDT CHILI POWDER COMPANY, San Antonio, Tex. Filed Feb. 13, 1939.



The drawing is lined for red and green. No claim is made to the representation of a label or to the representation of the goods apart from the mark.
For Canned Tamales.
Claims use since Aug. 1, 1937.

Ser. No. 416,250. WARD DANIELS, Montalvo, Calif. Filed Feb. 20, 1939.

GOOD ADVICE

For Fresh Citrus Fruit.
Claims use since Jan. 25, 1939.

Ser. No. 417,085. ERNEST DONOUGHER, doing business as E. Donougher Cocoanut Products Co., San Francisco, Calif. Filed Mar. 15, 1939.



E. DONOUGHER
COCOANUT PRODUCTS CO.

No claim is made to the words "E. Donougher Cocoanut Products Co." apart from the mark.
For Syrup Extracted from Cocoanuts.
Claims use since Dec. 12, 1938.

Ser. No. 417,115. BURGESS SUPPLY CO., INC., New York, N. Y. Filed Mar. 16, 1939.

EGG-A-DEX

The syllable "Egg" is disclaimed apart from the mark.
For Paste in the Nature of a Combination of Albumen and a Sweetening Agent for Use in the Manufacture of Confectionery.
Claims use since Feb. 1, 1939.

Ser. No. 417,209. THE FOOD SERVICE, Decatur, Ill. Filed Mar. 18, 1939.



No claim is made to the words "Food Products" apart from the mark.
For Various Food Products, Particularly Jelly, Horseradish, Barbecue Sauce, Pickles, Mush, Potato Chips, and Potato Sticks—i. e., a Specially Prepared Food Product.
Claims use since Jan. 1, 1939.

Ser. No. 417,676. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Mar. 29, 1939.

ROLLEX

For Prepared Mixture for the Making of Cakes, Rolls, Doughnuts, Bread, and Other Pastry Products.
Claims use since May 7, 1938.

Ser. No. 417,716. TEAGUE-MCKEVETT ASSOCIATION, Santa Paula, Calif. Filed Mar. 31, 1939.

COMPASS

For Fresh Citrus Fruit.
Claims use since Jan. 1, 1915.

Ser. No. 417,717. TEAGUE-MCKEVETT ASSOCIATION, Santa Paula, Calif. Filed Mar. 31, 1939.

Golden Bowl

Applicant is proprietor of registration No. 89,397, of Dec. 10, 1912.
For Fresh Citrus Fruit.
Claims use since Mar. 8, 1912.

Ser. No. 417,746. COAST FISHING COMPANY, Wilmington, Calif. Filed Apr. 1, 1939.

FLAKIES

For Canned Tuna Fish Flakes.
Claims use since Mar. 23, 1939.

Ser. No. 417,895. TRANSIT GRAIN & COMMISSION COMPANY, Fort Worth, Tex. Filed Apr. 5, 1939.

Vitrena

For Poultry and Stock Feed.
Claims use since Feb. 1, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 402,510. CENTRAL BREWERIES, INC., East St. Louis, Ill. Filed Jan. 31, 1938.

Central
Royal

For Beer.
Claims use since Sept. 16, 1935.

Ser. No. 417,385. OLD DUTCH BREWERS, INC., Brooklyn, N. Y. Filed Mar. 22, 1939.

HALF MOON

For Beers and Ales.
Claims use since Mar. 20, 1939.

Ser. No. 418,480. FOREST CITY BREWERY, INC., Cleveland, Ohio. Filed Apr. 20, 1939.

Waldorf
RED BAND

For Beer and Ale.
Claims use since Apr. 11, 1939.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 414,184. DISTILLERIE DE LA SUZE (SOCIÉTÉ ANONYME), Maisons-Alfort, France. Filed Dec. 24, 1938.



No claim is made to the representation of a bottle, nor to any of the words or numerals apart from the mark, except the words "Suze" and "Distillerie de la Suze".
For Alcoholic Liqueurs.
Claims use since July, 1936.

Ser. No. 418,843. LICORERIA MARIN INC., Mayaguez, P. R. Filed Apr. 28, 1939.



For Distilled Alcoholic Spirits—Namely, Rum, Gin, Alcoholic Cordials, and Liqueurs.
Claims use since Apr. 5, 1934.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 361,596. AQUA-SEC CORPORATION, New York, N. Y., now by change of name Ymba Corporation, assignor to Aqua-Sec Corporation, New York, N. Y., a corporation of New York (1937). Filed Feb. 19, 1935.



For Piece Goods of Cotton, Natural or Artificial Silk—Namely, Rayon, Acetate Silk, Linen, Wool, Mohair, and Other Fibres; Cellulosic Materials Made Solely or From Combinations of the Above Materials, Velour, Velvet and Other Textile Fabrics for Forming Articles of Manufacture, Namely, Apparel, Garments, Rugs, Bags, Hats, Shoes, Gloves, Etc. Treated by a Special Process to Render the Same Waterproof or Water Spot-Proof and Otherwise Improve the Same.
Claims use since January, 1935.

Ser. No. 413,755. IVON BEAR CO., INC., New York, N. Y. Filed Dec. 9, 1938.

BERIQUE

For Ornamental Figures in the Nature of Statuettes.
Claims use since June 10, 1938.

Ser. No. 416,943. BRUCE'S MARBLE AND GRANITE WORKS, Fort Scott, Kans. Filed Mar. 11, 1939.

COLD BOND
VERMONT

Applicant disclaims the word "Vermont" apart from the mark.
For Granite Monuments.
Claims use since Sept. 27, 1938.

Ser. No. 418,212. STONE STRAW CORPORATION, Washington, D. C. Filed Apr. 13, 1939.

CAPITAL

For Fly Ribbons.
Claims use since Jan. 18, 1938.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 6, 1939

367,923. FOOD PRODUCTS—NAMELY, PARTIALLY COOKED POTATOES IN CANS. GEORGE P. MILLER, doing business as Merry Treat Foods Co., Naperville, Ill.

Filed March 13, 1936. Serial No. 375,946. PUBLISHED MARCH 28, 1939. Class 46.

367,924. SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR A COMBINATION OF THESE MATERIALS. THE UNITED STATES SHOE CORPORATION, Cincinnati, Ohio.

Filed December 24, 1936. Serial No. 387,150. PUBLISHED MARCH 1, 1938. Class 39.

367,925. CAKES. ANGELO PRODUCTS CO., Bridgeport, Conn.

Filed January 21, 1937. Serial No. 387,970. PUBLISHED MARCH 28, 1939. Class 46.

367,926. LEATHER SHOES. CURTIS-STEPHENS-EMBRY CO., Reading, Pa.

Filed May 20, 1937. Serial No. 393,024. PUBLISHED JULY 27, 1937. Class 39.

367,927. PHARMACEUTICAL AND MEDICATED JELLIES SUITABLE FOR TREATING DISTURBANCES AND INFECTIONS OCCURRING IN OR ON ANY OF THE MUCOUS MEMBRANES AND BODY CAVITIES, ETC. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.

Filed September 2, 1937. Serial No. 397,054. PUBLISHED MARCH 28, 1939. Class 6.

367,928. ELECTRIC MOTORS, ESPECIALLY ELECTRIC MOTORS FOR DRIVING PUMPS, ELECTRIC MOTORS FOR SUBMERGED DUTY, AND ACCESSORIES FOR SUCH MOTORS. ALFRED GOTZL, doing business as Garvenswerke Maschinen-Pumpen-und Waagenfabrik W. Garvens, Vienna, Austria.

Filed September 8, 1937. Serial No. 397,229. PUBLISHED MARCH 28, 1939. Class 21.

367,929. STRUCTURAL PARTS FOR TRAILERS. ROBERT WILLIAM POINTER, doing business as Pointer-Willamette Trailer Equipment Co., Portland, Oreg.

Filed September 29, 1937. Serial No. 397,952. PUBLISHED JANUARY 11, 1938. Class 19.

367,930. CANNED OLIVES. V. R. SMITH, doing business as V. R. Smith Olive Co., Lindsay, Calif.

Filed October 12, 1937. Serial No. 398,411. PUBLISHED MARCH 28, 1939. Class 46.

367,931. CHEMO-THERAPEUTIC AGENTS COMPRISING DERIVATIVES USEFUL FOR COMBATING INFECTIONS CAUSED BY STREPTOCOCCUS, COCCUS, ETC. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.

Filed October 19, 1937. Serial No. 398,690. PUBLISHED MARCH 28, 1939. Class 6.

367,932. INNER TUBES FOR PNEUMATIC TIRES, PACKINGS FOR SEALING ENGINE PARTS MADE OF COPPER, ASBESTOS, RUBBER, OR FIBER MATERIAL. DAIMLER-BENZ AKTIENGESELLSCHAFT, Stuttgart-Unterturkheim, Germany.

Filed November 11, 1937. Serial No. 399,603. PUBLISHED JANUARY 24, 1939. Class 35.

367,933. SOYBEAN FLOUR. THE GLIDDEN COMPANY, Cleveland, Ohio.

Filed November 12, 1937. Serial No. 399,660. PUBLISHED MARCH 28, 1939. Class 46.

367,934. ELECTRIC RANGES AND ELECTRIC HEATERS. TENNESSEE FURNITURE CORPORATION, Chattanooga, Tenn.

Filed November 29, 1937. Serial No. 400,258. PUBLISHED MARCH 28, 1939. Class 21.

367,935. BOOTS AND SHOES OF LEATHER AND FABRIC, AND COMBINATIONS THEREOF. LOUIS I. WEITZMAN, doing business as Weitzman Shoe Company, Newark, N. J.

Filed December 13, 1937. Serial No. 400,815. PUBLISHED MARCH 14, 1939. Class 39.

367,936. WOMEN'S AND MISSES' SLIPS, NIGHTGOWNS, PAJAMAS, PANTIES, PETTICOATS, CHEMISES, AND BANDEAUX. EPSTEIN UNDERWEAR CO., New York, N. Y.

Filed December 20, 1937. Serial No. 401,052. PUBLISHED MARCH 14, 1939. Class 39.

367,937. PERFUME, TOILET WATER, BRILLIANTINE, FACE POWDER, BATH OIL, BATH SALTS, BATH POWDER, TALCUM POWDER, SACHETS. LENTHERIC, INCORPORATED, New York, N. Y.

Filed January 11, 1938. Serial No. 401,803. PUBLISHED MARCH 28, 1939. Class 6.

367,938. EGG GRADING AND SORTING MACHINES. PHILADELPHIA METAL WORKS INCORPORATED, Philadelphia, Pa.

Filed January 19, 1938. Serial No. 402,099. PUBLISHED MARCH 28, 1939. Class 23.

367,939. CHEMICAL EXOTHERMIC HEATING ELEMENTS FOR PERMANENT WAVE APPARATUS. RILLING-ARNAO COMPANY, Minneapolis, Minn.

Filed January 20, 1938. Serial No. 402,142. PUBLISHED MARCH 28, 1939. Class 6.

367,940. HOG RINGS AND PIG RINGS. WM. E. PRATT MFG. CO., Joliet, Ill.

Filed January 24, 1938. Serial No. 402,276. PUBLISHED MARCH 28, 1939. Class 13.

367,941. WHISKY. CHARLES MUIRHEAD & SON, LTD., Edinburgh, Scotland.

Filed February 8, 1938. Serial No. 402,825. PUBLISHED MAY 31, 1938. Class 49.

367,942. COUGH DROPS, COUGH SYRUP, NOSE DROPS, LAXATIVE PILLS, AND COLD AND GRIPPE TABLETS. CUMBERLAND PHARMACAL COMPANY, Vineland, N. J.

Filed February 10, 1938. Serial No. 402,903. PUBLISHED MARCH 22, 1938. Class 6.

367,943. ELECTRIC FLOOD LIGHTS. S & M LAMP CO., Los Angeles, Calif.

Filed February 23, 1938. Serial No. 403,332. PUBLISHED MARCH 28, 1939. Class 21.

367,944. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS, EXTRACTS, AND FLAVORS USED IN MAKING THE SAME. CELO COMPANY OF AMERICA, Tampa, Fla.

Filed March 8, 1938. Serial No. 403,812. PUBLISHED APRIL 26, 1938. Class 45.

367,945. SCISSORS. HUGO PLÜMACHER, doing business as Grah & Plümacher, Solingen-Weyer, Germany.

Filed April 4, 1938. Serial No. 404,849. PUBLISHED MARCH 28, 1939. Class 23.

367,946. PERFUMERY. WAVERLY LABORATORIES, INC., New York, N. Y.

Filed April 4, 1938. Serial No. 404,878. PUBLISHED MARCH 28, 1939. Class 6.

367,947. CERAMIC WARE—NAMELY, CERAMIC SINKS. CERAMIC PRODUCTS COMPANY, Kewaunee, Wis.

Filed April 9, 1938. Serial No. 405,059. PUBLISHED MARCH 28, 1939. Class 13.

367,948. APPARATUS FOR WASHING AIR TO REMOVE FOREIGN MATERIAL SUCH AS DUST, PAINT, ACID FUMES, OR THE LIKE, THEREFROM. SCHMIEG SHEET METAL WORKS, Detroit, Mich.

Filed April 18, 1938. Serial No. 405,409. PUBLISHED MARCH 28, 1939. Class 34.

367,949. SHOES AND SLIPPERS MADE OF LEATHER, RUBBER, OR FABRIC, OR OF VARIOUS COMBINATIONS THEREOF. SALVADOR CUETARA, Boston, Mass.

Filed April 27, 1938. Serial No. 405,767. PUBLISHED AUGUST 23, 1938. Class 39.

367,950. DENTIFRICES. MARION V. REID, doing business as The No-D-Ka Company, West Springfield, Mass.

Filed May 7, 1938. Serial No. 406,100. PUBLISHED MARCH 28, 1939. Class 6.

367,951. SULPHUR AND SULPHUR-CONTAINING PRODUCTS FOR THE CONTROL OF PESTS ON VEGETATION. GENERAL CHEMICAL COMPANY, New York, N. Y.

Filed May 21, 1938. Serial No. 406,584. PUBLISHED MARCH 28, 1939. Class 6.

367,952. CLEANING PREPARATIONS USED AS CLEANSING AGENTS FOR REFRIGERATORS, SINKS, GARBAGE CANS, TOILET BOWLS, ENAMEL AND PORCELAIN SURFACES AND FOR OTHER HOUSEHOLD AND INDUSTRIAL CLEANING PURPOSES. GENERAL CHEMICAL COMPANY, New York, N. Y.

Filed May 23, 1938. Serial No. 406,638. PUBLISHED MARCH 28, 1939. Class 4.

367,953. GROCERY PRODUCTS, PARTICULARLY WHEAT FLOUR, CEREAL BREAKFAST FOOD, BISCUIT FLOUR, AND CAKE FLOUR. GENERAL MILLS, INC., Minneapolis, Minn.

Filed May 27, 1938. Serial No. 406,801. PUBLISHED MARCH 28, 1939. Class 46.

367,954. CANNED FRUITS AND VEGETABLES. DUKAT PRODUCTS COMPANY, INC., Hamtramck, Mich.

Filed June 16, 1938. Serial No. 407,539. PUBLISHED MARCH 28, 1939. Class 46.

367,955. ICE CREAM. FRANK DALEY, doing business as Pony Boy Express Ice Cream Co., Beverly, Mass.

Filed July 9, 1938. Serial No. 408,341. PUBLISHED MARCH 28, 1939. Class 46.

367,956. PATENT MEDICINE USED FOR DYSPEPSIA, HEARTBURN, ERUCTATION, NAUSEA, AND CATARRH OF THE STOMACH AND INTESTINES. PACIFIC MERCANTILE COMPANY, LTD., Honolulu, Territory of Hawaii.

Filed July 13, 1938. Serial No. 408,473. PUBLISHED MARCH 28, 1939. Class 6.

367,957. PHARMACEUTICAL PREPARATION FOR TREATMENT OF TOE ITCH, CRACKED TOES, AND ATHLETE'S FOOT. BIRMALA LABORATORIES, Birmingham, Ala.

Filed July 21, 1938. Serial No. 408,747. PUBLISHED MARCH 28, 1939. Class 6.

367,958. SPAGHETTI AND MACARONI. AMERICAN STORES COMPANY, Philadelphia, Pa.

Filed August 19, 1938. Serial No. 409,757. PUBLISHED MARCH 28, 1939. Class 46.

367,959. GIRDLES, FOUNDATION GARMENTS, BRASSIÈRES, SLIPS, AND PANTIES. CHEVETTE, INC., New York, N. Y.

Filed August 20, 1938. Serial No. 409,805. PUBLISHED MARCH 14, 1939. Class 39.

367,960. KNITTED RAYON FABRICS OF TUBULAR CONSTRUCTION. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.

Filed August 31, 1938. Serial No. 410,139. PUBLISHED MARCH 28, 1939. Class 42.

367,961. FRESH CITRUS FRUITS. MUTUAL CITRUS PRODUCTS CO., INC., Anaheim, Calif.

Filed September 6, 1938. Serial No. 410,300. PUBLISHED NOVEMBER 1, 1938. Class 46.

367,962. MEN'S SHOES MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITION, OR COMBINATIONS THEREOF. CALIFORNIA SHOES, LTD., Los Angeles, Calif.

Filed September 8, 1938. Serial No. 410,356. PUBLISHED MARCH 28, 1939. Class 39.

367,963. WOMEN'S AND MISSES' SHOES MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITION, OR COMBINATIONS THEREOF. CALIFORNIA SHOES, LTD., Los Angeles, Calif.

Filed September 8, 1938. Serial No. 410,357. PUBLISHED MARCH 28, 1939. Class 39.

367,964. HERB TONIC TABLETS FOR THE RELIEF OF ACID INDIGESTION, GAS, NAUSEA, HEARTBURN, ETC. EARLRICH & COMPANY, Cedarville, Ohio.

Filed September 12, 1938. Serial No. 410,459. PUBLISHED MARCH 28, 1939. Class 6.

367,965. WHEAT FLOUR, CANNED VEGETABLES, CANNED FRUITS, AND FRUIT PRESERVES. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex.

Filed September 15, 1938. Serial No. 410,588. PUBLISHED MARCH 28, 1939. Class 46.

367,966. CHEMICAL ADDITION AGENTS FOR FUELS AND LUBRICATING OILS FOR INTERNAL COMBUSTION ENGINES. PATENT FUELS & COLOR CORPORATION, Cincinnati, Ohio.

Filed September 15, 1938. Serial No. 410,608. PUBLISHED MARCH 28, 1939. Class 6.

367,967. HAIR PINS, NONELECTRICAL HAIR CURLERS, NONPRECIOUS METAL HAIR CLIPS, AND HAIR PIN CLIPS MADE OF SPRING METAL. FRANK FUSCALDO, doing business as Ace Pin Products Co., Chicago, Ill.

Filed September 19, 1938. Serial No. 410,731. PUBLISHED MARCH 14, 1939. Class 40.

367,968. ACID RESISTING SOLUTION USED IN ETCHING PROCESSES. JOHN S. GUNTERMAN, Phoenix, Ariz.

Filed September 19, 1938. Serial No. 410,733. PUBLISHED MARCH 21, 1939. Class 6.

367,969. GARDEN RAKES. W. FRED MCLEAN, Bay Shore, N. Y.

Filed September 20, 1938. Serial No. 410,796. PUBLISHED MARCH 28, 1939. Class 23.

367,970. QUICK HEALING SALVE OR OINTMENT. WALTER B. SELLMER, doing business as Selmolene Manufacturing Co., San Rafael, Calif.

Filed September 28, 1938. Serial No. 411,059. PUBLISHED MARCH 21, 1939. Class 6.

367,971. COAL, OIL, VAPOR, OR GAS INDIRECT HOT WATER HEATER. H. A. THRUSH & COMPANY, Peru, Ind.

Filed October 1, 1938. Serial No. 411,192. PUBLISHED MARCH 28, 1939. Class 34

367,972. COAL, OIL, VAPOR, OR GAS INDIRECT HOT WATER HEATER. H. A. THRUSH & COMPANY, Peru, Ind.

Filed October 1, 1938. Serial No. 411,193. PUBLISHED MARCH 28, 1939. Class 34.

367,973. SPUN RAYON AND ACETATE RAYON PIECE GOODS. A. STEINAM COMPANY, INC., New York, N. Y.

Filed October 6, 1938. Serial No. 411,347. PUBLISHED MARCH 28, 1939. Class 42.

367,974. SENSITIZED MOTION PICTURE FILM. VICTOR L. S. HAFNER, New York, N. Y.

Filed October 11, 1938. Serial No. 411,481. PUBLISHED MARCH 28, 1939. Class 26.

367,975. RUM. DESTILERIA SERRALLES, INC., Ponce, P. R.

Filed October 12, 1938. Serial No. 411,522. PUBLISHED MARCH 28, 1939. Class 49.

367,976. BAKERY GOODS — NAMELY, CRACKERS AND WAFERS. ASSOCIATED BISCUIT CO., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y.
Filed October 13, 1938. Serial No. 411,564. PUBLISHED MARCH 28, 1939. Class 46.

367,977. BACTERICIDE, GERMICIDE, AND DEODORANT. THE MATHIESON ALKALI WORKS (INC.), New York, N. Y.
Filed October 18, 1938. Serial No. 411,745. PUBLISHED DECEMBER 27, 1938. Class 6.

367,978. WOMEN'S SHOES MADE WHOLLY OR IN PART OF LEATHER AND FABRIC. DIAMOND SHOE COMPANY, New York, N. Y.
Filed October 19, 1938. Serial No. 411,772. PUBLISHED JANUARY 3, 1939. Class 39.

367,979. LADDER WEBBING. THOMAS FRENCH & SONS, LTD., New York, N. Y.
Filed October 19, 1938. Serial No. 411,774. PUBLISHED MARCH 21, 1939. Class 40.

367,980. NONALCOHOLIC, MALTLESS BEVERAGES AND SYRUPS, CONCENTRATES AND EXTRACTS FOR MAKING THE SAME. GREEN & GREEN INC., Houston, Tex.
Filed October 21, 1938. Serial No. 411,862. PUBLISHED MARCH 28, 1939. Class 45.

367,981. FABRIC RUCHING INTENDED FOR USE AS SHELF EDGING. THE CROMWELL PAPER COMPANY, Chicago, Ill.
Filed October 22, 1938. Serial No. 411,944. PUBLISHED MARCH 14, 1939. Class 40.

367,982. WASHING FLUID HAVING BLEACHING DISINFECTING, AND ANTISEPTIC PROPERTIES. MAX L. PONDER, Aberdeen, N. C.
Filed October 22, 1938. Serial No. 411,967. PUBLISHED MARCH 28, 1939. Class 6.

367,983. APPLIQUE EMBLEMS FOR USE ON ARTICLES OF CLOTHING, HOUSEHOLD LINENS, TEXTILES, AND HANDBAGS. FRANCES EMBLEMS, INC., New York, N. Y.
Filed October 25, 1938. Serial No. 412,027. PUBLISHED MARCH 28, 1939. Class 40.

367,984. CHEWING GUM. GUMAKERS OF AMERICA, INC., Clifton, Heights, Pa.
Filed October 29, 1938. Serial No. 412,182. PUBLISHED MARCH 28, 1939. Class 46.

367,985. BAKERY GOODS—NAMELY, CRACKERS AND WAFERS. ASSOCIATED BISCUIT CO., also doing business as Associated Biscuit Co., Inc., and Associated Biscuit Company, Inc., Salamanca, N. Y.
Filed November 2, 1938. Serial No. 412,281. PUBLISHED MARCH 28, 1939. Class 46.

367,986. WEARING APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, CORSETS, CORSELETTES, GIRDLES, BRASSIÈRES, UNDERWEAR, OUTER SHIRTS, AND SHIRTWAISTS. IDEAL LINEN MESH COMPANY, Poughkeepsie, N. Y.
Filed November 4, 1938. Serial No. 412,377. PUBLISHED MARCH 14, 1939. Class 39.

367,987. WOMEN'S AND MISSES' SHOES MADE OF FABRIC, LEATHER, AND COMBINATIONS THEREOF. SAKS & COMPANY, New York, N. Y.
Filed November 7, 1938. Serial No. 412,464. PUBLISHED MARCH 14, 1939. Class 39.

367,988. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed November 10, 1938. Serial No. 412,589. PUBLISHED JANUARY 10, 1939. Class 27.

367,989. CHOCOLATE COATED CANDIES, A CONFECTIONERY. CHERRY SPECIALTY COMPANY, Chicago, Ill.
Filed November 12, 1938. Serial No. 412,629. PUBLISHED MARCH 28, 1939. Class 46.

367,990. EYE SHIELDS. GRAY MILLER, JR., Westmount, Quebec, Canada.
Filed November 14, 1938. Serial No. 412,714. PUBLISHED MARCH 28, 1939. Class 26.

367,991. BOOTS, SHOES, AND SLIPPERS, OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,717. PUBLISHED MARCH 14, 1939. Class 39.

367,992. BOOTS, SHOES, AND SLIPPERS, OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,719. PUBLISHED MARCH 14, 1939. Class 39.

367,993. BOOTS, SHOES, AND SLIPPERS, OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. DAN PALTER, New York, N. Y.
Filed November 14, 1938. Serial No. 412,724. PUBLISHED MARCH 14, 1939. Class 39.

367,994. STEEL AND BRASS STRAIGHT AND SAFETY PINS AND SNAP FASTENERS. OSCAR R. PRICE, doing business as Varitex Company, New York, N. Y.
Filed November 14, 1938. Serial No. 412,731. PUBLISHED MARCH 14, 1939. Class 40.

367,995. MEN'S, WOMEN'S, AND CHILDREN'S OUTER CLOTHING—NAMELY, SUITS, OVERCOATS, TOPCOATS, TROUSERS, KNICKERS, RIDING HABITS, HATS, AND AVIATION HELMETS. LOUIS ROTH & CO. INC., Los Angeles, Calif.
Filed November 18, 1938. Serial No. 412,926. PUBLISHED MARCH 28, 1939. Class 39.

367,996. PUMPS. CHERRY-BURRELL CORPORATION, Chicago, Ill.
Filed November 19, 1938. Serial No. 412,944. PUBLISHED MARCH 28, 1939. Class 23.

367,997. ADHESIVE GUMS. PENICK & FORD, LTD. INCORPORATED, New York, N. Y.
Filed November 19, 1938. Serial No. 412,982. PUBLISHED MARCH 28, 1939. Class 5.

367,998. SYNTHETIC RESINOUS MATERIALS IN THE FORM OF SHEETS, RODS, OR TUBES. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed November 25, 1938. Serial No. 413,144. PUBLISHED JANUARY 17, 1939. Class 1.

367,999. WOMEN'S AND MISSES' DRESS SHOES MADE OF LEATHER. SAKS & COMPANY, New York, N. Y.
Filed November 29, 1938. Serial No. 413,277. PUBLISHED MARCH 28, 1939. Class 39.

368,000. MEN'S AND WOMEN'S TOPCOATS. LEOPOLD MORSE COMPANY, Boston, Mass.
Filed December 1, 1938. Serial No. 413,350. PUBLISHED MARCH 14, 1939. Class 39.

368,001. CLEANSER FOR GENERAL USE HAVING WATER SOFTENING PROPERTIES. HERBERT D. MATHEWS, doing business as Chick Laboratories, Bryan, Ohio.
Filed December 1, 1938. Serial No. 413,357. PUBLISHED MARCH 28, 1939. Class 4.

368,002. SHOES MADE OF LEATHER, RUBBER, OR FABRIC, OR COMBINATIONS OF SAID MATERIALS, SOLES, AND HEELS. CAMBRIDGE RUBBER COMPANY, Cambridge, Mass.
Filed December 5, 1938. Serial No. 413,472. PUBLISHED MARCH 14, 1939. Class 39.

368,003. BRASSIÈRES, GIRDLES, CORSETS, CORSELETTES, BANDEAUX, UNDERDRAWERS, UNDERSHIRTS, PANTIES, BLOOMERS, CHEMISES, AND SLIPS. FINEFORM BRASSIERE CO., INC., New York, N. Y.
Filed December 5, 1938. Serial No. 413,475. PUBLISHED MARCH 14, 1939. Class 39.

368,004. MEN'S, WOMEN'S, AND CHILDREN'S SHOES AND SLIPPERS OF LEATHER, RUBBER AND FRABRIC AND/OR COMBINATIONS THEREOF, ETC. STRAWBRIDGE & CLOTHIER, Philadelphia, Pa.
Filed December 5, 1938. Serial No. 413,491. PUBLISHED MARCH 14, 1939. Class 39.

368,005. ELECTRONIC AND AUDIO APPARATUS AND DEVICES—NAMELY, OSCILLATORS, ATTENUATORS, AUDIO AMPLIFIERS, AND LOUD SPEAKERS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed December 6, 1938. Serial No. 413,514. PUBLISHED MARCH 28, 1939. Class 21.

368,006. ARTIFICIAL TEETH. THE DENTAL MANUFACTURING COMPANY LIMITED, London, England.
Filed December 7, 1938. Serial No. 413,544. PUBLISHED MARCH 28, 1939. Class 44.

368,007. SHOES AND OVERSHOES MADE OF LEATHER, RUBBER, OR FABRIC, OR ANY COMBINATION THEREOF. FOOTRUE SHOE COMPANY, Brooklyn, N. Y.
Filed December 7, 1938. Serial No. 413,547. PUBLISHED MARCH 14, 1939. Class 39.

368,008. MEDICAL THERAPEUTIC AGENT DERIVED FROM THE ROOT OF THE CEANOTHUS AMERICANUS AND FOR USE PARTICULARLY IN THE TREATMENT OF CANCER. PHILLIPS-JOFFRION, New Orleans, La.
Filed December 7, 1938. Serial No. 413,560. PUBLISHED MARCH 21, 1938. Class 6.

368,009. LIQUEFIED PETROLEUM GAS, COMPRESSED GAS, COMPRESSED NATURAL GAS, LIQUEFIED PROPANE, LIQUEFIED BUTANE, AND LIQUEFIED ETHANE. SKELGAS COMPANY, Kansas City, Mo.
Filed December 7, 1938. Serial No. 413,569. PUBLISHED MARCH 21, 1939. Class 6.

368,010. PREPARATION FOR USE IN THE TREATMENT OF ATHLETE'S FOOT. DR. J. W. STANLY & SON, Wilmington, N. C.
Filed December 7, 1938. Serial No. 413,570. PUBLISHED MARCH 28, 1939. Class 6.

368,011. EFFERVESCENT ORGANIC GRANULAR COMPOUNDS USED AS AN ALKALIZER AND ANTACID FOR GASTRIC HYPERACIDITY. STAYNER CORPORATION, Berkeley, Calif.
Filed December 8, 1938. Serial No. 413,602. PUBLISHED MARCH 28, 1939. Class 6.

368,012. PIECE GOODS OF RAYON AND SILK. BUTLER BROTHERS, Chicago, Ill.
Filed December 12, 1938. Serial No. 413,702. PUBLISHED MARCH 28, 1939. Class 42.

368,013. CHEMICAL PREPARATIONS FOR FINISHING, SIZING, AND OTHERWISE PROCESSING TEXTILES AND TEXTILE FABRICS. AQUA-SEC CORP., New York, N. Y.
Filed December 13, 1938. Serial No. 413,770. PUBLISHED MARCH 28, 1939. Class 6.

368,014. NAIL POLISH AND ENAMEL. CHARM PRODUCTS INC., also doing business as Carlyle, Los Angeles, Calif.
Filed December 14, 1938. Serial No. 413,816. PUBLISHED MARCH 21, 1939. Class 6.

368,015. SALVE FOR TREATING ATHLETE'S FOOT. WALTER A. RIEMER, doing business as Riemer's Salve Co., Muskegon, Mich.
Filed December 15, 1938. Serial No. 413,879. PUBLISHED MARCH 28, 1939. Class 6.

368,016. COUGH SYRUP. ELLA TRACY, Bismarck, Mo.
Filed December 15, 1938. Serial No. 413,883. PUBLISHED MARCH 28, 1939. Class 6.

368,017. WOMEN'S, GIRLS', AND CHILDREN'S SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. WOHL SHOE COMPANY, St. Louis, Mo.
Filed December 15, 1938. Serial No. 413,888. PUBLISHED MARCH 14, 1939. Class 39.

368,018. TEXTILE BINDINGS INTENDED FOR USE ON BLANKETS. FREYDBERG BROS., INC., Stamford, Conn.
Filed December 16, 1938. Serial No. 413,904. PUBLISHED MARCH 14, 1939. Class 40.

368,019. PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, DUSTING POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, SACHET, COLD CREAMS, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS. PARFUMES CHARBERT, INC., New York, N. Y.
Filed December 16, 1938. Serial No. 413,910. PUBLISHED MARCH 28, 1939. Class 6.

368,020. DRAPERY AND UPHOLSTERY FABRICS DESCRIBED AS FOLLOWS—PILE FABRICS USING MOHAIR, RAYON, AND COTTON MATERIAL; FLAT GOODS USING WOOLEN, COTTON, AND MOHAIR MATERIAL; AND TAPESTRIES, DAMASKS, BROCADES, LINENS, AND SILKS. EDWIN RAPHAEL CO. INC., Chicago, Ill.
Filed December 16, 1938. Serial No. 413,911. PUBLISHED MARCH 28, 1939. Class 42.

368,021. COUGH SYRUPS. KILE C. HARDESTY, Fort Wayne, Ind.
Filed December 17, 1938. Serial No. 413,944. PUBLISHED MARCH 21, 1939. Class 6.

368,022. AUTOMOBILE BODY AND FENDER STRAIGHTENING TOOL. FREDERICK J. HAUSCHILD, doing business as F. J. Hauschild Manufacturing Company, Oneonta, N. Y.
Filed December 17, 1938. Serial No. 413,945. PUBLISHED MARCH 28, 1939. Class 23.

368,023. CORDIALS. JOSEPH KRIEG-FINK COMPANY, Morrisville, Pa.
Filed December 17, 1938. Serial No. 413,951. PUBLISHED MARCH 28, 1939. Class 49.

368,024. SEASONING OR FLAVORING FOR PORK SAUSAGE, MEAT LOAF, OR OTHER FOODS. ARCHER CHASE & COMPANY, Tacoma, Wash.
Filed December 14, 1938. Serial No. 413,965. PUBLISHED MARCH 28, 1939. Class 46.

368,025. FACE POWDER, COLD CREAM, VANISHING CREAM, FOUNDATION CREAM, LIP STICK, ROUGE. HOUSE OF WESTMORE INC., New York, N. Y.
Filed December 19, 1938. Serial No. 413,990. PUBLISHED MARCH 21, 1939. Class 6.

368,026. COSMETIC OILS, TOILET LOTIONS, COLOGNES, HAIR RINSES, BATH SALTS, BATH HERBS, SACHETS, DUSTING POWDERS, AND TALCUM POWDERS. R. H. MACY & CO., INC., New York, N. Y.
Filed December 20, 1938. Serial No. 414,035. PUBLISHED MARCH 21, 1939. Class 6.

368,027. LINIMENT FOR RELIEF OF RHEUMATISM, SPRAINS, MUSCULAR ACHES, AND PAINS. HORACE J. NICHOLAS, Perry, Maine.
Filed December 20, 1938. Serial No. 414,038. PUBLISHED MARCH 28, 1939. Class 6.

368,028. GIMP. RUSSELL FRASER WIRE COMPANY, New York, N. Y., now by change of name Fraser Manufacturing Co., Inc.
Filed December 20, 1938. Serial No. 414,045. PUBLISHED MARCH 14, 1939. Class 40.

368,029. CENTRIFUGAL CREAM SEPARATORS. THE GALLOWAY COMPANY, INC., Waterloo, Iowa.
Filed December 21, 1938. Serial No. 414,066. PUBLISHED MARCH 28, 1939. Class 23.

368,030. MACHINES USED FOR DETERMINING AND CORRECTING THE STATIC OR DYNAMIC BALANCE, OR BOTH, OF AUTOMOBILE WHEELS AND OTHER MACHINE ELEMENTS TO BE OPERATED AT HIGH ROTATIVE SPEEDS. HENRY C. SCHILDMEIER, doing business as H. C. Schildmeier Company, Indianapolis, Ind.
Filed December 21, 1938. Serial No. 414,082. PUBLISHED MARCH 28, 1939. Class 26.

368,031. PHOTOGRAPHIC OBJECTIVES, PHOTOGRAPHIC LENSES, PHOTOGRAPHIC DIFFUSION DISKS, LIGHT POLARIZING SCREENS AND HOLDERS THEREFOR, ADJUSTABLE FILTER HOLDERS FOR ATTACHING FILTERS TO OBJECTIVES, PHOTOGRAPHIC PORTRAIT DIFFUSION DISK HOLDERS FOR ATTACHING DIFFUSION DISKS TO OBJECTIVES, PHOTOGRAPHIC DIFFUSION DISK HOLDERS FOR ATTACHING DIFFUSION DISKS TO OBJECTIVES. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 22, 1938. Serial No. 414,098. PUBLISHED MARCH 28, 1939. Class 26.

368,032. STUFFED TOYS, TENNIS RACQUETS, TENNIS BALLS, BASEBALLS AND BATS, FOOTBALLS, BASKETBALLS, GOLF BALLS AND GOLF CLUBS, BADMINTON SETS, ROLLER SKATES, AND ICE SKATES. GIMBEL BROTHERS, INC., New York, N. Y.
Filed December 22, 1938. Serial No. 414,103. PUBLISHED MARCH 28, 1939. Class 22.

368,033. WATER BUCKETS, TOOL BOXES SOLD EMPTY IN THE TRADE, OIL CANS, GARBAGE CANS, CLOTHES BASKETS, BARRELS, VACUUM BOTTLES, VACUUM JUGS. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,126. PUBLISHED MARCH 28, 1939. Class 2.

368,034. HAND OPERATED LAUNDRY WASHING MACHINES, CLOTHES WRINGERS, WASH BOARDS, WASH TUBS, AND CLOTHES PINS. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,129. PUBLISHED MARCH 28, 1939. Class 24.

368,035. PREPARATION FOR USE AS A SCALP CONDITIONER, AND FOR CORRECTING DANDRUFF, ITCHING SCALP AND UNRULY HAIR. BEN FISHMAN, doing business as Three Fold Products Co., Louisville, Ky.
Filed December 23, 1938. Serial No. 414,145. PUBLISHED MARCH 28, 1939. Class 6.

368,036. SUNGLASSES. INLAID OPTICAL CORPORATION, Providence, R. I.
Filed December 23, 1938. Serial No. 414,152. PUBLISHED MARCH 28, 1939. Class 26.

368,037. UNDERCOATING OR SURFACE PRIMER. RINSHED-MASON COMPANY, Detroit, Mich.
Filed December 27, 1938. Serial No. 414,239. PUBLISHED MARCH 28, 1939. Class 16.

368,038. DOG FOOD. PET KITCHENS, INC., Cold Spring and New York, N. Y.
Filed December 28, 1938. Serial No. 414,271. PUBLISHED MARCH 28, 1939. Class 46.

368,039. CHEMO-THERAPEUTIC AGENT USED IN THE TREATMENT OF A METABOLIC DEFICIENCY. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed December 28, 1938. Serial No. 414,276. PUBLISHED MARCH 28, 1939. Class 6.

368,040. BOTANIC-LAXATIVE TONIC. GEORGE J CHAOUSY, doing business as Sfregos Products Company, Long Island City, N. Y.
Filed December 27, 1938. Serial No. 414,325. PUBLISHED MARCH 28, 1939. Class 6.

368,041. RAZOR BLADES AND RAZORS. VULMAR SAFETY RAZOR CO., Chicago, Ill.
Filed December 29, 1938. Serial No. 414,326. PUBLISHED MARCH 28, 1939. Class 23.

368,042. AIR MOISTENERS AND CONDITIONERS. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed December 30, 1938. Serial No. 414,358. PUBLISHED MARCH 28, 1939. Class 34.

368,043. NECKTIE SILK, RAYON AND COTTON PIECE GOODS. W. THE LOSEN, INC., New York, N. Y.
Filed January 3, 1939. Serial No. 414,453. PUBLISHED MARCH 28, 1939. Class 42.

368,044. ANTIDIGESTANT PREPARATION. THE BURTON-LEVIN FOUNDATION, INC., Baltimore, Md.
Filed January 4, 1939. Serial No. 414,484. PUBLISHED MARCH 28, 1939. Class 6.

368,045. ELECTRIC LIGHT BULBS FOR AUTOMOBILES. DURA ELECTRIC LAMP CO. INC., Newark, N. J.
Filed January 4, 1939. Serial No. 414,488. PUBLISHED MARCH 28, 1939. Class 21.

368,046. WOMEN'S AND MISSES' SKIRTS, WAISTS, SUITS, COATS, DRESSES, AND PAJAMAS; CHILDREN'S ROMPERS, DRESSES, AND SUITS; MEN'S AND BOYS' SUITS, COATS, AND TROUSERS. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y.
Filed January 4, 1939. Serial No. 414,501. PUBLISHED MARCH 21, 1939. Class 39.

368,047. LADIES' GLOVES MADE WHOLLY OR PARTLY OF LEATHER. IAELAND BROS., Johnstown, N. Y.
Filed January 5, 1939. Serial No. 414,528. PUBLISHED MARCH 28, 1939. Class 39.

368,048. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. MONUMENT BOTTLING CO., INC., Indianapolis, Ind.
Filed January 5, 1939. Serial No. 414,529. PUBLISHED MARCH 28, 1939. Class 45.

368,049. HAT BRAID MADE OF RAYON FABRIC. ARMAND SCHWAB & CO., INC., New York, N. Y.
Filed January 5, 1939. Serial No. 414,536. PUBLISHED MARCH 28, 1939. Class 40.

368,050. PREPARATION IN THE FORM OF A SIRUP, ELIXIR, AND IN TABLET AND CAPSULE FORM, ALL CONTAINING IRON AND COPPER, AND FOR USE IN TREATING ANEMIC CONDITIONS AND AS A TONIC. U. S. STANDARD PRODUCTS COMPANY, Woodworth, Wis.
Filed January 5, 1939. Serial No. 414,543. PUBLISHED MARCH 21, 1939. Class 6.

368,051. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. FRENCH, SHRINER & URNER MANUFACTURING CO., Boston, Mass.
Filed January 6, 1939. Serial No. 414,560. PUBLISHED MARCH 28, 1939. Class 39.

368,052. WOMEN'S AND MISSES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SAKS & COMPANY, New York, N. Y.
Filed January 6, 1939. Serial No. 414,578. PUBLISHED MARCH 28, 1939. Class 39.

368,053. LUBRICANT IMPREGNATED BEARINGS FOR MACHINERY. CHRYSLER CORPORATION, Highland Park, Mich.
Filed January 7, 1939. Serial No. 414,591. PUBLISHED MARCH 28, 1939. Class 23.

368,054. LADIES' AND CHILDREN'S SLIPS, PANTIES, BRASSIÈRES, NIGHTGOWNS, PAJAMAS, CHEMISES, BED JACKETS, VESTS, AND BLOOMERS. MAID O'TROY, INC., New York, N. Y.
Filed January 7, 1939. Serial No. 414,614. PUBLISHED MARCH 28, 1939. Class 39.

368,055. DEPILATORY PRODUCT FOR THE REMOVAL OF HAIR. SELMA PRODUCTS, INC., Los Angeles, Calif.
Filed January 9, 1939. Serial No. 414,645. PUBLISHED MARCH 21, 1939. Class 6.

368,056. PERFUME, TOILET WATER, SKIN LOTION, COLD CREAM, FACE POWDER, SACHETS, DUSTING POWDER, TALCUM POWDER, COMPACT POWDER, COMPACT ROUGE, BATH SALTS, BRILLIANTINE, LIPSTICK, AND BANDOLINE. HOUBIGANT, INC., New York, N. Y.
Filed January 10, 1939. Serial No. 414,660. PUBLISHED MARCH 28, 1939. Class 6.

368,057. TYPEWRITER RIBBONS, CARBON PAPERS. A. P. LITTLE, INC., Rochester, N. Y.
Filed January 10, 1939. Serial No. 414,664. PUBLISHED MARCH 28, 1939. Class 11.

368,058. LINIMENT FOR RELIEVING MUSCULAR SORENESS, STRAINS, SPRAINS, AND BRUISES. KRO-NO LINIMENT CO., Jersey City, N. J.
Filed January 11, 1939. Serial No. 414,701. PUBLISHED MARCH 28, 1939. Class 6.

368,059. PHARMACEUTICAL PREPARATION FOR TREATMENT OF MYALGY, NEURALGIES, SCIATICA, ARTHRITIS, LUMBAGO, PLEXUS, BRACHALGY, BRACHI-ALGIES, AND MERALGIA PARESTHETICA. ACIFORM SALES CORPORATION, Chicago, Ill.
Filed January 12, 1939. Serial No. 414,716. PUBLISHED MARCH 21, 1939. Class 6.

368,060. PHARMACEUTICAL PREPARATION FOR TREATMENT OF MYALGY, NEURALGIES, SCIATICA, ARTHRITIS, LUMBAGO, PLEXUS BRACHALGY, BRACHI-ALGIES, AND MERALGIA PARESTHETICA. ACIFORM SALES CORPORATION, Chicago, Ill.
Filed January 12, 1939. Serial No. 414,717. PUBLISHED MARCH 21, 1939. Class 6.

368,061. MEDICINES AND PHARMACEUTICAL PREPARATIONS—NAMELY, PREPARATIONS FOR THE TREATMENT OF COUGHS, BRONCHITIS, ASTHMA, INFLUENZA, WHOOPING-COUGH, CATARRH. INTERNATIONAL AFFILIATED CORPORATION, New York, N. Y.
Filed January 12, 1939. Serial No. 414,739. PUBLISHED MARCH 28, 1939. Class 6.

368,062. FUNGICIDES FOR ADDITION TO PAINTS. MER-Q-REE, INCORPORATED, Bethesda, Md.
Filed January 12, 1939. Serial No. 414,748. PUBLISHED MARCH 28, 1939. Class 6.

368,063. PILE FABRICS IN THE PIECE. ARTHUR SEDLAK COMPANY, INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,756. PUBLISHED MARCH 28, 1939. Class 42.

368,064. SAFETY PINS AND SNAP FASTENERS. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed January 13, 1939. Serial No. 414,773. PUBLISHED MARCH 28, 1939. Class 40.

368,065. SAFETY PINS AND SNAP FASTENERS. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed January 13, 1939. Serial No. 414,774. PUBLISHED MARCH 28, 1939. Class 40.

368,066. SLIDE FASTENERS. IDEAL FASTENER CORPORATION, New York, N. Y.
Filed January 13, 1939. Serial No. 414,783. PUBLISHED MARCH 28, 1939. Class 13.

368,067. PERFUMES AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed January 13, 1939. Serial No. 414,787. PUBLISHED FEBRUARY 21, 1939. Class 6.

368,068. CREPE PAPER FLOWERS STIFFENED WITH SELF HARDENED PLASTICS. MARIMAC NOVELTY CO., New York, N. Y.
Filed January 13, 1939. Serial No. 414,788. PUBLISHED MARCH 28, 1939. Class 40.

368,069. COTTON AND RAYON PIECE GOODS USED IN THE MANUFACTURE OF WOMEN'S WEARING APPAREL. W. E. MCKAY & CO., New York, N. Y.
Filed January 13, 1939. Serial No. 414,792. PUBLISHED MARCH 28, 1939. Class 42.

368,070. MEDICATED POWDER TO BE USED FOR THE TREATMENT OF ATHLETE'S FOOT AND AS A DEODORANT POWDER. THE MENNEN COMPANY, Newark, N. J.
Filed January 13, 1939. Serial No. 414,793. PUBLISHED MARCH 21, 1939. Class 6.

368,071. WOMEN'S AND MISSES' BLOUSES, SWEATERS, DRESSES, COATS, SUITS, OUTER SKIRTS, AND HATS. BONWIT TELLER, INC., New York, N. Y.
Filed January 14, 1939. Serial No. 414,812. PUBLISHED MARCH 28, 1939. Class 39.

368,072. FRESH VEGETABLES, FRESH DECIDUOUS AND CITRUS FRUITS, AND CANTALOUPES. C. F. CLARK AND SON, Sunderland, Mass.
Filed January 14, 1939. Serial No. 414,821. PUBLISHED MARCH 28, 1939. Class 46.

368,073. COTTONSEED CAKE AND MEAL USED FOR LIVESTOCK AND POULTRY FEED. RULE-JAYTON COTTON OIL CO., Stamford, Tex.
Filed January 14, 1939. Serial No. 414,835. PUBLISHED MARCH 28, 1939. Class 46.

368,074. PACKAGED SOUPS. CHARLES R. TOWRY, Tulsa, Okla.
Filed January 14, 1939. Serial No. 414,844. PUBLISHED MARCH 28, 1939. Class 46.

368,075. SWEATERS, POLO SHIRTS, LEATHER COATS, MACKINAWS, BATHING SUITS, BATHING HATS, BATHING SHOES, WORK SHIRTS, WORK TROUSERS, WORK COATS, PAJAMAS, ETC. UNITED KNITWEAR, INCORPORATED, Cincinnati, Ohio.
Filed January 14, 1939. Serial No. 414,845. PUBLISHED MARCH 28, 1939. Class 39.

368,076. PLANT SPRAY. AGRICULTURAL INSECTICIDE CO. INC., Belle Glade, Fla.
Filed January 16, 1939. Serial No. 414,854. PUBLISHED MARCH 21, 1939. Class 6.

368,077. STOMACHIC AND ALTERATIVE PREPARATION. THE CONRAD COMPANY, Atlanta, Ga.
Filed January 16, 1939. Serial No. 414,860. PUBLISHED MARCH 21, 1939. Class 6.

368,078. PRECIOUS METALS, INCLUDING GOLD, SILVER, AND PLATINUM. WILDBERG BROS. SMELTING & REFINING CO., Los Angeles, Calif.
Filed January 16, 1939. Serial No. 414,905. PUBLISHED MARCH 28, 1939. Class 14.

368,079. BOOTS, SHOES, AND SLIPPERS, FABRIC, OR COMBINATIONS THEREOF. GENERAL SHOE CORPORATION, Nashville, Tenn.
Filed January 17, 1939. Serial No. 414,917. PUBLISHED MARCH 28, 1939. Class 39.

368,080. WRITING FLUIDS. LESTER H. APPEL, doing business as Blotterless Ink Co., New York, N. Y.
Filed January 18, 1939. Serial No. 414,942. PUBLISHED MARCH 28, 1939. Class 11.

368,081. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y.
Filed January 18, 1939. Serial No. 414,945. PUBLISHED MARCH 21, 1939. Class 6.

368,082. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF FATIGUE, WEAKNESS, AND NERVOUSNESS, AND FOR USE IN CONVALESCENCE. TOKALON CHEMICAL CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,971. PUBLISHED MARCH 21, 1939. Class 6.

368,083. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF FATIGUE, WEAKNESS, AND NERVOUSNESS, AND FOR USE IN CONVALESCENCE. TOKALON CHEMICAL CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,972. PUBLISHED MARCH 21, 1939. Class 6.

368,084. SOLVENTS FOR USE IN OPENING CLEANSING AND DEODORIZING DRAIN PIPES. HUNTER-NORTHCOTT CHEMICAL LABORATORIES, Los Angeles and Hollywood, Calif.
Filed January 19, 1939. Serial No. 414,997. PUBLISHED MARCH 21, 1939. Class 6.

368,085. DENTIFRICE. LACTONA, INCORPORATED, St. Paul, Minn.
Filed January 20, 1939. Serial No. 415,043. PUBLISHED MARCH 28, 1939. Class 6.

368,086. FURNITURE INCLUDING A SCREEN WOVEN FROM HIGH CARBON STEEL WIRE OR THE LIKE SUCH AS CHAIRS, SETTEES, STOOLS, OTTOMANS, GLIDERS, AND TABLES. LOUIS J. ZERBEE, doing business as L. J. Zerbee & Company, Bellefontaine, Ohio.
Filed January 20, 1939. Serial No. 415,065. PUBLISHED MARCH 28, 1939. Class 32.

368,087. FERTILIZER. MCMILLAN & HARRISON FERTILIZER CO., Mobile, Ala.
Filed January 21, 1939. Serial No. 415,085. PUBLISHED MARCH 28, 1939. Class 10.

368,088. MEN'S AND WOMEN'S WOOL HATS AND WOOL HAT BODIES. NEUMANN-ENDLER INCORPORATED, Danbury, Conn.
Filed January 21, 1939. Serial No. 415,087. PUBLISHED MARCH 28, 1939. Class 39.

368,089. MUSICAL MUTE. HARMON MUTE CO., Chicago, Ill.
Filed January 23, 1939. Serial No. 415,118. PUBLISHED MARCH 28, 1939. Class 36.

368,090. LIQUID HOG TONIC. KEWANEE LIQUIDS MANUFACTURING CO., Kewanee, Ill.
Filed January 23, 1939. Serial No. 415,126. PUBLISHED MARCH 28, 1939. Class 6.

368,091. DIAPERS. WALTER F. MECK, Schuylkill Haven, Pa.
Filed January 23, 1939. Serial No. 415,131. PUBLISHED MARCH 28, 1939. Class 39.

368,092. WINDMILLS. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill.
Filed January 23, 1939. Serial No. 415,150. PUBLISHED MARCH 28, 1939. Class 23.

368,093. GOLF BALLS. WALGREEN CO., Chicago, Ill.
Filed January 23, 1939. Serial No. 415,152. PUBLISHED MARCH 28, 1939. Class 22.

368,094. FRESH VEGETABLES AND CANTALOUPES. G. H. JONES & CO., INC., Brawley, Calif.
Filed January 24, 1939. Serial No. 415,165. PUBLISHED MARCH 28, 1939. Class 46.

368,095. ANTIFREEZE METHANOL. ESTATE OF GEORGE I. TREYZ, Cooks Falls, N. Y.
Filed January 25, 1939. Serial No. 415,237. PUBLISHED MARCH 28, 1939. Class 6.

368,096. CANNED PINEAPPLE AND CANNED PINEAPPLE JUICE FOR FOOD PURPOSES. HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Territory of Hawaii, and San Francisco, Calif.
Filed January 27, 1939. Serial No. 415,289. PUBLISHED MARCH 28, 1939. Class 46.

368,097. COMPOSITIONS CONTAINING BARIUM COMPOUNDS FOR USE IN THE REFINING OF FERRO-ALLOYS AND ALLOY STEELS. FERRO-ALLOYS INCORPORATED, Pittsburgh, Pa.
Filed January 28, 1939. Serial No. 415,332. PUBLISHED MARCH 28, 1939. Class 6.

368,098. SPARK PLUGS. GAMBLE STORES INCORPORATED, Minneapolis, Minn.
Filed January 28, 1939. Serial No. 415,333. PUBLISHED MARCH 28, 1939. Class 21.

368,099. ADHESIVE CEMENTS. VICHAL W. LAWRENCE, SR., doing business as Optoseal Company, Danville, Ky.
Filed January 28, 1939. Serial No. 415,340. PUBLISHED MARCH 28, 1939. Class 5.

368,100. ELECTRICAL TOASTERS, WAFFLE IRONS, EGG BOILERS, FOOD WARMERS, TEAKETTLES, AND COFFEEPOTS. L. CHENAULT PAINE, doing business as Patriot Products, Ltd., Los Angeles, Calif.
Filed January 28, 1939. Serial No. 415,344. PUBLISHED MARCH 28, 1939. Class 21.

368,101. TOOTH PASTE. PERX COMPANY, Chicago, Ill.
Filed January 28, 1939. Serial No. 415,346. PUBLISHED MARCH 28, 1939. Class 6.

368,102. TONIC FOR ANIMALS. TROPICAL FRUIT PRODUCTS, St. Louis, Mo.
Filed January 28, 1939. Serial No. 415,359. PUBLISHED MARCH 28, 1939. Class 46.

368,103. MEDICINAL PREPARATION RECOMMENDED FOR USE AS A TONIC, PRIMARILY IN THE TREATMENT OF SECONDARY ANEMIAS AND SIMILAR CONDITIONS. ROCHE-ORGANON, INC., Nutley, N. J.
Filed January 30, 1939. Serial No. 415,414. PUBLISHED MARCH 28, 1939. Class 6.

368,104. LAUNDRY STARCH. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill.
Filed January 30, 1939. Serial No. 415,420. PUBLISHED MARCH 21, 1939. Class 6.

368,105. FLAVORING CONSISTING OF POWDERED VANILLA BEAN AND SUGAR. CLARENCE V. GOFFINET, doing business as Standard Vanilla Company, Los Angeles, Calif.
Filed February 1, 1939. Serial No. 415,475. PUBLISHED MARCH 28, 1939. Class 46.

368,106. COTTON CANVAS PIECE GOODS. HYMAN LUBOW, doing business as The Linette Co., New York, N. Y.
Filed February 1, 1939. Serial No. 415,483. PUBLISHED MARCH 28, 1939. Class 42.

368,107. COTTON PIECE GOODS FOR SUITINGS. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed February 1, 1939. Serial No. 415,486. PUBLISHED MARCH 28, 1939. Class 42.

368,108. COFFEE AND TEA. BUSTELO COFFEE ROASTING CO., INC., New York, N. Y.
Filed February 2, 1939. Serial No. 415,495. PUBLISHED MARCH 28, 1939. Class 46.

368,109. SALT. THE CAREY SALT CO., Hutchinson, Kans.
Filed February 2, 1939. Serial No. 415,498. PUBLISHED MARCH 28, 1939. Class 46.

368,110. PERFUME. ISAAC H. HELLMAN, doing business as Hellman Laboratory, St. Louis, Mo.
Filed February 2, 1939. Serial No. 415,510. PUBLISHED MARCH 21, 1939. Class 6.

368,111. COSMETICS AND TOILET PREPARATIONS—NAMELY, PERFUME AND COLOGNE. ISAAC H. HELLMAN, doing business as Hellman Laboratory, St. Louis, Mo.
Filed February 2, 1939. Serial No. 415,511. PUBLISHED MARCH 21, 1939. Class 6.

368,112. LACE CURTAINS. PATCHOGUE-PLYMOUTH MILLS CORPORATION, New York, N. Y.
Filed February 2, 1939. Serial No. 415,520. PUBLISHED MARCH 28, 1939. Class 42.

368,113. SHEETS AND PILLOWCASES. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed February 2, 1939. Serial No. 415,521. PUBLISHED MARCH 28, 1939. Class 42.

368,114. CHEWING GUM. GUM INCORPORATED, Philadelphia, Pa.
Filed February 3, 1939. Serial No. 415,552. PUBLISHED MARCH 28, 1939. Class 46.

368,115. OINTMENT FOR TREATING BURNS, CUTS, CHAPPED HANDS, AND CHAFED SKIN. J. R. ARNOLD, doing business as Mountain State Products Co., Wellsburg, W. Va.
Filed February 4, 1939. Serial No. 415,575. PUBLISHED MARCH 21, 1939. Class 6.

368,116. MEDICINAL PREPARATION IN TABLET FORM FOR USE AS A LAXATIVE IN CASES OF HIGH BLOOD PRESSURE. J. R. ARNOLD, doing business as Mountain State Products Co., Wellsburg, W. Va.
Filed February 4, 1939. Serial No. 415,576. PUBLISHED MARCH 21, 1939. Class 6.

368,117. NONALCOHOLIC WATERY JELLY THAT IS ANTISEPTIC TO NASAL CAVITIES AND MEMBRANES, AND FOR CONGESTION AND ENGORGEMENT OF NASAL CATARRH EITHER ACUTE OR CHRONIC. J. R. ARNOLD, doing business as Mountain State Products Co., Wellsburg, W. Va.
Filed February 4, 1939. Serial No. 415,577. PUBLISHED MARCH 21, 1939. Class 6.

368,118. PERFUME. DOROTHY GRAY SALONS, Bloomfield, N. J.
Filed February 4, 1939. Serial No. 415,585. PUBLISHED MARCH 28, 1939. Class 6.

368,119. BLEACHING, DEODORIZING, AND DISINFECTING PREPARATIONS. THE SINCLAIR MANUFACTURING COMPANY, Toledo, Ohio.
Filed February 3, 1939. Serial No. 415,618. PUBLISHED MARCH 28, 1939. Class 6.

368,120. COLOGNE, SKIN LOTION, PERFUME, AFTER SHAVE LOTION, FACE POWDER, CLEANSING CREAM, ALL PURPOSE CREAM, FACE CREAM, HAND LOTION, HAND CREAM, TISSUE CREAM, TOILET WATER, AND HAIR OIL. CASTILIAN PRODUCTS CORP., Los Angeles, Calif.
Filed February 6, 1939. Serial No. 415,633. PUBLISHED MARCH 21, 1939. Class 6.

368,121. CLEANSING CREAM, ALL PURPOSE CREAM, SKIN LOTION, AFTER SHAVE LOTION, TISSUE CREAM, FACE CREAM, PERFUME, COLOGNE, FACE POWDER, HAND CREAM, HAND LOTION, AND HAIR OIL. CASTILIAN PRODUCTS CORP., Los Angeles, Calif.
Filed February 6, 1939. Serial No. 415,635. PUBLISHED MARCH 21, 1939. Class 6.

368,122. SURGICAL LIGATURES AND SUTURES. DAVIS & GECK, INC., Brooklyn, N. Y.
Filed February 6, 1939. Serial No. 415,637. PUBLISHED MARCH 28, 1939. Class 44.

368,123. ENZYME PREPARATION. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed February 6, 1939. Serial No. 415,666. PUBLISHED MARCH 28, 1939. Class 6.

368,124. PREPARATION FOR THE RELIEF OF COUGHS. THE TUBERLENE CO., Neenah, Wis.
Filed February 6, 1939. Serial No. 415,675. PUBLISHED MARCH 28, 1939. Class 6.

368,125. RECORD CARDS. STANLEY B. FREIBERG, Cincinnati, Ohio.
Filed February 7, 1939. Serial No. 415,711. PUBLISHED MARCH 28, 1939. Class 37.

368,126. COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, REFRESHING CREAMS, VANISHING CREAMS, ETC. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J.
Filed February 7, 1939. Serial No. 415,719. PUBLISHED MARCH 21, 1939. Class 6.

368,127. COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, REFRESHING CREAMS, VANISHING CREAMS, ETC. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J.
Filed February 7, 1939. Serial No. 415,721. PUBLISHED MARCH 21, 1939. Class 6.

368,128. CHEMICAL SUBSTANCE USED AS A DETERGENT OR AS AN EMULSIFYING OR WETTING OR DISPERSING AGENT IN TEXTILE AND OTHER INDUSTRIAL PROCESSING. ONYX OIL & CHEMICAL COMPANY, Jersey City, N. J.
Filed February 8, 1939. Serial No. 415,791. PUBLISHED MARCH 28, 1939. Class 6.

368,129. VITAMIN B-1 AND IRON, A TONIC IN TABLET FORM. RARE CHEMICALS, INC., Nepara Park, N. Y.
Filed February 9, 1939. Serial No. 415,860. PUBLISHED MARCH 28, 1939. Class 6.

368,130. LINIMENT FOR NEURALGIA, RHEUMATISM, STRAINS OF THE MUSCLES AND TENONS, AND THE LIKE. ANDREW REDZISZ, Jersey City, N. J.
Filed February 9, 1939. Serial No. 415,861. PUBLISHED MARCH 28, 1939. Class 6.

368,131. LAXATIVE PREPARATION. A. H. ROBINS COMPANY, INC., Richmond, Va.
Filed February 9, 1939. Serial No. 415,862. PUBLISHED MARCH 28, 1939. Class 6.

368,132. DRIP PANS, BAFFLES, AND SHAPED ELEMENTS USED IN REFRIGERATORS AND FORMED OF COMPRESSED FIBROUS MATERIAL HAVING LOW HEAT CONDUCTIVITY. HOMASOTE COMPANY, INC., Fernwood, N. J.
Filed February 10, 1939. Serial No. 415,891. PUBLISHED MARCH 28, 1939. Class 31.

368,133. ORGANIC PEROXIDES. LUCIDOL CORPORATION, Buffalo, N. Y.
Filed February 10, 1939. Serial No. 415,905. PUBLISHED MARCH 28, 1939. Class 6.

368,134. PREPARATION FOR THE TREATMENT OF AILMENTS OF THE STOMACH. TAM PRODUCTS, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,968. PUBLISHED MARCH 28, 1939. Class 6.

368,135. FLUID PREPARATIONS COMPRISING ETHYL CELLULOSE FOR USE IN SIZING AND FINISHING TEXTILE FABRICS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed February 13, 1939. Serial No. 415,980. PUBLISHED MARCH 28, 1939. Class 6.

368,136. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, BLEACH CREAMS, COLD CREAMS, ETC. JAQUET, INCORPORATED, New York, N. Y.
Filed February 15, 1939. Serial No. 416,066. PUBLISHED MARCH 28, 1939. Class 6.

368,137. HOSE OF ALL KINDS COMPOSED PRINCIPALLY OR WHOLLY OF RUBBER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 16, 1939. Serial No. 416,098. PUBLISHED MARCH 28, 1939. Class 35.

368,138. RUM, WHISKEY, GIN, BRANDY, AND ALCOHOLIC CORDIALS. UNITED DISTILLERS PRODUCTS CORP., Amston, Conn.
Filed February 16, 1939. Serial No. 416,125. PUBLISHED MARCH 28, 1939. Class 49.

368,139. MOUNTED SHADES, WINDOW SHADES, AND SHADE ROLLERS. THE COLUMBIA MILLS INC., New York, N. Y.
Filed February 17, 1939. Serial No. 416,133. PUBLISHED MARCH 28, 1939. Class 32.

368,140. MOUNTED SHADES, WINDOW SHADES, AND SHADE ROLLERS. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed February 17, 1939. Serial No. 416,134. PUBLISHED MARCH 28, 1939. Class 32.

368,141. TOY OF THE KIND CHARACTERIZED BY TWO BALLS CONNECTED RESPECTIVELY WITH A HANDLE BY STRINGS AND ADAPTED TO BE WHIRLED ABOUT THE HANDLE. JOHN J. CONWAY, doing business as The Conway Enterprises, Ansonia, Conn.
Filed February 17, 1939. Serial No. 416,136. PUBLISHED MARCH 28, 1939. Class 22.

368,142. BELTS AND BELTING COMPOSED PRINCIPALLY OR WHOLLY OF RUBBER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 17, 1939. Serial No. 416,139. PUBLISHED MARCH 28, 1939. Class 35.

368,143. DRIVE BELTS, PARTICULARLY BELTS OF THE TYPE COMMONLY KNOWN AS V-BELTS. THE MEDART COMPANY, St. Louis, Mo.
Filed February 17, 1939. Serial No. 416,152. PUBLISHED MARCH 28, 1939. Class 35.

368,144. NOVELTY TOY CRATES. CHESTER VAN TONGEREN, doing business as Dutch Novelty Shops, Holland, Mich.
Filed February 18, 1939. Serial No. 416,215. PUBLISHED MARCH 28, 1939. Class 22.

368,145. NOVELTY TOY—NAMELY, MINIATURE OUTDOOR TOILET. CHESTER VAN TONGEREN, doing business as Dutch Novelty Shops, Holland, Mich.
Filed February 18, 1939. Serial No. 416,216. PUBLISHED MARCH 28, 1939. Class 22.

368,146. NOVELTY TOY—NAMELY, MINIATURE DOG HOUSE. CHESTER VAN TONGEREN, doing business as Dutch Novelty Shops, Holland, Mich.
Filed February 18, 1939. Serial No. 416,217. PUBLISHED MARCH 28, 1939. Class 22.

368,147. DOLLS, RATTLES, AND TOPS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,230. PUBLISHED MARCH 28, 1939. Class 22.

368,148. PICTURE FRAMES AND WINDOW SHADES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,235. PUBLISHED MARCH 28, 1939. Class 32.

368,149. DOLLS. GEO. BORGFELDT CORPORATION, New York, N. Y.
Filed February 20, 1939. Serial No. 416,245. PUBLISHED MARCH 28, 1939. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

368,150. (CLASS 39. CLOTHING.) THE UNION COMPANY, Columbus, Ohio. Filed Sept. 21, 1936. Serial No. 383,495.

FONTAINE

For Women's and Misses' Hats, Leather and Fabric Gloves and Shoes, Underwear, and Corsets.
Claims use since June 1, 1936.

368,151. (CLASS 39. CLOTHING.) GEM-DANDY GARTER CO., Madison, N. C. Filed Nov. 24, 1936. Serial No. 385,928.

"Yoursize"

For Girdles.
Claims use since Oct. 15, 1936.

368,152. (CLASS 39. CLOTHING.) FRED W. MEARS HEEL COMPANY, INC., Boston, Mass. Filed Jan. 21, 1937. Serial No. 388,015.

BREASTLOCK

For Wood Heels.
Claims use since Dec. 28, 1936.

368,153. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SANDEL MANUFACTURING CO., Chicago, Ill. Filed Aug. 28, 1937. Serial No. 396,898.

Worthington
PERIOD
LAMPS

For Electric Portable Lamps.
Claims use since June 10, 1937.

368,154. (CLASS 39. CLOTHING.) HARRY'S SHOE STORE, INC., New Haven, Conn. Filed Dec. 2, 1937. Serial No. 400,374.

Barrie Ltd.

For Shoes, Boots, Overshoes, Composed of Leather, Rubber, Fabric, or Combinations Thereof, Socks, Stockings.
Claims use since Sept. 1, 1933.

368,155. (CLASS 39. CLOTHING.) BROOM AND NEWMAN, New York, N. Y. Filed Jan. 24, 1938. Serial No. 402,244.

Bobby Gray

For Men's and Ladies' Pajamas and Polo Shirts.
Claims use since Jan. 14, 1938.

368,156. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE W. S. TYLER COMPANY, Cleveland, Ohio. Filed Feb. 15, 1938. Serial No. 403,063.

FLAT-TOP

For Woven Wire Screens for Screening or Classifying Bulk Materials.
Claims use since August, 1936.

368,157. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE W. S. TYLER COMPANY, Cleveland, Ohio. Filed Feb. 15, 1938. Serial No. 403,064.

ROLLED-TOP

For Woven Wire Screens for Screening or Classifying Bulk Materials.
Claims use since August, 1936.

368,158. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CELO COMPANY OF AMERICA, Tampa, Fla. Filed Mar. 8, 1938. Serial No. 403,811.

CUBA
THE KOLA DRINK

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used in Making the Same.
Claims use since Nov. 30, 1935.

368,159. (CLASS 39. CLOTHING.) COMFORT SLIPPER CORPORATION, Boston, Mass. Filed Apr. 6, 1938. Serial No. 404,936.

Parkhill
FLEXIBLES

For Shoes and Slippers of Leather, Rubber, Fabric, or Combinations Thereof, for Men, Women, and Children.
Claims use since October, 1937.

368,160. (CLASS 39. CLOTHING.) THE HERRMANN HANDKERCHIEF COMPANY, INC., New York, N. Y. Filed Apr. 7, 1938. Serial No. 404,990.

SHEERSPUN

For Handkerchiefs and Scarfs.
Claims use since Mar. 22, 1938.

368,161. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) LEVY & BAUMANN, New York, N. Y. Filed Apr. 15, 1938. Serial No. 405,302.

NEVA-KOLD
Interlining

For Lambskin, Suede and Leather to be Cut and Used as Interlining in Garments.
Claims use since Mar. 31, 1938.

368,162. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Apr. 21, 1938. Serial No. 405,556.

Fastolite

For Venetian Blind Tape and Cord and Awning Braid and Tape.
Claims use Since Apr. 13, 1938.

368,163. (CLASS 39. CLOTHING.) LOGAN HEALTH GARMENT CO., Chicago, Ill. Filed Apr. 26, 1938. Serial No. 405,731.

Logan
HEALTH GARMENT

For Corsets and Girdles.
Claims use since Apr. 19, 1938.

368,164. (CLASS 39. CLOTHING.) GEORGE SCHULTZ, doing business as The George Glove Co., New York, N. Y. Filed Apr. 26, 1938. Serial No. 405,739.



For Gloves for Men and Women Made of Leather and Fabrics.
Claims use since Apr. 6, 1938.

368,165. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) THE TILDESLEY COAL CO., Cincinnati, Ohio. Filed Apr. 26, 1938. Serial No. 405,744.

VAPERFUMED

For Coal.
Claims use since Apr. 1, 1938.

368,166. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HARRY LATZ SERVICE, New York, N. Y. Filed May 7, 1938. Serial No. 406,096.

HANDI-FAN

For Fans for Hand Use.
Claims use since Apr. 30, 1938.

368,167. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MATCH KING, INC., Chicago, Ill. Filed May 9, 1938. Serial No. 406,142.

Churchill

For Electric Razors.
Claims use since Mar. 1, 1938.

368,168. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SCULLY SIGNAL COMPANY, Cambridge, Mass. Filed May 11, 1938. Serial No. 406,228.

"FASFILL"

For Portable Fill Pipe Connection.
Claims use since Apr. 6, 1938.

368,169. (CLASS 39. CLOTHING.) HAT CORPORATION OF AMERICA, Norwalk, Conn. Filed June 8, 1938. Serial No. 407,224.

SPORTAMS

For Ladies' Hats.
Claims use since Apr. 1, 1938.

368,170. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRANITE FABRICS, INC., New York, N. Y. Filed July 11, 1938. Serial No. 408,382.

DOWN-E-SUEDE

For Rayon Piece Goods.
Claims use since Apr. 11, 1938.

368,171. (CLASS 39. CLOTHING.) LEO PERRY, doing business as Whitewater Garment Company, Whitewater, Wis. Filed Aug. 13, 1938. Serial No. 409,586.



RAIN-KERCHIEF

For Bandanna Handkerchiefs.
Claims use since Mar. 1, 1938.

368,172. (CLASS 37. PAPER AND STATIONERY.) LEE PAPER COMPANY, Vicksburg, Mich. Filed Aug. 23, 1938. Serial No. 409,885.

LEE'S WINDSOR BOND

For Bond Paper.
Claims use since Oct. 21, 1918.

368,173. (CLASS 39. CLOTHING.) THE MAY DEPARTMENT STORES CO., New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Denver, Colo.; Los Angeles, Calif.; and St. Louis, Mo. Filed Sept. 9, 1938. Serial No. 410,403.

Betty Barr

For Misses' and Girls' Wearing Apparel—Namely, Dresses, Coats, Sweaters, Raincoats, and Raincapes, Outer Skirts, Jackets, Snowsuits, Blouses, and Hats.
Claims use since March, 1938.

368,174. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) REMINGTON RAND INC., Buffalo, N. Y. Filed Nov. 4, 1938. Serial No. 412,390.

NOISELESS

For Electric Dry Shavers.
Claims use since Apr. 22, 1937.

368,175. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FRED MEYER, INC., Portland, Oreg. Filed Nov. 8, 1938. Serial No. 412,518.

MY-TE-FINE

For Hair Brushes, Tooth Brushes, and Brooms.
Claims use since July 1, 1935.

368,176. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FRED MEYER, INC., Portland, Oreg. Filed Nov. 8, 1938. Serial No. 412,519.

MY-TE-FINE

For Hot Water Bottles, Fountain Syringes, and Combination Hot Water Bottle and Syringe.
Claims use since July 1, 1936.

368,177. (CLASS 39. CLOTHING.) BLEECKER SHOE CO., INC., New York, N. Y. Filed Nov. 22, 1938. Serial No. 413,037.

TOM COLLINS

For Men's, Ladies', and Children's Shoes Made of Leather, Rubber, or Fabric, or Combinations Thereof.
Claims use since October, 1937.

368,178. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ELGIN LABORATORIES, INC., Chicago, Ill. Filed Dec. 9, 1938. Serial No. 413,626.

HARVARD

For Electrically Operated Shaving Devices and Electric Hair Clippers.
Claims use since Nov. 12, 1936.

368,179. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BOWES "SEAL-FAST" CORPORATION, Indianapolis, Ind. Filed Dec. 17, 1938. Serial No. 413,927.

KŌRŌD'LESS

For Battery Cables.
Claims use since Aug. 31, 1936.

368,180. (CLASS 39. CLOTHING.) WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y. Filed Dec. 19, 1938. Serial No. 414,012.

LITTLE OLD NEW YORK

For Scarfs and Mufflers.
Claims use since 1928.

368,181. (CLASS 12. CONSTRUCTION MATERIALS.) KELLEY PLASTERBOARD COMPANY, INC., Delawanna, N. J., now by merger and consolidation Newark Plaster Company. Filed Jan. 3, 1939. Serial No. 414,451.

KELLEY PLASTERBOARD Co. Inc.

For Gypsum Wallboard, Fiber Jointing Tape for Wallboard; Special Formulated Joint Cement for Wallboard, Gypsum Lath, Gypsum Plasterboard, Gypsum Sheathing, Concrete Filled Columns, Rockwool, and Wall Tile.
Claims use since Jan. 1, 1933.

368,182. (CLASS 39. CLOTHING.) THE AMERICAN HAT CO. INC., Norwalk, Conn. Filed Jan. 17, 1939. Serial No. 414,910.

TRIMBLE

For Men's Hats.
Claims use since 1902.

368,183. (CLASS 39. CLOTHING.) JAY THORPE, INC., New York, N. Y. Filed Jan. 25, 1939. Serial No. 415,236.

Selection

For Shoes Made of Leather, Cloth, and Combinations Thereof.
Claims use since Dec. 1, 1937.

368,184. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GITS BROS. MFG. CO., Chicago, Ill. Filed Feb. 6, 1939. Serial No. 415,687.

GITS BROS. MFG. CO.

For Oil Cups, Oil Seals, and Lubricators for Machinery Bearings.
Claims use since Mar. 1, 1911.

368,185. (CLASS 39. CLOTHING.) HYMAN N[illegible], doing business as Cape Cod Hand Weavers. Lo[illegible], Mass. Filed Feb. 8, 1939. Serial No. 415,796.

Cape Cod

For Neckties, Cravats, Shawls, and Scarves.
Claims use since August, 1937.

368,186. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS., Chicopee, Mass. Filed Feb. 10, 1939. Serial No. 415,923.

PERCUSSION WEIGHTED

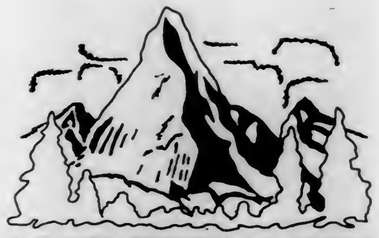
For Golf Clubs.
Claims use since Sept. 21, 1936.

368,187. (CLASS 39. CLOTHING.) H. C. COHN & Co., Rochester, N. Y. Filed Feb. 15, 1939. Serial No. 416,033.

HARDY CLOTH

For Neckties.
Claims use since May 21, 1938.

368,188. (CLASS 39. CLOTHING.) H. C. COHN & Co., Rochester, N. Y. Filed Feb. 15, 1939. Serial No. 416,034.



For Neckties.
Claims use since Aug. 10, 1937.

368,189. (CLASS 39. CLOTHING.) H. C. COHN & Co., Rochester, N. Y. Filed Feb. 15, 1939. Serial No. 416,035.



For Neckties.
Claims use since Dec. 17, 1937.

368,190. (CLASS 39. CLOTHING.) H. C. COHN & Co., Rochester, N. Y. Filed Feb. 15, 1939. Serial No. 416,044.



For Neckties.
Claims use since Mar. 26, 1936.

368,191. (CLASS 39. CLOTHING.) CHAMPION GLOVE MANUFACTURING CO., Boston, Mass. Filed Feb. 11, 1939. Serial No. 416,083.



For Hosiery.
Claims use since Dec. 15, 1937.

368,192. (CLASS 39. CLOTHING.) THE SUPERB GLOVE COMPANY, Johnstown, N. Y. Filed Feb. 16, 1939. Serial No. 416,123.



For Gloves Made of Leather, Fabric, and Combinations Thereof.
Claims use since 1919.

368,193. (CLASS 39. CLOTHING.) CLERMONT CRAVAT COMPANY, INC., New York, N. Y. Filed Mar. 13, 1939. Serial No. 416,997.



For Neckties, Cravats, and Scarfs.
Claims use since January, 1938.

368,194. (CLASS 39. CLOTHING.) SAMUEL H. KAPLAN, New York, N. Y. Filed Mar. 15, 1939. Serial No. 417,091.



For Shoes Made of Leather, Rubber, Fabric, or of Combinations of Said Materials.
Claims use since Mar. 15, 1930.

368,195. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Apr. 6, 1939. Serial No. 417,946.

Safety Grip

For Automobile and Bicycle Tires.
Claims use since June 1, 1937.

TRADE-MARK REGISTRATIONS RENEWED

125,228. **ANIL MAGICO.** LAUNDRY BLUING. Registered April 22, 1919. JAMES C. KELLOGG, New York, N. Y. Renewed April 22, 1939, to The R. T. French Company, Rochester, N. Y., a corporation of Delaware, assignee by mesne assignments.

125,336. **TONKA.** CREAMERY-BUTTER. Registered May 13, 1919. HARRY A. GORDHAMER, Minneapolis, Minn. Renewed May 13, 1939.

125,377. **SUN SHINE.** A DRESSING FOR LEATHER AND FOR SHOES AND OTHER ARTICLES MADE FROM LEATHER. Registered May 13, 1919. CHRIST A. ZOES. Renewed May 13, 1939, to C. A. Zoes Manufacturing Co., Chicago, Ill., a corporation of Illinois, assignee.

125,451. **BUTYBRING.** TOILET CREAM. Registered May 20, 1919. HOWARD BROS. CHEMICAL CO., Buffalo, N. Y., a corporation of New York. Renewed May 20, 1939.

125,625. **A FISH IN HAND.** CERTAIN NAMED FOODS. Registered June 3, 1919. FRANK E. DAVIS COMPANY. Renewed June 3, 1939, to Frank E. Davis Fish Company, Gloucester, Mass., a corporation of Massachusetts, by change of name.

125,702. **FORD.** RUBBER TIRES. Registered June 3, 1919. FORD MOTOR COMPANY, Highland Park, Mich. Renewed June 3, 1939, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware, assignee.

125,703. **IRIS.** CERTAIN NAMED FOODS. Registered June 3, 1919. HAAS, BARUCH & Co., Los Angeles, Calif., a corporation of California. Renewed June 3, 1939.

125,774. **OLD RELIABLE.** COTTON-PLANT FERTILIZER. Registered June 17, 1919. A. D. ADAIR & MCCARTY BROS., INC., Atlanta, Ga., a corporation of Georgia. Renewed June 17, 1939.

125,786. **LAMBENT.** FABRICS OF SILK AND SILK MIXTURES. Registered June 17, 1919. CHENEY BROTHERS, South Manchester, Conn. Renewed June 17, 1939, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut.

125,835. **PRATT & WHITNEY.** CERTAIN NAMED METAL AND WOOD WORKING MACHINES, PARTS THEREOF, AND ACCESSORIES THEREFOR. Registered June 17, 1919. PRATT & WHITNEY COMPANY, New York, N. Y. Renewed June 17, 1939, to Niles-Bement-Pond Company, Hartford, Conn., a corporation of New Jersey, assignee.

125,940. **CAMELLIA.** FRESH ORANGES. Registered July 15, 1919. REDLANDS MUTUAL ORANGE COMPANY. Renewed July 15, 1939, to Redlands Mutual Orange Association, Redlands, Calif., a corporation of California, successor.

126,239. **OMAR.** CIGARETTES. Registered August 19, 1919. THE AMERICAN TOBACCO COMPANY, New York, N. Y., a corporation of New Jersey. Renewed August 19, 1939.

126,348. **SINCO.** CERTAIN NAMED OILS AND GREASES. Registered August 19, 1919. SINCLAIR REFINING COMPANY, Chicago, Ill. Renewed August 19, 1939, to Sinclair Refining Company, New York, N. Y., a corporation of Maine.

126,444. **DR. L. D. LEGEAR.** PREPARATIONS FOR CERTAIN NAMED AILMENTS OF HORSES, CATTLE, SHEEP, HOGS, AND POULTRY. Registered August 26, 1919. DR. L. D. LEGEAR MEDICINE CO., St. Louis, Mo., a corporation of Missouri. Renewed August 26, 1939.

126,632. **AM.** WRITING-PAPER, NEWS-PRINT PAPER, AND WRAPPING-PAPER. Registered September 30, 1919. ARROWHEAD MILLS, INC., Fulton, N. Y., a corporation of New York. Renewed September 30, 1939.

126,782. **GARNET.** CERTAIN NAMED OILS AND GREASES FOR ILLUMINATING, BURNING, POWER, FUEL, AND LUBRICATING PURPOSES. Registered September 30, 1919. SINCLAIR REFINING COMPANY, Chicago, Ill. Renewed September 30, 1939, to Sinclair Refining Company, New York, N. Y., a corporation of Maine.

126,893. **PEDESTRIAN.** LEATHER SHOES FOR MEN. Registered October 7, 1919. ROGERS PEET COMPANY, New York, N. Y., a corporation of New York. Renewed October 7, 1939.

126,962. **ZORBIK.** GAUZE AND ABSORBENT PAPER CONSTITUTING A SURGICAL DRESSING. Registered October 14, 1919. SCOTT PAPER COMPANY. Renewed October 14, 1939, to Scott Paper Company, Chester, Pa., a corporation of Pennsylvania, assignee.

127,040. **FELCO.** PRECIOUS AND IMITATION PRECIOUS STONES, BOTH SET AND UNSET. Registered October 21, 1919. JACK J. FELSENFELD, Brooklyn, N. Y. Renewed October 21, 1939, to Jack J. Felsenfeld, New York, N. Y.

127,075. **BLACKSTONE.** CANNED FRUITS, CANNED VEGETABLES, AND CANNED SALMON. Registered October 21, 1919. JOHN F. LALLA COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 21, 1939.

127,103. **OAKITE.** GRANULATED CHEMICAL CLEANSING COMPOUND. Registered October 21, 1919. OAKLEY CHEMICAL COMPANY. Renewed October 21, 1939, to Oakite Products, Inc., New York, N. Y., a corporation of New York, assignee.

127,127. **FIDELITY.** LINIMENTS, CORDIAL FOR USE IN TREATMENT OF IRREGULARITIES OF THE BOWELS, ETC. Registered October 21, 1919. SAN ANTONIO DRUG CO., San Antonio, Tex., and New York, N. Y. Renewed October 21, 1939, to San Antonio Drug Company, San Antonio, Tex., a corporation of Texas.

127,132. **DE.** CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. Registered October 21, 1919. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 21, 1939.

127,133. **SHEFFIELD.** MILK, CREAM, EVAPORATED MILK, AND CONDENSED MILK. Registered October 21, 1919. SHEFFIELD FARMS COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 21, 1939.

127,173. **AMCO.** CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. Registered October 21, 1919. ALVEY MANUFACTURING COMPANY. Renewed October 21, 1939, to Alvey Conveyor Manufacturing Company, St. Louis, Mo., a corporation of Missouri, by change of name.

127,229. **DETHOL.** INSECTICIDES, DISINFECTANTS, AND GERMICIDES. Registered October 28, 1919. FAWLAND COMPANY, INC., Richmond, Va. Renewed October 28, 1939, to Dethol Manufacturing Company, Inc., Washington, D. C., a corporation of Virginia, assignee by mesne assignments.

127,278. **THE SMART SET.** COATS, VESTS, TROUSERS. Registered November 4, 1919. GOLDENBERG'S. Renewed November 4, 1939, to The Goldenberg Co., Washington, D. C., a corporation of Maryland, successor.

127,286. **HI-TEST.** STOCK FOOD. Registered November 4, 1919. MARITIME TRADING CORPORATION, New York, N. Y. Renewed November 4, 1939, to Maritime Milling Company, Inc., Buffalo, N. Y., a corporation of New York, by change of name.

LABELS

REGISTERED JUNE 6, 1939

53,089.—*Title:* HEAVY WAXED PAPER. For Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

53,090.—*Title:* WAXED LUNCH WRAPS. For Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

53,091.—*Title:* FINE FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published May 8, 1939.

53,092.—*Title:* COLONIAL A NO. 1 FLOOR VARNISH. For Floor Varnish. COLONIAL WORKS, Brooklyn, N. Y. Published May 8, 1939.

53,093.—*Title:* COLONIAL LUSTROLAC 4 HOUR DRYING CLEAR VARNISH. For Clear Varnish. COLONIAL WORKS, Brooklyn, N. Y. Published May 8, 1939.

53,094.—*Title:* UPHOLSTERY KING. For a Liquid for Cleaning Fast Color Fabrics, Such as Upholstery, Rugs, Drapes, Auto Upholstery, etc. CUMANS W. COOPER, doing business as Polish King Company, Los Angeles, Calif. Published April 1, 1938.

53,095.—*Title:* PROCAINE SOLUTION WITH EPINEPHRINE (ANESTEX INJECTUBES BRAND). For Containers Holding Tubes Filled with a Solution of Procaine with Epinephrine a Local Anesthetic. DAVID CURTIS, doing business as The De-Ce Products Co. of N. Y. (Anestex Laboratories), New York, N. Y. Published April 10, 1939.

53,096.—*Title:* CRESTWOOD MINIATURE. For Chocolates. DAGGETT CHOCOLATE COMPANY, doing business as Crestwood Chocolate Company, Cambridge, Mass. Published March 6, 1939.

53,097.—*Title:* BERKSHIRE CHOCOLATES IN MINIATURE. For Chocolates. DAGGETT CHOCOLATE COMPANY, doing business as Berkshire Chocolate Company, Cambridge, Mass. Published January 27, 1939.

53,098.—*Title:* BUBLY. For Chewing Gum. GUMAKERS OF AMERICA, INC., Clifton Heights, Pa. Published January 11, 1938.

53,099.—*Title:* FOTO. For Chewing Gum. GUMAKERS OF AMERICA, INC., Clifton Heights, Pa. Published April 14, 1939.

53,100.—*Title:* STAY-BIB BONNET APRONS. For Ladies' and Children's Aprons. HETTIE MAE HALL, Ocean Beach, Calif. Published April 1, 1939.

53,101.—*Title:* SKY-LINE SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 21, 1939.

53,102.—*Title:* MONUMENTAL. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 7, 1939.

53,103.—*Title:* PER-FECT-O-PEDIC LA SALLE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 14, 1939.

53,104.—*Title:* ROYAL SCOUT SIX. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 9, 1936.

53,105.—*Title:* THEY SEE THE BOX FIRST. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 17, 1939.

53,106.—*Title:* STONER'S SMART SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 22, 1939.

53,107.—*Title:* J. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 22, 1939.

53,108.—*Title:* BARBARA. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 2, 1939.

53,109.—*Title:* WILSON SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 3, 1939.

53,110.—*Title:* THEY SEE THE BOX FIRST. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 22, 1939.

53,111.—*Title:* THEY SEE THE BOX FIRST. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 13, 1939.

53,112.—*Title:* STRAND'S BUNS. For Buns. GEORGE L. HUDSON, Chicago, Ill. Published December 22, 1938.

53,113.—*Title:* SILVER CREST BREAD. For Bread. GEORGE L. HUDSON, Chicago, Ill. Published December 21, 1938.

53,114.—*Title:* MINIAFORM DOLL HOUSE FURNITURE. For Toys, to wit, Doll House Furniture. HUGH SPECIALTY CO., Chicago, Ill. Published May 6, 1939.

53,115.—*Title:* KROGER'S COUNTRY CLUB QUALITY BRAND CORN FLAKES. For Corn Flakes. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio. Published March 25, 1939.

53,116.—*Title:* VALLEY MAID ICE CREAM. For Ice Cream. MENASHA PRODUCTS COMPANY, Menasha, Wis. Published April 8, 1939.

53,117.—*Title:* MAYFAIR. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published June 8, 1937.

53,118.—*Title:* PAGE. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published January 17, 1939.

53,119.—*Title:* SIEGEL'S. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published July 21, 1938.

53,120.—*Title:* SMART BEK SHOES. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published February 16, 1939.

53,121.—*Title:* SMART SHOES. For Shoes. FRANK C. MEYER CO. INC., New York, N. Y. Published November 17, 1937.

53,122.—*Title:* TOBY TODD. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published June 16, 1938.

53,123.—*Title:* PENICK. For Imitation Maple Waffle Syrup. PENICK & FORD, LTD. INCORPORATED, New York, N. Y. Published May 2, 1939.

53,124.—*Title:* SERVICE. For Hand Sewn Camp Moccasins. SERVICE BOOT & LEGGING CO., INC., New York, N. Y. Published March 10, 1939.

PRINTS

REGISTERED JUNE 6, 1939

17,414.—*Title:* SCOTLAND YARD—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,415.—*Title:* ST. PAUL'S CATHEDRAL—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY. New York, N. Y. Published April 4, 1939.

17,416.—*Title:* NO. 10 DOWNING STREET—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,417.—*Title:* WESTMINSTER ABBEY—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,418.—*Title:* HORSE GUARDS—WHITEHALL, LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,419.—*Title:* ST. JAMES'S PALACE—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,420.—*Title:* THE GUILDHALL—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,421.—*Title:* TOWER OF LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,422.—*Title:* LINCOLN CATHEDRAL—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,423.—*Title:* WARWICK CASTLE—ENGLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,424.—*Title:* EXETER CATHEDRAL — ENGLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,425.—*Title:* CANTERBURY CATHEDRAL — ENGLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,426.—*Title:* KENILWORTH CASTLE—ENGLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,427.—*Title:* SALISBURY CATHEDRAL—ENGLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,428.—*Title:* CHRIST CHURCH COLLEGE—OXFORD. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,429.—*Title:* KING'S COLLEGE—CAMBRIDGE. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,430.—*Title:* YORK MINSTER—ENGLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,431.—*Title:* THE HOUSES OF PARLIAMENT. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,432.—*Title:* EDINBURGH CASTLE—SCOTLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,433.—*Title:* COVENT GARDEN THEATRE—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,434.—*Title:* WINDSOR CASTLE. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,435.—*Title:* BALMORAL CASTLE — SCOTLAND. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,436.—*Title:* BUCKINGHAM PALACE—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

17,437.—*Title:* THE MANSION HOUSE—LONDON. For Cigarettes. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Published April 4, 1939.

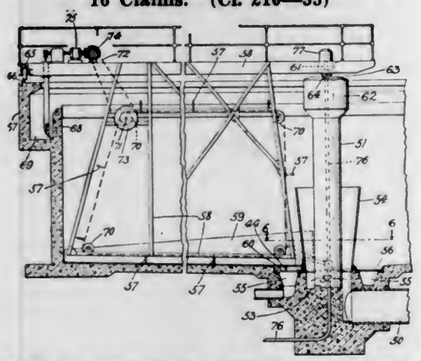
17,438.—*Title:* IT'S THE NEW WAY TO MAKE A MAN'S TYPE SHORTCAKE! For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published May 10, 1939.

17,439.—*Title:* NOW FOR A— CHOCSICLE OUR FAVORITE ICE CREAM ON-A-STICK 5¢. For Ice Cream Confections on a Stick Coated with Chocolate. JOE LOWE CORPORATION, New York, N. Y. Published March 10, 1939.

21,109
SETTLING TANK

William W. Sayers, Chicago, Ill., and Richard F. Bergmann, Cleveland, Ohio, and Harold F. Watson, Philadelphia, Pa., assignors to Link-Belt Company, Chicago, Ill., a corporation of Illinois

Original No. 2,073,810, dated March 16, 1937, Serial No. 26,780, June 15, 1935. Application for reissue July 23, 1938, Serial No. 221,028
16 Claims. (Cl. 210—55)

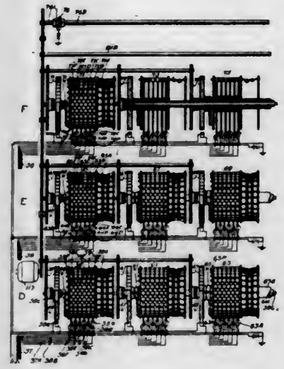


8. In a sedimentation tank, a column extending upwardly through the floor thereof, a chamber beneath the floor of the tank surrounding the column having a discharge opening about the column through the floor of the tank and an influent conduit beneath the floor of the tank communicating with the chamber, a sludge hopper in the floor of the tank adjacent the discharge opening, means for withdrawing sludge from the hopper and means for conveying sludge from the tank floor and depositing it in the hopper.

21,110
ADDRESSING AND PRINTING MACHINE

Clyde Smith, Hopkinsville, Ky., assignor, by mesne assignments, to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware

Original No. 2,077,963, dated April 20, 1937, Serial No. 664,951, April 7, 1933. Application for reissue April 17, 1939, Serial No. 268,406
42 Claims. (Cl. 101—58)

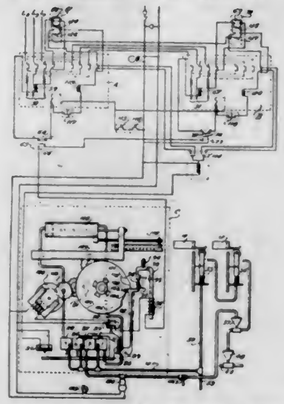


1. In an automatic addressing machine, a plurality of rows of start stop printing wheels, each row sufficient to serve one entire line of an address at one time, a code disc stop-arm selector for each said printing wheel, transfer means for transferring to said selectors at one time all of the codes representing the intelligence of all lines to be printed at one time, and means to operate all of said rows of wheels to print at one time.

PATENTS

GRANTED JUNE 6, 1939

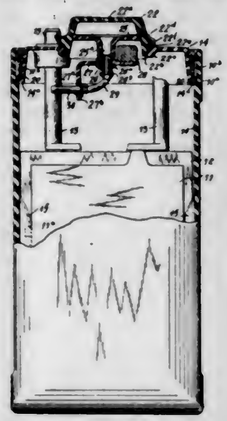
2,160,805
PRESS
Edmund M. Winegar, Willoughby, Ohio, assignor to The Ohio Rubber Company, Willoughby, Ohio, a corporation of Ohio
Application August 8, 1936, Serial No. 94,992
9 Claims. (Cl. 18—17)



9. In a press the combination of opposed press heads, a pressure fluid actuated motor for moving one of said press heads toward the other to close the press, a member movable into and out of a position intermediate said press heads, means for moving said member, a source of pressure fluid, a normally closed pressure fluid actuated valve for controlling the flow of pressure fluid to said pressure fluid actuated motor, a second normally closed pressure fluid actuated valve between the source of pressure fluid and the first mentioned valve for controlling the flow of pressure fluid for operating the first mentioned valve, means for connecting said second normally closed pressure fluid actuated valve with a source of pressure fluid, and means for automatically disconnecting said second mentioned normally closed valve with its source of pressure fluid after a predetermined time interval, a normally closed valve between the source of pressure fluid for operating the first mentioned normally closed pressure fluid actuated valve and said valve, and means for maintaining said third mentioned valve open while said movable member is positioned intermediate said press heads.

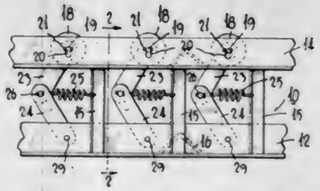
2,160,806
STORAGE BATTERY VENTING MEANS
Stewart C. Aikenhead, Euclid, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application June 8, 1937, Serial No. 147,076
4 Claims. (Cl. 136—177)

2. A storage battery comprising a case containing positive and negative plates and electrolyte and provided with a cover, a venting member carried by the cover and provided on its lower side with a flexible tube having a laterally projecting end and gravity actuated counterweighted means for causing the tube to swing automatically into an upwardly extending position when the battery is turned on its side, the free end of the tube being above the normal electro-



lyte level when the battery is in upright position and being above the electrolyte level when the battery is on its side.

2,160,807
ROLLER CONVEYER
Merel S. Bowen, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application June 6, 1938, Serial No. 212,170
14 Claims. (Cl. 193—35)

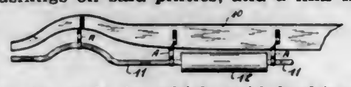


1. A resiliently mounted roller conveyer comprising a conveyer frame, a plurality of rollers mounted in said frame for vertical movement with respect to said frame, toggle levers connected at one end portion to said rollers and at the opposite end portion to the conveyer frame, and resilient means normally urging said toggles in a direction tending to straighten the same.

2,160,808
EXHAUST PIPE AND MUFFLER SUPPORT
Dan T. Bradley, Detroit, Mich., assignor to Harris Products Company, Akron, Ohio, a corporation of Ohio
Application February 15, 1938, Serial No. 190,609
5 Claims. (Cl. 280—106)

1. In a motor vehicle the combination of a frame, a motor exhaust pipe including a muffler, and means for supporting said pipe comprising an arm on said pipe having a pintle secured

thereto, a pintle on said frame, torsionally flexible bushings on said pintles, and a link having



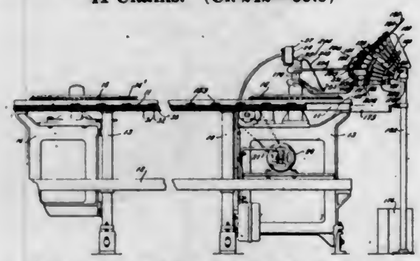
eyes at its ends in which said bushings are mounted.

2,160,809
ANIMAL TRAP
Robert C. Burnley, Louisville, Ky.
Application June 22, 1936, Serial No. 86,659
Renewed November 4, 1938
10 Claims. (Cl. 43—67)



1. A trap of the class described comprising a body having an entrance opening, a door slidably mounted within the body, means for supporting the door in an open position, said last mentioned means comprising a sliding member movable to and away from the door, means for automatically pulling the sliding member away from the door, tripping means engaging the sliding member for holding the sliding member in engagement with the door, and an animal actuated treadle for actuating the tripping means for releasing the sliding member, whereby the sliding member will be automatically pulled away from the door to cause the door to move from an open to a closed position.

2,160,810
WINDING MACHINE
Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire
Application November 24, 1931, Serial No. 576,978
41 Claims. (Cl. 242—35.5)



1. A textile machine having therein a carrier adapted to carry a winding strand package core and an unwinding supply strand mass, means for moving the carrier in a predetermined path in relation to the machine, means for winding a strand from the supply strand mass onto the winding strand package core during such motion, means for distributing the strand on the core in progressively axially advancing conical layers of less length than the finished package, in combination with means operative after winding of a package on the core for automatically associating the strand of a supply mass remaining on the carrier with a fresh core for initiating the winding of a new strand package on the carrier, means for supplying a fresh core to the carrier, means for doffing a wound core from the carrier, and means for positioning the strand-distributing means for the beginning of a new winding on a fresh core.

3. In a winding machine, a rotatable center recessed to receive an end of a winding package core, the part of said center surrounding the recess having serrations to receive a strand laid across said recess.

39. A textile machine having therein a plurality of flexibly connected winding units each adapted to carry a winding package core, means for moving the units in a path of elongated shape including a straight portion of substantial length, means for rotating the several packages during their travel in said straight portion of path, and means operative during the winding to distribute the strand in conical layers of less length than the finished package length, and means for shifting the ranges of strand traverse axially of the packages.

2,160,811
WELL PUMP
Edward T. Adams, Long Beach, Calif., assignor to Edward E. Adams, Los Angeles, Calif.
Application October 11, 1937, Serial No. 168,428
8 Claims. (Cl. 103—179)

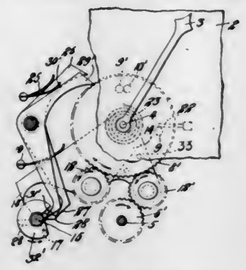


1. A well pump comprising, a barrel having its upper portion of greater diameter than its lower portion, a standing valve at the lower end of the barrel, a tubular plunger reciprocable in the barrel and having its upper portion of greater diameter than its lower portion, the respective upper and lower portions of the barrel and plunger having sealing cooperation whereby the barrel and plunger enclose an annular chamber between the zones of said sealing cooperation, the plunger having a port connecting said chamber with the interior of the plunger, and traveling valves carried by the plunger above and below said port.

2,160,812
MAKING CASTINGS OF ALUMINUM AND ALUMINUM-BASE ALLOY
John Herbert Alden and Philip Trimble Stroup, New Kensington, Pa., and Pasqual Michael Budge, Fairfield, Conn., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 9, 1938, Serial No. 194,766
13 Claims. (Cl. 75—68)

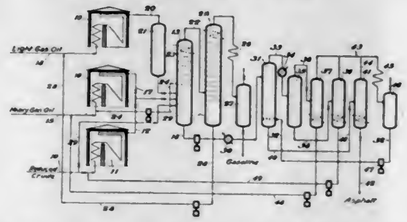
1. In a method of making castings of aluminum and aluminum-base alloys free from pinhole porosity, the step comprising de-gassing the molten metal by bubbling a non-oxidizing hydrogen-free gas through the metal while in an atmosphere of air in which any content of moisture present has been reduced to not more than 1 grain per cubic foot.

2,160,813
CHRONOMETRIC TACHOMETER
George S. Andrews, Rye, N. Y.
Application August 10, 1935, Serial No. 35,566
9 Claims. (Cl. 235—104)



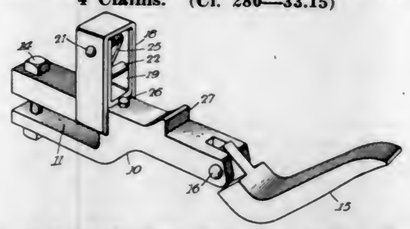
1. In a chronometric tachometer, the combination, with a drive shaft, of an indicator shaft, a pair of driving gears fixed to said drive shaft, a pair of counting gears journaled on said indicator shaft on common planes with the respective driving gears, an indicator gear fixed to the indicator shaft between said counting gears, means for operatively connecting the respective driving gears with the corresponding counting gears alternately throughout successive intervals of equal duration, and means for connecting said indicator gear with the counting gear which is in operative connection with its driving gear.

2,160,814
PROCESSING HYDROCARBON OILS
Maurice H. Arveson, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 25, 1937, Serial No. 150,303
7 Claims. (Cl. 196—50)



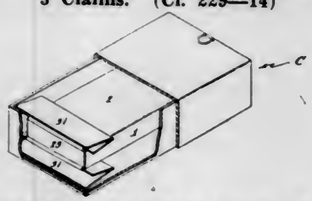
1. The process of converting heavy hydrocarbon oils into motor fuel which comprises viscosity breaking a residual oil in a viscosity breaking zone, cracking a gas oil in a gas oil cracking zone, evaporating the hot products of said viscosity breaking and gas oil cracking operations, separating gasoline from the vaporized fraction of said products, combining and cooling the unevaporated portions of said products, extracting said cooled unevaporated products with a liquefied normally gaseous hydrocarbon solvent at a temperature substantially below the critical temperature of said solvent, separating the undissolved fraction of said products from the extract, heating said extract to a temperature in the vicinity of the critical temperature of the said solvent whereby it is separated into a light recycle oil fraction and a heavy recycle oil fraction, recycling said light recycle oil fraction to the said gas oil cracking zone and recycling the said heavy recycle oil fraction to the viscosity breaking zone.

2,160,815
TRAILER COUPLING
Hiram L. Baker, Leland, Ill.
Application November 26, 1937, Serial No. 176,574
4 Claims. (Cl. 280—33.15)



1. In a trailer hitch, in combination, a drawbar for attachment to a draft vehicle, a hasp pivotally attached to the rear end of the draw-bar and foldable thereover, and having a receding cam face at its outer end, a fixed frame carried by and arching over the draw bar, a swinging frame mounted within the fixed frame and carrying a cross-bar engageable by the cam face of the hasp, and spring means for advancing the cross-bar over the end of the hasp after such engagement.

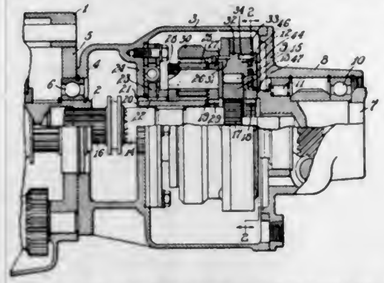
2,160,816
CONTAINER
Aldrich B. Barnes, North Attleboro, Mass., assignor to The Mason Box Company, Attleboro Falls, Mass., a corporation of Massachusetts
Application October 14, 1936, Serial No. 105,544
3 Claims. (Cl. 229—14)



1. A container for a fragile article, adapted to be inserted within the carton, said container comprising an enclosed tubular member for holding said fragile article, and a pair of oppositely disposed flaps integral with each end of said tubular member, each of said flaps being folded upon itself so as to define a spring-like element having free end portions extending transversely beyond and projecting outwardly of the longitudinal edges of said tubular member, said flaps being engageable with the adjacent walls of said carton so as yieldingly to support said tubular member in spaced relation to said walls.

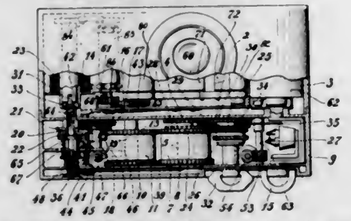
2,160,817
OVERSPEED AND FREEWHEELING DRIVE WITH AUTOMATIC LOCKOUT
William B. Barnes, Indianapolis, Ind., assignor to Barnes Motor Developments Company, Muncie, Ind., a partnership composed of said William B. Barnes and Freda Arthur Barnes
Application January 25, 1934, Serial No. 708,176
34 Claims. (Cl. 74—260)

1. The combination with a driving shaft and a driven shaft, of a planetary gearing for driving said driven shaft at a different speed than that of the driving shaft, a clutch for establishing driving relation between said shafts through said gearing, means for preventing the engagement of the members of said clutch until the speed of one of the clutch members has reached a predetermined point, said clutch being so constructed that engagement will not be effected until the



two members thereof approach substantially synchronism, and means within the control of the operator for initially connecting one of the members of the clutch with the driving shaft.

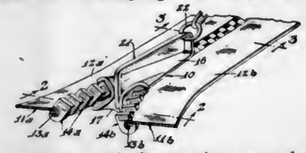
2,160,818
TRANSMISSION MECHANISM FOR PHOTOGRAPHIC CAMERAS
Helmut Becker, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany
Application March 25, 1937, Serial No. 132,897
In Germany April 3, 1936
5 Claims. (Cl. 95—31)



1. In a motor driven roll film camera including a roll of film, mechanism for unwinding the film therefrom to expose the same, a shutter and mechanisms for opening the shutter to make an exposure and for rewinding the shutter to close the same, a motor attached to said camera for actuating all of said mechanisms, a power transmission device interposed between the motor and the said mechanisms for interruptedly transmitting power from the motor to the said mechanisms during a complete exposure operation and means in said transmission device for automatically interrupting the power transmitting operations thereof for a period of time which is shorter than the period of time during which power is transmitted by said device from the motor to the said camera mechanisms.

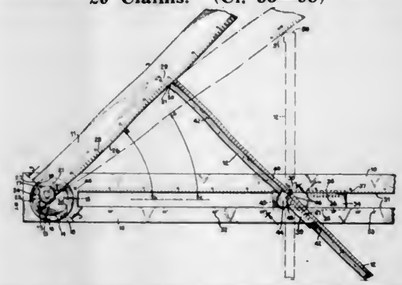
2,160,819
SLIDER
Walter A. Behrens, New York, N. Y., assignor to Ideal Fastener Corporation, Brooklyn, N. Y., a corporation of New York
Application December 16, 1937, Serial No. 180,220
3 Claims. (Cl. 24—205)

1. In combination with flexible interlocking stringers, incorporating scoops normally mounted in a central transverse plane angular to that of the tapes carrying the same, a slider comprising a body portion having diverging channeled arms merging into a channeled stem through which the scoops of the stringer series pass for interlocking and separation upon reciprocation of said slider, the diverging arms and stem having different transverse central planes, the stem having a central transverse plane parallel to that of the tapes and the diverging arms having a central



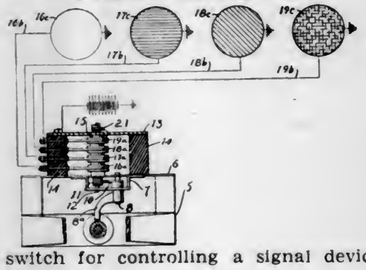
transverse plane of decreasing angularity with respect to that of the stem as the diverging arms lead to the stem, the leading end of the diverging arms having the same central transverse plane as that of the opposing scoops on the stringer series in their normal mounting.

2,160,820
TRIANGLE SOLVING INSTRUMENT
Bernt M. Bensen, Brooklyn, N. Y.
Application July 18, 1935, Serial No. 32,032
20 Claims. (Cl. 33—98)



17. In a device of the class described, the combination of three bars coacting to define the three lines forming the sides of a triangle, the two bars forming each apex of the triangle provided with coacting means defining an axis of relative rotation and adapted to swing about said axes as centers thereby to vary any angle of the triangle at will, each bar provided with a linear scale and all of the scales having the same linear units and each scale indicating distances along its associated line, two of the bars provided with means for automatically locating them at right angles to each other and the scale on one of said two bars having its zero point at said means.

2,160,821
SPEED INDICATING MEANS
Robert F. Benson, Anthony E. Bauer, and Albert C. Jayet, San Jose, Calif.
Application May 26, 1937, Serial No. 144,886
1 Claim. (Cl. 200—80)



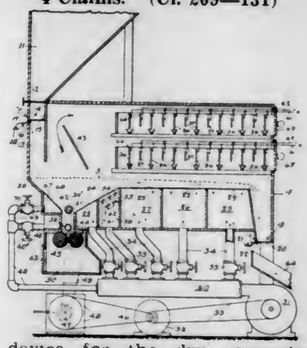
A switch for controlling a signal device for

vehicles comprising, supporting means, a centrifugal governor mounted thereon, a rotatable shaft mounted thereon, governor actuated means connected to the shaft to rotate the same, laterally spaced, circumferentially offset, and radially directed bosses associated with the shaft to move therewith, terminals mounted on the supporting means and insulated therefrom, said terminals being disposed to successively contact and then leave said bosses to alternately close and open a circuit when the shaft is rotated, and a single boss associated with the shaft disposed to contact all of said terminals when the shaft is rotated to the limit of its movement in one direction.

2,160,822
DEVICE FOR DRY SEPARATION OF PRECIOUS METALS FROM FINELY DIVIDED MATERIAL

Leroy E. Bigelow, Glendale, Calif.

Application September 7, 1935, Serial No. 39,595
4 Claims. (Cl. 209—131)



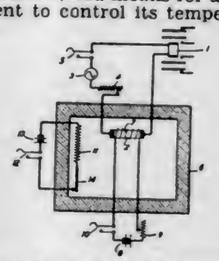
1. A device for the dry concentration of precious metals from finely divided material, comprising a receptacle; material inlet means at one end portion of the receptacle and material outlet means at the other end portion of the receptacle; a screen like bottom of fine mesh in said receptacle supporting finely divided material and allowing the passage of air therethrough, said screen like bottom having a section upwardly inclining from the inlet end portion toward the outlet end portion, and a substantially horizontal section extending from the inclined section toward the outlet end portion; air pressure supply means operatively positioned below said screen and directing a blast of air upwardly through said screen and said material; metal plates positioned below and adjacent to said inclined screen section; and means impressing a relatively high voltage on said plates.

2,160,823
CONTROL OF ELECTROMAGNETS

Harold S. Black, Elmhurst, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 17, 1936, Serial No. 59,523
13 Claims. (Cl. 175—320)

1. The combination with a relay of a circuit including the winding of said relay, a source of potential for application to said circuit, a resistance element having a negative temperature coefficient of resistance included in said circuit to effect a delay in the rise of current in the circuit to a value sufficient to operate said relay, a heat insulated chamber for housing said element, means for maintaining said chamber at a particular temperature, and means for applying heat to said element to control its temperature to in

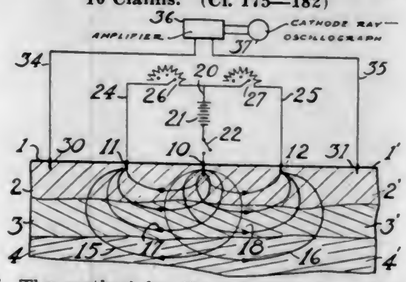


turn determine accurately the amount of said delay.

2,160,824
ELECTRIC EARTH TRANSIENT IN GEOPHYSICAL PROSPECTING

Ludwig W. Blau and Louis Statham, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 13, 1936, Serial No. 110,566
10 Claims. (Cl. 175—182)

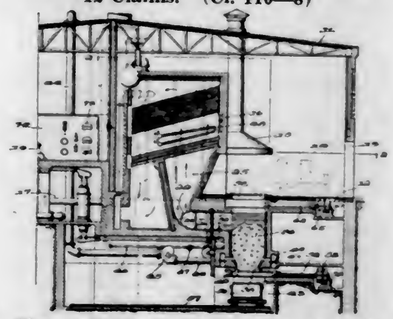


1. The method for the determination of electrical properties of matter, which comprises passing an electric current between spaced electrodes in the matter whereby a plurality of transients are obtained, thereby producing transient potentials outside of the electrodes, the time constants of which are functions of the distances of the transient potentials from the electrodes and the electrical properties of the matter, separately receiving some of the transient potentials, combining the transient potentials, and exhibiting the effects of the combination of the transient potentials.

2,160,825
GARBAGE INCINERATOR SYSTEM

Maurice Blumenthal, Brooklyn, and Louis Casper, Richmond Hill, N. Y.

Application February 9, 1935, Serial No. 5,830
12 Claims. (Cl. 110—8)

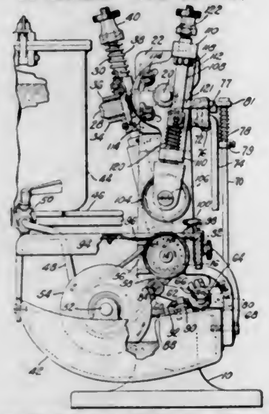


1. The method of incinerating garbage and refuse material, which consists in placing the material in a chamber, producing therein an incinerating temperature, and agitating the material by injecting thereinto under pressure a non-inflammable fluid capable of disintegrating at high temperatures into gaseous fuel elements that promote combustion.

2,160,826
COATING APPARATUS

George Boulton, deceased, late of Rochester, N. Y., by Jeannette B. Boulton, executrix, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application October 23, 1936, Serial No. 107,253
18 Claims. (Cl. 91—50)



1. In a coating apparatus, coacting work-gripping rolls of similar width, one of said rolls having a coating-applying periphery, a rotatable roll narrower than the applying roll and delivering a coating substance to the periphery of the applying roll, and means arranged to vary the position of the delivery-roll transversely of the periphery of the applying roll without varying the relation of the latter to the coacting work-gripping roll.

2,160,827
DECORATION OF TEXTILE MATERIALS

Frank D. Cheney, New York, N. Y., and John Learned, Manchester, Conn., assignors to Cheney Brothers, Manchester, Conn., a corporation of Connecticut

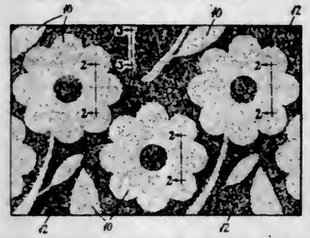
No Drawing. Application April 22, 1936, Serial No. 75,764
11 Claims. (Cl. 26—69)

1. A process of decorating a pile fabric which comprises weaving the grey goods, boiling off the grey goods, treating the pile to give it a set by one of a group of setting treatments consisting of crushing, brushing to cause the pile to be erect, brushing to cause the pile to be swirled, flattening and embossing, treating the fabric in certain predetermined areas with a fixative in soluble condition, but which may be rendered insoluble after application to the pile, and which when rendered insoluble will cause the pile to retain its set in the treated areas, even though the pile be subsequently subjected to another one of said setting treatments, insolubilizing the fixative in the treated areas, and then subjecting the fabric to another of said setting treatments whereby a contrasting set will be given to the fabric in the treated areas than has been given to it in the untreated areas.

2,160,828
DECORATED TEXTILE FABRIC

Frank D. Cheney and John Learned, Manchester, Conn., assignors to Cheney Brothers, Manchester, Conn., a corporation of Connecticut

Original application April 22, 1936, Serial No. 75,764. Divided and this application June 3, 1938, Serial No. 211,565
5 Claims. (Cl. 26—69)

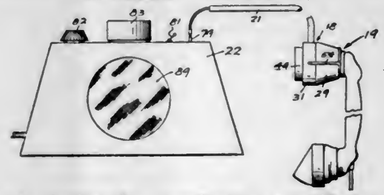


1. A decorated regenerated cellulose rayon pile fabric having substantially its normal pliability and hand carrying a design in the pile formed by different contrasting sets of the pile in different areas, at least one of said sets being permanent and the pile ends in said area being combined with a permanentized chemical fixative agent.

2,160,829
METHOD AND DEVICE FOR AUXILIARY TRANSMISSION FOR TELEPHONE RECEIVERS

Carl W. Cherry, Carmel, Calif.

Application August 19, 1935, Serial No. 36,809
24 Claims. (Cl. 179—1)



1. A device for producing amplified sound from a usual telephone receiver, comprising electro responsive means positioned in place of the usual diaphragm of said receiver so as to be actuated by the usual diaphragm-actuating current impulses of said receiver, sound producing means to be operated by said electroresponsive means, means to transmit to said sound producing means the action of said electro-responsive means, and an element to hold said electro-responsive means in the place of said diaphragm within the usual telephone receiver.

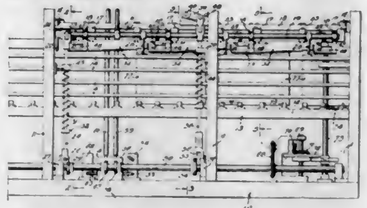
2,160,830
METHOD OF AND MECHANISM FOR OPENING BOOK SIGNATURES AND THE LIKE

Martin Christensen, Wauwatosa, Wis.

Application September 11, 1936, Serial No. 100,244
28 Claims. (Cl. 270—53)

1. Means for opening a closed signature or the like, comprising a plurality of movable sheet-engaging suction members arranged in sequence to one side of the signature to be opened, means for applying suction to said sheet-engaging members, means for progressing said signature past said sequence of sheet-engaging members so that the leaves of the signature commencing with the corresponding outer leaves are successively engaged and open outwards, and fluid pressure

means disposed adjacent said suction members adapted to project a jet of air onto the leading edge of the signature.



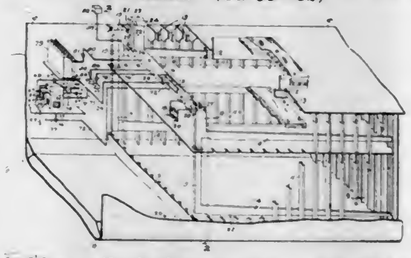
7. A method of automatically opening a closed signature or the like which comprises signature impelling means and a series of movable signature-engaging means adapted to selectively engage and deflect individual sheets of the signature outwardly to form an opening in the signature.

2,160,831

METHOD OF AND APPARATUS FOR PREVENTING DAMAGE TO CARGO IN CARGO COMPARTMENTS

Mark R. Colby, Seattle, Wash., Oliver D. Colvin, Oconomowoc, Wis., and Werner H. Hahne, New York, N. Y.; said Colvin and said Hahne assignors to said Colby as trustee

Application March 29, 1939, Serial No. 264,820
8 Claims. (Cl. 98—52)



1. The method of preventing condensation or sweating in a general cargo compartment and the cargo therein, wherein the bounding surfaces of the cargo compartment provide heat transfer according to external temperature conditions, comprising substantially closing the interior of the compartment from communication with the outside atmosphere; drawing air out of the compartment adjacent one side of the compartment; transferring said air directly to the opposite side of the compartment; circulating said air across the compartment adjacent the top thereof to the first mentioned side; and reducing the moisture content of the said air to a dewpoint below that at which said moisture would be condensed as by contact with the bounding surfaces of the compartment cooled by external temperature conditions.

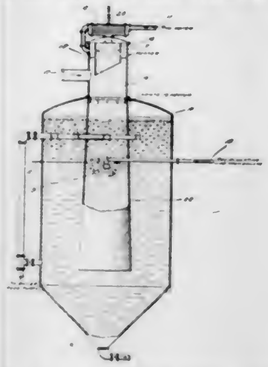
2,160,832

WATER TREATMENT

Peter M. Contant, Maywood, N. J., assignor to Neckar Company, Inc., a corporation of New York

Application May 26, 1937, Serial No. 144,899
12 Claims. (Cl. 210—14)

1. In a water purification system, a water preheating chamber, a conduit for supplying heating fluid thereto, a heat reaction chamber receiving the heated water from said preheating chamber, a settling tank receiving the heated water from said heat-reaction chamber, means for additionally heating the water in said reaction chamber,



and means for supplying treatment chemicals to said additionally heated water.

2,160,833

COLD LAID ROCK ASPHALT PAVING MIXTURE AND METHOD OF MAKING

Joseph H. Conzelman, Birmingham, Ala., assignor to Alabama Asphaltic Limestone Company, Birmingham, Ala., a corporation of Alabama

No Drawing. Application May 7, 1937, Serial No. 141,243
16 Claims. (Cl. 106—31)

1. The method of preparing a cold laid paving mixture which comprises heating and mixing rock asphalt to which non-bituminous mineral aggregate has been added, adding thereto emulsified flux, water and bituminous cement, and mixing said minerals while in heated condition to strip added bitumen from the added non-bituminous aggregate to yield a workable mixture.

2,160,834

FUNGICIDAL SOAP

Sewell M. Corbett, Fort Bragg, N. C.

No Drawing. Application April 15, 1936, Serial No. 74,473
2 Claims. (Cl. 167—58)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

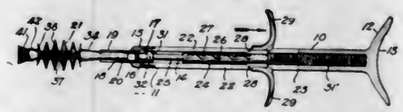
1. A prophylactic for the treatment of infectious diseases produced by the fungus group, consisting of a cake of soap prepared from a soap formula to which has been added sodium thiosulphate and a relatively small amount of copper sulphate.

2,160,835

COMBINED TOOTH BRUSH AND MASSEUR

Robert B. Davids, Baltimore, Md.

Application July 3, 1936, Serial No. 88,713
2 Claims. (Cl. 15—26)



1. A combined tooth brush and masseur comprising: a tubular casing open at its forward end and having a handle at its rear end, and having opposite longitudinal slots which extend from its forward end towards its handle; a rotatable shaft

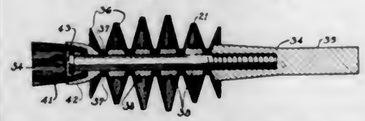
having a bearing engaging the casing and provided with a work implement supporting portion outside the same and an actuating portion extending part way into the casing; a sleeve reciprocally mounted on the actuating portion of the shaft within the casing and provided with a serpentine slot cooperatively connected with a cam-follower means fixed on the actuating portion of the shaft, and provided at its rear end with guides extending through the longitudinal slots and respectively terminating in finger grips outside the casing retractable towards the handle; and spring means in said casing interposed between the rear end of the sleeve and the casing for retraction of the sleeve against the spring means under pressure on the grips and propulsion of the sleeve by the spring means on release of pressure on the grips.

2,160,836

COMBINED TOOTH BRUSH AND MASSEUR

Robert B. Davids, Baltimore, Md.

Original application July 3, 1936, Serial No. 88,713. Divided and this application April 13, 1939, Serial No. 267,557
2 Claims. (Cl. 15—179)



1. A combined tooth brush and masseur element comprising a metallic core carrying a row of transverse rings of bristles each comprising an inner annulus and individual bristles looped around the inner annulus; collars of plastic material intermediate each two of the adjacent rings, said collars being in tight pressing engagement with the rings on opposite sides thereof to hold the annuluses of the rings against rotary movement relative to the core, said collars tightly pressing against the sides of the looped bristles so as to hold individual limbs thereof against others thereof to thereby rigidify them for withstanding flexing of the limbs of the looped bristles between their ends; and means for exerting pressure on the collars comprising plastic gripping members at opposite ends of the core buttressing the rings and collars at opposite ends of the row thereof to prevent movement of the rings and collars lineally of the metallic core.

2,160,837

MANUFACTURE OF COPPER PHTHALOCYANINE

Stanley R. Detrick, Gordon Heights, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 5, 1937, Serial No. 146,591
3 Claims. (Cl. 260—314)

1. In the process of producing a copper-phthalocyanine by heating metallic copper with an o-arylene-dicyanide, the improvement which comprises adding to the reaction mass a catalytic quantity of an inorganic salt selected from the group consisting of ammonium chloride, stannous chloride, stannic chloride, antimony trichloride, aluminum chloride and cuprous chloride, whereby to initiate the reaction at a temperature between 160 and 180° C., and maintaining the reaction mass at a temperature below 180° C. throughout the course of the reaction.

2,160,838

SEDIMENTATION

John van Nostrand Dorr, Westport, Conn., assignor to The Dorr Company, Inc., New York, N. Y., a corporation of Delaware

Application January 25, 1935, Serial No. 3,381
Renewed September 9, 1938
8 Claims. (Cl. 210—55)



1. A decantation and solids settling clarifier equipped for mechanically removing settled solids while the effluent overflow separation functions, which comprises in combination a longitudinally-extending rectangular horizontal tank that is substantially longer than wide or high and has upstanding boundary walls and a substantially horizontally-extending flat bottom for suspended solids to settle thereon, and has a solids discharge in the bottom, effluent outflow means including a substantially lineal and level overflow weir edge extending along the upper longitudinal portion of the tank and substantially parallel to the longitudinal axis thereof and designed to cause a substantially evenly distributed overflow to take place therealong; influent conveying and distributing means also extending parallel to said longitudinal tank axis and substantially the length of said overflow weir edge, which means have a submerged influent delivery portion extending within the boundaries of the tank and spaced from the bottom thereof, said submerged influent portion having in turn disposed along the length thereof a series of relatively closely-spaced and relatively restricted influent delivery openings adapted to deliver therethrough substantially evenly distributed influent component portions as from a longitudinal base corresponding to the length of the tank and of said influent-conveying means and into the liquid body in the tank, said submerged influent delivery portion otherwise cooperatively associated with and co-ordinated to said effluent weir in a manner to effect a general flow of said influent or influent component portions from said longitudinal base substantially upwardly and transversely of the tank to and over a substantially corresponding length of said overflow weir; and raking mechanism disposed in and relative to the tank interior for conveying settled solids over the tank bottom to said discharge, and including rake-supporting portions designed to extend exteriorly and clear of said submerged influent portion.

2,160,839

METHOD OF MAKING TEXTILE MATERIALS

Camille Dreyfus, New York, N. Y., and William Whitehead, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application March 3, 1936, Serial No. 66,870
10 Claims. (Cl. 18—54)

1. In a method of manufacturing colored artificial textile materials containing an organic derivative of cellulose, the steps of forming the textile materials by spinning a solution comprising a volatile solvent, an organic derivative of cellulose and silica gel into a solidifying medium and dyeing the said textile materials while in an unswollen condition with a cotton dyestuff.

2,160,840
THERMAL DEHYDRATION OF ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application July 7, 1937, Serial No. 152,379. In Great Britain July 17, 1936
11 Claims. (Cl. 260—547)

1. Process for the thermal dehydration of an aliphatic acid, which comprises subjecting the vapor of the aliphatic acid to the action of heat in the presence of a compound, the general formula for which comprises the grouping



where R_1, R_2 and R_3 are severally selected from the group consisting of hydrogen, alkyl, aryl and aralkyl radicles.

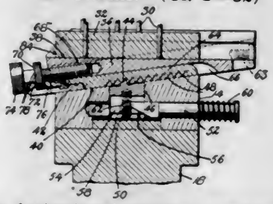
2,160,841
THERMAL DEHYDRATION OF ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application July 9, 1937, Serial No. 152,761. In Great Britain July 17, 1936
7 Claims. (Cl. 260—547)

1. Process for the thermal dehydration of an aliphatic acid, which comprises subjecting the vapor of the aliphatic acid to the action of heat in the presence of a completely amidated oxygen acid of phosphorus.

2,160,842
THERMAL DEHYDRATION OF ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application July 9, 1937, Serial No. 152,762. In Great Britain July 17, 1936
7 Claims. (Cl. 260—547)

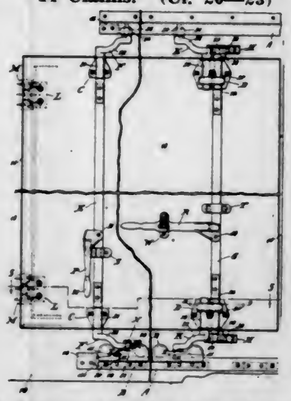
1. Process for the thermal dehydration of an aliphatic acid, which comprises subjecting the vapor of the aliphatic acid to the action of heat in the presence of a compound selected from the group consisting of the partially amidated oxygen acids of phosphorus and their esters.

2,160,843
DRIVER-ADJUSTING MEANS FOR FASTENING-INSERTING MACHINES
John A. Duran, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 7, 1938, Serial No. 217,961
12 Claims. (Cl. 1—32)



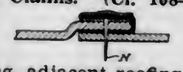
1. In a fastening-inserting machine, a reciprocatory actuating member, a plurality of fastening-drivers mounted upon the actuating member, an adjusting member movable through direct engagement by the operator to effect a relatively rapid change in the projection of the drivers from the actuating member, and a member engaging the adjusting member and movable by the operator to effect a more gradual change in the projection of the drivers.

2,160,844
REFRIGERATOR CAR DOOR
William M. Dwyer, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 17, 1938, Serial No. 185,305
14 Claims. (Cl. 20—23)



1. In a door construction for refrigerator cars having a wall member provided with a door opening, the combination with a door adapted to close said opening; of guide means on said car extending lengthwise of the same; a rotary operating bar on said door; means actuated by said bar when rotated in one direction for moving said door out of the door opening; and means automatically actuated by sliding movement of the door along said guide means for rotating said bar in a reverse direction for forcing said door into the door opening.

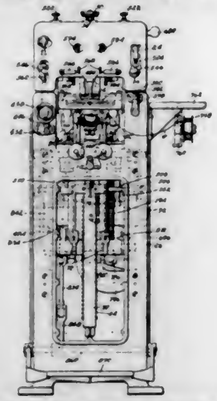
2,160,845
ROOFING OR SURFACING MATERIAL
Sidney Lanier Eason, Charleston, S. C.
Application June 1, 1935, Serial No. 24,533
4 Claims. (Cl. 108—7)



1. In roofing, adjacent roofing courses, a flexible strip extending along the adjacent edge of each course, each strip having one marginal portion thereof fastened to its related course and its other marginal portion free and constituting a flap, the flap of one strip being impervious and the flap of the other strip being pervious, the impervious flap being folded outwardly and overlying the marginal attached portion of the pervious strip, means for fastening the overfolded impervious flap in such position, the pervious flap being folded outwardly into overlying relation to the overfolded impervious flap, and means for fastening said overfolded pervious flap in such position.

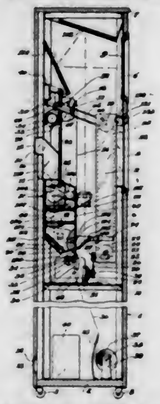
2,160,846
LASTING MACHINE
Fred C. Eastman, Marblehead, and Arthur F. Pym, Swampscott, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application October 19, 1937, Serial No. 169,820
120 Claims. (Cl. 12—14)

1. In a power-operated lasting machine, wipers for embracing an upper about the toe end of a last, power-operated means for imparting to said wipers an overwiping movement to wipe the marginal portion of the upper inwardly over an insole on the last and against a lip or shoulder on the insole and another overwiping movement thereafter to force a binder wire against the upstanding margin of the upper, and automatic means for bringing the machine to a stop after



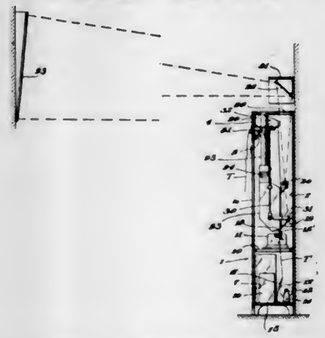
said first-mentioned overwiping movement of the wipers to permit the operator to apply binder wire about the toe and again after the wipers have forced the wire against the upper and while they are in pressure-applying relation to the wire to permit the operator to fasten the wire to the shoe.

2,160,847
PAGE PROJECTOR
August D. Eitzen, Rockville Centre, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application September 21, 1935, Serial No. 41,567
19 Claims. (Cl. 88—24)



1. The combination with a broad tape, of a page printer for marking said tape, a vertically extending projection field, and a tape moving device for drawing the tape upwardly through said projection field with the lines of printed matter extending transversely of the tape and horizontally, said tape moving device including a continuously operating motor, a drive operatively connected to said motor, a tape take-up roller, a slippage device for drivingly connecting said tape take-up roller with said drive, an escapement for anchoring said roller against rotation with said drive, and a control responsive to deflections in the tape when said printer advances the tape a line space initially to draw the tape across said projection field and operatively connected to said escapement to actuate said escapement into and out of position to anchor said roller against rotation with said drive.

2,160,848
PAGE PROJECTOR
August D. Eitzen, Rockville Centre, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application December 12, 1936, Serial No. 115,513
7 Claims. (Cl. 88—24)



1. The combination with a cabinet having a top wall having an opening extending along the rear end thereof and a laterally disposed chimney orifice forwardly of said opening, a front upper wall extending down from said top wall and having a tape discharge orifice therein, a tape pulling mechanism supported in the upper front portion of the cabinet in communication with said tape discharge opening, a support in the lower portion of said cabinet, and a panel supplementing said front upper wall to close the remaining front of the cabinet but removable to afford access to the interior of said cabinet, of a page printer mounted on said support with the tape extending upwardly therefrom in a vertical direction to said tape pulling mechanism to feed the same from said printer through said tape discharge orifice, vertically extending slideways in the front portion of said cabinet, a projector unit slidable on said slideways from a position directly above said printer to an upper position for the purpose of gaining access to the printer when said panel is removed, said projector unit including a lamp housing positioned in the front portion of said cabinet and having a chimney upwardly slidable through the chimney orifice in said top wall, and an optical system including elements to direct light horizontally through the vertically extending tape and then upwardly through said opening.

2,160,849
MULTISTAGE PRESSURE REGULATOR
Arthur J. Fausek and Irwing F. Fausek, Clayton, Mo.
Application April 12, 1937, Serial No. 136,293
6 Claims. (Cl. 50—23)

1. A multi-stage pressure regulator comprising a body portion, a gas inlet leading into said body portion, means for controlling passage of gas from said gas inlet into a high pressure chamber formed in said body portion, said means includ-

2,160,840
THERMAL DEHYDRATION OF ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application July 7, 1937, Serial No. 152,379. In Great Britain July 17, 1936
11 Claims. (Cl. 260—547)

1. Process for the thermal dehydration of an aliphatic acid, which comprises subjecting the vapor of the aliphatic acid to the action of heat in the presence of a compound, the general formula for which comprises the grouping



where R_1, R_2 and R_3 are severally selected from the group consisting of hydrogen, alkyl, aryl and aralkyl radicles.

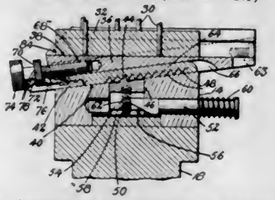
2,160,841
THERMAL DEHYDRATION OF ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application July 9, 1937, Serial No. 152,761. In Great Britain July 17, 1936
7 Claims. (Cl. 260—547)

1. Process for the thermal dehydration of an aliphatic acid, which comprises subjecting the vapor of the aliphatic acid to the action of heat in the presence of a completely amidated oxygen acid of phosphorus.

2,160,842
THERMAL DEHYDRATION OF ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application July 9, 1937, Serial No. 152,762. In Great Britain July 17, 1936
7 Claims. (Cl. 260—547)

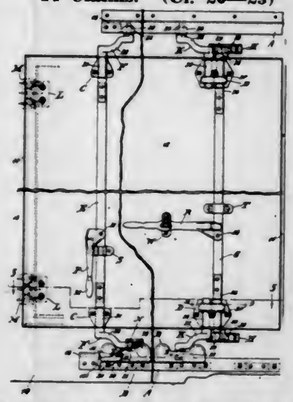
1. Process for the thermal dehydration of an aliphatic acid, which comprises subjecting the vapor of the aliphatic acid to the action of heat in the presence of a compound selected from the group consisting of the partially amidated oxygen acids of phosphorus and their esters.

2,160,843
DRIVER-ADJUSTING MEANS FOR FASTENING-INSERTING MACHINES
John A. Duran, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 7, 1938, Serial No. 217,961
12 Claims. (Cl. 1—32)



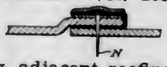
1. In a fastening-inserting machine, a reciprocatory actuating member, a plurality of fastening-drivers mounted upon the actuating member, an adjusting member movable through direct engagement by the operator to effect a relatively rapid change in the projection of the drivers from the actuating member, and a member engaging the adjusting member and movable by the operator to effect a more gradual change in the projection of the drivers.

2,160,844
REFRIGERATOR CAR DOOR
William M. Dwyer, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 17, 1938, Serial No. 185,305
14 Claims. (Cl. 20—23)



1. In a door construction for refrigerator cars having a wall member provided with a door opening, the combination with a door adapted to close said opening; of guide means on said car extending lengthwise of the same; a rotary operating bar on said door; means actuated by said bar when rotated in one direction for moving said door out of the door opening; and means automatically actuated by sliding movement of the door along said guide means for rotating said bar in a reverse direction for forcing said door into the door opening.

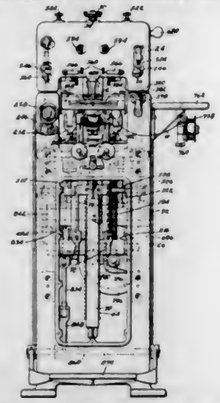
2,160,845
ROOFING OR SURFACING MATERIAL
Sidney Lanier Eason, Charleston, S. C.
Application June 1, 1935, Serial No. 24,533
4 Claims. (Cl. 108—7)



1. In roofing, adjacent roofing courses, a flexible strip extending along the adjacent edge of each course, each strip having one marginal portion thereof fastened to its related course and its other marginal portion free and constituting a flap, the flap of one strip being impervious and the flap of the other strip being pervious, the impervious flap being folded outwardly and overlying the marginal attached portion of the pervious strip, means for fastening the overfolded impervious flap in such position, the pervious flap being folded outwardly into overlying relation to the overfolded impervious flap, and means for fastening said overfolded pervious flap in such position.

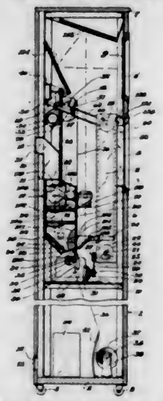
2,160,846
LASTING MACHINE
Fred C. Eastman, Marblehead, and Arthur F. Pym, Swampscott, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application October 19, 1937, Serial No. 169,820
120 Claims. (Cl. 12—14)

1. In a power-operated lasting machine, wipers for embracing an upper about the toe end of a last, power-operated means for imparting to said wipers an overwiping movement to wipe the marginal portion of the upper inwardly over an insole on the last and against a lip or shoulder on the insole and another overwiping movement thereafter to force a binder wire against the upstanding margin of the upper, and automatic means for bringing the machine to a stop after



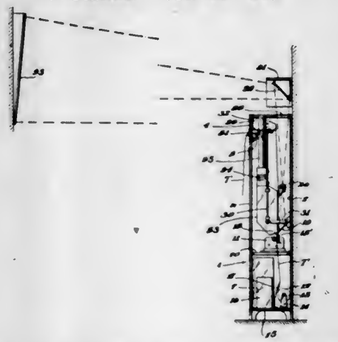
said first-mentioned overwiping movement of the wipers to permit the operator to apply binder wire about the toe and again after the wipers have forced the wire against the upper and while they are in pressure-applying relation to the wire to permit the operator to fasten the wire to the shoe.

2,160,847
PAGE PROJECTOR
August D. Eitzen, Rockville Centre, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application September 21, 1935, Serial No. 41,567
19 Claims. (Cl. 88—24)



1. The combination with a broad tape, of a page printer for marking said tape, a vertically extending projection field, and a tape moving device for drawing the tape upwardly through said projection field with the lines of printed matter extending transversely of the tape and horizontally, said tape moving device including a continuously operating motor, a drive operatively connected to said motor, a tape take-up roller, a slippage device for drivingly connecting said tape take-up roller with said drive, an escapement for anchoring said roller against rotation with said drive, and a control responsive to deflections in the tape when said printer advances the tape a line space initially to draw the tape across said projection field and operatively connected to said escapement to actuate said escapement into and out of position to anchor said roller against rotation with said drive.

2,160,848
PAGE PROJECTOR
August D. Eitzen, Rockville Centre, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application December 12, 1936, Serial No. 115,513
7 Claims. (Cl. 88—24)

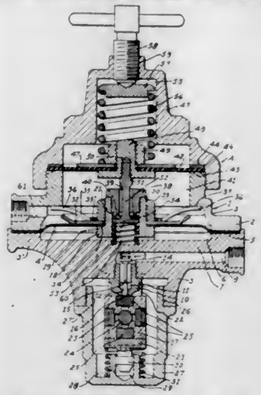


1. The combination with a cabinet having a top wall having an opening extending along the rear end thereof and a laterally disposed chimney orifice forwardly of said opening, a front upper wall extending down from said top wall and having a tape discharge orifice therein, a tape pulling mechanism supported in the upper front portion of the cabinet in communication with said tape discharge opening, a support in the lower portion of said cabinet, and a panel supplementing said front upper wall to close the remaining front of the cabinet but removable to afford access to the interior of said cabinet, of a page printer mounted on said support with the tape extending upwardly therefrom in a vertical direction to said tape pulling mechanism to feed the same from said printer through said tape discharge orifice, vertically extending slideways in the front portion of said cabinet, a projector unit slidable on said slideways from a position directly above said printer to an upper position for the purpose of gaining access to the printer when said panel is removed, said projector unit including a lamp housing positioned in the front portion of said cabinet and having a chimney upwardly slidable through the chimney orifice in said top wall, and an optical system including elements to direct light horizontally through the vertically extending tape and then upwardly through said opening.

2,160,849
MULTISTAGE PRESSURE REGULATOR
Arthur J. Fausek and Irwing F. Fausek, Clayton, Mo.
Application April 12, 1937, Serial No. 136,293
6 Claims. (Cl. 50—23)

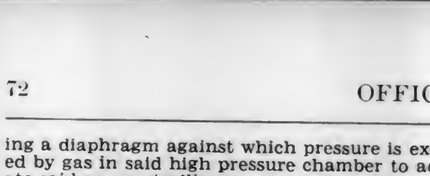
1. A multi-stage pressure regulator comprising a body portion, a gas inlet leading into said body portion, means for controlling passage of gas from said gas inlet into a high pressure chamber formed in said body portion, said means includ-

ing a diaphragm against which pressure is exerted by gas in said high pressure chamber to actuate said gas controlling means, a second gas controlling means for controlling passage of gas from said high pressure chamber to a low pressure chamber formed within said body portion, said second gas controlling means including a second



diaphragm against which pressure is exerted by gas in said low pressure chamber to actuate said second gas controlling means, the first mentioned diaphragm serving as a dividing wall between the high and low pressure chambers, and a gas discharge passageway leading from said low pressure chamber.

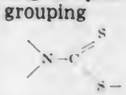
2,160,850
AIRSHIP
George Forton, Detroit, Mich.
Application August 17, 1936, Serial No. 96,353
3 Claims. (Cl. 244—62)



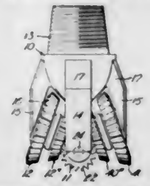
1. An air ship comprising a substantially cylindrical envelope, a frame arranged within and carrying the envelope, a partition positioned within the envelope, substantially at its longitudinal axis, dividing the envelope into an upper gas chamber and a lower load chamber, the envelope being formed with a pair of laterally opposed openings above and adjacent to said partition, a pair of spaced housings projecting into the gas chamber from the margins of said openings, a pair of propellers rotative in said housings and projecting therefrom through said openings, and means for reversely driving said propellers.

2,160,851
STABILIZED PETROLEUM OIL DISTILLATES
Jacob Faust, Belleville, N. J., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application April 2, 1937, Serial No. 134,522
13 Claims. (Cl. 44—9)

1. A petroleum oil distillate composition comprising a petroleum oil distillate inherently subject to autoxidation having normally a low induction period and a small amount of a dithiocarbamic acid compound sufficient to raise the normal induction period of said distillate said compound possessing in open chain configuration at least once the grouping

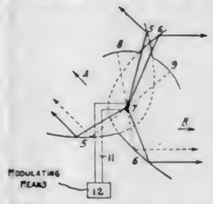


2,160,852
ROCK BIT
Louis A. Gauthey, Glendale, Calif., assignor of one-half to Charles Reder, Los Angeles, Calif.
Application April 12, 1937, Serial No. 136,343
3 Claims. (Cl. 255—71)



1. A well bit comprising, a body having spaced legs and a web depending between the legs, the legs having openings and the web having a pocket and openings joining the pocket, pins passed through the openings in the legs and extending into the openings in the web, cutters on the pins, a cutter in the pocket projecting from the lower end of the web, and an extension on one of the pins rotatably supporting said cutter.

2,160,853
REFLECTOR ARRANGEMENT
Ernst Gerhard and Hans Scharlau, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 25, 1936, Serial No. 70,720
In Germany April 3, 1935
4 Claims. (Cl. 250—11)

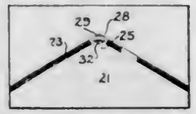


1. A short wave radio antenna system comprising two parabolic reflectors facing different directions and arranged to have a common focus and being so designed and constructed that portions of said reflectors which would overlap are omitted, a single antenna in the common focus of both said reflectors, and means for modulating the energy received on one of said reflectors and transmitting said modulated energy from said antenna through said other reflector.

2,160,854
PRODUCTION OF ISOPROPYL ETHER
Edwin R. Gilliland, Cambridge, Mass., assignor to Standard Alcohol Company, a corporation of Delaware
Application February 27, 1936, Serial No. 65,950
5 Claims. (Cl. 260—614)

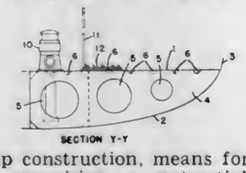
5. In the process of manufacturing ethers from olefins where olefins are absorbed in aqueous hydrating acid of over 80% strength to form reactive acid liquors, an improvement which comprises reducing the water vapor maintained at an elevated temperature the acid strength of the liquor below its strength at the absorption stage to a hydrolyzing strength and simultaneously vaporizing the more volatile fractions, fractionating the vapors and separating the ethers.

2,160,855
METHOD AND MEANS FOR RENEWING WEB ROLLS IN A PRINTING MACHINE
Charles W. Ginsberg, Brooklyn, and Raymond A. Freeman, Mount Vernon, N. Y., assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application July 18, 1935, Serial No. 31,974
6 Claims. (Cl. 242—58)



1. In combination, a web of a web roll having its leading end in the form of a salient angle, a strip of adhesive extending along each side of the angle, and means disposed at the apex of said angle to connect the leading end of said web to the next course of the web on said roll; said strip of adhesive being interrupted at the apex of said angle, and said web being perforated adjacent the apex and between the ends of the strip of adhesive where the same is interrupted.

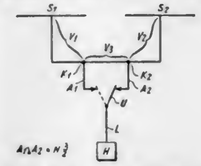
2,160,856
WATER DEAERATION
Lester M. Goldsmith, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 16, 1938, Serial No. 190,737
6 Claims. (Cl. 114—0.5)



1. In ship construction, means for deaerating sea-water comprising a water-tight chamber formed between the ship's double-bottom, a valve-controlled conduit connecting said chamber with the sea, a pump associated with said chamber for withdrawing deaerated sea-water therefrom, perforated frames disposed within said chamber to assist de-entrainment of air from sea-water impinging thereupon, and a vent for removing from said chamber air de-entrained from said sea-water.

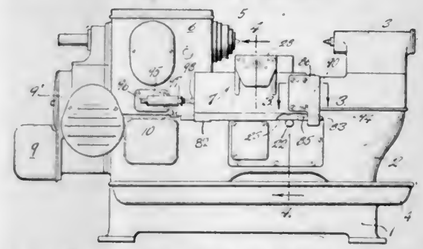
2,160,857
HIGH FREQUENCY SYSTEM
Albrecht Gothe, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 25, 1936, Serial No. 70,721
In Germany March 28, 1935
7 Claims. (Cl. 250—11)

3. An antenna system comprising a first antenna and a second antenna, a permanent connection devoid of concentrated reactance between said first and second antennas, high frequency translating apparatus, and means for alternately and rhythmically connecting said translating apparatus to two leads extending to



different points on said connection, said leads having such electrical lengths and geometrical dimensions that when the high frequency apparatus is connected to the one lead, the presence of the other lead does not disturb the current distribution in the system as a whole.

2,160,858
MACHINE TOOL
Bengt R. Granberg, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a corporation of Illinois
Application March 30, 1937, Serial No. 133,868
12 Claims. (Cl. 82—21)

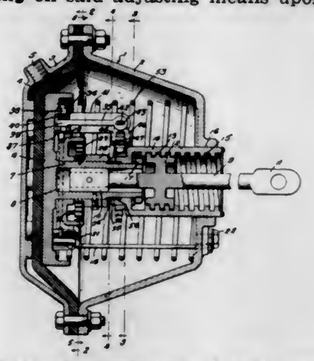


1. In a machine tool having a bed, a reciprocating support mounted on the bed and power means for operating the support, the combination of a member positioned adjacent the support, an element cooperable with the member operated by the power means for driving said member, yieldable engaging means releasably interconnecting said support and said member during a portion of the operation and releasable solely as a result of continuing operation of the power means when the carriage is positively arrested, and means secured to the bed for arresting movement of the support and thereby causing release of the engaging means during continued operation of the power means.

2,160,859
BRAKE SLACK TAKE-UP MECHANISM
Francis O. Grayson, Coral Gables, Fla.
Application November 12, 1937, Serial No. 174,236
14 Claims. (Cl. 188—202)

1. Brake slack adjusting apparatus comprising a casing, a fluid pressure actuated piston therein, a push rod actuated by said piston adapted to operate brakes, said push rod being slidable with respect to said piston whereby the virtual length of said push rod may be varied, means for adjusting the length of said push rod relative to said piston, and a measuring unit including a wheel and cable, said cable being attached to said wheel and windable thereupon, a spring within said wheel urging the wheel in a cable-winding direction, said wheel being attached to said piston and said cable being attached to said casing,

and means connected to said measuring wheel and acting on said adjusting means upon a de-



termined excess movement of said measuring wheel for effecting an adjustment in the virtual length of said push rod.

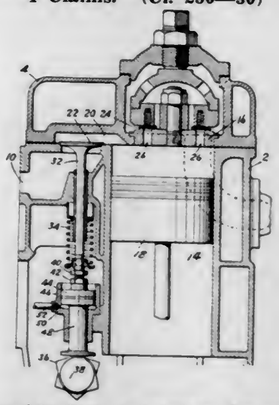
2,160,860

COMPRESSOR

Alfred N. Gustafson, West Chester, Pa., assignor to Schramm, Incorporated, West Chester, Pa., a corporation of Pennsylvania

Application February 20, 1936, Serial No. 64,808

4 Claims. (Cl. 230—30)



1. In combination, a receiver for compressed gas, a compressor connected to said receiver to deliver gas thereto including a cylinder and reciprocating piston therein, an intake valve for the cylinder, means for mechanically actuating the intake valve, and an exhaust valve operated automatically by the gas compressed in the cylinder when its pressure exceeds that in the receiver, and means for unloading the compressor when the pressure in the receiver exceeds a predetermined amount, said last means maintaining the intake valve open during an unloaded period.

2,160,861

PROCESS OF TREATING MARINE OILS

William Hassard, Vancouver, British Columbia, Canada, assignor to David B. Boyd, Los Angeles, Calif.

No Drawing. Application October 23, 1937, Serial No. 170,643

9 Claims. (Cl. 260—406)

1. A method of treating marine and animal oils to increase their iodine numbers and drying characteristics which comprises: producing intimate contact between the oil to be treated and an aqueous solution of potassium permanganate in the absence of mineral acid, and then separating the mixture to separately discharge treated oil and an aqueous solution.

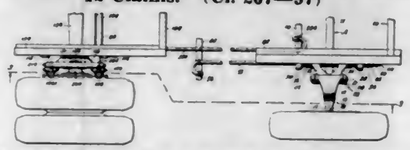
2,160,862

VEHICLE SUSPENSION

Albert F. Hickman, Eden, N. Y., assignor to Hickman Pneumatic Seat Co., Inc., Eden, N. Y., a corporation of New York

Application June 17, 1936, Serial No. 85,726

12 Claims. (Cl. 267—57)



1. A vehicle spring suspension connecting the frame and axle of a vehicle and comprising: bearings on said frame; a rock sleeve pivoted at its opposite ends on said frame in said bearings; a rock lever secured to said sleeve intermediate the bearings thereof and having a crank pin; resilient means for restraining rotation of said rock sleeve; an axle pivot connected with the axle; and a shackle pivoted at its opposite ends to said axle pivot and said crank pin.

2,160,863

HIGH VACUUM

Kenneth C. D. Hickman, Rochester, N. Y., assignor, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

Application June 10, 1937, Serial No. 147,514

In Great Britain July 6, 1936

6 Claims. (Cl. 230—101)



1. The process of producing high vacua which comprises sorbing gases from the zone to be evacuated upon a surface having the ability to sorb gases, moving the charged surface to a point where a pressure of less than about .1 mm. is maintained, discharging the sorped gases in the neighborhood of this point by heating or otherwise treating said surface and returning the surface for sorption of additional gas.

2,160,864

PRODUCING GALVANIZED METAL SHEETS OR ARTICLES

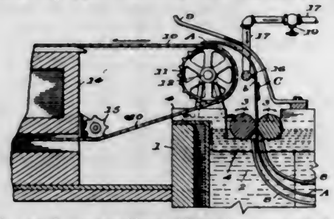
James H. Hill and Harry W. Theiss, Louisville, Ohio, assignors to Continental Steel Corporation, Kokomo, Ind., a corporation of Indiana

Application May 3, 1937, Serial No. 140,434

6 Claims. (Cl. 91—70.2)

1. The method of treating a metal sheet, comprising immersing the sheet in the customary zinc coating bath, and on the emergence of the sheet from the bath and before any substantial spangling takes place on one face thereof, subjecting said face to the influence of a cooling medium of a temperature not less than that of

minimum steam temperature and substantially less than the temperature of the coating on the sheet as it leaves the bath, whereby the coating contacted by said medium will be cooled but not



chilled, and spangling thereby prevented, and exposing the opposite face of said sheet to cooling means of a character to facilitate the formation of spangles thereon.

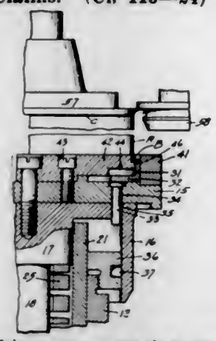
2,160,865

CAN HOLDING AND PROTECTING MECHANISM

Joseph C. Holloway, New Orleans, La., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application January 19, 1935, Serial No. 2,566

9 Claims. (Cl. 113—24)



1. In a machine for operating upon flanged articles the combination of, a support for a flanged article, means for applying a pressure on one end of said article while on said support as an incident to performing an operation on the article, means for confining the flange at the other end of said article to protect it against distortion while said pressure is being applied, and receding means included in said support for permitting said flange to move into engagement with said flange confining means and for ejecting said flange from said confining means.

2,160,866

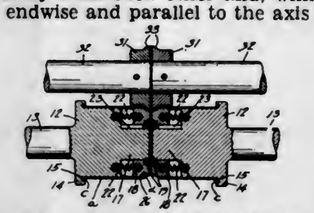
CONTAINER BODY FORMING MECHANISM

John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Original application June 20, 1933, Serial No. 676,749, now Patent No. 2,056,192, October 6, 1936. Divided and this application September 24, 1935, Serial No. 41,949

6 Claims. (Cl. 153—9)

1. An apparatus for making necked-in container bodies which comprises, the combination of a pair of rotatable beading heads for supporting a tubular body, beading rollers for forming a grooved bead in said body while it is being rotated by said heads, and means for moving said rollers first into the body wall at its center and thence away from each other and, while in operation endwise and parallel to the axis of rota-



tion to widen said grooved bead and form a necked-in section in the middle of said tubular body.

2,160,867

PROCESS FOR THE PRODUCTION OF THIAZOLES

Otto Hromatka, Darmstadt, Germany, assignor to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application September 23, 1937, Serial No. 165,413. In Germany September 26, 1936

5 Claims. (Cl. 260—251)

1. A process for the manufacture of thiazoles consisting in permitting to react simultaneously an acidamide, having at least one hydrogen atom in the amido group, an α-halogen-oxocompound and phosphorus pentasulfide.

5. A process for the manufacture of thiazoles consisting in allowing to react simultaneously 2-methyl-4-amino- 5 -formyl-aminomethyl-pyrimidine, 3 - aceto - 3 - chloro-1-acetoxypropane and phosphorus pentasulfide.

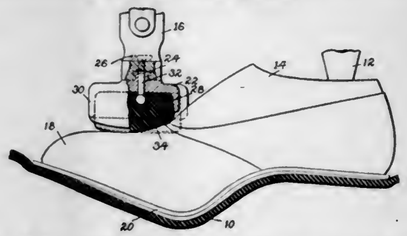
2,160,868

TOE REST FOR SHOE MACHINES

Arthur R. Hubbard, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application December 30, 1937, Serial No. 182,561

5 Claims. (Cl. 12—127)



1. A toe rest for shoe machines comprising a casing having side walls, a rubber pad fitting the casing and extending beyond the walls of the casing, and means located in the casing between said side walls for holding the pad in place against accidental removal but permitting it to be removed at any time by a pull applied thereto.

2,160,869

COMPOSITION OF MATTER

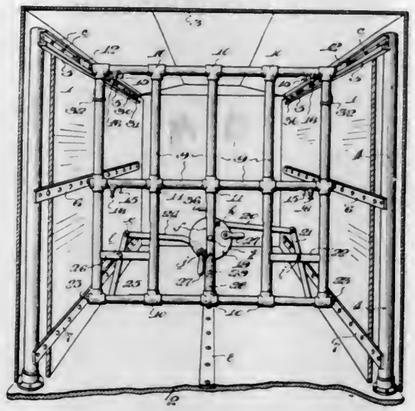
Mone R. Isaacs, Chelsea, N. J.

No Drawing. Application September 1, 1933, Serial No. 687,819

9 Claims. (Cl. 106—38)

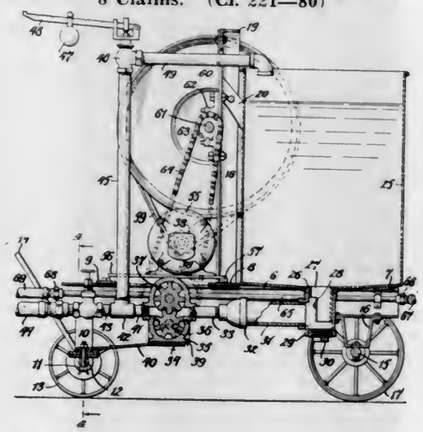
1. A composition of matter containing a protein, a water-soluble fluoride, lime, Canada balsam, and a solvent of said balsam.

2,160,870
OVERHEAD DROP BULKHEAD GATE
George F. Jones, Dallas, Tex.
Application June 25, 1936, Serial No. 87,152
2 Claims. (Cl. 105—376)



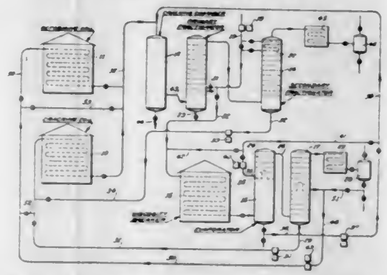
1. In a box car, a partitioning means and frame therefor, the latter comprising channel rails supported in spaced relation with the top of said car and a series of companion rails in parallel relationship with said channel rail, journal blocks slidingly mounted in said channel rails in confronting relationship, gates pivotally suspending from said blocks, means for locking said blocks against sliding movement, means for locking said gate in vertical and horizontal positions relative to said rails and torsion springs connected to said blocks and engageable with the sides of said gates for yieldingly suspending the same in a position intermediate said vertical and horizontal positions.

2,160,871
PORTABLE APPARATUS FOR SUPPLYING HEAVY MASTICS TO MASTIC APPLYING GUNS
Raymond E. Kelley, Snyder, N. Y.
Application April 2, 1937, Serial No. 134,672
8 Claims. (Cl. 221—80)



1. Portable apparatus for supplying a stream of heavy asphalt mastic under pressure, comprising a portable frame, a mastic supply tank resting on said frame and having an outlet at its bottom, an underslung pump carried by said frame and having its inlet and outlet extending horizontally in axial alinement with one another and both arranged below the outlet of said tank, a motor mounted on said frame and driving said pump, a pipe arranged under the outlet of said tank and connecting with the inlet of said pump, a discharge pipe attached to the outlet of said pump and a tail pipe secured to said tank and surrounding said tank outlet, said tail pipe slidingly fitting in the adjacent end of said first pipe.

2,160,872
CRACKING HYDROCARBON OILS
Lebbeus C. Kemp, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Texas
Original application March 24, 1936, Serial No. 70,628. Divided and this application February 25, 1939, Serial No. 258,387
3 Claims. (Cl. 196—49)



1. The process of cracking hydrocarbons that comprises passing hydrocarbon oil through a cracking coil to subject the oil to cracking therein, directing resultant cracked products into a reaction chamber maintained at a cracking temperature in which separation of vapors from liquid occurs and from which liquid is withdrawn at a rate adequate to prevent the accumulation of liquid therein, passing separated vapors to a primary fractionating zone, introducing charging stock comprising residual constituents of crude petroleum into contact with vapors therein and forming a composite fraction therein separate from said liquid being withdrawn from the reaction chamber and comprising resultant reflux condensate and unvaporized constituents of the charging stock, passing uncondensed vapors to a secondary fractionating zone wherein fractionation is carried on to separate out a gasoline distillate and a reflux condensate, directing reflux condensate thus obtained to said cracking coil, passing said composite fraction from the primary fractionating zone through a heating coil and subjecting the oil therein to moderate cracking conditions to produce viscosity-breaking thereof, subjecting the viscosity-broken products to distillation in a separate distilling zone to effect separation into a residue and vapors, fractionating separated vapors in a separate fractionating zone to separate out a gasoline-containing stock, directing said gasoline-containing stock to said cracking coil, maintaining temperature conditions in said cracking coil adequate to effect the reformation of gasoline constituents, and directing said residue into contact with the cracked products discharged from said cracking coil to effect the cracking thereof in said reaction chamber.

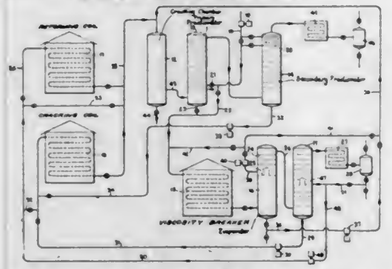
2,160,873
REFRACTORY MATERIALS
Hans Kerla, Baltimore, Md.
No Drawing. Application May 22, 1935, Serial No. 22,921
10 Claims. (Cl. 106—9)

1. As a new composition of matter, a raw refractory mix adapted to be formed into a baked article or a fired article and consisting of a member of the sillimanite group and an alkali silicate of about 36 to 41° Bé., the latter being insufficient to adversely affect the strength of baked products made therefrom and the refractory characteristics under service conditions of fired products.

2,160,874
PROCESS OF REGENERATING A BAUXITE ADSORBENT
Anton Kinsel, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application January 5, 1937, Serial No. 119,080
3 Claims. (Cl. 252—2)

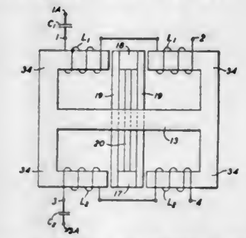
1. The improvement in processes of repetitious regeneration of bauxite comprising at least in one regenerating cycle roasting bauxite containing organic and ferriferous matter and obtained by contacting petroleum oil with a ferriferous bauxite having adsorbent properties, continuing the roasting to substantially combust said organic matter and to convert at least part of said ferriferous matter into para-magnetic matter, at least the final stages of the roasting being carried out in an oxidizing atmosphere so as to substantially remove all carbonize residue formed as the result of the combustion of said organic matter, thereafter removing said para-magnetic matter from the roasted bauxite by magnetic separation and recovering a regenerated bauxite of high adsorbent efficiency.

2,160,875
CRACKING HYDROCARBON OILS
Wayne E. Kuhn, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 24, 1936, Serial No. 70,628
4 Claims. (Cl. 196—49)



1. The process of cracking hydrocarbons that comprises passing hydrocarbon oil through a cracking coil to subject the oil to cracking therein, directing resultant cracked products into a reaction chamber maintained at a cracking temperature in which separation of vapors from liquid occurs and from which liquid is withdrawn at a rate adequate to prevent the accumulation of liquid therein, passing separated vapors to a primary fractionating zone, introducing charging stock comprising residual constituents of crude petroleum into contact with vapors therein and forming a composite fraction therein separate from said liquid being withdrawn from the reaction chamber and comprising resultant reflux condensate and unvaporized constituents of the charging stock, passing uncondensed vapors to a secondary fractionating zone wherein fractionation is carried on to separate out a gasoline distillate and a reflux condensate, directing reflux condensate thus obtained to said cracking coil, passing said composite fraction from the primary fractionating zone through a heating coil and subjecting the oil therein to moderate cracking conditions adapted to produce viscosity breaking thereof, fractionating the viscosity-broken products in a separate fractionating zone to separate out a heavy fraction and a light gasoline-containing fraction, directing the light gasoline-containing fraction to said cracking coil, maintaining temperature conditions in said cracking coil adequate to effect reforming of gasoline constituents, and bringing said heavy fraction into contact with cracked products discharged from said cracking coil to effect the cracking thereof in said reaction chamber.

2,160,876
ELECTROMECHANICAL TRANSDUCER
Emory Lakatos, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1936, Serial No. 101,061
17 Claims. (Cl. 178—44)

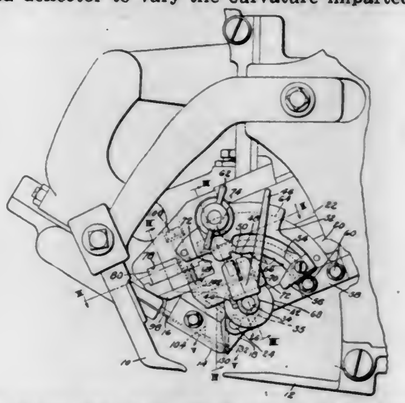


14. An electromechanical wave filter for freely transmitting a band of frequencies while attenuating frequencies falling outside of said band comprising an input flux path and an output flux path having a common branch, means for introducing direct flux into each of said flux paths, an input winding and an output winding associated respectively with said paths and a tuned mechanical vibratory system electromagnetically coupled to each of said paths whereby an alternating current falling within said band of frequencies introduced into said input winding produces in said vibratory system mechanical vibrations which cause variations in the magnitude of the direct flux in said output path and thereby induce corresponding alternating currents in said output winding.

2,160,877
FASTENING-INSERTING MACHINE
Harold Lane and William Neil Bray, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 28, 1937, Serial No. 182,111
In Great Britain February 3, 1937
15 Claims. (Cl. 1—20)

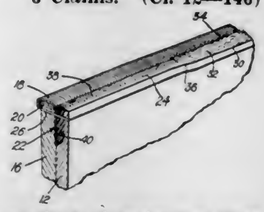
1. In a machine for driving staples into work, the combination with staple-forming means, a driver for driving staples thus formed, a nozzle from which the staples are driven by the driver, and a deflector for engaging the legs of each

staple before they enter the work and for curving them as they are driven into the work, of means for effecting a relative adjustment of said nozzle and deflector to vary the curvature imparted to



the staple legs, and mechanism movable simultaneously with said adjusting means to effect a corresponding variation in the length of the legs of staples formed by the staple-forming means.

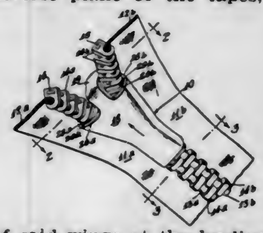
2,160,878
TREATING SHOE LININGS
Dominick La Valle, New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 24, 1936, Serial No. 117,549
3 Claims. (Cl. 12—146)



3. The method of making a shoe upper comprising a light-colored leather shoe lining having its grain surface exposed in the finished shoe which consists in applying directly to the flesh surface of said lining an ink of a color contrasting with that of the lining, said ink being of a quality and in a quantity to penetrate only part of the thickness of the lining and without discoloring the grain surface of the lining, said application being along a band including the line corresponding to the edge of the upper leather, combining said lining with the upper leather by a seam near the coated band with the lining extending beyond the upper leather, and trimming said lining within the coated band.

2,160,879
SLIDER
Birdsall P. Lawson, New York, N. Y., assignor to Ideal Fastener Corporation, Brooklyn, N. Y., a corporation of New York
Application December 16, 1937, Serial No. 180,210
4 Claims. (Cl. 24—205)

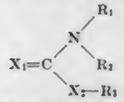
1. In combination with flexible interlocking stringers, incorporating scoops normally mounted in a central transverse plane angular to that of the tapes carrying the same, a slider comprising a body portion formed of opposing wings, one above the other, spaced to provide diverging channels merging into a single channel, said channels having their axes parallel to and below the transverse plane of the tapes, and means



on one of said wings at the leading end of the diverging channels for displacing the scoops from the normal angular position aforesaid to that wherein their central transverse planes are in parallelism to that of the tapes upon actuation of said slider.

2,160,880
LUBRICANT
Clarence M. Loane, Whiting, and Bernard H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application November 2, 1936, Serial No. 108,832
6 Claims. (Cl. 87—9)

1. An improved lubricant comprising a mineral lubricating oil and from about 0.05% to about 10% of a carbamic acid derivative having the general formula



in which X_1 and X_2 are elements selected from the group consisting of oxygen and sulfur, R_1 and R_2 are selected from the group consisting of hydrogen, an alkyl radical, and an aryl radical and R_3 is selected from the group consisting of an alkyl radical, an aryl radical and a metal.

2,160,881
LUBRICANT
Clarence M. Loane and Bernard H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application June 10, 1937, Serial No. 147,483
20 Claims. (Cl. 87—9)

1. A motor oil non-corrosive to hard metal alloy bearings having the corrosive susceptibility of alloys of the group consisting of cadmium-silver alloys, cadmium-nickel alloys and copper-lead alloys containing an organic ester of selenic acid selected from the group consisting of selenic acid esters having the general formula $OSe(XR)_2$ and

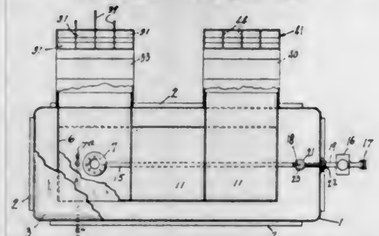


in which R is a radical selected from the group consisting of alkyl, aryl, hydro aryl, aralkylchloralkyl and chloraryl, Y is a halogen and X is an element selected from the group consisting of oxygen and sulfur, said organic ester of selenic acid being added in an amount not greater than about 2% but sufficient to render said motor oil non-corrosive to said hard metal alloys.

2,160,882
PROCESS OF MAKING AZO DYES
Herbert A. Lubs, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 24, 1937, Serial No. 165,489
2 Claims. (Cl. 8—13)

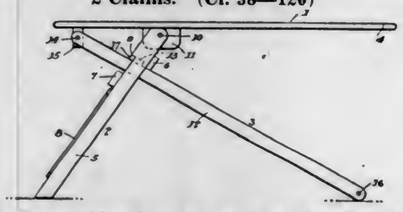
1. In the process of dyeing leather with a developable azo dye the step of treating the leather with sulfamic acid after the diazotization and prior to the application of the coupling component.

2,160,883
CIRCULATING SPACE HEATER AND VENTING MEANS THEREFOR
Allan W. Lundstrum, Portland, Oreg.
Application April 6, 1936, Serial No. 72,900
5 Claims. (Cl. 126—85)



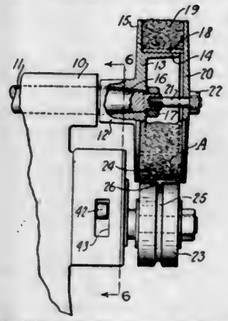
1. In a heater having a cabinet and a combustion chamber sealed with respect to the interior of the cabinet, the combination of an air intake duct and a flue duct both in communication with the combustion chamber and the atmosphere, baffle means formed on the outer ends of the ducts for directing air currents impinging thereon into the intake duct and out the flue duct in one direction.

2,160,884
IRONING BOARD
Antonio I. Maldonado, Los Angeles, Calif.
Application March 1, 1938, Serial No. 193,274
2 Claims. (Cl. 38—120)



1. In combination, an ironing board, a supporting member pivotally connected at its upper end to said ironing board nearer the rear end than the forward end of said board, said supporting member comprising a pair of legs and a cross bar connecting said legs near the pivot end of said supporting member, a second support-member pivotally connected to said ironing board at the rear end thereof and extending between the legs and under the cross bar of said first supporting member, and a cross bar secured to said second supporting member, said cross bar being of such length and so positioned that its ends engage the inner sides of the legs of said first supporting member when said supporting members are unfolded in supporting position and interengaging abutment means operatively associated with said first and second supporting members arranged and adapted to rigidly space the pivotal point of said second supporting member from said first supporting member.

2,160,885
POLISHING MACHINE
Elmer R. Martin, Springfield, Ohio, assignor to The Williams Company, London, Ohio, a corporation of Ohio
Application November 8, 1935, Serial No. 48,885
17 Claims. (Cl. 15—93)



10. A polishing device comprising a rotatable wheel having laterally spaced flanges, adapted to receive steel wool therebetween, a guide member engageable with said steel wool and movable between said flanges, and resilient means urging said guide member toward said wheel.

2,160,886
EXHIBITING DEVICE
William A. McCombs, New York, N. Y.
Application January 12, 1935, Serial No. 1,479
Renewed September 8, 1938
21 Claims. (Cl. 40—32)



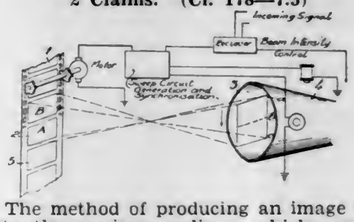
1. In an exhibiting device, an endless display strip, means for moving the strip, a hopper for containing excess portions of the strip; means for feeding the strip into the hopper, and withdrawing it therefrom at points adjacent the upper end of the hopper, the length of the strip employed with respect to the capacity of the hopper being such that folds of the strip in the hopper are maintained, by gravity, remote from the point of delivery, guides for directing the strip around the hopper and guides for positioning said strip accurately along said first named guides.

2,160,887
NECKTIE FORM AND HOLDER
Colin R. McKenzie, Oakland, Calif.
Application November 8, 1937, Serial No. 173,342
5 Claims. (Cl. 2—153)



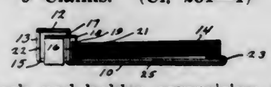
1. A tie form and holder comprising, a double leaf member adapted for engaging the opposite sides of one end of a tie and being arranged for inclusion within the tie knot for shaping said knot, and clamp means for holding said leaves against the opposite sides of said tie end.

2,160,888
METHOD OF RECORDING TELEVISION IMAGES
Rolf Möller, Berlin-Zehlendorf, Germany, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application December 10, 1935, Serial No. 53,785
In Germany December 12, 1934
2 Claims. (Cl. 178—7.5)



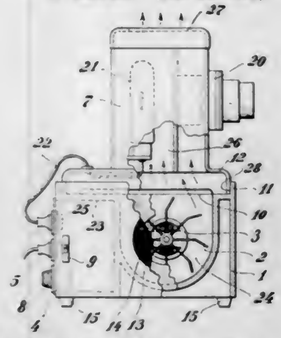
1. The method of producing an image upon a constantly moving medium, which comprises continuously moving an image carrier in front of the luminescent screen of a cathode ray tube, producing scanning strips on the luminescent screen and rhythmically changing the position of said scanning strips in a direction normal to their length in the sense of motion of the image carrier for a distance corresponding to the distance between adjacent lines of the picture plus the distance of movement of the image carrier during a line traversal.

2,160,889
CHECK PAD HOLDER
Harry R. Mortensen, Moorhead, Iowa
Application February 5, 1937, Serial No. 124,271
9 Claims. (Cl. 281—1)



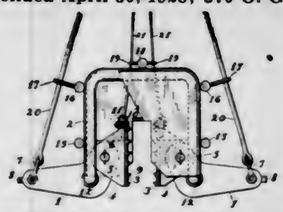
1. A check pad holder comprising a base, an upper flange extending substantially perpendicular from said base, a lower bent-over flange being formed on the lower edge of said holder and having a space therebetween, said lower flange adapted to receive the lower edge of the backboard of a pad, said upper flange adapted to maintain the upper edge of the pad in fixed position, a spring-urged point adapted to retain the upper edge of the pad.

2,160,890
VENTILATING DEVICE FOR PROJECTION APPARATUS
Hans Mulch, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany
Application February 5, 1938, Serial No. 188,941
In Germany March 11, 1937
1 Claim. (Cl. 88—24)



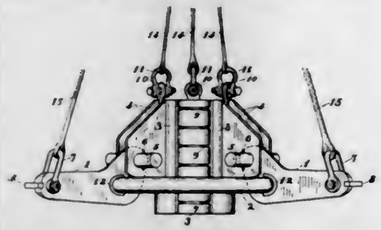
In combination with a projection apparatus including a housing provided with a base and forming a lamp chamber, an electric lamp in said chamber, air inlets in the bottom of said housing and air outlets in the top of said housing to conduct ventilating air currents upwards through said lamp chamber; a ventilating apparatus for detachably supporting said projecting apparatus to ventilate the same, said ventilating apparatus comprising a housing consisting of side walls and a top wall, said side walls extending upwards beyond the top wall to form a recess for receiving and supporting the base of said projection apparatus, said top wall having an air outlet within said upwardly extending walls registering and communicating with the said air inlet in the bottom of the projection apparatus, a fan in said ventilating apparatus for providing an air current upwards through the projection apparatus, a motor in the ventilating apparatus for driving the said fan, means on the ventilating apparatus for supplying current to said motor and for electrically detachably connecting the said lamp to the said current supply, the said ventilating apparatus forming a selfcontained ventilating unit for detachably receiving and supporting said projecting apparatus to ventilate the same, the base of the projection apparatus fitting closely within the upwardly extending walls of the ventilating unit.

2,160,891
POST OR PILE PULLING DEVICE
Samuel G. Neff, Fort Peck, Mont.
Application March 14, 1938, Serial No. 195,887
3 Claims. (Cl. 294—111)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



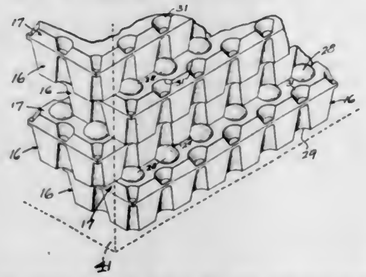
1. A lifting device of the class described comprising a rigid frame formed from a circular cross-sectional element defining the top and lateral edges of converging rectangular sides; bell crank levers having interiorly and exteriorly extending lever arms, fulcrumed at the intersection of the converging edges of said rectangular sides; gripping elements pivotally connected to the interiorly extending lever arms, and operating slings connected to said gripping elements and to the exteriorly extending arms of said bell crank levers.

2,160,892
POLE OR PILE PULLING DEVICE
Samuel G. Neff, Fort Peck, Mont.
Application March 14, 1938, Serial No. 195,888
2 Claims. (Cl. 294—111)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



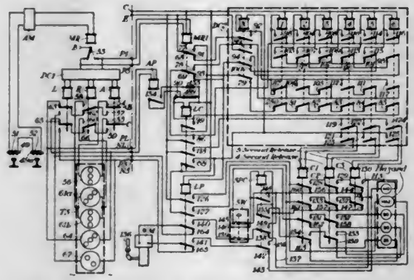
1. A lifting device of the class described comprising an equilateral triangular frame formed from a circular cross-sectional element, bell crank levers having interiorly and exteriorly extending lever arms fulcrumed at the intersection of the sides of said triangular frame, gripping elements pivotally connected to the interiorly extending lever arms, and operating slings connected to said gripping elements and to the exteriorly extending arms of said bell crank levers.

2,160,893
CONTAINER FOR EGGS AND THE LIKE
Kitchener K. Newsom, San Francisco, Calif.
Application June 8, 1936, Serial No. 84,114
8 Claims. (Cl. 206—65)



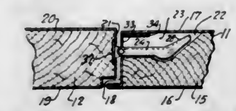
1. In combination, with an egg carrier adapted to contain a plurality of vertically stacked layers of eggs, a plurality of cartons so dimensioned that a number of cartons side by side fits as a layer in said carrier, each carton comprising a bottom portion, a top portion resting on the bottom portion to form an enclosure, rows of concavo-convex seats on the inside of the bottom and the top of the carton, the concave sides of corresponding seats in said bottom and top facing each other, each pair to retain an egg therebetween in the carton, a plurality of rows of inverse indentations on the outside of said top and bottom being offset with respect to the respective seats and being so spaced to be engaged by convex sides of the seats of another carton in the vertical stack so as to hold the superposed layers of cartons of the stack and the eggs in said cartons, alternately staggered with respect to each other equidistant laterally and longitudinally of the cartons.

2,160,894
RAILWAY TRAFFIC CONTROLLING APPARATUS
Frank H. Nicholson, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 28, 1937, Serial No. 166,101
16 Claims. (Cl. 246—63)



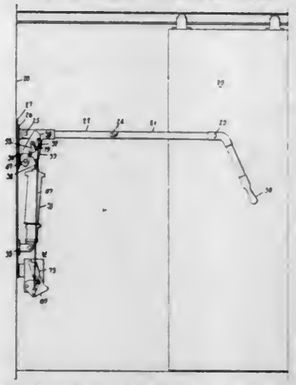
1. Railway traffic controlling apparatus for a railroad the track of which is characterized by fixed track hazards of different nature and which track is divided into insulated track sections for signaling, trackway apparatus for the section next in the rear of a given fixed track hazard including traffic governed means and a code transmitter and operative to supply to the track rails of the section current of any one of a plurality of different codes according to different traffic conditions in advance of the section, and said code transmitter of predetermined construction to modify each of said code currents supplied to the rails of the section by a distinctive characteristic selected according to the nature of said fixed hazard.

2,160,895
DOOR CHECK
Stanley W. Nicholson, Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application September 12, 1938, Serial No. 229,429
5 Claims. (Cl. 16—82)



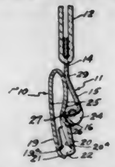
1. In a vehicle body, in combination, a door post, a door, a hinge connecting said parts, one of said parts being hollow and having an opening in its wall, and a rigid arm pivoted to the other of said parts and having its end portion extending freely into said opening, said arm being constructed and arranged to bear on one side against said other part and on the opposite side against a side of said opening so that when the door is in fully opened position further movement is checked by a shearing stress imposed on said arm.

2,160,896
INTERLOCKING MECHANISM
Clifford Norton, Springfield, N. J., and Philip Karmel, New York, N. Y., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application August 4, 1936, Serial No. 94,142
14 Claims. (Cl. 187—31)



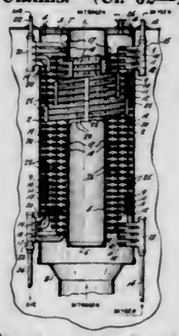
1. In an elevator installation; a hatchway closure; operating means for said closure; a latch mounted on a stationary pivot; and means movable by said operating means for cooperating with said latch to prevent reopening of said closure beyond a predetermined point in advance of fully closed position, after said closure in closing has passed said point, until said closure is first moved to fully closed position.

2,160,897
GARMENT HOLDING CLIP
Lee Oliver, New York, N. Y., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn., a corporation of Connecticut
Application May 24, 1937, Serial No. 144,400
2 Claims. (Cl. 24—258)



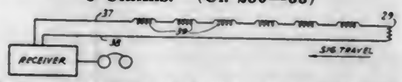
1. A garment holding clip comprising a one piece body member of resilient sheet metal of substantially U-shape providing a front arm and a rear arm, said arms having inwardly directed end portions at their free ends forming cooperating gripping means to hold a garment, said arms also having inwardly directed edge portions at their side edges extending backwardly away from said free end portions arranged to grip the garment and hold the clip against sliding sidewise on the garment, said rear arm having inwardly and oppositely inclined portions leading to an intermediate recess, said forward arm being provided with integral ears on its opposite side edges extending backwardly on opposite sides of the rear arm, a lever having means for securing it to a garment supporting web and including a downwardly and rearwardly inclined portion leading from said securing means, means pivotally mounting the lever on and between said ears, and the lower end portion of said lever extending forwardly to provide a free edge to engage said rear arm and ride on an inclined portion thereof to and from said recess on pivotal turning movements of the body on said lever to cause movement of the gripping ends of the arms toward and from each other to grip and release the garment.

2,160,898
HEAT EXCHANGE APPARATUS FOR RECTIFYING COLUMNS
Peter Peff, West Orange, N. J.
Application March 16, 1938, Serial No. 196,192
3 Claims. (Cl. 62—122)



1. Heat exchange apparatus for the purposes described, comprising means to provide an annular housing chamber arranged to receive, for outgoing movement therethrough, nitrogen gas discharged from a rectifying column, a series of down-flow air conduit coils extending through said housing chamber interior to conduct ingoing compressed air to the interior of said rectifying column, an up-flowing oxygen conduit coil extending through said housing chamber interior to conduct outgoing oxygen for discharge from said rectifying column, said air and oxygen conduit coils being arranged in concentric closely spaced relation with some of the air conduit coils disposed inwardly of and adjacent to and some outwardly of and adjacent to the oxygen conduit coil, all arranged so that nitrogen gas may flow contiguous to and in contact with all air and oxygen conduit coils, and spacer means to maintain said coil runs uniformly spaced concentrically to provide passages for the flow movement of nitrogen therebetween and contiguous thereto.

2,160,899
DIRECTIVE ANTENNA SYSTEM
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application May 29, 1934, Serial No. 728,072, now Patent No. 2,095,078, dated October 5, 1937. Divided and this application May 8, 1936, Serial No. 78,550
9 Claims. (Cl. 250—33)

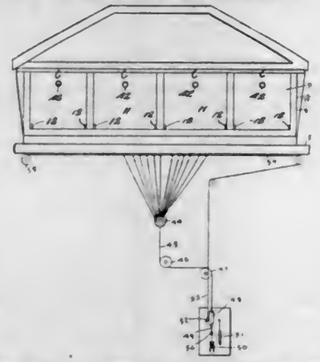


7. In a receiving antenna system having two conductors extending in the general direction of travel of the wave to be received and which are coupled together at both their ends, the method of operation which comprises building up increments of voltage of the same polarity on said conductors from components of said received wave as said wave travels along the lengths of said conductors, and causing the resultant energy in one of said conductors, which is available for utilization purposes, to continuously lag behind the resultant energy in the other of said conductors by a predetermined amount.

2,160,900
METHOD FOR VAPOR CLEARING
Clellan Ross Pleasants, San Francisco, Calif.
No Drawing. Application April 23, 1934, Serial No. 721,969
6 Claims. (Cl. 252—1)

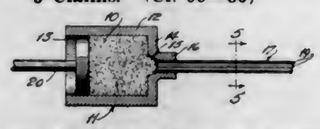
1. The method of freeing air or other gases from condensed vapor particles comprising the burning of a hydrocarbon mixture containing chlorine, and introducing the gases created by said burning into atmosphere to react with said vapor particles.

2,160,901
SKYLIGHT CONSTRUCTION
Abraham Ratner, East Orange, and Martin E. Anderson, Newark, N. J.
Application September 30, 1936, Serial No. 103,268
1 Claim. (Cl. 108—16)



A skylight construction consisting of a steel frame, a series of gravity opening closures mounted on the frame, a cable connected with each closure, a common connector for all of the cables, a cable connected with the connector, a spring wound shading curtain mounted to work under the closures, a cable connected to the curtain, a coupling device carried by the second named cable having an arm thereon on which the curtain cable may be restrained, a cable connected with said coupling device, and means for restraining the last named cable, whereby upon the release of said last named cable all of the gravity closures and the spring actuated curtain will be released.

2,160,902
METHOD OF MANUFACTURING FOOD PRODUCT
Charles A. Raymond, Marion, Ohio
Application June 8, 1937, Serial No. 147,135
5 Claims. (Cl. 99—86)



1. The method of manufacturing a crispy food product having a potato base which includes severely beating cooked potato until the mass attains a taffied or gummy state, mixing salt, a chemical leavening and albumen to the taffied or gummy mass, adding sufficient flour to the mass to produce a dough-like mass, forming the material into such shape that the material will thoroughly cook, and finally toasting the material until it is crisp.

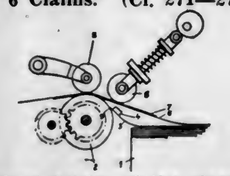
2,160,903
POLYMERIC VINYLIDENE CHLORIDE
John H. Reilly and Ralph M. Wiley, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 9, 1937, Serial No. 168,200
1 Claim. (Cl. 260—80)

The product obtained by polymerizing monomeric vinylidene chloride having a boiling point between 31.5° and 32° C., inclusive, which product is substantially insoluble in boiling chloroform, carbon bisulphide, ethylene bromide, or benzene, sparingly soluble in boiling tetrachloroethane, substantially unchanged in composition when heated in a glass container at 180° C. for one hour, and resistant to attack by acids, bases, and oxidizing agents at room temperature.

2,160,904
PLASTIC DERIVATIVES OF VINYLIDENE CHLORIDE
John H. Reilly and Ralph M. Wiley, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 12, 1937, Serial No. 168,626
6 Claims. (Cl. 260—36)

1. A composition comprising polymeric vinylidene chloride prepared from monomeric vinylidene chloride having a boiling point between 31.5° and 32° C., plasticized with between 5 and about 45 per cent, based on the weight of plasticized composition, of a material selected from the group consisting of chlorinated diphenyl oxides, chlorinated diphenyls, each of the foregoing containing between about 3 and about 6 chlorine atoms per molecule, chloro-naphthalenes, and polychloro-benzenes, to increase the workability of the polymer at low temperatures and to increase toughness and strength thereof when subjected to heat-treatment.

2,160,905
SHEET FEEDING MECHANISM
Robert Reinartz, Offenbach, near Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Faber & Schleicher, A. G., Offenbach-on-the-Main, Germany, a corporation of Germany
Application December 2, 1936, Serial No. 113,801
In Germany December 3, 1935
6 Claims. (Cl. 271—27)



1. In a sheet feeder of the class adapted for feeding sheets in lapped sequence, and including means for moving the separating members

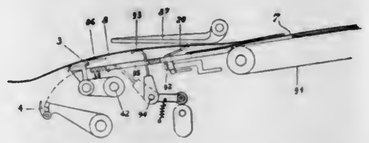
around the edge of a fed sheet, the combination of sheet separating and forwarding means, including separating members arranged to separate the top sheet from a pile of sheets, and sheet forwarding means adapted to receive sheets separated by said members and comprising a driven feed roller and a pressure roller cooperating therewith and positively moved radially away from said feed roller in order to permit a newly separated sheet to be placed beneath a previously fed lapped sequence of sheets and thereopon urge it against said feed roller so that said sheet will be conveyed together with said sequence of sheets, said sheet separating members, after having transferred a sheet to said forwarding means, reverting to their initial position around the lateral edges of said sheet.

2,160,906

SHEET FEEDING AND REGISTERING DEVICE

Robert Reinartz, Offenbach, near Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Faber & Schleicher, A. G., Offenbach-on-the-Main, Germany, a corporation of Germany

Application January 22, 1937, Serial No. 121,805
In Germany January 23, 1936
17 Claims. (Cl. 271—53)



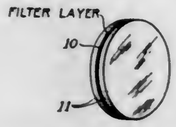
1. In combination with a sheet feeder adapted to feed sheets in lapped sequence, the provision of mechanism including a sheet support, sheet registering guides, means for advancing sheets over said support to said guides, means for removing registered sheets from said support, and sheet lifting means acting on a single sheet to raise it while located over said support, said lifting means extending across the entire width of a sheet and being operated independently of any other of said aforesaid means.

2,160,907

FILTER FOR ULTRA-VIOLET LIGHT

Earle E. Richardson, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

Application March 31, 1936, Serial No. 71,907
7 Claims. (Cl. 95—2)



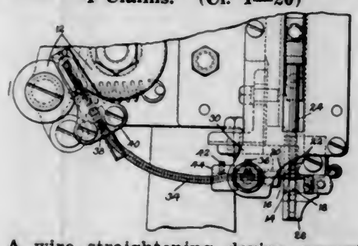
1. A multi-layer photographic film comprising a transparent support, a plurality of emulsion layers, thereon, and over one of said emulsion layers, a layer of gelatin containing a cyanine dye selected from the group consisting of 2:2'-dialkyl oxacyanine halides, 2:2'-dialkyl dibenzoxacyanine halides, and 3:3'-dialkyl thiazolocyanine halides.

2,160,908

WIRE STRAIGHTENING DEVICE

Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application January 25, 1938, Serial No. 186,868
4 Claims. (Cl. 1—20)



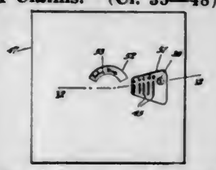
1. A wire straightening device comprising a flexible tube supported at its end portions, abutments for limiting movement of the tube between its end portions to movement in a single plane, and a screw engaging a portion of the tube between said abutments and adjustable to vary the configuration of the tube in said plane.

2,160,909

RECORDING DEVICE

Cecil L. Ross, Upper Montclair, N. J.

Application June 18, 1938, Serial No. 214,519
11 Claims. (Cl. 35—48)



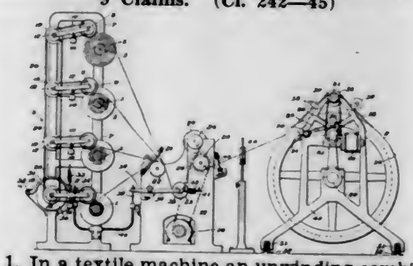
1. A device as characterized comprising a plurality of disks of which one disk provides a plurality of sockets therein arranged in series and of which one socket of each series extends through the disk and the other sockets of each series have bottoms formed in the disk whereby a tool for rotating the disks introduced in any of the said sockets passes through the disk having said sockets only upon selection of the socket which extends through said disk, and means covering said sockets in use to prevent visual determination of which socket extends through said disk, said covering means being puncturable.

2,160,910

MACHINE FOR WINDING TEXTILE STRANDS

Leslie A. Runton, Andover, Mass.

Application February 18, 1938, Serial No. 191,163
9 Claims. (Cl. 242—45)



1. In a textile machine an unwinding combination comprising a plurality of yarn packages, means for mounting said packages whereby the yarn thereon will be unwound therefrom by pull on the yarn and rotation of said yarn packages, means for drawing the yarn from said packages by pull thereon and rotation of said yarn packages, rotary traction members, means for mounting said traction members whereby they will have constant traction engagement with said yarn packages and be rotated thereby when said traction members are free to rotate, or function as brakes to stop the rotation of said yarn packages when the rotation of said traction members is stopped, interconnecting mechanism whereby said traction members will be interconnected to rotate in unison when said traction members are free to rotate and for stopping the rotation of said traction members on stopping the operation of said interconnecting mechanism, and means for stopping the operation of said interconnecting mechanism on stoppage of said means for drawing the yarn from said yarn packages.

2,160,911

FLUSHING OIL

Robert P. Russell, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 28, 1934, Serial No. 745,937
5 Claims. (Cl. 87—9)

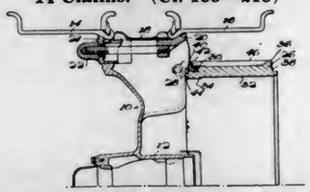
1. A flushing oil comprising a petroleum oil of the class consisting of kerosene and gas oil, and 0.01 to 10% of a metallo-organic compound capable of reducing the cone deposit of the lubricating oil subsequently employed in the engine.

2,160,912

BRAKE DRUM

William D. Sargent, New York, and Charles G. Keller, Hyde Park, N. Y.

Application December 28, 1935, Serial No. 56,572
Renewed October 31, 1938
14 Claims. (Cl. 188—218)



1. A cast iron brake drum comprising a single piece cylindrical shell having an internal brake shoe engaging friction surface, an external flange along one edge and a plurality of closely spaced axially-extending uninterrupted cooling fins rooted in said flange.

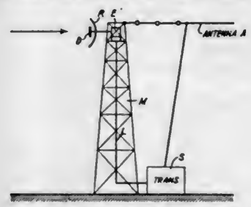
2,160,913

RELAYING

Hans Scharlau, Wilhelm Runge, Werner Buschbeck, and Karl Fritz, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application August 14, 1936, Serial No. 96,042
In Germany August 24, 1935
4 Claims. (Cl. 250—15)

1. A relaying system comprising an ultra-short wave receiving antenna adapted to receive signals to be relayed, a reflector in the rear of said antenna, said reflector having a polarizing grid arranged at right angles to the polarization plane of the incoming signal waves, and a receiver therefor, a tall mast for supporting said short wave antenna, reflector and receiver at the top thereof, a transmitter at the bottom of said mast adapted to respond to said received signals, a connection from said short wave receiver to said



transmitter, means for shielding said connection and receiver, a transmitting antenna adapted to be energized by said transmitter, said last antenna also being supported from said mast, and an energy feeder extending from said transmitter to said transmitting antenna.

2,160,914

METHOD OF BLENDING MATERIALS AND APPLYING BLENDED MATERIALS TO CEREALS

Hermann H. Schmidt, Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo.

No Drawing. Application September 13, 1937, Serial No. 163,650
27 Claims. (Cl. 99—6)

1. The method of producing a uniform mixture of a plurality of materials that are difficult to mix, comprising subjecting said materials to a whirling at such a velocity as to finely divide each of the same and mixing the same while each thereof is in such finely divided condition while subjected to such a whirling.

2,160,915

LUBRICANT

William Schreiber, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application October 24, 1936, Serial No. 107,367
3 Claims. (Cl. 87—9)

1. A lubricant comprising hydrocarbon oil and a small amount, sufficient to impart extreme pressure properties to the oil, of a cyclo-polymethylene compound containing a phosphorus atom and an oxygen atom within the ring.

2,160,916

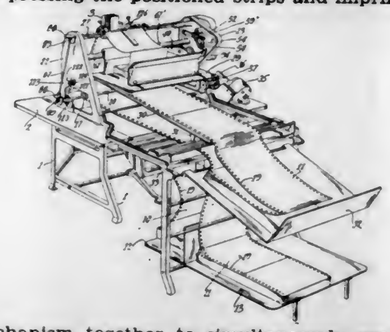
PAPER FEEDING MECHANISM

John Q. Sherman and Albert W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman

Application August 6, 1937, Serial No. 157,706
24 Claims. (Cl. 101—47)

1. In a strip feeding and imprinting apparatus wherein continuous strip stationery receives at longitudinally spaced intervals imprinted legends predetermined by legend determining elements advanced seriatim at timed intervals from a source of supply into an imprint control position, imprinting mechanism for imprinting the stationery at spaced intervals, dual feeding means for differentially advancing superposed strips of record material past an imprinting position and arresting the strips with succeeding differently

spaced prescribed areas upon the respective strips in registry with each other and in registry with the imprinting position, impression taking means for pressing the positioned strips and imprinting



mechanism together to simultaneously produce impressions upon both strips, and driving means for actuating the imprinting mechanism and dual feeding means in timed sequence.

2,160,917

LUBRICANT

Bernard H. Shoemaker and Clarence M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application June 10, 1937, Serial No. 147,484

9 Claims. (Cl. 87—9)

1. A lubricating oil non-corrosive to hard metal alloy bearings having the corrosive susceptibility of alloys of the group consisting of cadmium-silver, cadmium-nickel and copper-lead alloys which comprises a highly refined petroleum lubricating oil normally corrosive to bearings of the cadmium-silver type and from about 0.05% to about 2% of an organic ester of boric acid selected from the group consisting of boric acid esters having the general formulae $B(XR)_3$ and $X{=}B(XR)$ in which R is a radical selected from the group consisting of alkyl, aryl, hydroaryl, aralkyl, and X is an element selected from the group consisting of oxygen and sulfur.

2,160,918

PROCESS OF AND APPARATUS FOR BLEACHING FLOUR

Campbell Houk Smith, Knoxville, Tenn., assignor to J. Allen Smith & Company, Knoxville, Tenn., a corporation of Maine

Application April 1, 1929, Serial No. 351,517

Renewed August 3, 1938

23 Claims. (Cl. 83—42)



1. A process of bleaching flour which includes delivering the flour onto an approximately horizontal plane imperforate surface; imparting to said surface approximately horizontal gyratory movement such as to cause the flour to be spread upon and to travel over and off said surface with simultaneous shifting of the flour particles relative to each other during said travel; confining the flour to said surface during its travel thereover; and bringing a bleaching agent into contact with the flour while it is traversing said surface.

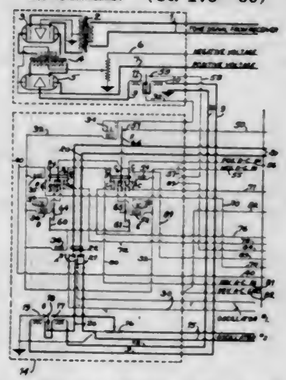
2,160,919

HIGH SPEED RECORDING SYSTEM

Hans O. Storm, Palo Alto, Calif., assignor to Globe Wireless Ltd., San Francisco, Calif., a corporation of Nevada

Application July 27, 1938, Serial No. 221,558

12 Claims. (Cl. 178—88)



1. In a telegraph system, the method of recording high speed message signals on a plurality of separate moving units comprising dividing the messages into blocks at the transmitter by omitting signals therebetween for a predetermined length of time, receiving said signals, recording said signals on one of said units, partially completing a circuit by movement of said unit after a predetermined amount thereof has been used for recording, thereafter utilizing the change of current between message blocks to complete said circuit, and utilizing the completed circuit to shift recording to another unit.

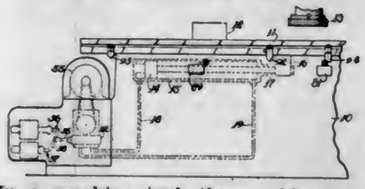
2,160,920

CONTROL FOR MACHINE TOOLS

Marion L. Strawn, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois

Application July 3, 1936, Serial No. 88,726

10 Claims. (Cl. 90—21.5)



9. In a machine tool, the combination of a work support, a metal removing tool, power actuated mechanism for effecting relative translatory movement of said work support and tool toward and away from each other, control means for said power actuated mechanism including a plurality of energizable electric solenoids, and means responsive to an interruption in the voltage applied to said solenoids for causing said control means to effect relative movement of said work support and said tool away from each other.

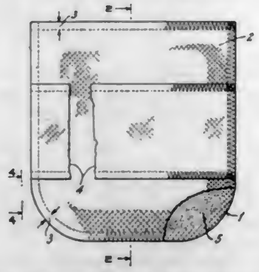
2,160,921

CLEANING APPLICATOR

John H. Stroop, New York, N. Y., assignor of one-half to Russell B. Kingman, Orange, N. J.

Application November 3, 1936, Serial No. 108,982

5 Claims. (Cl. 51—186)



1. A dry cleaning pad for cleaning surfaces without moistening and without smearing comprising, a bag having a porous wall, a content of abrasive powder enclosed within said bag, said powder being of a fineness adapted to sift through the pores of said bag wall, and a binding agent interspersed through said abrasive powder which is adapted to cohere the powder particles in a coalesced mass when quiescent, whereby the powder is caused to bridge the pores of said bag wall so as to be retained against sifting therethrough, said binding agent being non-resistant to pressure when the pad is operatively manipulated whereby the powder particles are freed by pressure for sifting exudation through the pores of said bag wall.

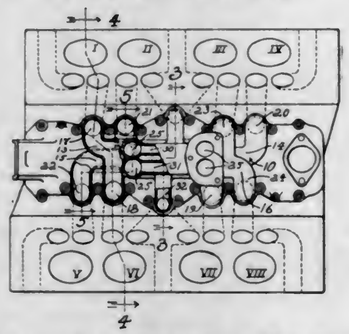
2,160,922

INTAKE MANIFOLD

Donnell A. Sullivan, Dearborn, Mich.

Application August 14, 1936, Serial No. 95,995

3 Claims. (Cl. 123—52)



1. An intake manifold for a V–8 internal combustion engine having substantially independent carburetting means for each pair of related cylinders thereof including a pair of manifold sections, each comprising two branches, each branch communicating with one of said carburetting means, respectively, and means providing restricted communication between the inlet end portions of the two branches of each manifold section, respectively, for preventing blow-back of fuel mixture through said carburetting means, said branches being so constructed and arranged that suction exists in one branch when back flow tends to occur in the other.

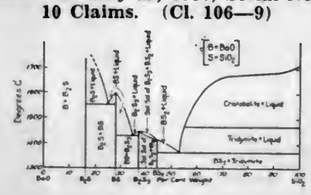
2,160,923

REFRACTORY MATERIAL

John D. Sullivan, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio

Application February 11, 1937, Serial No. 125,283

10 Claims. (Cl. 106—9)



System $BaO-SiO_2$

1. A refractory material consisting of barium oxide and silica in total proportion of from 5 to 35 per cent of the entire mass and the balance substantially all magnesium oxide.

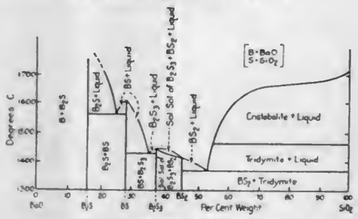
2,160,924

REFRACTORY MATERIAL

John D. Sullivan, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio

Original application February 11, 1937, Serial No. 125,283. Divided and this application May 24, 1937, Serial No. 144,359

14 Claims. (Cl. 106—9)



System $BaO-SiO_2$

1. The method of making a refractory material which comprises mixing raw magnesite, barium oxide and silica in such proportions that on subsequent heating the resulting product will be characterized by having magnesium oxide as its principal constituent, and heating to effect decomposition of the magnesite, combination of the barium oxide and silica followed by dead-burning of the magnesia.

2,160,925

MOUNTING OR CARRIER FOR BLADES OR KNIVES FOR PUG MILLS OR OTHER MIXING APPARATUS

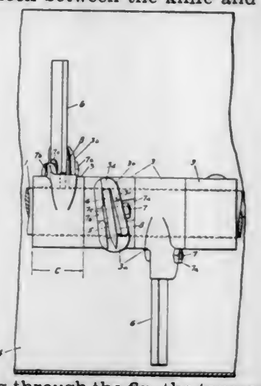
James D. Thompson, Eureka, Calif.

Application February 28, 1938, Serial No. 193,110

1 Claim. (Cl. 83—6)

A knife mounting and knife for a pug mill comprising a rotary shaft, a carrier of the character described on the shaft, a boss formed on the carrier that is provided with a radial pocket, integral knife supporting fins at the rear and on the thrust receiving side of said pocket in registry with the inside thereof, a knife in said pocket

that is supported by said fins, an interchangeable tapered block between the knife and the side fin



and bolting through the fin, the tapered block and the knife.

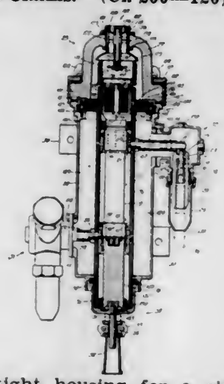
2,160,926

CIRCUIT INTERRUPTER HOUSING

Hugh A. Triplett, Wilmette, and Allan Ramsey, Evanston, Ill., assignors to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Application April 30, 1937, Serial No. 139,852

75 Claims. (Cl. 200—120)



1. A fluid-tight housing for a circuit interrupter of the blast action arc extinguishing type comprising, in combination, a metal tank, means removably mounting the circuit interrupter therein in insulated spaced relation, an insulated expansion chamber for receiving the products of the arc resulting from the blast action, and means providing fluid-tight connections between said metal tank and said mounting means and between said metal tank and said expansion chamber.

2,160,927

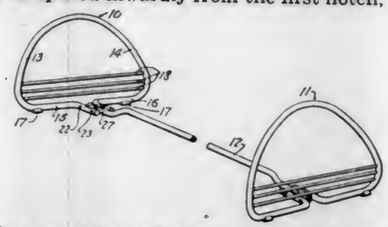
FRAME FOR A GLIDER OR THE LIKE

Louis Vavrik, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio

Application August 28, 1936, Serial No. 98,369

3 Claims. (Cl. 5—129)

1. In a glider, a pair of spaced upright end frames, each frame having an inwardly extending foot consisting of laterally spaced rod-like parts, a pair of pins spaced from each other connecting said rod-like parts, a rail connecting said end frames, each end of said rail having a notch in the extreme end thereof and a notch in the upper side thereof spaced inwardly from the first notch, said



notches receiving said pins respectively, and a latch member holding each end of the rail and adjacent frame in assembled relation.

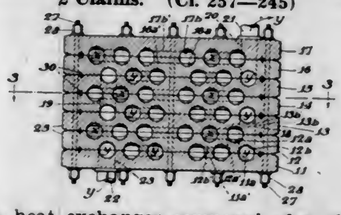
2,160,928

SPLIT SECTION HEAT EXCHANGER

Vanderveer Voorhees, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application July 28, 1937, Serial No. 156,068

2 Claims. (Cl. 257—245)



1. A heat exchanger composed of a plurality of integral metal blocks placed face-to-face in series relation and including a first outside block, a plurality of intermediate blocks, and a second outside block, a sinuous conduit confined between each adjacent pair of said faces, said respective conduits being formed by juxtaposed complementary depressions in said respective adjacent faces, said complementary depressions comprising a plurality of substantially parallel circular sectioned conduits connected at their ends in series by return bends formed within the confines of said blocks, said return bends being elliptically shaped in cross section and connecting with said parallel circular sectioned conduits, additional passages through said blocks transverse of said faces and joining alternate ones of said sinuous conduits in series relation, whereby to define two continuous generally countercurrent paths for the flow of two fluids of different temperatures in heat exchange relation to each other, means connecting said paths with two fluid streams having different temperatures for effecting a heat exchange therebetween, each of said intermediate integral blocks functioning as a continuous uninterrupted metal heat transferring medium between said streams.

2,160,929

HERBICIDAL OILS

James Prince Warner and Alexis Voorhies, Jr., Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 3, 1935, Serial No. 43,384

4 Claims. (Cl. 167—45)

4. A herbicidal oil comprising a liquid product composed substantially of aromatic and unsaturated hydrocarbons having an aniline point of about 20° to —80° F. and a gravity of about 8° to 20° A. P. I. and obtained by hydrogenating a petroleum oil.

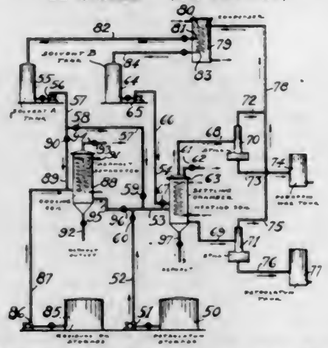
2,160,930

PROCESS FOR SEPARATING WAX FROM PETROLATUM

James M. Whiteley, Roselle, and Hans G. Vesterdal, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application March 23, 1935, Serial No. 12,730

11 Claims. (Cl. 196—17)



1. The method of separating petrolatum into fractions having different characteristics and properties which comprises dissolving the petrolatum in a light hydrocarbon solvent, heating the solution until the formation of two phases occurs, separating the two phases, and recovering a wax fraction from each of the obtained phases.

2. The method of separately recovering wax and petrolatum oil from a mixture containing the same which comprises dissolving the mixture in a light hydrocarbon solvent consisting essentially of hydrocarbons having between 1 and 5 carbon atoms, adding to the solution another light hydrocarbon solvent of lower molecular weight than the first light hydrocarbon solvent until the formation of two phases occurs, separating the two phases, and recovering paraffin wax from the upper phase and petrolatum from the lower phase.

3. The method of separately recovering wax from petrolatum which comprises dissolving the mixture in a light hydrocarbon solvent, decreasing the pressure maintained on the solution while maintaining substantially the same temperature until the formation of two phases occurs, separating the two phases and recovering petrolatum and paraffin wax respectively from the two phases.

2,160,931

CO-POLYMERIZATION PRODUCTS

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 1, 1936, Serial No. 88,403

15 Claims. (Cl. 260—80)

1. In a process for preparing a plastic, the step which consists in reacting a compound selected from the group consisting of 1,1-dichloroethylene and 1-chloro-1-bromo-ethylene, with not more than an equal amount of a vinyl ester to produce polymeric bodies containing between about 5 and about 30 per cent by weight of the vinyl ester co-polymerized with said dihalo-ethylenes.

2,160,932

CO-POLYMERS OF VINYLIDENE CHLORIDE

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application February 1, 1937, Serial No. 123,479. Renewed January 24, 1939

8 Claims. (Cl. 260—80)

1. The method which comprises reacting vinylidene chloride with a styrene compound selected from the group consisting of styrene, and homologs thereof whether ring- or chain-substituted to produce co-polymeric bodies containing between about 2 and about 60 per cent by weight of the said styrene compound co-polymerized with the vinylidene chloride.

2,160,933

POLYMERIZATION OF VINYLIDENE HALIDES

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application June 4, 1937, Serial No. 146,418

8 Claims. (Cl. 260—80)

1. The method which comprises polymerizing a vinylidene halide in the presence of a catalyst mixture consisting of tetraethyl lead, an oxygenating agent, a poly-halo oxygen-containing organic compound selected from the group consisting of poly-halo phenols, poly-halo hydrocarbon-substituted phenols, chloroacetyl chloride, and poly-halo aryl ethers, and a material selected from the group consisting of copper, copper oxide, and copper salts.

2,160,934

POLYMERIZATION OF VINYLIDENE CHLORIDE

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application September 16, 1937, Serial No. 164,127

7 Claims. (Cl. 260—80)

1. A catalyst for the polymerization of vinylidene halides which comprises an organic peroxide and a metal carbonyl.

2,160,935

POLYMERIZATION OF VINYLIDENE HALIDES

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application September 16, 1937, Serial No. 164,128

14 Claims. (Cl. 260—80)

3. A catalyst for the polymerization of a vinylidene halide which comprises an agent selected from at least two of the groups: (*a*) metal-alkyl compounds, (*b*) peroxides, and (*c*) poly-halo oxygen-containing organic compounds selected from the group consisting of poly-halo phenols, poly-halo hydrocarbon substituted phenols, chloro-acetyl chloride, and poly-halo aryl ethers.

2,160,936

POLYMERIZING VINYLIDENE CHLORIDE

John H. Reilly and Charles R. Russell, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1937, Serial No. 164,520

4 Claims. (Cl. 260—80)

1. The process which comprises subjecting

monomeric vinylidene chloride to polymerization in the presence of a relatively small amount of a non-polymerizable, water-immiscible, inert liquid which is miscible with monomeric vinylidene chloride, the vinylidene chloride being the only polymerizable compound present, separating the so-formed granular polymer and freeing it from remaining solvent, the product being characterized by being readily moldable without decomposition.

2,160,937

POLYMERIZING VINYLIDENE CHLORIDE

John H. Reilly, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1937, Serial No. 164,521

4 Claims. (Cl. 18—57)

2. The process which comprises subjecting monomeric vinylidene chloride to polymerization at a temperature between about room temperature and about 90° C. in the presence of from 50 to 85 parts of a non-polymerizable, water-immiscible, inert liquid for each 50 to 15 parts of monomeric vinylidene chloride, whereby there is produced a gel having a liquefaction temperature of about 143° to 145° C., the said non-polymerizable liquid being miscible with monomeric vinylidene chloride and having a boiling point above about 145° C. and below the decomposition temperature of monomeric vinylidene chloride, the said monomeric vinylidene chloride being the only polymerizable compound present, thereafter heating the so-formed gel to a temperature above its liquefaction temperature, casting a film from the liquefied mixture, and removing the inert liquid from the film.

2,160,938

POLYMERIZING VINYLIDENE HALIDES

John H. Reilly and Ralph M. Wiley, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 13, 1937, Serial No. 168,790

6 Claims. (Cl. 260—80)

1. The process which comprises polymerizing a material selected from the group consisting of vinylidene halides and mixtures thereof with materials co-polymerizable therewith, wherein the vinylidene halide predominates, in the presence of a water-miscible inert liquid.

2,160,939

POLYMERIZATION OF VINYLIDENE HALIDES

Robert C. Reinhardt, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 14, 1937, Serial No. 168,935

5 Claims. (Cl. 260—80)

1. A catalyst mixture, for the polymerization of a vinylidene halide, which comprises tetraethyl lead, a peroxide, a poly-halo oxygen-containing organic compound selected from the group consisting of poly-halo phenols, poly-halo hydrocarbon-substituted phenols, chloro-acetyl chloride, and poly-halo aryl ethers and a material selected from the group consisting of electrolytically deposited spongy copper and spongy derivatives thereof prepared by chemical reaction upon its surface with a reagent selected from the group consisting of hydrogen chloride, hydrogen sulphide, and oxygen, without destroying its spongy structure.

2,160,940

VINYLIDENE CHLORIDE CO-POLYMERS

Edgar C. Britton, Clyde W. Davis, and Fred Lowell Taylor, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application April 1, 1938, Serial No. 199,496

12 Claims. (Cl. 260—78)

1. A co-polymer of from about 36.4 to 97.1 per cent of vinylidene chloride and correspondingly from about 63.6 to 2.9 per cent of co-polymerizable materials at least one of which is an unsaturated ester selected from the group consisting of the allyl, 2-methyl-allyl, 2-chloroallyl, crotonyl, and cinnamyl esters of dicarboxylic acids.

2,160,941

VINYLIDENE CHLORIDE CO-POLYMERS

Edgar C. Britton, Clyde W. Davis, and Fred Lowell Taylor, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application April 1, 1938, Serial No. 199,497

12 Claims. (Cl. 260—80)

1. A co-polymer of vinylidene chloride and other polymerizable materials at least one of which is selected from the group consisting of the allyl, 2-methyl-allyl, 2-chloroallyl, crotonyl, and cinnamyl esters of mono-carboxylic acids, wherein the amount of vinylidene chloride is greater than that of the therewith co-polymerized unsaturated ester.

2,160,942

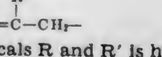
VINYLIDENE CHLORIDE CO-POLYMERS

Edgar C. Britton, Clyde W. Davis, and Fred Lowell Taylor, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application April 1, 1938, Serial No. 199,498

12 Claims. (Cl. 260—80)

1. A co-polymer of vinylidene chloride and other polymerizable materials, at least one of which is an unsaturated ester of an inorganic acid selected from the group consisting of hydrochloric, phosphoric, phosphorous, orthosilicic, and boric acids, the alcohol residue in the ester having the general formula



wherein one of the radicals R and R′ is hydrogen, R is a member of the class consisting of hydrogen, the phenyl radical, and the lower alkyl radicals, and R′ is a member of the class consisting of hydrogen, halogen, and the lower alkyl radicals.

2,160,943

VINYLIDENE CHLORIDE CO-POLYMERS

Edgar C. Britton and Clyde W. Davis, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 2, 1938, Serial No. 205,528

14 Claims. (Cl. 260—86)

1. A co-polymer of vinylidene chloride and other materials polymerizable therewith, at least one of which is an unsaturated aliphatic ether having the formula R—O—R′ wherein R is a member of the class consisting of the vinyl, allyl, 2-methyl-allyl, and allyloxy-methyl radicals, and R′ is a member of the class consisting of R, the lower alkyl radicals, the 2-chloroethyl, 2-hydroxy-ethyl, and epoxy-propenyl radicals.

2,160,944

STABILIZATION OF VINYLIDENE CHLORIDE

Gerald H. Coleman and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Original application December 1, 1936, Serial No. 113,742. Divided and this application May 31, 1938, Serial No. 211,026

5 Claims. (Cl. 23—250)

1. Monomeric vinylidene chloride stabilized with sufficient of an organic amino compound selected from the group consisting of the lower aliphatic amino- and phenyl series aromatic amino compounds to prevent polymerization.

2,160,945

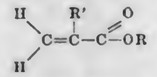
CO-POLYMERS OF VINYLIDENE CHLORIDE

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 2, 1938, Serial No. 217,219

12 Claims. (Cl. 260—80)

1. The method which comprises reacting vinylidene chloride with an acrylate selected from the group consisting of the lower alkyl esters of acrylic acid and its homologs, having the general formula



wherein R is a lower alkyl group and R′ is a member of the class consisting of hydrogen and alkyl radicals containing from 1 to 3 carbon atoms, inclusive, to produce co-polymeric bodies containing between about 1 and about 50 per cent by weight of the said acrylate co-polymerized with the vinylidene chloride.

2,160,946

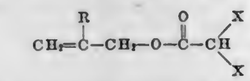
VINYLIDENE CHLORIDE CO-POLYMERS

Edgar C. Britton and Fred Lowell Taylor, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 25, 1938, Serial No. 221,167

7 Claims. (Cl. 260—80)

1. A co-polymer of vinylidene chloride and other polymerizable compounds at least one of which is an unsaturated ester having the general formula



wherein R is a member of the class consisting of hydrogen, the methyl radical and halogen, one X is halogen and the other X is a member of the class consisting of hydrogen and the same halogen, at least 50 per cent of the weight of the co-polymer being vinylidene chloride.

2,160,947

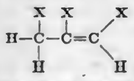
VINYLIDENE CHLORIDE CO-POLYMERS

Robert C. Reinhardt, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application August 1, 1938, Serial No. 222,449

11 Claims. (Cl. 260—80)

1. A product obtained by polymerizing together vinylidene chloride and up to an equal amount of a mono-halo-propene having the general formula



wherein one X is halogen and each other X is hydrogen.

2,160,948

VINYLIDENE CHLORIDE POLYMERIC COMPOSITIONS

Ralph M. Wiley, Francis N. Alquist, and Harold R. Slagh, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 23, 1937, Serial No. 170,642

10 Claims. (Cl. 260—36)

1. A composition of matter comprising a polymeric vinylidene chloride product plasticized with a compound selected from the group consisting of alkyloxy- and aryloxy-substitution products of propylene oxide and its homologs, to increase the resistance of the polymer to thermal decomposition and to increase the resilience and workability of the said polymer.

2,160,949

USE OF ALKALI VANADATES IN REDUCING VISCOSITY AND GELATION OF DRILLING MUDS

Milton Williams, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 16, 1937, Serial No. 169,460

12 Claims. (Cl. 255—1)

1. An aqueous slurry of solid mineral matter containing in solution an inorganic compound of vanadium in which the vanadium is present in the anion.

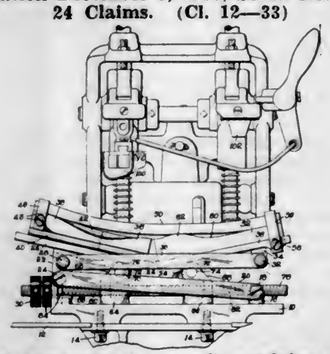
2,160,950

APPARATUS FOR USE IN APPLYING PRESSURE TO SHOE BOTTOMS

Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

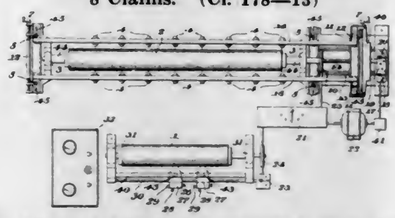
Application December 3, 1937, Serial No. 177,954

24 Claims. (Cl. 12—33)



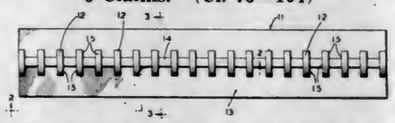
1. An apparatus for use in applying pressure to shoe bottoms comprising a pad, separate pad holding members, a fulcrum for each of said members about which each member swings, and means for adjusting said fulcrums lengthwise of the pad.

2,160,951
PROCESS AND DEVICE FOR THE REPRODUCTION OF DESIGNS ON PRINTING PLATES BY MEANS OF PHOTOELECTRICALLY CONTROLLED GRAVERS
Francesco Alice, Omegna, Italy
Application June 30, 1936, Serial No. 88,240
In Italy July 5, 1935
8 Claims. (Cl. 178—13)



1. An apparatus for engraving a multi-design on a fabric printing roll, comprising a fabric printing roll coated by a protective coating, a roll containing a design to be reproduced, means for supporting said rolls for rotation, means for rotating said rolls in synchronism, a photoelectric scanner, means for mounting said scanner for displacement axially of the roll containing the design to be reproduced, guide rails extending axially of said printing roll, a plurality of electromagnetic gravers mounted on said rails for movement axially of said printing roll, means for displacing said scanner and gravers in synchronism along said rolls, and means for inclining said graver guide rails relatively to the axis of said printing roll, said means being operable independently of the scanner mounting whereby the engraved design is distorted relatively to the scanned design by a predetermined amount.

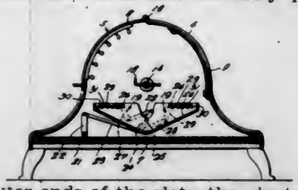
2,160,952
CONSTRUCTION OF CUTTER HEADS
Russell E. Benner, New York, N. Y., assignor, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application December 4, 1937, Serial No. 178,072
6 Claims. (Cl. 76—104)



1. The method of forming cutters for dry-shavers which consists in rolling teeth in a bar of stock while leaving the teeth joined by a thin web, then hardening, and then grinding away the web so as to free the ends of the teeth.

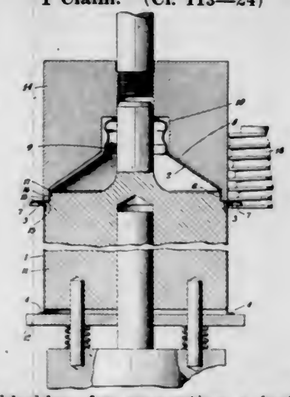
2,160,953
ROTARY MEAT-ROASTING MACHINE
Tom Berbeles, Canton, Ohio
Application September 21, 1937, Serial No. 164,953
1 Claim. (Cl. 53—5)

In a basting oven, a casing, a basting trough normally positioned within said casing at the bottom thereof, a rock shaft extending through the casing parallel to said basting trough, rock arms on the shaft each adjacent a respective side of the casing, links pivotally connected to the free ends of said rock arms, a lever at each end of the trough and pivoted intermediate its ends to the casing, a pair of levers at each end of the trough, each having a normally horizontal arm and a normally depending arm, the levers of said pairs being pivoted at the junction of their arms to the casing, links connecting respective ends of the first levers to the ends of the depending arms of the pairs of levers, said trough having end walls provided with horizontal slots, pins at the ends of the horizontal arms of the bent levers projecting into said slots and normally positioned



at the outer ends of the slots, the pivotal axes of the bent levers being normally adjacent the inner ends of said slots, and means exterior of the casing secured to the rock shaft for rotating the latter.

2,160,954
WORK HOLDER
Julius Brenzinger, Fairfield, Conn.
Original application May 5, 1936, Serial No. 77,938. Divided and this application May 21, 1937, Serial No. 143,901
1 Claim. (Cl. 113—24)

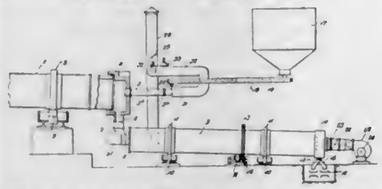


A workholder, for supporting a body having at one end an outwardly extending flange, and a superposed top having a dependent rim of smaller diameter than that of the body and having an outwardly extending flange that projects from said rim and is of a diameter greater than that of the outwardly extending flange of the body, comprising: a mandrel to sustain the body and limit its endwise movement, said mandrel having a ledge to engage, within the boundary of the body and substantially at the level of the flange of the body, one surface of the flange of the top, and having also an upstanding wall to engage the inner surface of said rim; and a chuck to cooperate with said mandrel, said chuck having a dependent wall to engage the outer surface of said rim, and having also a clamping portion below said wall to engage the outwardly extending flange of the top at the other surface thereof.

2,160,955
METHOD OF METALS SEPARATION
Harry H. Burton, Whitman, Mass., assignor to Burton-Allen Gold Reclaiming Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 19, 1936, Serial No. 106,373
2 Claims. (Cl. 209—174)

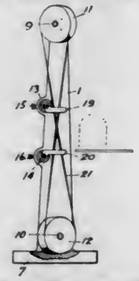
1. In the separation and recovery of the free precious metal content of ores, sands, etc., the improvement which consists in subjecting said ores, sands, etc., in the presence of a dilute cyanide solution, to contact with a molten "bismuth series" alloy containing a small percentage of antimony said alloy having previously been boiled in a strong cyanide solution and maintaining by heat the molten condition of said alloy for the non-amalgamative segregation therein of said metallic content.

2,160,956
AIR CONTROL FOR KILN-COOLER ASSEMBLIES
Richard D. Cheesman, Allentown, Pa., assignor to Traylor Engineering and Manufacturing Company, Allentown, Pa., a corporation of Delaware
Application August 3, 1938, Serial No. 222,940
14 Claims. (Cl. 263—53)



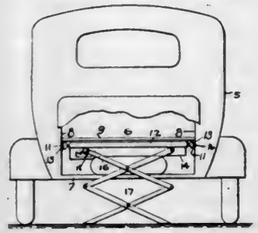
1. A method for insuring uniform heating conditions within a kiln of the rotary type having a cooler connected in circuit therewith for cooling the material discharged from the kiln, said method comprising introducing fresh air into the cooler in heat transfer relation with the material contained therein and thence delivering said air into the kiln to support combustion of the burner flame therein and controlling the temperature of the heated air entering the kiln in accordance with the temperature of the material in the cooler.

2,160,957
BREAD SLICING MACHINE
Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa
Application November 14, 1938, Serial No. 240,237
20 Claims. (Cl. 146—88)



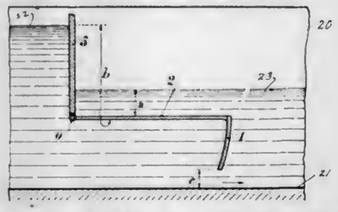
1. In a bread slicing machine, a horizontal base with supporting frame united thereto, a lower shaft revolvably mounted in the frame parallel with the base but at an acute angle to the transverse axis of the machine, an oppositely inclined upper shaft mounted in the frame in a plane parallel to the horizontal plane of the lower shaft and extending at an acute angle to the transverse axis of the machine, similar revolvable blade-carrying pulleys or drums mounted upon said shafts respectively with the center point of the upper pulley and the center point of the lower pulley approximately in a single straight line parallel to the frame and at a right angle to the parallel planes of the pulleys, a plurality of band-blades mounted upon said pulleys for travel therewith and crossed in figure 8 form.

2,160,958
TABLE ATTACHMENT FOR AUTOMOBILES
William Critchlow, New Castle, Pa.
Application November 20, 1937, Serial No. 175,660
1 Claim. (Cl. 311—21)



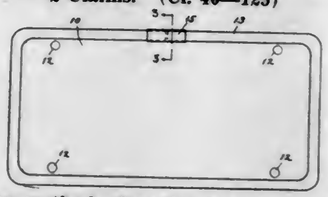
The combination with the body of an automobile, of a pair of oppositely disposed and fixed channel members therein, a table top having rollers at its opposite edges for engaging in the channels and supporting the top, a cross member hingedly attached to the outer end of the top and provided with ratchet teeth, and a supporting member in the form of a lazy tong pivotally secured at one of its legs to the cross piece, the other leg adapted at its free end to engage said teeth to lock the lazy tong in place and to support said top when extended for use, said supporting and cross member being foldable beneath the top when not in use.

2,160,959
AUTOMATIC GATE
Pierre Francois Danel, Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France, a company of France
Application December 15, 1936, Serial No. 116,024
In France January 4, 1936
8 Claims. (Cl. 61—25)



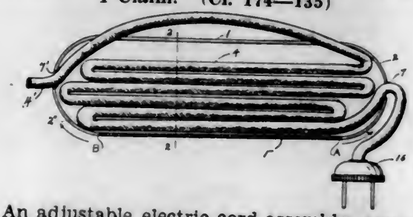
1. In a water system, an open channel defined by side and bottom walls and having a sudden drop in the level between upstream and downstream reaches, a vertical wall separating the upstream and downstream reaches, extending across said channel between the side walls and having its lower edge spaced above the bottom wall, a substantially horizontal platform positioned between the side walls on the downstream side of the vertical wall and having its upstream end hinged to the lower edge of the vertical wall, and a gate leaf depending from the downstream end of the platform and extending across the channel, said gate leaf being in the form of a sector of a cylinder the axis of which coincides with the axis of the hinge between the platform and vertical wall.

2,160,960
TRIMMING FOR LICENSE PLATES
Howard J. Dinstbir, Butler, Pa.
Application January 18, 1938, Serial No. 185,535
2 Claims. (Cl. 40—125)



2. The method of applying a garniture to a license plate which comprises causing the ends of abbreviated rubber strip material to embrace one edge of the plate, in proximity to each other, fastening them together and upon the plate while intermediate portions of the strip hang loosely in a loop, and stretching the strip longitudinally about the perimeter of the plate, thereby flattening its sides around the plate corners.

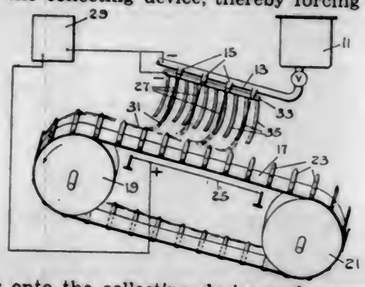
2,160,961
CORD HOLDER
Gerson Dorman, Baltimore, Md.
Application March 2, 1938, Serial No. 193,567
1 Claim. (Cl. 174—135)



An adjustable electric cord assembly, comprising in combination an electric cord having a section thereof folded in a plurality of loops, the end portions of said cord extending outwardly in opposite directions from said fold, an elongated casing for retaining said cord loops having small openings in its end sections slightly larger than the said cord for accommodating the said extended end portions of said cord, a slot of uniform width extending along one side of said casing and connecting with the said end openings through which the said cord is admitted to the casing and means for normally holding the said slot in closed position.

2,160,962
METHOD AND APPARATUS FOR SPINNING
Anton Formhals, Mainz, Germany, assignor of forty-five one hundredths to Richard Schreiber-Gastell, Mainz, Germany
Application July 1, 1936, Serial No. 88,430
5 Claims. (Cl. 18—8)

2. In an apparatus for the electrical spinning of fibers, a solution feeding device for forming a stream of spinning solution, a moving fiber collecting device horizontally spaced from said feeding device, means for creating a high electrical potential between said devices whereby to electrically disperse the stream into fibers and direct the same towards said collecting device, and an electrically charged fiber influencing means of the same polarity as that of the feeding device positioned below and adjacent the feeding device, said means having at least a portion thereof positioned in a vertical plane passing through the space between the feeding and collecting devices and being of a shape as to direct the fibers onto the collecting device, thereby forcing stray



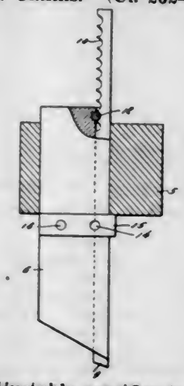
fibers onto the collecting device and preventing said fibers from leaving said collecting device and flying back to the feeding device.

2,160,963
COLLAPSIBLE CONTAINER
John H. Fridén, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Application April 30, 1936, Serial No. 77,136
9 Claims. (Cl. 220—27)



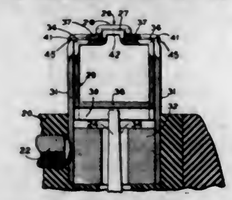
1. A collapsible metal container comprising a seamless tubular side wall and an integral end closure including an outer frusto-conical shoulder portion, a continuous, readily shearable central portion substantially in a plane perpendicular to the axis of the tube, and a member integral with and projecting from said central portion, said end closure and member being constructed and arranged to enable said member to shear said central portion and remove a part thereof at the base of said member to permit discharge of the container contents without using an opening implement.

2,160,964
ADJUSTABLE SCARIFIER TOOTH
Joseph R. Godfrey, Concrete, Wash.
Application April 20, 1938, Serial No. 203,145
2 Claims. (Cl. 262—8)



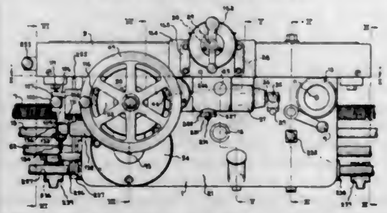
1. In an adjustable scarifier tooth, a supporting bracket arranged in upright position, a groove in one edge thereof, a scarifier tooth seated in said groove, said bracket having a plurality of vertically spaced openings, a guide secured to the bracket and bridging the groove for retaining the tooth therein, vertically spaced notches in one edge of the tooth and a pin removably inserted in said openings and engaging one of the notches to secure the tooth in vertically adjusted position.

2,160,965
ELECTRIC DRY SHAVER
George G. Going, Stamford, Conn., assignor, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application May 6, 1938, Serial No. 206,376
3 Claims. (Cl. 30—43)



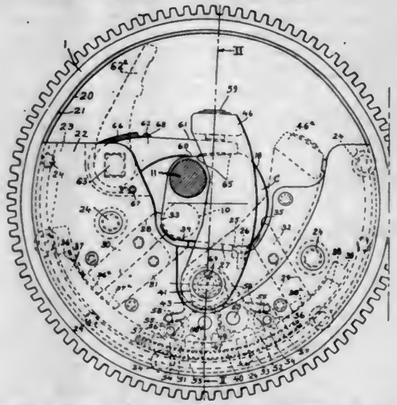
1. In a cutting head for a dry shaver, a U-shaped outer cutter having a raised central portion, diagonal slots cut in said raised portion and transverse slots cut in the corners of the remaining portion, said slots forming cutter bars, said transverse bars being adapted to cut long hair and said diagonal bars being adapted to cut short hair and an inner cutter of similar shape reciprocably mounted within said outer cutter.

2,160,966
LATHE APRON MECHANISM
William F. Groene and Harry C. Kemper, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application May 23, 1938, Serial No. 209,454
14 Claims. (Cl. 82—22)



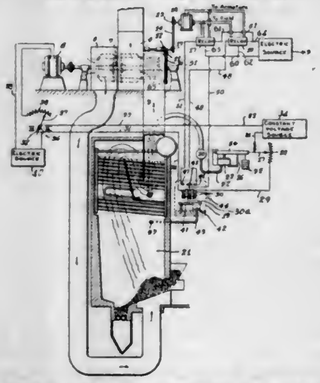
1. In a lathe, an apron, means in said apron for effecting rapid traverse movements in the carriage and cross slide in either direction, a single control lever on said apron for effecting all of said movements, said control lever comprising a handle mounted on a rock shaft and movable thereon in a horizontal plane to select traverse movements for either the carriage or cross slide and movable in a vertical plane to rotate said rock shaft to render said traverse movements operative, means connecting said rock shaft to said source of rapid traverse power comprising, a pair of rapid traverse clutch assemblies adapted to connect or disconnect rapid traverse power to or from said carriage or cross slide, a yoke for actuating one or the other of said clutches, and rack and pinion means interconnecting said yoke with said rock shaft.

2,160,967
CRANKSHAFT CHUCK
William F. Groene and Walter R. Meyer, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application June 7, 1938, Serial No. 212,326
18 Claims. (Cl. 82—40)



1. In a lathe, centers for supporting a crankshaft in centered position in said lathe, a pair of center drive ring gears located between said centers, chucking mechanisms in said ring gears adapted to engage rough irregular webs of said crankshaft to support said crankshaft in its precentered position, and means in one of said ring gears to positively drive said crankshaft.

2,160,968
FAN SYSTEM
Harold F. Hagen, Dedham, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application August 12, 1936, Serial No. 95,675
11 Claims. (Cl. 110—162)



1. A steam plant comprising in combination, a combustion chamber, a forced draft fan for forcing air into said chamber, a matched induced draft fan for drawing the exhaust gases from said chamber, a single shaft supporting the wheels of both of said fans, a motor for rotating said shaft, means for adjusting the speed of said motor in accordance with the load on said plant, spin inducing vanes in the inlet to said induced draft fan, and means for adjusting said vanes to

vary the suction of said induced draft fan in accordance with changes in the suction in said chamber.

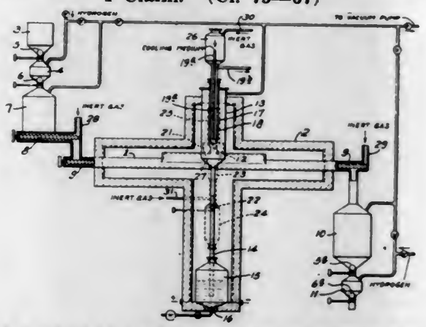
2,160,969

PROCESS OF PRODUCING PURE MAGNESIUM

Fritz Hansgirg, Radenthein, Austria, assignor to American Magnesium Metals Corporation, Pittsburgh, Pa., a corporation of Delaware

Original application February 3, 1933, Serial No. 655,067. Divided and this application November 20, 1934, Serial No. 753,890

1 Claim. (Cl. 75—67)



A method of treating magnesium powder which comprises subjecting said powder to a temperature above the melting point, maintaining said powder in a continuous state of agitation to subject the same to a rubbing action, the temperature and pressure being such as to cause vaporization of magnesium, removing the vapors and condensing the same.

2,160,970

INCLINOMETER FOR AIRCRAFT

Paul Eduard Koster, Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschrankter Haftung, Berlin, Germany, a corporation of Germany

Application April 5, 1937, Serial No. 135,130

In Germany April 6, 1936

10 Claims. (Cl. 33—204)



1. An indicating device for aircraft comprising a gyroscope mounted for motion about the lateral and longitudinal axes of the craft, a pointer carrying an airplane model responsive to the motion of said gyroscope upon pitch of the craft, a second pointer carrying two indicators disposed on opposite sides of said airplane model responsive to the relative motion of said gyroscope upon rolling of the craft about the longitudinal axis thereof, a liquid tube inclinometer vertically disposed with respect to said model and sensitive to pitch and climb of the craft, and a bank indicator disposed generally closely to and at right angles to said inclinometer, said inclinometer liquid level serving as a zero mark for said airplane model and indicators when the craft is in a horizontal position and said tube serving as a zero mark for said bank indicator.

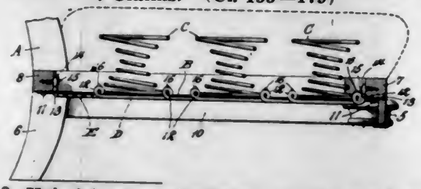
2,160,971

UPHOLSTERY CONSTRUCTION

Charles Edward Lenz, Jr., Baltimore, Md., and Rutledge A. Parker, Waterbury, Conn.

Application May 2, 1935, Serial No. 19,476

7 Claims. (Cl. 155—179)



3. Upholstery construction comprising a frame, a yieldable webbing secured along its marginal edges to said frame and normally disposed in a single flat plane, and a supporting rod directly attached at its ends to opposite walls of the frame, said rod being normally disposed in a plane parallel to the webbing and located directly under and in contact with said webbing, said rod being longitudinally yieldable whereby the rod will bow downwardly co-extensively with the webbing when weight is placed upon the latter, said rod being bent intermediate its attaching ends into a zig-zag shape to form a longitudinally yieldable portion, said zig-zag portion being flat and disposed in a plane parallel to the webbing.

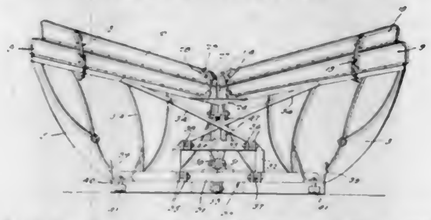
2,160,972

SNOW PLOW

Louis J. Litchy, Royalton, Minn.

Application July 15, 1937, Serial No. 153,839

2 Claims. (Cl. 37—44)



1. In a snow plow structure of the V type, a pair of rearwardly divergent moldboards, and means to connect said boards together comprising a lower rear cross bar extending laterally between said boards and having the ends thereof fixed to said boards, respectively, a frame of substantially rectangular form upstanding from said cross bar centrally thereof and parallel therewith, an upper connecting bar between the top of said frame and said boards extending horizontally in the longitudinal center of the structure, a pair of lower connecting bars between said cross bar and said boards, respectively, extending horizontally and parallel upon opposite sides of said center of the structure, respectively, and a pair of diagonal cross braces extending from opposite upper corners of said frame to said boards, respectively, and fixed to the latter adjacent the upper edges thereof.

2,160,973

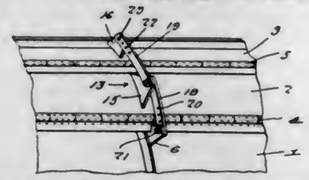
ADJUSTABLE FLAREBOARDS FOR A PLOW

Louis J. Litchy, Royalton, Minn.

Original application July 15, 1937, Serial No. 153,839. Divided and this application April 30, 1938, Serial No. 205,333

2 Claims. (Cl. 37—46)

1. In combination with a moldboard of a plow, a pair of flareboards hingedly connected together at their adjacent edges, means for hinging the lower edge of the lower flareboard to the upper edge of the moldboard and means for adjusting the flareboards on their hinges relative to one another and relative to the moldboard, such adjustment means including lugs on the rear faces



of the moldboard and the two flareboards, a pair of levers pivoted to the lug of the lower flareboard, means for adjustably connecting one lever to the lug of the top flareboard and means for adjustably connecting the other lever to the lug of the moldboard.

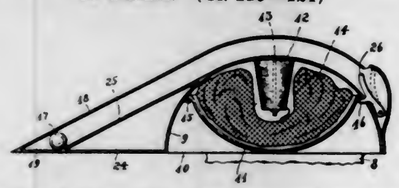
2,160,974

DISTRESS SIGNAL

Lawrence R. Lueck, El Monte, Calif.

Application February 8, 1937, Serial No. 124,662

10 Claims. (Cl. 116—124)



1. In a device of the class described, an indicator in form of a balloon containing buoyancy means in sufficient quantities to lift the indicator into the air, a casing of a form to hold the filled indicator in a compressed condition so as to create the tendency that the indicator will expand to such an extent as to discharge from the casing on being freed from the casing, and connecting means whereby the indicator is attached to any structure such as an aircraft.

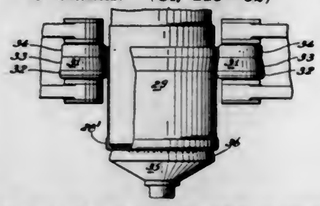
2,160,975

METHOD AND APPARATUS FOR FORMING METALLIC RECEPTACLES

James K. Matter, La Grange, Ill., and Gustave J. Horak, New Kensington, Pa., assignors to The Aluminum Cooking Utensil Company, New Kensington, Pa., a corporation of Pennsylvania

Application December 28, 1935, Serial No. 56,464

8 Claims. (Cl. 113—52)



1. A method of forming a metallic receptacle, which method comprises providing a cup-shaped blank having a bottom and side wall of relatively heavy gauge, spinning the central portion of said side wall to cause the metal therein to flow in the direction of the open end of said blank, and subsequently forming a chime around said bottom by spinning the lower edge of said side wall past said bottom in a reverse direction.

7. Apparatus for forming a metallic receptacle from a cup-shaped metal blank having a bottom and side wall of relatively heavy gauge, comprising in combination a rotary mandrel for supporting said blank, a plurality of reducing rolls movable along said mandrel in contact with said blank, said reducing rolls having their axes parallel with the axis of rotation of said mandrel and being tapered over a greater portion of their length and cylindrical for the remainder thereof, common adjusting means to move said rolls to radially fixed positions with respect to said mandrel and means to move said rolls along said mandrel, whereby the side wall of said blank is elongated and reduced in thickness by the tapered portions of said rolls and simultaneously smoothed by the cylindrical portions of said rolls.

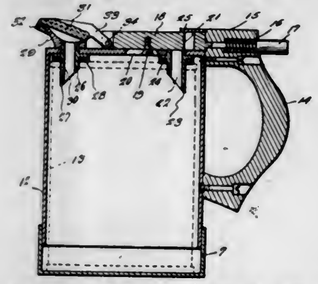
2,160,976

CAN HOLDING AND LIQUID DISPENSING DEVICE

John Mirati, Pittsburg, Calif.

Application June 22, 1937, Serial No. 149,699

2 Claims. (Cl. 65—61)



1. In a structural assemblage of the class described, a relatively shallow cup for reception of a conventional evaporated milk can, said cup being provided on its rim with diametrically opposite upstanding toothed latches, a cylindrical open bottom cover unit adapted to hood over the can, said cover fitting telescopically at its bottom into said cup, a handle on the cover, keeper brackets on the cover unit with which the latches releasably engage, the top portion of said cover unit being provided with depending nipples designed to penetrate the top of the milk can, one nipple constituting a vent, the other nipple functioning as a liquid outlet, the last named nipple being provided with a pouring spout, a closing lid for said pouring spout, a plunger slidably mounted on said top portion, an arm projecting from said lid and pivotally connected to said plunger, the pivotally connected end of the arm being engageable with an adjacent edge portion of the spout to raise and swing the lid to open position when the plunger is slid in a direction toward the spout, said plunger having an aperture selectively registerable with said venting nipple.

2,160,977

WRENCH

Harry W. Michalka, Rice Lake, Wis.

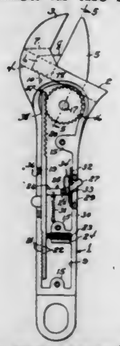
Application July 26, 1937, Serial No. 155,787

Renewed January 9, 1939

6 Claims. (Cl. 81—130)

1. In a wrench, a handle, a stationary jaw on the handle, a movable jaw fitting said handle and slidable crosswise thereof toward and away from

the stationary jaw, a rack slidably fitted in the handle and susceptible of side motion, a pinion rotatably fitting the handle and in toothed engagement with the movable jaw and said rack, latching teeth formed in the handle and on the



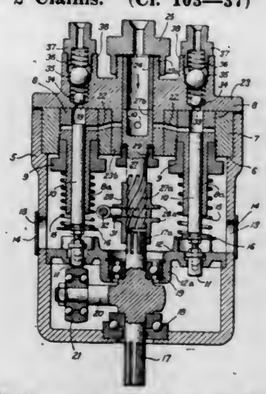
rack for separable engagement with each other on side swing of said rack, means within the handle for urging the teeth on the rack toward the teeth in the handle, and a locking trigger fitting the handle and engaging the rack for holding it in a latching position.

2,160,978

FUEL PUMP

Frank C. Mock, Montclair, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application December 17, 1935, Serial No. 54,894
2 Claims. (Cl. 103—37)



1. In a fluid pump, a body, a plurality of parallel cylinders therein arranged about a central drive shaft, a piston in each of said cylinders, a cam on said drive shaft arranged to actuate said pistons in sequence, said cylinders having discharge ports and inwardly extending inlet ports, said pistons being movable to close said intake ports after a predetermined movement, a hollow sleeve valve coaxial with the drive shaft having a portion forming a shaft, said valve shaft and said driving shaft being aligned, one of said shafts having helical threads on its outer surface and the other shaft having straight splines, a slidable sleeve encircling the adjacent ends of both shafts and cooperating with the threads and splines for changing the angular relation between the shafts, means for preventing axial movement of each of said shafts, said sleeve valve having a port in its side wall adapted to align with each intake port in sequence, and means for introducing fluid to the interior of said valve whereby the fluid is distributed to the cylinders.

2,160,979

KNIFE REST FOR SHARPENING KNIVES

Morten Vilhelm Moeller, deceased, late of Copenhagen, Denmark, by Else Moeller, née Knupfer, legal representative, Rohr, near Stuttgart, Germany, assignor to Victor Friedrich, Berlin-Tempelhof, Germany

Application December 30, 1935, Serial No. 56,744
In Denmark January 4, 1935
3 Claims. (Cl. 51—214)



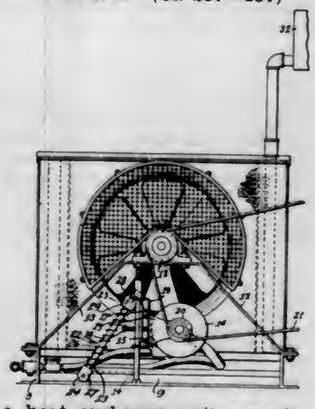
1. In a knife sharpener, an elongated block having a flat bottom adapted to be pressed and securely held on a support, a grind stone fixed on the front face of said block and having a concaved surface, an extension on the front side of said block having an elongated groove extending substantially parallel to the outer surface of said grind stone and adapted to hold the back of a knife to be sharpened, said surface of the grind stone adapted to guide at the correct grinding angle the cutting edge of the knife to be sharpened, a portion of the block carrying the grind stone being oscillatably mounted on a horizontal axle to adjust the outer surface of the grind-stone at different angles to the guide groove to vary the adjustment of the grinding angle.

2,160,980

ENGINE COOLING SYSTEM

Harry E. Morton, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.

Application July 8, 1937, Serial No. 152,562
5 Claims. (Cl. 257—137)



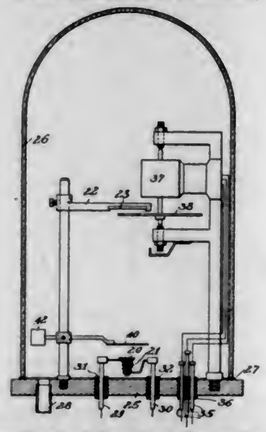
1. In a heat exchange unit assembly having tubes, a pump connected with said tubes for circulating a heat exchange fluid therethrough, and a fan for moving air over the tubes, the combination of a rectangular structural base, a pair of upwardly extending leg members attached at their lower ends to said base, a substantially horizontal member attached to the upper ends of said leg members and supported thereby, a plurality of rods extending substantially vertically between said leg members, and having their lower ends attached to said base and their upper ends attached to said horizontal member, said pump having a pulley adapted to serve as an idler for the belt driving said fan, a support for said pump, and means for adjustably positioning said support along said rods.

2,160,981

METHOD AND APPARATUS FOR PRODUCING THIN WEDGES

Brian O'Brien, Rochester, N. Y.

Application October 19, 1935, Serial No. 45,802
11 Claims. (Cl. 91—12.2)



1. The method of forming deposits of vaporizable material of graduated thickness, which comprises providing a support to receive the material, distilling the material in the vicinity of said support so that vapors of the material will tend to travel in substantially straight lines toward and to accumulate on said support, and repeatedly blocking and unblocking the path of travel of the vapors towards said support during the distilling operation, leaving one portion of the area of the support unblocked for a longer time than another portion thereof, to produce differences in thicknesses of material on different parts of said support.

2,160,982

DOLL EYE

Nunzio Paganello, Brooklyn, N. Y., assignor to Salvator Paganello, New York, N. Y.

Application April 30, 1938, Serial No. 205,222
5 Claims. (Cl. 46—169)



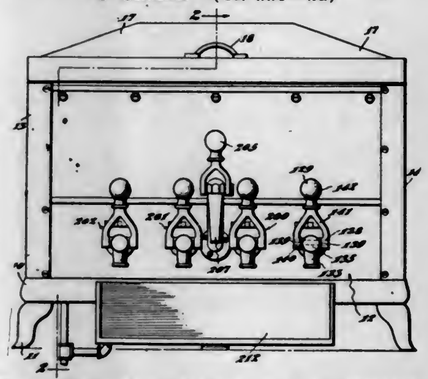
1. A doll's eye constituted of a dome-shaped metal eye member having on at least one side thereof a portion of the edge thereof pressed inwardly to form a wall within the dome, a perforation in said wall and a relatively narrow slot extending from the perforation through the edge of the wall to provide narrow gripping elements adapted for cooperation with a supporting bar to hold the eye on such bar in any adjusted position of the eye with respect to the bar.

2,160,983

MIXING AND DISPENSING APPARATUS

Harry K. Painter, Mansfield, Ohio, assignor to The Bock Machine Company, Cincinnati, Ohio, a corporation of Ohio

Original application January 6, 1933, Serial No. 650,449. Divided and this application November 21, 1935, Serial No. 50,893
3 Claims. (Cl. 225—21)



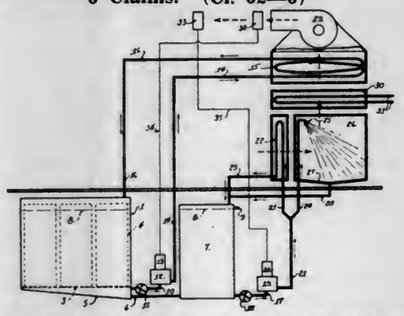
1. A dispensing apparatus for carbonated beverages comprising a first container for receiving a supply of carbonated water, a second container containing a supply of flavoring syrup, a delivery tube extending from the first container and having a spout at its outer end, a syrup measuring cylinder disposed between the second container and an intermediate portion of the tube and in communication with the second container and tube respectively, a piston in the syrup measuring cylinder, a valve at the entrance from the first container to the tube, a common means for moving said piston and unseating said valve, said cylinder including a spring-seated valve at the entrance thereto from the second container, said valve arranged to unseat when the piston is moved in its delivery stroke, a second spring-seated valve disposed between the cylinder and the tube arranged to unseat to delivery pressure, and a third valve within the piston arranged to unseat on return stroke of the piston for permitting the charge of flavoring syrup drawn into the cylinder on the delivery stroke to pass through the piston to the delivery side thereof.

2,160,984

AIR CONDITIONING SYSTEM

Norman Passur, Oakland, Calif.

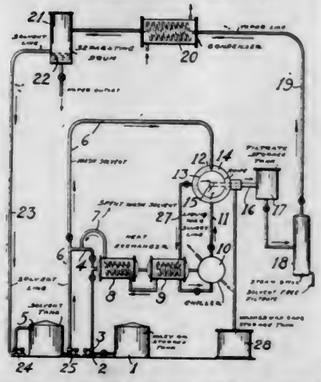
Application October 25, 1937, Serial No. 170,817
6 Claims. (Cl. 62—6)



1. In an air conditioning system, a tank con-

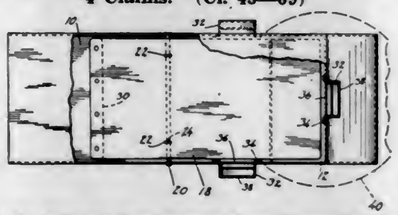
taining both ice and water, a second tank containing water, means for supplying the second tank with water from the first tank, an absorber connected with the first tank, a second absorber connected with the second tank, means for circulating the water from said tanks independently through their respective absorbers and returning it independently to said tanks, and means for passing the air to be conditioned over said absorbers.

2,160,985
SOLVENT DEWAXING PROCESS
Oldrich S. Pokorny, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware
Application February 3, 1937, Serial No. 123,760
10 Claims. (Cl. 196—18)



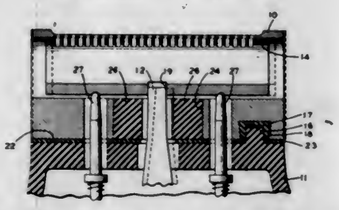
1. Process of dewaxing mineral oil which comprises diluting the oil with a solvent consisting essentially of an aliphatic normal ketone selected from the class having 5 or 6 carbon atems in the molecule and containing an aliphatic group of at least three carbon atoms, chilling the mixture to a temperature at which wax is caused to precipitate, removing the wax, and recovering dewaxed oil from the filtrate.

2,160,986
ANIMAL TRAP
John Rafferty and Thomas Cowperthwaite, Detroit, Mich.
Application December 2, 1937, Serial No. 177,766
4 Claims. (Cl. 43—69)



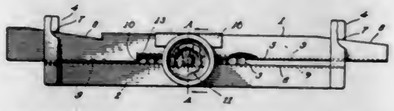
1. An animal trap comprising, in combination, an enclosure of general L-shaped construction having a horizontally extending entrance passageway along one section of the L-shaped construction and a vertically extending discharge passageway along the other section of the construction opening at its top end into the horizontal passageway, said horizontal passageway having a height not substantially greater than the height of an average rat, a trap door member hinged intermediate its length near to the bottom of the enclosure adjacent to the junction of the two passageways having one end superimposing the floor of the horizontal passageway and the other end overhanging the vertical passageway, said member arranged to swing in an arc from a substantially horizontal position substantially on a level with the floor of the horizontal passageway to an inclined position closing the horizontal passageway and opening downwardly into the vertical passageway so that an animal advancing over the member causes the member to swing to its downwardly inclined position after the major portion of the weight of the animal has passed the hinge, the top of the horizontal passageway forwardly of the hinge provided with an angular upwardly projecting portion adapted to receive that end portion of the trap door which is forwardly of its hinge when such door is swung to an inclined position.

2,160,987
MECHANICAL RAZOR
James H. Rand, Jr., Stamford, and Albert M. Ross, Greenwich, Conn., assignors to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 1, 1938, Serial No. 238,126
4 Claims. (Cl. 30—43)



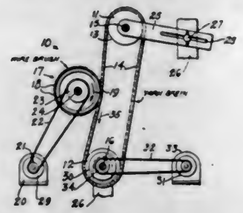
1. In a mechanical razor, a handle, a shear plate mounted for longitudinal movement on said handle, an inner cutter cooperating with said shear plate, an arm for reciprocating said inner cutter, and resilient means in the base of said shear plate compressed by said arm for reciprocating said plate longitudinally of said handle.

2,160,988
HOLDING INSTRUMENT
Lester H. Reineke, New Haven, Conn.; dedicated to the free use of the People of the United States
Application October 15, 1936, Serial No. 105,800
4 Claims. (Cl. 88—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



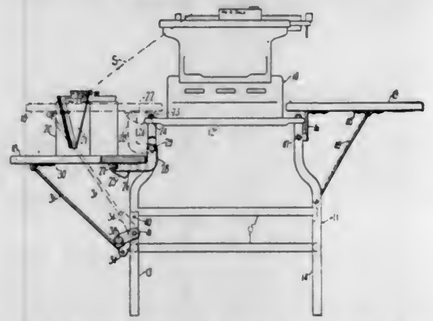
1. A device of the character described comprising a pair of flat plates positioned longitudinally parallel and adjacent to each other, edge to edge, in the same plane, the plates having coextensive grooves along said adjacent edges adapted to receive an increment core, such core being held by the edges of the plates, means to maintain the plates adjustably in such plane and means to control the separating movement of the plates from each other.

2,160,989
PROCESS OF TREATING YARNS AND FABRICS MADE THEREFROM
Harry Rubinstein, Brooklyn, N. Y.
Application November 5, 1938, Serial No. 238,984
12 Claims. (Cl. 28—1)



1. The herein described method including longitudinally wire-brushing a batch of yarn to raise a nap thereon, with the wire bristles being at an acute angle to the yarn batch to wipingly penetrate the latter and separate the yarns thereof.

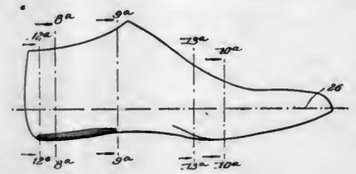
2,160,990
BOOKKEEPING MACHINE STAND
Walter T. Sagner, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application September 11, 1937, Serial No. 163,445
5 Claims. (Cl. 45—90)



1. A business machine stand including a shelf supported for selective elevational positions thereto, means engaging a margin of the shelf to selectively fix the elevation thereof relative to the stand, and an extensible brace variably supporting the projected portion of the shelf on the stand whereby to level same at the desired elevation.

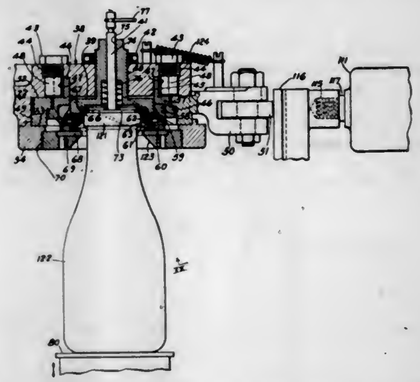
2,160,991
SHOE CONSTRUCTION AND LAST
Russell Plato Schwartz, Rochester, N. Y.
Application May 12, 1937, Serial No. 142,215
4 Claims. (Cl. 36—8.5)

1. A shoe having an upper heel surface substantially as high at its rear as at its forward end, a forefoot portion and a shank portion extending from the forward end of said heel surface forwardly and downwardly and merging into said forefoot portion, said heel surface and shank portion being inclined from the inner edges thereof downwardly toward the outer edges thereof to compensate for the malalinement of the bones of the leg and angle and support the weight against inward pronation and lowering of the medial longitudinal arch, said forefoot portion of the shoe being substantially horizontal in a transverse direction, whereby the weight of the body is applied progressively forwardly along the outer sides of the heel and midfoot portions of the shoe and then medially across said



forefoot portion to the region of the great toe, first in the cuboid and then in the scaphoid stream, to maintain normal functional equilibrium and propulsion of the weight of the body in stance and gait.

2,160,992
PACKAGING MECHANISM
John Wayne Thomas, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 18, 1936, Serial No. 85,957
25 Claims. (Cl. 226—85)

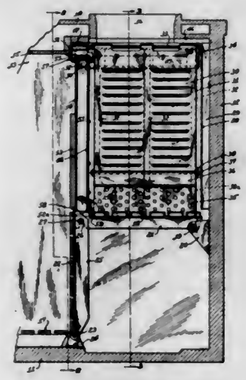


1. A mechanism of the class described, comprising a sealing head provided with means adapted to be radially contracted to conform a closure skirt with a receptacle finish, horizontal oscillatable means for applying substantially uniform radial pressure to said first-mentioned means to contract the same, and adjustable means in cooperation with said horizontal oscillatable means adapted to control and insure a predetermined contracting pressure in said sealing head.

2,160,993
COLLAPSIBLE ICE BUNKER
Gustav P. Torburn, Oakland, Calif., assignor of one-half to Loyd E. Cartmill, Palo Alto, Calif.
Application April 2, 1938, Serial No. 199,650
15 Claims. (Cl. 62—19)

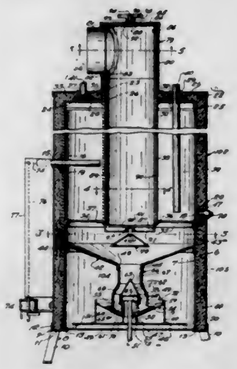
1. In a refrigerator car having an ice bunker at one end, a transverse bulkhead separating said ice bunker from the remainder of the car, said bulkhead having an upper section movable to a position parallel with and adjacent to the end wall of the car and a lower section movable to a substantially horizontal position adjacent the

floor, and an ice supporting grate in said bunker, said grate being movable to a position adjacent



said end wall in vertical alignment with the moved upper bulkhead section.

2,160,994
HOT WATER HEATER
George W. Whitehurst, Portsmouth, Va.
Application October 20, 1937, Serial No. 170,080
9 Claims. (Cl. 122—17)



6. In a hot water heater of that type including a burner, a water tank, a heat conducting flue extending through the water tank, a fire tube leading upwardly from said burner towards said flue and a heat receiving chamber arranged between and communicating with said tube and flue, the combination of an upstanding revoluble scraper for removing soot from the inner face of the flue for consumption in said chamber, said scraper being of greater length than the flue for acting on the inner face of the flue from its upper to its lower end, and a deflector for the removed soot suspended from the lower end of the scraper over and in aligned spaced relation with respect to the upper end of the fire tube and acting to prevent the scraped-off soot as it falls from the flue from entering the upper end of the tube.

2,160,995
PLASTICIZED SYNTHETIC RUBBER COMPOSITION
Peter J. Wiezevich, Elizabeth, N. J., now by judicial change of name to Peter J. Gaylor, assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 18, 1936, Serial No. 116,483
1 Claim. (Cl. 260—42)

An oxidation stable and acid resisting, non-tacky plastic composition comprising a polyethylene sulfide type plastic and polymerized isobutylene having an average molecular weight of above 800 as determined by the viscosity method.

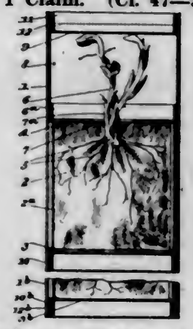
2,160,996
PLASTICIZED SYNTHETIC RUBBER COMPOSITION
Peter J. Wiezevich, Elizabeth, N. J., now by judicial change of name to Peter J. Gaylor, assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 18, 1936, Serial No. 116,484
2 Claims. (Cl. 260—42)

1. A composition of matter comprising a clear, soft, flexible, oxidation-stable homogeneous moldable composition comprising a vinyl polymer of the class consisting of normally hard polymerized vinyl chloride and vinyl acetate intimately mixed with polymerized isobutylene having an average molecular weight of above 800 as determined by the viscosity method.

2,160,997
PLASTICIZED SYNTHETIC RUBBER COMPOSITION
Peter J. Wiezevich, Elizabeth, N. J., now by judicial change of name Peter J. Gaylor, assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 18, 1936, Serial No. 116,485
1 Claim. (Cl. 260—42)

An oxidation stable and acid resistant homogeneous moldable composition comprising polymerized chloroprene intimately mixed with polymerized isobutylene having an average molecular weight of above 800 as determined by the viscosity method.

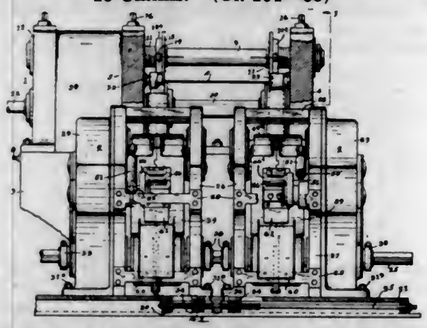
2,160,998
PLANT PACKAGE
Clarence E. Wilson, Manchester, Conn.
Application May 21, 1936, Serial No. 81,074
1 Claim. (Cl. 47—37)



A plant package comprising a shell, a bottom

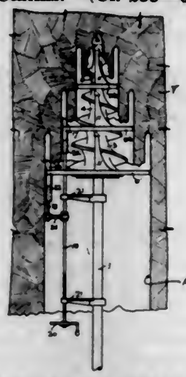
fixed in one end of the shell, a top inserted in the shell and having an opening, a liner interposed between the bottom and top, said liner being corrugated so that the flutes provide an ample rest for the top, and a stop ring inserted in the shell, pressing on the margin of the top and being situated within the confines of the liner-flutes.

2,160,999
TRIMMING AND/OR CUTTING MECHANISM
Carl M. Yoder, Lakewood, Ohio
Application March 25, 1935, Serial No. 12,818
18 Claims. (Cl. 164—68)



1. In apparatus of the class described, the combination with a support and means for supplying and feeding sheet material, of spaced standards, bearing boxes on said standards, sleeves mounted in the bearing boxes on one of said standards, a pair of shafts mounted at one end in and slidably keyed to said sleeves and at their opposite end in the bearing boxes on the other standard, the inner ends of said sleeves being provided with external screw threads, sets of related devices, each threaded on one of said sleeves for adjustment axially thereof, for trimming off the opposite marginal edges of the material, and means for driving said shafts.

2,161,000
DRILL HEAD
James A. Andersen, Walla Walla, Wash.
Application July 23, 1937, Serial No. 155,244
4 Claims. (Cl. 255—61)



1. The combination in a rotary drill-head with a drill-shaft angular in cross section and an end drill-bit rigid with the shaft, of a pair of helical augur-sections having complementary bores and mounted on the shaft, a cutter holder having an angular hub mounted on the shaft and interposed between said augur-sections, and an annular series of cutters mounted on said holder concentric with and exterior of said augur-sections.

2,161,001
SHIELD FOR REGISTERS
Harry A. Bedol, Cleveland, Ohio
Application February 2, 1937, Serial No. 123,570
8 Claims. (Cl. 98—103)



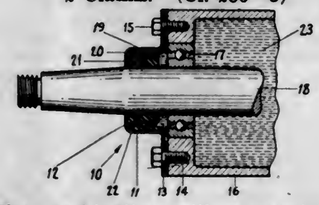
3. In apparatus of the character described, a shield member adapted to deflect warm air rising from a register, a resilient member constructed and arranged to be removably engaged within said shield member and means associated with said resilient member for retaining a liquid receptacle in the path of the air rising from said register, said resilient member engaging said shield independently of said receptacle.

2,161,002
FEEDING HEAD FOR RECIPROCATING OR SHAKER CONVEYERS
Ernst R. Bergmann, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 10, 1937, Serial No. 173,746
15 Claims. (Cl. 198—220)



1. In a feeding mechanism for shaker conveyers, a reciprocating trough section, an extensible trough section, feeding means for extending or retracting said extensible trough section with respect to said reciprocating trough section, and other means controlled by said feeding means for positively engaging the ground and holding said extensible trough section from backward slipping movement with respect to said reciprocating trough section.

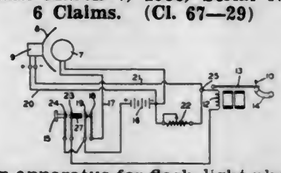
2,161,003
COMPOSITE LUBRICATION SEAL
Aaron R. Berman, Brooklyn, N. Y.
Application April 12, 1937, Serial No. 136,396
Renewed November 1, 1938
2 Claims. (Cl. 286—5)



1. The combination with a revoluble shaft passing through the wall of a casing, of a fluid sealing device therefor, a shell plate having a

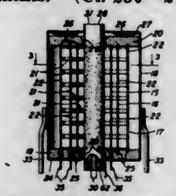
cylindrical cavity co-axial with the shaft and provided with a radial flange secured to the casing, an annular resilient compound sealing element of synthetic rubber conforming to and bonded adhesively to the inner surface of said shell plate, said cylindrical portion merging into a reversely turned flexible resilient flange spaced from the inner surface of said cylindrical portion and surroundingly hugging and wiping against the surface of said shaft, said flexible resilient flange being of greater thickness than that portion of the sealing element which engages the inner surface of the cavity, and being of smaller diameter at its free end than the shaft and due to said greater thickness a deformity of the flange takes place when fitting said sealing element over the shaft thereby causing the resilient flange to huggingly wipe against the shaft setting up a breathing action and preventing escape of the fluid, said deformed portion of the resilient flange extending toward the fluid in said casing and tending toward a torsional action with the shaft to prevent the fluid escaping from said casing.

2,161,004
PHOTOGRAPHIC DEVICE
Harry M. Biele, Hollis, N. Y.
Application March 7, 1936, Serial No. 67,697
6 Claims. (Cl. 67—29)



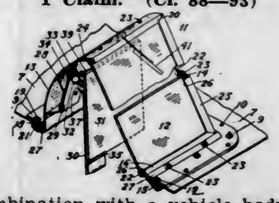
6. In an apparatus for flash-light photography, the combination comprising a camera shutter, an electromagnetic shutter motor, light-flash-producing means, a light sensitive cell positioned to receive light from said means, a circuit including a current source, and control means, when actuated, for sequentially connecting said electromagnetic shutter motor to said circuit to partially energize it and connect said light-flash-producing means to said circuit to operate it, the operation of the light-flash-producing means causing the light sensitive cell to complete the energization of said shutter motor to operate said shutter.

2,161,005
ELECTRON DISCHARGE DEVICE
Carl A. Bieling, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 4, 1937, Serial No. 162,418
7 Claims. (Cl. 250—27.5)



7. In an electron discharge device, an electrode assembly comprising a cylindrical anode having inwardly extending flanges at its ends, an insulating disc within said anode and seated upon one of said flanges, said disc having a plurality of concentric annular V-shaped grooves therein, a plurality of coaxial tubular grids having one end seated in said grooves, a second insulating disc slidably fitted in said anode and engaging the other end of said grids, said second insulating disc having concentric, annular, V-shaped grooves for receiving the other end of said electrodes, and an annular resilient member between and engaging said second disc and the other flange on said anode.

2,161,006
CABSCOPE
Edward Carl Bixel, West Orange, and Howard D. Brown, Westfield, N. J., assignors to American Telephone and Telegraph Company, a corporation of New York
Application November 20, 1937, Serial No. 175,712
1 Claim. (Cl. 88—93)



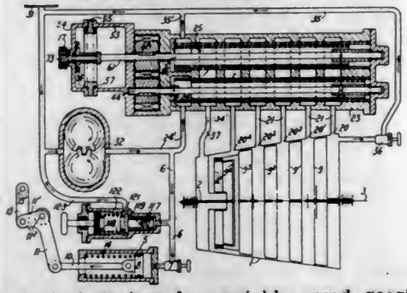
In combination with a vehicle body having a roofed cab and an opening therethrough, a housing covering the opening and having an upper portion projecting well above the top surface of the cab roof and including a front arcuate-shaped supporting partition, a steeply inclined rear transparent partition having a top edge connected to and forming an apex with a like edge of the front partition and side walls connecting said partitions, and a mirror adjustably mounted for universal movement on the front supporting partition, said transparent partition being arranged at such an angle with respect to the horizontal as to permit a wide range of vision therethrough above and to the rear of the cab, and said mirror normally lying in a plane in substantially vertical alinement with said apex and being mounted in such close proximity to said transparent partition that approximately vertical light rays passing through said transparent partition will strike the mirror so that when properly adjusted it will reflect toward the driver a view from above and to the rear of the cab thereby enabling the driver to observe operations carried on above and also to the rear of his position.

2,161,007
DOOR LATCH FOR AUTOMOBILES
Chauncy Roy Bixler, Kansas City, Kans.
Application April 2, 1937, Serial No. 134,571
10 Claims. (Cl. 292—340)



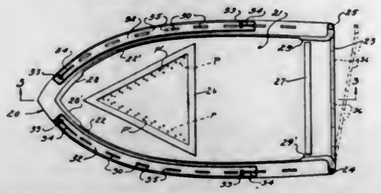
1. In a latch for an automobile including a door and a door post, a keeper bolt carried for reciprocation by said door; a keeper lever carried by said door post adapted to engage said keeper bolt and draw the bolt and door to the completely closed position; and manually controlled means associated with said keeper lever whereby the same is operated to cause said door to be moved from a partially closed position to a completely closed position.

2,161,008
CONTROL DEVICE FOR VARIABLE SPEED GEARING
Carl Robert Hugo Bonn, Glasgow, Scotland
Application June 10, 1937, Serial No. 147,551
In Great Britain June 13, 1936
13 Claims. (Cl. 74—262)



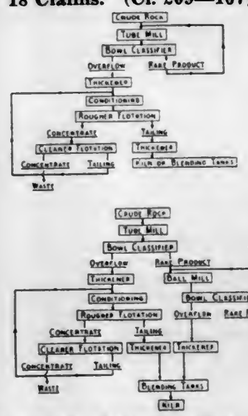
1. Control devices for variable speed gearing including a plurality of epicyclic gear trains interconnecting a driving shaft and a driven shaft, a casing mounted for rotation and enclosing said gear trains, cooperative brake components presented respectively by said casing and by the planet carrier of each epicyclic gear train, the said planet carriers being selectively movable axially to effect contact of the brake components carried thereby with the cooperative brake component presented by the casing, means for effecting axial movement of said planet carriers, means presenting a yielding resistance to the rotary movement of the casing, and means operated by the rotary movement of the casing against the said resistance for effecting selection of the planet carrier to be moved axially.

2,161,009
FABRIC PROTECTING SHOE FOR STEAM IRONS
Peter H. Brave, Los Angeles, Calif.
Application January 30, 1937, Serial No. 123,247
5 Claims. (Cl. 38—97)



1. For use in combination with a steam iron having steam discharging perforations in its bottom, an ironing plate adapted to be disposed under and parallel to the bottom of the iron, a restricted area of said plate having perforations to permit the discharge of steam onto an article being ironed, means for spacing the plate and iron apart to provide an air space therebetween and for confining the flow of steam from perforations in the bottom of the iron to the perforated area of the plate, said means comprising a raised portion of the plate upon which the bottom of the iron rests and which surrounds the perforated area of the plate, said plate having a flanged portion which engages the sides of the iron to detachably secure the plate to the iron, and slots in the flanged portion for admitting air to the air space between the iron and plate.

2,161,010
MANUFACTURE OF CEMENT
Charles H. Breerwood, Narberth, and John C. Williams, Catasauqua, Pa., assignors to Separation Process Company, a corporation of Delaware
Application September 10, 1937, Serial No. 163,304
18 Claims. (Cl. 209—167)

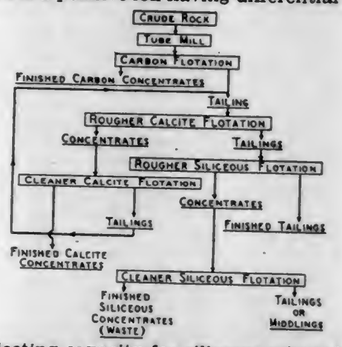


1. In the method of beneficiating, for the preparation of an ultimate cement raw material mixture, inferior cement raw materials containing at least two of the constituents essential to an ultimate cement raw material mixture and including an amount of at least one siliceous mineral in excess of that desired in the ultimate mixture, to reduce the percentage of said siliceous mineral; the improvement which comprises subjecting a pulp of the ground material to froth flotation in the presence of an amount of a reagent, the surface-active portion of which is a positive ion having selective collecting capacity for the constituents of the naturally occurring raw materials including said siliceous mineral, sufficient to collect the excess proportion of said siliceous mineral, but insufficient in amount to collect all of the normally floatable portion of said siliceous constituent, to concentrate a minimum of the weight of said material in the froth, whereby the excess of said siliceous mineral is carried off in the froth.

2,161,011
MANUFACTURE OF CEMENT
Charles H. Breerwood, Narberth, and John C. Williams, Catasauqua, Pa., assignors to Separation Process Company, a corporation of Delaware
Application September 10, 1937, Serial No. 163,305
6 Claims. (Cl. 209—167)

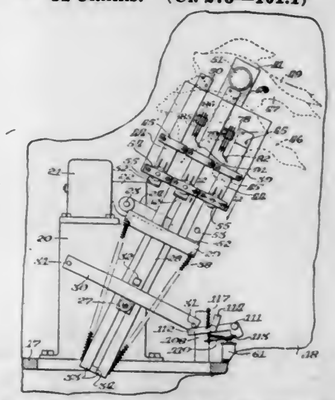
1. In a method of beneficiating, for the preparation of an ultimate cement raw material mixture, inferior cement raw materials of the class of argillaceous limestones, marls and chalks, including an amount of at least one siliceous mineral in excess of that desired in the ultimate mixture, to reduce the percentage of said siliceous

mineral; the improvement which comprises subjecting a pulp of the ground material to froth flotation in the presence of an amount of an anionic calcite collecting reagent, sufficient to concentrate at least the finer particles of the calcite, subjecting a pulp of the tailings of calcite flotation to froth flotation in the presence of an amount of a reagent, the surface-active portion of which is a positive ion having differential selec-



tive collecting capacity for siliceous minerals and calcite of the naturally occurring raw materials, sufficient to collect said excess of siliceous mineral, but insufficient in amount to collect all of the normally floatable portion of the siliceous constituents, to concentrate a minimum of the weight of said pulp in the froth, whereby the excess of siliceous mineral is carried off in said froth and the proportion of calcite is increased in the remaining materials.

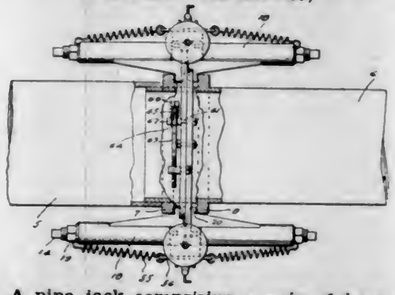
2,161,012
SHOOTING-GALLERY GAME
Charles J. Breitenstein and Donald E. Hooker, Chicago, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Application January 5, 1937, Serial No. 119,118
31 Claims. (Cl. 273—101.1)



14. In a target apparatus, a swingable support, means to carry and swing the support in an orbital path, a plate rigid on the support, a plurality of target carriers mounted in parallel spacing on the plate for sliding movement relative thereto, each carrier carrying a target, said targets disposed in parallel vertical planes and side by side in spaced apart relation with said targets each formed with an opening, said openings normally being in registration, means to latch the carriers releasably against such relative movement, a photo-electric cell carried on the plate behind and in line with the normal positions of the target openings, electrical means operable by the cell when rays of light are passed through the target openings to cause the carriers to be released for dropping movement, and switch means on the plate controllable by the dropping carriers to regulate dropping of the carriers successively.

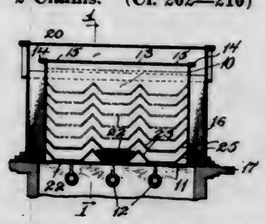
18. In combination, a target apparatus comprising a support, an arm hingedly connected to said support, a bracket carried on the arm for hinging movement with the arm as well as for slidable relative movement with respect thereto, a target mounted on the bracket, and means for swinging the arm for hinging movement, and sliding the bracket to move the target in an orbital path.

2,161,013
PIPE JACK
Paul Breza, Chesapeake City, Md.
Application February 28, 1938, Serial No. 193,202
12 Claims. (Cl. 254—29)



1. A pipe jack comprising a pair of jaws arranged for opposite movement and adapted to engage a pair of pipe sections, fluid pressure means for expanding the jaws, spring means for contracting the jaws and valves selectively controlling the fluid pressure during the expanding and contracting movement of the jaws.

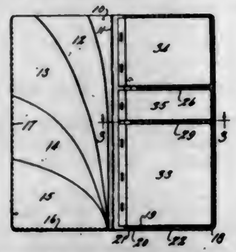
2,161,014
OVEN FOR MAKING ARTISTS' CHARCOAL
William Brown, Irvington, N. J.
Application June 4, 1937, Serial No. 146,372
2 Claims. (Cl. 202—210)



1. An oven for making artists' charcoal pencils comprising an inner casing closed except for vents for escape of by-products, an outer casing enclosing the inner casing and spaced therefrom, a combined heat control and smoke pipe at the top of said outer casing, a heating plate forming a bottom common to both casings and trays, each tray having a flat bottom portion and outwardly inclined side edges and having upwardly projecting ridges arranged longitudinally, said trays being adapted for stacking within the inner cas-

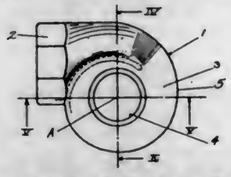
ing, each of the spaces between said sides and between ridges being of a size to receive tiers of assembled sticks, which sticks act to support the bottom of the next tray above.

2,161,015
MEMORANDUM BOOK
Warner R. Buxton, Longmeadow, Mass.
Application March 19, 1937, Serial No. 131,801
5 Claims. (Cl. 281—17)



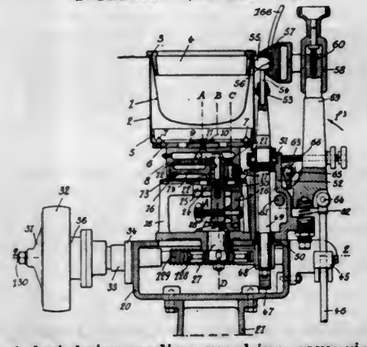
1. A memorandum book of the refill type, adapted to receive a plurality of combinations of memorandum pads of varying widths which comprises, front and back cover members, a plurality of overlying pad retaining members secured at their ends to one of said cover members, each retaining member being secured to the adjacent underlying retaining member along spaced lines to provide a plurality of superposed series of sockets for the reception of tongues secured to the back of the filler pads, the width of the so formed sockets of each series being equal and the socket width of each succeeding series being greater than and a multiple of the socket width of the outermost series, said sockets each having a closed end adapted to be engaged by one end of a tongue, and the closed ends of all the sockets being alined, whereby pads when inserted in said sockets with their tongues abutting said closed ends will be alined.

2,161,016
SPRAY NOZZLE
Clifford H. Carr, Kansas City, Mo.
Application June 11, 1936, Serial No. 84,715
3 Claims. (Cl. 299—114)



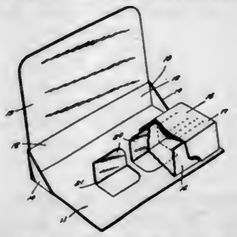
1. A spray nozzle of the type described, comprising a whirl chamber having an outer wall in the form of a re-entrant curve and parallel end walls, an inlet passage merging into said chamber substantially tangent to said outer wall, the axis of said inlet being substantially parallel to the planes of said end walls and the distance between said end walls being at least no greater than the width of the throat of said inlet and substantially less than the mouth of said inlet, the area of the passage formed by the re-entrant outer wall and said side walls being continuously diminished from the mouth of said inlet to the throat of said inlet, and an outlet orifice in one of said end walls, the axis of which is disposed transversely of said inlet and between the mouth and throat thereof.

2,161,017
HAT BRIM CURLING MACHINE
Marcel Cassé, Essonnes, France
Application January 3, 1938, Serial No. 183,192
In France February 17, 1937
4 Claims. (Cl. 223—14)



1. A hat brim curling machine comprising in combination a rotary curling wheel and a curling iron between which the edge of the hat brim to be curled is adapted to be passed, a movable supporting member adapted to support the hat with the crown positioned below the brim means for rotating said curling wheel, said means being located entirely below that surface of the supporting member contacted by the hat brim and a mechanism located below said supporting member for driving said supporting member to feed the edge of the hat brim past said curling iron.

2,161,018
SHIPPING AND DISPLAY CONTAINER
John A. Clemens, Providence, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Application October 21, 1936, Serial No. 106,735
3 Claims. (Cl. 206—44)

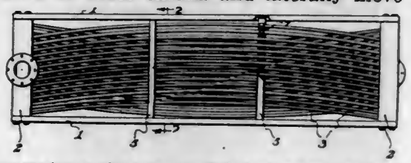


1. In a shipping and display container, a base, a back extending from one edge thereof, a cover extending from the back edge opposite said first edge, tab means on said base adapted to releasably engage a merchandise box, said container having an open front and substantially open sides, tab means extending from each side of said base and connected to each other at the rear of said back, whereby said back is supported against rearward movement, and rearwardly positioned side portions connecting said base and said tab means.

2,161,019
HEAT EXCHANGER
Joseph A. Coy, Tulsa, Okla.
Application June 28, 1937, Serial No. 150,845
1 Claim. (Cl. 257—248)

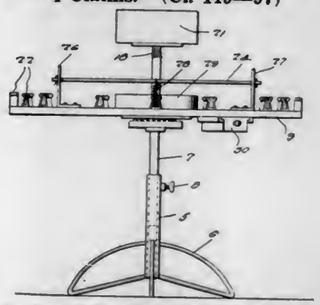
A heat exchanger comprising side members,

stationary headers carried by said side members in spaced relation, normally flexed courses of tubes connecting the headers, transversely disposed sag braces connecting the side members intermediate the headers and above which the courses of tubes extend and laterally move on



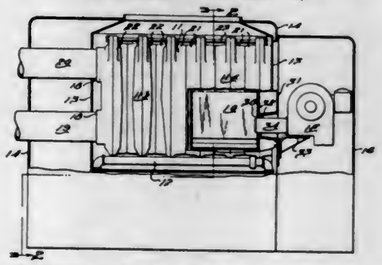
temperature change, undulated wear plates engaging the upper sides of the sag braces and in the undulations of which the courses of tubes are disposed, said undulated wear plates being anchored to the tube courses for movement therewith, in a transverse direction.

2,161,020
POULTRY BLOOD TESTING TABLE
William H. Crooks, Kenton, Ohio
Application December 14, 1937, Serial No. 179,793
4 Claims. (Cl. 119—97)



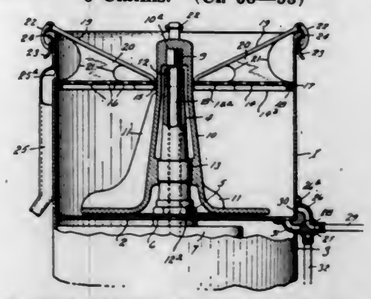
1. A device of the class described comprising a base a post supported by the base a table top rotatably arranged on the post, said post having a part extending above the table top, a test box supporting member, resilient means for connecting the bottom of the supporting member to the upper end of the post, means carried by the table top for holding fowls thereon, and a cylindrical member carried by the top and arranged adjacent the center thereof.

2,161,021
COMBUSTION APPARATUS
Martin De Lin, Holland, Mich., assignor to Holland Furnace Company, Holland, Mich., a corporation of Michigan
Application April 5, 1937, Serial No. 134,984
4 Claims. (Cl. 158—1)



1. A device of the character described comprising a hollow heat exchange body, a combustion chamber disposed within the heat exchange body in spaced relation to the walls thereof, the combustion chamber having an inlet opening and upper and lower outlet openings, the lower outlet openings being arranged to direct the products of combustion downwardly whereby the vertical walls of the heat exchange body are heated substantially uniformly throughout their vertical extent, and a burner associated with the inlet opening of the combustion chamber, said burner adapted to deliver a supply of fuel and air to the combustion chamber for combustion therein.

2,161,022
COMBINED WASHING AND RINSING MACHINE
Louis De Marco, Cleveland, Ohio
Application December 4, 1937, Serial No. 178,116
6 Claims. (Cl. 68—53)

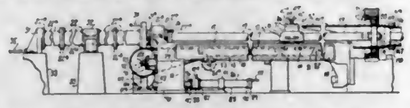


1. A combined washing and rinsing machine comprising a tub, a central standard projecting upwardly from the central portion of the bottom of said tub, a rotor having a body surrounding the said standard and extending thereabove, a shaft mounted within the standard and extending through and beyond the upper end thereof and connected with the rotor body, means for rotating the said shaft, connections for supplying water under pressure to the lower portion of the said tub, there being an overflow for the water so supplied located below the top of the said standard, and a perforated cover supported by said tub and disposed below the overflow and having a central opening for the reception of the upper portion of the rotor body.

2,161,023
DRAWBENCH
Michael J. Dempsey and Frederick W. Reher, Waterbury, Conn., assignors to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application May 17, 1938, Serial No. 208,340
15 Claims. (Cl. 205—7)

1. A draw-bench structure including in combination: a frame-structure carrying a die-head at one end thereof and provided with a carriage guide-way extending substantially throughout the length of the frame-structure; a reciprocating plug-rod movable axially in a direction parallel with the guide-way of the said frame-structure; means for axially moving the said plug-rod in opposite directions over substantially the entire length of the said guide-way; a plug-rod-supporting carriage supported on and movable along the major portion of the length of the guide-way of the said frame-structure, the said carriage being dimensioned to extend along a relatively-short portion of the said plug-rod

and being provided with guide-means through which the said plug-rod extends and which engage with the said plug-rod for supporting the same against transverse deflections; and reversible power-driven operating-means connected to the said carriage and operable to move the same



along the said major portion of the guide-way of the said frame-structure to support the plug-rod by the engagement in the said carriage of any of several relatively-short portions thereof aggregating the length of the plug-rod extending over the said major portion of the guide-way traveled by the carriage.

2,161,024
COATED HARD RUBBER ARTICLE
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application June 27, 1936, Serial No. 87,668
4 Claims. (Cl. 91—70)

1. A hard rubber article having a strongly adherent and resistant rubber free surface coating thereon, essentially comprising a vinyl resin resulting from the conjoint polymerization of vinyl chloride with vinyl acetate and containing from 80% to 90% by weight of vinyl chloride, together with a heat stabilizing material of a metallic compound adapted to prevent decomposition of the vinyl resin when subjected to baking temperatures at which the vinyl resin alone would normally decompose, said coating being bonded to the hard rubber surface by baking.

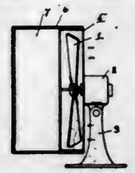
2,161,025
COATING COMPOSITION
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application September 10, 1936, Serial No. 100,110
4 Claims. (Cl. 260—17)

1. A coating composition of slow drying characteristics especially adapted for application by brushing comprising as the essential film-forming ingredients a mixture of nitrocellulose and a vinyl resin resulting from the conjoint polymerization of vinyl chloride with vinyl acetate and containing more than 60% vinyl chloride in the polymer; and a solvent for said mixture, said solvent essentially including as both a solvent and coupling agent a dialkyl ether of a glycol of the group consisting of alkylene and polyalkylene glycols.

2,161,026
LIGHT STABILIZER FOR VINYL RESINS
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application July 23, 1937, Serial No. 155,220
4 Claims. (Cl. 260—86)

1. Process for stabilizing light-sensitive vinyl resins including a vinyl halide polymerized therein against the discoloring and deteriorating effect of light, which comprises intimately combining said resin with a light stabilizing material essentially composed of antimony oxide in the proportion of from about 3% to about 30% of the vinyl resin weight.

2,161,027
FAN
Lewis L. Dollinger, Rochester, N. Y., assignor to Staynew Filter Corporation, Rochester, N. Y.
Application April 14, 1936, Serial No. 74,308
2 Claims. (Cl. 230—232)



1. Means for absorbing the noises carried by air under pressure which comprises a casing forming an air chamber, an inlet and an outlet for said casing and a plurality of silencing tubes having a length substantially six and one-half times their diameter located within said air chamber to provide unrestricted passage of air therethrough.

2,161,028
CONDUIT CLEANER
Paul P. M. Dubosclard, Buffalo, N. Y., assignor to Katherine V. Deem, Buffalo, N. Y.
Application May 12, 1937, Serial No. 142,307
1 Claim. (Cl. 15—104.30)



Means for supporting the flexible shaft of a conduit cleaner in a conduit, comprising a sleeve through which a portion of the shaft passes, means for clamping the sleeve to the shaft, a collar fitting around the sleeve and having radiating pairs of ears thereon, an arm pivoted between the ears of each pair, a roller at the outer end of each arm, means for removably fastening the collar to the sleeve and spring means for forcing the arms outwardly to cause the rollers to yieldably engage the internal walls of a conduit, said pivot for the arms constituting anchoring means for the spring means.

2,161,029
FAT SUBSTITUTE AND METHOD OF MAKING
Henry Carl Eckrich and Herman J. Eckrich, Sr., Fort Wayne, Ind., assignors to Peter Eckrich & Sons, Inc., Kalamazoo, Mich., a corporation of Indiana
No Drawing. Application August 18, 1937, Serial No. 159,709
5 Claims. (Cl. 99—123)

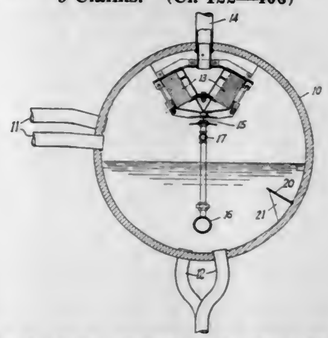
1. A product suitable for coating meat and other food products comprising gelatin and water in the approximate proportion of 1 to 3, and a fatty material which will solidify at atmospheric temperature, homogeneously combined and having a consistency approximating that of the white of a hard boiled egg, the approximate proportion of gelatine solution and fatty material being approximately 4 to 3.

2,161,030
MASK FOR STENCILING
Anton Fischer, North Bergen, N. J.
Application December 17, 1937, Serial No. 180,332
2 Claims. (Cl. 101—127)



1. In a sand blast mask, a blank having figural design openings and adapted to closely fit the surface of the object to be sand blasted, integral extensions arranged in spaced relation along the edge of said blank and arranged to closely fit the side wall of the object, and means at the end of said extensions to resiliently contact the lower edge of the object.

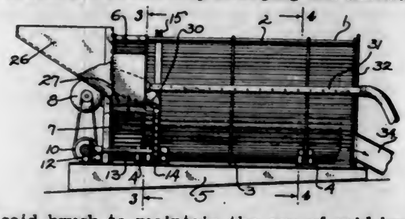
2,161,031
VAPOR GENERATOR
James Fletcher, Akron, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application November 9, 1937, Serial No. 173,582
9 Claims. (Cl. 122—406)



1. In a vapor generator, a liquid and vapor separating receptacle having a vapor outlet above the normal liquid level therein, a conduit connected to said receptacle above said normal liquid level and having its discharge end arranged to discharge a fluid stream through the vapor space of said receptacle and so as to impinge upon the surface of the liquid therein, a submerged liquid discharge conduit connected to said receptacle, and a normally submerged baffle extending inwardly from the receptacle wall between the area of impingement on said liquid surface and said liquid discharge conduit and arranged to obstruct the passage of fluid downwardly along said receptacle wall towards said liquid discharge conduit.

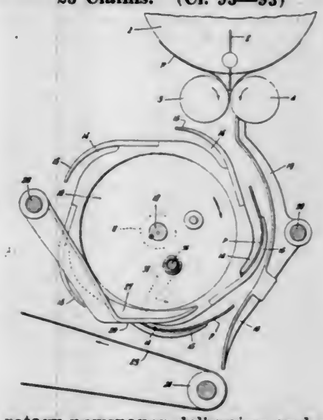
2,161,032
WALNUT HULLER
William E. Formway, Los Altos, Calif.
Application January 31, 1939, Serial No. 253,789
5 Claims. (Cl. 146—8)

1. A nut huller comprising a hollow cylindrical hulling cage formed of longitudinally positioned spaced cutter bars, means for rotating said cage, a stationary brush positioned inside of said cage and having bristles thereon extending toward and spaced from the inner edges of said cutter bars, said brush opposing a substantial arc of said cage, means for adjusting the average distance of the bristle ends from said inner ends of said cutter bars, and simultaneously changing the curvature



of said brush to maintain the arc of said brush substantially equidistant from the interior arc of said cage, means for rotating said cage, and means for introducing nuts to be hulled at one end of said brush in the direction of cage rotation.

2,161,033
DELIVERY AND COUNTING MECHANISM FOR ROTARY PRINTING PRESSES
Frank A. Foster, Maywood, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application October 21, 1937, Serial No. 170,237
23 Claims. (Cl. 93—93)



1. A rotary newspaper delivering and counting mechanism including in combination feeding-off rollers, a rotary fly having peripheral pockets to receive the folded papers, a counter arm rotatably mounted on the fly, means for intermittently actuating said counter arm relatively to a fly pocket to effect the paper count, and means for receiving papers from the fly pockets.

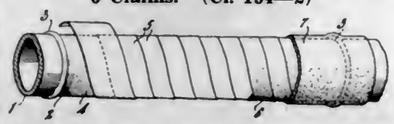
2,161,034
PRODUCTION OF TEXTILES
Ernst Freund, Vienna, Austria, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1936, Serial No. 68,949. In Austria March 15, 1935
8 Claims. (Cl. 28—1)

1. The process of imparting a high potential shrinkage to a regenerated cellulose thread which comprises treating said thread with an aqueous solution of a solid thread shrinking agent while preventing the shrinkage of said threads, and drying said thread while preventing the shrinkage thereof.

2,161,035
METHOD OF MAKING PHOSPHATE-SULPHUR FERTILIZER
Howard W. Gilbert, Washington, D. C., assignor to Freeport Sulphur Company, New York, N. Y., a a corporation of Delaware
No Drawing. Application July 27, 1937, Serial No. 155,915
7 Claims. (Cl. 71—37)

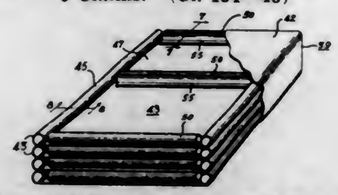
1. The method of making a phosphate-sulphur fertilizer comprising acidulating sulphur with approximately an amount of sulphuric acid which will dissolve therein, mixing the acidulated sulphur in a molten state with tricalcium phosphate material, and subdividing into particles the resultant mixture of particles of tricalcium phosphate bonded together by acidulated sulphur.

2,161,036
METHOD OF PROTECTING PIPE LINES
Henry F. Gremmel, Rutherford, N. J., and Harold D. Rice, Barrington, R. I., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 30, 1936, Serial No. 103,328
6 Claims. (Cl. 154—2)



1. A process of protectively coating underground metallic pipe-line of considerable length which is to be embedded in the earth in the form of joined sections against electrolytic corrosion, soil-stress, and pipe motion which comprises applying unvulcanized sheet rubber composition over the outer longitudinal surface of said pipe sections after their assemblage in the field, said rubber composition containing part of a powerful low-temperature vulcanizing combination, which combination includes an organic accelerator, and then incorporating into the rubber composition by diffusion the complementary ingredients required to complete said powerful vulcanizing combination, at the situs of assembly in the field, and allowing said composition to vulcanize in situ at local atmospheric temperature while said rubber composition is protected by a temporary outer covering over said rubber composition.

2,161,037
HEAT INSULATION
Richard E. Gould, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 30, 1934, Serial No. 708,957
6 Claims. (Cl. 154—45)



1. An insulating structure including a plurality of slab-like members each formed of a polygon shaped sheet portion having a plurality of edge portions forming its perimeter, each of the edge portions forming the perimeter of said polygon sheet portion being provided with a tubular structure extending along and adjacent it, the axes of each of said tubular structures extending along and parallel to the adjacent edge portion of the perimeter, a plurality of said slab-like members being stacked one upon the other and grouped together to form an insulating unit.

2,161,038
MANUFACTURE OF RUBBERLIKE POLYMERIZATION PRODUCTS
Bernard James Habgood, Rowland Hill, and Leslie Budworth Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 3, 1937, Serial No. 146,312. In Great Britain June 4, 1936
16 Claims. (Cl. 260—84)

1. Process for the manufacture of new synthetic rubber-like materials, which comprises interpolymerizing in aqueous emulsion a mixture of butadiene with not more than half its weight of a methacrylic ester of the formula

$$CH_2=C(CH_3)-C(=O)-O-CH_2-CH_2-O-R$$

wherein R stands for a hydrocarbon radical of the group consisting of alkyl radicals containing less than 5 carbon atoms, phenyl radicals, tolyl radicals, and xylyl radicals.

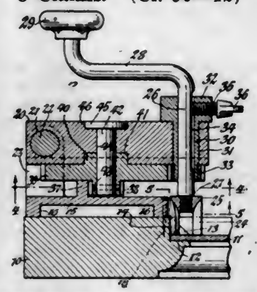
2,161,039
MANUFACTURE OF POLYMERIZATION PRODUCTS
Bernard James Habgood, Rowland Hill, and Leslie Budworth Morgan, Blackley, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 16, 1937, Serial No. 154,098. In Great Britain July 20, 1936
12 Claims. (Cl. 260—84)

1. Process for the manufacture of new synthetic rubber-like materials, which comprises interpolymerizing in aqueous emulsion a mixture of butadiene and chloromethacrylic ester of the formula

$$CH_2=C(CH_3)C(=O)O.R$$

wherein R stands for an alkyl radical, which contains not more than 3 carbon atoms, and in which a single hydrogen atom is replaced by chlorine.

2,161,040
DEVICE FOR REMOVING PUTTY FROM WINDOW SASHES
Lawrence E. Harmon, Jr., Jamestown, N. Y.
Application January 6, 1937, Serial No. 119,299
8 Claims. (Cl. 90—12)



1. A putty remover comprising a normally sta-

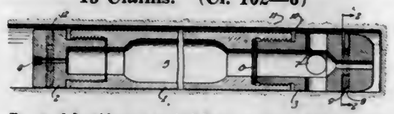
tionary support adapted to rest on a sash or the like from which putty is to be removed, a rotary cutter for engaging the putty, a carriage upon which said cutter is rotatably mounted, and means for guiding said carriage on said support, including a longitudinal guide rod upon which said carriage slides, and also turns, and posts mounted on said support and connected with opposite ends of said rod.

2,161,041

MATERIAL-BREAKING DEVICE

Allyn Harris, Chicago, Ill., assignor to Cardox Corporation, a corporation of Illinois

Application April 5, 1934, Serial No. 719,113
15 Claims. (Cl. 102—6)



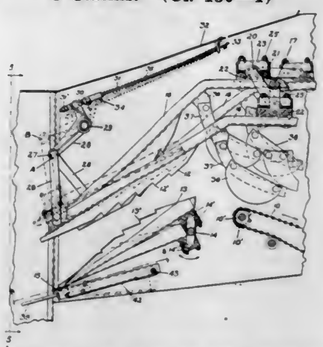
2. In a blasting cartridge, a container for receiving a blasting charge and adapted for insertion in a blast hole drilled in the material to be broken, discharge means for said container at the inner end of the container, and an expansible metallic spring member embodied in the cartridge and associated with said discharge means for sealing the walls of the blast hole between the inner closed end of the latter and the inner end of the cartridge.

2,161,042

THRESHER FEEDER MECHANISM

Arthur J. Hartley, Peoria, Ill.; The Central National Bank and Trust Company of Peoria and Neta S. Hartley, executors of said Arthur J. Hartley, deceased, assignors to Hart-Carter Company, Peoria, Ill., a corporation of Delaware

Application October 14, 1935, Serial No. 44,841
3 Claims. (Cl. 130—1)



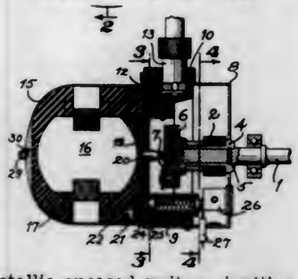
1. In a threshing machine feed mechanism including substantially conventional lower and upper feed pans and actuating means therefor, clog prevention mechanism including means for causing the upper feed pans to yield to the pressure of surplus grain fed to said mechanism, said means comprising a bell crank lever for each pan pivotally mounted upon the frame structure at its elbow and having a downwardly inclined arm, a link connecting the outer end of the said arm with the forward end portion of the pan, a rod disposed above and extending longitudinally of the pan and secured at one end to the machine frame at a point adjacent the mechanism actuating said pan, a compression spring on said rod, a reciprocable sleeve upon the free end of said rod normally pressed by said spring toward said free end, and connection between said sleeve and the other arm of the lever for yieldingly holding the latter in position to maintain the pan in its lowest position.

2,161,043

DISTRIBUTOR

Ralph M. Heintz, Palo Alto, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 30, 1936, Serial No. 108,432
3 Claims. (Cl. 123—148)



1. A metallic encased unitary ignition assembly comprising distributing means for high tension current, a metallic casing surrounding said distributing means, said casing having an opening exposing contacts of said distributing means, and a metallic cup shaped removable cover for said opening, an ignition coil mounted in said cover and having a terminal supported in the approximate plane of the opening of said cup shaped cover, said cover when assembled to said casing, effecting contact between said terminal and one of said contacts, and at the same time establishing metal to metal contact between said metallic cover and said metallic casing whereby said coil and contacts will be completely enclosed by metal.

2,161,044

ANTENNA REEL

Ralph M. Heintz, Palo Alto, and Henry W. A. Gruenhagen, San Bruno, Calif., assignors to Heintz & Kaufman, Ltd., San Francisco, Calif., a corporation of Nevada

Application March 23, 1935, Serial No. 12,708
3 Claims. (Cl. 173—367)



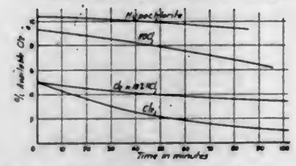
1. An antenna reel for aircraft comprising a foundation to be attached to said aircraft, a reel casing attached to and separated from said foundation by insulating material, a driven wheel fixed to said casing and having a peripheral wire channel thereon, an opposed movable feed wheel having a similar channel thereon, the combined channels being of lesser area than a wire to be driven, an antenna wire passing through said channels, means urging said channels together to grip said wire, a wire storage magazine having an overhanging rim rotatably attached to said casing, one end of said wire being directed tangentially from said wheels into the peripheral storage chamber of said magazine, the other end of said wire passing out of said casing, and a motor connected to said driven wheel through an insulating coupling, said motor being attached to said foundation.

2,161,045

BLEACHING

Wilhelm Hirschkind, Berkeley, David J. Pye, Pittsburg, Calif., and Earl G. Thompson, Seattle, Wash., assignors, by mesne assignments, to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application June 1, 1937, Serial No. 145,806
Renewed November 7, 1938
12 Claims. (Cl. 8—106)



6. The step of improving a cellulosic material undergoing an oxidizing bleach which consists in irradiating the material with light waves all substantially longer than 300 millimicrons.

2,161,046

PARKING METER

Arthur C. Hitzeman, Roselle, Ill., assignor to David C. Rockola, Chicago, Ill.

Application March 27, 1936, Serial No. 71,118
9 Claims. (Cl. 194—83)



4. In a token or coin controlled parking meter for indicating and timing a parking period, the combination of a clock, an indicator adapted to be driven from said clock, a token or coin moving member adjacent one side of said indicator, said indicator having a token or coin operable member engageable by a token or coin being moved by said moving member for setting said indicator in a starting position, means for adjusting said indicator for varying the distance through which the indicator is moved whereby to vary the starting position thereof, means rotatable with the indicator for winding said clock, and means driven by said clock for driving the last said means whereby to drive said indicator.

2,161,047

SHOWER RING

Orloff W. Holden, Chicago, Ill., assignor to Knickerbocker Rubber Company, Chicago, Ill., a corporation of Illinois

Application March 16, 1938, Serial No. 196,122
9 Claims. (Cl. 4—157)



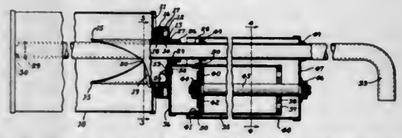
1. A tubular shower ring provided with a large number of jet-discharging perforations, and a flange-like rib located at the bottom of the ring outwardly of the perforations with the lower edge of the rib well below the level of the perforations.

2,161,048

DISPENSING DEVICE

John H. Horstman, Dayton, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a corporation of Ohio

Application May 19, 1937, Serial No. 143,479
12 Claims. (Cl. 221—77)



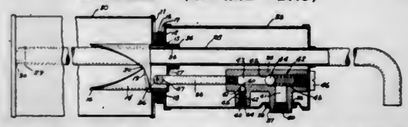
1. A dispensing device of the character described adapted to discharge the contents of a container which comprises cutting means for cutting an aperture into the wall of the container, sealing means for holding the device in fluid sealed relation with said container over said aperture, a discharge tube slidably mounted with respect to said cutting means and adapted to be moved through said aperture into the container adjacent the bottom thereof when the device is in operative position, a pump cylinder alongside the discharge tube, a reciprocable pump plunger, a manual operating member for operating said pump plunger to create an expelling pressure upon the contents of the container, and guiding means slidable along said discharge tube for guiding said operating member during reciprocation thereof.

2,161,049

DISPENSING DEVICE

John H. Horstman, Dayton, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a corporation of Ohio

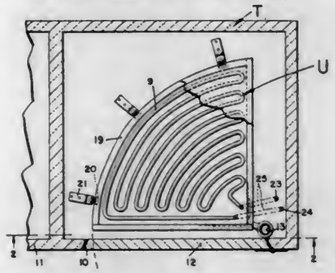
Application May 19, 1937, Serial No. 143,480
1 Claim. (Cl. 221—47.3)



A dispensing device of the character described adapted to discharge the contents of a container which comprises cutting means for forming an aperture in the container, means for attaching the device in fluid sealed relation with respect to

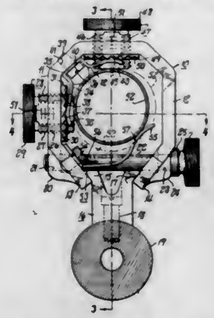
said aperture in the container, a discharge tube slidably mounted with respect to said cutting means and movable into said container through said aperture, means forming a connection for a source of air pressure, manually operative means for controlling the application of said air pressure to said container to effect discharge of the contents through said tube, and means for limiting the rate of application of said air pressure to said container.

2,161,050
REFRIGERATING TRUCK
Mark H. Hovey, Stoughton, Wis.
Application July 28, 1937, Serial No. 156,179
4 Claims. (Cl. 62—89)



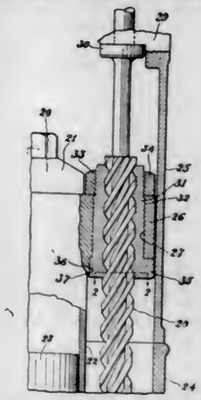
1. In a device of the class described, an insulated body having a narrow elongated opening, a cooling unit hingedly mounted in the body adjacent to one end of the opening and movable through the opening into and out of said body, said cooling unit having inlet and outlet terminals of the unit being arranged adjacent to the hinge point thereof, and feed and return pipes for the cooling fluid arranged adjacent to said terminals and operatively connected therewith.

2,161,051
ADJUSTABLE TELESCOPE MOUNT FOR FIREARMS
Frederick L. Humeston, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Application March 6, 1937, Serial No. 129,507
10 Claims. (Cl. 33—50)



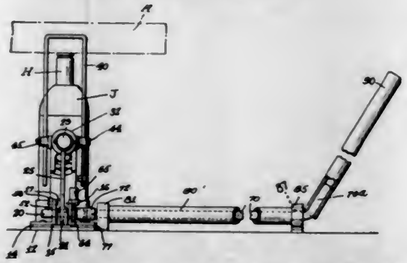
1. A telescope-mount for firearms, comprising a body-unit provided with a threaded passage; a detent-member in rotational engagement with the said body-unit; an adjusting-screw extending through and having a threaded connection with the said threaded passage, the said adjusting-screw being movable axially past the said detent-member and having a non-rotational connection therewith for transmitting thereto only the rotational movement of the adjusting-screw; and a second detent-member connected to the body-unit independently of the adjusting-screw and in yieldable interlocking engagement with the first-mentioned detent-member under substantially-constant pressure during recurring intervals intervening between successive rotational displacements of the adjusting-screw.

2,161,052
WEAR COMPENSATING DEVICE
Joseph I. Hulshizer, Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application October 7, 1937, Serial No. 167,711
4 Claims. (Cl. 74—424.8)



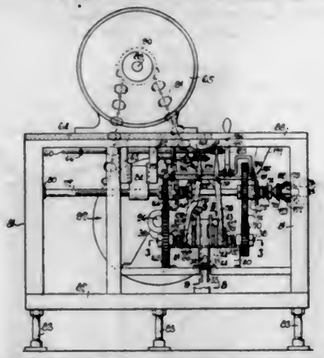
1. A wear compensating device, comprising a male member having a thread, and a female member having a plurality of flutes and each flute being of a different width than the other flutes to successively accommodate the thread accordingly as the width of the thread decreases through wear.

2,161,053
APPARATUS TO OPERATE A JACK
Gilbert H. Inman, Taunton, Mass.
Application November 25, 1938, Serial No. 242,237
18 Claims. (Cl. 254—1)



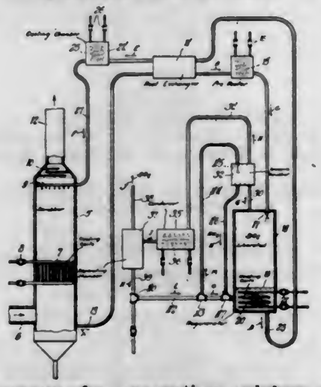
1. Apparatus to operate a jack comprising actuating means adapted to be operatively connected to said jack, a connecting rod operatively connected to said means and extending laterally of the longitudinal axis of said means, and actuating instrumentalities adapted to be operatively connected to and upon actuation to actuate said rod.

2,161,054
VARIABLE SPEED DRIVE
James A. Jepson, Decatur, Ga., assignor to Decatur Associates, a partnership composed of James A. Jepson, Alfred Jepson, and Clyde Z. Walker, all of Decatur, Ga.
Application February 24, 1937, Serial No. 127,468
19 Claims. (Cl. 57—98)



1. A variable drive for spinning frames and the like comprising a motor having a shaft, a V-pulley fixedly mounted on said shaft, a main drive shaft for the spinning frame, an expansion V-pulley having its proximate faces beveled and said faces being movable towards and away from each other on said drive shaft, means driven by the spinning frame for moving the motor relative to the expansion V-pulley and other means also driven by the machine for moving the two faces of said expansion pulley away from each other as the motor moves away from the expansion pulley and for moving the faces of the expansion pulley towards each other as the motor moves towards the expansion pulley, and a belt mounted on said pulleys.

2,161,055
RECOVERY OF SO_2 FROM AMMONIUM SULPHITE SOLUTIONS
Henry F. Johnstone and Alamjit D. Singh, Urbana, Ill., assignors, by mesne assignments, to Commonwealth Edison Company, Chicago, Ill., a corporation of Illinois
Application August 24, 1936, Serial No. 97,550
15 Claims. (Cl. 23—178)

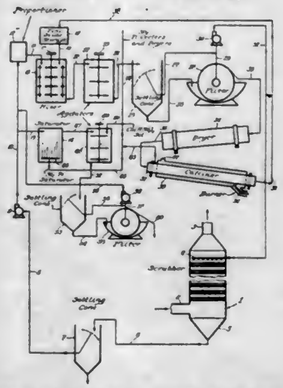


1. A process for separating sulphur dioxide from a solution of ammonium sulphite and bisulphite wherein the vapor pressure of sulphur dioxide over the solution entering the separator is less than that of water, which comprises contacting said solution in a regenerator with vapors containing steam, condensing a portion of the steam, returning said condensed portion into contact with the vapors issuing from said regenerator to remove ammonia gas from said vapors, separating the condensate from said vapors, and returning it to said regenerator at a point below the level of the regenerated solution therein.

10. A process for separating sulphur dioxide from a solution of ammonium sulphite and bisulphite wherein the vapor pressure of sulphur dioxide over the solution entering the separator is less than that of water, which comprises contacting said solution in a regenerator with vapors containing steam, condensing substantially all of the water in said vapors externally of said regenerator, contacting said vapors issuing from said regenerator with a portion of said condensate, and returning all of said condensate to said regenerator at a point below the level of the regenerated solution therein.

14. The process of removing and recovering sulphur dioxide from waste gases containing the same, which comprises contacting said gases with a solution of ammonium sulphite and bisulphite to absorb said sulphur dioxide therein, preheating said solution containing said absorbed sulphur dioxide, introducing said heated solution into a regenerator in contact with steam, condensing the water in the vapors issuing from said regenerator, contacting said vapors with a portion of said condensate, combining said portion of said condensate with the remainder of said condensate, and returning all of said condensate to said regenerator at a point below the level of the regenerated solution therein.

2,161,056
PROCESS FOR RECOVERING SULPHUR DIOXIDE FROM WASTE GASES
Henry F. Johnstone and Alamjit D. Singh, Urbana, Ill., assignors, by mesne assignments, to Commonwealth Edison Company, Chicago, Ill., a corporation of Illinois
Application March 24, 1937, Serial No. 132,692
5 Claims. (Cl. 23—178)



1. The process of recovering sulphur dioxide from dilute sulphur dioxide gases which consists of absorbing the sulphur dioxide in an aqueous solution of sodium sulphite and bisulphite, treating the enriched solution with zinc oxide, removing the precipitated zinc sulphite from the solution, returning the solution to contact with the gases in a cyclic manner, drying the zinc

sulphite, heating the zinc sulphite to decomposition into zinc oxide and sulphur dioxide, collecting the sulphur dioxide, and returning the zinc oxide for further treatment of the enriched solution.

2,161,057
BRAZING ALLOY
Philip R. Kalischer, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 31, 1939, Serial No. 265,228
4 Claims. (Cl. 75—153)

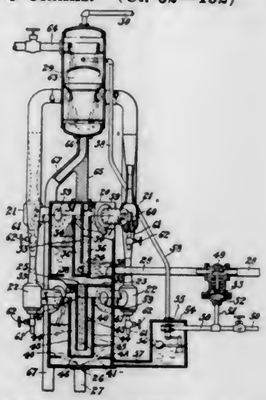
1. A brazing alloy comprising from 4% to 10% of phosphorus and from .1% to 6% of antimony with the balance substantially all copper.

2,161,058
X-RAY CASSETTE
Charles B. Kamiss, Flushing, N. Y.
Application February 25, 1939, Serial No. 258,445
5 Claims. (Cl. 250—68)



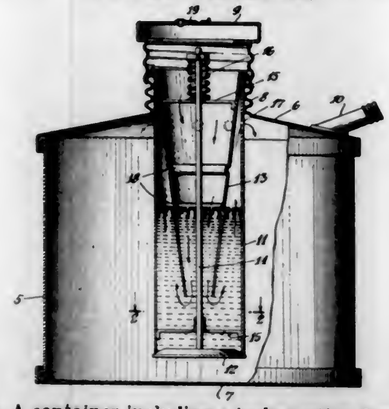
1. An X-ray cassette comprising a frame substantially of a rectangular shape, having a continuous recess around the inner surface, a composition sheet of material forming a plate resting upon a flange extending from the frame at one side of the recess, a key extending continuously around the inner surface of the frame fitting into the recess and resting upon the plate, locking the plate in place, a back hinged to the frame, and means resiliently urging the back toward the plate.

2,161,059
REFRIGERATING APPARATUS
Alfred D. Karr, Newark, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application June 11, 1937, Serial No. 147,618
9 Claims. (Cl. 62—152)



4. In refrigerating apparatus, evaporator means, means in the evaporator means defining upper and lower compartments, means in the compartments to define chambers therein, a single liquid inlet for all the chambers of the upper compartment, a single liquid outlet conduit for all the chambers of the upper compartment to discharge liquid therefrom to the chambers of the lower compartment, means to reduce the pressure in the chambers of the upper compartment, and means to reduce the pressure in the chambers of the lower compartment to a pressure less than the pressure in the chambers of the upper compartment.

2,161,060
CONTAINER
Cadwallader W. Kelsey, Troy, N. Y.
Application September 8, 1937, Serial No. 162,844
2 Claims. (Cl. 137—21)



1. A container including a body portion formed with an upper central opening, a secondary container adapted to be positioned within said body and supporting at its upper end by contact with said body opening, the remainder of said container being spaced from the interior of said body, a valve forming the lower end of said secondary container and normally sealing the same, said secondary container being formed with a plurality of venting apertures adjacent its upper edge at a point within the confines of said body portion, and a deflecting cone positioned within said secondary container and being open at both ends, the wide end of said cone engaging the upper end of said secondary container and being supported thereby, the lower end of said cone extending to a point adjacent the lower end of said secondary container but spaced therefrom, whereby liquids poured into the upper end of said cone travel a tortuous path through said cone and up the interior of said secondary container to the venting apertures therein before entering the primary container body unless said body is rendered directly accessible by the opening of said valve.

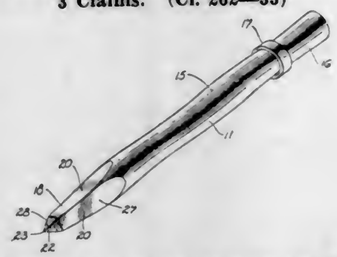
2,161,061
EXPANSIBLE MANDREL
Ernest E. Keyes, Kalamazoo, Mich., assignor of one-half to Edward H. Edelman, Kalamazoo, Mich.
Application January 8, 1938, Serial No. 184,009
11 Claims. (Cl. 242—72)



1. An expansible mandrel comprising a shaft having a plurality of peripheral cam surfaces, a sleeve rotatably associated with said shaft and having a plurality of longitudinal slots therein and provided with a helical cam at one end, a thrust collar on said shaft coacting with the opposite end of said sleeve, knurled clutch rollers

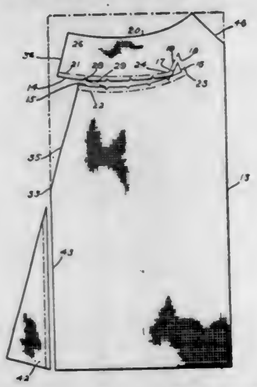
arranged in said slots in said sleeve to coact with said cam surfaces of said shaft, the cam surfaces being provided at one end thereof with seats receiving said rollers when the rollers are in released position, the seats being of such depth that the outer surfaces of the rollers are at substantially the periphery of the sleeve, a clamping collar rotatable on said shaft and having a helical cam coacting with the cam on the end of said sleeve, and a thrust collar on said shaft supporting said clamping collar, said sleeve, clamping collar and thrust collar being adapted to receive tools whereby the sleeve, the shaft and the clamping collar may be rotatively adjusted relative to each other.

2,161,062
PERCUSSION TOOL
Robert J. Killgore, Los Nietos, Calif.
Application March 24, 1934, Serial No. 717,182
3 Claims. (Cl. 262—33)



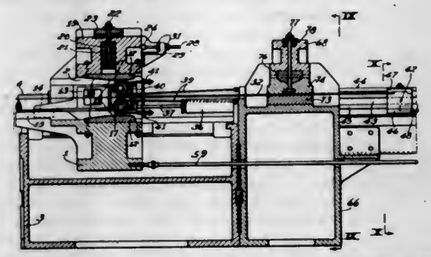
1. A cutting tool of the character described for use in cutting hard materials, comprising: a body of relatively tough metal having a tapered opening extending inwardly from the cutting portion thereof, the inner end of the wall forming said opening being gradually reduced to form a bottom for said opening without the formation of an abrupt shoulder; and a tapered insert of hard metal in said opening in such position that the inner end of said insert will be spaced from the bottom of said opening, the walls of said body around said opening being so formed as to hold said insert in radial compression.

2,161,063
ARTICLE OF WEARING APPAREL
Harriet S. Kohler, Westport, Conn.
Application August 22, 1938, Serial No. 226,153
5 Claims. (Cl. 2—73)



1. A body garment comprising waist and skirt portions and being made from a blank of material, the vertical edges of which are joined together to form a rear vertical seam, the front central portion of the garment being substantially on the straight of the material, each side of the garment being provided with an elongated dart extending from the bust portions through the underarm sections to the rear of the garment, a second dart on each side of the garment extending from the inner end of the elongated dart upwardly over the bust portion, the material above the elongated dart being in a biased position relative to the material below the dart.

2,161,064
METHOD AND APPARATUS FOR ELONGATING METAL BLANKS
Frank R. Krause, Ellwood City, Pa.
Application February 19, 1937, Serial No. 126,633
18 Claims. (Cl. 80—40)

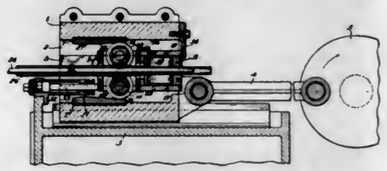


1. A rolling mill comprising a housing open from end to end and provided interiorly with a pair of spaced track surfaces having substantially parallel areas merging into areas inclined away from each other toward the exit end of the housing, a pair of rolls rotatably mounted between said track surfaces in frictional engagement therewith, said rolls forming a pass for receiving a metal blank, means for effecting relative longitudinal reciprocable movement between said housing and blank to cause said rolls to periodically roll simultaneously on the blank toward the entering end of the blank and toward each other to reduce and elongate a portion of the blank, the rotation of the rolls being controlled principally by their frictional engagement with the tracks and blank, means for holding said housing and the unrolled portion of the blank against movement in the same direction during the blank-reducing steps, and means for periodically subjecting successive unrolled increments of said blank to the action of said rolls whereby to periodically roll successive portions of the blank.

2,161,065
APPARATUS FOR REDUCING TUBULAR BLANKS
Frank R. Krause, Ellwood City, Pa.
Application December 2, 1936, Serial No. 113,839
16 Claims. (Cl. 80—12)

1. A tube rolling mill comprising a track housing open from end to end and provided interiorly with a pair of spaced track surfaces having substantially parallel areas merging into areas inclined away from each other toward the exit end of the housing, a roll housing disposed in said track housing between said tracks, a pair of grooved rolls rotatably mounted in said roll housing, a mandrel extending through the roll pass formed by the roll grooves and adapted to support a tubular blank, means for effecting relative lon-

gitudinal reciprocable movement between said track housing and blank to cause said rolls to periodically roll simultaneously on the blank toward the entering end of the blank and toward each other to elongate a portion of the blank, the rotation of the rolls being controlled principally by their frictional engagement with the tracks and



blank, means for holding said track housing and the unrolled portion of the blank against movement in the same direction during the blank-reducing steps, and means for periodically subjecting successive unrolled increments of said blank to the action of said rolls whereby to periodically roll successive portions of the blank.

2,161,066
SELENIUM-CONTAINING CATALYST
William Alfred La Lande, Jr., Upper Darby, Pa.
No Drawing. Application December 3, 1937, Serial No. 177,893
13 Claims. (Cl. 260—684)

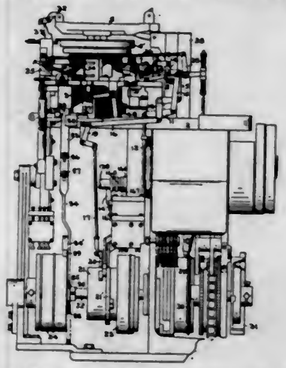
1. An agent for promoting dehydrogenation of organic compounds comprising a relatively inert argillaceous adsorbent substantially uniformly impregnated with elemental selenium, said selenium forming a substantially continuous film throughout the pores and surfaces of said argillaceous adsorbent.

3. The method of preparing a selenium-containing catalyst which comprises impregnating a relatively inert argillaceous adsorbent with a reducible selenium compound and subjecting said impregnated adsorbent to the action of a reducing agent to reduce said selenium compound to elemental selenium, said selenium forming a substantially continuous film throughout the pores and surfaces of said inert argillaceous adsorbent.

10. In a method for effecting dehydrogenation of an organic compound which is susceptible of dehydrogenation, the step which comprises heating said organic compound in intimate contact with a relatively inert argillaceous adsorbent substantially uniformly impregnated with elemental selenium, said selenium forming a substantially continuous film throughout the pores and surfaces of said argillaceous adsorbent.

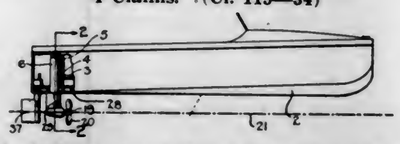
2,161,067
SPLIT-FOOT KNITTING MACHINE AND METHOD
Robert H. Lawson, Pawtucket, and Arthur N. Cloutier, Lonsdale, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application April 8, 1936, Serial No. 73,325
In Canada April 10, 1935
21 Claims. (Cl. 66—43)

1. A split-foot knitting machine having one group of needles provided with long butts and another group of needles provided with short butts, jacks cooperating with some of the short butt needles to make them knit on the side of the long butts when desired, a pair of fixed cams beneath which said jacks may pass and a movable cam between the pair of fixed cams for raising jacks which pass beneath one of the fixed cams



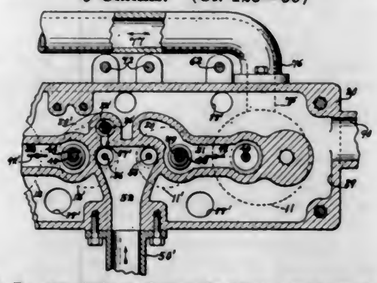
up to yarn taking position whereupon said jacks will pass up the inner side of the other fixed cam.

2,161,068
BOAT DRIVE
Leslie A. Layne, Houston, Tex.
Application April 11, 1936, Serial No. 73,899
4 Claims. (Cl. 115—34)



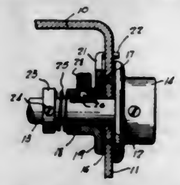
1. A drive assembly for boats comprising a power unit, a drive shaft extending therefrom, a ring gear housing having an opening therethrough, a ring gear therein, a connection to transmit power from said shaft to said gear; means mounting said gear housing transversely of the axis of the boat so that a passage through said housing is provided and projecting below the bottom of the boat, a propeller shaft carried by said housing and rotatable by said gear, and a propeller on said shaft disposed in front of said housing.

2,161,069
INTERNAL COMBUSTION ENGINE
Pietro Maniscalco, Toledo, Ohio
Application May 27, 1937, Serial No. 145,078
9 Claims. (Cl. 123—59)



5. In an internal combustion engine, a plurality of sets of cylinders, each set including a precompression cylinder and a combustion cylinder also a charge storing and conveying chamber in the cylinder head connection the two cylinders, all the cylinders being mounted in line and having the precompression cylinders arranged in pairs of two adjoining cylinders, inlet chambers in the cylinder head and means conducting fuel charge thereto, each inlet chamber being enlarged at its inward end and provided with two valved ports extending to a pair of two adjoining cylinders, a valve opening with a spring-held valve extending from each precompression cylinder to a storage chamber, a valved port extending from each storage chamber to a combustion cylinder, safety valve means including a by-pass extending from each storage chamber and a channel connecting the by-pass with said inlet chamber, also an adjustable spring-held valve in said channel whereby to regulate the limit of pressure of the charge in said storage chamber, cam shaft means for actuating the valves on the cylinder ports, pistons in said cylinders having piston rods thereon, and a crank shaft operatively connected to all of said piston rods.

2,161,070
GAS BURNER CONTROL
Walter S. McDonough, Philadelphia, Pa.
Application April 16, 1937, Serial No. 137,187
4 Claims. (Cl. 251—163)



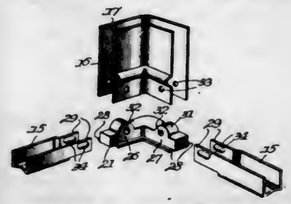
1. Control mechanism for a valve operating shaft which passes through an opening in a plate, said control mechanism comprising a stop formed on the shaft, a collar disposed about said shaft, a spring pressed detent carried by said collar for engaging said stop, said collar and plate being formed with cooperating elements for establishing frictional resistance against rotative movement of the collar, and means accessible from the side of the plate remote from the stop for overcoming said frictional resistance and rotating said collar.

2,161,071
METHOD OF PACKING FROZEN FOOD
Leigh J. McGrath and Wayne L. Hall, San Francisco, Calif., assignors to Zellerbach Paper Company, San Francisco, Calif., a corporation of Nevada
Application May 2, 1938, Serial No. 205,587
5 Claims. (Cl. 99—171)



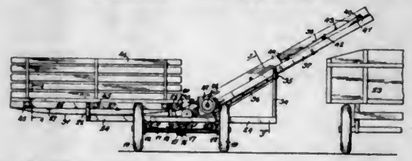
1. The method of packing a product to be frozen in a moisture-proof container which comprises partially filling the container, applying pressure to raise the level of the contents of the container, sealing the container, releasing the pressure, and then freezing.

2,161,072
CONTAINER STRUCTURE
Fred Y. McKenney, Red Bank, Tenn., assignor to Cumberland Case Company, Chattanooga, Tenn., a corporation of Tennessee
Application November 24, 1937, Serial No. 176,324
2 Claims. (Cl. 217—69)



1. The combination in a box-like structure of side and end walls each recessed at its lower corners to form angular cut-outs in the lower corners of the structure, channel-shaped runner elements embracing the lower edges of the walls, angled corner brace elements overlying the meeting portions of the inner and outer surfaces of the walls and terminating above the lower edges of the walls, an angled wear element positioned in each cut-out of the lower corner of the structure, said wear member being solid and of substantially the same height as said runner elements, and means to secure said elements together and extending horizontally through the elements at points above the lower edges of the elements.

2,161,073
BEET LOADER
Amos C. Mehl, Crook, Colo.
Application June 23, 1938, Serial No. 215,348
6 Claims. (Cl. 209—240)

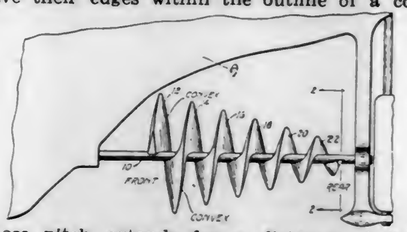


1. A beet cleaner and loader comprising in combination, a chassis having a pair of wheels at each end, an open link conveyor supported on the chassis, in horizontal position, and extending transversely thereof the conveyor being open at its rear and provided with a bang board at its front side, means for operating the conveyor, means for shaking the conveyor to effect the cleaning of beets deposited thereon, a second conveyor, extending in the same general direction as the first and upwardly and outwardly inclined, the lower end of the second conveyor being positioned to receive beets discharged from the first conveyor the parts being arranged to form a transversely balanced structure, and means interconnecting the two conveyors to effect simultaneous operation.

2,161,074
PROPELLER
Gabriel R. Mertens, Darby, Pa.
Application December 1, 1936, Serial No. 113,547
1 Claim. (Cl. 170—156)

An integral boat screw propeller comprising a central shaft, a continuous blade comprising a plurality of complete convolutions surrounding said shaft, said convolutions decreasing in pitch

from the front to the rear in a direct arithmetical progression, the diameter of each convolution of the propeller decreasing in diameter by a direct arithmetical progression from the front to the rear, the convolutions arranged to have their edges within the outline of a cone



whose pitch extends for a distance of five-eighths of the length of the medial axis of said cone, and the outline of a truncated cone whose medial axis forms an angle with the generatrix of the truncated cone so that the tangent of the angle is approximately 0.25.

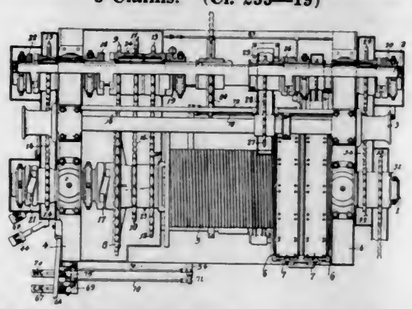
2,161,075

DRAW WORKS

John S. Morgan, Jr., Inglewood, Calif., assignor, by mesne assignments, to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application December 21, 1935, Serial No. 55,591

5 Claims. (Cl. 255—19)



1. In a rotary drawworks, the combination of a drive shaft, a driven shaft, means for driving the drive shaft, a rotary drive sprocket mounted on the drive shaft, a double rotary drive sprocket on the driven shaft, means for releasably engaging the rotary drive sprocket with the drive shaft, a transmission connection from the rotary drive sprocket to one sprocket of the double sprocket, a transmission element on the driven shaft, means for directly coupling the transmission element to the double sprocket, and a releasable transmission drive from the drive shaft to said transmission element to drive the double rotary sprocket at a second speed.

2,161,076

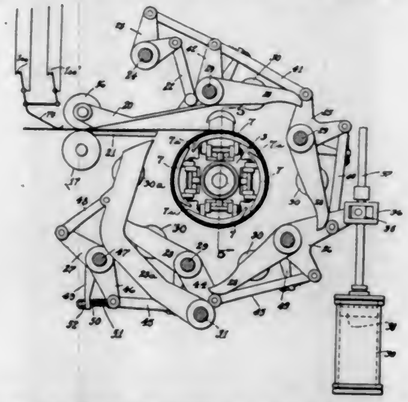
METHOD OF AND APPARATUS FOR REELING STRIP MATERIAL

Myles Morgan, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts

Application April 29, 1936, Serial No. 77,003

32 Claims. (Cl. 242—78)

4. In the operation of an "automatic" reel for strip or like material, the improvement which consists in so confining and directing the advancing first end of the moving material as to form a few wraps of same around a rotating core, and then expanding said rotating core into internal gripping engagement with said initial wraps, whereby for the subsequent reeling-up of each piece of material said core functions as a "traction" reel.



2,161,077

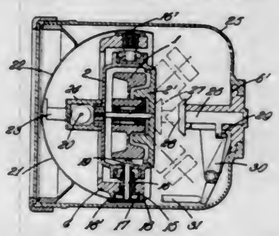
NAVIGATIONAL INDICATING INSTRUMENT

Douglas George King Moss, Sanderstead, England, assignor to Mechanism Limited, Croydon, England, a limited corporation of Great Britain

Application February 4, 1937, Serial No. 124,009

In Great Britain February 12, 1936

9 Claims. (Cl. 33—204)



1. In a gyroscopic pitch azimuth navigational instrument, an inner gimbal carrying a gyro wheel having a normal horizontal spin axis, an outer gimbal to which said inner gimbal is pivoted by normally vertical pivots, spaced bearings supporting said outer gimbal on a horizontal axis at right angles to said gyro wheel axis in a predetermined normal relation with respect to said inner gimbal, air chambers carried by said inner and outer gimbals, respectively, means for differentially opening and closing a set of oppositely directed air exit orifices in the air chamber of said inner gimbal, said means being controlled by tilting about the horizontal axis of said outer gimbal for causing said gyro to precess and eliminate said tilt, and means for differentially opening and closing a set of oppositely directed air exit orifices in the air chamber of said outer gimbal, the latter means being controlled by relative movement of said gimbals about said vertical pivots for precessing said gyro to restore said inner gimbal to said predetermined relation with respect to said outer gimbal.

2,161,078

PROCESS FOR THE POLYMERIZATION OF TRICHLORETHYLENE

Martin Mugdan and Josef Wimmer, Munich, Germany, assignors to Consortium für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, a corporation

No Drawing. Application December 28, 1936, Serial No. 117,903. In Germany January 6, 1936

3 Claims. (Cl. 260—654)

1. Process for polymerizing trichlorethylene, principally to its dimerous polymer, which comprises heating trichlorethylene in the absence of a catalyst under a pressure above atmospheric to a temperature above 150° C. and below a temperature at which substantial decomposition occurs.

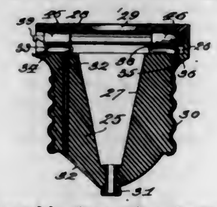
2,161,079

RENEWABLE INDICATING FUSE PLUG

Hrand M. Muncheryan, Los Angeles, Calif., assignor to Royal Electric Company, Pawtucket, R. I.

Application March 23, 1936, Serial No. 70,262

1 Claim. (Cl. 200—130)



In a renewable fuse plug having an opening therein and a fixed contact on either side of said opening; a renewable fuse unit extending across said opening and bridging said contacts, said unit comprising an electric current conducting fusible element, a combustible body overlying said element and in contact therewith, a sheet of fireproof transparent material overlying said body and closing said opening, and means connecting said element, body and sheet together to form said unit.

2,161,080

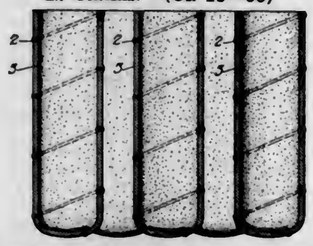
TUBULAR RUBBER AND SPRING STRUCTURE AND METHOD OF PRODUCING THE SAME

Edward Arthur Murphy, Wylde Green, Birmingham, Geoffrey William Trobridge, Sutton Coldfield, and Albert Nelson Ward, Alum Rock, Birmingham, England, assignors to Dunlop Rubber Company Limited, London, England, a British company

Application April 2, 1937, Serial No. 134,674

In Great Britain May 27, 1936

12 Claims. (Cl. 18—58)



1. A process for making composite rubber structures which comprises dipping a helical spring into an aqueous dispersion of rubber, withdrawing the spring from the aqueous dispersion aforesaid in a direction to form a wall of dispersion embedding and extending between the successive convolutions of the helical spring and coagulating the aqueous dispersion of rubber on the helical spring.

5. An upholstery structure comprising a number of hollow integrally joined shells of cellular rubber the walls of said shells being reinforced with individual helical springs embedded therein.

2,161,081

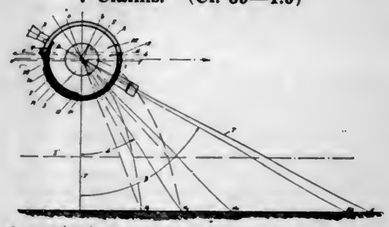
AUTOMATIC BOMB RELEASING DEVICE

Alexandre Ovtschinnikoff, Issy-les-Moulineaux, France

Application April 1, 1936, Serial No. 72,134

In France July 9, 1935

7 Claims. (Cl. 89—1.5)



1. A control apparatus for use on an aircraft in connection with an electrically operated bomb release device, which comprises, in combination, a frame adapted to be fixed on said aircraft, a sighting element pivotally carried by said frame about a horizontal axis, so as to permit of keeping said element continuously pointed toward a target on the ground, an electric contactor carried by said frame including an insulating conduit with at least one contact, and a conducting liquid normally apart from said contact, means, operative by said sighting element, for producing a relative movement of said liquid in said conduit toward said contact synchronous with the movement of said sighting member when the latter is pivoted downwardly so as to be kept pointed toward the target, means for modifying the conditions of flow of said liquid in said conduit an adjustable time after said sighting element has passed through a given angular position, and an electric circuit for controlling said bomb release device including in series said contact and said liquid.

2,161,082

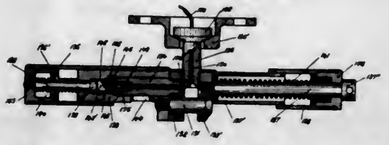
BOMB SUSPENSION

Alexandre Ovtschinnikoff, Issy-les-Moulineaux, France

Application April 1, 1936, Serial No. 72,135

In France July 9, 1935

3 Claims. (Cl. 89—1.5)



1. A bomb release device for an aircraft which comprises, in combination, a piston adapted to be fixed rigidly to said aircraft, a barrel fitting on said piston movably with respect thereto, a sleeve surrounding said barrel slidably with respect thereto, a part rigid with said piston forming a

housing for the suspension ring of a bomb, a supporting pin for said ring rigid with said barrel and slidable in said housing, said barrel being provided with a chamber opposite the end of said piston adapted to receive a load of powder, igniting means for said load operative from the outside of said barrel, a rod rigid with said sleeve having a head fitting in said chamber so as to close one end thereof opposite said piston end, an abutment carried by said head adapted to cooperate with said barrel for driving it outwardly when said load is ignited, at least one spring interposed between the corresponding ends of said barrel and said sleeve, an abutment carried by said piston for stopping the movement of said sleeve with respect to said piston after a predetermined displacement, whereby said barrel is subsequently caused to move alone against the action of said spring with respect to said sleeve, and an abutment for said barrel carried by said sleeve for stopping the movement of said barrel with respect to said sleeve.

2,161,083
LAMINATED FIBER-RUBBER SHEET MATERIAL AND ARTICLES MADE THEREFROM

Allen F. Owen, Beaver Falls, N. Y., assignor to Latex Fiber Industries, Inc., Beaver Falls, N. Y., a corporation of New York

Application March 18, 1936, Serial No. 69,479
1 Claim. (Cl. 154—46)

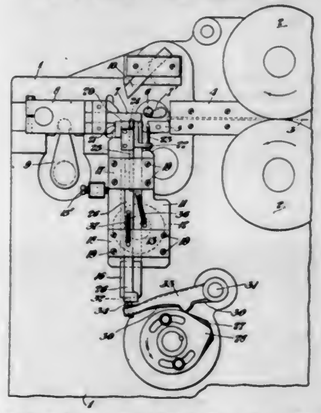


A shoe counter composed of laminated sheet material comprising a layer of the deposit of fibers and rubber from an aqueous suspension of fibers and dispersed rubber particles, and a layer adhered to said first layer of a rubber impregnated fibrous web, said first layer being appreciably denser than said second layer, and said counter being skived off leaving a tapered edge of said second layer at said skived portions.

2,161,084
SPRING MACHINE APPLIANCE

Carl H. Peterson and William V. Moren, Worcester, Mass.

Application January 3, 1939, Serial No. 249,120
10 Claims. (Cl. 140—79)



1. In a machine of the character described, coiling means for forming coil springs, mechanism for deflecting a portion of an end coil of a spring being formed across a contiguous coil comprising means for prying said end coil across said contiguous coil, and means for retracting said prying means to a zone clear of said spring coiling means.

2,161,085
TREATMENT OF WELLS

William Clifton Phalen, Syracuse, N. Y., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York

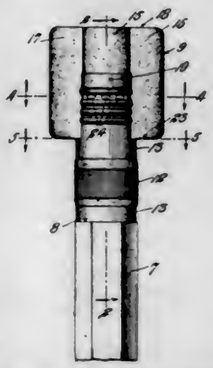
No Drawing. Application December 22, 1937, Serial No. 181,104
7 Claims. (Cl. 166—21)

1. A process adapted for increasing the production of wells in acid-treated, fine-grained, silicate-containing, calcareous formations, which comprises introducing into the formation sufficient alkali-metal hydroxide solution to react with and dissolve a substantial proportion of the residue left by the acid treatment.

2,161,086
ERASER FOR PENCIL AND HOLDING TIP THEREFOR

Michael Pipi, Jersey City, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey

Application January 18, 1938, Serial No. 185,483
2 Claims. (Cl. 120—38)

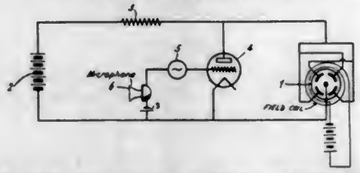


1. An eraser attachment for pencils comprising an eraser element of substantially rectangular formation consisting of a cylindrical middle portion and two wing portions projecting laterally from opposite sides of the cylindrical portion, said wing portions being of less thickness than the cylindrical portion of the eraser, the cylindrical middle portion being coextensive with the length of the two wing portions and a cylindrical ferrule the inner end of which is adapted to be secured on one end of the pencil, the outer end of the ferrule projecting beyond the end of the pencil being provided with a longitudinal slot of substantially the same width as the thickness of the wing portions of the eraser to provide a pair of eraser clamping arms of arcuate formation in cross section, so that said wing portions may be received in the slot and the cylindrical portion of the eraser within the outer arcuate clamping arms of the ferrule with the clamping arms acting to prevent movement of the eraser element laterally thereof.

2,161,087
OSCILLATOR OF THE MAGNETRON TYPE

Klaas Posthumus and Carl G. A. von Lindern, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application December 17, 1935, Serial No. 54,862
In the Netherlands December 17, 1934
3 Claims. (Cl. 179—171)

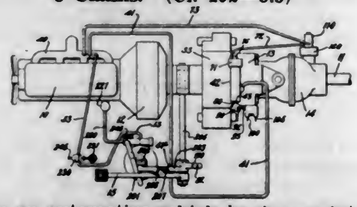


3. A high frequency oscillator comprising an electron discharge tube of the magnetron type, including a linear cathode and a plurality of surrounding segmented anodes, a resonant circuit system connected across the anode segments, a source of operating potential and an impedance connected between the cathode and said resonant circuit system, means for rendering said oscillator substantially intermittent in its operation, said means comprising a discharge tube having a discharge path in shunt with the discharge path of said oscillator tube, and means including a source of low frequency modulation potentials superposed upon a source of intermediate frequency potentials, said means being applied to an input circuit for the second said discharge tube for alternately blocking said tube and rendering the same conductive, thereby to control the anode voltage applied to said oscillator over a range sufficient to cause said intermittent oscillatory operation.

2,161,088
AUTOMOTIVE MECHANISM

Frank C. Reilly, New York, and Philip M. Carter, White Plains, N. Y., and Douglas F. Linsley, Norwalk, Conn., assignors to Vaco Products, Inc., a corporation of Delaware

Application October 3, 1935, Serial No. 43,364
8 Claims. (Cl. 192—3.5)



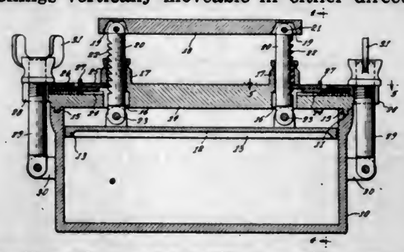
4. In an automotive vehicle having an internal combustion engine, a clutch, a shiftable gear transmission, fluid pressure means for shifting said gears and a clutch controlled valve for controlling the application of pressure to said shifting means, the combination of a power cylinder for actuating the clutch, a manual control for controlling disengagement of the clutch by said cylinder, a detent holding the control in disengaging position and means operated by disengagement of the clutch for releasing said clutch.

2,161,089
HAM BOILER

Hans Reinwald, New York, N. Y.

Application December 10, 1938, Serial No. 244,889
3 Claims. (Cl. 53—22)

1. A ham boiler comprising a container open at the top and having a press board vertically slidable therein, a cover having means for clamping the same on the container, said cover having spaced apart openings therethrough, studs in said openings vertically moveable in either direction

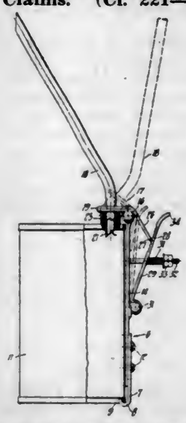


therethrough, means partly on said cover and partly on said studs for releasably locking said studs in said openings intermediate their length, the lower ends of said studs being pivotally secured to said board.

2,161,090
DISPENSING APPARATUS

Paul H. Richert, Fresno, Calif., assignor to Neil A. Maclean, San Francisco, Calif.

Application November 19, 1938, Serial No. 241,475
3 Claims. (Cl. 221—23)



1. A device for dispensing a fluid under pressure in a can having opposite ends comprising a first means for engaging one can end, a second means engaging the other can end, including a pawl and a ratchet retaining said second engaging means in engagement with said other can end, said second engaging means including a can end piercing means and a gasket surrounding said piercing means and forcibly retained against said can end by engagement of said pawl and said ratchet.

2,161,091
CHECK SEPARATOR

David C. Rockola, Chicago, Ill.

Application September 28, 1936, Serial No. 102,916
7 Claims. (Cl. 194—102)

1. In a coin separator, a coin slide structure comprising means for receiving and discharging a token or coin therefrom, a pair of coin receiving means, a chute pivotally mounted beneath said structure and provided with an aperture therein disposed in the path of coins discharged

from said slide structure and of a size to enable tokens or coins of less than predetermined size to pass therethrough into one of said receiving means, means for holding said chute substantially horizontal while in coin receiving position, and



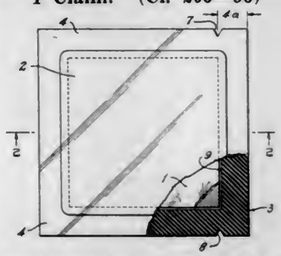
means for tilting said chute for effecting the gravitational discharge from the free end thereof into said other receiving means of a token or coin deposited by said structure in said chute of a size incapable of passing through said aperture.

2,161,092
PROCESS AND MACHINE FOR MAKING COMPOSITE CREPED PRODUCTS
William Wallace Rowe, Cincinnati, Ohio, assignor to The Paper Service Company, Lockland, Ohio, a corporation of Ohio
Application August 5, 1935, Serial No. 34,689
13 Claims. (Cl. 154—33)



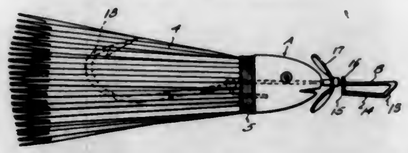
1. In combination, a creping cylinder and a creping knife, means for individually coating a plurality of webs with adhesive substances, means for leading said webs at interspaced points to said cylinder and against each other and means for pressing said webs against said cylinder so as to form a composite web thereon, said doctor being shaped to produce creping crinkles in said composite web at other than a right angle to its major axis, a second creping cylinder, means for pressing said composite web into contact therewith, and a second creping doctor shaped to produce creping crinkles in said composite web at other than a right angle to its major axis, said last mentioned crinkles being directed oppositely to said first mentioned crinkles.

2,161,093
RUBBER PACKAGE FABRICATION
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application November 21, 1936, Serial No. 112,112
1 Claim. (Cl. 206—56)



A package for a substantially rigid article, comprising a casing having thin walls of elastic rubber composition stretched around all sides of said article and being closely adjacent all surfaces of the article, and an integrally joined molded flange surrounding the article in approximately a central plane thereof and being of substantial width and of a thickness substantially greater than the thickness of said walls, said flange being relatively stiff so as to reenforce the package, distribute stresses in said walls to maintain the walls under uniform tension and restrain warping or twisting of the walls and provide a tearing tab to facilitate tearing of said walls along the juncture of said flange with the walls to open the package.

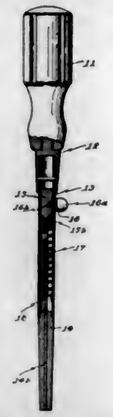
2,161,094
FISH LURE
Walter Conway Saunders, Jr., Richmond, Va.
Application July 13, 1937, Serial No. 153,436
Renewed April 7, 1939
1 Claim. (Cl. 43—42)



A fish lure of the class described comprising a head, a rod passing longitudinally therethrough and having its rear end first bent to provide an outwardly and forwardly extending part and then bent to provide a forwardly extending straight part, the rear end of the body having a hole therein, a weight in the hole having a hole therein for receiving said straight part when the rod is in its forward position and said straight part leaving the hole in the weight when the rod is in its rearward position whereby the eye of a fish hook can be placed over the straight part to engage the first bent part, the front end of the rod being first bent to provide a rearwardly and outwardly extending part for receiving a line, then a rearwardly extending part which is bent at right angles and then bent into hook shape to engage a portion of the front part of the rod in a detachable manner and a spinner having its hub rotatably arranged on that part of the rod between the hook-shaped portion and the front end of the body the outwardly and forwardly extending part at the rear of the rod and the rearwardly and outwardly extending part at the front of the rod acting to hold the line and the eye of the fish hook in alignment.

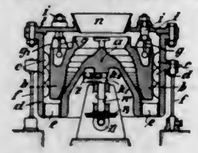
2,161,095
SCREW DRIVER
Charles S. Schaffer, Chicago, Ill.
Application July 24, 1936, Serial No. 92,352
4 Claims. (Cl. 145—50)

1. In a screw driver adapted to hold a screw while being inserted, the combination of an end adapted to be gripped, a hollow cylinder forming a casing and having a substantially L-shaped slot in the side thereof, the topmost portion of said slot extending rearwardly parallel to the axis of said hollow cylinder and forming a recess extending rearwardly, a manually operable lever extending through said slot and fastened to a plug in said cylinder and rotatable and retractable in said cylinder within the limits defined by said L-shaped slot, a coil spring in said cylinder fastened at one end to said plug forwardly thereof and at the other end to the internal surface of said cylinder imparting resilient movement to said plug, an end portion attached to said cylinder having a wedge-shaped bit forming a main bit adapted to contact a screw kerf and having a longitudinal central bore therethrough and a secondary bit in said bore extending longitudinally therein axially through said spring in said cylinder and fastened to said plug in said cylinder and rotatable and retractable therein in conjunction with the like movement of the spring



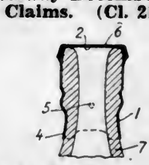
controlled plug and the manually operable lever said secondary bit being coterminate with the end of said main bit in most extended position and retracted therein when the manually operable lever is placed in the rearwardmost portion of said L-shaped slot.

2,161,096
CONICAL-TYPE STONE CRUSHER
Georg Heinrich Schieferstein, Berlin-Charlottenburg, Germany
Application March 22, 1937, Serial No. 132,387
In Germany March 23, 1936
10 Claims. (Cl. 83—10)



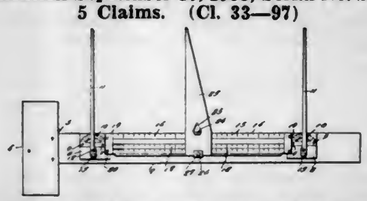
1. A conical type stone crusher comprising an inner crushing mass consisting of an externally conical member, an outer casing attached to said member, said casing including a wall portion surrounding said member in laterally spaced relation thereto, an outer crushing mass interposed between said wall and said member, said outer mass having an outer periphery substantially parallel to the inner periphery of said wall, said outer mass having a flared bore receiving said member and providing a crushing surface, substantially semispherical resilient members interposed between the outer periphery of said outer mass and said wall, means mounting each of said crushing masses for free and arcuate swinging independent of the other, driving means for imparting a circular swinging movement to one of said masses, a loose coupling connecting said driving means to said driven mass, said resilient members comprising means for transmitting the swinging movement of said driven mass to said other mass, the weights of said masses having a ratio to each other to permit said movement to be transmitted with a phase displacement of 180° whereby a crushing movement of said two masses is produced.

2,161,097
CLOSURE FOR BOTTLES AND THE LIKE
Thorolf Schröder-Nielsen, Horten, Norway
Application October 20, 1936, Serial No. 106,622
In Norway December 14, 1935
3 Claims. (Cl. 215—41)



1. A closure for bottles comprising an elastic member adapted to embrace the neck of a bottle, said elastic member consisting of a short length of cylindrical rubber tubing having a wall of uniform thickness, a rigid cap member adapted to close the upper end of said elastic member and provided with a downwardly extending peripheral flange, and a second rigid cap member concentric with said first cap member and having a downwardly extending peripheral flange, the upper edge of said elastic member being gripped between said flanges, said first cap member being adapted to embrace the head of a bottle with clearance between the same and the said flange on said cap member.

2,161,098
COMBINATION DRAFTING TOOL
Adolph Sclocco, Trenton, N. J.
Application September 30, 1938, Serial No. 232,655
5 Claims. (Cl. 33—97)

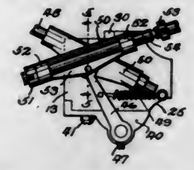


1. In a tool of the class described, a T-square, a pair of longitudinally spaced blocks mounted on one face of the blade of the square, a graduated straight edge having its ends connected with the blocks and extending longitudinally of the blade in spaced relation to the blade, protractors mounted on said blocks at opposite ends of the straight edge, index arms for the protractors pivotally mounted on the blocks in operative position to the protractors, a second rule extending at right angles to said straight edge, and a clamp device engaging the second rule and the straight edge for securing the second rule to the straight edge for sliding movement therealong and for securing the second rule at the desired position of adjustment relative to the straight edge.

2,161,099
HOLDING VALVE
James N. Shuey, Everett, Wash.
Application February 4, 1938, Serial No. 188,698
2 Claims. (Cl. 192—13)

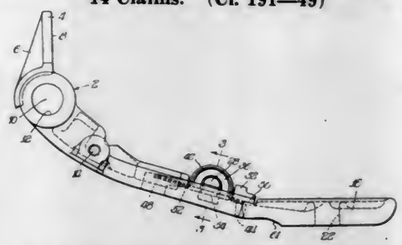
1. In a holding valve for hydraulic brakes, the combination with the brake and clutch levers of an automobile engine and a hydraulic braking mechanism, of an integral body portion provided with a directionally aligned inlet and outlet passageway, a valve chamber formed in said body, and positioned perpendicular to said passageway, and in communication therewith, and provided with a screw cap closure, a check valve contained

in said chamber to normally close communication between said chamber and said passageway, a valve lifter disposed in register with said check valve and provided with an extended end, a packing chamber formed in said body in aligned relation to said valve chamber and provided with an



adjustably mounted gland adapted to guide said lifter, a removable cam bearing mounting removably secured to said body portion and adapted to cover said gland, a cam rockably mounted in said bearing mounting in engagement with the extended push rod of said lifter and attached to and operable by the clutch mechanism.

2,161,100
THIRD RAIL CONTACT SHOE
Raymond H. Sierk, Whitestone, N. Y.
Application October 10, 1938, Serial No. 234,105
14 Claims. (Cl. 191—49)



1. In a two-piece current collector for third rails of electric railways, a car truck member, a fulcrum member pivotally connected thereto, and a wear pad resiliently connected to said fulcrum member, said connection comprising a tongue and groove arrangement wherein a tongue on said wear pad is received within a groove in said fulcrum member, said tongue having a transverse key way and said fulcrum member having a key seat, a key received in said key way and positioned on said seat, and resilient means for retaining said parts in assembled relationship, said resilient means being in the form of a plurality of metal springs having bearings in said groove adjacent the opposite ends thereof and having an intermediate bearing adjacent the end of said tongue.

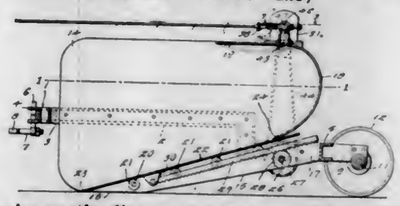
2,161,101
DOOR CLOSER AND CHECK
James H. Simms, Kansas City, Mo.
Application January 3, 1938, Serial No. 183,011
7 Claims. (Cl. 16—51)

1. A door closer and check comprising a cylinder; a piston rod extending into said cylinder and having a tubular piston carried thereby for limited longitudinal movement thereto, said rod being positioned to close the opening through said tubular piston on its inward stroke and to be positioned away from said opening on the outward stroke to permit the flow of fluid through said tubular piston; a by-pass adjustable to regulate the rate of flow of a fluid in said cylinder from one side to the other side of said piston as the piston is moved inwardly; and a tension spring joining together said rod and cylinder



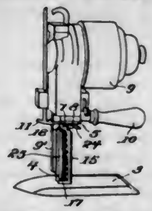
whereby said piston and rod are normally maintained at the end of this inward stroke.

2,161,102
EARTH SCRAPER AND DIGGER
Earl C. Smith, Malin, Oreg.
Application May 7, 1938, Serial No. 206,689
14 Claims. (Cl. 37—129)



1. An earth digger and scraper of the character described, comprising a body structure adapted to be drawn over the ground and having side walls and an open front, a ground engaging blade supported in the lower part of the body structure between said walls and having a forwardly directed cutting edge, the blade forming the bottom of the body and having a rearward and upward inclination, and means for shifting said blade forwardly or rearwardly with respect to the body for regulating the depth of penetration of the cutting edge into the earth, the lower edges of the side walls contacting the earth when the blade is at maximum penetration.

2,161,103
CLOTH CUTTING MACHINE STANDARD PROTECTOR
Francisco Sivila Smith, Mayaguez, P. R.
Application September 27, 1938, Serial No. 232,004
3 Claims. (Cl. 51—274)

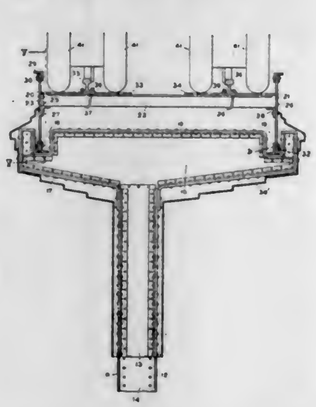


3. A device for facilitating the sharpening of the knife of a cloth cutting machine without dismounting said knife, comprising, a member adapted to embrace the standard of said machine, and spaced rollers rotatably carried by said member and adapted for lateral positioning in relation to said knife and coacting with the latter to engage a grinding tool and maintain said tool spaced from said standard during the sharpening of said knife by said tool.

2,161,104
METALLIC COATING MATERIAL AND METHOD OF APPLYING THE SAME
George S. Smith, Oakland, Calif.
No Drawing. Application November 13, 1936, Serial No. 110,774
6 Claims. (Cl. 91—68)

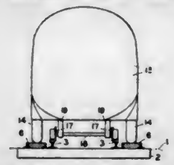
2. The process of producing a metal-like coating comprising metal particles bound by insoluble inorganic oxygen compounds which comprise mixing zinc dust with a solution of inorganic salts in such proportion as to be capable of reacting with the zinc and oxygen to form the said compounds on a surface, coating the mixture onto the surface, and then exposing the coated surface to the air while maintaining the coated surface under conditions favorable to the formation of the aforementioned oxygen compounds until the coating is formed.

2,161,105
RAPID TRANSIT SYSTEM
Joseph B. Strauss, San Francisco, Calif.; Annette Strauss, John Sparks, and Henry Clausen, executors of said Joseph B. Strauss, deceased
Application March 23, 1937, Serial No. 132,509
1 Claim. (Cl. 104—124)



A traffic structure comprising a pair of vertical plate girders; interspaced transverse bars having their opposite ends fixed to the sides of said girders respectively, and forming a deck above the vertical centers of said girders; a pair of traction plates arranged on said deck adjacent said girders; railway rails mounted on the transverse center portions of said plates respectively; and rail-anchoring means comprising yokes looped under said bars and having their opposite ends extending through said traction plates and engaging the bases of said rails respectively.

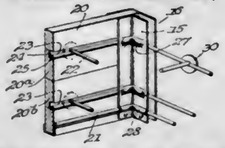
2,161,106
DUAL TRAFFICWAY
Joseph B. Strauss, San Francisco, Calif.; Annette Strauss, John Sparks, and Henry C. Clausen executors of said Joseph B. Strauss, deceased
Application November 9, 1937, Serial No. 173,620
3 Claims. (Cl. 238—5)



1. A duplex trafficway including the road bed and ballasted cross-ties and parallel rails of a conventional railway track; reinforced concrete runways adjacent and colinear with said rails, said runways composed of independent end spaced sections, each section having lateral metal angle bar sides, one of said bars having a continuous lateral flange extending across and spiked to said cross-ties for easy placement and removal of said sections relative to said rails.

2. A trafficway including a base; and parallel interspaced runways consisting of prefabricated concrete sections laid end to end and having an angle bar forming one lateral side and an inverted T bar forming the other lateral side of each section.

2,161,107
CONTAINER STRUCTURE
Donald R. Swingle, Chattanooga, Tenn., assignor to Cumberland Case Co., Chattanooga, Tenn., a corporation of Tennessee
Application December 3, 1937, Serial No. 177,984
2 Claims. (Cl. 217—19)

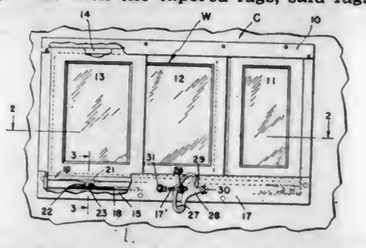


2. The combination in a box-like structure including side and end walls formed of slat members, of an article-engaging grid including a bounding member encircling its perimeter, planar elements rigidly secured to and spaced along the bounding member and extending substantially perpendicular to the plane of the grid, one row of slat members of the side and end walls having an inner edge grooved to receive the bounding member of the grid, said row of slat members and the row of slat members adjacent the grooved edge thereof having aligned pockets in their opposite horizontal edges adjacent the grooves adapted to cooperate to enclose the planar elements, the pockets being spaced inwardly from each exterior surface of the slat members to hold the grid rigid with the walls.

2,161,108
LOCOMOTIVE CAB WINDOW
Henry H. Thomas, Clinton, Iowa
Application September 7, 1937, Serial No. 162,713
3 Claims. (Cl. 20—52.6)

1. In a window having a pair of sliding sashes, a single guide member therefor movable toward and away from the sashes, a longitudinally movable shift bar, tapered lugs on the guide member, bearing members carried by the shift bar

movable into and out of engagement with the tapered lugs, and means for moving the shift bar to bring the bearing members into and out of engagement with the tapered lugs, said lugs be-



ing curved transversely, and said bearing members being adapted to engage on opposite sides of the lugs whereby the guide member can rock transversely to compensate for variations in size in the sash.

2,161,109
ASHTRAY
Henry John Thomas, Gorseinon, Swansea, South Wales
Application March 28, 1935, Serial No. 13,546
In Great Britain March 28, 1934
4 Claims. (Cl. 131—51)

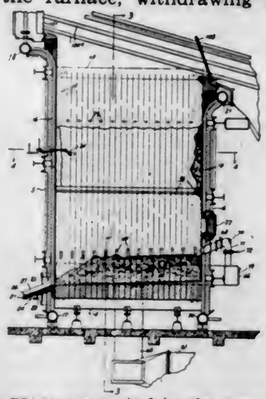


1. In an ashtray, a support, and a strip of metal foil having portions secured at the edges of the support, said strip being spaced throughout its length above the bottom of the support so that a burning cigarette resting thereon will burn substantially uniformly and without acquiring a deposit of moisture thereon.

2,161,110
METHOD OF AND APPARATUS FOR BURNING WASTE LIQUOR
George H. Tomlinson, Westmount, Quebec, Canada, and Leslie S. Wilcoxson, Ridgewood, N. J.; said Leslie S. Wilcoxson assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application May 16, 1935, Serial No. 21,836
28 Claims. (Cl. 23—48)

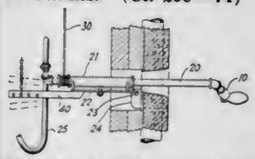
1. A process of recovering chemicals and heat in a vertical recovery furnace from liquor containing inorganic chemicals and combustible organic matter which comprises introducing the liquor in a relatively flat spray directed across the furnace and of a character such that a major portion of the spray particles impact on and adhere to a vertical arresting surface exposed to the temperature conditions in the furnace after passing through and being heated by an ascending stream of high temperature gases sufficiently to put the spray particles when impacting in a sticky condition, and continuously oscillating the spray vertically to deposit the spray particles in successive layers on the arresting surface.

25. A process of treating paper pulp residual liquor which comprises introducing the liquor into a recovery furnace in a spray directed across the upper section of the furnace and formed of spray particles of a character such that a major portion of the spray particles impact on an arresting surface in the upper section of the furnace after passing through and being heated by an ascending stream of high temperature gases sufficiently to put the spray particles when impacting in a sticky condition and to cause spray particles to deposit on the arresting surface in an adhering mass from which dehydrated portions separate and are burned in the lower section of the furnace, withdrawing the high



temperature gases generated in the lower section of the furnace from the upper section of the furnace after contactng with liquor being sprayed across the upper section of the furnace, and varying the path of travel of the spray across the upper section of the furnace to shift the area of spray deposition on the arresting surface.

2,161,111
SPRAY NOZZLE
Leslie S. Wilcoxson, Ridgewood, and Frederic G. Ely, Chatham, N. J., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application May 25, 1935, Serial No. 23,406
16 Claims. (Cl. 299—74)

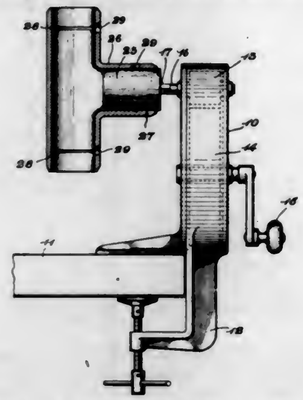


5. In combination, a spray nozzle comprising an inclined discharge pipe, a spreader plate spaced from the lower end of said discharge pipe and having a flat upper surface arranged in the path of discharge of and at an acute angle to the axis of said discharge pipe, and a circular hood surrounding and projecting beyond the lower end of said discharge pipe, one circumferential portion of the lower end of said hood being in contact with and welded to said spreader plate with the remaining circumferential portion in a transverse plane intersecting said spreader plate adjacent the point of intersection of the axis of said discharge pipe, and means for simultaneously oscillating said spray nozzle about a vertical axis, a transverse horizontal axis and a longitudinal axis.

2,161,112
ABRADING APPARATUS
Louis B. Tuchmann and Sidney Joe Tuchmann, Norfolk, Va.
Application April 7, 1938, Serial No. 200,735
5 Claims. (Cl. 51—194)

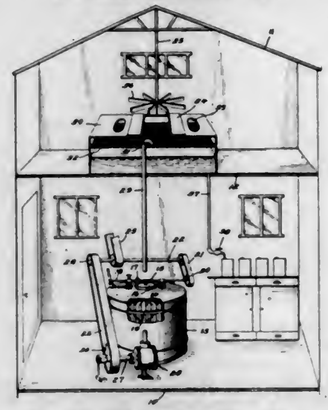
1. In an apparatus for use in the cleaning of

inner surfaces of metal pipe fittings, a body portion generally circular in cross section, a generally spiral shaped leaf spring member generally encircling said body portion and secured thereto at one of its ends, the other end of said spring member being free, said spring member being spaced from said body portion along its length except at that end which is secured there-



to, a sheet of abrasive material comprising a sheet body portion and an end portion, said end portion including a section folded back parallel to the sheet body portion, said end portion engaging the free end of said spring member and said sheet body portion overlying at least a portion of the exterior surface of said spring member.

2,161,113
DEVICE FOR TREATING HONEY
Theodore Turchenko, Lisle, Ill.
Application April 3, 1937, Serial No. 134,817
1 Claim. (Cl. 159—16)



A honey treating apparatus comprising, in combination, an enclosure, a honey extractor arranged in the lower portion of said enclosure, a honey dehydrating and treating device arranged in the upper portion of said enclosure, a pipe connecting said honey dehydrating and treating device with said extractor, means for forcing the honey through said pipe from said extractor into said honey dehydrating and treating device, means for blowing the warmer air from the upper portion of said enclosure upon the honey as it is discharged into said honey dehydrating and treating device, and a valved outlet pipe depending from said honey dehydrating and treating device into the lower portion of said enclosure for dispensing the treated honey from said device.

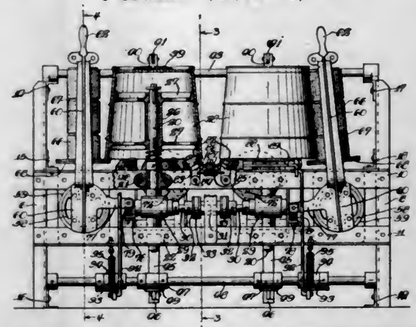
2,161,114
SOLUBLE DOUBLE SALTS OF THEOPHYLLINE AND MONOAMINO POLYHYDRIC ALCOHOLS
Ernest H. Volwiler, Highland Park, and Edmond E. Moore, Waukegan, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
No Drawing. Application October 17, 1935, Serial No. 45,432
4 Claims. (Cl. 260—211)

1. A soluble double salt of theophylline and monoamino polyhydric alcohol having the general formula

$$C_7H_8(CH_3)_2O_2N_4.CH_2OH(CHOH)_xCH_2N\begin{matrix}R_1\\R_2\end{matrix}$$

where x is at least one and where R_1 and R_2 are selected from the group consisting of hydrogen, alkyl and hydroxy alkyl groups, said salt having diuretic properties.

2,161,115
MACHINE FOR MAKING TUBS AND THE LIKE
Axel M. Walstrom, Minneapolis, Minn., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a corporation of Illinois
Application September 29, 1938, Serial No. 232,296
6 Claims. (Cl. 51—3)

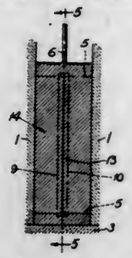


1. Apparatus of the class described comprising in combination, means for supporting and rotating a container of hoop bound stave construction, rotary abrasive means for finishing the outer surface of said container, said abrasive means having a series of spaced cylindrical abrasive bands and an abrasive disc, and a swingable support for said abrasive means, said support in one position causing said disc to contact an end of said container, and in another position causing said bands to contact the side surfaces of said container between said hoops.

2,161,116
STEEL SHEET AND PLATE AND THE MANUFACTURE THEREOF
Francis Guy White, University City, Mo., assignor to Granite City Steel Company, Granite City, Ill., a corporation of Delaware
Application December 20, 1934, Serial No. 758,390
1 Claim. (Cl. 29—189)

The method of manufacturing low-carbon

sheet and plate steel having at least one chromatized surface comprising: interposing a layer of an oxygen compound of chromium between two low-carbon steel plates, casting an ingot of low-carbon steel around said plates in such manner that said plates are fused sub-



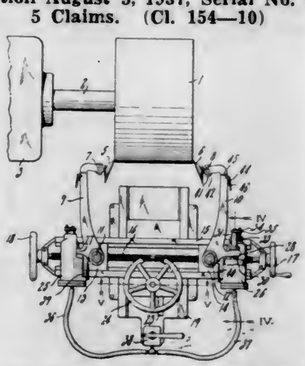
stantially indistinguishably into said ingot, said layer, however, separating said ingot into sections, rolling said ingot to the desired thickness, and separating said sections as determined by said layer, whereby the low-carbon steel surfaces in contact with said layer are chromatized.

2,161,117

TIRE STITCHING APPARATUS

George F. Wikle, Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 5, 1937, Serial No. 157,583
5 Claims. (Cl. 154—10)



1. In a tire building machine, the combination with a tire building drum of a stitching means comprising a pair of stitcher wheels, means for moving the stitcher wheels radially of the drum, stitcher wheel supporting arms mounted for pivotal movement in the plane of the drum axis, a support for each pivot, means for moving the pivot supports lengthwise of the drum, and cushioning means cooperating with the arms for regulating their movements about the pivots.

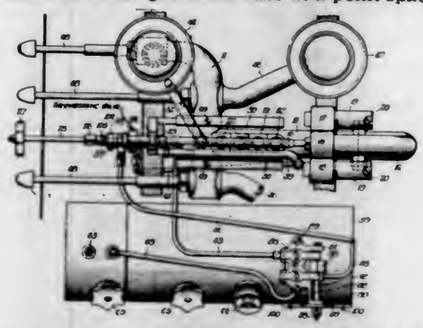
2,161,118

STOVE CONSTRUCTION

Anton J. Yeager, Wisconsin Rapids, Wis., assignor to Prentiss-Wabers Products Co., Wisconsin Rapids, Wis., a corporation of Wisconsin

Application February 13, 1937, Serial No. 125,566
3 Claims. (Cl. 158—81)

1. A kerosene vapor stove comprising, in combination, a mixing tube, heater burners associated with said mixing tube, a manifold to which said mixing tube is connected, stove burners connected to said manifold, a generator tube connected to said mixing tube extending parallel with said mixing tube and extending over the heater burners, a needle valve in said generator tube, a preheater tube extending parallel with said generator tube and over the heater burners, the preheater tube having an intake end and a discharge end, the discharge end being directly connected to the generator tube at a point spaced



from the mixing tube, a pressure fuel tank having a plurality of compartments therein, a fuel conduit leading from one of said pressure tank compartments direct to the generator tube, a second fuel conduit leading to the intake end of said preheater tube, valves in said fuel conduits, and common control means for said valves whereby one only of said valves may be opened at one time.

2,161,119

RICE CANNING PROCESS

Nicholas C. Coan, Houston, Tex.

No Drawing. Application September 26, 1938, Serial No. 231,758
2 Claims. (Cl. 99—186)

1. A process for preparation of canned rice which comprises subjecting rice to preliminary cooking in boiling water for about 15 minutes, washing the rice with hot water to remove water soluble materials coating the rice, drying the washed rice in a dry atmosphere for about 10 minutes at about 170° F. to reduce the moisture content thereof to about one half of the total moisture which it is initially capable of taking up, packing the hot partially dried rice in a can, sealing the can and cooking the rice in the sealed can to complete the cooking operation.

2,161,120

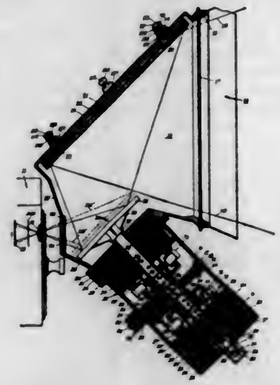
ELECTRICAL APPARATUS FOR CHANGING THE LENGTH OF AND DISPLACEMENT OF THE OPTICAL AXIS IN CINEMATOGRAPHY

William F. Alder, Altadena, Calif.

Application December 13, 1934, Serial No. 757,312
11 Claims. (Cl. 88—16.6)

1. In a device as described, the combination of a supporting table having a first set of guide ways, a motion picture camera laterally movable thereon, a second set of guide ways, a mirror mounting adjustably mounted on the second set of guide ways, such mirror mounting having a fixed and reciprocating mirror, an electric motor attached to the mirror mounting and operative to reciprocate the reciprocating mirror, the said mirror mounting having an opening alignable with the lens of the camera, the camera having a shaft, the supporting table having a housing with a commutator therein, a drive from the camera

shaft to the commutator and an electric circuit for the electric motor including a field coil and a



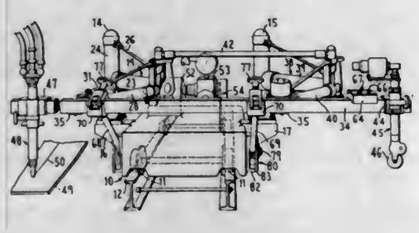
moving secondary coil, the secondary coil having in its circuit a commutator, a rheostat, and an ammeter.

2,161,121

CUTTING OR WELDING MACHINE

James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application February 10, 1938, Serial No. 189,815
16 Claims. (Cl. 266—23)



1. Cutting or welding apparatus including a carriage body with wheels on which it is supported, a motor on the carriage body operatively connected with one or more of the wheels, a centrifugal governor connected in the motor circuit and driven by the motor, and a power-operated device connected with the governor for adjusting the governor to change the speed to which the governor holds the motor.

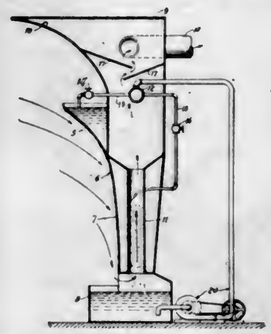
2,161,122

METHOD OF TREATING WASTE SPRAY PARTICLES

Lural J. Anderson, South Bend, Ind., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois

Application October 8, 1937, Serial No. 167,946
3 Claims. (Cl. 183—121)

1. The method of treating the waste particles developed in a spraying operation utilizing synthetic paint type materials, paints, lacquers, and the like, which consists in bringing the particle laden air into contact with a scrubbing water containing sufficient aluminum salt and an alkali sufficient only to produce a substantially insoluble metallic compound, whereby coalescence of the



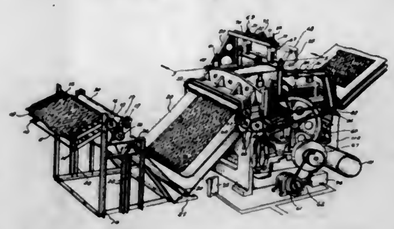
waste particles is prevented and coagulation is caused.

2,161,123

PAD FORMING APPARATUS

Clarence W. Avery and James Vehko, Detroit, Mich., assignors to The Murray Corporation of America, a corporation of Delaware

Application April 27, 1936, Serial No. 76,633
12 Claims. (Cl. 164—20)



1. Apparatus of the class described comprising a continuously operated conveyor for feeding a continuous web of material toward a blanking press, a conveyor for feeding said web from said first mentioned conveyor into said blanking press, continuous means for driving one end of said second conveyor synchronously with said first conveyor, and intermittent means for driving the opposite end of said second conveyor in synchronism with the operation of said blanking press.

2,161,124

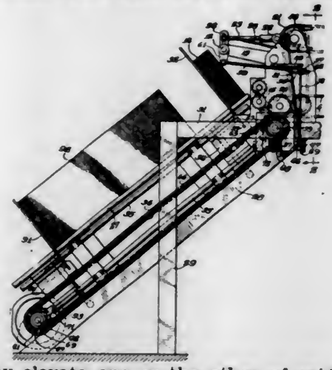
SHEET-FEEDING MECHANISM

George A. Babicz, Chicago, Ill., assignor to Gaw-O'Hara Envelope Co., Chicago, Ill., a corporation of Illinois

Application January 10, 1938, Serial No. 184,212
6 Claims. (Cl. 271—62)

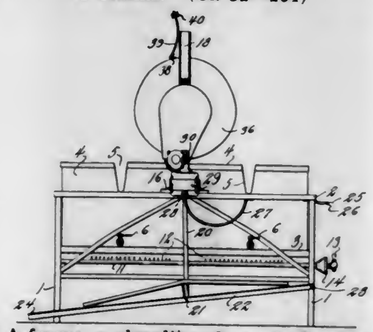
1. In a sheet feeding mechanism, the combination of an inclined frame structure, transversely extending shafts mounted at the upper and lower ends respectively of said structure, two sets of sprocket wheels mounted on each shaft, chains connecting the sprocket wheels of each set on the respective shafts, the sprocket wheels of one set being fixed to the upper shaft and the sprocket wheels of the other set being fixed to the lower shaft, a plurality of stack-supporting plates, each plate being detachably mounted on one set of chains and free from the other set of chains, mechanism for rotating said

shafts, and means for selectively connecting said mechanism with said shafts in alternation to



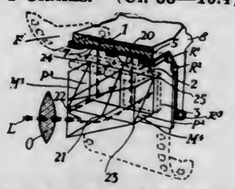
thereby elevate one or the other of said stack-supporting plates.

2,161,125
MOTOR VEHICLE BRAKE SHOE REFINISHER
Harry K. Bigelow, Columbus, Ohio
Application March 8, 1937, Serial No. 129,668
4 Claims. (Cl. 51—164)



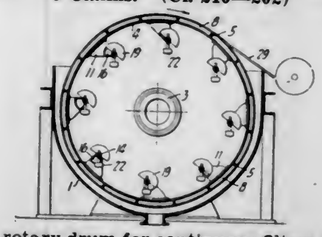
1. A frame, a plurality of vessels fixed in position by the frame, a drum movably carried by the frame to shift into different vessels, and a drum rotating drive independent of the vessels and frame.

2,161,126
APPARATUS FOR PHOTOGRAPHY AND PROJECTION
Harold H. Bigley, Chatham, N. J., assignor of twenty-five percent to James N. Catlow, New York, N. Y.
Application September 16, 1935, Serial No. 40,723
4 Claims. (Cl. 88—16.4)



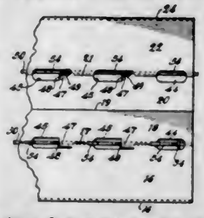
1. In the art of cinematography, a unitary plate structure embodying a pair of plates angularly disposed to each other, said plates having exposure apertures therein, filters adapted to cover said apertures, means for holding said filters in said aperture plates, means adapted to split an image bearing beam of light into two horizontal beams, and means adapted to split each of said horizontal beams into a horizontal beam and a vertical beam and project the split beams selectively through said filters, means to support a film over said angularly disposed filters and adapt it to receive the split image bearing beams, anti-friction means carried by the aperture plate structure over which the film is adapted to pass, and a yoke cooperating with said aperture plate structure, to guide the film in its progress over said plates.

2,161,127
FILTER
Clarence Bliss Bowman, Oakland, Calif., assignor to Oliver United Filters Incorporated, San Francisco, Calif., a corporation of Nevada
Application January 11, 1937, Serial No. 119,916
9 Claims. (Cl. 210—202)



1. A rotary drum for continuous filters provided on its outer surface with independent filtrate compartments, each compartment having an opening formed in its floor; a valve body secured at its inner end to each of said compartments in registration with the opening therein; a port formed in the side of each of said bodies; a stem journaled in the outer end of said body at right angles to its port; a gate secured to said stem and adapted to register with said port once during each revolution of said drum; and means associated with said gate for maintaining it in a predetermined position with respect to the axis of said stem.

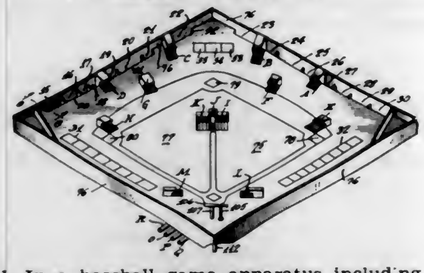
2,161,128
CARTON STRUCTURE
Robert B. Boyle, Chicago, Ill., assignor, by mesne assignments, to Consolidated Carton, Inc., Chicago, Ill., a corporation of Illinois
Application November 11, 1937, Serial No. 174,043
5 Claims. (Cl. 229—29)



1. In a carton for eggs and the like having a panel cut to provide a series of down-foldable flaps which in down-folded position provide parallel transverse partitions in the carton, the combination therewith of a separate insertable longitudinal partition having an intersecting relation with said cross-walls to divide the carton into cells, a tongue on the bottom of said partition with a lateral notch therein, and a bottom panel beneath said transverse partitions defining the bottoms of said cells, said bottom having an elongated open narrow slot therein to receive the tongue with said notch engaging one end of the slot, the slot having a straight-line side

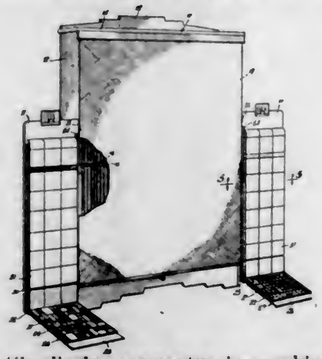
parallel with the normal position of the partition, said slot also having a shorter open length and a cut extending said straight-line side of the slot to give the slot a longer length, and a tab formed thereby at the end of the slot, said tab having a right angle corner formed by said cut and by the end of the shorter length of slot, the tongue having its greatest width less than the longer length of the slot and greater than the shorter length of the slot, and having its width at the notch not greater than the shorter length of the slot, whereby the tongue may be inserted in the longer slot and moved longitudinally therein and then laterally to be held therein by said tab.

2,161,129
GAME
Marvin H. Brook, Chicago, Ill.
Application May 18, 1936, Serial No. 80,373
7 Claims. (Cl. 273—89)



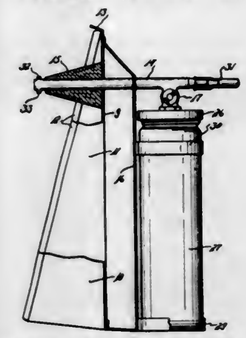
1. In a baseball game apparatus including a ball made of conductive material, individual signal members, ball receiving pockets, each of said pockets provided with a plurality of pairs of segments, each of which pairs of segments are connected in electrical circuit to separate signal members, said segments being so positioned that a particular circuit may be closed by the ball in said pocket whereby a signal member will be actuated, a manually operated switch adapted to change the circuit from said pocket to said signal members so that other of said individual signal members will be actuated when said pocket circuit is subsequently closed.

2,161,130
CABINET FOR DISPLAYING BUILDING TILE
Charles H. Burchenal, Glendale, Ohio, assignor to The Cambridge Tile Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application June 21, 1937, Serial No. 149,309
1 Claim. (Cl. 35—53)



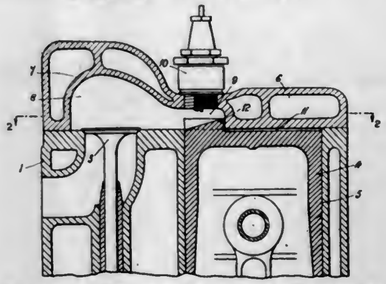
In a tile display apparatus in combination, a main body section constituting a base structure, wing panels hinged to the respective opposite side edges of said body, adapted to be folded against the side of the body when not in use, and extended parallel with the face thereof when in use, floor panels adjustably attached to the lower edges of the respective wing panels and adapted to be extended forwardly thereof, each of said panels including means for supporting tile sections thereon whereby the wall and floor relationship of tile may be displayed for the purpose of giving the actual effect.

2,161,131
DEGREASING AND FLUSHING DEVICE
George Franklyn Burger, Detroit, Mich.
Application May 24, 1937, Serial No. 144,465
8 Claims. (Cl. 184—1.5)



1. A degreasing device of the class described, comprising: a shield forming body; deflecting side walls on said body; a delivery conduit projected through said body adjacent one end thereof and fixed thereto; a tapered plug embracing said conduit, the tapered end of said plug projecting outwardly from one face of said shield forming body, said conduit being projected through said shield forming body between said walls; a liquid receptacle; means for mounting said receptacle on said shield forming body; means for establishing communication of said receptacle with said conduit for conducting liquid from said receptacle to said conduit; and means for controlling the delivery of liquid from said receptacle to said conduit.

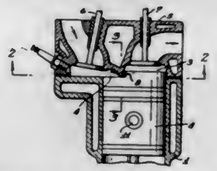
2,161,132
CYLINDER AND PISTON CONSTRUCTION
James P. Burke, Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich.
Application August 27, 1937, Serial No. 161,309
8 Claims. (Cl. 123—191)



1. A piston having a flat top and a projection

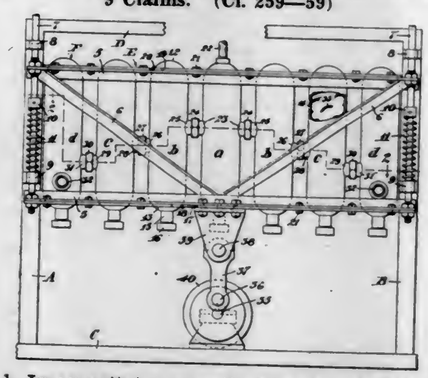
arising therefrom as a projection of an arc of the periphery thereof, said projection being of substantially zero height at the middle of said arc and tapering upwardly therefrom.

2,161,133
CYLINDER HEAD CONSTRUCTION
James P. Burke, Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich.
Application January 27, 1938, Serial No. 187,144
13 Claims. (Cl. 123—191)



1. A combustion chamber for an engine cylinder having a projection depending thereinto from the top thereof, said projection having a less vertical thickness at one portion than at the remainder thereof.

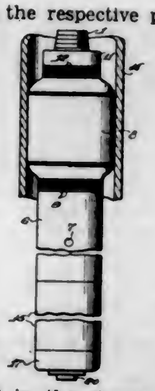
2,161,134
AGITATOR
Francis B. Chapman, Los Angeles, Calif.
Application March 20, 1937, Serial No. 132,150
9 Claims. (Cl. 259—59)



1. In an agitator, a vertically reciprocal frame, means for reciprocating said frame, a plurality of vertically elongated tanks carried by said frame having closed upper ends, means for directing pulp or materials to be treated to one of said tanks, overflow means for directing pulp successively through a series of said tanks to one of said tanks which is formed with a discharge outlet; said overflow means being located intermediate the ends of said tanks.

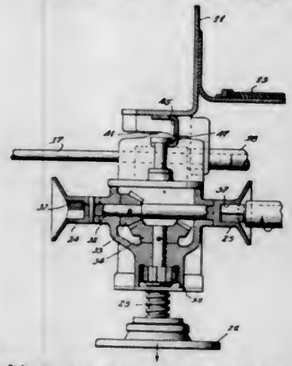
2,161,135
WELL FLOW AND TEST TOOL
Robert L. Chappell, El Campo, Tex.
Application May 21, 1937, Serial No. 143,958
1 Claim. (Cl. 166—1)

A tool for sampling well fluids comprising a tubular body having an annular enlargement thereon providing an annular shoulder, a sleeve slidably mounted on the body and having a stepped interior to provide an annular shoulder and an annular chamber with the wall of which the enlargement has intimate sliding engagement, said sleeve having ports therein opening into said chamber, said body having ports therein adapted to communicate with the chamber when the enlargement moves downwardly in the sleeve, whereby fluid communication is established between the respective ports, and spring



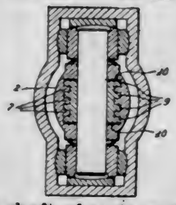
means mounted in the sleeve to resist sliding movement of the sleeve and tubular body.

2,161,136
ATTACHED JACK FOR VEHICLES
Prentice Conradson, Evansville, Wis.
Application May 12, 1937, Serial No. 142,129
15 Claims. (Cl. 254—86)



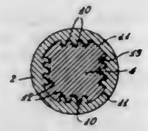
1. Jacking apparatus for a vehicle having a frame comprising an extensible jack and means for slidably and pivotally mounting said jack on said vehicle between longitudinal members of said frame whereby said jack may be shifted from a horizontal storage position to a vertical operative position at either side of said frame to lift either side of said vehicle.

2,161,137
SPLINE SHAFT CONSTRUCTION
Charles D. Cutting, Detroit, Mich., assignor to The Cutting Sales & Engineering Corporation, a corporation of Michigan
Application March 1, 1937, Serial No. 128,389
11 Claims. (Cl. 64—1)



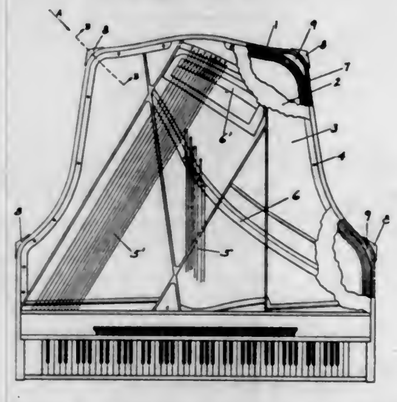
7. A splined shaft of rectangular cross-section having two opposed sides splined and the other two opposed sides planar, and a longitudinal slot interrupting the two planar sides.

2,161,138
SPLINE SHAFT
Charles D. Cutting, Detroit, Mich., assignor to The Cutting Sales & Engineering Corporation, a corporation of Michigan
Application December 20, 1937, Serial No. 180,753
20 Claims. (Cl. 64—1)



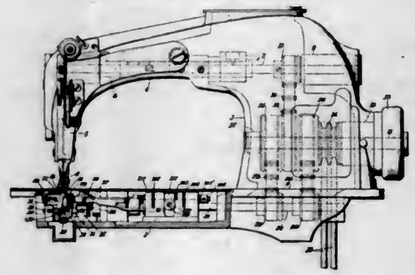
1. A shaft having a plurality of groups of splines extending parallel to the axis thereof, the splines of each group being separated by non-bearing surfaces, and smooth curved surfaces separating said groups and constituting bearing surfaces.

2,161,139
RIM CONSTRUCTION FOR PIANOS
Wilbur M. Day, Cincinnati, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio
Application November 26, 1937, Serial No. 176,410
8 Claims. (Cl. 84—177)



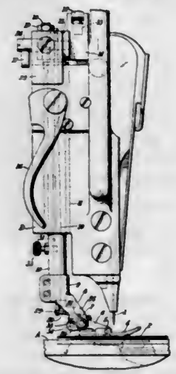
1. A grand piano case including a support rim and a closure rim encompassing said support rim, each of said rims comprising a plurality of wood laminae respectively of the rim width, cemented together to form the rim thickness and extending in length as a horizontal compound curve comprising curve portions of relatively small curvature interspaced with curve segments of relatively large outward convexity, said closure rim conforming to said support rim in said portions of relatively small curvature and secured thereto in said portions, said closure rim being of lesser thickness than said support rim and of greater outward convexity in said convex segments, whereby in said segments said closure rim is spaced apart outwardly from said support rim, and a plurality of wood corner members secured to the outer surface of said closure rim respectively at said convex portions, said members extending each the width of said closure rim and conforming to said closure rim in their surfaces of junction therewith, the exposed surfaces of said members forming tangential continuations of said closure rim portions of small curvature, whereby said members present line corners extending the width of said closure rim.

2,161,140
SEWING MACHINE
Albert H. De Voe, Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 18, 1938, Serial No. 196,641
23 Claims. (Cl. 112—197)



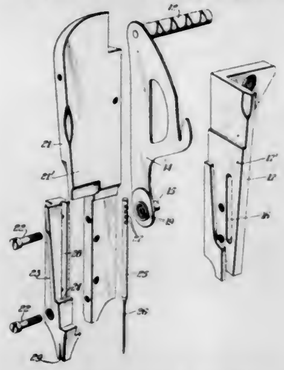
2. A sewing machine having a frame including a bed, standard and overhanging bracket-arm, three parallel rotary shafts the top one of which is journaled in said bracket-arm and the bottom two of which are journaled in said bed, a main-shaft journaled in said standard and belt connected to drive said three parallel shafts at twice the speed of said main-shaft, a reciprocatory needle actuated by the top shaft, a thread-carrying chain-stitch looper actuated by one of said bottom shafts, and a looper-thread cutter actuated by the other bottom shaft.

2,161,141
PRESSER MECHANISM FOR SEWING MACHINES
Albert H. De Voe, Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 18, 1938, Serial No. 196,643
12 Claims. (Cl. 112—235)



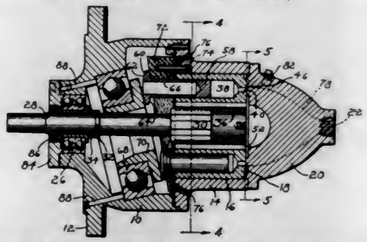
4. In a presser-mechanism for sewing machines, a presser-bar having a cavity extending longitudinally thereof, a lever pivotally carried by said bar at one end of said cavity, a presser-foot carried by said lever, a cantilever spring housed in said cavity and fixed at one end to said presser-bar, and an operative connection between the other end of said spring and said lever.

2,161,142
SEWING MACHINE NEEDLE-ACTUATING MECHANISM
Albert H. De Voe, Livingston Manor, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 18, 1938, Serial No. 196,644
9 Claims. (Cl. 112—221)



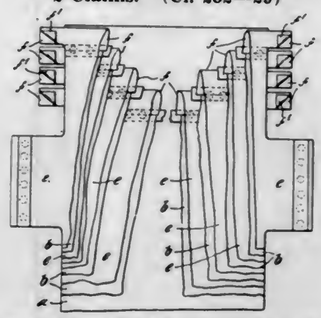
1. In a sewing machine, a bed and gooseneck, a rotary top shaft in said gooseneck, an eye-pointed needle having an integral shank of conventional needle-shank diameter, a bearing in said gooseneck in which said shank is endwise slidably fitted, a link connected at one end to said shaft, at the free end of said gooseneck, means independent of said needle-shank to guide the other end of said link to move in a right line, and means to transmit the right line movement of said other end of said link to said needle-shank.

2,161,143
POWER TRANSMISSION
Thomas B. Doe, New York, N. Y., and Edwin L. Rose, Watertown, and Christian E. Grosser, Waterbury, Conn., assignors to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application October 28, 1936, Serial No. 108,000
4 Claims. (Cl. 103—162)



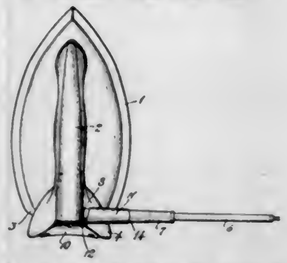
1. In a fluid pressure energy translating device the combination of a rotary cylinder barrel having a plurality of cylinders formed therein parallel to and spaced around the axis of barrel rotation and having fluid ports, one at one end of each cylinder, a casing including a valve plate having a pair of arcuate ports cooperating with said cylinder ports, a thrust plate mounted in the casing and having a flat annular surface inclined to the barrel axis, a plurality of pistons reciprocable in the cylinders said pistons having flanges at their outer ends bearing directly against said surface and a piston return cam having a generated non-planar surface mounted in the casing and bearing against the under side of the flanges to maintain the piston flanges against the thrust plate.

2,161,144
TRANSFER SHEET ARRANGEMENT, PARTICULARLY FOR USE IN TYPEWRITERS OR THE LIKE
William Douglas, Whitstable, England
Application October 10, 1936, Serial No. 104,971
In Great Britain October 16, 1935
2 Claims. (Cl. 282—29)



1. A set of superposed carbon transfer sheets secured together at only one lateral border and adjacent to a transverse border, each sheet having along said transverse border a folded-over transverse loop portion.

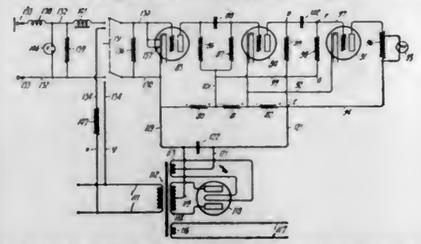
2,161,145
ELECTRIC IRON
Cornelius Du Pree, Wyckoff, and Aaron Ackerman, Paterson, N. J., assignors to The Manhattan Shirt Company, New York, N. Y., a corporation of New York
Application May 13, 1938, Serial No. 207,678
1 Claim. (Cl. 219—25)



In an electric iron, a chamber arranged in the rear end of the body of the iron and housing the contacts, a handle, a safety device arranged to protect the operator's hand against being burned should the electric connecting cord break and cause a short circuit, said safety device having a substantially flat plate, said plate being positioned at the rear end of the iron and normally covering the opening into said chamber and having a peripheral configuration conforming to said chamber, an aperture in the side wall of the chamber between the said plate and the point of the iron, an electric cord adapted to be attached to a source of electric current supply, said cord being covered on the outside with a flexible, non-conducting sleeve formed around said cord for a portion of its length at and in advance of the point of entry of said cord into said aperture, said

plate having integrally formed therewith a tubular extension, said extension extending in a sidewise direction from said plate and being turned around said flexible, non-conducting sleeve and aligned with said aperture, said extension directly supporting said non-conducting sleeve, said plate supporting said extension when the plate is secured over the opening to said chamber, said extension being wholly supported by its integral relation to said plate by a resilient neck.

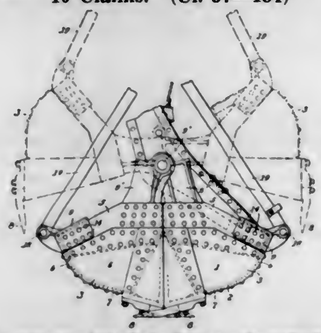
2,161,146
APPARATUS FOR MEASURING FREQUENCY
John E. Echlin and Lennart G. Erickson, San Francisco, Calif., assignors to Echlin Manufacturing Co., San Francisco, Calif., a corporation of California
Application August 15, 1936, Serial No. 96,256
16 Claims. (Cl. 175—368)



9. Apparatus for measuring frequency comprising an electron discharge device having an output circuit and a control circuit, an indicating device electrically responsive to flow of current in said output circuit as determined by said control circuit and means responsive in proportion to the frequency to be measured for periodically altering the control effect of said control circuit for constant time intervals.

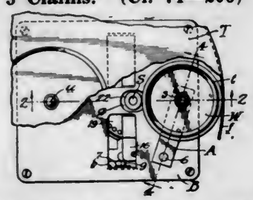
11. A tachometer comprising apparatus responsive to phenomena indicative of the velocity of mechanism whose velocity is to be measured and requiring a source of power for operation thereof, and means for utilizing the same source of power to calibrate said tachometer.

2,161,147
CLAMSHELL BUCKET AND CORNER BRACKET THEREFOR
George J. Ehrhardt, Oakmont, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application January 25, 1939, Serial No. 252,780
10 Claims. (Cl. 37—184)



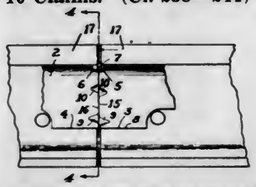
1. A corner bracket for a clamshell bucket, comprising a first portion adapted to lie against the outside of and be connected with the back of the bucket, a second portion adapted to lie against the outside of and be connected with the side of the bucket, a top portion integrally connected with both of said first and second portions adapted to overlie the upper edge of the bucket, and an extension for connection with a corner bar for operating the bucket integrally connected with both of said first and top portions.

2,161,148
TURNTABLE DRIVE
Joseph Erwood, Chicago, Ill., assignor to The Webster Company, Chicago, Ill., a corporation of Illinois
Application February 20, 1939, Serial No. 257,315
5 Claims. (Cl. 74—206)



1. In a phonograph, the combination of an apertured base plate affording upon its upper side two mountings, one fixed and the other movable, a turntable provided with a depending flange adapted for rotatable fitting upon the fixed mounting and an idler wheel adapted for peripheral driving engagement with the turntable flange supported on the movable mounting, a fixed support depending from the base plate, a motor having an off-center horizontal pivotal mounting on the support, a shaft extended upwardly from the motor through the base plate aperture, and a roller carried by the shaft near its upper end adapted to frictionally engage the idler wheel, the preponderance of motor weight lying to the side of the axis of its pivotal mounting which is toward the idler wheel whereby the roller end of the motor shaft tends by gravity to bear with pressure against the idler wheel and to hold the idler wheel with pressure against the turntable flange to maintain a driving connection therebetween.

2,161,149
RAIL JOINT SHIM
Albert F. Fifield, Cleveland, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio
Original application May 3, 1933, Serial No. 669,218, now Patent No. 2,101,900, dated December 14, 1937. Divided and this application April 30, 1937, Serial No. 139,996
10 Claims. (Cl. 238—244)



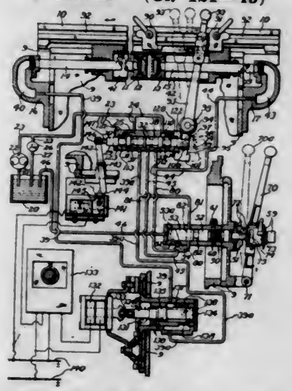
1. A wear compensating means for rail end joints of the class comprising a side bar and bolts projected through the bar and through the rail web comprising a two-part metallic shim each part of angular cross-section, the two parts adapted to be disposed end to end and positioned between

the bar and the rail, and tapering in thickness toward their opposite ends, the adjacent ends of the vertical flanges of the two parts having means locally and vertically offset to prevent one shim part from being overlappingly displaced longitudinally relative to the other part.

2,161,150
GRINDING MACHINE TABLE RECIPROCATING MECHANISM

Carl G. Flygare, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application March 3, 1938, Serial No. 193,707
6 Claims. (Cl. 121—45)

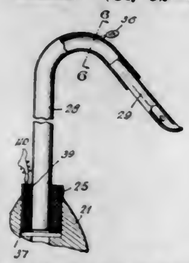


1. In a grinding machine, a longitudinally reciprocable table, means including a fluid pressure piston and cylinder to reciprocate said table, means including a reversing valve to control the admission of fluid to said cylinder, a lever operatively connected to move said valve, adjustable dogs on said table to move said lever and shift the valve into a reverse position, and an electrically controlled mechanism which is actuated by and in timed relation with the movement of said reverse valve to prevent the flow of fluid between said reverse valve and one end of said cylinder until the table has stopped for a predetermined period of dwell.

2,161,151
SALIVA EJECTOR

Hyman Freedman, Brooklyn, N. Y.

Application January 25, 1937, Serial No. 122,159
2 Claims. (Cl. 32—33)



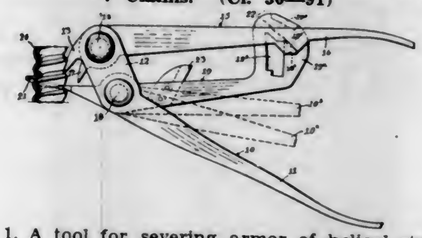
1. In a saliva ejector, a discharge tube having a mouthpiece at one end thereof, a guide member extending along said tube and forming an electrical conductor, and a source of light having a terminal engageable with said guide member for adjustment of said source along said tube.

2. In a mounting for a saliva ejector tube, a coupling including an outer member having an opening therethrough enlarged at one end to form a recess, and a plug into which an end of said ejector is adapted to be fitted and which is engageable in said recess in spaced relation to the inner end thereof, the periphery of said plug having grooves formed therein which combine with the wall of said recess to provide passages for the admission of air into said tube.

2,161,152
TOOL

Emery C. Furrer, Chicago, Ill.

Application February 8, 1937, Serial No. 124,663
7 Claims. (Cl. 30—91)

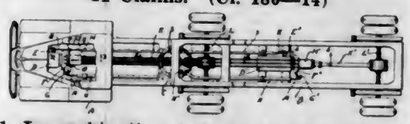


1. A tool for severing armor of helical strip form comprising an armor holding member, a pair of pivotally mounted shearing blades, and a pair of pivotally attached manually operable levers secured to said holding member and coacting therewith for sequentially actuating said blades in a direction whereby one of the same is caused to indent the armor inwardly and enter the indentation to the rear of the convolution to be severed prior to the shearing action of the blades.

2,161,153
DUAL TRANSMISSION CONTROL MECHANISM

Hugo R. Gallun and Grover S. Waddell, Los Angeles, Calif.; said Gallun assignor to said Waddell

Application May 8, 1937, Serial No. 141,475
11 Claims. (Cl. 180—14)

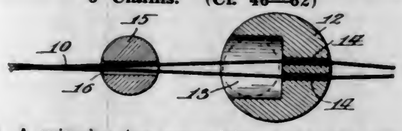


1. In combination; a truck; a trailer connected to the truck; a pair of motors for independently propelling the truck and the trailer; selective gear transmissions, one for each of the motors; and hydraulic means common to both transmissions for simultaneously selecting the same gear ratio in both transmissions, and including manually operable means on one of said vehicles for creating hydraulic forces for actuating said transmissions.

2,161,154
SPINNING TOY

Irene Gertler, Beverly Hills, Calif.

Application April 12, 1938, Serial No. 201,545
3 Claims. (Cl. 46—62)

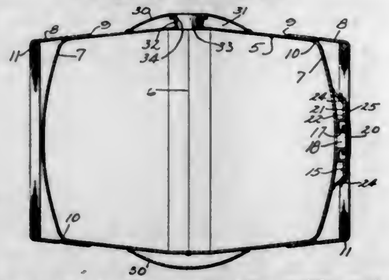


1. A spinning toy comprising a doubled cord, a body provided with apertures through which the strands of said doubled cord pass, said body being provided with a recess, a smaller body provided with an opening through which passes both strands of said doubled cord and which smaller body is adapted to move into and occupy the recess in the larger body while the doubled cord is being twisted and untwisted.

2,161,155
METAL BARREL

Fredrick Gettelman, Milwaukee, Wis.

Application September 15, 1933, Serial No. 689,592
7 Claims. (Cl. 220—71)

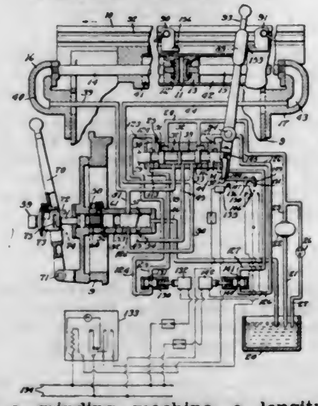


1. In a barrel, the combination with an inner shell adapted to contain a liquid, of a bung fitting applied to a central portion of the side of said shell and connected at its inner end to the shell, a girth band encircling the central portions of the shell and convexly contoured axially of the shell to provide a central rolling portion, said band being connected to said bung fitting adjacent the end thereof, extending symmetrically and free of convolutions to said shell and being marginally connected with said shell along peripheral lines so located intermediate said bung fitting and the ends of the shell as to equalize the load between said shell and girth band.

2,161,156
HYDRAULIC TABLE RECIPROCATING MECHANISM

Bernhard Heinz Goehring, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application March 8, 1938, Serial No. 194,610
5 Claims. (Cl. 121—45)

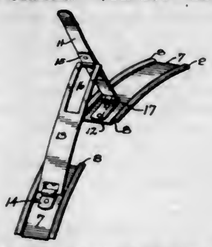


1. In a grinding machine, a longitudinally movable table, means including a piston and cylinder to reciprocate said table, a reversing valve therefor, means including a reversing lever to actuate said valve, a pair of independent electrically controlled valves, one of said valves being arranged to control the shifting movement of said reversing valve in one direction and the other of said valves being arranged to control the shifting movement of the reverse valve in the opposite direction, an adjustable time delay relay which is rendered operative by said reversing lever, and means actuated by said reversing lever to render one of said electrically controlled valves operative when the lever is moved in one direction and to render the other control valve operative when the lever is moved in the opposite direction.

2,161,157
SPACER FOR THE SIDES OF MOVING-PICTURE REELS

Nathan Goldberg, Denver, Colo.

Application June 18, 1938, Serial No. 214,427
2 Claims. (Cl. 206—52)

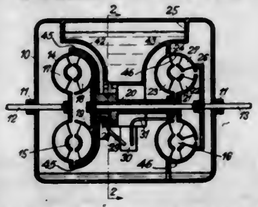


1. In combination with a moving picture film reel having a hub and spaced circular sides, means for closing the space between the edges of the sides and for holding the sides in predetermined spaced relation, comprising, a strip of material having spaced parallel grooves for the reception of the peripherial edges of the sides, and means for subjecting the strip to tension to urge it into operative engagement with the peripherial edges of the sides and for latching it in operative position, said means comprising a lever pivoted at one end to the strip, near an end of the latter, and a link pivoted to the other end of the strip and to the lever whereby a rocking of the lever about its pivot will vary the distance between the ends of the strip.

2,161,158
PRESSURE LOADED TANK FOR HYDRAULIC TRANSMISSIONS

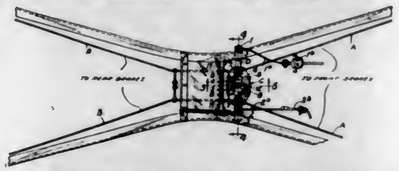
Dietrich Gössler, Heidenheim, Germany

Application January 11, 1937, Serial No. 119,994
In Germany February 17, 1936
8 Claims. (Cl. 60—54)



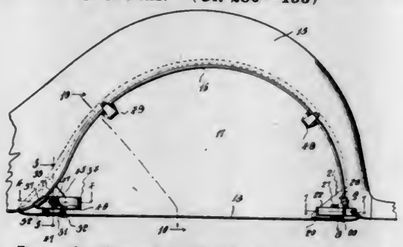
1. In a hydraulic transmission, a housing, a hydraulic transmission unit therein, an air-tight liquid tank, pumping means arranged to pump liquid and air from said housing to said tank, means opening into the air space above the liquid level in said tank and including a pressure relief device adapted to discharge air from said tank from above the liquid level thereof, and means for conducting discharged air from said pressure relief device back to said housing.

2,161,159
BRAKE OPERATING APPARATUS FOR AUTOMOBILES AND SIMILAR VEHICLES
Edwin S. Harrison, Clayton, Mo.; Margaret J. Harrison administratrix of said Edwin S. Harrison, deceased
Application October 18, 1935, Serial No. 45,588
12 Claims. (Cl. 188—204)



1. An operating mechanism for vehicle wheel brakes, composed of a control means that comprises a rock shaft, actuating devices leading to said shaft from front and rear wheel brakes and arranged so as to converge as they approach said shaft, and a connection between said actuating devices and said rock shaft formed by an element interposed between the front and rear actuating devices and combined with said rock shaft in such a way as to be capable of moving longitudinally and transversely relatively to said shaft, for the purpose described.

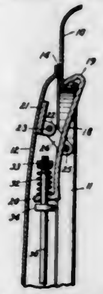
2,161,160
WHEEL GUARD
Ray W. Harroun and Emory K. Zimmerman, Detroit, Mich., assignors to Aero-Style Corporation, Indianapolis, Ind., a corporation of Indiana
Application March 19, 1935, Serial No. 11,885
9 Claims. (Cl. 280—153)



1. In a fender and wheel guard combination where the wheel guard is adapted to be held in position by the fender, means at one end of the guard wall for effecting a tensioned cramping engagement with the fender when in closed position and a loose engagement when pivoted about said end to be moved away from said closed position, and latching means at the other end for maintaining the guard wall in closed relation with the fender.

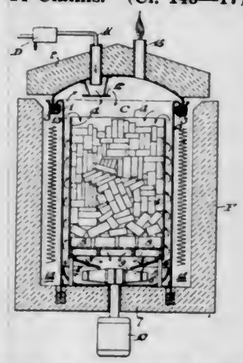
2,161,161
WHEEL GUARD FASTENER
Ray W. Harroun, Detroit, Mich., assignor to Aero-Style Corporation, Anderson, Ind., a corporation of Indiana
Original application May 15, 1934, Serial No. 725,783, now Patent No. 2,070,230, dated February 9, 1937. Divided and this application July 26, 1935, Serial No. 33,233
3 Claims. (Cl. 292—26)

1. In a device of the class described, positioning and fastening means for a guard wall adapted to close the side opening of an automobile wheel fender, said guard wall adapted to overlie the curved edge of the fender and be disposed laterally of the fender for slidable overlapping movement relative to the fender, and comprising extensions at the lower ends of the guard wall extending beneath the fender for engagement therewith, means pivotally carried by the guard



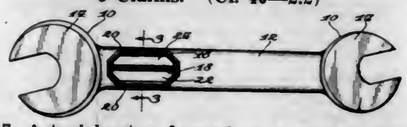
wall and movable laterally thereof for engagement with the fender for moving the guard wall in an upward and inward direction towards the fender for bindingly securing the guard wall in position on the fender, and a single means carried by said closure for actuating said means in unison.

2,161,162
METHOD OF CARBURIZING
John W. Harsch, Gwynedd, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 6, 1938, Serial No. 183,618
14 Claims. (Cl. 148—17)



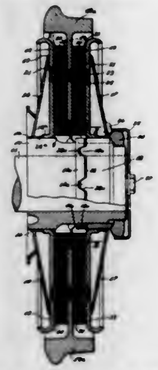
1. The method of carburizing which comprises passing a vehicle gas in contact with the load, introducing carbonaceous material into the vehicle gas in advance of and adjacent its first contact with the load, and subjecting the load to the resulting carburizing reagent.

2,161,163
TOOL HAVING IDENTIFICATION INSIGNIA
Theron L. Hedgpeth, Oak Park, Ill.
Application March 27, 1937, Serial No. 133,476
9 Claims. (Cl. 40—2.2)



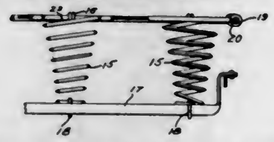
7. A tool having formed on a surface thereof an identification insignia defined in part by a continuous rib of predetermined length and height projecting from said surface, and grooves formed in said surface of the tool in the form of unitary characters or symbols having portions thereof abutting and extending from the opposite sides of said rib.

2,161,164
HUB CONSTRUCTION
Clarence F. Hirshfeld, Detroit, Mich., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application October 26, 1936, Serial No. 107,600
10 Claims. (Cl. 295—11)



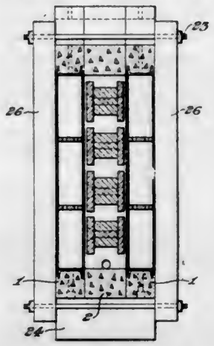
10. In combination, a hub, a sleeve fitting over the hub, tapered teeth on one end of the sleeve fitting into recesses in a shoulder on the hub, the sides of said teeth lying in planes intersecting in a line not in a plane perpendicular to the axis of the hub, shim material lying between the sides of the teeth and the opposed sides of the recesses, an annular member surrounding the hub and having a conical surface engaging a conical surface on the end of the sleeve away from the teeth, said conical surfaces being coaxial with the hub, and means for pressing the annular member against the sleeve.

2,161,165
WIRE SPRING STRUCTURE
Jerome Clifton Hirschman, Indianapolis, Ind.
Application July 21, 1937, Serial No. 154,697
1 Claim. (Cl. 267—1)



A coil spring formed of a wire triangular in cross-section curved into a plurality of convolutions about a common axis; the wire throughout the major convolutions being turned to have a flat face parallel with that axis, said wire being carried around from said convolutions in continuous triangular cross-section by an axial twist to terminate in a plurality of end convolutions with a flat face of the wire turned outwardly to bring the outer flat surfaces of those end convolutions into a common plane, said end convolutions being triangular in cross-section with the same area as that of the major convolutions.

2,161,166
ELECTROLYTIC CELL
Ralph M. Hunter, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 3, 1937, Serial No. 140,291
1 Claim. (Cl. 204—58)



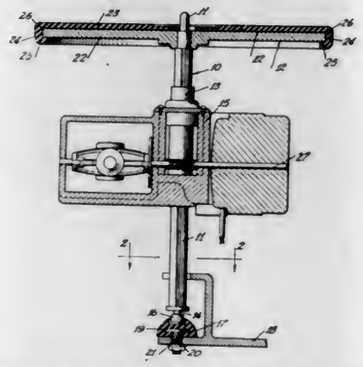
In an electrolytic apparatus of the filter press type for producing chlorine and caustic soda, the combination of a plurality of alternating vertically disposed anode and cathode cell units clamped together; said anode units comprising a rectangular frame of non-conducting material, transverse anode carrier bars of graphitized carbon within said frame and projecting therethrough at one end to form an electrical terminal, flat graphitized carbon blocks attached to each carrier bar and facing laterally outward on either side thereof so as to cover largely the lateral area by said frame, the outer faces of said blocks forming the active anode surfaces, an inlet for cell feed liquor and a gas outlet through the top of said frame; and said cathode unit comprising a rectangular frame of non-conducting material cooperating with the frame of the adjacent anode units and having on each lateral face a perforated metal plate or screen overlaid with a porous diaphragm, an electrical terminal attached to said plate or screen and at the bottom an outlet for cell liquor; common electrical connections to the terminals of said anode units and of said cathode units, respectively, a common header communicating with the openings in the top of said anode units for feeding cell liquor thereto and for removing gas, and a common header communicating with the top of said cathode units for removing gas.

2,161,167
LAUNDRY WASHING PROCESS
Max Hushinsky, Brooklyn, N. Y.
No Drawing. Application April 29, 1937, Serial No. 139,711
1 Claim. (Cl. 8—137)

The herein described process of washing fabrics and particularly white cloth, which consists in breaking or removing stains, consisting of coloring matter, such as lipstick, and the like, by dissolving the materials of which the coloring matter is composed in a series of relatively concentrated solutions of a break powder comprising soap, soda and a phosphate, at a temperature of approximately 190° to 200° F., said material being subjected to the said solutions approximately six times during periods of approximately fifteen minutes each; and then rinsing the material approximately seven times for periods of about two minutes each, the water being drawn off after

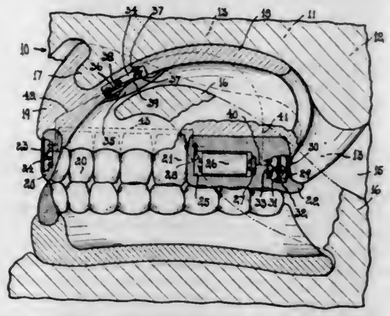
each rinse, and the temperatures of the first and second rinses being from 160° to 170° F., the third rinse being from 150° to 160° F., the fourth rinse being from 140° to 150°, the fifth rinse being from 130° to 140°, the sixth rinse 110°, and the seventh rinse with water at atmospheric temperature which is substantially 70° to 90°.

2,161,168
PHONOGRAPH APPARATUS
William H. Hutter, Chicago, Ill., assignor to Rock-Ola Manufacturing Corp., Chicago, Ill., a corporation of Delaware
Original application March 14, 1935, Serial No. 11,094. Divided and this application March 6, 1936, Serial No. 67,472
1 Claim. (Cl. 308—26)



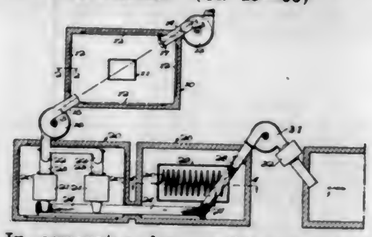
A bearing for the shaft of a reciprocable turntable of a phonograph, comprising a reciprocable bearing support, a hemispherical body of sound absorbing material, means embedded in said hemispherical body for attaching it to said bearing support, and a thrust bearing for the turntable shaft embedded in said hemispherical body in spaced relation with the last said means.

2,161,169
DENTIPHONE
Albert W. Jefferis, Jr., Omaha, Nebr., assignor of one-half to Erwin H. Wilson, Omaha, Nebr.
Application January 24, 1938, Serial No. 186,663
8 Claims. (Cl. 179—107)



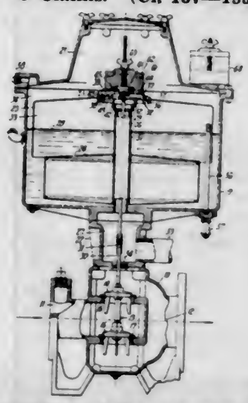
6. The combination with a denture, of electrically energized means carried thereby for impressing sound vibrations on the auditory sense of a user of said denture.

2,161,170
APPARATUS FOR CONDITIONING COTTON
Willie Franklin Jones, Anderson, S. C.
Application January 19, 1937, Serial No. 121,356
3 Claims. (Cl. 19—66)



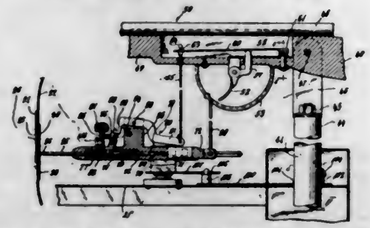
1. In apparatus for conditioning cotton, an intake chamber, means to introduce broken cotton into the intake chamber, means to heat the chamber so that the cotton thus introduced is deprived of some of its moisture, a fan to aerate the cotton in the intake chamber, a second chamber, means to convey the cotton from the first chamber to the second chamber without substantially alterating the temperature of the cotton, a mechanical cotton cleaner arranged within the second chamber and receiving the cotton from the conveying means, a third chamber, means to convey the cotton from the second chamber and into the third chamber without substantially alterating the moisture content of the cotton, means providing a vat in the third chamber, means to heat the liquid held within the vat to vaporize the same and to raise the temperature of the third chamber above that of the second chamber, and means to withdraw the treated cotton from the third chamber.

2,161,171
GAS FLOW REGULATOR
Albert E. Jurs, Piedmont, Calif.
Application February 17, 1936, Serial No. 64,362
8 Claims. (Cl. 137—153)



1. In a regulator of the character described, a valve casing having fluid inlet and outlet openings, a flow control valve within the casing movable between open and closed positions, a closed liquid containing chamber above the valve casing, a bell within said chamber and having its depending peripheral edge portion immersed in the liquid, a float immersed in the liquid below said bell, a vertically extending rod connecting the valve to the bell, a pipe extending upwardly from the bottom of the chamber and surrounding said rod, the upper end of the pipe terminating above the level of liquid in the chamber, a tube surrounding said pipe and connected to the float at a point below the liquid level and to the bell at a point above the liquid level, whereby a liquid seal is formed between said tube and said pipe, and means for establishing communication between said pipe and one side of said bell.

2,161,172
PRACTICE GUN
Louis Kassler, New York, N. Y.
Application May 14, 1937, Serial No. 142,530
11 Claims. (Cl. 273—101.2)



1. In a device of the character described, a markable target, means for illuminating the front face of said target and projecting light therefrom forwardly of the gun to form an inverted image of the same, a gun, a pivotal support therefor, a marker behind said target, a pivotal support for said marker, an operating connection between said gun and support whereby aiming movements of the gun barrel are communicated to said mark.

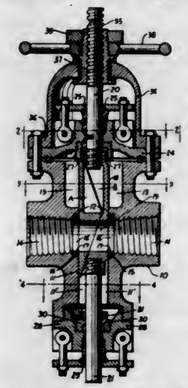
2,161,173
ALKYL-SUBSTITUTED AROMATIC SULPHONIC ACIDS
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 2, 1936, Serial No. 88,625
10 Claims. (Cl. 260—505)

4. A wetting agent composition comprising essentially a mixture of mono-sulphonated alkylated benzene compounds obtained by introducing chlorine into an excess of a kerosene fraction consisting substantially of paraffinic hydrocarbons, the major proportion of which is selected from the group consisting of decane, undecane, dodecane and tridecane, and having a distilling range of substantially 160° C. to 245° C., so as to produce a preponderant proportion of alkyl monochlorides, employing said alkyl monohalides as an alkylation medium by condensing therewith an aromatic hydrocarbon of the benzene series and sulphonating the alkylated benzene compounds.

2,161,174
ALKYL-SUBSTITUTED AROMATIC SULPHONIC ACIDS
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 2, 1936, Serial No. 88,685
14 Claims. (Cl. 260—505)

1. A detergent comprising essentially a mixture of mono-sulphonated alkylated benzene hydrocarbons obtained by substantially one-third chlorinating on a molar basis a kerosene fraction selected from a kerosene having a distilling range of substantially 182° C. to 280° C. and consisting substantially of paraffinic hydrocarbons, the major proportion of which is selected from the group consisting of undecane, dodecane, tridecane, tetradecane and pentadecane, employing said chlorinated hydrocarbons as an alkylation medium by condensing an aromatic hydrocarbon of the benzene series therewith by a Friedel-Crafts synthesis in the presence of aluminum chloride, separating the alkylated benzene hydrocarbons therefrom, and sulphonating the alkylated benzene hydrocarbons so obtained.

2,161,175
VALVE
Milton P. Laurent, Houston, Tex., assignor to W. K. M. Company, Incorporated, Houston, Tex., a corporation of Texas
Application November 9, 1936, Serial No. 109,843
4 Claims. (Cl. 251—51)



1. The herein described gate valve for use in a fluid line including, a body having a lubricant chamber containing a liquid other than the line fluid and opposed gate guides intermediate the ends of said chamber, said body having a transverse fluid passageway with port openings within said gate guides, a reciprocatory gate slidable in said guides and provided for opening and closing said ports as to communication between the ports but constantly preventing communication between the ports and said lubricant chamber, said chamber having by-pass communication between its ends at opposite sides of the gate and the gate exposing substantially equal areas at its ends to said chamber, an operating stem extending from one end of the gate, and a pilot stem extending from the opposite end of the gate, said stems being of substantially the same area of displacement in said lubricant chamber.

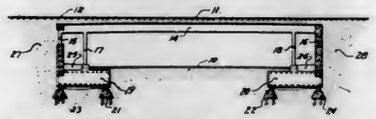
2,161,176
BRIDGE CONSTRUCTION
Paul W. Leisner, Evanston, Ill.
Application July 20, 1935, Serial No. 32,400
7 Claims. (Cl. 72—56)



4. A bridge frame comprising an overhead girder, a pair of uprights of a length substantially

equal to the height of the overhead secured to the overhead girder contiguous the ends thereof for supporting the overhead girder and for imparting bending moments thereto, and means for supporting the uprights comprising laterally extending members secured to the lower ends of the uprights at substantially right angles, said members being supported at a point spaced laterally inwardly from said uprights and being of a length substantially no less than that of the uprights.

2,161,177
BRIDGE CONSTRUCTION
Paul W. Leisner, Evanston, Ill.
Application July 30, 1936, Serial No. 93,415
10 Claims. (Cl. 72—56)



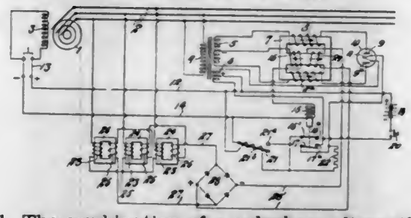
1. In a bridge construction, an overhead span member, reverse cantilever members arranged beneath said overhead and extending toward each other from the ends thereof, main supports for supporting the inner ends of said reverse cantilever members, auxiliary supports for supporting the outer ends of said reverse cantilever members, and means for connecting said reverse cantilever members to the overhead span member, said means being spaced outwardly of said main supports.

2,161,178
SYRINGE OR APPLICATOR
Herman B. Lermer, Newark, N. J., assignor, by mesne assignments, to Hygienic Tube & Container Corporation, Newark, N. J., a corporation of New Jersey
Application October 14, 1936, Serial No. 105,508
1 Claim. (Cl. 128—230)



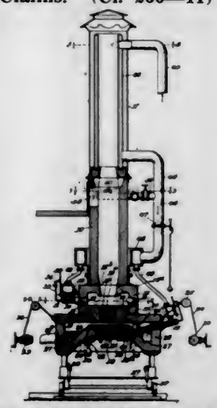
In a device of the class described, a tube, a member attached to one end of said tube, said member having an internal shoulder engaging the end of the tube, and a conical passage of less diameter than the tube, a piston slidably mounted in the tube and having a reduced portion adapted to move into said conical passage when the piston rests upon said internal shoulder, and a bulb for moving the piston in the tube, said bulb being attached to a connector having a conical tip adapted to be received by the conical passage in said member, said conical tip being of sufficient length to engage the reduced portion of the piston and move the piston off of the internal shoulder.

2,161,179
ELECTRIC CONTROLLING APPARATUS
Frank G. Logan, Pelham, N. Y., assignor to Ward Leonard Electric Company, a corporation of New York
Application August 21, 1936, Serial No. 97,127
7 Claims. (Cl. 171—119)



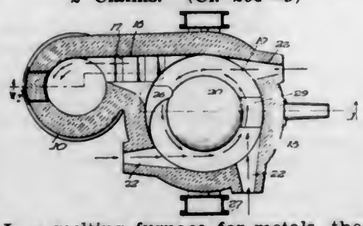
1. The combination of a polyphase alternating current machine having a field winding, a rectifier supplied with energy derived from said machine for supplying current to said field winding, an auxiliary source of direct current for supplying current to said field winding to initially build up the voltage of said machine, a switch for supplying heating current to said rectifier from said source, a time delay switch controlled by said first named switch for supplying current to said field winding from said auxiliary source, and means for automatically disconnecting said auxiliary source from said field winding and from said rectifier and for supplying heating current to said rectifier from said machine upon the voltage of said machine attaining a certain value.

2,161,180
APPARATUS FOR MELTING METALS
Peter Marx, Hennef-on-the-Sieg, Germany
Application April 15, 1937, Serial No. 137,000
In Germany April 27, 1936
5 Claims. (Cl. 266—11)



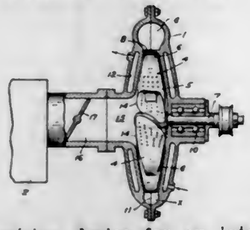
1. In a cupola furnace, the combination of a vertical shaft for retaining a charge to be melted, a fuel-fired melting chamber under the shaft, a fuel-fired refining chamber communicating with the melting chamber and having a bottom provided with an upstanding dome having a vertically extending opening therethrough and a refractory filling in the opening, a vertical duct leading from the melting chamber to discharge the melted metal on top of the dome, and a gate under the filling for permitting removal of the refractory from the opening.

2,161,181
MELTING FURNACE
Peter Marx, Hennef-on-the-Sieg, Germany
Application November 4, 1937, Serial No. 172,659
In Germany November 12, 1936
2 Claims. (Cl. 266—9)



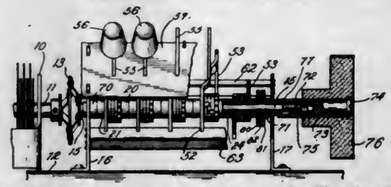
1. In a melting furnace for metals, the combination of a vertical stack for retaining the charge to be melted, a round refining chamber below and offset horizontally relatively to the stack, means for delivering fuel tangentially into the refining chamber to cause the products of combustion to swirl around the refining chamber, and a duct leading tangentially from the refining chamber to the bottom of the stack, for delivering the products of combustion from the refining chamber into the stack to melt the charge and for conducting the melted metal from the stack to the refining chamber.

2,161,182
SUPERCHARGER FOR INTERNAL COMBUSTION ENGINES
Alfred N. Massey, San Francisco, Calif.
Application January 22, 1937, Serial No. 121,862
4 Claims. (Cl. 48—180)



1. A vaporizing device for an internal combustion engine comprising a substantially circular casing having a central inlet and a tangential outlet for vaporized fuel, a propeller fan-type bladed impeller rotatably mounted within said casing, means for applying power to said impeller for rotating the same, the blades of said impeller including a central perforated suction portion with relatively wide overlapping blades arranged and adapted to draw the vapors axially into the casing while whipping the vapors into a fine state of division, and an imperforate narrow outer pressure developing portion twisted substantially at right angles to the inner end of the blade and arranged and adapted to force the whipped vapors tangentially out of the casing under pressure, said impeller positioned eccentrically within said casing to provide a spiral gradually increasing clearance between the periphery of the impeller and the casing to the tangential outlet.

2,161,183
PRESELECTOR
Edward J. Mastney, Berwyn, Ill., assignor to Oak Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 27, 1938, Serial No. 187,180
16 Claims. (Cl. 74—10)

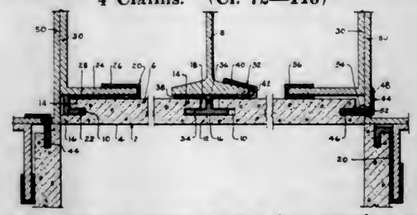


1. A preselector comprising a shaft adapted to be turned to a preselected position, coupling means rotatively adjustable on said shaft, a first means freely rotatable on said shaft on each side of said coupling means, a second means freely rotatable on said shaft on the outer side of each of said first freely rotatable means, means for mechanically engaging each of said second rotatable means to the adjacent first rotatable means after a predetermined angle of rotation dependent upon the relative rotary positions of said various means, means for mechanically engaging each first rotatable means with said coupling means at predetermined angular positions dependent upon the relative angular positions thereof, and means for simultaneously rotating said second rotatable means in opposite directions.

2,161,184
MOTOR LUBRICATING OIL
Leo J. McKone and Willard E. Lyons, Chicago, Ill., assignors to Leo Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 18, 1935, Serial No. 45,578
5 Claims. (Cl. 87—9)

1. A motor lubricating oil containing a beta-diketone compound of an element selected from the group consisting of platinum, palladium, nickel in sufficient amount to prevent or retard the formation of hard carbon deposits in the combustion chamber of an engine in which said oil may be used.

2,161,185
STRUCTURAL MATERIAL
Frederick F. Mills, Woodbine, N. J.
Application April 3, 1937, Serial No. 134,698
4 Claims. (Cl. 72—118)



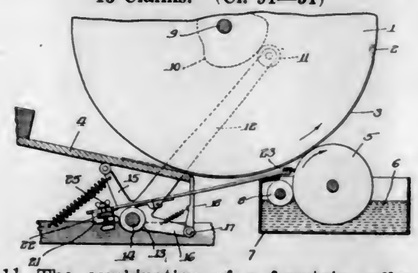
1. A structure comprising a framework, a plurality of units having recessed lateral edges and retaining means for securing said units to said framework extending into said recesses and engaging said framework, said retaining means each having a portion extending into a recess in one of said units and having another portion loosely fitting said framework and held in engagement with said framework by said units.

2,161,186
INSULATING MATERIAL AND PROCESS OF MANUFACTURE
John D. Morgan, South Orange, N. J., and Russell E. Lowe, New York, N. Y., assignors to Power Patents Company, Hillside, N. J., a corporation of Maine
No Drawing. Application September 15, 1936, Serial No. 100,802
9 Claims. (Cl. 106—18)

5. The process of producing a hard porous silica insulator which comprises preparing granular silica hydrogel, incorporating therewith a relatively small proportion of an alkali salt impurity and rapidly heating the hydrogel to a relatively high temperature thereby producing substantially anhydrous silica pellets.

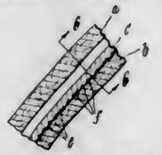
8. A bonded insulating material comprising preformed hard silica pellets having a high degree of porosity, said pellets being bonded together with a bonding agent and cast in the desired shape.

2,161,187
LIQUID APPLYING MACHINE
Erwin Mueller, Chicago, Ill.
Application October 19, 1936, Serial No. 106,276
Renewed October 17, 1938
13 Claims. (Cl. 91—51)



11. The combination of a fountain roller, a sheet carrier for engaging the sheet with said roller, a rock shaft, a scraper mounted on said rock shaft to engage the roller and remove some of the liquid therefrom, and cam means including a cam on the axis of said carrier for actuating said rock shaft and thereby engaging and disengaging said scraper with said roller.

2,161,188
SHOE AND SHANK STIFFENER THEREFOR
William H. Nickerson, Newton Center, Mass.
Application August 4, 1937, Serial No. 157,337
8 Claims. (Cl. 12—142)



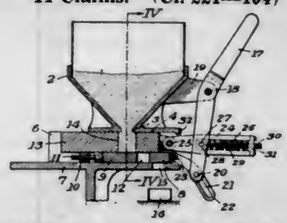
1. The process of shoe making which comprises providing a shank stiffener having an embossed surface with shallow channels between and around the embossments, applying cement between the embossed surface of such stiffener and the surface of a sole of the shoe, and applying the sole with pressure between it and the stiffener such that the embossed projections of the latter penetrate substantially through the cement coating into contact with the adjacent surface of said sole, leaving ridges of cement in the channels.

2,161,189
CUFF LINK CONSTRUCTION
Jerome E. O'Brien, Attleboro, Mass., assignor to Morse Andrews Co., a corporation of Massachusetts
Application June 24, 1937, Serial No. 150,043
8 Claims. (Cl. 24—102)



1. In a cuff link, a head, a housing extending therefrom, a shank having arms forming a U shaped frame anchored in said housing, means for locking said shank in said housing, and a movable end pivotally mounted between the ends of said arms, said end having cam groove seats on opposite sides thereof and said arms having cam projections engageable with said cam groove seats, said end and said arms having additional integral parts engageable to prevent separation thereof.

2,161,190
APPARATUS FOR MEASURING CHARGES OF POWDERED AND GRANULAR MATERIALS
Ambrose D. Paull, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a corporation of West Virginia
Application January 28, 1938, Serial No. 187,418
11 Claims. (Cl. 221—104)

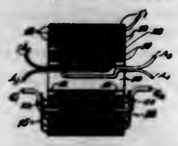


1. Apparatus for measuring out charges of dry granular or powdered material comprising a hopper, means for receiving the exact amount of material required, and means interposed between the hopper and the first means for receiving material from the hopper and delivering it to the first means, said second means having a capacity greater than the first, whereby said second means may hold a supply of material in excess of the capacity of the first, said first and second means being relatively movable into and out of register, and means for interrupting communication between said second means and the hopper at all times when the second means is delivering material to the first, whereby the pressure of the volume of material in the hopper may not be transmitted to the material being charged into the said first means.

2,161,191
ACETYLENIC ALCOHOL
Granville A. Perkins, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application March 16, 1937, Serial No. 131,186
17 Claims. (Cl. 260—638)

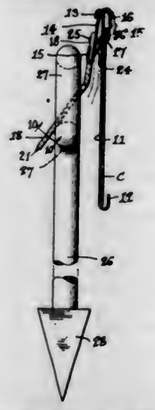
1. Process for producing a monohydric acetylenic alcohol, which comprises reacting a ketone and acetylene in the presence of an alkali metal salt of a monoalkyl ether of a glycol, and hydrolyzing the salt of the acetylenic alcohol thus produced.

2,161,192
ANTENNA COUPLING SYSTEM
Wynford R. Peterson, Nashville, Tenn.
Application December 31, 1937, Serial No. 182,717
4 Claims. (Cl. 250—16)



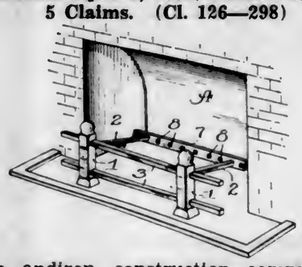
1. As an article of manufacture, an antenna coupling system comprising a non-magnetic core, two antenna coils interwound upon the core, a plurality of conductive bands surrounding said coils and coaxial therewith, a plurality of bands of insulating material interposed, one between each pair of conductive bands, a connecting member formed of conductive material in the general shape of a parallelogram with oblique sides, having a plurality of partial slits formed therein to form a plurality of relatively narrow strips joined together at one end and free at the other end, said strips being bent at substantially a right angle and one strip making electrical contact with the surface of each alternate band of conductive foil; a second connecting member similarly formed making contact with, and, electrically joining together, the remaining bands of conductive material, and a coil of wire interposed between two of the bands of insulating material, taking the place of one of the conductive bands, the ends of said coil being connected, one to each of the two connecting members, substantially described.

2,161,193
MEANS FOR MAKING IDENTIFIABLE PHOTOGRAPHS
Roy Warren Phillips, Wichita, Kans.
Application May 5, 1938, Serial No. 206,300
2 Claims. (Cl. 40—140)



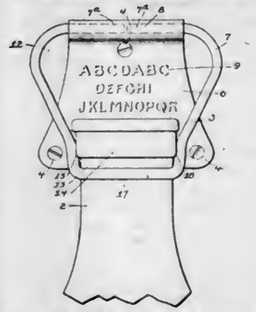
2. As a new article of manufacture for the purposes described, a holder for removable cards, a releasable card engaging element mounted on the said holder and normally engaging the cards to retain them on the holder, manually operable spring-controlled means mounted on the holder and operatively engaging the aforesaid card engaging element to normally hold same in operative engagement with the cards to prevent the cards from being blown away when exposed to the wind, and a stake on which the aforesaid holder is detachably mounted, said stake including means for anchoring it in stationary position in the ground, for the purposes herein described.

2,161,194
ADJUSTABLE ANDIRON
Francis J. Plym, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application April 3, 1937, Serial No. 134,785
5 Claims. (Cl. 126—298)



2. An andiron construction comprising two andiron units consisting of log supports and standards, said standards having aligned openings therein, a recess in each standard and communicating with the opening, a separable cross bar slidable in said openings, and lugs on said cross bar and adapted to automatically drop into said recesses by reason of the weight of the bar to lock said bar and standards together.

2,161,195
MILK BOTTLE HANGER
George W. Potts, Fairfield, Iowa
Application May 6, 1938, Serial No. 206,432
1 Claim. (Cl. 248—312)

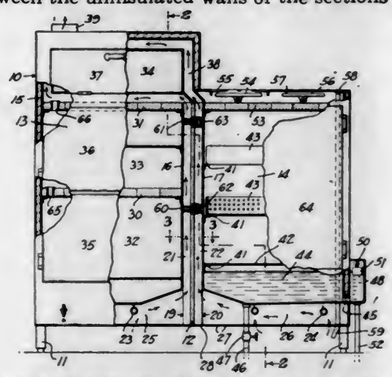


A hanger comprising two members associated in hinged relation, one of the members being an attaching plate for securing the hanger to a wall-like support, and the other member a tapered loop, a portion of which is bent up to normally project outwardly from and clear of the plate to present its tapered opening for free and unobstructed entrance and engagement of the article to be supported, the engaging end of the loop being shaped to provide three main points of supporting contact with the engaged article.

2,161,196
COOKING STOVE
Joseph V. Prosser, Los Angeles, Calif.
Application October 5, 1937, Serial No. 167,363
3 Claims. (Cl. 126—39)

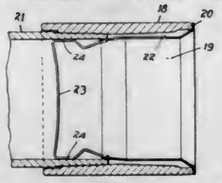
1. In a cooking stove having heating means and heat sections provided with uninsulated walls

in spaced confronting relationship, a refractory flue member for the heating means, interposed between the uninsulated walls of the sections and



having flues opening laterally thereto to heat the sections by the conduction of heat directly from the flues to the uninsulated walls.

2,161,197
THREAD PROTECTOR
Edward J. Protin, Charleroi, Pa.
Application March 10, 1938, Serial No. 195,070
2 Claims. (Cl. 138—96)



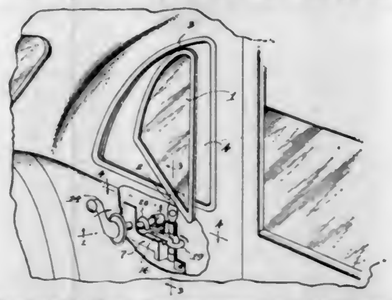
1. A thread protector comprising a band for covering the threaded area of a pipe and having a skirt portion which will extend into the pipe, a strut element extending transversely of the axis of the pipe and bowed rearwardly, and a gripping element on each end of the strut element and extending forwardly, each with its forward end connected to the inner edge of the said skirt, those portions of the gripping elements adjacent to the strut extending axially of the pipe, in position to engage the internal wall thereof, and the forward portions thereof being deflected inwardly, the strut element being bendable toward and past straight-line position to effect expansive movement of the gripping elements.

2,161,198
INSULIN PREPARATION
Laszlo Reiner, Mount Vernon, N. Y., assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 1, 1937, Serial No. 123,487
10 Claims. (Cl. 167—75)

1. A therapeutically active product comprising globin insulinate.

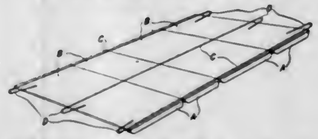
2,161,199
WINDOW REGULATOR FOR A SWINGING WINDOW
Lloyd R. Rhein, Pleasant Ridge, and Alfred S. Greif, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application June 7, 1937, Serial No. 146,724
2 Claims. (Cl. 268—119)

1. In combination with a window panel and frame therefor swingable about an upright axis, a shaft depending from the said frame and rotatable about an upright axis, the said shaft having an integral offset crank portion, a driving spindle having an integral offset crank portion and rotatable about a horizontal axis, bearing supports for said shaft and spindle immediately adjacent each end of said crank portions, a connecting rod interconnecting the said cranks for transmitting the torque from the driving spindle



to the crank shaft for swinging the said window panel, the said driving spindle crank being rotatable through a predetermined range to over-center position in the swinging of the panel to closed position, and a stop for arresting further rotation of the driving spindle crank in the same direction whereby the said drive is irreversible and the swinging window panel is locked in closed position against opening by the application of torque to the window panel.

2,161,200
MACHINE FOR MAKING WIRED BOX PARTS
Alfred L. Rosenmund, Rockaway, N. J., assignor to Stapling Machines Co., a corporation of Delaware
Application April 3, 1937, Serial No. 134,789
38 Claims. (Cl. 140—93)

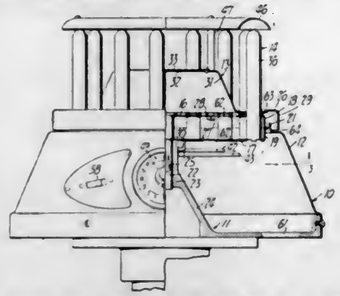


1. A machine for equipping box parts with fastening means comprising instrumentalities operable upon a flexible binder secured to a box part to bend the binder to form thereon a loop or bight adapted to connect the box part with another box part, means to feed the box part to said instrumentalities, and means to interrupt the feed of the box part during an operation of said instrumentalities.

2,161,201
PLASTICIZER
Joseph J. Schaefer, Germantown, Pa., assignor to The Sharples Solvents Corporation, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 9, 1935, Serial No. 15,471
1 Claim. (Cl. 260—110)

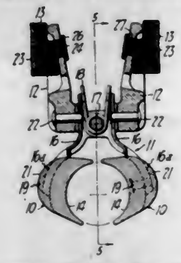
A plastic composition comprising essentially a conversion product obtained by treatment of rubber with chlorostannic acid and an alkyl naphthalene in the alkyl radical of which there are at least four carbon atoms.

2,161,202
HAIR WAVING APPARATUS
Floyd V. Schleimer, San Francisco, Calif., assignor to United States Appliance Corporation, San Francisco, Calif., a corporation of California
Application March 29, 1937, Serial No. 133,532
5 Claims. (Cl. 132—36)



1. A hair waving pre-heater for use in conjunction with a plurality of heat storage devices, said devices each being adapted for application to wound hair, a base support, a structure rotatably carried by said support, and a plurality of electrical heating elements carried by said structure, said element being shaped to enable application of said devices to the same.

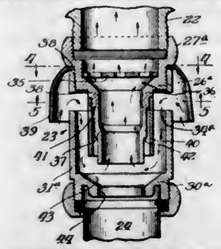
2,161,203
HAIR WAVING DEVICE
Floyd V. Schleimer, San Francisco, Calif., assignor to United States Appliance Corporation, San Francisco, Calif., a corporation of California
Application March 29, 1937, Serial No. 133,533
5 Claims. (Cl. 132—36)



1. A heat storage device for the permanent waving of hair, comprising a pair of opposed heat storage members, a mounting for hingedly connecting said members together, a pair of handles of molded insulating material secured to said mounting whereby said elements can be swung apart by pressing said handles together, and pads of resilient vulcanized rubber secured to said handles and forming finger-gripping surfaces, the outer faces of said pads having a covering of felt.

2,161,204
VACUUM BREAKER
William C. Shanley, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 15, 1935, Serial No. 6,761
7 Claims. (Cl. 137—111)

1. In a vacuum breaker, the combination with a central tubular member adapted to form part of, a conduit and having its lower end forming an orifice through which flushing water is adapted to be discharged downwardly into the conduit, of a casing forming part of the conduit and surrounding the member and spaced away from it at the orifice, said casing having an air inlet or inlets in it where it is spaced away from the member and the lower end of the casing being

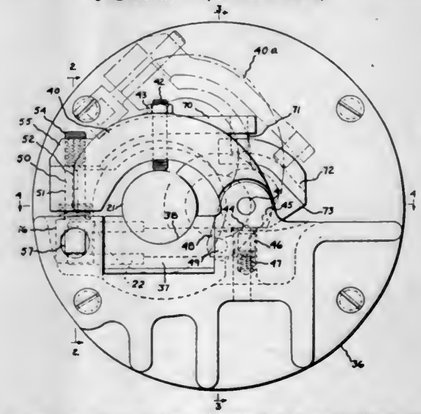


contracted to form an outlet by a tapered portion, and an apron between the member and the casing and having its lower portion spaced from both so as to form an annular passage from the inlets to the orifice and an annular space between the apron and the member into which water from the nozzle hitting the tapered portion will rebound.

2,161,205
INK
William H. Shields, Cincinnati, Ohio, assignor to The Palm Bros. Decalcomania Co., Cincinnati, Ohio, a corporation of Ohio
No Drawing. Original application December 7, 1934, Serial No. 756,505. Divided and this application January 20, 1936, Serial No. 59,896
3 Claims. (Cl. 134—29)

1. A method of changing the color of an ink containing metallic ammonium sulphate compounds selected from the group consisting if iron, manganese and nickel by applying thereto an aqueous solution of an alkaline alkali metal compound selected from the group consisting of an alkali metal carbonate and an alkali-metal silicate.

2,161,206
WORK HOLDER CRANKPIN GRINDER
Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application April 23, 1938, Serial No. 203,837
9 Claims. (Cl. 51—237)



1. A pot chuck for a crankpin grinding ma-

chine having a rotatable head, a partial cylindrical bearing surface fixedly mounted on said head and arranged to support and locate a work piece thereon, a pivotally mounted clamping jaw, a stud pivotally connecting one end of said jaw to said head, and automatically actuated clamping mechanism to clamp the other end of said jaw to said head to secure a work piece in an operative position.

2,161,207
SPRING MOTOR SPEED CONTROL

Raymond D. Smith, Pleasantville, N. Y., assignor to Tremont Products Corporation, Boston, Mass., a corporation of Massachusetts

Application May 6, 1930, Serial No. 450,245
38 Claims. (Cl. 161—1)

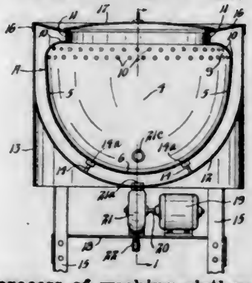


15. In an apparatus adapted to cause other mechanism to operate after a predetermined time interval, a power device, an eccentric operatively connected therewith, an oscillator adapted to be actuated by said eccentric, a balance wheel operatively connected with the oscillator, and means associated with the oscillator for varying the operating period of the apparatus.

2,161,208
WASHING PROCESS

Carl J. Soderholm, Minneapolis, Minn.

Original application November 14, 1935, Serial No. 49,741. Divided and this application October 21, 1936, Serial No. 106,741
2 Claims. (Cl. 8—159)

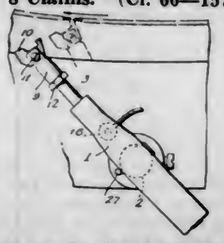


1. The process of washing clothes which consists in introducing into the rear bottom part of a washing tub, containing clothes, a single high pressure stream of a soapy washing fluid drained from the tub while directing the stream along the tub bottom and toward the tub front, deflecting the stream at the top front of the tub rearwardly to move the stream rearwardly toward the tub back and then generally downwardly to the point of introduction and trapping, withdrawing and destroying the sudsy foam formed at the top of the washing fluid by continuously draining off part of the washing fluid through the top of the tub walls by confining the motion of the draining fluid and sudsy foam to a limited upward movement to cause withdrawal of the sudsy foam and thereafter collecting the drained fluid for reintroduction.

2,161,209
ELECTRIC STOP MECHANISM FOR KNITTING MACHINES

Edward Vossen, Brooklyn, N. Y., assignor to Stop Motion Devices Corporation, Brooklyn, N. Y., a corporation of New York

Application January 3, 1939, Serial No. 249,003
8 Claims. (Cl. 66—157)

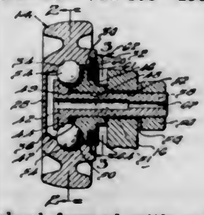


1. In a stop mechanism for knitting machines, a suitable support, a movable member travelling thereon under spring actuation to and from the ring of needles and having in normal operation contact therewith, a source of electrical energy, an electromagnet, a trip actuatable thereby and a contact member in circuit with the source of electrical energy and cooperating with the movable member so that the latter may make the circuit depending on the position of the movable member with reference to the ring of needles, whereby, when the movable member advances into a gap or undue space in the ring of needles the electromagnet is energized and the trip actuated.

2,161,210
ROLLER STRUCTURE

Gerrit Waalkes, Detroit, Mich., assignor to Anchor Steel & Conveyor Company, Detroit, Mich., a corporation of Michigan

Application October 18, 1937, Serial No. 169,617
6 Claims. (Cl. 308—190)

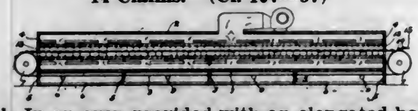


1. A solid wheel formed with one end closed and the other end open and having an axially disposed recess therein opening through said open end, an annular groove formed in said recess at substantially the transverse center thereof forming an outer bearing race, said axle member having one end enclosed within said recess and having one end formed to provide a portion of an inner bearing race, a collar member mounted in embracing relation to said axle member having a portion extending into said recess, said last named portion being formed to provide a complementary portion to said one end of said axle member to complete an inner bearing race, said groove and said inner bearing race forming a ball race, balls within said ball race, and said collar member and said axle member being welded together after assembly by a weld which lies within the peripheral confines of said collar so as not to interfere with the operation of any of the associated parts.

2,161,211
BAKING OVEN

Frank Charles Werner, Grand Rapids, Mich.

Application October 18, 1937, Serial No. 169,609
Renewed March 24, 1939
14 Claims. (Cl. 107—57)



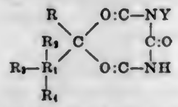
1. In an oven provided with an elongated horizontally located enclosure, an endless belt having the upper run thereof extending through said enclosure, and means to move the belt through said enclosure, means for directing heated air against both the upper and lower sides of the belt comprising, elongated heated air receiving housings, one above and the other below the belt and spaced therefrom, the sides of said housings adjacent the belt approaching nearest to the belt substantially at the longitudinal center line thereof and diverging away therefrom outwardly in both directions, as specified.

2,161,212
SUBSTITUTED BARBITURIC ACIDS CONTAINING QUATERNARY CARBON ATOMS

Frank C. Whitmore, State College, Pa., and Melvin A. Thorpe, St. Louis, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo.

No Drawing. Application November 3, 1934, Serial No. 751,416
5 Claims. (Cl. 260—257)

3. A substituted barbituric acid corresponding to the type formula:



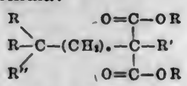
wherein Y indicates a substituent selected from a class composed of hydrogen and the alkali metals, R indicates a substituent selected from a class composed of hydrocarbon radicals, aryl-oxy-alkyls, and alkyl-oxy-alkyls, R_1 is an aliphatic hydrocarbon radical, and R_2, R_3, and R_4 are each alkyls attached to the same carbon atom of R_1.

2,161,213
SUBSTITUTED MALONIC ESTERS

Frank C. Whitmore, State College, David M. Jones, Forty Fort, and Clarence I. Noll, State College, Pa., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

No Drawing. Application February 10, 1936, Serial No. 63,212
4 Claims. (Cl. 260—485)

1. A substituted malonic ester corresponding to the type formula:

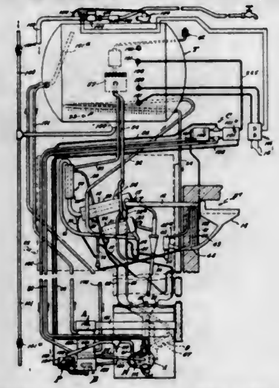


where any R is any alkyl, R′ is a substituent selected from the group composed of hydrogen and hydrocarbon radicals, aryl-oxy-alkyls, and alkyl-oxy-alkyls, R″ is a hydrocarbon radical, and n is at least 1.

2,161,214
COMBINED REFRIGERATING AND WATER HEATING APPARATUS

Lyman F. Whitney and William E. Whitney, Cambridge, Mass., assignors, by mesne assignments, to Stator Corporation, a corporation of Rhode Island

Application February 24, 1938, Serial No. 192,344
19 Claims. (Cl. 62—115)

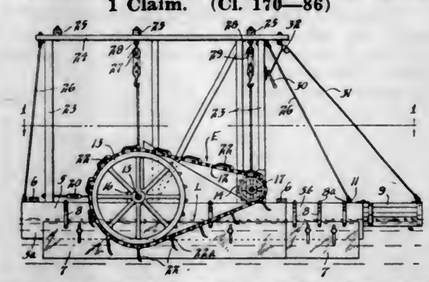


2. Apparatus of the class described comprising a refrigerating system including a burner the operation of which causes circulation of fluid through the system and including a heat dissipator, a hot water tank, said tank and dissipator being arranged in heat transfer relation, an auxiliary heater for supplying additional heat to the tank, and a control device responsive to the temperature of said tank to cause fuel to flow to the auxiliary heater, and means to cause said fuel to be ignited by flame coming from said burner.

2,161,215
WATER CURRENT MOTOR

George W. Wise, Williston, N. Dak.

Application June 1, 1936, Serial No. 82,698
1 Claim. (Cl. 170—86)



In water current motor construction, a pair of spaced pontoons adapted to be moored in a moving stream of water, means connecting said pontoons in spaced relation, said pontoons having substantially parallel opposing walls partially defining an open bottomed sluice in said stream, said pontoons also having upstanding opposed but diverging walls at their forward ends partially defining an entrance portion for said sluice,

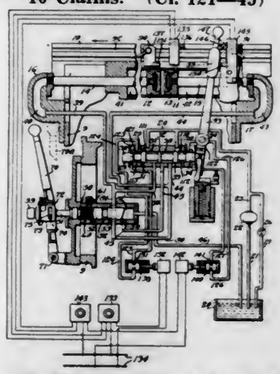
vertically adjustable extensions to said substantially parallel walls and vertically adjustable extensions to said upstanding diverging walls, said extensions cooperating with said respective walls to define said sluice, and said pontoons furnishing a support for an endless water driven member.

2,161,216

HYDRAULIC TABLE RECIPROCATING MECHANISM

Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application August 16, 1937, Serial No. 159,247
10 Claims. (Cl. 121—45)



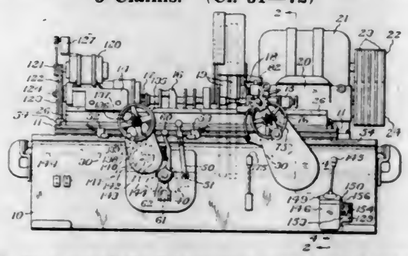
1. In a grinding machine, a longitudinally reciprocable table, means including a fluid pressure piston and cylinder to reciprocate said table, means including a control valve to control the admission of fluid to said cylinder, a lever operatively connected to move said valve, adjustable dogs on said table to move said lever and shift the valve to a central or neutral position to stop the table movement, and an electrically controlled mechanism which is actuated in timed relation with the table movement at either end of its reciprocatory stroke to control the reverse movement of said valve so as to start the table moving in the reverse direction after a predetermined period of dwell.

2,161,217

CRANKSHAFT GRINDING MACHINE

Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application November 18, 1937, Serial No. 175,295
5 Claims. (Cl. 51—72)



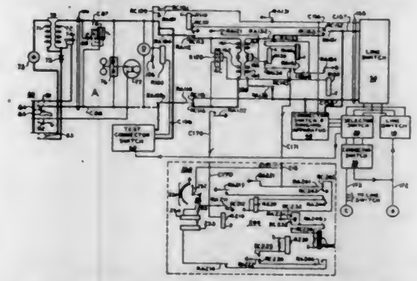
1. In a crankshaft grinding machine, a transversely movable rotatable grinding wheel, means including a fluid pressure piston and cylinder to move said wheel transversely in either direction, a control valve to control the admission of fluid to said cylinder, a rotatable work support including a headstock and a footstock, means including an electric motor to drive said headstock, a switch to start said motor, a main control lever which is operatively connected when moved in one direction to actuate said switch to rotate said headstock and when moved in a second direction to actuate said control valve to cause a forward or rearward movement of the grinding wheel, and means including a latch to hold said lever in a position to maintain said switch closed during the infeeding movement of the grinding wheel, said parts being arranged to prevent stopping of said motor except when said wheel has moved rearwardly out of operative engagement with the work piece.

2,161,218

RURAL LINE REPEATER

Carl Oman Wright, Chicago, and Edward Sigford Peterson, Elmwood Park, Ill., assignors to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application March 16, 1938, Serial No. 196,114
19 Claims. (Cl. 179—17)



1. In a telephone system, an exchange, a non-numerical switch and a plurality of numerical switches located in said exchange, a repeater, a trunk line terminating at one of said numerical switches and at said non-numerical switch, said trunk line extending to said repeater, a subscriber's line extending to said repeater, a plurality of substations associated with said line, means comprising alternating current generators individually provided at said substations for signaling between said stations on reverting calls, means responsive to the operation of any one of said generators for opening a point in said trunk line, thereby to prevent said non-numerical switch from being seized, means also responsive to the operation of any one of said generators for marking said trunk line as busy, thereby to prevent said subscriber's line from being seized by said numerical switch, a relay in said repeater and operative to complete a loop circuit to said non-numerical switch thereby to cause said non-numerical switch to extend the loop circuit to one of said numerical switches, an operating circuit for said relay, and means individually provided at certain of said substations for completing said operating circuit.

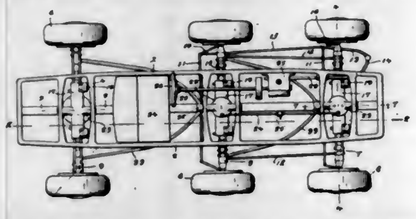
2,161,219

PRISMATIC FRAME AND FLOATING BODY

Joseph Spalding Abell, Louisville, Ky., assignor of one-half to Dale Franklin Abell, Louisville, Ky.

Application May 19, 1937, Serial No. 143,595
3 Claims. (Cl. 280—112)

1. In combination with a running gear including wheels, axles supported thereby and springs supported by said axles, a vehicle frame of substantially triangular shape in cross section mounted on said running gear with the apex thereof disposed lowermost, pivotal means connecting the frame with the springs and located parallel with the longitudinal axis of the frame



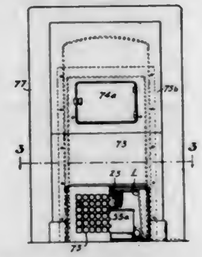
to permit side tilting of the frame, said pivotal means including base members paralleling the springs and secured thereto, shock absorbers connecting the base members of said pivotal means and the axle, and shock absorbers connecting the frame and the base members of said pivotal means at opposite sides of the longitudinal axis of the frame.

2,161,220

OIL BURNING APPARATUS

Reginald W. Beckett, Rocky River, Ohio, assignor to Cleveland Steel Products Corp., Cleveland, Ohio, a corporation of Ohio

Application August 11, 1936, Serial No. 95,395
7 Claims. (Cl. 158—4)



1. Apparatus of the character described comprising a furnace unit having a wall defining the sides of a combustion chamber, said wall having an opening therein approximating the width of said chamber, and a hearth structure movable as a unit through said opening to form the bottom of said combustion chamber, said furnace unit also having a removable wall member arranged to cooperate with the sides of said opening to form a continuation of said wall across said opening.

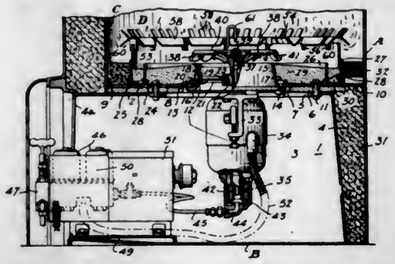
2,161,221

OIL BURNING APPARATUS

Reginald W. Beckett, Rocky River, Ohio, assignor to Cleveland Steel Products Corp., Cleveland, Ohio, a corporation of Ohio

Application August 11, 1936, Serial No. 95,396
5 Claims. (Cl. 158—4)

1. In oil burning apparatus of the rotary wall flame type having an upright combustion chamber wall and a centrally disposed rotary means for discharging oil and air toward said wall, a hearth and flame producing structure comprising a hearth body disposed below the path of discharge of the oil and air and extending from said rotary means to said wall, a one-piece, imperforate band of metal extending upwardly from said hearth for intercepting and, when heated, for vaporizing the oil discharged from said means, said band being of uniform inside diameter throughout its height and being spaced inwardly of said wall to provide an annular chamber therebetween, and horizontally arranged means disposed above said band in spaced relation for directing air and vaporized oil in a substantially



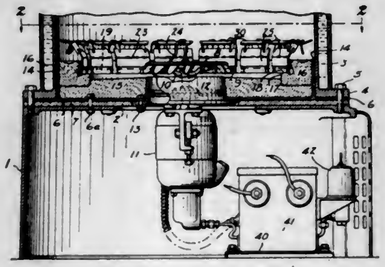
horizontal direction outwardly over said annular chamber, said horizontally arranged means comprising a plurality of deflecting elements spaced in endwise relation with respect to each other, each of said elements including a continuous imperforate portion extending inwardly and downwardly with respect to said band and an integral continuous imperforate portion disposed at right angles to and overlying said band in spaced relation.

2,161,222

OIL BURNING APPARATUS

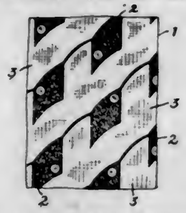
Reginald W. Beckett, Elyria, Ohio, assignor to Cleveland Steel Products Corp., a corporation of Ohio

Application March 14, 1938, Serial No. 195,908
8 Claims. (Cl. 158—4)



1. Oil burning apparatus comprising a combustion chamber having an upright wall, a hearth extending to the periphery of said chamber, oil and air projecting means above said hearth for discharging oil and air toward said upright wall, means adjacent said wall having an oil vaporizing wall inwardly of said upright wall and facing said projecting means for intercepting and vaporizing the oil discharged from said projecting means, and baffle means immediately in front of said vaporizing wall and having the lower edges thereof slightly above the path of oil discharged from said projecting means for protecting said vaporizing wall from direct impact of a large portion of the air discharged from said projecting means and for directing the said portion of the air upwardly over said vaporizing wall and outwardly into the oil vapor passing from said vaporizing wall.

2,161,223
PRODUCTION OF TEXTILE FABRICS IN FORMED PRINTED PATTERNS
Christian Bener, Chur, Switzerland, assignor to the firm Raduner & Co., A. G., Horn, Switzerland
Original application October 4, 1934, Serial No. 746,932. Divided and this application February 28, 1938, Serial No. 193,211. In Switzerland October 14, 1933
5 Claims. (Cl. 41—17)

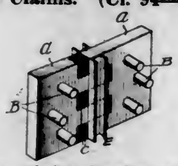


1. Process for producing substantially permanent calender finish effects in pattern form on cellulose tetxile fabrics, comprising printing the pattern on the fabric with a solution of the components of a resin capable of being hardened by heat treatment, drying the fabric slightly or to a moist condition, then changing the form and relative disposition of the fibers to impart to the slightly moist fabric and altered texture by subjecting the fabric to a hot calender treatment, thereupon subjecting the calendered fabric to a heat treatment to harden said resin in the printed portions of the fabric completely up to the final state, then subjecting the heat treated fabric to a washing that removes the calender effect from the unprinted portion of the fabric, leaving the calender effect only on the printed portion, which calender effect is substantially fast to water or repeated washings with soap and water.

2,161,224
MANUFACTURE OF ARTICLES MOLDED FROM CELLULOSIC FIBROUS PULP
Ivar Bjarne Berghoff, Stockholm, Sweden
No Drawing. Application February 15, 1937, Serial No. 125,928. In Sweden February 18, 1936
5 Claims. (Cl. 18—48)

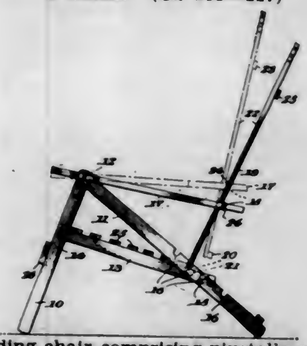
1. A process for the manufacture of molded articles, which comprises mixing a cellulosic fibrous material with alum and a binding substance having hydrophobe character so as to form a finely divided mixture, forming sheets of said mixture and drying said sheets, subjecting said dried sheets to such a mechanical treatment as to cause the fibres to be re-loosened, at least in part, while forming a wool-like product, mixing a quantity of said product with a quantity of a binding agent, and forming the mass thus obtained into desired shape under heat.

2,161,225
BRIDGED LOAD EXPANSION PLATE
Albert C. Fischer, Chicago, Ill.
Application February 28, 1935, Serial No. 8,719
8 Claims. (Cl. 94—18)



1. Expansion plates having extension fingers provided with slidably interlocking means, the plates as a load bridging means between adjacent expansion plates having anchoring devices, sponge rubber cushioning devices and guides on the sides thereof for the reception of a transverse sectional member, such as expansion joints or plates.

2,161,226
CHAIR
Harry A. Freedman, Brooklyn, N. Y.
Application June 18, 1937, Serial No. 149,003
1 Claim. (Cl. 155—117)



A folding chair comprising pivotally connected front and rear legs, a seat pivotally connected to the front legs and having its rear end releasably and adjustably engaging said rear legs, a back rest, an arm rest connecting the front legs and intermediate portion with the back rest, said seat being provided with side rails having notches in their upper edges, said back rest having its free lower end portion provided with a cross member with ends projecting laterally from the back and detachably disposed in said notches and seat side rails whereby a collapsible chair is provided having a seat releasably and adjustably supported by the rear legs, and a back rest releasably supported by the seat.

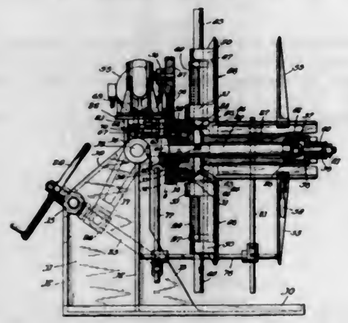
2,161,227
TOOL
John Shaffer Houston, Waverly, Ala.
Application July 2, 1937, Serial No. 151,748
1 Claim. (Cl. 29—85)



A tool of the class described comprising a base having a plurality of elongated slots therein, some of the slots being parallel to other of the slots and one slot extending at right angles to

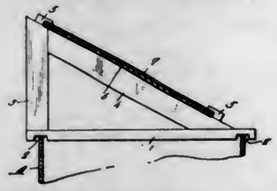
the other slots, adjustable legs threadedly mounted in said base, arms of a width to extend through the slots, cross pins on said arms engaged beneath the base for securing the arms thereto for swinging and sliding movement, a member adapted for engagement with the work, hooks on the other ends of the arms engageable with said member, the hook portion of each arm being of reduced thickness to form shoulders at the junction of the reduced part with the rest of the arm, below the hooks, said shoulders forming seats for the work engaging member, a jack mounted on the base and including a tubular piston, and a rod removably mounted in said piston and operatively engageable with the work.

2,161,228
AUTOMATIC REEL
Frederick M. Littell, Chicago, Ill., assignor to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois
Application August 27, 1936, Serial No. 98,112
6 Claims. (Cl. 242—78)



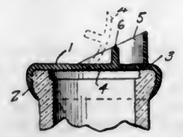
2. A device for supporting coils of stock including in combination, a support, a shaft supported thereby having a reel rotatable thereon, said reel including a spindle, a plurality of rods extending radially therefrom, actuating means rotatably mounted on each rod, and a supporting arm associated with each rod for supporting the coil of stock, each arm being slidably mounted on its rod and having connection with the actuating means, a gear rotatably mounted on said spindle for simultaneously rotating the actuating means for said supporting arms, and an electric motor supported by the reel for rotating the gear.

2,161,229
SQUEEGEE RACK FOR PHOTOSTAT MACHINES
Lynn Milne, Sturgis, S. Dak.
Application February 25, 1938, Serial No. 192,655
2 Claims. (Cl. 95—89)



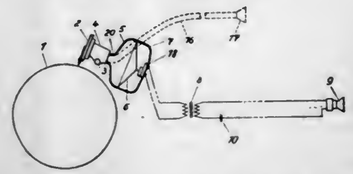
1. A device of the class described comprising a skeleton frame having parts for resting upon a tray and a sloping part, a plate resting on the sloping part for supporting prints and enabling a squeegee to be passed over the prints to press the solution therefrom inwardly of the outermost extremities of those parts of the frame resting on the tray.

2,161,230
CONTAINER CLOSURE
Curtis O. Nelson, Belleville, Ill.
Application July 29, 1938, Serial No. 222,024
3 Claims. (Cl. 215—100)



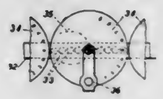
3. A closure for a container and being formed from elastic material to provide a top wall, a flange formed on and depending from the outer edges of the top wall and providing a skirt for securing the closure to the container, said top wall being split in V-shaped formation to provide a pouring opening and a valve normally closing the opening and held accordingly by the inherent nature of the elastic material, the walls of the slit being disposed at an inward angle to set up a sealing action between the valve and its opening and to prevent the valve from dropping into the container, said valve being movable to open position by the contents of the container when the latter is tilted for pouring the contents therefrom, a pouring spout formed on and rising from the top wall from the edges of the opening to follow the shape thereof, said pouring spout being made up of converging walls having inclined upper edges to provide a pointed outer end for the spout, and a knob formed on and rising from the valve to provide a handle for manually moving the valve to open position.

2,161,231
ACCESSORY ATTACHMENT FOR SOUND RECORDING APPARATUS
Leopold Neumann, Vienna, Austria, assignor to the firm Ronag A. G., Chur, Switzerland, a company of Switzerland
Application February 24, 1937, Serial No. 127,546
In Austria February 1, 1937
2 Claims. (Cl. 179—100.41)



1. In a device for recording sound, a tubular member, a sound box carried by said member at one of its ends, the other end of said member having a socket, a sound conducting chamber having a neck to fit into the socket of said tubular member and be removably held therein, a diaphragm in said chamber, and an electromagnetic diaphragm-operating device mounted in said chamber, said chamber diaphragm and said diaphragm-operating device comprising a unitary structure.

2,161,232
TELEPHONE APPARATUS
Leopold Neumann, Vienna, Austria, assignor to the firm Ronag A. G., Bahnhofplatz, Chur, Switzerland, a Swiss company
Application March 19, 1937, Serial No. 131,949
In Austria May 22, 1936
7 Claims. (Cl. 179—90)



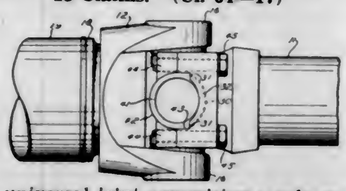
1. In means for setting the switch stops of quick selectors for putting through telephone calls in automatic telephone systems, the combination with a switch stop carrier having a set of stops, of a template having a set of stops corresponding to the number to be called and arranged to cooperate with the stops of said switch stop carrier, and means for setting selected stops on said template to give the number desired to be called, in virtue of all of which, when said template is set down on one of the switch stop carriers of the selector, the elements of said carrier which come under the influence of the selected stops that have been set will be set to their operative positions.

2,161,233
WELL TESTING DEVICE
Frank E. O'Neill, Glendale, Calif., assignor to Mordica O. Johnston, Glendale, Calif.
Application May 17, 1937, Serial No. 143,022
4 Claims. (Cl. 166—1)



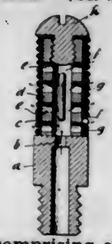
1. A well testing device comprising a packer adapted to be seated within a well bore and having a passageway therethrough, a perforated anchor pipe carried at the lower end of the packer and communicating with said passageway, a tubular housing connected to the packer and disposed thereabove, said housing having a fluid passageway therethrough in communication with the packer passageway, pressure recording means mounted within the fluid housing lowered therein and around which fluid may flow as it passes through the housing, a valve structure disposed above said pressure recording device and controlling the flow of fluid through the fluid housing, and a string of pipe connected to the valve structure and into which the valve controlled fluid flows.

2,161,234
UNIVERSAL JOINT
Joseph E. Padgett, Toledo, Ohio
Application February 17, 1937, Serial No. 126,268
15 Claims. (Cl. 64—17)



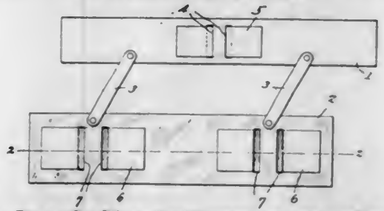
1. A universal joint comprising a yoke member having spaced arms provided at their extremities with laterally open axially aligned bearing recesses, a spider, trunnions on said spider, bearing elements on said trunnions arranged to fit within said recesses oppositely disposed lugs projecting substantially laterally from said bearing elements, and means to engage said lugs to secure said bearing elements in said recesses.

2,161,235
ATOMIZER OR DISPERSING DEVICE
Hermann Schlagintweit, West Orange, N. J., assignor to George Schlagintweit, West Orange, N. J.
Application March 5, 1937, Serial No. 129,126
1 Claim. (Cl. 299—141)



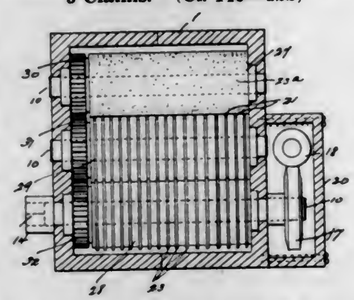
An atomizer comprising a threaded stem having a primary atomizer opening, a perforated tube on said stem having a plurality of laterally disposed openings acting as a preliminary fuel filter, a spiral spring wound about said body, the openings in said body and the interstices between the individual convolutions of said spring serving as atomizing agents, said perforated tube adjustably secured to said stem and a screw cap on said body acting as agents for regulating the distance between the individual convolutions of the spring acting as atomizer openings for regulating the fineness of the atomized fuel spray.

2,161,236
DRAFTING INSTRUMENT
Albert Edward Shaw, Chicago, Ill.
Application April 8, 1938, Serial No. 200,982
4 Claims. (Cl. 33—108)



4. In a drafting instrument, a pair of members, flexible link connections between the members, each of said members having slots therein, said slots being disposed in pairs, and a tape threaded through the slots of each pair, each tape having an adhesive on one surface constituting means for affixing the end portions of the tape to one side of the member on which it is mounted while the adhesive surface of the tape is exposed between the slots and at the other side of the member.

2,161,237
COMBINATION SLICING AND SHELLING MACHINE
Loukas Skliris, Belmar, N. J.
Application November 9, 1937, Serial No. 173,705
5 Claims. (Cl. 146—122)



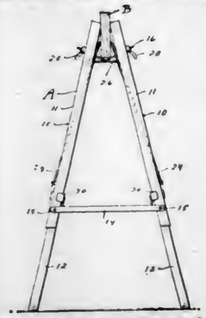
3. A combination kitchen utensil comprising a frame, a plurality of spaced, parallel shafts mounted in said frame in vertical alignment, means for actuating said shafts, transmission means to cause said shafts to rotate in unison, the lowermost shaft carrying a series of spaced apart circular knives, the uppermost shaft carrying a resilient platen or drum, and the intermediate shaft carrying a drum formed with alternating grooves and ribs; the ribs contacting the surface of the resilient platen or drum, and the grooves receiving the cutting edges or peripheral edges of the knives whereby said intermediate drum cooperates with the resilient drum and the member carrying the knives for the purpose defined.

2,161,238
PRESERVE BASE
James H. Stanton, Vancouver, British Columbia, Canada
No Drawing. Application July 7, 1937, Serial No. 152,454. In Canada February 8, 1937
3 Claims. (Cl. 99—129)

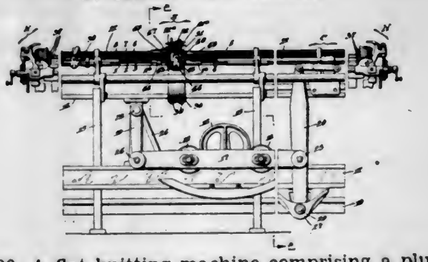
1. Process for making a marmalade base comprising essentially concentrating fruit juice, further dehydrating the fruit juice by bringing it into moisture-exchanging relation with a mass of anhydrous dextrose, the proportion of anhydrous dextrose being such as to form with the concentrated fruit juice a thick plastic body, making fruit pieces heavier than normal by impregnating them with glycerine, and incorporating the fruit pieces thus treated into said body.

2,161,239
SUPPORT FOR SCAFFOLDS
Peter Thomson, Wilmington, Del.
Application January 4, 1938, Serial No. 183,373
9 Claims. (Cl. 304—5)

1. A foldable trestle including a pair of upwardly converging supports providing beam engaging edges at their upper ends, a solid cross bar pivoted at its ends to the lower portions of the supports, a tie rod connecting the supports adjacent their upper ends and having a beam rest portion preventing canting of the beam, and adjusting means at each end of the tie rod for adjusting the rod longitudinally and vertically positioning the beam in a true on-edge position between the upper ends of the support.



2,161,240
YARN CARRIER ROD STOP MECHANISM FOR STRAIGHT KNITTING MACHINES
Rudolph Anke, Reading, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application March 28, 1935, Serial No. 13,469
20 Claims. (Cl. 66—129)

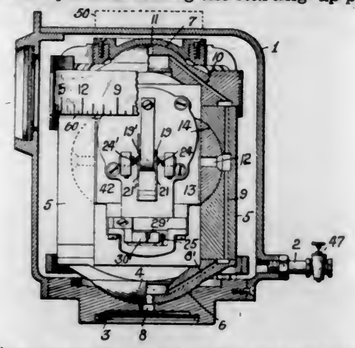


20. A flat knitting machine comprising a plurality of parallel adjacent longitudinally reciprocable elongated yarn carrier rods, a stationary support bracket having a portion extending transversely to the rods adjacent thereto between the ends thereof, a shaft supported by the bracket parallel to said transverse bracket portion thereabove, stops including one for each rod pivoted on said shaft, each of certain of said stops including a handle at one end and an adjustable contact element at its other end and being movable between operative and inoperative positions against said transverse bracket portion, respectively, at opposite sides thereof, a spring extending between the bracket and one of the stops for biasing the latter against said transverse bracket portion, an element on the rod corresponding to the spring biased stop for lifting the stop against the spring bias from stopping to releasing position, and an element on another of the rods upon which the spring biased stop rests in a given position of said other rod.

2,161,241
QUICK SETTING MEANS FOR DIRECTIONAL GYROSCOPES
Mortimer F. Bates, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application November 24, 1936, Serial No. 112,489
11 Claims. (Cl. 33—222)

7. In a slave directional gyroscope having a rotor and spinning means therefor, means apply-

ing a torque on said gyroscope for slowly precessing the gyroscope into a desired position, and means for accelerating such precession toward the desired position during the starting-up period,



including means for reducing the relative strength of the gyroscopic moment with respect to the setting torque and means for limiting the period of operation of said second named means approximately to said starting-up period.

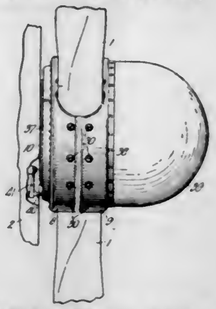
2,161,242

ICE INHIBITING ASSEMBLY FOR AIRPLANES

Edward B. Benson, Kansas City, Mo., assignor to The Benson Mfg. Co., Kansas City, Mo., a corporation of Missouri

Application February 26, 1938, Serial No. 192,837

6 Claims. (Cl. 244—134)



1. In combination with an airplane propeller having a hub and blades, adapters secured to said hub and extending between said blades, a first mounting ring, spring and cam fastening means for flexibly securing said first ring to said adapters, an ice inhibiting fluid distributing manifold carried by said first ring, a duct adapted to lead ice inhibiting fluid into said manifold, ducts carried by said adapters and communicating with said manifold for distributing ice inhibiting fluid from said manifold to points adjacent respective bases of the propeller blades under the action of centrifugal force, a second mounting ring, spring and cam fastening means for flexibly securing said second mounting ring to said adapters, and a hub cap secured to said second mounting ring.

2,161,243

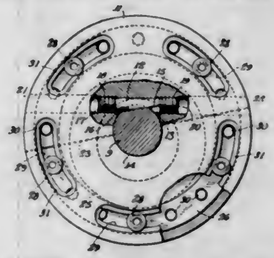
SPLIT CAM

Alwyn E. Borton, South Orange, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey

Application September 14, 1937, Serial No. 163,730

5 Claims. (Cl. 74—567)

1. A "split cam", comprising an originally integral cam disc broken across the line of least cam pressure and the broken parts re-engaged in the original relation, said cam disc parts having an annular rib on the back of the same and screw seats in said annular rib portion, a mount-



ing plate having an annular groove receiving said cam disc rib and arcuate slots in line with said screw seats, bolts extending through said slots into said screw seats and keying means for said mounting disc.

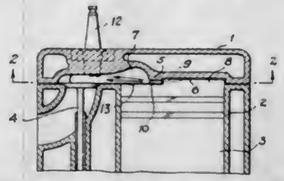
2,161,244

INTERNAL COMBUSTION ENGINE CHAMBER

James P. Burke, Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich.

Application March 16, 1938, Serial No. 196,102

8 Claims. (Cl. 123—191)



1. A head for the cylinder of an engine, said head having a combustion chamber with a transverse wall depending from the roof thereof directly above the cylinder, and dividing the combustion chamber into two compartments, one of said compartments being heart shaped in bottom plan view with its tip being nearest the other of said compartments, the other of said compartments having the shape of the sector of a circle in bottom plan view, said transverse wall being cut away from the tip of the heart to the interior of said sector to form a restricted passageway between said compartments.

2,161,245

PROCESS OF LOWERING SULPHUR VISCOSITY AND RESULTING NONVISCOUS SULPHUR COMPOUND

Gordon A. Cain and John B. Chatelain, Freeport, Tex., assignors to Freeport Sulphur Company, Freeport, Tex., a corporation of Delaware

No Drawing. Application December 4, 1937, Serial No. 178,068

4 Claims. (Cl. 255—1)

1. A method of drilling wells which comprises preparing a drilling fluid which contains molten sulphur and an admixture in excess of one-tenth of one per cent. of an olefine polysulphide polymer, whereby the viscosity of the sulphur is greatly reduced at temperature in excess of 320° F., then drilling and pumping the prepared drilling fluid into the bore being drilled.

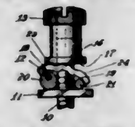
2,161,246

ELECTRIC TERMINAL

John E. Carlson, Forestville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut

Application December 22, 1937, Serial No. 181,062

3 Claims. (Cl. 173—259)



1. A binding post including a stationary base plate having a screw threaded post projecting rigidly therefrom, a clamp plate loosely mounted on said post so as to permit it to tilt, said clamp plate having a central rib and a somewhat lower rib at each of the opposite sides of the central rib, said side ribs being spaced apart and having grooves under the side ribs at opposite sides of the post with their inner edges substantially tangent to the sides of the post for forcing conductor wires against the sides of the post and a clamp nut having a base portion of greater diameter than the distance between the tops of the side ribs so that the base portion of said clamp nut can bear upon the top portion of the central rib of the clamp plate and also upon the top portion of one of the side ribs when a wire conductor is located beneath one side of the clamp plate and the clamp plate is tilted and force the wire or wires against the base plate and the post.

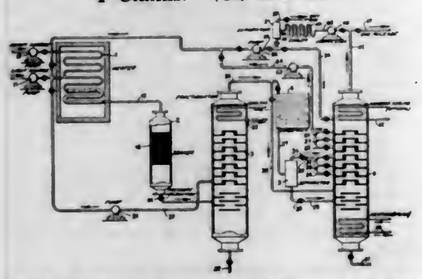
2,161,247

TREATING HYDROCARBON OIL

Richard J. Dearborn, Summit, N. J., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Continuation of application Serial No. 630,169, August 24, 1932. This application June 12, 1936, Serial No. 84,791

4 Claims. (Cl. 196—9)



1. The method of producing a high anti-knock gasoline that comprises passing a heavy hydrocarbon oil through a heating zone, admixing lighter hydrocarbon oil and already formed normally gaseous hydrocarbons, thereafter commingling said mixture, without heating thereof, with said heavy hydrocarbon oil, subjecting said commingled hydrocarbons in a heating zone to elevated temperature while under a relatively high pressure to effect conversion of the hydrocarbons into gasoline of high anti-knock value, separating said gasoline and normally gaseous hydrocarbons from the conversion products, further separating the normally gaseous hydrocarbons into heavy and light portions, and returning at least a part of the heavy portion for subjection to said elevated temperature and high pressure.

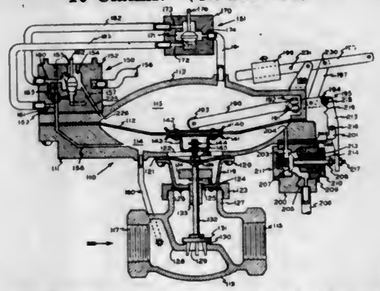
2,161,248

CONTROL DEVICE

Frederick S. Denison and Carl G. Kronmiller, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 20, 1934, Serial No. 758,416

10 Claims. (Cl. 236—84)



2. In combination, a burner, a valve in control of the supply of fuel to the burner, an air damper in control of the supply of air to the burner, a flare pilot valve, a pressure motor having a wall movable to first and second positions, connections between said movable wall, fuel valve, air damper, and flare pilot valve operable to open the fuel valve and air damper and momentarily to open said flare pilot valve upon movement of the wall from said first position to said second position, and means in control of said motor.

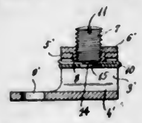
2,161,249

TERMINAL SCREW LUG

Abraham Bernard Dibner, Peekskill, N. Y., now by judicial change of name Bern Dibner, assignor to Burndy Engineering Co., Inc., New York, N. Y., a corporation of New York

Application July 9, 1935, Serial No. 30,429

9 Claims. (Cl. 173—269)



1. An electrical terminal for electric cables comprising a substantially rigid body made from a T-shaped blank of sheet metal, the side wings bent into a tubular shaped body having a bottom and side walls, and overlapping apertured ends forming the top portion, the leg of the T forming a flat terminal place, and a clamping screw threadedly engaging at least one of the apertures in the ends and passing through the other aperture for compressing a cable longitudinally into the connector body.

2,161,250

KNITTING MACHINE

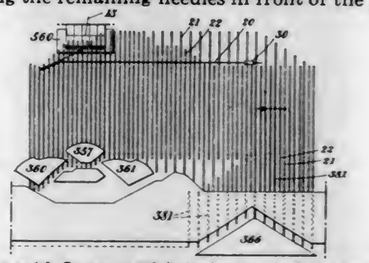
James L. Getaz, Maryville, Tenn.

Original application December 10, 1935, Serial No. 53,824. Divided and this application May 4, 1937, Serial No. 140,587

3 Claims. (Cl. 66—9)

1. A seamless knitting machine having a single circular series of independently operable needles, knitting cam mechanism for knitting plain knit fabric on all the needles of the machine, a throat plate provided with means for feeding inelastic yarn to the hooks of all the needles, a feeding

finger having a yarn feeding part located in advance of the throat plate and movable into and out of operative position, for feeding an elastic yarn to the needles, means for raising selected needles adjacent to said finger to receive the elastic yarn below the latches thereof, means located between said yarn finger and the throat for raising the remaining needles in front of the yarn



fed by said finger and interlacing said yarn with the needles, the friction of the needles with the interlaced portions of the elastic yarn enabling the needles to carry said yarn past the throat plate and knitting cam mechanism, and permitting the starting of knitting on bare needles, and means for moving said finger into and out of operative position.

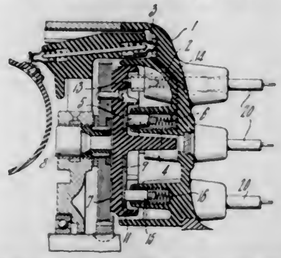
2,161,251

IGNITION DISTRIBUTOR

Robert H. Gibson, Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York

Application November 6, 1937, Serial No. 173,073

1 Claim. (Cl. 200—24)



In an electrical distributor, a rotating member of insulating material having a conducting member extending from a central distribution point to a distribution path in registry with a spark plug lead, an electrical connection continuously in contact with said rotating member, a carbon brush associated with said spark plug lead in continuous engagement with said rotating member for making intermittent electrical contact with said conducting member, and means comprising a stationary non-cutting scraper of insulating material spring-pressed into continuous engagement with the rotatable member and positioned to remove the carbon as it is smeared thereon by the carbon brush.

2,161,252

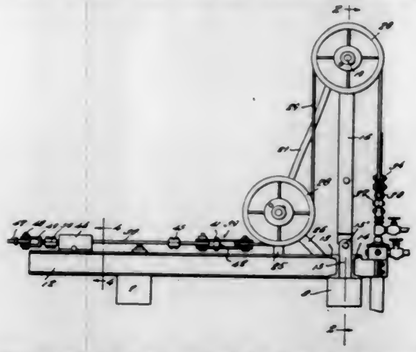
PUMP JACK

Fred D. Gunsaullus, Pampa, Tex., assignor of one-half to Letitia Gantz, Pampa, Tex.

Application November 20, 1937, Serial No. 175,724

2 Claims. (Cl. 74—103)

1. In a pump jack of the class described, a frame, upper and lower pairs of pulleys carried by the frame, a cross head connected with the pump rod, a flexible member having its ends connected with the ends of the cross head, the two parts of the flexible member passing upwardly over the upper pair of pulleys and then downwardly under the lower pair of pulleys, a supporting member, a pulley carried thereby and around which the flexible member passes, a



reciprocating rod supported for horizontal movement on the frame and having one end connected with the supporting member, means for reciprocating the rod, a guide on the frame through which the rod passes, a grooved sheave in the guide, through the groove of which the rod passes, and adjustable stops on the rod, one on one side of the guide and the other on the opposite side of the guide.

2,161,253

SILVER CONTACT

Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application August 6, 1938, Serial No. 223,506

4 Claims. (Cl. 200—166)

1. An electrical contacting member formed of an alloy containing as an essential ingredient, silver to which has been added magnesium, in quantities ranging from .05 to 20%.

2,161,254

SILVER-MAGNESIUM CONTACT

Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application March 18, 1939, Serial No. 262,727

4 Claims. (Cl. 200—166)

1. An electric contact formed of an alloy of 2 to 3.8% magnesium and the balance silver.

2,161,255

METHOD OF AND MACHINE FOR FORMING GLASSWARE

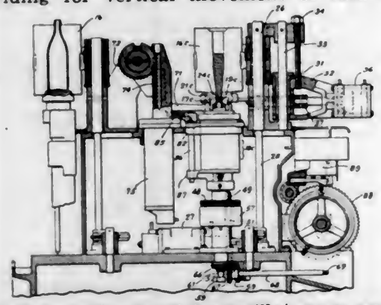
George E. Howard, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application October 9, 1936, Serial No. 104,820

8 Claims. (Cl. 49—9)

8. In a narrow neck machine comprising a tapered blank mold a blow mold and a neck mold, means including an arm for oscillating

and inverting the neck mold to transfer a blank, means for cracking the blank mold to reheat the blank prior to transfer thereof, and means providing for vertical movement of said neck



mold independently of its oscillatory movement and axially of the blank mold so as to move the blank toward the large end of the blank mold whereby pinching of the blank by the closing of the blank mold is prevented.

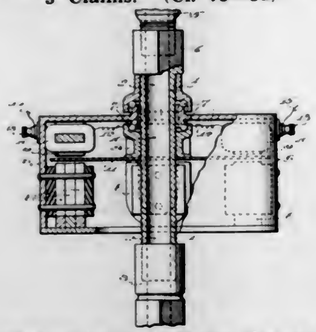
2,161,256

APPARATUS FOR DETERMINING THE HARDNESS OF SUBSURFACE FORMATIONS

John C. Karcher, Dallas, Tex., assignor to Geophysical Service, Inc., Dallas, Tex., a corporation of New Jersey

Application April 27, 1936, Serial No. 76,582

3 Claims. (Cl. 73—51)



1. Apparatus for determining the variation in hardness of earth formations encountered by a rotary drill bit while drilling, said apparatus including a conducting disc rigidly and co-axially attached to the drill stem, a stationary electrically conducting coil and a permanent magnet adjacently arranged and positioned near the periphery of said disc, and a similarly arranged coil and permanent magnet positioned on the opposite side of said disc.

2,161,257

PRESS

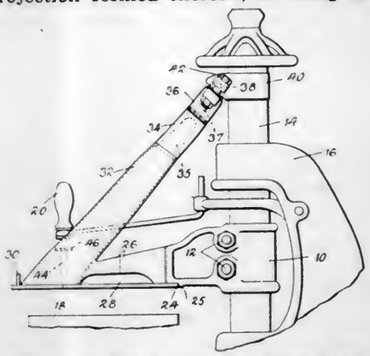
Frank Bycroft Keall, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application June 23, 1938, Serial No. 215,468

In Great Britain October 4, 1937

10 Claims. (Cl. 164—23)

7. In a clicking machine having a work support and a vertically reciprocable post, a presser member comprising a hub portion supported on the post, a plate of sheet steel welded at one end to said hub portion and extending parallel to the surface of the work support, a pair of tapered tubular struts arranged side by side and having their larger lower ends welded to the upper surface of the plate adjacent to the other end thereof, said struts being straight and extending upwardly at inclinations toward each other and toward the post, a fitting on the upper ends of the struts having a central rounded projection formed thereon, a fitting on the



post having a socket formed therein and engaged by said projection, bolts holding said fittings together, and a plurality of sheet metal reinforcing flanges welded edgewise to the upper surface of the plate, said flanges comprising longitudinal side flanges, an end flange and diagonal cross flanges, said cross flanges being also welded vertically to each other, to the hub portion and respectively to said struts.

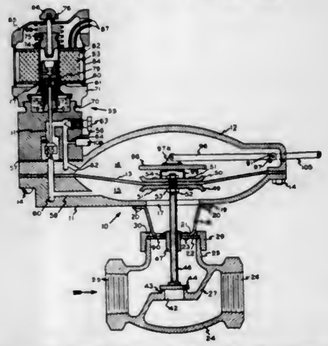
2,161,258

MOTOR OPERATED CONTROL MECHANISM

Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 20, 1934, Serial No. 758,415

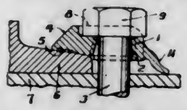
4 Claims. (Cl. 236—84)



4. In combination, lower and upper casing members, a diaphragm sealed therebetween to form upper and lower pressure chambers, a valve casing secured to said lower casing, a valve in said valve casing, connections between said valve and diaphragm such that movement of said diaphragm by reason of a change in the pressure differential on opposite sides thereof causes movement of said valve between open and closed positions whereby said diaphragm, said valve, and said connections therebetween form a movable assembly, a damper actuating lever pivotally ex-

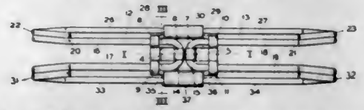
tending through one of said casing members and having a substantial portion thereof pivotally movable within said casing member, yieldable means urging said portion of said actuating lever into engagement with a portion of said movable assembly so that upon movement of the diaphragm in one direction, said portion of the actuating lever is positively moved in the same direction and upon movement of the diaphragm in the other direction, said portion is moved in said other direction only by the action of said yieldable means.

2,161,259
HOOK ADAPTER
Henry Lindsay, Bradford, England, assignor to Henry Lindsay Limited, Bradford, England
Application March 28, 1938, Serial No. 198,564
In Great Britain July 14, 1937
7 Claims. (Cl. 189—35)



7. In combination with two members, fastening means for firmly securing the members together, said means including a clamp having a rigid projection on one side for engaging one of said members and a depending flexible spur on the side opposite to said projection for engaging the other of said members, said spur being of thinner material than the body of the clamp and arranged to bear against the surface of the spur engaging member, and means for securing the clamp to said members, said spur when the clamp is being applied to said members bearing against the spur engaging member to provide a support for the side of the clamp opposite the rigid projection.

2,161,260
SAFETYPIN
Jessie Mattfeldt, San Francisco, Calif.
Application April 11, 1938, Serial No. 201,347
3 Claims. (Cl. 24—87)

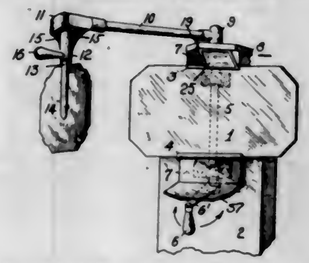


1. A double ended, duplex safety pin comprising two lengths of wire having sharpened ends and coiled back upon themselves on opposite sides of their central portions respectively; a clip fixed to said central portions and extending partially around said coils; and keepers on said clip adapted to engage said ends.

2,161,261
PARASITICIDE
Jacob M. Schaffer, Laurel, Paul D. Harwood, College Park, and Everett E. Wehr, Takoma Park, Md.; dedicated to the free use of the People in the territory of the United States
No Drawing. Application November 29, 1938, Serial No. 242,930
4 Claims. (Cl. 167—53.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

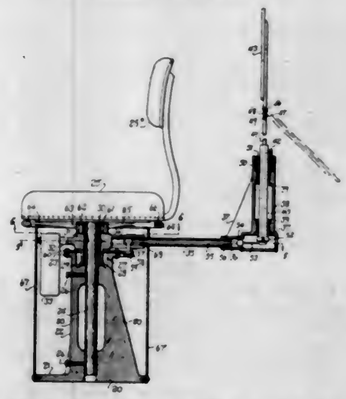
1. A parasiticide adapted for pharyngeal administration to birds affected with gapeworms, said parasiticide containing as its essential active ingredient a sparingly soluble metallic antimonyl tartrate.

2,161,262
POSE REFLECTING APPARATUS
Luther G. Simjian, New Haven, Conn., assignor to Reflectone Corporation, New Haven, Conn., a corporation of Delaware
Application July 30, 1936, Serial No. 93,343
4 Claims. (Cl. 88—84)



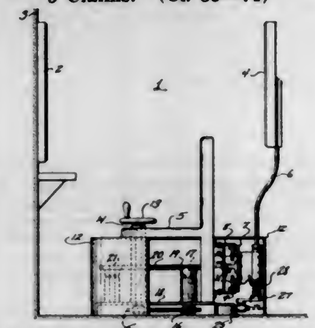
1. In a pose reflecting device, a primary mirror which the poser normally faces, a secondary mirror, means for revolvably mounting the latter for orientation behind the poser, manually operable means for revolving said secondary mirror, and a mechanical connection between said manually operable means and said secondary mirror, said mechanical connection including means for rotating said secondary mirror about a second axis as it is oriented behind the poser, whereby the poser's image reflected therefrom remains visible in the primary mirror, said manually operable means being movable between the planes of said mirrors and below the poser's reflected image in said primary mirror so as not to obstruct such reflected image therein.

2,161,263
VARIABLE IMAGE-OBSERVING DEVICE
Luther G. Simjian, New Haven, Conn., assignor to Reflectone Corporation, New Haven, Conn., a corporation of Delaware
Application August 19, 1936, Serial No. 96,711
8 Claims. (Cl. 88—92)



8. A variable image-observing device for use in conjunction with an observing-mirror and comprising: a seat-structure including a seating-surface and a support for maintaining the same above a floor-surface; a substantially-vertical mirror movable back of the seating-surface of the said seat-structure and on the side thereof opposite the aforesaid observing-mirror; and connecting-means interconnecting the said substantially-vertical mirror with the said seat-structure and constructed and arranged to provide for the movement of the said substantially-vertical mirror around the back of said seat-structure and cause the leading-edge thereof to shift to a position relatively-more remote from the center of the seating-surface of the said seat-structure than is the trailing-edge of the said mirror as the same is moved in either direction from its intermediate position.

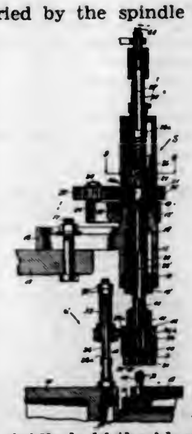
2,161,264
POSE REFLECTING SYSTEM
Luther G. Simjian, New Haven, Conn., assignor to Reflectone Corporation, New Haven, Conn., a corporation of Delaware
Application November 24, 1936, Serial No. 112,447
3 Claims. (Cl. 88—74)



1. A pose reflecting device for use in conjunction with an observing-mirror and comprising: a combined track-way and seat-structure having a seating-surface and a curved track-way extending partway there around and organized as a unit therewith; a carriage movable along the said curved track-way; a movable-mirror carried by the said carriage and movable therewith in a curved path around the seating-surface of the said seat-structure and changing its angular relationship with respect to the said seating-surface of the said seat-structure as the said movable-mirror moves along the said curved track-way with the said carriage; the seating-surface of the said seat-structure being located between the said movable-mirror and the observing-mirror, whereby the said movable-mirror changes its angular disposition with respect to the said seating-surface as it is moved along the said track-way with the said carriage, to enable the image of a rear-portion of a poser thereon to be reflected back to the poser.

2,161,265
THREADING SPINDLE
Eric J. Stahlhammer, Bridgeport, Conn., assignor to The Bodine Corporation, Bridgeport, Conn., a corporation of Connecticut
Application August 25, 1937, Serial No. 160,828
14 Claims. (Cl. 10—107)

1. In a screw-threading machine for threading small headless blanks, means for supporting a blank at one of its ends; a die spindle having a threading die thereon movable into threading relation with the blank; and a fluid-operated plunger carried by the spindle and adapted to



engage and rigidly hold the blank on the support during the threading operation.

2,161,266
WIRE TERMINAL
Donald Matt Weiger, Seattle, Wash., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application June 18, 1938, Serial No. 214,494
5 Claims. (Cl. 173—259)

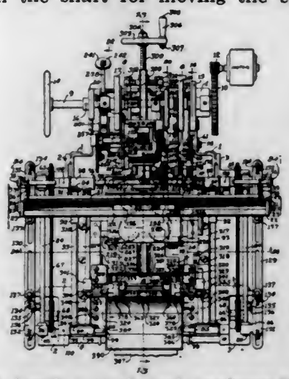


1. A binding post construction embodying a terminal member having a screw threaded seat, a screw member having a slotted head and a threaded shank rotatable in the threaded slot of the terminal member, and a bending member freely rotatable on said shank and having a clamping portion adjacent the threaded seat and having an upstanding projection extending alongside of the head of the screw member beyond the plane of the slot therein and adapted to be engaged by the edge of the blade of a screw driver when the screw driver tip is engaged in the slot of the head of the screw member so that the bending member can be rotated by the screw driver and thereby bend the tip of a wire inserted between the clamping portion of the bending member and the head of the screw member.

2,161,267
PRETZEL MACHINE
William M. Young and Lemon Blair Paules, Harrisburg, Pa.
Application March 24, 1938, Serial No. 197,954
55 Claims. (Cl. 107—8)

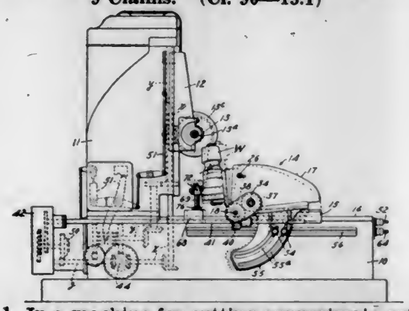
1. In a pretzel making machine having a hopper into which rods of dough are delivered, a movable carriage beneath the hopper, means associated with the hopper and carriage to release a rod of dough from the hopper to the carriage at the commencement of the operation of the machine, a forming device mounted for both turning and reciprocating movement, and located beneath the carriage at the commencement of the operation of the machine, said carriage having an opening above the forming device so that a rod of dough is supported at its ends by the

carriage and intermediate its ends by the forming device, said carriage being movable with respect to the forming device to bend the dough about the forming device to give it a substantially U-shaped conformation, a finishing plate, means adjacent to the finishing plate for grasping the ends of the dough, a cover and retaining element for holding the curved portion of the U shaped rod of dough on the forming device, drive means including a cam shaft, cams on the cam shaft, and means operatively associated with cams on the shaft for moving the carriage to



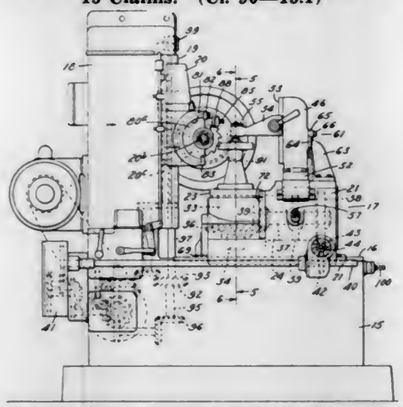
give the dough a U-shaped configuration on the forming device, for raising and lowering the cover and retaining element to retain and release the dough on the forming device, and for turning and reciprocating the forming device to give the dough body a twist between the curved portion and the ends and carrying the looped portion to the finishing plate for disposition on the legs of the dough body to form the shape of a pretzel, and means for releasing the pretzel from the forming device and clipping the ends to release the completed pretzel from the machine.

2,161,268
CONOIDAL BIT CUTTING MACHINE
William F. Zimmermann, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a corporation of New Jersey
Application August 14, 1937, Serial No. 159,049
9 Claims. (Cl. 90—15.1)



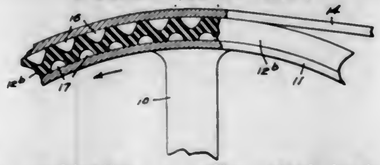
1. In a machine for cutting approximate spiral grooves in conoidal work blanks the combination of a work support and a grooving cutter carriage, a cutter on said carriage, a work arbor on said support adapted to support a conoidal work blank; manually operable means for tilting the axis of said work arbor in the plane of said cutter; additional means for inclining the axis of said arbor in a transverse direction out of the said plane of the cutter; and mechanical means for effecting relative rectilinear movement between said cutter and work blank thereby to cut an approximate spiral groove in said conoidal work blank.

2,161,269
MACHINE FOR SLOTTING CUTTER BODIES
William F. Zimmermann, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a corporation of New Jersey
Application January 19, 1938, Serial No. 185,737
15 Claims. (Cl. 90—15.1)



1. A machine for cutting angularly disposed slots in insertable blade cutter bodies combining a tubular work carriage; a work supporting member rotatably journaled therein; a work blank supporting spindle journaled in said rotatable supporting member; said rotatable member having a laterally extending portion positioned in overlying relation with said spindle for supporting the free end of the body blank in all positions of rotation of the said supporting member; a cutter spindle slide; a slotting cutter axially adjustable in said slide; manual means for adjusting said cutter axially to position the plane thereof coincident with a tangential line of cut to be made in the body blank when the axis of the latter has been tilted out of its normal position; power means for cyclically effecting relative movement between said slotting cutter and the body blank in performing a succession of slotting operations; and means for indexing said work spindle and blank carried thereby to new positions at the end of each slotting cycle.

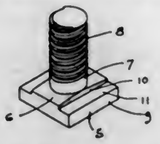
2,161,270
BELT PULLEY
Erich Kraus Anderson, Trenton, N. J.
Application September 21, 1938, Serial No. 230,914
1 Claim. (Cl. 74—230.7)



In combination, a pulley wheel having a smooth surface therein, a resilient ring disposed peripherally of the wheel and provided in its outer surface with a series of depressions projecting to points short of the opposed sides of the ring and with further depressions in its inner surface, and a belt passing over said pulley in contact with the surface of the ring and completely

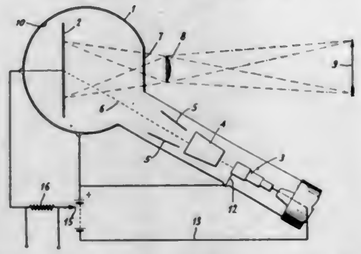
covering the depressions in the outer surface thereof, whereby the ring is compressed under the belt and the air is exhausted from both groups of depressions to set up a vacuum grip between the pulley and the ring on the one hand and the ring and belt on the other hand.

2,161,271
BOLT
Harold A. Anderson, Los Angeles, Calif.
Application January 19, 1937, Serial No. 121,300
2 Claims. (Cl. 90—59)



1. In a bolt, a head, an elongated offset on the undersurface of said head of a length equal to the distance between two opposed edges of said head, a threaded shank protruding from said offset, said offset having a convex undersurface and sides parallel to each other and axis of said shank.

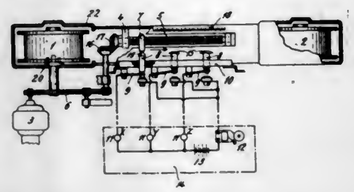
2,161,272
ELECTRON DISCHARGE DEVICE
George Baldwin Banks, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application November 11, 1936, Serial No. 110,230
In Great Britain November 20, 1935
5 Claims. (Cl. 178—7.2)



1. Apparatus for translating values of light and shade into electrical currents comprising an electrically and physically continuous substantially non-photoelectrically sensitized metallic electrode capable of secondary emission when electronically bombarded, means for subjecting said electrode to electronic bombardment, means for also subjecting said electrode to the light and shade values to be translated so as to alter proportionally the secondary emission properties from unilluminated normal values, and means for utilizing the resultant secondary electron emission from said electrode.

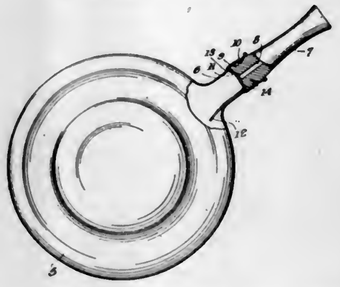
2,161,273
ELECTROMAGNETIC RECORDING ARRANGEMENT
Semi Begun, New York, N. Y., assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application March 24, 1936, Serial No. 70,564
3 Claims. (Cl. 177—311)

1. In an electromagnetic recording system which includes a recording machine, a record bearing body supported on spools, a frame piece in which said spools are mounted, a movable indicator mounted within said frame, a driving means for one of said spools mounted outside said frame piece, a plurality of contact means mounted adjacent said driving means, means for detachably



securing said frame to said driving means for positively driving one of said spools and for moving said indicator into successive operative positions with respect to said contact means in synchronism therewith, and cam means responsive to the movement of said indicator into operative relation with said contact means for actuating one contact means after the other.

2,161,274
TOY BALLOON
Victor Behrend, Neponsit, N. Y.
Application March 30, 1937, Serial No. 133,807
5 Claims. (Cl. 46—90)

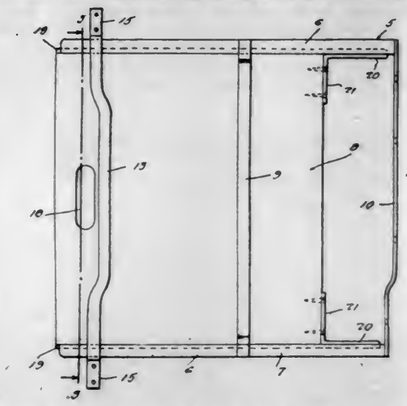


4. A toy balloon or the like, comprising an air or gas inflatable body having a neck portion, a mouthpiece connected with said neck portion and having an air passage, a valve seat on said mouthpiece at the end of said passage, a plug valve associated with said valve seat, and a flexible extension adapted to be manually pulled in a direction away from said stem to unseat said valve to permit deflation of said balloon.

2,161,275
UTILITY SHELF FOR AUTOMOBILES
Earl W. Betts, Tampa, Fla., assignor of one-fourth to Ruth M. Hosmer and one-fourth to Walton B. Clark, both of Bartow, Fla.
Application September 10, 1937, Serial No. 163,316
3 Claims. (Cl. 311—21)

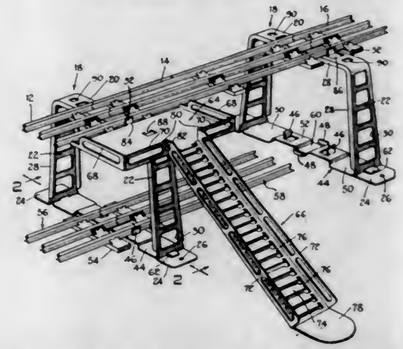
3. In a construction of the class described, a supporting frame including guide tracks and a shelf associated therewith, said shelf comprising a rectangular member, longitudinal metal runners secured to edge portions of said member, and extending the full length thereof, the runners extending beyond the front end of the member,

formed into return bends and having laterally inturned and oppositely disposed extensions fas-



tened to the front edge of the member, as described.

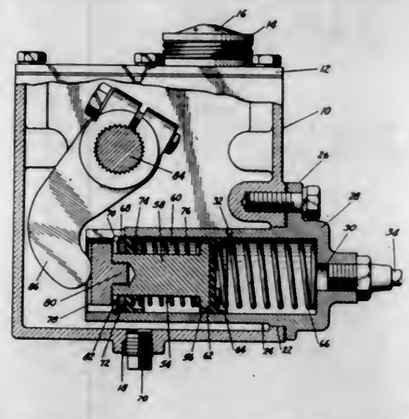
2,161,276
TOY ELEVATED OR TRESTLE RAILROAD
John Bonnett, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application June 10, 1937, Serial No. 147,440
19 Claims. (Cl. 238—10)



1. A trestle or support for elevated toy railroad trackage, said trestle comprising a strip of sheet metal flanged at its edges to give the same a rigid channel-shaped section, said strip being bent to form an inverted U, the top of said trestle being provided with means to receive and locate the rails of a toy track section, the legs of said trestle diverging to increased spacing at the bottom and each leg increasing in width toward the bottom, the lower ends being turned to form flat feet of substantial area, and said feet being perforated to receive attaching means.

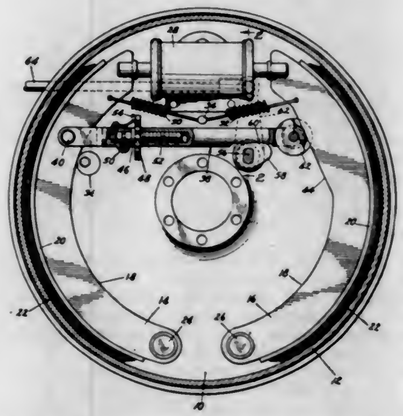
2,161,277
FLUID PRESSURE BRAKING SYSTEM
Herbert C. Bowen, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application January 8, 1937, Serial No. 119,654
9 Claims. (Cl. 60—54.6)

1. A fluid pressure producing device comprising a cylinder of uniform diameter throughout, a piston reciprocable therein, a variable chamber back of the piston, means for introducing fluid into the chamber on the compression stroke of



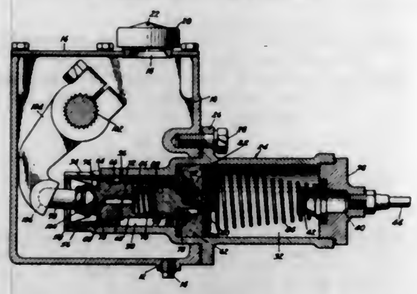
the piston, and means including a floating piston for displacing fluid from the chamber on the retraction stroke of the piston.

2,161,278
BRAKE
Herbert C. Bowen, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application February 16, 1937, Serial No. 126,038
7 Claims. (Cl. 188—106)



4. A brake comprising a fixed support, a rotatable drum associated therewith, a pair of friction elements arranged on the support for cooperation with the drum, an adjustable stop on the support for one of the elements, means urging this element to engage the stop, hydraulic means for actuating the elements, mechanical means for actuating the elements including a rod having one of its ends pivotally connected to one of the elements, a grooved roller on the other end of the rod adapted to travel on the web of the other element, means urging this element to engage the roller, and cam mechanism for swinging the rod on its pivot.

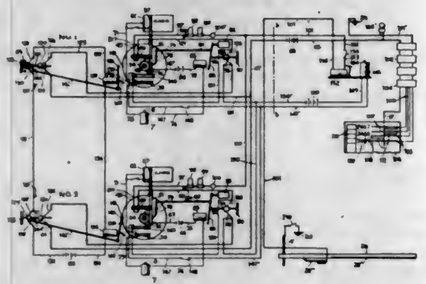
2,161,279
FLUID PRESSURE SYSTEM
Herbert C. Bowen, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application May 14, 1937, Serial No. 142,540
8 Claims. (Cl. 60—54.6)



1. A fluid pressure device comprising means for creating pressure including a high and a low pressure producing means, a fluid outlet communicating with said low pressure producing means, and means operative upon subjecting the fluid to increasing pressure to transfer the pressure from the high to the low pressure producing means, said second mentioned means including a passage connecting said high and low pressure producing means, a valve in said passage, a spring normally holding said valve open, and a part exposed to the fluid pressure in the low pressure producing means for closing said valve

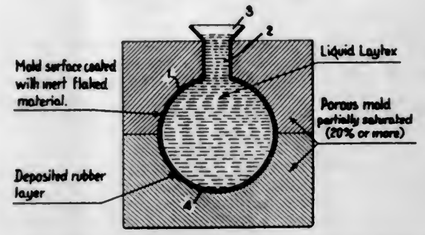
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2,161,280
ACCOUNTING, CHECKING, AND PUNCH-RECORDING SYSTEM
John P. Buckley, Washington, D. C.
Application June 28, 1937, Serial No. 150,857
29 Claims. (Cl. 178—3)



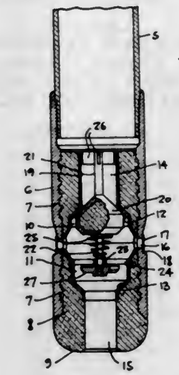
1. In an apparatus of the character described, a central station, a sending station, means at the sending station for making a record of a transaction, including means for transmitting from the sending station to the central station impulses constituting a message relating to the transaction, automatically operable means at the central station responsive to the impulses for determining the advisability of completing the transaction, means for transmitting a signal regarding the transaction from the central station to the sending station controlled by the last mentioned means, and means whereby the recording means is automatically disconnected from the central station after a predetermined series of impulses have been transmitted.

2,161,281
PROCESS FOR PRODUCING MOLDED RUBBER ARTICLES
Mitchell Carter, Trenton, N. J., assignor, by mesne assignments, to Rubber Products, Inc., Chicago, Ill., a corporation of Illinois
Application April 30, 1936, Serial No. 77,146
9 Claims. (Cl. 18—58)



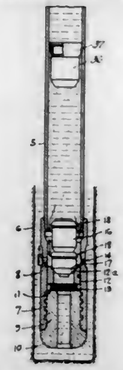
1. Process of producing molded rubber articles from dispersions of rubber in a liquid menstruum which comprises introducing said dispersion into a porous mold which is more than 20% saturated with a liquid having substantially the same properties as the said liquid menstruum, and causing evaporation to take place at the outer surfaces of said mold until a rubber layer of the desired thickness has been formed.

2,161,282
APPARATUS FOR CEMENTING WELLS
Erd V. Crowell, Los Angeles, Calif.
Application June 4, 1937, Serial No. 146,406
14 Claims. (Cl. 166—1)



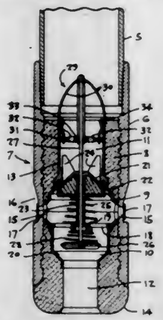
1. A device of the character described comprising a ported tubular member, a valve body secured within said member on each side of the port, a passageway formed longitudinally through said body, valve means comprising a pair of valves arranged in said passageway, spaced apart with respect to each other each adapted to close the passageway in response to pressure thereagainst, a spring above said lower valve to resiliently support the uppermost of said valves in a position closing the passageway to the flow of the fluid upwardly through the valve body, and a plug actuated by pressure fluid to compel said upper valve to open the passageway to pressure thereabove and to urge said lower valve to close the passageway to pressure thereabove.

2,161,283
APPARATUS FOR CEMENTING WELLS
Erd V. Crowell, Glendale, Calif.
Application March 27, 1937, Serial No. 133,413
5 Claims. (Cl. 166—1)



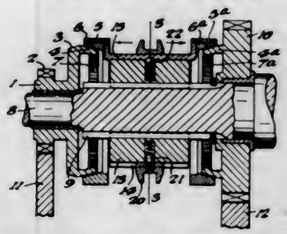
1. A device for cementing the lower end of a string of well casing comprising an outer ported member and an inner sleeve valve tending normally to maintain closure of said ports and forming a valve seat, a plug of lapideous material secured within the lower end of said member tapered inwardly and downwardly to form a guiding end, a passageway formed centrally and longitudinally through said plug, and a barrier plug having a valve at the base thereof actuated by pressure fluid to open said ports and by contact with said valve seat close the bore of said passageway to pressure thereabove.

2,161,284
APPARATUS FOR CEMENTING WELLS
Erd V. Crowell, Glendale, Calif.
Application March 28, 1938, Serial No. 198,445
10 Claims. (Cl. 166—1)



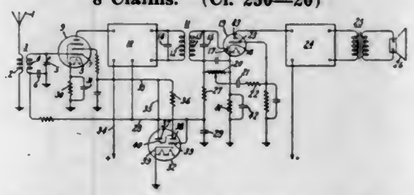
1. In a device of the character described, a ported tubular member, a valve body of lapideous material secured in said member, said valve body being formed with communicating upper and lower valve chambers, said valve body having an upper passageway extending from the upper valve chamber through the upper end of the body and a lower passageway extending from the lower valve chamber through the lower end of the body, a pair of independently operable valves arranged spaced apart in said valve body on opposite sides of the port in said member, means supporting the uppermost valve in a position to close said upper passageway to pressure thereabelow, means releasably supporting the lowermost valve in a position permitting the passage of pressure fluid downwardly through said lower passageway, and means actuated by fluid pressure to release said lower valve to close the bore of said lower passageway to pressure thereabove.

2,161,285
SYNCHRONIZING CLUTCH MECHANISM
Mily de Kremer, London, England
Application June 4, 1938, Serial No. 211,846
In Great Britain June 23, 1937
4 Claims. (Cl. 192—53)



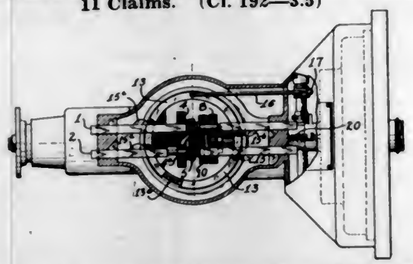
1. Synchromesh change speed gear comprising duplicate pairs of friction and positive clutch elements, a set of yoke members interconnecting a pair of the friction clutch elements for sliding them into and out of engagement with the co-operating pair of friction clutch elements, a rotary driving member carrying one of the latter friction clutch elements and another driving member carrying the other, a driven member, a double positive clutch element splined to the said driven member, clutch teeth on the double positive clutch element and co-operating complementary inclined faces on each of the yoke members and the said teeth.

2,161,286
CONTROL FOR A SIGNALING SYSTEM
Jean L. Delvaux, Paris, France, assignor to General Electric Company, a corporation of New York
Application October 27, 1937, Serial No. 171,294
In France January 21, 1937
8 Claims. (Cl. 250—20)



1. The combination, in a tunable radio receiver, of an electron discharge signal amplifier having a variable gain characteristic, control means responsive to received signal oscillations for varying the gain of said signal amplifier in substantially inverse proportion to the strength of said signal oscillations, means responsive to said control means and including an electron discharge device having a control grid and a cathode for indicating that said receiver is tuned to resonance with the frequency of said signal oscillations, and means including the grid to cathode path of said discharge device for delaying the application of control to said signal amplifier by said control means until said signal oscillations have a predetermined minimum strength.

2,161,287
AUTOMOTIVE DEVICE
George Eaton, Cleveland, Ohio
Application June 1, 1936, Serial No. 82,986
11 Claims. (Cl. 192—3.5)

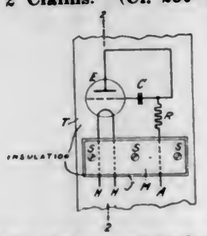


1. In an automotive device, the combination of a transmission having a gear-shift means including reciprocatable rods for changing the gear ratio, a clutch for establishing drive connection between the engine and the transmission, and operative means of connection between the clutch and the gear-shift means for effecting engagement and disengagement of the clutch by manipulation of the gear-shift means, said operative means including a rotatably adjustable ring, means actuated by said gear-shift rods for manipulating said ring in the same direction at all times for disengaging the clutch, and means for transmitting the movement of said ring to the clutch, thereby eliminating the necessity of a clutch pedal.

2,161,288
MANUFACTURE OF TANNING SUBSTANCES
Rudolf Fingado and Hans Hertlein, Leverkusen I. G. Werk, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application September 27, 1937, Serial No. 165,924. In Germany October 2, 1936
8 Claims. (Cl. 149—5)

1. The process of preparing tanning substances which comprises treating a lignin sulfonic acid compound selected from the group consisting of lignin sulfonic acid and the soluble salts thereof with a condensation product of an aromatic hydroxy compound selected from the group consisting of the phenols and the naphthols and a carbohydrate.

2,161,289
BRIDGING CONDENSER FOR HIGH FREQUENCY ARRANGEMENTS
Erich Gossel, Berlin-Britz, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof (Germany), Lorenzweg, a company
Application February 5, 1937, Serial No. 124,265
In Germany February 5, 1936
2 Claims. (Cl. 250—16)

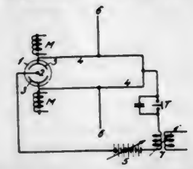


1. In a high frequency device, an oscillatory circuit, an electronic discharge device associated with said circuit, leads for the operating voltages of said circuit and device, a conducting plate spaced from said circuit and cooperating with a section of each of said leads to form a condenser, and attenuating means in one lead between said plate and said circuit.

2,161,290
COATING COMPOSITION
Hans Georg Grimm, Heidelberg, and Friedrich Schamberger, Ludwigshafen - on - the - Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
No Drawing. Application July 28, 1937, Serial No. 156,094. In Germany August 4, 1936
1 Claim. (Cl. 134—1)

Coating compositions of the consistency of oil paints, comprising an aqueous solution of a phosphoric acid having a specific gravity of 1.2 to 1.3 and a pigment-like oxidic compound of an element selected from the group consisting of the first columns in the fourth, sixth and seventh group and the iron group of the periodic system, which sets and hardens with the phosphoric acid, and a reversible colloidal aluminum hydroxide.

2,161,291
RECEIVER FOR ULTRASHORT WAVES
Erich Habann, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, a company
Application January 14, 1938, Serial No. 184,966
In Germany January 20, 1937
2 Claims. (Cl. 250—20)

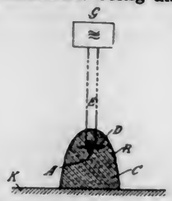


1. An arrangement for receiving ultra-short waves, which comprises an electronic tube having a subdivided cylindrical anode and a filamentary glowing cathode, means to produce a magnetic field suitable for influencing the operation of this tube, the intensity of this field being in accordance with the formula $f(\mathrm{Hz}) = 0.3 \cdot 10^7 H$ (Gauss) resonant with the wave to be received, a Lecher wire system included in the anode circuit of said tube and tuned to the wave to be received, means for adjusting the anode voltage and cathode heating of said tube to be such that this tube by self-excitation is on the point of oscillating in accordance with the received ultra-short wave, and means to take the demodulated current from the said anode circuit.

2,161,292
RADIATING DEVICE
Walter Max Hahnemann, Berlin-Marienfelde, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, a company of Germany
Application December 4, 1935, Serial No. 52,785
In Germany December 6, 1934
7 Claims. (Cl. 250—11)

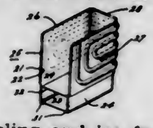
7. A device for transmitting electromagnetic radiation to a body or substance comprising means for radiating oscillatory energy and a dielectric filling the space between said body or

substance and said means, the transmission properties of said dielectric being different from those



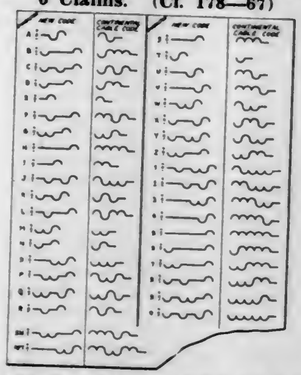
of air and similar to those of the said body or substance.

2,161,293
REFRIGERATING APPARATUS
Delos P. Heath, Grosse Pointe, Mich., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 30, 1938, Serial No. 198,923
4 Claims. (Cl. 62—126)



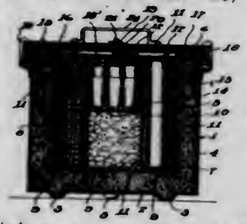
3. An air cooling and ice freezing evaporator of a refrigerating system adapted to be located in a food storage compartment of a refrigerator cabinet comprising, a substantially imperforate metallic sheath exposed to the air to be cooled and formed to provide a plurality of walls embracing a freezing space, said walls forming a partition between the freezing space and the compartment in which the air is to be cooled, means on the sheath forming walls of a continuous voluted duct, and said continuous duct having its circumvolutions co-planar and passing over said walls on juxtaposed sides of the evaporator.

2,161,294
SYSTEM AND METHOD OF CODE TELEGRAPH SIGNALING
Forest L. Henderson, Stamford, Conn., assignor to All America Cables, Incorporated, New York, N. Y., a corporation of New York
Application May 29, 1937, Serial No. 145,434
6 Claims. (Cl. 178—67)



1. A method of telegraph signaling comprising, representing a set of characters by elements of two types, transmitting equal length current impulses of one polarity to represent one type of character element, using interspersed periods of no current to represent the other type of character elements and so relating said impulses that no more than two impulses of the same polarity occur successively.

2,161,295
CONTAINER
Charles A. Hirschberg, Mountain Lakes, N. J.
Application September 5, 1936, Serial No. 99,659
1 Claim. (Cl. 220—16)



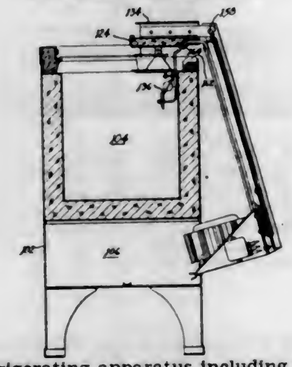
In a container, an insulated body having a closed flush top and a relatively large central well and a plurality of smaller wells about said central well all formed by depressions in the top, said wells extending from the interior of the bottom of the body to the flush top, a removable closed insulated cover for the body fitting flush with the top of the body and having sealing flanges about its edges for sealing engagement with the sides of the body, means for clamping said cover on said body, said cover having a recess in its inner surface establishing communication between said wells, a vent opening in the cover and opening into said recess, a removable refrigerant receiving foraminous container in said central well, and a removable partition in said foraminous container for positioning above refrigerant therein to form a receptacle receiving compartment in the central well above the refrigerant.

2,161,296
OPHTHALMIC MOUNTING
George A. Hood, Newark, N. J., assignor to New Jersey Optical Company, Irvington, N. J., a corporation of New Jersey
Application September 16, 1938, Serial No. 230,166
2 Claims. (Cl. 88—41)



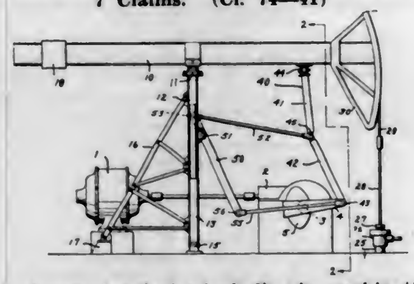
1. A rimless spectacle frame comprising a pair of lenses, strap structures secured to the nasal edge portions of said lenses to support said lenses, offsetting arms affixed and projecting rearwardly from said strap structures, nose-guard structures carried by the free ends of said offsetting arms, supporting bars having their inner ends affixed to said offsetting arms intermediate said strap and nose-guard structures, said supporting bars being disposed to extend behind and substantially along the upper peripheral portions of said lenses in spaced substantially parallel relation thereto, temple hinging end pieces carried at the outer ends of said supporting bars, a flexible spring bridge extending between the inner top edge portions of said lenses, said bridge having bifurcate end portions slidably embracing the lens top edge portions, and anchor portions fixedly interconnecting said bridge end portions with said supporting bars at points intermediate the ends of the latter.

2,161,297
REFRIGERATING APPARATUS
Harry B. Hull, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 29, 1934, Serial No. 746,192
Renewed October 22, 1938
5 Claims. (Cl. 62—116)



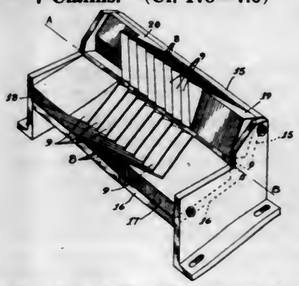
1. Refrigerating apparatus including a cabinet having insulated side and bottom walls providing a compartment having an open top forming a single access opening thereto, a removable wall structure for the open top of said compartment, said wall structure comprising a stationary portion and a slidable portion for closing the compartment open top, a closed refrigerant circulating system associated with said cabinet and including a cooling element disposed within the compartment and secured to said stationary portion of said removable wall structure out of the path of access to said compartment through said single opening normally closed by the slidable portion of said removable wall structure and a refrigerant circulating element pivotally connected to said stationary portion of said removable wall structure and located outside of said compartment, and said pivotal connection permitting movement of one of said elements relative to the other of said elements to remove said closed refrigerating system with said removable wall structure from said cabinet as a unit.

2,161,298
PUMPING UNIT
Paul C. Jackson, Houston, Tex.
Application May 2, 1938, Serial No. 205,445
7 Claims. (Cl. 74—41)



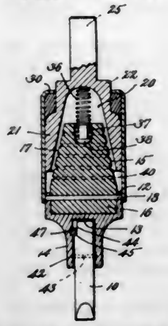
1. A pumping device including in combination, a Samson post, a walking beam pivoted thereon, a pump rod connected to the walking beam to be reciprocated thereby, a crank, a pitman rod connected to the crank and the walking beam, said pitman rod comprising upper and lower members pivoted at their inner ends, a lever pivotally mounted upon the Samson post, an arm having its ends connected to said lever and to the pivot connection of the pitman rod members, and a second arm in spaced relation with said first arm and having its ends connected to the lever and crank respectively.

2,161,299
TELEVISION AND THE LIKE SYSTEM
John Henry Jeffree, Oxshott, England, assignor to Scophony Limited, Campden Hill, London, England, a company of Great Britain
Application January 23, 1937, Serial No. 122,017
In Great Britain January 25, 1936
7 Claims. (Cl. 178—7.6)



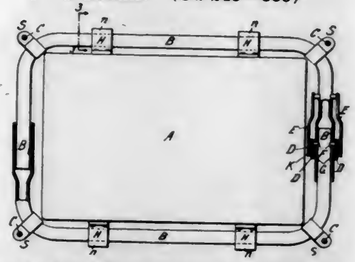
1. An optical transforming device comprising a series of reflecting surfaces arranged in staggered formation to form a staircase, said reflecting surfaces forming the treads of said staircase, a second series of reflecting surfaces arranged in like manner, said staircases being so arranged that the mean planes of said staircases are inclined at an angle to one another, that the risers of said staircases face towards opposite ends of said device, and one of said staircases being positioned to receive light from the other of said staircases.

2,161,300
CHUCK
Welding Johan Kolstad, Hyde Park, Mass.
Application October 8, 1936, Serial No. 104,599
4 Claims. (Cl. 144—32)



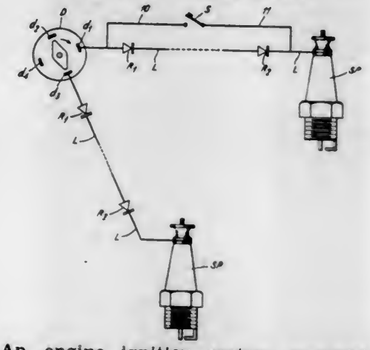
1. A chuck having, in combination, a rotatable driving member, a tool holder, and an interposed clutch composed of a female member affixed to said rotatable driving member, a male member affixed to said tool holder and frictionally engaged with said female member, and a hollow handle for said tool holder provided with an auxiliary frictional clutch member suspended from said female member and rotatable therewith under one condition of use and also independently thereof under another condition of use.

2,161,301
SUSPENSION DEVICE
Hermann König, Berlin-Schmockwitzwerder, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application August 12, 1936, Serial No. 95,507
In Germany August 15, 1935
3 Claims. (Cl. 248—358)



1. In an apparatus sensitive to shocks, an open supporting frame for said apparatus composed of two U-shaped parts having their legs slidably fitted together, a toggle lever device for moving said U-shaped parts with respect to each other to close and open said frame around said apparatus, and an elastic suspension for said frame.

2,161,302
IGNITION SYSTEM
Alfred Aubyn Linsell, London, England, assignor to Radio Corporation of America, a corporation of Delaware
Application September 13, 1935, Serial No. 40,364
In Great Britain September 15, 1934
2 Claims. (Cl. 123—148)

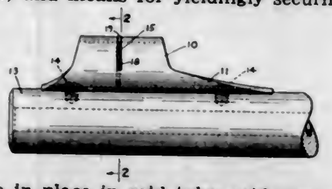


1. An engine ignition system comprising a spark plug, a high tension voltage source and a connection between said spark plug and voltage source encluding a crystal rectifier arranged to substantially prevent currents of high frequency from passing from said spark plug to said voltage source.

2. The combination defined in the preceding claim in which said rectifier is of the copper oxide type.

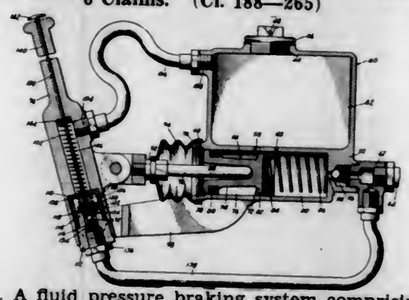
2,161,303
GUN SIGHT
Crawford C. Loomis, Ilion, N. Y., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application December 19, 1936, Serial No. 116,771
1 Claim. (Cl. 33—47)

A front sight for firearms comprising a tubular hood, there being a planar transverse slot in said hood, a reticule comprising a planar resilient ring having an exterior diameter substantially equal to the interior diameter of said tube and adapted for insertion in said tube through said planar slot therein; and means for yieldingly securing said



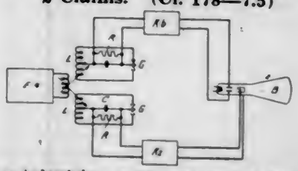
reticule in place in said tube, said means comprising a portion of said ring integral therewith and struck laterally from the plane thereof and adapted to be moved by the resilience of said ring into engagement with the interior periphery of said tube as said reticule moves transversely of said tube into correct position therein.

2,161,304
FLUID PRESSURE BRAKING SYSTEM
Aaron A. Loweke, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application September 27, 1937, Serial No. 165,806
6 Claims. (Cl. 188—265)



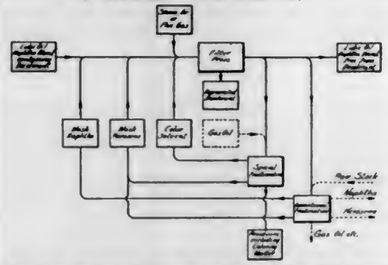
1. A fluid pressure braking system comprising a reservoir, a cylinder supplied therefrom having a discharge port, a check valve controlling the discharge port, a piston reciprocable in the cylinder, an actuator for the piston, a fluid pressure actuated motor connected to the cylinder beyond the check valve, a brake actuated by the motor, and a relief valve in the actuator connected to the reservoir and to the cylinder beyond the check valve.

2,161,305
TELEVISION ARRANGEMENT
Maximilian Messner, Berlin-Westend, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application July 27, 1935, Serial No. 33,425
In Germany August 1, 1934
2 Claims. (Cl. 178—7.5)



2. In a television arrangement a generator of saw tooth oscillations for the line frequency, a generator of saw tooth oscillations for the picture frequency and means for effecting a division of the synchronizing impulses between said generators comprising circuits for controlling these two generators, said circuits each containing a condenser and a resistance connected in parallel and a rectifier in series therewith, and differing from each other as to the time constants.

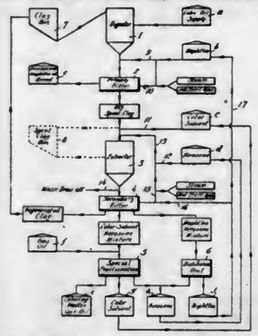
2,161,306
SOLVENT REGENERATION OF SPENT DECOLORIZING ADSORBENT
Albert E. Miller, Westfield, N. J., and George R. Lord, Pelham Manor, N. Y., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application January 4, 1938, Serial No. 183,340
6 Claims. (Cl. 252—2)



1. In the solvent regeneration of solid decolorizing agents contacted with petroleum lubricating oils to decolorize such oils, the improvement which comprises separating the oil from the decolorizing agent in a filter, displacing retained oil from the decolorizing agent by washing it in the filter with naphtha, thereafter extracting contaminating coloring matter from the decolorizing agent in the filter with a color solvent, displacing color solvent retained by the decolorizing agent by washing it in the filter with kerosene and then displacing kerosene retained by the decolorizing agent by washing it in the filter with naphtha, collecting the solvent and kerosene-solvent mixture and recovering the solvent therefrom by distillation, collecting the naphtha-kerosene mixture and recovering the naphtha and kerosene therefrom by distillation, stripping retained naphtha from the extracted decolorizing agent by passing an inert gas therethrough in the filter and removing the regenerated decolorizing agent from the filter.

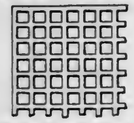
2,161,307
SOLVENT REGENERATION OF DECOLORIZING ADSORBENTS
Albert E. Miller, Westfield, N. J., and William B. Chenault, Wellsville, N. Y., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application October 18, 1938, Serial No. 235,612
8 Claims. (Cl. 252—2)

2. In the solvent regeneration of solid decolorizing agents contacted with petroleum lubricating oils to decolorize such oils, the improvement which comprises diluting the oil while in contact with the decolorizing agent with naphtha, separating the oil-naphtha mixture from the decolorizing agent in a primary filter, displacing the retained oil from the decolorizing agent by washing it with naphtha, removing the decolorizing agent from the primary filter and thereafter extracting in a separate extractor vessel contaminating coloring matter from the decolorizing agent with the color solvent, displacing solvent retained by the decolorizing agent by washing it in a secondary filter with kerosene and then displacing kerosene retained by the decolorizing agent by washing it in the secondary filter with naphtha, collecting the solvent and kerosene-solvent mixture and recovering the solvent therefrom by distillation, collecting



ing the naphtha kerosene mixture and recovering the naphtha and kerosene therefrom by distillation, stripping retained naphtha from the extracted decolorizing agent by passing an inert gas therethrough in the secondary filter and removing the regenerated decolorizing agent from the secondary filter.

2,161,308
MANUFACTURE OF GOODS OF SPONGELIKE OR CELLULAR RUBBER
Edward Arthur Murphy, Wylde Green, and Albert Arthur Round and Thomas Norcross, Erdington, Birmingham, England, assignors to Dunlop Rubber Company, Limited, London, England, a British company
Application December 10, 1937, Serial No. 179,042
In Great Britain December 18, 1936
7 Claims. (Cl. 18—53)

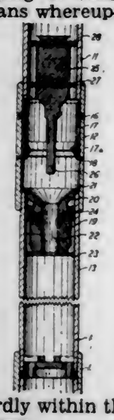


1. An improved process for the production of spongy or cellular rubber goods prepared from frothed aqueous emulsions or dispersions of rubber or similar material of the kinds hereinbefore specified in sheet or moulded form which comprises setting or solidifying the said froth upon an open structure, subjecting the set froth to the pressure of a perforated surface, and vulcanizing the set froth in the thus compressed condition.

2,161,309
MULTIPLE STAGE CEMENTING
Roland E. O'Donnell, Odessa, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application November 27, 1936, Serial No. 112,950
5 Claims. (Cl. 166—1)

1. The combination with a casing of an oil well and a multiple stage cementing unit incorporated therein of a male plug and a female plug, said female plug being mounted in the casing beneath the multiple stage cementing unit and held in position by shearable means, the arrangement being such that the male plug may be pumped down the well behind a slug of cement and con-

tact the female plug to cause the shearing of said shearable means whereupon the female plug



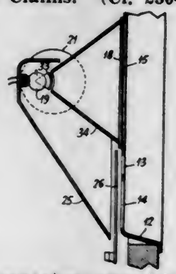
may pass downwardly within the casing to scrape the walls of the same.

2,161,310
INDICATOR APPARATUS

Alden Emerson Osborn, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application April 12, 1932, Serial No. 604,744. Divided and this application May 5, 1937, Serial No. 140,945

2 Claims. (Cl. 250—40)



2. Radio apparatus comprising a front panel, an escutcheon plate fitted into the front panel and having therein a pair of aligned vertical slots and an acuate slot arranged between the two vertical slots, a dial member carrying scale readings viewable through the arcuate slot and carrying also station call-letters which are viewable through the lower vertical slot, an enclosure mounted to the rear of said escutcheon plate, a source of light within said enclosure, a partition within said enclosure which divides the light rays from said source into two separate paths, one path illuminating the scale readings and the station call-letters through their respective slots and the second path illuminating the upper vertical slot, adjustable means interposed in the second light ray path and controlled by the flow of current in a portion of the circuit of the radio apparatus, whereby varying lengths of the second vertical slot is illuminated depending upon the intensity of the current flow which is indicative of the tuning condition of the radio apparatus.

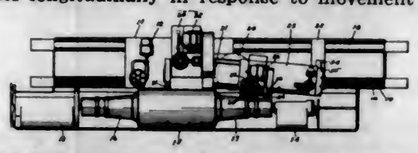
2,161,311
GRINDING MACHINE

Conrad L. Ott, Detroit, Mich., assignor to Landis Tool Company, Waynesboro, Pa.

Application August 12, 1937, Serial No. 158,786

5 Claims. (Cl. 51—49)

1. A grinding machine comprising a work support, a grinding wheel support, a grinding wheel mounted thereon, mechanisms for effecting relative transverse and longitudinal movements of said supports, a second wheel support attached to said first mentioned wheel support and movable longitudinally in response to movement of



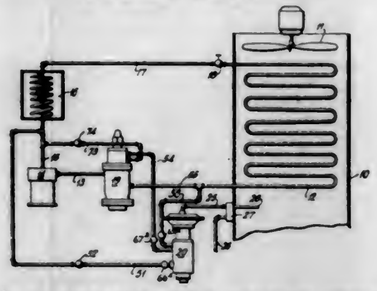
said first mentioned wheel support, a grinding wheel mounted thereon, mechanisms for effecting relative transverse and longitudinal movements of said second grinding wheel and means to effect said movements at an angle to said first mentioned longitudinal and transverse movements.

2,161,312
REFRIGERATING APPARATUS CONTROL

William J. Pritchard, Milford, Conn., assignor to Carrier Corporation, Newark, N. J., a corporation of Delaware

Application January 26, 1937, Serial No. 122,337

10 Claims. (Cl. 62—8)



4. In an apparatus of the character described, an evaporator coil, means for supplying refrigerant to said coil, a compressor for withdrawing refrigerant from said coil, a back pressure regulating valve adapted to control the withdrawal of refrigerant gas from said coil to said compressor, means including a pressure line for controlling the operation of said valve, means including said compressor for creating fluid pressure within said pressure line, and means for regulating the pressure in said pressure line in accordance with changes in the leaving temperature of medium passed in thermal contact with said coil and in accordance with changes in the refrigerant pressure in said coil.

2,161,313
METHOD OF MODULATING HIGH FREQUENCY TRANSMITTERS

Leo Pungs, Brunswick, Germany

Application February 20, 1937, Serial No. 126,805

In Germany February 21, 1936

2 Claims. (Cl. 179—171)

1. In a high frequency transmitter wherein a high frequency oscillation is modulated by a plurality of intermediate carriers and wherein intermediate frequency devices having modulation characteristics are employed for controlling said carriers by a corresponding plurality of signal waves, the method which comprises fluctuating each of said devices about mean working points on its characteristic in accordance with the instantaneous magnitudes of its corresponding signal wave to effect modulation of said carriers, and displacing the working points along said



characteristics in dependence on the average amplitudes of its corresponding signal waves.

2,161,314
SWITCH AND SIGNAL MECHANISM FOR TRACKS AND VEHICLE TOYS

King Randall and Myron Fleishman, Erie, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application September 24, 1936, Serial No. 102,268

18 Claims. (Cl. 104—60)

1. A toy comprising a plurality of road sections which when assembled form a closed road system including a pair of adjacent parallel tracks for small vehicle toys simulating automobiles or the like, said tracks each being trough-like to guide a vehicle toy therein, and switch mechanism on one of said sections adapted to direct a vehicle from the inside track to the outside track or from the outside track to the inside track, the section including said switch mechanism having the center flange or ridge partially cut away and a movable switch tongue substituted in its stead, a first spring tending to move the switch tongue from one extreme position to mid position, a second spring tending to move the switch tongue from the opposite extreme position to mid position, and means readily accessible at the side of the road for momentarily oscillating said switch tongue from its center position toward either side.

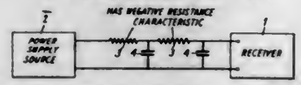
2,161,315
FILTER NETWORK FOR RADIO RECEIVERS

Rudolf Rechnitzer, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application November 7, 1936, Serial No. 109,614

In Germany November 8, 1935

1 Claim. (Cl. 178—44)



A filter network having input terminals for connection to a source of fluctuating current power supply, and output terminals for connection to radio apparatus, ohmic resistances connected in series in said filter and condensers in parallel across the filter at the terminals of said resistances, said resistances having a negative resistance characteristic such that the voltage supplied to the radio apparatus from across the output terminals of the filter network is maintained substantially constant irrespective of variations in current consumption by said radio apparatus.

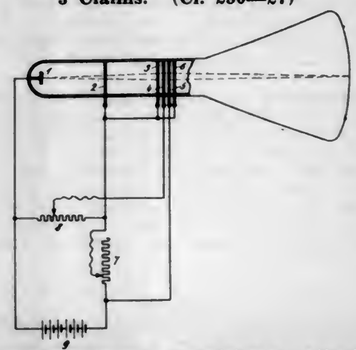
2,161,316
CATHODE RAY TUBE

Walter Rogowski, Aachen-Siegel, and Franz August Becker, Aachen, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application February 12, 1936, Serial No. 63,564

In Germany February 11, 1935

3 Claims. (Cl. 250—27)



1. An arrangement comprising a cathode ray tube having an anode, a fluorescent screen, means for projecting a cathode ray on said screen, means for varying the intensity of said ray in accordance with a control voltage and means for varying the concentration of said ray on said screen in response to and in the same sense as variations in the anode current of said tube.

2,161,317
OXIDATION INHIBITOR AND PROCESS FOR PREPARING SAME

Alexander N. Sachanen and Pharez G. Waldo, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application May 18, 1937, Serial No. 143,328

4 Claims. (Cl. 23—239)

1. An inhibitor capable of retarding deterioration of petroleum oils by oxidation prepared by treating cracked petroleum products boiling between 200° and 400° C. with about 20% by volume of strong sulphuric acid, digesting the reaction mixture with water and separating a solution of "green" sulphonic acids therefrom, saponifying the acids with a strong alkali and substantially dehydrating the soap, fusing the soap with a hydroxide of a strong alkali, neutralizing the reaction mixture, and purifying the water-insoluble product.

2,161,318
MAGNETIC SYSTEM FOR DYNAMIC LOUDSPEAKERS

Alfred Sauerland, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

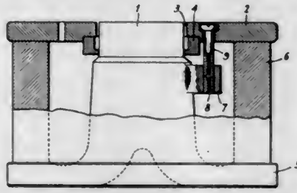
Application October 12, 1936, Serial No. 105,215

In Germany November 4, 1935

1 Claim. (Cl. 179—117)

A magnet system comprising an integrally cast

base plate and center pole piece of soft steel, a pole plate of soft steel, a permanent magnet of high coercive force in the form of a cylindrical ring positioned between the upper surface of the base plate and the lower surface of the pole plate adjacent the outer peripheries of said plates, and means engaging an intermediate portion of the center pole piece and the pole plate for clamping the ring magnet between the above surfaces, said clamping means serving as the sole means



for maintaining the magnet system in assembled position, said clamping means comprising a plurality of internally threaded lugs extending outwardly from an intermediate portion of the center pole piece and integral therewith and a plurality of bolts, the headed portions of which are retained in countersunk portions on the upper surface of the pole plate and the threaded portions of which engage the internally threaded lugs.

2,161,319

WELL-COVERING COATING COMPOSITION

Friedrich Schamberger, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application April 28, 1936, Serial No. 76,769. In Germany April 29, 1935
9 Claims. (Cl. 134—46)

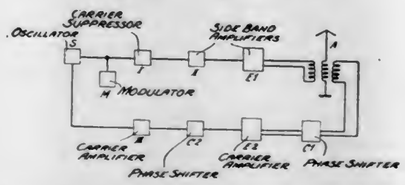
1. A coating composition of the consistency of an oil paint, comprising about equal quantities by weight of an aqueous solution of a phosphoric acid having a specific gravity of about 1.3 as a binder and a pigment-like oxidic compound, which sets and hardens with the phosphoric acid.

2,161,320

MODULATION SYSTEM FOR RADIO TRANSMITTERS

Erich Schulze-Herringen, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof (Germany), Lorenzweg, a company

Application April 8, 1937, Serial No. 135,721
In Germany April 9, 1936
7 Claims. (Cl. 179—171)



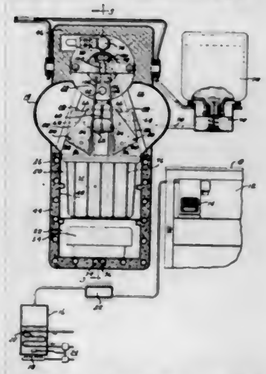
1. In a radio transmitting system having means for obtaining and separating side bands from a carrier, an amplifier for the carrier frequency, a high efficiency amplifier for the side bands, and a single utilization circuit, means for coupling said amplifiers to said utilization circuit, and means for reversing in the output circuit of the carrier amplifier impedance-variations occurring in said utilization circuit.

2,161,321

REFRIGERATING APPARATUS

Harry F. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application March 29, 1935, Serial No. 13,713
9 Claims. (Cl. 62—108.5)



1. Refrigerating apparatus comprising in combination a stationarily mounted cooling unit, means for alternately cooling and heating said unit, an ice mold in thermal contact with said cooling unit, and means movable relative to said cooling unit automatically in response to the application of heat to said unit for ejecting ice from said mold.

2,161,322

C-ALIPHATIC ISOCYCLIC AMINES N-SUBSTITUTED BY OXYALIPHATIC RADICALS

Adolf Steindorff and Gerhard Balle, Frankfort-on-the-Main, Karl Horst, Hofheim in Taunus, and Heinz Schild, Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application March 25, 1937, Serial No. 132,998. In Germany March 28, 1936
7 Claims. (Cl. 260—573)

1. The products containing essentially at least once the group of the following general formula:



wherein

R_1 stands for a member of the group consisting of H, alkyl, cycloalkyl, aryl, aralkyl, oxyalkyl, polyoxylalkyl and polyglycoether radicals.

R_2 stands for a member of the group consisting of oxyalkyl, polyoxylalkyl and polyglycolether radicals, the nitrogen atom being directly linked to an isocyclic hydrocarbon radical of the group consisting of a phenyl, naphthyl, cyclohexyl and tetrahydronaphthyl radical substituted at least once by an aliphatic radical containing a saturated chain with at least 4 carbon atoms,

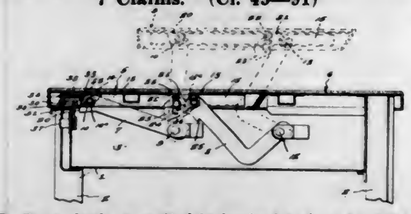
the products having the consistency of a compound belonging to the group consisting of oils, fats and waxes.

2,161,323

LATCH MECHANISM FOR DESK TOPS

Samuel S. Stephenson, New York, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York

Application August 15, 1938, Serial No. 224,922
7 Claims. (Cl. 45—91)



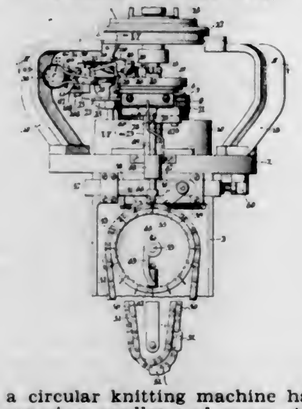
5. In a desk, a suitable body having a receptacle open at its top, a desk top arranged to normally form a cover for the receptacle and movable from closed position upwardly, means for guiding the desk top during the opening and closing movement and maintaining it in substantially horizontal position when open, including links pivoted at opposite ends to the body and to the desk top, the links having a parallelogram action and normally occupying a lying-down position and movable into a standing position when the desk is open, a rod rigidly connecting one of the links at one side of the desk top with a similar link at the opposite side of the desk top, a rock shaft carried by the desk top on the under side thereof and extending parallel to the pivotal axis between the link and the desk top, locking means including said rock shaft and latches on said rock shaft to rock therewith, keepers on the receptacle with which the latches normally coact, keepers on the end of each of the adjacent links where the same are pivoted to the desk top, the latches coacting respectively with the latter keepers when the desk top is open, and an operating member on the under side of the top and extending out of the receptacle, the operating member being connected to the rock shaft to rock the same.

2,161,324

YARN CHANGING MECHANISM FOR CIRCULAR KNITTING MACHINES

Samuel E. Thomas, Knoxville, Tenn., assignor to Holston Manufacturing Company, Knoxville, Tenn., a corporation of Tennessee

Application August 12, 1938, Serial No. 224,423
13 Claims. (Cl. 66—140)



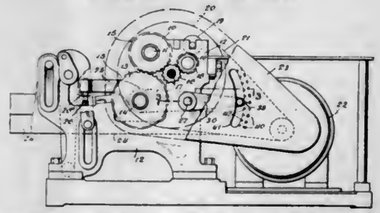
1. In a circular knitting machine having two sets of opposing needles and means to actuate them; yarn changing mechanism comprising a multiplicity of independently-movable yarn feeds, actuating means for selectively interchanging the feeds with predetermination of a definite overlap in the knitting of the threads, means for severing and clamping the yarns as they are withdrawn from action, and means operative to cause the leading and trailing ends respectively of the ingoing and outgoing yarns extending from the clamp means to the interchanged feeds to be knitted into the fabric by one set of the needles.

2,161,325

ROLL ADJUSTING MEANS

George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey

Application November 18, 1937, Serial No. 175,241
9 Claims. (Cl. 91—50)



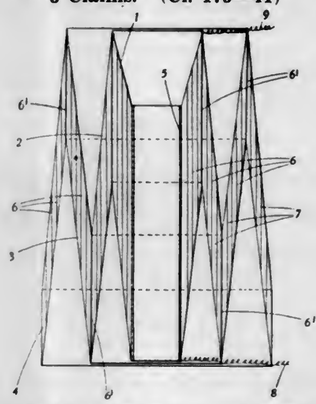
5. The combination of two co-operating rolls, a pair of levers for rotatably supporting one of said rolls, adjustable fulcrums at one end of said levers, bearing heads at the opposite ends of said levers, an adjusting shaft extending through and rotatable in said bearing heads in eccentric relation thereto, means on said shaft adapted to develop eccentrically effective forces on said bearing heads whereby said levers are pivotally actuated on said fulcrums to shift said one roll toward and away from the other roll, and actuating means for rotatively operating said adjusting shaft.

2,161,326

ELECTRICAL CONDENSER FOR HIGH TENSION CIRCUITS

John Krauss Webb, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application October 30, 1936, Serial No. 108,446
In Great Britain November 15, 1935
3 Claims. (Cl. 175—41)



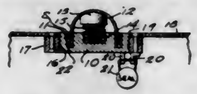
1. An electrical condenser comprising a plu-

rality of parallel connected conical condenser elements concentrically disposed all at substantially the same position axially and successively one within the other, each of said elements comprising a number of coaxial insulation-separated cylindrical conductive layers of different diameters, the conical elements being arranged with the apices of alternate elements at opposite ends of the condenser and with the base of one engaging the apex of another.

2,161,327

DETECTION DEVICE

Peter F. Wendel, Irvington, N. J.
Application March 21, 1938, Serial No. 197,079
2 Claims. (Cl. 116—32)



1. In a detecting device for identifying hit and run drivers, rigid support means comprising a part of an automobile structure, a closure carried by said support means including a fragile portion, a token bearing identifying data positioned within said closure, and means urging said token against the fragile portion of said closure, whereby, if breakage of the closure should occur during collision, the token will be ejected by the force of said urging means.

2,161,328

NONDUSTING CALCIUM CYANAMIDE AND A PROCESS OF PREPARING SAME

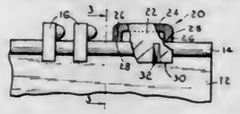
Ernst Winter, Braunsfeld, Cologne, and Herbert Polack, Knapsack, Cologne, Germany, assignors to Aktiengesellschaft für Stickstoffdünger, Knapsack, near Cologne-on-the-Rhine, Germany
No Drawing. Application October 27, 1936, Serial No. 107,906. In Germany August 15, 1931
6 Claims. (Cl. 23—78)

1. The process of preparing calcium cyanamide in granular form which comprises causing nitrogen to act upon finely granulated calcium carbide of a granular size of 0.3 to 4 millimeters which is constantly kept in motion the absorption of nitrogen being started at a low reaction temperature and the temperature being controlled so that the calcium carbide is heated gradually for at least 3 hours to the final temperature sufficient to completely convert the calcium carbide to calcium cyanamide, the rate of nitrogen supply, the temperature of the reaction and the granular size of the calcium carbide being so correlated that no agglomeration of the material takes place.

2,161,329

END STOP MEMBER FOR SEPARABLE FASTENERS

Erich Wittenberg, Berlin-Schoneberg, Germany
Application September 11, 1937, Serial No. 163,331
6 Claims. (Cl. 24—205)

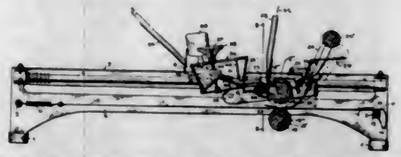


6. An end-stop for the slider of separable fasteners of the type comprising opposed stringers provided with interlocking elements operated by said slider, said end-stop comprising a member having opposed spaced wings and an inner wall defining a channel in which the edge portion of the stringer is received when the end-stop is attached thereto, said spaced wings terminating in edges spaced from said inner wall, and a member projecting from each end of said inner wall toward said edges of the opposed wings, said projecting members extending into said channel and being free from direct connection with said wings and spaced from the inner surface of at least one of said wings whereby the latter can be compressed toward each other for gripping the opposite sides of the stringer, said projecting members serving to limit the movement of said wings toward each other when the stop-member is clamped onto the stringer and inwardly projecting opposed ribs formed on said wings for gripping the stringer therebetween when the end-stop is clamped thereon.

2,161,330

DUPLICATING METHOD AND MEANS

David Wolfson, Far Rockaway, N. Y.
Application November 10, 1936, Serial No. 110,071
10 Claims. (Cl. 101—133)



1. The herein described method or process of duplicating matter inscribed on a master sheet which consists in placing said master sheet on a resilient bed or support of relatively hard surfaced sheet material with its back to said support, moistening a face of a copying sheet and applying the same to the inscribed face of said master copy, and applying pressure progressively to the side of said support opposite the side in contact with the master copy and the side of the copying sheet opposite the side in contact with the master copy on a line substantially normal to the direction of pressure progress whereby the sheets and support are simultaneously and progressively pressed together along a line of pressure until the matter inscribed on the master copy has been impressed on the copying sheet.

2,161,331

MEROCYANINES AND A PROCESS FOR THE PREPARATION THEREOF

Leslie G. S. Brooker and Russel H. Van Dyke, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application July 5, 1935, Serial No. 29,917
9 Claims. (Cl. 260—240)

1. A process for preparing a merocyanine dye comprising condensing, in the presence of a trialkylamine condensing agent having a dissociation constant of the order of that of triethylamine, a cyclammonium alkyl quaternary salt containing a reactive alkylthio group in the alpha position to the ammonium nitrogen atom, with a heterocyclic compound containing a nuclear reactive methylene group adjacent to a nuclear group selected from the group consisting of carbonyl and thiocarbonyl groups.

2,161,332

THIAZOLINOTRICARBOCYANINE DYE

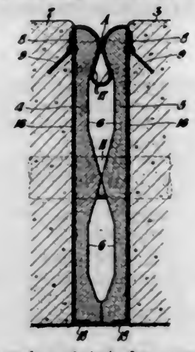
Leslie G. S. Brooker, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
No Drawing. Original application January 16, 1933, Serial No. 651,870. Divided and this application March 3, 1936, Serial No. 66,858
6 Claims. (Cl. 260—240)

2. A 3,3'-dialkylthiazolinotricarbocyanine salt.

2,161,333

EXPANSION JOINT

Myron E. Capouch, Evanston, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application June 23, 1937, Serial No. 149,973
6 Claims. (Cl. 94—18)

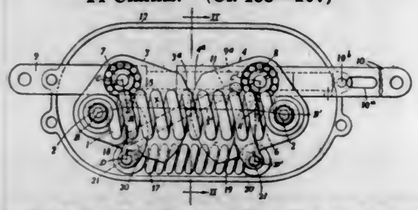


1. An expansion joint for concrete roadways and pavements comprising preformed complementary expansible filler slabs, said filler slabs positioned between adjacent roadway sections so as to provide spaced pockets between said filler slabs, a metallic member surrounding said preformed slabs and extending downwardly between the inner faces of said slabs, said downwardly extending portion forming a seal for the top of said expansion joint and laterally extending flanges secured to said metallic member whereby said joint is securely held by adjacent concrete sections of the roadway.

2,161,334

SPRING-CONTROLLED MECHANISM

George Carwardine, Bath, England, assignor of one-third to Herbert Terry & Sons Limited, Redditch, England
Application August 19, 1936, Serial No. 96,864
In Great Britain August 24, 1935
14 Claims. (Cl. 188—167)

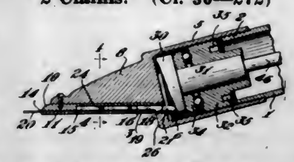


1. A mechanism for assisting the engagement of two-frictionally-engaging parts comprising a main elastic member, a support therefor comprising a pair of levers adapted to be actuated thereby and to have imposed thereon a force which becomes effective when said levers are moved to one side or the other of a dead centre position, the moment arm of said levers increasing as the movements of said levers from dead centre positions increase, a secondary compensating elastic member adapted to oppose and compensate for the effect of said main elastic member, a pair of pivoted arms cooperating with said secondary member, said pair of levers being adapted to remain out of contact with said arms on one side of the dead centre position and to come into contact with said pivoted arms and to strain the second elastic member substantially only when said levers are moved to the other side of their dead centre positions on which the moment produced on that side of the dead centre position is not required.

2,161,335

SCRAPING DEVICE

Thomas E. Cherry, Cambridge, Mass.
Application March 4, 1937, Serial No. 129,046
2 Claims. (Cl. 30—272)

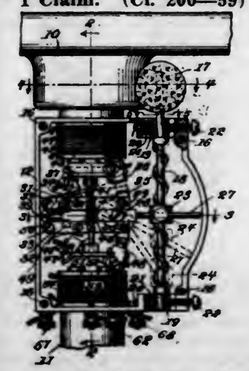


1. A scraper device comprising a tubular body, a nose piece rigidly secured to the front end of said body, said nose piece having a slot extending from its outer edge inwardly toward said body and an opening providing a communication between said slot and the interior of said body, said nose piece also having a discharge opening communicating directly with the inner end of said slot, a scraper blade mounted in said slot for oscillatory movement, said scraper blade having an arm extending through said opening into the interior of said body, and actuating means constructed and arranged to actuate said arm, thereby to effect the oscillation of said scraper blade and the discharge of any particles in said slot through said discharge opening.

2,161,336

TURN SIGNAL

Harry E. Cittell, Eggertsville, N. Y.
Application August 30, 1937, Serial No. 161,653
1 Claim. (Cl. 200—59)



In a turn signal switch for steering wheels, a casing adapted to be attached to a steering column, a worm shaft in the casing, means con-

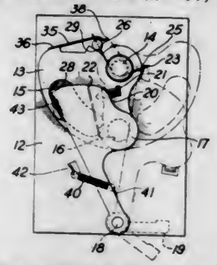
necting the shaft to be rotated by the steering wheel when the steering wheel is turned, a traveling nut on the shaft, a rod swivelly and slidably secured to the nut, said rod terminating in a cam, a pair of parallel switch arms disposed on opposite sides of the cam and movable by the cam according to the direction of travel of the nut on the shaft, spaced switch contacts on one side of each arm, stationary switch contacts cooperating with said spaced switch contacts, a single switch contact on the other side of each arm, a stationary contact cooperating with the last named contact, each switch arm having an armature, and a respective electro-magnet for attracting each armature to hold the spaced switch contacts in circuit closing position and hold the single switch contact in open circuit position.

2,161,337
STIFFENING TRUSS
Joaquin Pedrero Cordova, El Paso, Tex.
Application April 25, 1938, Serial No. 204,202
4 Claims. (Cl. 189—37)



3. In a trussed beam, an upper longitudinal beam member and a spaced lower longitudinal beam member, strut-like elements interposed between the end portions of said longitudinal beam members, strut means located between said longitudinal beam members intermediate said strut-like end elements, and a flexible tension element attached at its opposite ends to one of said longitudinal beam members adjacent said strut-like end elements, said flexible tension element being carried over a support on the opposite longitudinal beam member and having its intermediate portion looped reentrantly over a support on the first mentioned longitudinal beam member in correlation to the intermediate strut means between said longitudinal members.

2,161,338
SHUTTER REBOUND CHECK
Chester W. Crumrine, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 28, 1938, Serial No. 187,460
6 Claims. (Cl. 95—60)

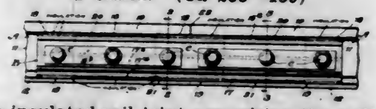


1. In a photographic shutter, the combination with an apertured shutter plate, a shutter pivotally mounted on said plate and adapted to be moved to uncover said aperture to make an exposure, actuating means for said shutter, of a fixed shutter stop mounted on said plate and in the path of said shutter and engageable by the latter to limit the return movement thereof, and shutter retarding means mounted on and movable with said shutter and adapted momentarily to engage said stop to retard the return movement of said shutter and to move out of engagement with said stop upon engagement of said shutter therewith.

2,161,339
CYANINE DYE
Walter Dieterle, Dessau-Ziebigk in Anhalt, and Robert Walter, Wolfen, Kreis Bitterfeld, Germany, and Hermann Dürr, Binghamton, N. Y., assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application December 2, 1933, Serial No. 700,750. In Germany January 13, 1931
11 Claims. (Cl. 260—240)

3. A 1.1'-dialkylbenzseleno-pseudocyanine salt.

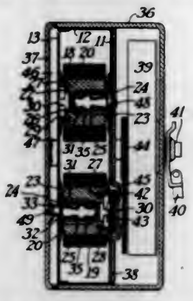
2,161,340
INSULATED RAIL JOINT
Clarkson A. Disbrow, New Rochelle, N. Y., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Original application September 10, 1935, Serial No. 39,975, now Patent No. 2,099,680, dated November 23, 1937. Divided and this application June 19, 1937, Serial No. 149,225
1 Claim. (Cl. 238—159)



An insulated rail joint comprising the rails, the splice bar, a head-piece of insulation overlying the head of the splice bar and extending continuously substantially throughout the length of said bar, a short-length insulating shim interposed between the rails and said head piece of insulation at the middle of the joint and bridging the rail ends, a pair of separate short-length insulating shims interposed between said head-piece of insulation and the rails and located, respectively, at the opposite ends of the joint in spaced relationship to said first mentioned shim, a base piece of insulation underlying the base of the splice bar and extending continuously substantially throughout the length of said bar, a short-length insulating shim interposed between the rails and said base-piece of insulation at the middle of the joint and bridging the rail ends, and a pair of separate short-length insulating shims interposed between said base-piece of insulation and the rails and located, respectively, at the opposite ends of the joint in spaced relationship to said first mentioned shim, the spaced relation between the short-length middle shims and the short-length end shims providing intermediate rail clearance spaces and the full-length head and base pieces of insulation bridging said spaces to prevent short-circuiting at these locations.

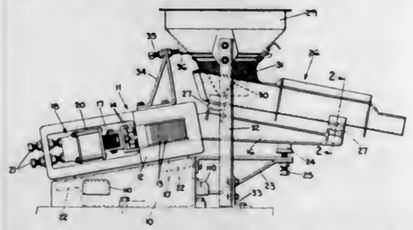
2,161,341
LOCKING DEVICE FOR CORES IN FILM MAGAZINES
Henry N. Fairbanks, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 19, 1938, Serial No. 185,707
8 Claims. (Cl. 242—71)

1. In a device to prevent rotation of a film roll within a film magazine, the combination with a magazine casing, a hollow support member therein and provided with an opening, and a core rotatably mounted on said support member and for receiving a film roll, of a resilient member mounted for axial movement within said support member and having a portion normally extending



through the opening therein to engage said core and prevent rotation of said film roll, and co-operating surfaces on said support member and said resilient member arranged and adapted, upon relative axial movement therebetween, to remove said resilient member from engagement with said core.

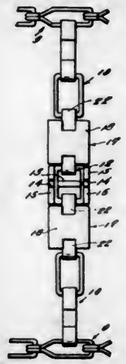
2,161,342
VIBRATORY FEEDER
Earle V. Francis, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado
Application July 28, 1938, Serial No. 221,868
13 Claims. (Cl. 221—120)



1. In a vibratory feeder, the combination with a main frame, of a deck, means for supporting said deck for vibration, electro-magnetic motor means for vibrating said deck and main frame, a hopper positioned to deliver material to said deck by which it is fed when vibrated, means for supporting said hopper independently of both said deck and main frame, and a knocker attached to said main frame to vibrate therewith and positioned to knock said hopper, whereby the vibrations in said main frame may be employed to vibrate said hopper at a frequency which need not be the same as that of the vibrations of said main frame.

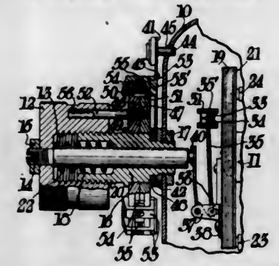
2,161,343
ANTISKID CHAIN UNIT
Howard S. Fritts, Washington, N. J.
Application August 16, 1938, Serial No. 225,219
3 Claims. (Cl. 152—243)

1. In a tire chain construction of the class described, a pair of attaching and supporting parallel side chains, a transverse anti-skid chain therebetween and including a central metallic multiple lug equipped member, and rubber cushioned members on opposite sides thereof, all of said members being pivotally adjoined together



and the outermost members pivotally connected to the side chains.

2,161,344
INDICATING SYSTEM AND METHOD OF CALIBRATING THE SAME
Albert B. Fuller, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
Application February 4, 1936, Serial No. 62,325
8 Claims. (Cl. 200—80)

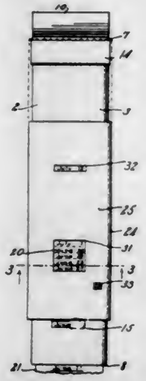


1. In an indicating device adapted for calibration, the combination with a control member which is movable axially and rotatably to vary an operating condition, of an indicating means comprising an index member having an interengaging part, a scale member mounted for rotation only with said control member, a plurality of elements on said scale member and each having a part for inter-engaging said part of said index member in only one relative angular position of each element and said index member, and a connection between the scale member and each of said elements for securing each element to said scale member but adapted to be loosened to permit relative movement between said scale member and any of said elements.

2,161,345
RHYTHMIC CYCLE CALENDAR
Velma A. Gates, Phoenix, Ariz.
Application June 25, 1938, Serial No. 215,801
3 Claims. (Cl. 40—109)

1. A rhythmic cycle calendar comprising, in combination, a case having a front face, longitudinal channel-way therebeneath, and a transverse cylindrical calendar container case at the upper end thereof; a calendar tape having the

days of the calendar year marked thereon progressively within uniform day spaces; a plurality of viewing windows provided in said case face, the outermost being sized and positioned to indicate the date of the commencement of a menstrual cycle on said calendar; the innermost being sized and positioned to represent the com-

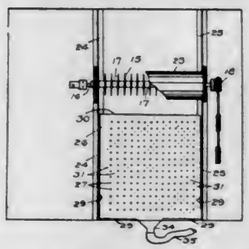


mencement of the next succeeding menstrual cycle; and the third viewing window sized and positioned between said windows to indicate a plurality of days on said calendar in definite relation to the dates indicated in said windows above mentioned and adapted to indicate a period of fertility physiologically related thereto.

2,161,346

MACHINE FOR CUTTING FUR TRIMMINGS FOR OVERSHOES, SLIPPERS, AND THE LIKE

Sam Goldstein, Montreal, Quebec, Canada
Application October 29, 1936, Serial No. 108,133
1 Claim. (Cl. 164—61)



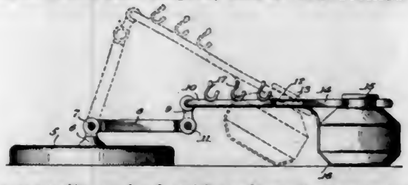
In a machine for cutting fur, a table having tracks attached thereto, a series of cutters, a carriage sliding to and fro under said cutters and formed of a base board, a top board and connecting walls, pins at said top board adapted to support the skin of the fur in immediate engagement with the cutters and perforations in the top board to allow for the suction of the hair from the skin away from the cutters.

2,161,347

CONTAINER HOLDER

Patrick J. Griffin, Sydney, Nova Scotia, Canada
Application March 21, 1938, Serial No. 197,252
1 Claim. (Cl. 120—70)

A device of the character described, comprising, a base, an arm pivoted to said base and adjustable relative thereto, a rack having an end section fashioned with a pair of parallel coacting fingers adapted to embrace the side of a container and a support member subjacent said fingers for embracing the bottom of said container to maintain the latter in adjusted position between said fingers, and a link formed on

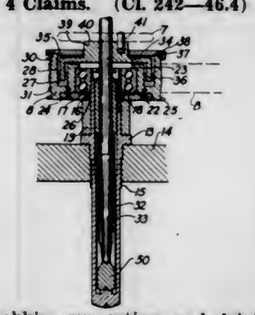


the opposite end of said rack and pivoting the latter to the outer end of said arm whereby said rack is adjustable relative to said arm and base to dispose the container in tilted position whereby the contents of said container are disposed within a tilted section thereof to increase the depth of said contents to permit normal use thereof.

2,161,348

BOBBIN SUPPORTING AND DRIVING DEVICE

Edgar G. Guenther, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 6, 1937, Serial No. 173,214
4 Claims. (Cl. 242—46.4)



1. In a bobbin supporting and driving device, the combination of a stationary support, a whorl rotatably mounted on said support and having a smooth walled recess concentric with its periphery, a quantity of fluid contained in said recess and forming a power transmitting element, means for driving said whorl, bobbin supporting means mounted on said support to rotate relative to said whorl and including a smooth walled circular member fixed thereto and extending into the fluid in said recess whereby a rotation of the whorl will tend to rotate said bobbin supporting means.

2,161,349

TOOTH BRUSH

Gilbert E. Hadden, Chicago, Ill.
Application January 6, 1937, Serial No. 119,328
2 Claims. (Cl. 15—167)



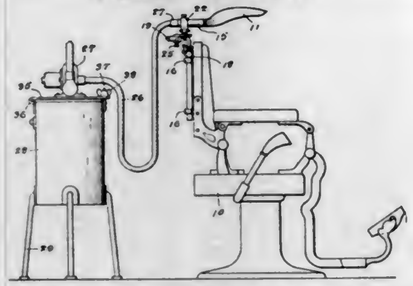
1. An implement for cleaning the tooth of a human being comprising a brush head having a

group of bristles secured thereto, the free end of said bristle group being recessed to form a cone shaped cavity the wall of which is substantially continuous and of substantially the size and shape of one face of a single tooth, the periphery of the base of the cone being constituted by a thin line of bristles to engage the base of the tooth and to extend into the adjacent interproximal spaces.

2,161,350

HAIR COLLECTING APPARATUS

Morris Hartzman, Dubuque, Iowa
Application June 30, 1937, Serial No. 151,293
1 Claim. (Cl. 132—9)

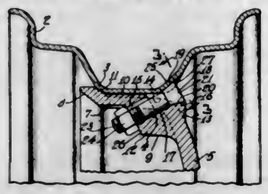


A barber's accessory comprising, a hair trap having short curved diverging arms provided with inner and outer vertical walls and a concave bottom connecting the walls, said arms being adapted to embrace the back of a customer's neck and being arched longitudinally to be supported upon and conform to the shape of the top of the customer's shoulders, the arched contour of the arms promoting gravitation rearwardly of severed hair to a low central point at the rear of the concave bottom, and a suction hose connection at said low central point.

2,161,351

WHEEL STRUCTURE

William H. Hoffmann, Davenport, Iowa, assignor to French & Hecht, Incorporated, a corporation of Iowa
Application October 19, 1937, Serial No. 169,759
3 Claims. (Cl. 301—20)

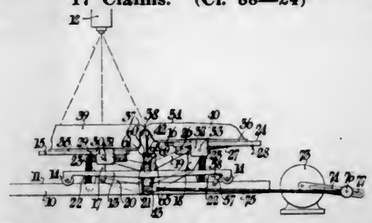


1. In a wheel structure, the combination of a demountable rim, a wheel body, means formed on the wheel body to support the rim centered with respect to the axis of the wheel, a circumferential series of apertures formed in the wheel body, a plurality of rim securing members formed with tapered rim engaging portions and arranged in said apertures at an angle to the axis of the wheel, and fastening means to move the rim securing members axially and radially inward relatively to the wheel body and rim to force the rim axially and radially outward and secure it on its centering support, the rim being formed with means adapted for interfitting engagement with said rim securing members so that the members hold the rim against circumferential movement relatively to the wheel body.

2,161,352

COPY HOLDER FOR A COPYING MACHINE

Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 5, 1937, Serial No. 129,241
17 Claims. (Cl. 88—24)

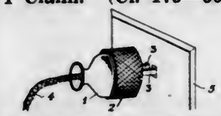


1. In a copyholder for a copying camera having a photographic field, the combination with a base member, a frame member movably mounted upon said base member, a pair of supports, and a plurality of links operatively connected between said frame member and said supports and for imparting opposite movement to said supports so as to support the respective halves of an open book with its top pages in the same plane, the back of said book being between said supports, of a cover member movably mounted upon one of said supports, attaching means for fastening respectively one cover of said book to said cover member and the other cover of said book to the other support, resilient means between said cover member and its support and for normally spreading the halves of said book and placing the back thereof under tension, a back rest means on said frame member between said supports, adjustable means between said back rest means and said frame member and for moving said back rest into position to support any portion of the back of said book, and a shifting means connected to said back rest means of said copy holder and for alternatively moving the respective halves of said book into said photographic field.

2,161,353

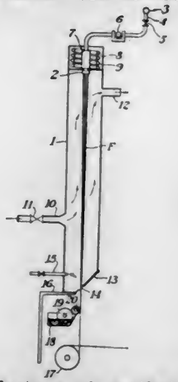
ELECTRIC PLUG

Henry Hummel, New York, N. Y.
Application April 30, 1937, Serial No. 139,864
1 Claim. (Cl. 173—361)



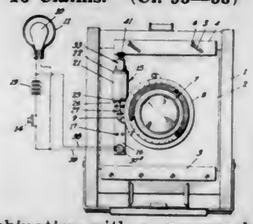
In an electric plug as described, a substantially cup-shaped cable and terminals carrying body having a plurality of teeth of a suitably selected slant formed at one of its ends, a grooved, revolving tubular member for the reception of said body to revolve about the same in either direction, and having a plurality of teeth formed on its inner face of a slant similar to the slant of the body teeth and co-operating therewith during the revolution of said tubular member in either direction to gradually separate said cable and terminals carrying body from an outlet socket, and a split ring in the groove of said tubular member engaging said body to hold said body and tubular member in their relative positions.

2,161,354
METHOD FOR LUBRICATION OF ARTIFICIAL SILK
Howard H. Imray, Jr., Kingsport, Tenn., and Edwin A. Robinson, Elizabeth, N. J., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
Application June 26, 1936, Serial No. 87,442
1 Claim. (Cl. 18—54)



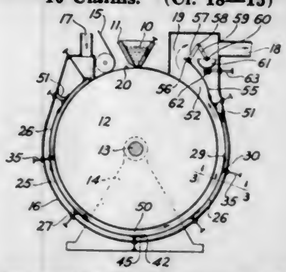
In the manufacture of synthetic threads or yarn by extruding a solution composed of a cellulose organic acid ester dissolved in an appropriate solvent in the form of filaments through a spinnerette mounted at the top and inside of a spinning cabinet, setting the filaments by evaporation of solvent therefrom and passing the filaments in a substantially cured condition to a godet roll positioned below the spinning cabinet, the step of passing the filaments from the spinnerette to the godet roll in a downward vertical direction without contact with thread guides or any other parts of the yarn-making machinery and applying a lubricant to the filaments outside the cabinet while they are moving vertically downward to, but before they come in contact with, the godet roll.

2,161,355
SHUTTER AND FLASH SYNCHRONIZER FOR CAMERAS
Irving Jacobson, Burbank, Calif.
Application April 13, 1937, Serial No. 136,570
16 Claims. (Cl. 95—53)



1. In combination with a camera shutter having a trigger movable to one position to actuate the shutter and having a spring to return said trigger to another position, a device for actuating said shutter including a solenoid plunger, means connecting said plunger to said trigger, a coil in which said plunger is mounted and which, when energized, draws said plunger in a direction to operate said trigger to actuate the shutter, and means for varying the starting point of the movement of said plunger to regulate the lapse of time between the energization of the coil and the actuation of the shutter.

2,161,356
FILM FORMING APPARATUS
Earold C. Jewett, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 27, 1938, Serial No. 221,644
10 Claims. (Cl. 18—15)



1. In an apparatus for forming a film from a dope, the combination with a drum on which the dope is deposited to form a continuous strip of film, of a multi-section casing surrounding a portion of said drum and cooperating therewith to provide a chamber through which a stream of air may be passed to cure the dope deposited on said drum, and means for separately adjusting each of said sections relative to said drum.

2,161,357
HEDGE AND LAWN CLIPPER
Bernard H. Kaplan, Fairfax, Calif.
Application August 25, 1936, Serial No. 97,779
4 Claims. (Cl. 56—237)



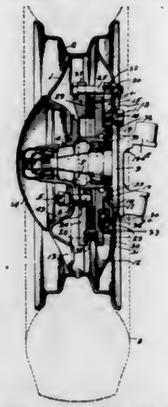
1. In apparatus of the character described, a frame having ground wheels, a pair of parallel, horizontally extending, elongated toothed cutting blades slidably mounted one on the other with their flat sides together for longitudinal reciprocation relatively, a rotatable drive shaft and a pair of cranks on said shaft offset relatively at opposite sides of the axis of rotation of the shaft, a bearing rigidly secured to each blade rotatably receiving one of said cranks whereby the blades will be reciprocated oppositely by the cranks upon rotation of said shaft power means on said frame for rotating said shaft, supporting means mounting said blades on said frame in a position substantially parallel with the ground, the bearings on the blades being disposed at a point to one side of and substantially centrally between the ends of the blades.

2,161,358
THERAPEUTIC AGENTS
John C. Krantz, Jr., Baltimore, Md., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland
No Drawing. Application June 17, 1938, Serial No. 214,344
3 Claims. (Cl. 167—65)

1. A vasodilator comprising an alkyl nitrite of the formula $C_8H_{17}NO_2$.

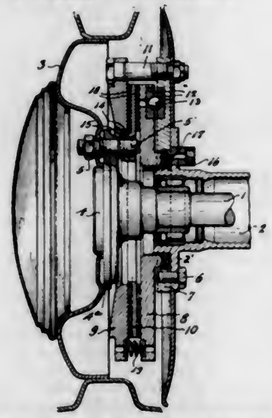
2,161,359
BRAKE CONSTRUCTION
Homer T. Lambert, St. Joseph, Mich.
Application November 10, 1937, Serial No. 173,934
5 Claims. (Cl. 188—72)

1. In a brake mechanism of the class described, a support, a rotary member to be braked carried by said support, an energizer plate surrounding said support, a stationary brake disc disposed in spaced parallel relation to said energizer plate, a free floating pressure plate interposed between the aforesaid plate and disc, a rotary brake ring connected to said rotary member and interposed between said stationary brake disc and said free floating pressure plate, means for moving said free floating pressure plate into frictional contact with said brake ring to effect rotation of said pressure plate by said brake ring, camming means be-



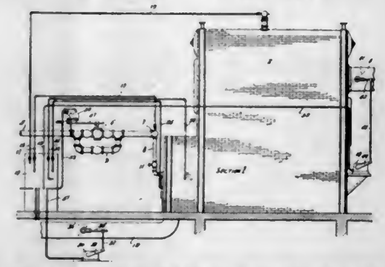
tween said pressure plate and said energizer plate operable upon relative rotation of said pressure plate for moving the pressure plate into further frictional contact with said brake ring, means beyond the periphery of said brake ring connecting the stationary brake disc to said energizer plate, and means disposed beyond the periphery of said brake ring and interposed between the stationary brake disc and the free floating pressure plate for moving the last-mentioned plate away from the said rotary brake ring.

2,161,360
BRAKE MECHANISM
Homer T. Lambert, St. Joseph, Mich.
Application November 10, 1937, Serial No. 173,935
4 Claims. (Cl. 188—72)



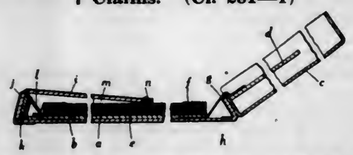
1. In combination, an axle support, a brake unit connected thereto composed of a stationary plate, a pressure plate, a rotatable braking member between said plates, a wheel hub co-acting with said axle support, stud members for connecting a wheel to the hub, said braking member having a series of openings for mounting it upon the stud members, and a non-metallic bushing in each of the mounting openings of said braking member.

2,161,361
COMBUSTION CONTROL
Robert Lewis, Denver, Colo., assignor to The Denver Fire Clay Company, Denver, Colo., a corporation of Delaware
Application July 21, 1936, Serial No. 91,754
2 Claims. (Cl. 236—14)



1. In a furnace having control factors, the combination of a movable beam which controls the rate of fuel being fed to the furnace by actuating a motor which operates from a source of power which is independent of the medium being heated, said movable beam being motivated by two variable means, one of which is actuated directly by the change in the condition of the medium being heated and the other being actuated directly by the change in the pressure of the fuel being fed into the furnace, a second beam to control the supply of air being fed to the furnace by actuating a motor which operates from a source of power which is independent of the medium being heated, said second beam being motivated by two variable means, one of which is actuated directly by the pressure of the fuel being fed to the furnace and the other by the static pressure of air being fed to the furnace, a third movable beam which controls the size of the stack passageway by actuating a motor which operates from a source of power which is independent of the medium being heated, said beam being motivated by variable means, said variable means being actuated by a change in the pressure in the combustion chamber of the furnace, and a selective switch by the operation of which the control exerted by one or more of the said beams may be terminated.

2,161,362
WRITING PAD OR PAPER SHEET HOLDER
Gordon Lindsay, West Dulwich, London, England
Application September 11, 1937, Serial No. 163,480
In Great Britain September 18, 1936
7 Claims. (Cl. 281—1)



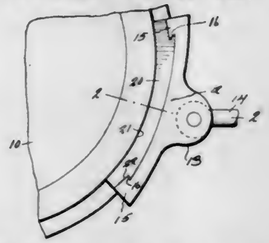
6. A case for writing paper, including a back having an upwardly turned flange at its forward end, a cover hingedly mounted upon said flange

and adapted to be turned over the front of said case, the case being adapted to contain a plurality of superposed sheets of paper and means for feeding a sheet of paper step by step over the flanged forward end of the case, including a hand rest extending transversely entirely across the case and having guide lugs at its forward end extending downward on each side of the superposed sheets of paper, a flexible connection between the back of the case and the hand rest, and means on the forward edge of the hand rest constructed and arranged to frictionally engage the top of a sheet of paper as the hand rest is pushed forward to thus shift the top of the sheet forward, said means riding over the sheet of paper upon a rearward movement of the hand rest.

2,161,363
CAR WHEEL TRUING BRAKE SHOE

Charles A. Malcolm, Meadow Bridge, W. Va., assignor of one-sixth to J. H. Bowles, one-sixth to Modie Walker, and one-sixth to A. C. Clifton Walker, all of Cabincreek, W. Va.

Application January 18, 1938, Serial No. 185,612
2 Claims. (Cl. 188—245)

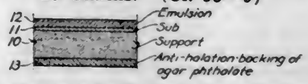


1. A brake shoe, comprising an arcuate body plate having a flange at each end, the inner face of each flange being undercut, the inner face of the brake shoe being arcuate and having a curvature less than the curvature of a wheel to which the brake shoe is to be applied, and a brake block having its outer face at its ends recessed complementary to the flanges of the brake shoe and interlocking therewith, the inner face of the block having a curvature the same as the true curvature of a wheel to which the brake block is to be applied whereby to permit the brake block to be worn through at its middle portion to the inner face of the brake shoe.

2,161,364
ANTIHALATION COATING

Carl J. Malm and John Emerson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 17, 1938, Serial No. 230,504
10 Claims. (Cl. 95—9)



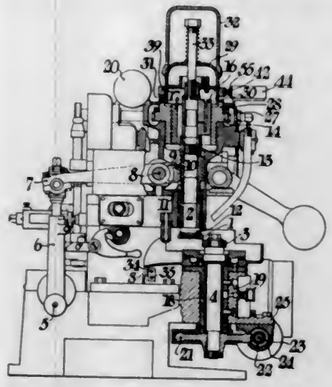
1. A transparent photographic element comprising a superficial coating of a dicarboxylic acid ester of agar.

2,161,365
CONTROL MECHANISM FOR GEAR SHAPING MACHINES

Louis D. Martin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 23, 1937, Serial No. 149,899
9 Claims. (Cl. 90—9)

1. In an apparatus of the type described, the combination with a rotatable cutter spindle, a rotatable work spindle, a driving mechanism connected to said spindles for rotating the same in timed relation and including a prime mover, an index member mounted on one of said spindles for rotation therewith, of an energy supply means connected to said prime mover and including a control member for supervising the operation thereof, a switch means located for operation by

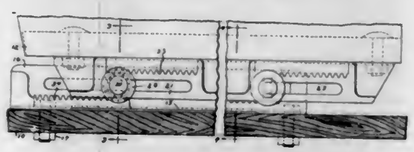


said index member and adapted to be opened when said spindles are in predetermined relative positions, and an energizing circuit including an electro-magnetic member adjacent said control member and adapted when energized to move said control member for operation of said prime mover and also including said switch means which interrupts said energizing circuit when said spindles are in said predetermined relative positions.

2,161,366
ADJUSTABLE SUPPORT

Thomas A. McGregor, Pontiac, Mich., assignor to American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan

Application April 30, 1936, Serial No. 77,272
8 Claims. (Cl. 155—14)

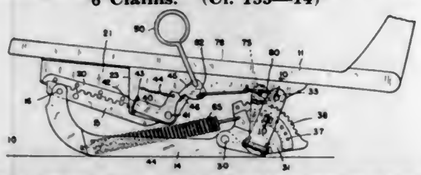


1. In an adjustable support for a seat or the like, relatively movable track and carriage members having parallel overlapping flanges provided with registrable longitudinal slots, the portions of said flanges bounding the slots being relieved upon their abutting sides to provide a gap therebetween, other portions of the flanges being in slidable engagement with each other, said track and carriage elements also having substantially vertically aligned portions above and below said gap, a roller element arranged in said gap and engageable with said aligned portions to provide anti-friction bearing means between the carriage and track, and an axle spindle for said roller extending through said slots and over-engaging the outside surfaces of said flanges to prevent their separation both vertically and laterally.

2,161,367
ADJUSTABLE SUPPORT

Thomas A. McGregor and Albert J. Rhodes, Pontiac, Mich., assignors to The American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan

Application June 18, 1937, Serial No. 148,902
6 Claims. (Cl. 155—14)

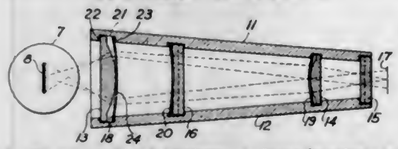


5. Adjustable supporting means comprising in combination with a base and an object adapted to be adjustably supported thereby, a pair of supporting and guiding means carried by the base and secured at spaced points to the supported object, one of said means comprising rockably supported and relatively slidable track and carriage portions connected to the base and to said object to allow guided longitudinal travel of the latter, and the other of said means comprising a link assembly articulated to said base and to said supported object and bodily swingable with such longitudinal travel and also acting during such travel to vary the inclination of said object, said link assembly comprising a pair of sections pivotally secured together and adjustable as to their relative angularity to change the inclination of said supported object independently of its longitudinal position.

2,161,368
LENS MOUNT

John Henry McLeod, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 16, 1937, Serial No. 154,018
10 Claims. (Cl. 88—24)



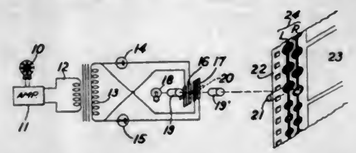
1. In an optical system, a lens having a noncircular periphery, a tubular mount for the lens having an internal cross section substantially fitting said periphery for holding the lens in a definite orientation, the inner walls of said mount being shaped to form oppositely positioned abutments against the margins of the lens and flat spring members pressing the lens against the abutments and having a centrally located aperture for defining the diaphragm opening of the lens.

2,161,369
SOUND RECORDING

John H. McLeod and Richard S. Morse, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 13, 1937, Serial No. 168,777
10 Claims. (Cl. 179—100.3)

1. The method of operating light valves for Class B push-pull sound recording which comprises receiving an electric signal corresponding to the sound to be recorded, half-wave rectifying in the positive direction a portion of the signal, modulating a light valve in accordance with this half-wave rectification, half-wave rectifying in the negative direction another portion

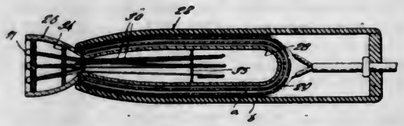


of the signal and modulating another light valve in accordance with this latter half-wave rectification.

2,161,370
SPINAL DETECTOR

Donald B. Mears, St. Albans, Vt.

Application May 21, 1936, Serial No. 81,077
3 Claims. (Cl. 128—2.1)

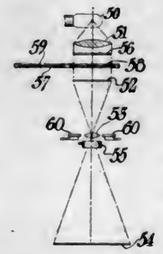


2. In an analyzing apparatus of the character described a fixed thermocouple unit and a movable thermocouple unit operatively connected, said thermocouples each consisting of a case of insulation, an elongated bulb in the casing, said bulb being provided with a flared head portion extending beyond the casing and having a frame mounted therein, contact elements exposed on the said frame, said bulb being adapted to contain the electrical elements of the thermocouple, and a container for the said bulb, said container being of double-wall construction and evacuated.

2,161,371
PHOTOGRAPHIC APPARATUS

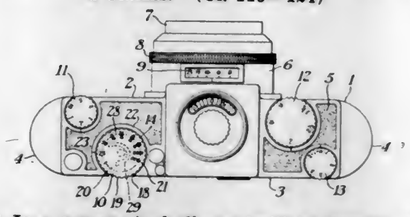
Charles E. K. Mees, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

Application February 24, 1936, Serial No. 65,229
2 Claims. (Cl. 88—24)



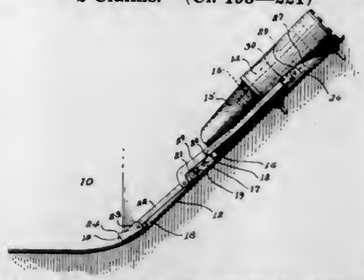
1. In photographic printing apparatus, means for projecting an image of a photographic record onto a sensitized layer, a source of light for illuminating the record, a light diffusing material between said source and said record, the diffusing power of said material being approximately proportional to the inverse square of the wavelength of the transmitted light, and filter means between said source and said layer for selecting the wavelengths of the printing light, whereby the degree of diffusion may be controlled to a predetermined degree.

2,161,372
CAMERA ADJUSTING MECHANISM
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 5, 1937, Serial No. 173,001
4 Claims. (Cl. 116—124)



1. In a camera including a built in shutter, the combination with a plurality of built in control dials, each of said dials comprising a disk, a roughened edge on the disk, an open seat enclosing said disk except for the top of the disk and for a small area of said roughened portion which is exposed for normal operation, whereby accidental operation thereof is minimized.

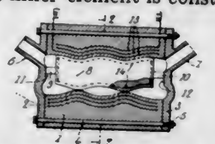
2,161,373
COAL PUSHER FOR LOCOMOTIVE TENDERS
Roy Milburn and Wade Briggs, Muskogee, Okla.
Application August 1, 1938, Serial No. 222,556
2 Claims. (Cl. 198—221)



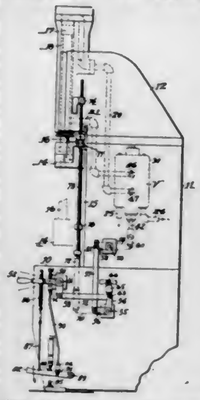
1. A coal pusher of the character described for a locomotive tender having a bin including a slope sheet and floor, a reciprocating piston motor mounted adjacent the slope sheet, a transverse pusher connected therewith and movable on the slope sheet, a forward pusher movable on the floor, links connected between the forward pusher and the first named pusher, upper pushers spaced rearwardly of the first named pusher on the slope sheet adjacent respective sides of the bin, and respective links pivotally connected to the front sides of the upper pushers extended forwardly over the first named pusher and downwardly and pivotally connected to the respective first named links.

2,161,374
MOTOR PUMP OR ELECTRIC GENERATOR
René Joseph Louis Moineau, Paris, France
Application June 24, 1936, Serial No. 86,960
In France May 26, 1936
5 Claims. (Cl. 103—118)

4. An electric machine adapted to be used either as a motor or as an electric generator and comprising a stator and a floating rotor having suitable electric windings, said stator and rotor being so shaped that they constitute respectively the stator and rotor of a rotary engine adapted to work either as a pump or compressor or as a fluid pressure motor in which the stator and rotor comprise, respectively, helical gear elements disposed one within the other, the outer one of said elements having one helical thread more than the inner element and the two elements being so arranged and shaped that every thread of the inner element is constantly in contact with the outer element in any transverse plane, the pitches of the helices of said elements being, in any transverse plane, in the same ratio as the numbers of the threads of said elements, one at least of the members (stator and rotor) being constituted at least in part, by a flexible molded material in which small particles of a magnetic material are embedded.



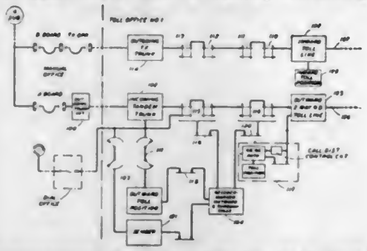
2,161,375
CONTROL MECHANISM FOR HYDRAULIC PRESSES
Kenneth C. Monroe, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a corporation of Maine
Application May 17, 1937, Serial No. 142,952
7 Claims. (Cl. 121—38)



1. In a hydraulic press, in combination, hydraulic actuating mechanism, a reversing valve therefor, automatic means to move said valve alternately in opposite directions to spaced operative positions, and manually controlled means normally overpowering said automatic means and preventing automatic movement of said valve substantially beyond neutral mid-position in one direction only but leaving said automatic means free to move said valve in the opposite direction.

2,161,376
TELEPHONE SYSTEM
Dwight Lyman Moody, Hempstead, N. Y., and Neal Dow Newby, Leonia, and Frank Foster Shipley, Teaneck, N. J., assignors to American Telephone and Telegraph Company, a corporation of New York
Application April 30, 1937, Serial No. 140,022
31 Claims. (Cl. 179—27)

1. In combination, a toll office, incoming and outgoing toll lines, automatic switches for connecting said incoming lines to said outgoing lines, means for sending calling signals in either direction over any of said lines, an operator's position in said office, means responsive to a calling signal sent to said office over a calling incoming line



for connecting said position to said line, and means controlled by the operator for selectively operating said switches to establish a toll connection between the calling incoming line and a desired outgoing line.

2,161,377
TREATMENT OF FIBROUS MATERIAL OF VEGETABLE ORIGIN
Michael P. Mulqueen, Walden, N. Y., assignor to The Hatters' Fur Exchange, Inc., Walden, N. Y., a corporation of New York
No Drawing. Application June 15, 1936, Serial No. 85,305
11 Claims. (Cl. 19—66)

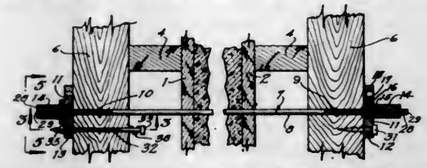
4. The method of making artificial wool which comprises artificially modifying the form of vegetable fibers and thereafter treating the vegetable fibers in a solution of gelatin in a strength of from .6 to 5% of the weight of the stock being treated.

2,161,378
COLOR SEPARATION PROCESS FOR MULTICOLOR PRINTING
Alexander Murray, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application October 8, 1935, Serial No. 44,125
6 Claims. (Cl. 95—2)

1. In the art of producing polytone prints corresponding visually to the colors appearing in an original, the method of obtaining printing plates to correspond to the process inks to be used which comprises creating the camera copy therefor with paints, for all but one of the colors, which strongly reflect infra-red radiations and with paints, for one of the colors, which strongly absorb infra-red radiations, photographically making ordinary color separation records from said copy, photographically making one color separation record with infra-red radiations reflected by said copy, preparing a printing plate from each of said separation records, and printing in superimposed relation from said plates, using the corresponding subtractively colored inks for the color separation plates, and a dark blue to black ink for the infra-red plate.

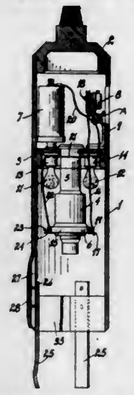
2,161,379
FORM CLAMP
Herman P. Neptune, Los Angeles, Calif.
Application May 29, 1936, Serial No. 82,489
1 Claim. (Cl. 25—131)

In combination with the sheathing and the wales of a form board, a form board clamp including a tie rod threaded at one end to be extended through said form board, a face plate for engaging the wales of said form board, through which plate said tie rod is extended, a nut engaging the threaded end of said tie rod, said face plate being provided with an enlarged bore



through which said tie rod extends and formed with an internal annular flange, the inner end of said nut being reduced and extended through said flange and into said enlarged bore, and the inner end of said nut being externally flanged for engagement with the inner side of said internal flange in said plate.

2,161,380
SUBTERRANEAN CAMERA
Willard J. Opocensky, Long Beach, Calif.
Application March 23, 1937, Serial No. 132,524
10 Claims. (Cl. 95—11)

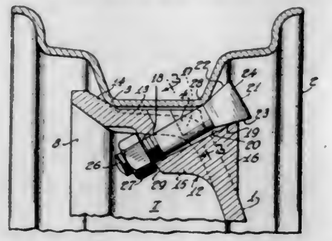


1. A subterranean camera comprising a housing, a camera centrally mounted in said housing, light bulbs mounted in the housing, a battery, said battery being electrically connected to the light bulbs, switch means operatively connected in the battery circuit, an automatic trip means for the switch whereby the switch is closed and the light bulbs are lighted.

2,161,381
WHEEL STRUCTURE
John H. Ploehn, Bettendorf, Iowa, assignor to French & Hecht, Incorporated, a corporation of Iowa
Application October 19, 1937, Serial No. 169,755
6 Claims. (Cl. 301—20)

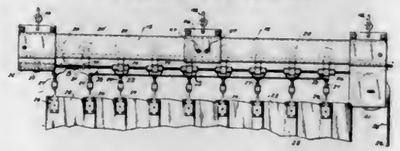
1. In a wheel structure, the combination of a demountable rim, a wheel body, means formed on the wheel body to support the rim centered with respect to the axis of the wheel, a circumferential series of apertures formed in the wheel body, a plurality of rim securing members formed with tapered rim engaging portions and arranged in said apertures at an angle to the axis of the wheel, and fastening means to move the rim se-

curing members axially and radially inward relatively to the wheel body and rim to force the rim



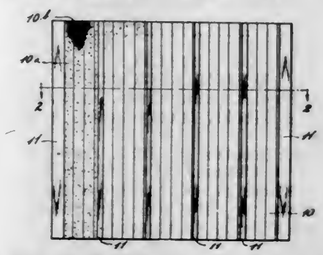
axially and radially outward and secure it on its centering support.

2,161,382
CURTAIN OPERATING MEANS
William C. Raapke, Omaha, Nebr.
Application March 15, 1937, Serial No. 130,892
1 Claim. (Cl. 156—21)



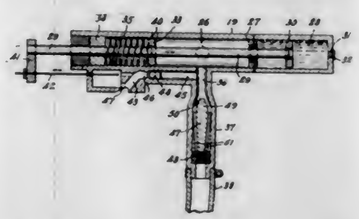
In operating means for a curtain provided in spaced relation with upwardly projecting fastening devices, the combination with a track, the roller-bearing hangers supported by the track and having arms attached to said fastening devices, and the pull-rope for moving the hangers to dispose the curtain in extended position, of a plurality of spacing-strands carried by the arms of the hangers to dispose said arms at lesser distances from each other than the distances apart of said fastening-devices to cause the formation of folds when the curtain is extended.

2,161,383
MICROPOROUS DIAPHRAGM
Willard L. Reinhardt, Shaker Heights, and Leland E. Wells, Cleveland Heights, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Original application November 20, 1933, Serial No. 698,860, now Patent No. 2,052,490, dated August 25, 1936. Divided and this application August 6, 1936, Serial No. 94,612
6 Claims. (Cl. 136—146)



1. A porous diaphragm comprising a porous inner sheet having its interstices filled and its sides covered with thin films of vulcanized microporous rubber.

2,161,384
TIRE PRESSURE REGULATOR AND AUTOMATIC PUMPING MECHANISM
Maurice Rinfret, Sunnyside, Long Island, N. Y.
Application November 27, 1937, Serial No. 176,840
6 Claims. (Cl. 152—418)



1. A device of the character described, in combination with a wheel of an automobile and a tire mounted thereon, comprising a supporting frame fixedly secured to said wheel, an air pump mounted upon said frame, means to actuate said air pump, a pressure regulator, constantly open means connecting said pressure regulator to said air pump, means connecting said pressure regulator to said tire, and a valve in said last named connecting means adapted to automatically open when said wheel is rotated and close when stationary, substantially as described.

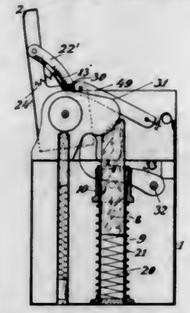
2,161,385
SOLID FUEL FOR LIGHTERS
Ferdinand Ringer, Vienna, Austria
No Drawing. Application October 2, 1937, Serial No. 167,077. In Austria October 7, 1936
4 Claims. (Cl. 44—7)

1. Spark-ignitable solid fuel for pyrophoric lighters consisting essentially of a molded intimate and substantially uniform admixture of a member of the group consisting of the combustible non-fusing aldehydes and non-fusing derivatives thereof in finely-subdivided solid form as the major flame-supporting constituent, and of finely divided combustible fibrous material of low thermal conductivity and low burning velocity and also a combustible organic binding agent as minor constituents, said solid fuel being roughenable at a spark-impinging portion with only partial detachment of finely-subdivided combustible particles and with simultaneous substantial fluffing of the corresponding fibrous material, the resultant fluffy fibers constituting a retaining framework for the said detached combustible particles, whereby the spark-impinging portion comprises a spark-ignitable intermingling of combustible particles and fibers of enlarged surface area.

2,161,386
CIGAR LIGHTER
Ferdinand Ringer, Vienna, Austria
Application November 29, 1937, Serial No. 177,096
In Austria December 1, 1936
7 Claims. (Cl. 67—7.1)

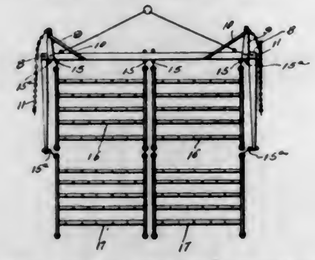
1. A cigar lighter comprising a housing, a cover on said housing, a solid fuel body, a guide member adapted to enclose said fuel body, roughening means acting against the face of said fuel body, spark producing means coming into operation after the action of said roughening means, clamping means adapted to hold firmly said fuel body in said guide at a point below the face to be roughened, a feed spring for said fuel body con-

trolling by said clamping device, means for engaging and disengaging said controlling device,



and connecting means between said controlling means and said cover.

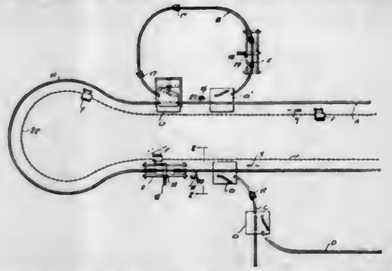
2,161,387
DRAWBAR
Edward Rodemeyer, Hampton, Iowa
Application July 3, 1937, Serial No. 151,931
2 Claims. (Cl. 55—84)



1. A draw bar for harrows comprising an intermediate section and a pair of end sections, means pivotally connecting said end sections at one end thereof to the ends of said intermediate section, whereby said end sections may be swung in either direction and in horizontal planes relative to said intermediate draw bar section, in combination with a plurality of harrows, and inter-engaging means on the harrows and on the sections of the draw bar for coupling the harrows to the draw bar sections and also for coupling the outermost harrows to the intermediate harrows and in alignment with the intermediate harrows when the end draw bar sections are folded rearwardly to a position substantially at right angles to the intermediate draw bar section.

2,161,388
OVERHEAD CARRIER SYSTEM
Morris G. Rosenthal, Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application September 20, 1937, Serial No. 164,684
6 Claims. (Cl. 104—172)

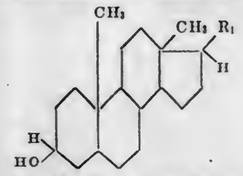
1. In a tramrail system of the character referred to, the combination of an overhead track, a carrier member supported on said track and movable therealong, a flexible driving member paralleling said track, a driving member carried by one of said members and adapted to engage the other of said members, and resilient means for normally maintaining said driving member in operative position and carried by the member which carries the driving member, said driving member being yieldable out of said operative position when



the force required to propel said carrier exceeds a predetermined amount.

2,161,389
POLYNUCLEAR CYCLIC KETONES AND PROCESS OF PREPARING SAME
Leopold Ruzicka, Zurich, Switzerland, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application October 11, 1934, Serial No. 747,989. In Switzerland October 31, 1933
36 Claims. (Cl. 260—397)

1. Process for the production of polynuclear substituted cyclic ketones having a cyclo-pentano-polyhydrophenanthrene nucleus, comprising treating compounds of the formula

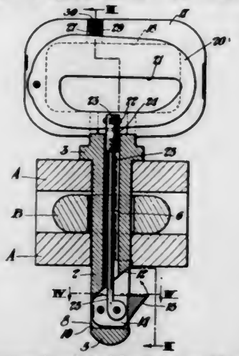


wherein R_1 stands for a member of the group consisting of alkyl and alkyl substituted by oxygen, with an oxidizing agent selected from the group consisting of chromium trioxide and permanganate, the hydroxyl group of said compounds being protected from oxidation by replacement by a substituent which is unaffected by the oxidizing agent and reconvertible to a hydroxyl group after oxidation, separating the non-volatile neutral portions of the resultant oxidation products, and isolating the said cyclic ketones from the said neutral portions.

2,161,390
COUPLING PIN
William Henry Schmalstieg, Wheeling, W. Va.
Application March 2, 1937, Serial No. 128,678
1 Claim. (Cl. 85—3)

A coupling pin comprising a main body portion having a central longitudinal bore, a recess formed on said body portion adjacent one end thereof, an integral radial flange formed on the other end of said body portion for contacting one of the coupling members, a pivoted lug disposed on said body portion within said recess, a handle carried by said body portion adjacent said radial flange, said handle including a pair of plates having complementary apertures and a disk pivotally disposed between said plates, said disk provided with a slot disposed over the central bore, a plug movable within said central bore, a rod connected to said plug and extending

downwardly through said central bore, said rod pivotally connected to said pivoted lug and a pin carried by said plug and extending through said slot at right angles to the central bore so that



upon movement of said disk, said rod is moved vertically to raise and lower said pivoted lug into and out of engagement with one of the members being coupled.

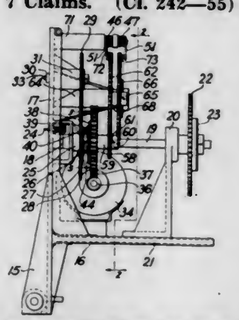
2,161,391

FILM WINDING MECHANISM

Alvin E. Schubert, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 24, 1937, Serial No. 181,641

7 Claims. (Cl. 242—55)



2. In an automatic film winding mechanism, the combination with winding means on which a strip of film is adapted to be wound, a winding shaft, means operatively connecting said winding shaft to said winding means, means for driving said shaft, of auxiliary means including an electric motor for driving said shaft independently of said driving means, an electric switch adapted to be connected into the circuit of said motor, and means including a cam operated by said auxiliary means to open said switch after a predetermined length of film has been wound onto said winding means.

2,161,392

POLYMERIZATION OF OLEFINS

Donald R. Stevens, Swissvale, and William A. Gruse, Wilkinsburg, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application November 3, 1936, Serial No. 109,026

2 Claims. (Cl. 196—10)

1. A process of polymerizing normally gaseous olefins which comprises subjecting such olefins to contact with a mixture of sulfuric and phosphoric acids at a temperature of from 100° to 250° C., said mixture consisting of from 1 to 10 per cent by volume of concentrated sulfuric acid and from 99 to 90 per cent of strong phosphoric acid.

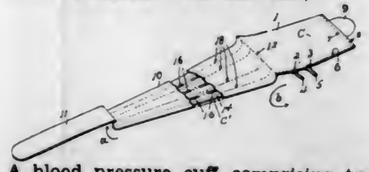
2,161,393

BLOOD PRESSURE CUFF

James P. Tye, Albany, Ga.

Application September 19, 1938, Serial No. 230,698

4 Claims. (Cl. 128—327)



3. A blood pressure cuff comprising two end portions and an intermediate portion, one end portion constituting a pocket and the other end portion constituting a tongue, and means for flexibly reinforcing said intermediate section and continuously tending to roll up the same.

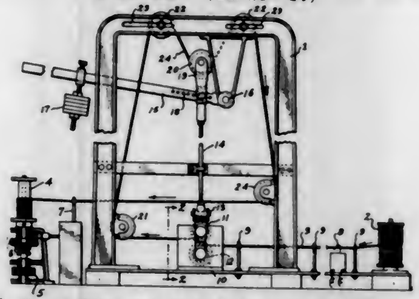
2,161,394

STRETCHING DEVICE

George F. Waters, Fall River, Mass.

Application December 31, 1937, Serial No. 182,839

4 Claims. (Cl. 28—57)



1. A machine for the tensioning of filaments, comprising in combination with a supply reel and a take-up reel, a frame through which the filament passes between said reels, rotary means in said frame over which the filament passes in an extended path through said frame, and a tension applying device about which the filament passes, said device arranged to grip the filament so as to rotate therewith without slippage of the filament, a brake means applied to said device, said brake suspended over the device, a weight applied to said brake, said rotary means arranged to provide support for a loop of the filament which is passed around a rotary element which is mounted on the brake means thereby suspending the same, the tension applying means being located to engage the filament at the beginning of its extended path from the supply reel to the take-up reel.

2,161,395

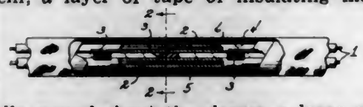
FIRE DETECTING CABLE

Dock R. Wheeler, Lake Charles, La.

Application October 13, 1937, Serial No. 168,805

1 Claim. (Cl. 200—143)

A fire detecting cable comprising conductor wires, a tubular sleeve incasing each of the wires and formed from easily fusible material, equidistantly spaced blocks of insulating material between the sleeves for spacing the same a substantially great distance apart and having concaved recesses in the opposite faces thereof providing seats fitting and receiving the sleeves therein, a layer of tape of insulating material



spirally wound about the sleeves, a layer of tape of flexible metallic material spirally wound about the first layer and each layer being wound with its edges disposed in engagement, the layer of metallic tape having perforations therein for the passage of heat therethrough, and an outer covering of fabric material surrounding the layer of metallic tape.

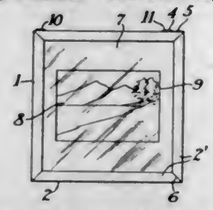
2,161,396

SPRING LATCH FOR LANTERN SLIDE FRAMES

Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 17, 1937, Serial No. 175,079

3 Claims. (Cl. 88—26)



1. A lantern slide comprising in combination a pair of glass plates adapted to retain a picture-bearing element and mask therebetween, and a frame for holding the glass plates together comprising channel shaped members arranged in facing pairs and formed in one piece, at least one of each facing pair of channel members including a plurality of spring fingers formed inwardly from the bottom of the channel members between the sides thereof to engage the edges of the glass plates, one end of the channel member being provided with a snap latch element and the other end of the channel member being provided with a complementary snap latch element whereby the frame may be fastened in place by merely pressing the snap latch elements into engagement by flexing at least some of the spring fingers.

2,161,397

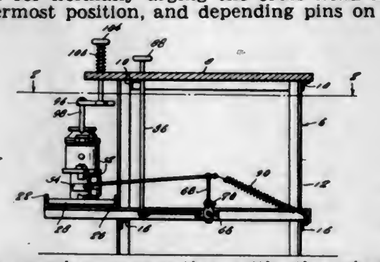
MOLD SUPPORT AND SEPARATING DEVICE

Louie Wohlnc, Weston, W. Va.

Application March 26, 1937, Serial No. 133,243

4 Claims. (Cl. 49—42)

1. A mold operating device for molds for making stemmed glassware including a shell having a body mold disposed therein, a mold head including a pair of sections pivotally mounted adjacent the upper end of the mold having laterally extending arms, said heads normally closing by gravity, a pair of sectional molds communicating with the body mold and disposed below said body mold, comprising a table, said mold being secured below the top and to one side of said table, a cross head having upwardly extending rods extending through apertures in the top of the table, a head on one of said rods, a coiled spring encircling said rod and disposed between the underneath side of said head and the top of said table for normally urging the cross head in an uppermost position, and depending pins on said



cross member cooperating with the pivotally mounted head sections for opening the same upon a depressing of the cross member.

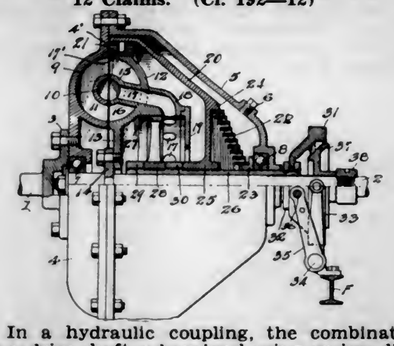
2,161,398

HYDRAULIC COUPLING

Frank B. Yingling, Hamilton, Ohio

Application July 22, 1936, Serial No. 91,973

12 Claims. (Cl. 192—12)



1. In a hydraulic coupling, the combination with a drive shaft, a housing having an impeller-section and rotatable with the shaft, and a driven shaft, of a runner rotatable with the driven shaft, a longitudinally movable transfer-casing having a valve member closing outlet ports from the working chamber formed between the impeller and the runner, and means for moving said transfer casing for evacuation of the working chamber.

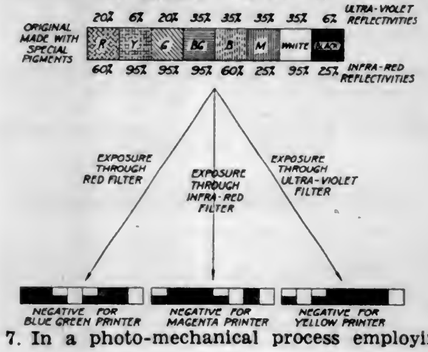
2,161,399

PHOTOMECHANICAL COLOR REPRODUCTION

John A. C. Yule, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 22, 1937, Serial No. 138,349

10 Claims. (Cl. 95—2)



7. In a photo-mechanical process employing

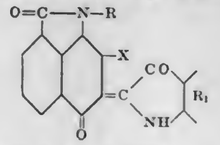
at least three subtractive-color printing inks for reproducing a multi-colored original created from artists' coloring materials, the method of producing three color separation images which comprises creating the original with coloring materials reflecting the three primary colors and having ultra violet reflectivities approximately proportional to their reflectivities to one of the primary colors and infra red reflectivities approximately proportional to those of another of the primary colors and exposing three sensitive photographic layers respectively to the third one of the primary colors, to infra red, and to ultra violet radiation from the original.

2,161,400
VAT DYESTUFFS OF THE 2-NAPHTHALENE-2'-INDOLINDIGO SERIES AND PROCESS OF MAKING SAME

Werner Zerweck and Walter Brunner, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 14, 1937, Serial No. 142,622. In Germany May 19, 1936
4 Claims. (Cl. 260—321)

1. Vat dyestuffs of the 2-naphthalene-2'-indolindigo series of the general formula:



wherein R stands for a member of the group consisting of alkyl- cycloalkyl, phenyl, alkoxy phenyl and diphenyl, X for a member of the group consisting of hydrogen and halogen and R_1 for a member of the group consisting of a dihalogenophenyl, alkyl-alkoxy-halogenophenyl, naphthalene, halogenonaphthalene, which dyestuffs dye vegetables fibers mostly bluish gray to blue to green shades of a good fastness particularly to light.

2,161,401
CHEESE PRODUCT AND PROCESS OF PLASTICIZING

Charles Doering and W. Kedzie Teller, Chicago, Ill., assignors to Henry H. Doering, Chicago, Ill.

No Drawing. Application September 25, 1936, Serial No. 102,487
15 Claims. (Cl. 99—117)

1. An article of manufacture comprising cheese plasticized with a pre-boiled mixture of a fatty oil and soya flour admixed therewith in the presence of water and a small amount of caustic potash serving as an emulsifier therefor.

2,161,402
SHIPPING BOX

Armais Arutunoff, Bartlesville, Okla., assignor to Reda Pump Company, Bartlesville, Okla., a corporation of Delaware

Application December 24, 1937, Serial No. 181,537
4 Claims. (Cl. 206—1)



1. A shipping box for elongated cylindrical articles comprising a pair of semi-cylindrical members, channels secured to and extending longitudinally of said members, lugs secured to upper and lower semi-cylindrical members adjacent their edges at spaced places therealong, said lugs being provided with openings, and bolts positioned in said openings for drawing said members together.

2,161,403
SAFETY RAZOR

John W. Ashworth, New York, N. Y.

Application September 24, 1938, Serial No. 231,467
4 Claims. (Cl. 30—52)

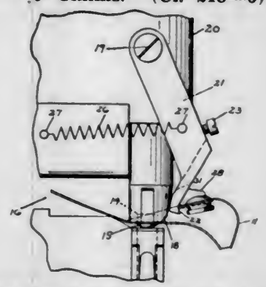


1. A safety razor comprising a guard plate provided along its front longitudinal edge with a guard and near its rear longitudinal edge with at least one boss, said boss and guard serving to support a double edged blade otherwise free from contact with the guard plate, positioning lugs mounted on the guard plate for positioning the blade both transversely and longitudinally with respect to the guard, and a clamping plate hinged to the guard plate at the opposite ends of the guard and adapted to be pivotally moved to overlie the blade and provided with a locking member engaging the guard plate to lock the clamping plate in closed position, said clamping plate being formed along its hinged edge with a flange adapted to bear against the blade between the guard and boss and transversely flex the blade between its points of support when the clamping plate is in closed position.

2,161,404
ATTACHING MECHANISM

Merlin L. Bowen, Detroit, Mich., assignor to Universal Button Fastening & Button Company, Detroit, Mich., a corporation of Michigan

Application September 22, 1937, Serial No. 165,165
9 Claims. (Cl. 218—6)

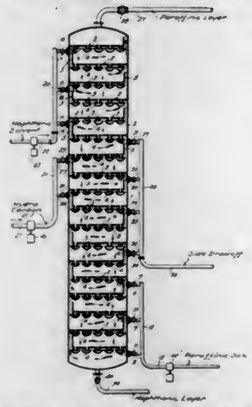


1. Apparatus for attaching fastening devices to fabric comprising in combination attaching mechanism, an oscillatable displacing device, and means for operating said displacing device to displace an overlying piece of fabric to expose an underlying portion of fabric to attaching means of said attaching mechanism.

2,161,405
CONTACTING APPARATUS

John W. Brown, Baltimore, Md., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

Application August 19, 1936, Serial No. 96,802
5 Claims. (Cl. 23—270)

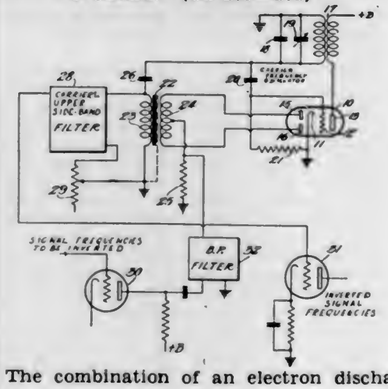


5. In a contacting apparatus, a shell, a plurality of decks extending across said shell at vertically spaced positions, said decks forming a plurality of vertically spaced compartments, each deck provided with a plurality of downwardly extending tubes, the upper ends of said tubes being substantially flush with the respective decks from which the tubes depend, cap members spacedly positioned over the lower ends of said tubes, said cap members forming receptacles in which liquid may collect to form liquid seals for said tubes, conduits extending upwardly from each deck alternately staggered, providing additional communication between adjacent compartments for directing the flow of lighter fluid transversely of the compartment spaces, said conduits terminating short of the plane of the ends of said downwardly extending tubes.

2,161,406
OSCILLATION GENERATING AND MODULATING DEVICE

George M. Charrier, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 27, 1937, Serial No. 139,148
3 Claims. (Cl. 179—171)



2. The combination of an electron discharge device provided with triode and diode electrodes, means including an oscillatory circuit interconnected with said triode electrodes for generating carrier frequency impulses, means including a transformer winding having a mid-point connection for applying said impulses out of phase to said diode electrodes, and means for simultaneously applying modulating impulses having a substantially lower potential than said carrier frequency impulses to the mid-point terminal of said transformer.

2,161,407
STABLE SOLUTIONS OF SULPHANILAMIDE

Walter G. Christiansen, Glen Ridge, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

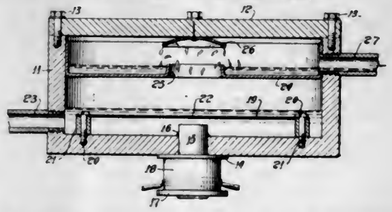
No Drawing. Application August 26, 1937, Serial No. 161,021
6 Claims. (Cl. 167—65)

1. A stable therapeutic preparation essentially comprising sulphanilamide, an oxy-aliphatic alcohol, and a small proportion of a substance of the group consisting of alkali-metal formaldehyde sulphoxylates and alkali-metal formaldehyde bisulphites.

2,161,408
LIQUID CIRCULATING DEVICE

Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application August 8, 1936, Serial No. 94,937
7 Claims. (Cl. 103—53)

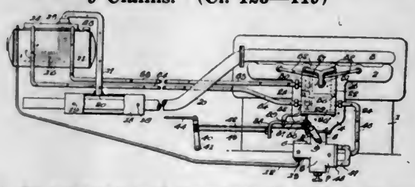


1. A liquid pump adapted for lifting liquid a small distance in a hermetically closed system, said pump having an electromagnet, a movable element adapted to be vibrated by said electromagnet, means for causing liquid to be pumped to contact said movable element and be thrown thereby to a higher level and liquid catching means located above said movable element and adapted to catch the liquid thrown thereby.

2,161,409
GASOLINE SAVER AND VAPOR LOCK REMOVER

Frederick C. Dalton, Portland, Oreg., assignor of one-fourth to W. H. Darby, Salem, Oreg., and one-fourth to E. R. Dalton, Portland, Oreg.

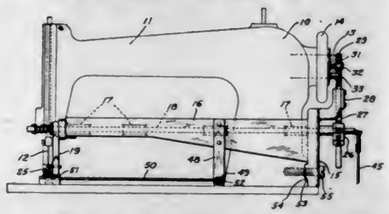
Application January 24, 1938, Serial No. 186,712
9 Claims. (Cl. 123—119)



1. In apparatus of the class described, in com-

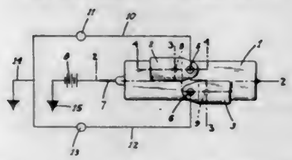
bination with an engine having an intake manifold, a carburetor having a throttle valve, a fuel inlet, an air intake and means delivering air and fuel mixture to said manifold via said throttle valve, a gasoline tank and a pipe line for conveying gasoline from said tank to said fuel inlet, of means for drawing vapors from the gasoline tank and delivering a part of the same directly to said intake manifold by the suction of the engine and another part directly to the air intake of said carburetor, and means controlling the flow of said vapors in harmony with the action of said throttle valve.

2,161,410
RUFFLING ATTACHMENT FOR SEWING MACHINES
Alfred F. De Rose, Bridgeport, Conn.
Application November 17, 1938, Serial No. 240,909
6 Claims. (Cl. 112—134)



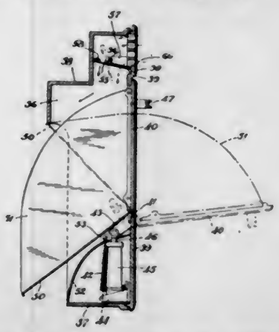
1. A ruffling attachment for sewing machines comprising as an assembled unit and attachable to a sewing machine as such a unit a bracket having a lateral arm to extend horizontally in front of a sewing machine head, shaft bearings on said arm, a shaft mounted in said bearings, a downwardly extending arm secured to the shaft, a ruffling blade carried by said latter arm in front of the machine presser foot, an operating arm secured to the other end of the shaft, an eccentric crank, means for securing the eccentric crank to the main shaft of the machine, a bar having a bearing embracing the eccentric crank and connected to said operating arm for oscillating the first shaft, and means for securing the bracket to the sewing machine head to mount the assembly thereon.

2,161,411
INERTIA SWITCH
Reuben Erich, Avenal, Calif.
Application January 19, 1937, Serial No. 121,297
Renewed November 21, 1938
10 Claims. (Cl. 200—52)



1. In an inertia switch, a relatively long container adapted for mounting longitudinally of a vehicle, two chambers formed on top of the container, the main portion of one chamber being disposed ahead of the other chamber, the container having a bleed opening in communication with each chamber, a body of conducting fluid filling the container and partially filling the chambers, an electrode contacting the liquid, and another electrode extending into said one chamber adjacent its rear end and terminating short of the normal surface of the liquid a predetermined distance.

2,161,412
INCINERATOR
Robert G. Gregg, New York, N. Y., and Albert E. Wirth, Rutherford, N. J., assignors to Construction Products Corporation, New York, N. Y., a corporation of New York
Application August 19, 1937, Serial No. 159,848
2 Claims. (Cl. 110—18)



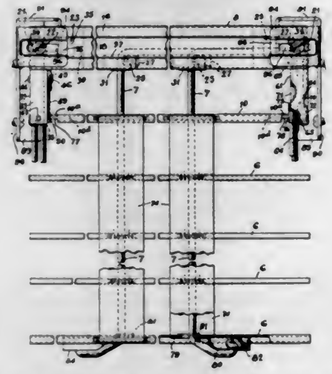
1. An incinerator comprising means forming an incinerating chamber, and flue means leading upwardly from said chamber through which combustible waste material, including garbage and the like, may be charged into and conducted by said flue to said chamber, in combination with a normally closed automatically operable check valve responsive to differences in atmospheric pressure on the inside and outside of said flue disposed at vertically spaced intervals therein, each said check valve being adapted to admit air into said flue when material is being burned in said chamber.

2,161,413
ELECTRIC CABLE SYSTEM
Frank H. Gooding, Lodi, and Guy N. Everest, Hawthorne, N. J., assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Application April 22, 1936, Serial No. 75,690
4 Claims. (Cl. 174—21)



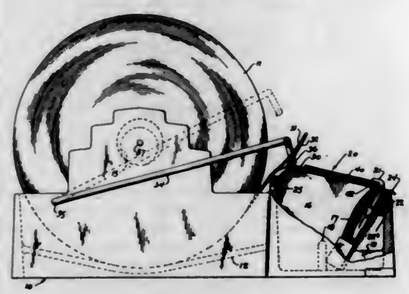
1. A solid type electric cable system comprising in combination adjacent lengths of conductor of the solid stranded type, oil impregnated insulation about said conductors, a connector for joining the adjacent ends of said conductors, said insulation terminating short of the ends of said connector to provide bare conductor spaces at each side of said connector, a wrapping of porous material about said conductors at said bare spaces and overlying the conductor insulation, a joint casing enclosing the joined ends of said conductors, said wrapping being of a material more porous than the insulation of the cable and sufficiently porous so that on expansion of the oil due to loading of the cable the oil of the cable will flow by way of said conductors and through the pores of said wrapping to said casing and in the reverse direction on cooling of the cable.

2,161,414
VENETIAN BLIND HEAD BAR
Samuel Hammer, Brooklyn, N. Y., assignor to United Metal Box Co., Inc., Brooklyn, N. Y., a corporation of New York
Application October 17, 1936, Serial No. 106,096
13 Claims. (Cl. 156—17)



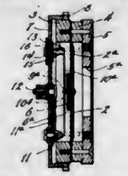
1. A head bar and housing unit for Venetian blinds comprising a channel bar having a horizontal web and vertical front and rear walls, and a housing at each end of said bar having a pair of wings having a sliding fit laterally between said front and rear walls said housings being secured by cooperation between the lower edges of said wings and the horizontal web.

2,161,415
DISPENSER FOR PARCEL HANDLES
Woodford F. Harrison, Berkeley, and Ferd H. Meyer, Oakland, Calif., assignors to The Adhesive Products Co., San Francisco, Calif., a corporation of California
Application July 28, 1937, Serial No. 156,100
6 Claims. (Cl. 164—84.5)



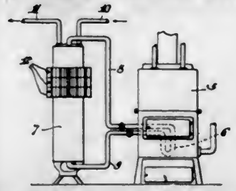
6. In a dispenser for parcel handles formed of a continuous tape with bail members projecting therefrom at intervals and with cuts formed therein between the bail members to demark tear lines for separation of single handles from the tape, a guide member for withdrawal of the tape from a supply roll and having a slot for the passage of the bail members, a tearing edge on said guide member interrupted by said slot, said slot being aligned with said cuts whereby the tape may be completely separated by the interrupted tearing edge, and means for interrupting the withdrawal of the tape with said cuts disposed at the interruption in the tearing edge.

2,161,416
SOUND OPERATED CONTACT DEVICE
Ludwig Heck, Munich, and Richard Schwarz, Berlin-Mariendorf, Germany, assignors to Askania-Werke A. G., a German company
Application January 20, 1936, Serial No. 59,958
In Germany December 12, 1933
5 Claims. (Cl. 200—52)



1. A sound receiving contact device which is non-responsive to disturbing frequencies comprising, in combination, a diaphragm which is tuned to the frequency of the sound intended to receive; a first electrode carried by said diaphragm; a second electrode cooperating with said first electrode and carried by resilient supporting means; said resilient supporting means normally maintaining said second electrode in contact with said first electrode and being tuned to a frequency outside of the range of the disturbing frequencies and below the natural frequency of said diaphragm for periodically breaking the contact between said electrodes upon reception of a sound.

2,161,417
WATER HEATER
Frederick T. Holmes, Waterbury, Conn.
Application November 16, 1936, Serial No. 110,961
3 Claims. (Cl. 122—13)

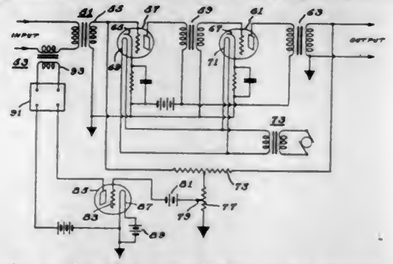


1. The combination with a domestic water heater or the like which would otherwise have a tendency to knock or hammer when the water therein becomes overheated, said water heater comprising a water back, a heater in which the same is positioned, a hot water storage tank, and circulation pipes connecting the water back and storage tank, of means for preventing such knock or hammer which comprises a heat dissipator mounted directly on the shell of the storage tank and having portions extending outwardly therefrom to provide heat dissipating surfaces.

2,161,418
HUM REDUCTION IN AMPLIFIER NETWORKS
Loren F. Jones, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 26, 1936, Serial No. 81,797
7 Claims. (Cl. 179—171)

1. An amplifier having input and output circuits, each of said circuits including a transformer, and included between said circuits a source of undesired disturbance, means for eliminating said undesired disturbance from the output of said amplifier comprising a high impedance circuit connecting the secondary of the transformer

in said input circuit and the secondary of the transformer in said output circuit, a second amplifier having an input and an output circuit, a connection from said high impedance circuit to the input circuit of said second amplifier, and a connection from said second amplifier output



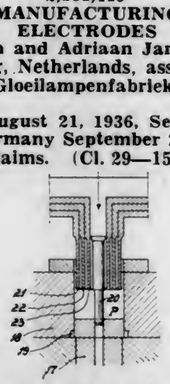
circuit to the first mentioned input circuit, including means for correcting undesirable phase shift of currents flowing in either of said amplifiers so that currents may be applied to said first mentioned amplifier which are of such a phase and amplitude that said disturbances are substantially reduced.

2,161,419

METHOD OF MANUFACTURING CONDENSER ELECTRODES

Jan Kipperman and Adriaan Jan Juriaan Lambeek, Tilburg, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application August 21, 1936, Serial No. 97,200
In Germany September 2, 1935
6 Claims. (Cl. 29—155.5)



1. The method of making a condenser electrode having a smooth outside wall and a plurality of rings of substantially the same height from a single piece of metal by cold squirting process which comprises placing a circular blank of metal on a stationary table and confining said blank within a circular body arranged on said stationary table, forming said blank of metal by applying pressure on a movable die having a central guide pin, and a plurality of annular rings, the arrangement of each ring being such that the real zones of afflux of all the rings from the inside to the outside are reduced more and more to provide equal height of the rings thus formed.

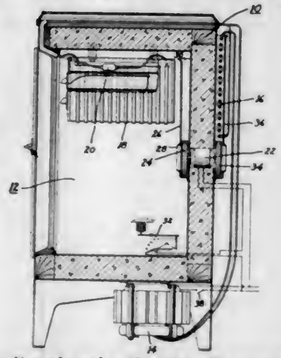
2,161,420

REFRIGERATING APPARATUS

Andrew A. Kucher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application December 29, 1934, Serial No. 759,757
6 Claims. (Cl. 62—116)

1. In combination, an evaporator unit, a refrigerant liquefying unit supplying refrigerant to said evaporator unit, an enclosure to be cooled by said evaporator unit, the capacity of said units being so correlated to the ordinary refrigeration requirements for said enclosure as to satisfy ordinary refrigeration requirements when operating continuously, and means for increasing the flow of air over said evaporator unit, the capacity of said means being so correlated to the capacity



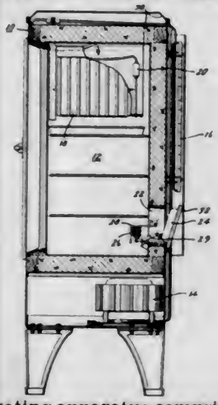
of said units whereby the simultaneous operation of said means and said units produces sufficient capacity to satisfy heavier demands for refrigeration.

2,161,421

REFRIGERATING APPARATUS

Andrew A. Kucher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application December 29, 1934, Serial No. 759,760
12 Claims. (Cl. 62—116)



2. A refrigerating apparatus comprising in combination a cabinet to be cooled, refrigerant liquefying means, and a refrigerant evaporator, and means for regulating cabinet temperatures by an interchange of heat between the evaporating refrigerant and the liquefying refrigerant.

2,161,422

STABLE THERAPEUTIC PRODUCTS FROM INTESTINAL MUCOUS MEMBRANE AND PROCESS OF PREPARING THEM

Carl Ludwig Lautenschläger, Fritz Lindner, and Rudolf Rigler, Frankfort-on-the-Main, and Otto Schaümann, Wiesbaden, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application July 7, 1936, Serial No. 89,468. In Germany August 1, 1935
7 Claims. (Cl. 167—74)

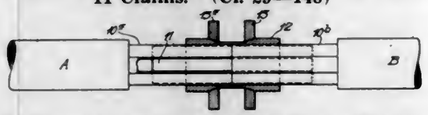
1. The process which comprises treating intestinal mucous membrane with a neutral to weakly alkaline buffer solution, filtering the mixture, adding a water-soluble organic solvent capable of precipitating the desired preparations to the filtrate and isolating the precipitate, every step of the process being carried out at a temperature not exceeding 45° C.

2,161,423

JOINT FOR HOLLOW CABLES AND ELEMENTS THEREOF AND METHOD OF MAKING SAME

Edmond S. McConnell, Ossining, N. Y., assignor to Anaconda Wire & Cable Company, New York, N. Y., a corporation of Delaware

Application October 30, 1936, Serial No. 108,435
11 Claims. (Cl. 29—148)



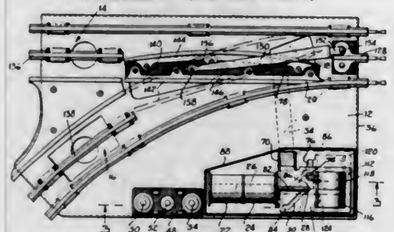
3. In the joining of cables including hollow conductors, the method which comprises inserting solid fillers in the ends of each of a plurality of hollow conductors and then constricting a sleeve about the abutting portions of the cable containing such fillers.

2,161,424

REMOTELY CONTROLLED SWITCH FOR TOY RAILROADS

Edward E. McKeige and Anthony N. Smith, Girard, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application July 31, 1936, Serial No. 93,540
9 Claims. (Cl. 246—220)



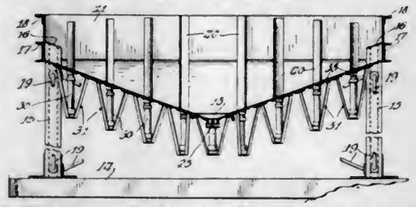
1. A remotely controllable track switch for toy railroads, comprising a base having a top plate carrying main and branch tracks, movable switch points for guiding a train along either the main or branch track, and remotely controllable means for moving said switch points, said means including a double solenoid system, a core movable from one extreme position to another by energization of one or the other of the solenoids, a vertical operating finger on said core, a slot in said top plate extending longitudinally of the core, one end of said operating finger being slidably received in said slot, a shift plate movable transversely of said solenoids and connected at one end to the switch points for shifting the same to one position or the other, a slot in said top plate extending transversely of the core beneath the other end of the shift plate, a pin on said shift plate projecting into said slot, said shift plate having a cam slot therein receiving the aforesaid operating finger, said cam slot extending at an angle in its intermediate portion and extending in the direction of the solenoid axes at its ends, whereby movement of the solenoid core longitudinally of the switch causes movement of the shift plate transversely of the switch and locks the shift plate in position until the solenoid system is again energized, thereby locking the switch points in position against accidental opening.

2,161,425

CONCENTRATION OF ORES

Charles T. Morrison and Harry T. Eastman, Chicago, Ill.

Application July 27, 1935, Serial No. 33,484
7 Claims. (Cl. 209—477)



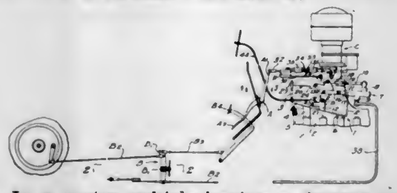
2. The method of concentrating dry ore which comprises maintaining a body of dry ore particles in the form of an inverted cone, subjecting said body to high speed vibrations in the vertical direction, said vibrations being of such intensity and rapidity that the metalliferous particles are caused to descend through the body towards the lower apex of the conical body, and preventing currents of air through the body in the upward direction.

2,161,426

ROBOT BRAKE CONTROL

Edward Neuschastle, Los Angeles, Calif., assignor of one-third to Henry Mach Smith and one-tenth to Marcus C. Clark, both of Los Angeles, Calif.

Application June 7, 1937, Serial No. 146,817
8 Claims. (Cl. 192—3)



1. In a motor vehicle having a driver's compartment, brakes for the wheels thereof, a fuel regulator to control the power delivered by the motor and a control element in the driver's compartment, a valve including a booster in connection with the brakes to apply and release them, lost motion means connected to the fuel regulator to cause delayed operation thereof, shifting means including rocking and catch elements connected with the valve, and coupling means connecting the lost motion means and the shifting means with the control element in the driver's compartment so that the power delivered by the motor and the actuation of the brakes can be operated in alternation with an intervening time lag of short duration when the said elements are in motion.

2,161,427

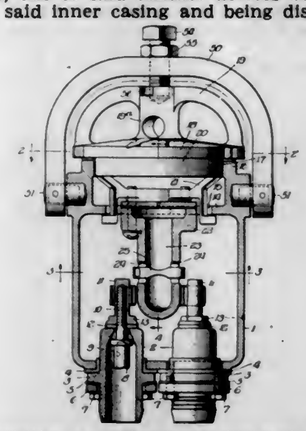
OIL FUSE CUT-OUT

Andrew E. Papp, Chicago, Ill., assignor to G & W Electric Specialty Co., Chicago, Ill., a corporation of Illinois

Application May 15, 1935, Serial No. 21,554
37 Claims. (Cl. 200—120)

1. An oil switch comprising an outer casing, an inner casing adapted to be inserted into and withdrawn from the outer casing and carrying

a fuse under spring tension, and contact devices on the inner and outer casings for making connection to include the fuse in circuit when the inner casing is inserted and given a partial rotation, one of said contact devices being carried by said inner casing and being disposed in



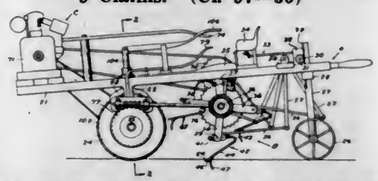
spaced relation to said outer casing and the other of said contact devices extending through the end wall opposite the open end of said outer casing and into the same, said contact devices comprising contact posts and open-jawed spring clips to clasp and make contact with said posts.

2,161,428

AGRICULTURAL DIGGING MACHINE

Caesar Pezzolo, San Francisco, Calif.

Application October 8, 1936, Serial No. 104,568
9 Claims. (Cl. 97—36)



1. In an agricultural digging machine having a plurality of cultivating blades, and means to move said blades into and out of the ground; a follower element on the blade trailing the blade in the same direction as the direction of the blade movements so as to sweep material from the surface of said grounds into the cut in the ground created by said blades.

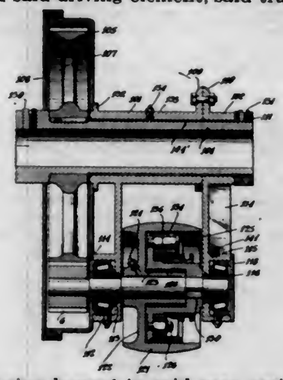
2,161,429

POWER TRANSMISSION DEVICE

David K. Pilkington, Sunbury-on-Thames, England, assignor, by mesne assignments, to Richard Lewis Woodhouse, Melbourne, Victoria, Australia

Application April 17, 1936, Serial No. 74,856
In Great Britain May 9, 1935
4 Claims. (Cl. 74—242.9)

1. A belt gear comprising a pulley, a shaft therefor, a driving element for attachment to the shaft of a machine to be driven, a carrier for said pulley shaft mounted to swing on said driving element, said carrier embodying a sleeve formed in sections connected together, a gear casing at the end of one of said sections, bearings for said pulley shaft, bearing supports carried by said sections, transmission gearing between said shaft and said driving element, said transmission



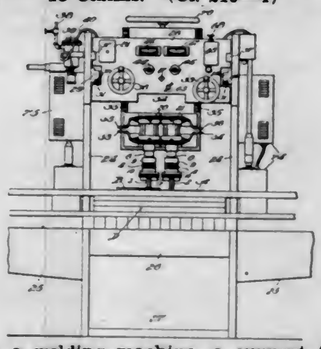
gearing being housed in said gear casing, and a clutch between said pulley and said pulley shaft.

2,161,430

WELDING MACHINE

Joseph A. Potchen, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, a corporation of New York

Application May 16, 1938, Serial No. 208,152
13 Claims. (Cl. 219—4)



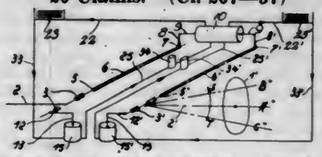
1. In a welding machine, a support for materials to be welded, a carriage above and spaced apart from said support, a welding circuit mounted on said carriage and terminating in contact members, and fluid pressure responsive devices on the carriage supporting and serving to raise and lower said contact members.

2,161,431

SPRING SUSPENSION

Karl Rabe, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany

Application October 12, 1934, Serial No. 748,051
In Germany October 16, 1933
20 Claims. (Cl. 267—57)



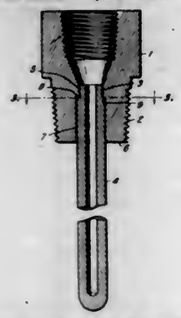
1. In a vehicle, a body frame, a road wheel, a support for said road wheel and spring means connected at one end to said road wheel support and coacting at the other end with an abutment on said frame, and liquid pressure means interconnecting said abutment and frame for varying the relationship between said spring and said abutment.

2,161,432

PYROMETER WELL

Frank H. Rees, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

Application January 18, 1937, Serial No. 121,049
2 Claims. (Cl. 136—4)



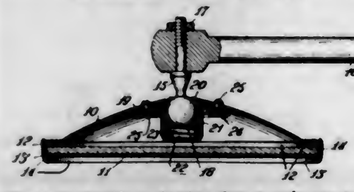
1. In a thermometer well a bushing adapted to be threadedly supported by a wall of a chamber, the temperature of which it is desired to measure, a bore formed within said bushing, said bore being provided with an internal shoulder at a point removed from the lower end of said bushing, screw threads provided within said bore above said shoulder and a thermometer tube provided with coacting screw threads and shoulder at its upper end adapted to be seated in said bushing bore with said tube shoulder sealed against said bore shoulder, the external diameter of said thermometer tube being substantially the same as the internal diameter of said bore whereby said thermometer tube will be supported by the interior walls of said bushing.

2,161,433

REAR VIEW MIRROR

Oliver C. Ritz-Woller, Chicago, Ill.

Application April 15, 1936, Serial No. 74,522
2 Claims. (Cl. 287—21)



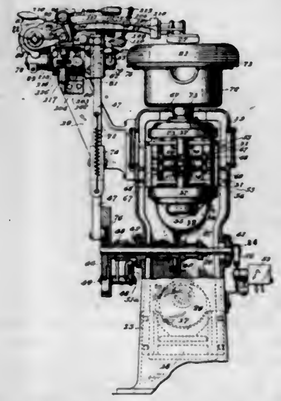
1. In a mounting device for a mirror arranged for application in unit form on the concave face of a dished casing member, the combination of a backwardly bowed plate having an opening therethrough, a pin having a rounded head on its forward end portion mounted in said opening with the shank of the pin extending rearwardly from the face of the plate, a housing member comprising a backwardly open cup-shaped portion and a flange portion extending outwardly from the cup-shaped portion, means for mounting said flange portion rigidly on the front face of said bowed plate for holding the cup in position about the head of said pin, and a coiled spring in said cup-shaped portion strongly compressed between the end wall of the cup and the front face of the head of the pin for holding the pin in adjusted angular position with respect to said bowed plate.

2,161,434

HAT-BRIM FLANGING MACHINE

Paul Schultze, Danbury, Conn., assignor to Doran Bros., Inc., Danbury, Conn., a corporation of Connecticut

Application December 23, 1936, Serial No. 117,310
22 Claims. (Cl. 223—21)



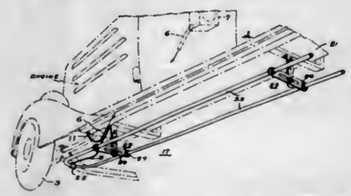
1. A hat flanging machine of the class described comprising a lathe spindle, spaced apart flanged oval shaped cams mounted thereon, rollers positioned on opposite sides of the flange of each of said cams one of said rollers being a driven roller and the other an idler roller, spring means for holding the idler roller against the cam in a way to support the latter.

2,161,435

ANTENNA SYSTEM FOR MOTOR VEHICLES

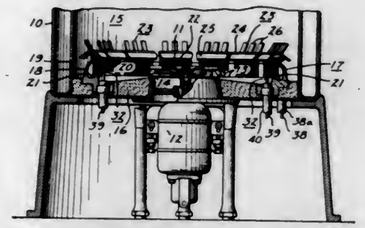
Rogers M. Smith, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 31, 1935, Serial No. 24,234
6 Claims. (Cl. 250—33)



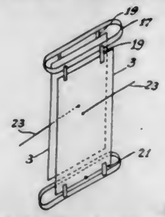
1. An antenna for use on an automobile with a radio receiver, comprising a folded linear conductor with arms coextensive, means for insulatingly mounting said conductor on said automobile, and a lead-in connected to said antenna for operating same as a capacity type for receiving relatively long waves, the connection being at a point of electrical balance for neutralizing short-wave interference in said antenna.

2,161,436
OIL BURNING APPARATUS
William J. Smith and William W. Slaght, Rocky River, Ohio, assignors to Cleveland Steel Products Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 20, 1937, Serial No. 180,867
8 Claims. (Cl. 158—4)



1. In combination in an oil burning apparatus having a hearth and means for projecting oil and air across the hearth, a combustion ring of imperforate material extending upwardly from the hearth in the path of fuel projection, and means immediately in front of said ring for finely dividing and vaporing the discharged oil comprising a fine mesh refractory screen of high heat resistance.

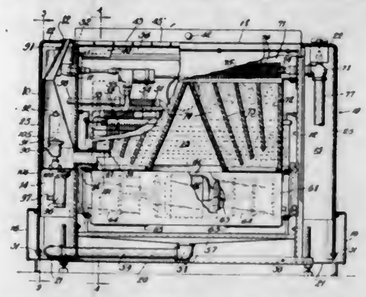
2,161,437
CATHODE RAY DEFLECTING ELECTRODE
Carlton S. Sprague and Roscoe H. George, West Lafayette, Ind., assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application September 30, 1935, Serial No. 42,823
5 Claims. (Cl. 250—159)



1. An electrode assembly for deflecting electron beams within a cathode ray tube comprising a pair of elongated spaced and parallelly disposed deflecting electrodes; a ring-like electrode positioned at at least one end of said deflecting electrodes, said ring-like electrode lying in a plane parallel to the direction of movement of the beam between the deflecting plates, said ring-like electrode being located in the area between said deflecting electrodes; and means for establishing electrical contact between said ring-like electrode and one only of the deflecting electrodes.

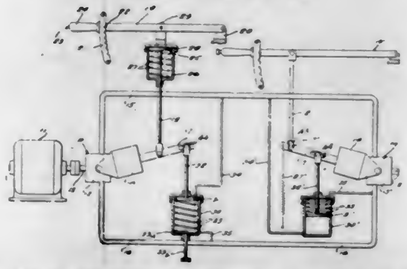
2,161,438
AIR CONDITIONING APPARATUS
Matson C. Terry, New Rochelle, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application April 6, 1937, Serial No. 135,271
11 Claims. (Cl. 257—138)

11. In air conditioning apparatus for use in room spaces, the combination of an enclosing casing having spaced inlet and outlet openings; wall means in said casing providing an air passage connecting said inlet and outlet openings; a blower in said casing providing for the flow of air through said passage from the inlet to the outlet and into the room space; a heating device arranged across the passage and in the path of the air stream at the discharge side of the blower; an L-shaped conduit separate from said passage and arranged within said casing with the free end of one leg extending laterally into said passage and with the other leg extending in the general direction of flow of the air stream and terminating at points beyond the



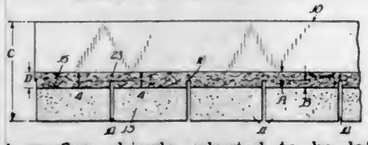
heating device; the free end of said one leg being open and facing generally in an up-stream direction so as to provide for the diversion of a portion of the air stream thereinto and for the positive flow of such diverted portion through said conduit; the free end of said other leg being open and so arranged that the diverted portion of the air stream mixes with the main body of the air stream after the latter has passed over the heating device; and means for adding moisture to said diverted portion as it flows through said conduit.

2,161,439
CONTROL MECHANISM FOR HYDRAULIC TRANSMISSIONS AND PUMPS
Hans Thoma, Karlsruhe-Baden, Germany
Application May 4, 1936, Serial No. 77,825
In Germany May 9, 1935
2 Claims. (Cl. 60—53)



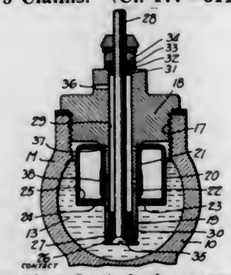
2. In a hydraulic transmission system including a variable volume pump, a variable volume motor, and connecting conduits, volume varying controlling means for said pump and said motor, and means responsive to the pressure in one of said conduits for respectively inversely and simultaneously varying the volume of said pump and said motor, said last means including a beam pivotally mounted for oscillation about a fixed axis, and links pivotally mounted near each end of the said beam and respectively pivotally interconnected with the control means on said pump and motor.

2,161,440
SHINGLE
Emmett E. Venrick, Kansas City, Mo., assignor to American Asphalt Roof Corporation, Kansas City, Mo., a corporation of Missouri
Application February 21, 1936, Serial No. 65,043
5 Claims. (Cl. 108—7)



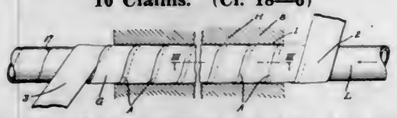
1. A roofing shingle adapted to be laid in courses in overlapping relation, said shingle having cut-out portions on the exposed butt end forming a plurality of tabs, a grit surfacing of mineral granules on the upper face of the tabs, and a raised longitudinal strip disposed centrally of the width of the shingle and extending the length thereof, said strip being adhesively secured to the shingle along its entire length and having a thickness to materially increase the thickness of the shingle along said strip, the central disposition of said strip having the effect of increasing the strength and rigidity of the shingle along the longitudinal central section thereof and which includes the upper portion of said tabs.

2,161,441
WARNING SIGNAL FOR BRAKING SYSTEMS
Theodore W. Vickers, Los Angeles, Calif.
Application July 27, 1936, Serial No. 92,746
5 Claims. (Cl. 177—311)



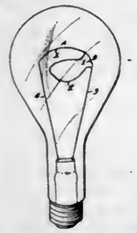
1. An actuating float device responsive to low liquid level or impure liquid comprising a hollow float; means mounting the float in a fluid chamber to respond to variations in liquid level; and means coacting with the float to seal the latter against the ingress of liquid, and to unseal the float should the latter become deformed by the action of an impure liquid thereon.

2,161,442
VULCANIZING DEVICE
Archibald L. Wallace, Brooklyn, N. Y., assignor to Richard H. Crook, as trustee
Application April 5, 1934, Serial No. 719,122
10 Claims. (Cl. 18—6)



1. A confining medium for hose during vulcanization, said confining medium consisting of an endless metallic ribbon wound spirally upon the hose for a plurality of overlapping convolutions.

2,161,443
MULTIPLE FILAMENT ELECTRIC INCANDESCENT LAMP
Isador Warshawsky, Brooklyn, N. Y., assignor of twenty per cent to Jacob Warshawsky and twenty per cent to Nettie Warshawsky, both of Brooklyn, N. Y.
Application December 16, 1938, Serial No. 246,038
6 Claims. (Cl. 176—26)



1. An electric incandescent lamp having a main filament connected to the leads brought inside the bulb, and a reserve filament shunted across, and virtually short-circuited by, a portion of said main filament of weaker construction and very low resistance, so that when said main filament reaches the end of its incandescent life, said weaker portion of low resistance ruptures, and the reserve filament is brought into incandescent operation, in series with the remaining portion of the main filament.

2,161,444
IMPELLER FOR WIND-DRIVEN POWER APPARATUS
Gerhard H. Albers, Sioux City, Iowa, assignor to Wincharger Corporation, Sioux City, Iowa, a corporation of Minnesota
Application July 7, 1938, Serial No. 217,839
13 Claims. (Cl. 170—159)

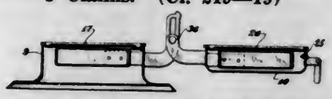


1. In a rotatable impeller for wind-driven power apparatus, a radially extending blade formed with two flat surfaces upon the front face thereof adjoining each other lengthwise of the blade, one of said surfaces extending in a continuously flat plane substantially coincident with the plane of rotation of said impeller and increasing in width toward the tip of said blade, and the other of said surfaces extending in a plane having a relatively high angle to said plane of rotation and decreasing in width toward the tip of said blade.

2,161,445
RUBBER COMPOUNDING
John M. Ball, Pelham, N. Y., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 15, 1936, Serial No. 115,956
5 Claims. (Cl. 106—23)

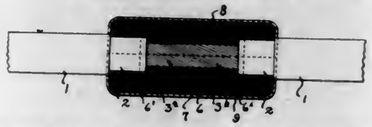
1. Rubber articles capable of resisting swelling when in contact with hydrocarbons including a rubber composition obtained by preparing an aqueous mixture of latex and dextrin from which substantially all of the water has been removed, and additional rubber mixed therewith and vulcanized.

2,161,446
CONSTRUCTION OF ELECTRICAL APPLIANCES
William A. Barnes, Mansfield, Ohio, assignor to Dominion Electrical Manufacturing Company
Application January 31, 1938, Serial No. 187,882
3 Claims. (Cl. 219—19)



2. In an electrical cooking apparatus having a first casing part with a second casing part hinged thereto, in combination, electrical heating elements in said casings, a supporting member in each casing for the heating element, first arm means extending through said first casing and attached to said first supporting member, second arm means extending through said second casing and attached to said second supporting member, off-set means on said arm means preventing lateral movement between said arm means and said casings, a slotted portion in one of said arm means to allow movement of one of said casing parts with respect to the other, and pivot means through said arm means.

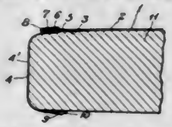
2,161,447
METHOD OF OBTAINING ELECTRICAL INSULATION AND THE PRODUCT
Richard E. Bishop, South Orange, N. J., assignor to A. C. Horn & Company, Long Island City, N. Y., a corporation of New York
Application December 11, 1937, Serial No. 179,376
4 Claims. (Cl. 174—84)



1. A method of insulating a live electrical conductor which comprises encasing the conductor within a thin insulating layer and molding a plastic rubber mass therearound capable of setting, which is conductive while plastic and insulating when set to form an insulating protection therefor.

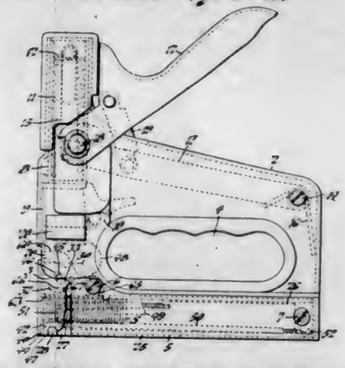
2,161,448
SEAT COVER
George E. Bishop, Cleveland Heights, Ohio
Application May 28, 1938, Serial No. 210,667
1 Claim. (Cl. 155—182)

A cover for a seat consisting of a fiber body member adapted substantially to cover that portion of the seat with which the occupant of the seat normally comes in contact, and a fabric peripheral member for the side of the seat, said peripheral member forming a binding trim in that it is secured by fastening means adjacent one edge to one side of the body member and then folded upon itself to conceal said fastening means and passed around the edge of the



body member and is secured in a single ply and exteriorly of the aforementioned fastening means to the opposite side of the body member and to its folded portions, said peripheral member extending outwardly from said trim in a width sufficient to pass around the side of, and extend to the rear of, the seat, and a draw cord for the free edge of the peripheral member.

2,161,449
FASTENER APPLYING IMPLEMENT
Louis G. Blumenbaum, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application July 22, 1937, Serial No. 154,997
11 Claims. (Cl. 1—49)



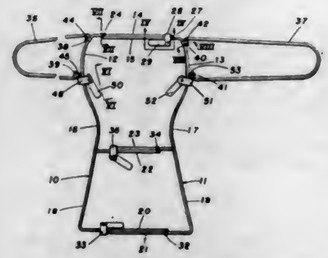
1. In a fastener-applying implement of the type comprising a magazine provided with a movable closure to adapt fasteners to be supplied thereto, the combination with said magazine of a retainer having a substantially flat friction face engageable simultaneously with a plurality of adjacent fasteners in the magazine to retain them against ejectment from the magazine when the closure is opened.

2,161,450
SNOW FENCE
Carl P. Bohland, Watertown, S. Dak.
Application December 8, 1937, Serial No. 178,736
5 Claims. (Cl. 256—24)



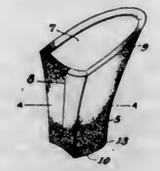
1. A snow fence comprising a series of alined fence sections each section comprising an upper horizontal rail and a corresponding lower rail and a number of suitably spaced upright slats retained in said rails, means for detachably connecting said rail sections end to end, a number of fence posts corresponding to the number of fence sections, said posts slotted to permit reciprocating vertical movement of the fence sections therein and means for actuating said fence in vertical plane and holding the entire fence in any desired elevation.

2,161,451
GARMENT BLOCKER
Frank J. Bolek and Thomas S. Levis, Chicago, Ill., assignors to Joseph Irvin Thompson, Chicago, Ill.
Application June 1, 1937, Serial No. 145,735
4 Claims. (Cl. 223—69)



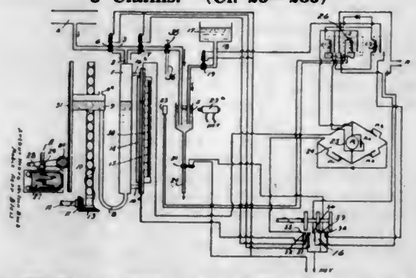
1. In a device of the character described, the combination with elongated wire members having smooth surfaces throughout the length thereof, said wire members being disposed relative to each other as complements with overlapping end portions in the plane of said relatively disposed wire members to define a garment outline of adjustable size, straps embracing said overlapping end portions to guide one relative to the other in the plane of said garment outline to enlarge or diminish the size thereof, locking means adjustably confined within the plane of said wire members defining said garment outline, and cam engaging portions on said locking means effective responsive to the displacement thereof within said garment outline to frictionally maintain said complemental members in adjusted relation.

2,161,452
HEEL FOR SHOES
Joseph Burger, Forest Hills, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 30, 1937, Serial No. 177,213
6 Claims. (Cl. 36—34)



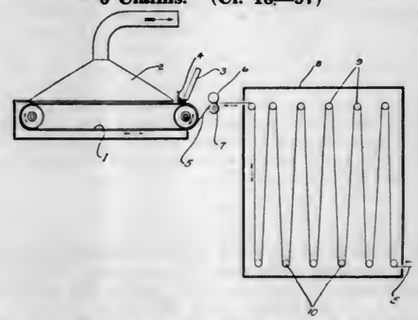
6. A heel for a shoe comprising a rigid block and a flexible cover which is shaped and secured to the block, said cover consisting of thin cork composition the exposed surface of which is of granular appearance and the inner face of which is secured to a backing material.

2,161,453
AUTOMATIC FLUID ANALYZER
Arthur Henry Wilson Busby and Robie Kerr Blois, Trail, British Columbia, Canada, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a corporation of Canada
Application May 22, 1937, Serial No. 144,232
5 Claims. (Cl. 23—253)



1. Fluid analyzing apparatus comprising a measuring chamber, liquid displacement means for alternately drawing a representative fluid sample into said measuring chamber and forcing it therefrom into a titration chamber in communication with said measuring chamber, said titration chamber being interposed between a light projector and a photo-electric cell, means controlled by said photo-electric cell for introducing a predetermined quantity of titrating solution into said titration chamber prior to the introduction of said sample thereinto, means controlled by said photo-electric cell for indicating the amount of sample necessary to cause the required color change at the "end-point" of the reaction between the sample and said titrating solution and means for discharging the contents of the titration chamber after completion of each analysis.

2,161,454
METHOD OF PRODUCING RUBBER HYDROCHLORIDE FILMS
William C. Calvert, Chicago, Ill., assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application September 23, 1936, Serial No. 102,225
6 Claims. (Cl. 18—57)



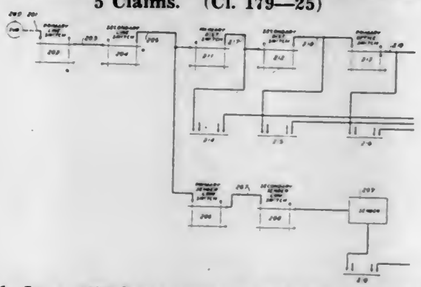
3. The method of producing rubber hydrochloride film which comprises casting a thin film of a benzene cement of a rubber hydrochloride, evaporating solvent from one surface of the cement film thus formed to reduce the benzene content to 5–15% of the weight of the rubber hydrochloride thereby forming a film having irregularities in the surface from which the benzene is evaporated which irregularities reduce

the transparency of the film, smoothing out said irregularities to increase the transparency of the film and without substantial elongation, by bringing said surface into contact with a highly polished surface while the film is passed over a resilient support, and then evaporating the balance of the benzene.

2,161,455
CONCENTRATION OF LATEX
Albert M. Clifford, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 31, 1935, Serial No. 47,728
5 Claims. (Cl. 18—50)

1. The method of concentrating latex by evaporation which comprises heating latex to which a di-alkali metal salt of a phosphoric acid ester of a higher aliphatic primary alcohol has been added.

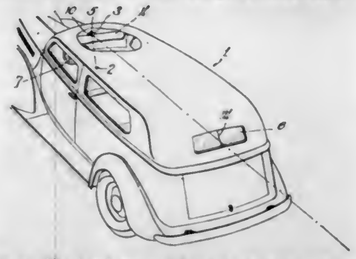
2,161,456
TELEPHONE SYSTEM
Raymond E. Collis, Summit, N. J., and James B. Newsom, Great Neck, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 17, 1938, Serial No. 214,355
5 Claims. (Cl. 179—25)



1. In a telephone system, a group of trunks, two markers having simultaneous access to said group, each marker provided with means for testing the trunks and for selecting an idle one for use, means in one of said markers effective upon selection of a trunk for making a test to determine if another marker has selected the same trunk, means in a second one of said markers effective after an interval following the selection of a trunk by said second marker for making a test to determine if another marker has selected the same trunk, and means in the marker that is first to perform the said test for causing it to release the trunk which it has selected if the test indicates that another marker has selected the same trunk.

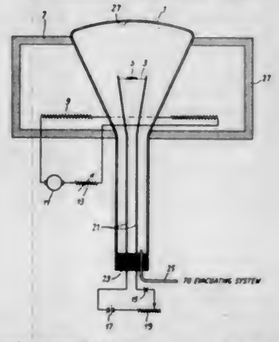
2,161,457
INDICATING DEVICE FOR AUTOMOBILES
Francis B. Critchlow, Los Angeles, Calif.
Application March 14, 1938, Serial No. 195,709
3 Claims. (Cl. 88—2.2)

1. A steering gauge for a land vehicle to facilitate driving the same rearwardly in a straight line toward an observable objective in rear of the vehicle, the latter having a rear view mirror and transmission mechanism for driving the vehicle backwardly; said steering gauge comprising an index on said rear view mirror and an index fixed to the rear of the vehicle within the field of view of the driver when looking into the mirror and rearwardly to see the road in the path of rearward travel toward said objective, one of said indices extending generally vertically and the other being narrow, whereby the indices may be brought laterally into alignment, and both being disposed in a line parallel to the longitudinal axis of the



vehicle so that when said indices are maintained in alignment with each other and with said objective in the line of sight of the driver the vehicle, if driven in a straight line, will travel in a direction toward said objective while the road between the latter and the vehicle is within the view of the driver.

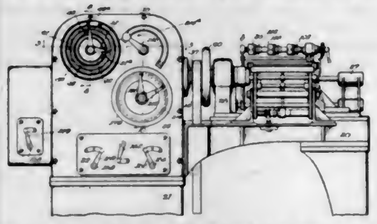
2,161,458
LUMINESCENT SCREEN
Jan Hendrik de Boer and Marten Cornelis Teves, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application September 22, 1936, Serial No. 101,912
In Germany May 29, 1935
8 Claims. (Cl. 250—27.5)



7. A luminescent screen comprising a supporting surface, a transparent layer of relatively good electrically conducting oxide of a metal on the supporting surface and a layer of cathodo-luminescent inorganic metallic compound supported on said transparent layer.

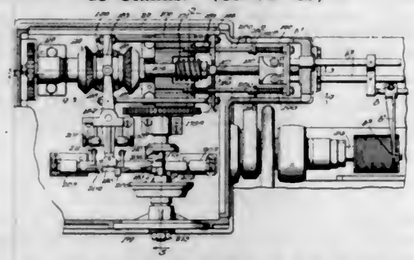
2,161,459
WINDING MACHINE
Peter P. Demay, Downers Grove, Ill.
Application December 9, 1935, Serial No. 53,446
6 Claims. (Cl. 242—9)

1. In mechanism for controlling the operation of a power-driven machine for continuously winding a series of layers of wire on a core, the combination of a clutch for controlling the operation of the machine, a register for the number of windings including unit and multiple indicators, mechanism for driving the register from the clutch, means for selectively setting the indicators according to different selected total numbers of windings desired, and means controlled



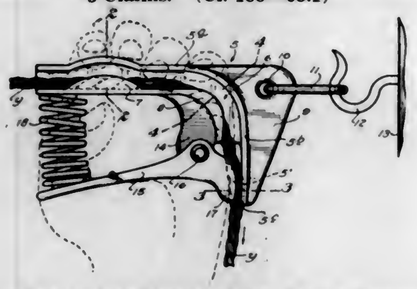
by the setting of the indicators for actuating the clutch to positively stop the machine.

2,161,460
RECIPROCATING MECHANISM FOR WINDING MACHINES
Peter P. Demay, Downers Grove, Ill.
Original application December 9, 1935, Serial No. 53,446. Divided and this application August 9, 1937, Serial No. 158,160
15 Claims. (Cl. 74—59)



1. In mechanism for reciprocating a carriage, the combination of reversible clutch mechanism, a rotatable element driven by said mechanism and connected to reciprocate the carriage, and mechanism for controlling the clutch mechanism comprising a pair of rotatable cams driven from said mechanism, a clutch for driving one of the cams and means for setting the latter clutch to rotatably adjust one cam relatively to the other for varying the length of the strokes of the carriage.

2,161,461
CLOTHESLINE FASTENER
Frank J. Doherty, Superior, Wis., assignor of three-tenths to James J. Conroy and two-tenths to Louis G. Nagler, both of Superior, Wis.
Application March 17, 1938, Serial No. 196,382
3 Claims. (Cl. 188—65.1)



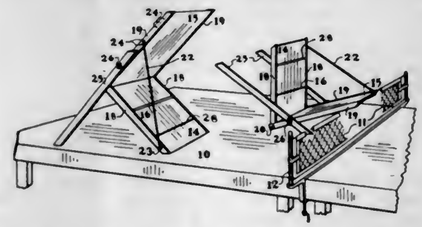
1. In a device of the kind described, an approximately L-shaped body having a relatively long upper and a relatively short depending arm, said body being formed with an approximately L-shaped guide channel that is open at one side throughout its L-shaped portion, the short arm of said body terminating in a clamping abutment, a clamping lever pivoted to said body and having a short end acting as a clamping jaw opposed to the abutment-forming portion of said body, said lever having a long arm spaced from but extending in such near parallelism to the long arm of said body that both may be gripped by one hand, to release said lever, and a spring compressed directly between reacting against said clamping lever and overlying body and normally causing said lever to grip a line.

2,161,462
COMPOSITION OF MATTER
Albert L. Flenner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 30, 1938, Serial No. 222,217
16 Claims. (Cl. 167—22)

16. A composition of matter in the form of a dispersible free-flowing powder for use in preparing horticultural sprays having essentially the following composition:

	Per cent
Thio-diphenylamine	92
Technical dodecyl alcohol	1
Celite	5
Tricalcium phosphate	1
Sulfonated condensation product of naphthalene and formaldehyde	1

2,161,463
BALL RETURNING TARGET FOR TABLE TENNIS
Harold P. Frost, Worcester, Mass.
Application July 6, 1937, Serial No. 151,978
17 Claims. (Cl. 273—30)



1. A target for table tennis comprising boards having extensive substantially plane rebounding surfaces, the planes of which meet in a substantially horizontal line and means for supporting the same on the tennis table top and for securing them in such contiguity and angular arrangement that a ball driven within bounds will strike and bounce between said surfaces and be returned to the player for a return stroke.

2,161,464
SECURING DEVICE
Gustave François Leon Gilbert, Houilles, France
Application January 22, 1938, Serial No. 186,311
In France January 25, 1937
5 Claims. (Cl. 85—9)

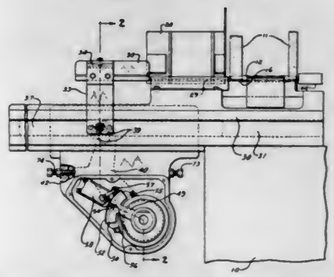
1. In a device to secure plates together a resilient member formed by a clip having two branches, a rod slidably mounted with respect

to the said clip, said rod being provided with means enabling to move apart said branches



according to the position which it occupies with respect to the branches of the said clip.

2,161,465
GRINDING MACHINE
Frederick S. Haas, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application October 27, 1937, Serial No. 171,310
13 Claims. (Cl. 51—103)



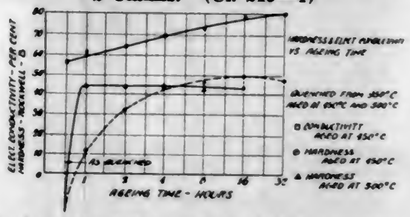
5. The combination with a centerless grinder having opposing grinding and regulating wheels providing a work receiving throat and means for automatically varying the width of said throat, of a prime mover, means for effecting movement of a work piece in the throat, a friction safety device, and means operable upon slippage of the safety device beyond prescribed limits for stopping the prime mover.

2,161,466
ELECTRON OPTICS
Walter Henneberg, Berlin-Charlottenburg, Germany, assignor to Allegemeine Elektricitatz Gesellschaft, Friedrick Karl, Berlin, Germany
Application July 8, 1936, Serial No. 89,507
In Germany May 20, 1935
4 Claims. (Cl. 250—27.5)



1. The method of reflecting electrons which comprises the steps of developing a retarding field of substantially continuous equi-potential contours, directing a beam of electrons toward the developed field, said beam having a cross-sectional area relatively small compared to the area of the developed retarding field, and regulating the gradient of the developed field to prevent the directed beam of electrons from completely penetrating the developed field.

2,161,467
ALLOY
Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application June 15, 1937, Serial No. 148,283
2 Claims. (Cl. 219—4)

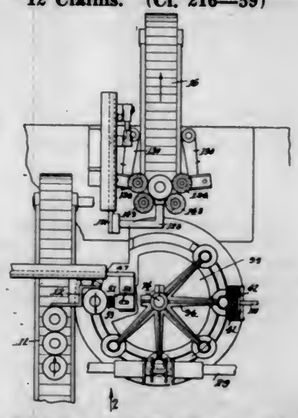


1. A pressure exerting electrode composed of about 0.1–10% zinc, 0.1–5% zirconium, and the remainder copper.

2,161,468
COPPER BASE ALLOY
Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application February 24, 1939, Serial No. 258,185
1 Claim. (Cl. 75—153)

An alloy of .002 to .1% lithium, .1 to 5% zirconium and the balance substantially all copper.

2,161,469
LABELING MACHINE
Carl Holm, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a corporation of Massachusetts
Application August 11, 1936, Serial No. 95,371
12 Claims. (Cl. 216—59)

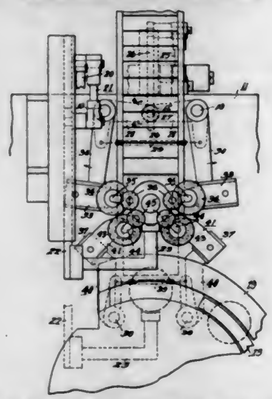


2. In a labeling machine, the combination of a frame, a central rod extending to the top of the frame and having arms projecting radially therefrom, caps mounted on said arms for engaging and holding the tops of articles carried by the machine, a sleeve on said rod, an article support on said sleeve, a bearing at the bottom of the sleeve, and means for moving the bearing and sleeve up for the purpose of applying pressure to the bottoms of the articles against said caps.

7. In a labeling machine, the combination of a circular article supporting device, oscillatable about its vertical axis and movable up and down,

means for transferring in a radial direction an article to be labeled on the oscillatable article support when it is down, a stationary circular article support for supporting the articles in stationary position when the oscillatable article support moves backward in its lower plane, and means for moving the oscillatable article supporting device above the stationary article support, whereby the article moves forward with the oscillatable support in an intermittent rotary action.

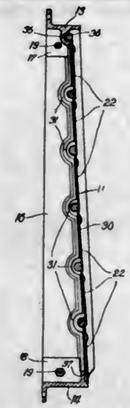
2,161,470
ROLLING LABEL WIPER
Carl Holm, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a corporation of Massachusetts
Original application August 11, 1936, Serial No. 95,371. Divided and this application April 8, 1937, Serial No. 135,794
3 Claims. (Cl. 216—37)



1. In a labeling machine, the combination of a circular path for the articles to be labeled, means for discharging said articles radially at one point, means for performing the final wiping operation of both neck and body labels during said radial motion of the article being labeled comprising neck and body rotary wipers, the surfaces of which are capable of moving along with the respective articles with labels thereon, and rollers in position for engaging and holding the labeled articles after they have been operated upon by said wipers.

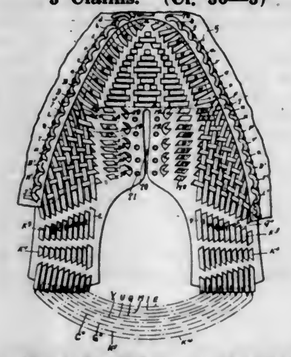
2,161,471
VENTILATING APPARATUS
Herman C. Hueglin, Chicago, Ill., assignor to Airmaster Corporation, Chicago, Ill., a corporation of Illinois
Application September 18, 1936, Serial No. 101,423
2 Claims. (Cl. 98—119)

1. A louvre comprising, in combination, a rectangular frame defining an air duct including an upper and a lower frame member, said upper frame member having a depending flange with a longitudinal groove opening outwardly and said lower frame member having an upstanding flange, and a pair of side members each provided with an inwardly extending flange having oppositely positioned spaced apart recessed portions, the outer surfaces of said flanges being substantially coplanar; a plurality of louvre elements disposed in overlapping relation between said side members; a ridge extending along one edge of each of said louvre elements, the ridge of the top louvre element interfitting with said groove in said flange depending from said upper frame member; and bearing pins extending inwardly from said side members in said recessed



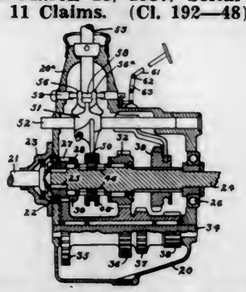
portions into the ends of the ridges on said louvre elements for rotatably mounting them about axes substantially coplanar with the outer surfaces of said flanges.

2,161,472
WOVEN SHOE
Sol Hurwit, Los Angeles, Calif.
Application December 30, 1938, Serial No. 248,591
3 Claims. (Cl. 36—3)



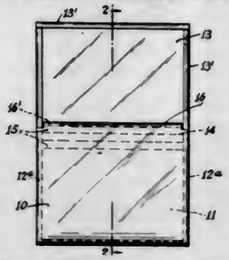
1. An oxford shoe having an insole with a row of perforations adjacent to and substantially parallel with each of its opposite edges, an upper consisting of a toe portion, instep portions, and quarters formed integrally with each other, said upper having a plurality of rows of slits on the toe portion, on the instep portions, and on the said quarters, said instep portions each having a row of eyelets at the upper edge thereof, a toe-course of transverse strips formed of a lacing laced through the forward perforations of the insole and through the slits of the said toe portion so that the said strips are composed of pairs of transverse strips attached through a corresponding single perforation at one side, an instep course of strips at each side of the upper, each instep course being laced through the perforations of the insole and passing through the slits of the instep portion and up to a point adjacent the eyelets, and a quarter course of strips laced through the slits of the quarters and interwoven with the strips of the instep course.

2,161,473
POWER-TRANSMISSION MECHANISM
Arnold H. Jessen, Los Angeles, Calif.
Application March 15, 1937, Serial No. 130,837
11 Claims. (Cl. 192—48)



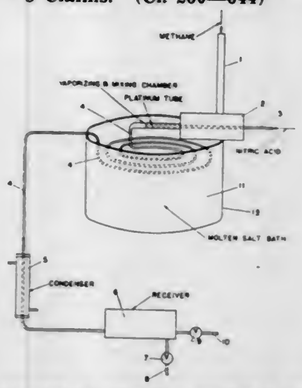
1. In clutch means for connecting two relatively rotatable members, said members being axially alined, a driven shaft extending axially within said members, both of said members having axial bores about the shaft and larger than the shaft whereby a circumferential space is left between the shaft and the inner walls of said bores, the shaft being provided with grooves at those parts which are surrounded by said spaces, said grooves having an inclined side wall serving as a cam, clutch elements within said spaces and grooves, a pair of cages surrounding the driven shaft between the said members, means projecting from one of the cages into the space of one member and engaging the clutch elements in said space to move said elements, similar means projecting from the other cage into the space within the other member and engaging the clutch elements therein, the adjacent ends of the cages each being provided with a slot and the driven shaft also having a slot adapted to register with the slots in the cages, a collar surrounding the said cages, a lug projecting from said collar through one or both of said cages and into the slot in the said shaft, means for shifting the said collar longitudinally of the shaft to cause the lug thereon to engage one or both the collars within the slots therein, whereby either or both of said collars becomes locked to the shaft or is freed from the shaft and the freed collar may turn on the shaft to move its clutch elements up an inclined side of the groove in the shaft and into clutching relation with the respective gear.

2,161,474
CELLOPHANE TOBACCO POUCH
Louis M. Klein, New York, N. Y., assignor to American Pouch Corporation, a corporation of Illinois
Application September 22, 1937, Serial No. 165,102
11 Claims. (Cl. 229—87.5)



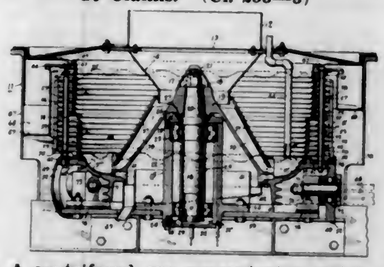
9. A Cellophane tobacco pouch, comprising Cellophane material in the form of a pouch container open at the top and a flap portion continuing from one of the sides of the container for closing same, a reinforcing strip of relatively stiff material attached on said container along said open top and spaced in slightly from the free edge of said opening, and tacky material on the inner face of said container along an edge of said reinforcing strip and adapted to stick on the opposite side of the opening to close said container, said tacky material being spaced in from the free edge of said open top so that there is a free edge portion usable as a grip for pulling open the closed container.

2,161,475
PROCESS OF NITRATING METHANE
George K. Landon, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application August 2, 1938, Serial No. 222,580
5 Claims. (Cl. 260—644)



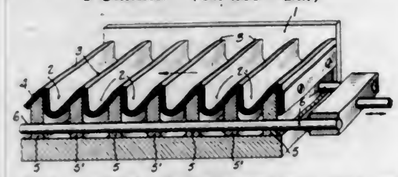
1. The process of nitrating methane which includes producing contact between methane and nitric acid in the vapor phase in a reaction vessel having a ferrous inner surface and having a ratio of surface area to volume less than that of a ¼'' tube, at a temperature within the range of about 375° C. to about 550° C. and at a contact time in the reaction zone within the range of about 1.0 seconds to about 0.005 seconds, rapidly removing the reaction mixture from the reaction zone, and cooling it.

2,161,476
ORE CONCENTRATOR
Alfred H. Leja, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application January 26, 1938, Serial No. 186,930
10 Claims. (Cl. 233—3)



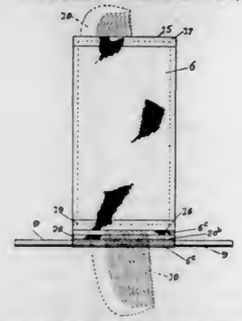
1. A centrifugal ore concentrator which comprises a bowl, riffles disposed inside of the bowl and arranged transversely of the bowl axis, means for periodically varying the width of the grooves between riffles while in contact with the ore pulp being concentrated, and means for rotating the bowl.

2,161,477
METHOD OF CONCENTRATING ORES
Alfred H. Leja, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application January 26, 1938, Serial No. 186,931
5 Claims. (Cl. 209—422)



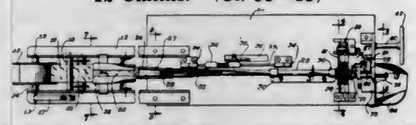
1. The method of concentrating ores which comprises passing the pulp containing ore to be concentrated along a surface composed of riffles arranged transversely to the flow of pulp, periodically widening and narrowing the grooves between the riffles and collecting the concentrates deposited in the grooves.

2,161,478
SLEEVE HAIR CURLER
Nettie Locke, Seattle, Wash.
Application October 3, 1938, Serial No. 232,983
1 Claim. (Cl. 132—43)



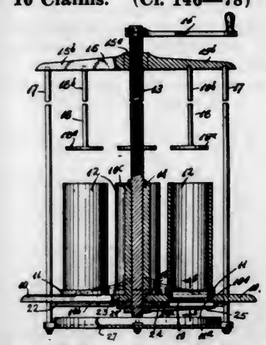
A device of the kind described including, a fabric sleeve, a longitudinal flap extension of one end of said sleeve on one side thereof, and a flexible roller longer than the width of said sleeve fastened to said flap transversely thereof adjacent said one end of said sleeve.

2,161,479
WRAPPER TUBE FORMING MACHINE
Vern R. Luce, Los Angeles, Calif.
Application April 12, 1938, Serial No. 201,544
12 Claims. (Cl. 93—18)



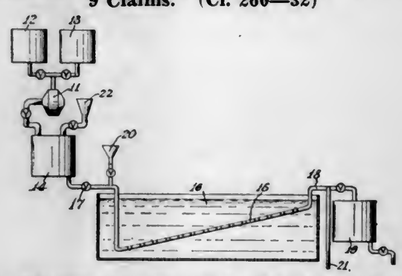
1. In a wrapper tube forming machine, a table, a plunger mounted for reciprocatory movement on said table, means for delivering wrapping material in tubular form to said plunger, means mounted on the table for twisting the end of the tubular wrapper in advance of the forward end of said plunger, means for severing the wrapper tube at a point to the rear of its twisted forward end and means for imparting reciprocatory movement to said plunger.

2,161,480
AUTOMATIC CUTTING AND SLICING MACHINE
Raymond MacHaynes, Bethpage, N. Y.
Application April 22, 1938, Serial No. 203,486
10 Claims. (Cl. 146—78)



1. An automatic cutting and slicing machine, comprising a base with openings, a cylinder mounted on each opening, a screw member rotatively mounted on said base and extending longitudinally of said cylinders, a follower arm threadedly engaging said screw, means for turning said screw, means for movably holding said follower arm to limit its turning and causing it to move longitudinally of said screw when the screw is turned, a pressure disc for each cylinder and mounted on said follower arm and engageable into the tops of said cylinder, stationary blades mounted across said openings in the base, movable blades radially slidable relative to said screw member and mounted beneath said base and immediately adjacent said openings, an eccentric disc mounted on said screw member and connected with said movable blades to reciprocate them as the screw member turns, and a revolving blade mounted on said screw member and transversing the compass immediately below said moving blades.

2,161,481
PROCESS OF POLYMERIZATION
Barnard M. Marks, Clifton, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 1, 1937, Serial No. 161,913
9 Claims. (Cl. 260—32)



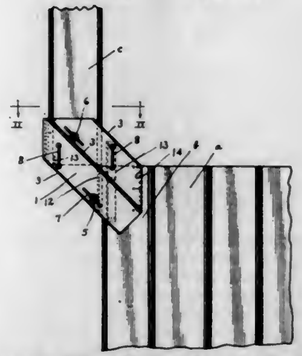
1. Process of preparing a dispersion of a polymerized organic compound in a liquid vehicle

which comprises emulsifying a polymerizable organic liquid in a non-solvent liquid vehicle, and continuously flowing said emulsion through a heated tube for a period of time sufficient to convert said polymerizable liquid to polymer, said emulsion being kept constantly in a state of agitation throughout the period said polymerizable liquid is undergoing polymerization by maintaining the flow of said emulsion at a rate sufficient to insure a state of turbulent flow.

2,161,482
ASSEMBLING INSTRUMENT FOR PILING

James S. Miller and Byron E. Rhoads, Neville Island, Pa., assignors to Dravo Corporation, a corporation of Pennsylvania

Application August 30, 1938, Serial No. 227,511
4 Claims. (Cl. 61—53)

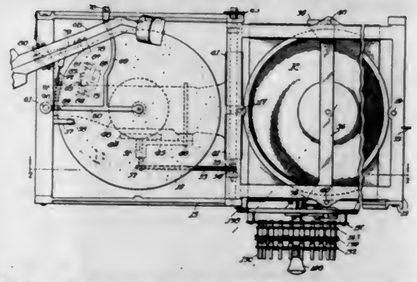


1. An assembling fixture for sheet piling consisting of two plates, spacing members borne by the plates, and means borne by the plates for securing them rigidly in application upon opposite faces of a length of piling with lateral extension therefrom, the said plates with their spacing members forming in such assembly an eye adapted to be closed upon the edge of an adjacent length of piling that stands in edge to edge alignment, the assembly permitting relative transverse movement within fixed limits between the two lengths of piling in the direction of their planar extent and unlimited relative longitudinal movement.

2,161,483
AUTOMATIC PHONOGRAPH

Emil C. Mueller, Chicago, Ill., assignor to John Gabel Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application January 5, 1938, Serial No. 183,533
14 Claims. (Cl. 274—10)

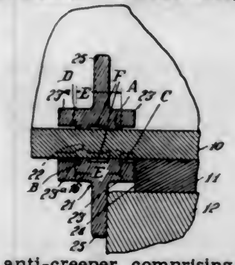


3. In an automatic phonograph, the combination of a turn table, a record magazine shiftable vertically relative to the turn table to position records in the magazine for transference to said turn table, means for effecting said transference of the records, means for effecting said shifting of the magazine including a clutch for controlling the operation of said magazine-moving means, and means for selecting the record to be transferred from the magazine to the turn table, said means comprising a plurality of selector members respectively related to a record in the magazine, said members being movable from normal, inoperative position to operative position, a rotating arm operatively connected to said magazine-moving means, a movable element carried by said rotating arm and adapted to engage one of said selector members when adjusted to operative position and to be thereby moved, means connecting said movable element with said clutch for disengaging the latter to stop movement of said magazine with the selected record in position for transference from said magazine to said turn table, and means carried by said arm for restoring said selector member to inoperative position.

2,161,484
DOUBLE BEARING RAIL ANTICREEPER

Frederick A. Preston, Lake Forest, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

Application June 16, 1938, Serial No. 213,970
14 Claims. (Cl. 238—327)

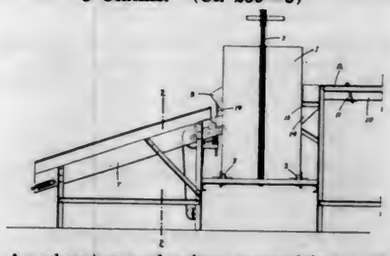


1. A rail anti-creeper comprising a member provided with upper and lower jaws for gripping the base flange of a rail and having a body portion formed to extend beneath the rail base; the said body being formed with a portion for abutting engagement with the side face of an adjacent cross-tie and a portion for engagement with a tie plate supported on said cross-tie; and the said jaws being formed with rail gripping portions, the effective widths of which for exerting a lever grip on the top and bottom surfaces of the rail base are less than the width of the said body.

2,161,485
ELEVATOR AND MIXER

Romolo L. Puccinelli, Turlock, Calif.

Application October 5, 1937, Serial No. 167,394
5 Claims. (Cl. 259—3)

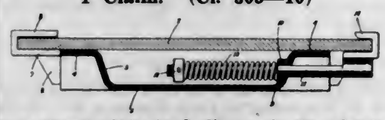


1. An elevator and mixer comprising a drum open at one end and disposed with its axis horizontal and adapted to receive produce to be mixed and elevated, mixing and elevating means in the drum, a tray projecting lengthwise into the drum through said open end whereby to receive produce as elevated and discharged from the elevating means at the top of the drum, a deflector plate extending lengthwise of the drum with its lower edge to one side of the tray, and projecting thence above the tray, means pivoting the plate along its lower edge for swinging movement whereby the plate may be swung to overhang the tray varying amounts, and means to control the swinging of the plate.

2,161,486
STREET PLATE FOR TRACTORS

Ernest H. Rider, Stockton, Calif.

Application December 4, 1937, Serial No. 178,084
1 Claim. (Cl. 305—10)

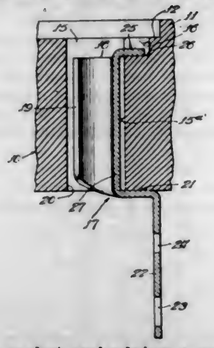


In a street plate including a body adapted to rest on a track plate, a hook extending from one side of the body for removable engagement with one side edge of the track plate, another hook adapted to removably engage the other side edge of the track plate, means on the body mounting said other hook for outward lateral movement, and a spring arranged to cooperate with said means and yieldably resist such movement; the length of the overhanging side of said first named hook being greater than the possible contractive movement of the spring beyond the setting thereof when the other hook is engaged with the track plate whereby lateral drag on the body away from said other hook cannot effect accidental release of said first named hook from said track plate.

2,161,487
RADIO SOCKET

Arthur J. Schmitt, Chicago, Ill.

Application March 19, 1938, Serial No. 196,891
1 Claim. (Cl. 173—328)

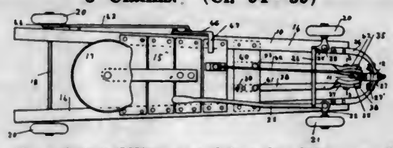


In a radio socket embodying a molded insulating body of cylindrical formation having an annular series of parallel bore-like openings passing axially therethrough, the combination wherein each opening has a prong receiving portion open at the upper end of the body and has a slot substantially narrower in diameter than the said prong receiving portion extending laterally therefrom in a direction inclined at approximately a forty-five degree angle with respect to a radius of the body passing through the center of the prong receiving portion, each slot extending to one side only and to the same side of its respective radius as every other said slot looking outwardly of the socket along said radius, and wherein a one-piece sheet metal contact member having a split sleeve portion is received in said prong receiving portion of each opening, said contact member being bent to form a shoulder thereon intermediately of the length thereof for engaging the lower end of the body to prevent upward withdrawal of the member from the body and said member having a laterally extended portion received in said slot, there being a shoulder in the slot spaced intermedially of the upper and lower end of the body engaging the laterally extended portion of the member to prevent downward displacement of the member in the body.

2,161,488
JOINT FILLING MACHINE FOR BITUMEN FILLER

Amasa E. Stewart, Utica, N. Y.

Application November 23, 1937, Serial No. 176,107
3 Claims. (Cl. 94—39)



1. In a joint filling machine for bitumen filler, the combination of a low-down wheeled carriage having steering wheels near its forward end manually controlled relative to the carriage by an operator on the carriage, a nozzle rigidly mounted near the forward end of the carriage and adapted to direct a bitumen filler downwardly upon a joint in the pavement below the carriage, connections including a manually controlled valve leading from the nozzle to a source of supply of bitumen, means operable by a person on the carriage to regulate said valve, fabric-reinforced, elastic composition shoe-guards of the stiffness and durability of the shoe or casing of automobile tires, spaced apart the desired width of the strip of bitumen filler and on the opposite sides of the nozzle outlet and allowing the strip of filler over the joint and for some distance laterally thereof to pass rearwardly between the opening at the rear ends of said shoe-guards without being engaged by said shoes and two separate, resilient horizontally arranged supports mounted at their rear ends about a third of the way back on said carriage and extending forward to the line of said nozzle and there carrying respectively one of said shoe-guards and resiliently pressing them strongly enough against the pavement to prevent the filler from spreading laterally across the pavement beneath said shoes.

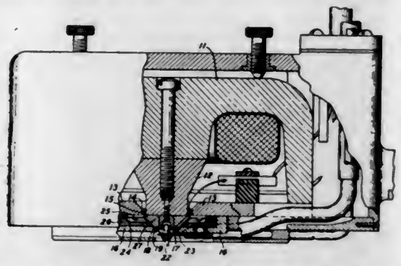
2,161,489
VIBRATORY SYSTEM

Leonard Vieth, Jackson Heights, Charles F. Wiebusch, New York, and George R. Yenzer, Hollis, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 7, 1937, Serial No. 167,708
9 Claims. (Cl. 179—100.41)

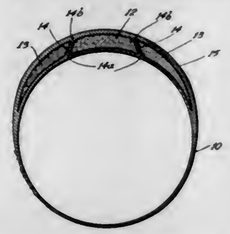
1. In a recording device, a magnetic circuit having a central pole-piece and two spaced annular pole-pieces forming air-gaps, a vibratory system comprising driving and driven coils disposed in the gaps, a stylus, a rigid member con-

necting the coils to the stylus and a resilient support for the member, and stationary means be-



tween the pole-pieces for shielding the driven coil from the field of the driving coil.

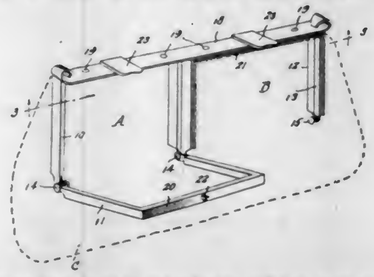
2,161,490
INNER TUBE
James W. Waber, Chicago, Ill.
Application November 1, 1937, Serial No. 172,095
5 Claims. (Cl. 154—15)



1. The method of constructing an inner tube for pneumatic tires, which consists in expanding a basic endless tube of vulcanizable material by internal pressure, superimposing upon the tread portion of said tube while so expanded alternate strips of unvulcanizable sealing compound and separator strips of vulcanizable material, the inner edges of said separator strips engaging said endless tube and the outer edges of said separator strips extending to the outer surface of said strips of sealing compound, said strips of sealing compound and said separator strips being arranged longitudinally of said endless tube and in contact with each other, placing a cover sheet of vulcanizable material over said sealing compound and said separator strips, and curing the whole tube structure while expanded in a mold to cause the vulcanizable cover sheet to become vulcanized to the basic tube at its edges and causing the separator strips to become vulcanized to said endless tube at their inner edges and to the cover sheet at their outer edges.

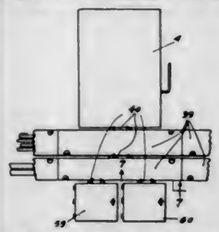
2,161,491
FRAME STRUCTURE FOR LADIES' HANDBAGS
Benjamin Wachs, Brooklyn, and David H. Colin, New York, N. Y.
Application May 27, 1938, Serial No. 210,448
2 Claims. (Cl. 150—29)

1. A frame for a lady's hand bag including a plurality of pairs of substantially U-shaped jaws, means pivotally connecting together the jaws of each pair for relative swinging movement of one jaw of each pair with reference to the other jaw and independently of the jaws of the other pair, and a connecting bar rigidly secured to and extending throughout the lengths of the bight portions of one jaw of each of said pairs



so as to couple said connected jaws in side by side relation.

2,161,492
MEANS FOR BANK SWITCH INSTALLATIONS
David T. Wadsworth, Cold Springs, Ky., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky., a corporation of Kentucky
Application August 21, 1928, Serial No. 300,995
14 Claims. (Cl. 220—3.2)

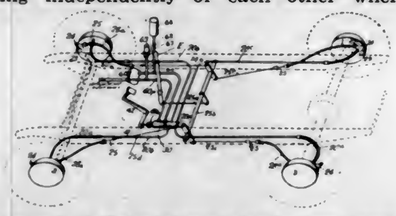


1. In combination an electric service box provided in its bottom wall with a central knockout and knockouts of reduced size on opposite sides thereof, a wiring channel member comprising a U-shaped member having a boss adapted to be disposed beneath the knockouts in the electric service box, the boss having a central perforation corresponding with the larger knockout of the electric service box and threaded perforations coinciding with the smaller knockouts in the electric service box, and screws adapted to be inserted through the said knockouts and into the threaded perforations in the box for coupling the electric service box and the wiring channel element.

2,161,493
BRAKING SYSTEM FOR MOTOR VEHICLES
John Eugene Wallace, Foxboro, Mass.
Application June 27, 1936, Serial No. 87,752
13 Claims. (Cl. 188—106)

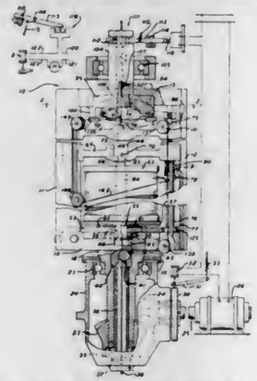
11. A braking system comprising axles supported by wheels, a chassis supported by the axles, brake drums attached to all of the wheels, brake housings attached to the axles, brake shoes attached to the housings, a fluid pressure creating means carried on the chassis, cylinders having therein pistons adapted for motivation by fluid pressure to impel the brake shoes into braking contact with all the brake drums, branch line pipes communicating from the fluid pressure creating means to the cylinders, an emergency brake lever carried by the chassis, mechanical means having a movement limiting means adapted for motivation by the emergency brake lever to impel the brake shoes to the extreme

permissible wear of the brake linings compatible with safety and not further into contact with all the brake drums under all conditions from no wear to full permissible wear without adjustments, the mechanical means and the pistons acting independently of each other whereby



movement of the emergency brake lever provides a measure of the brake shoe wear within permissible limits and not further caused by the fluid pressure creating means motivating the pistons, whereby faulty brakes can be anticipated and prevented.

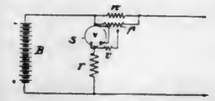
2,161,494
STRAND HANDLING APPARATUS
Leo L. Weaver, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 8, 1938, Serial No. 183,945
23 Claims. (Cl. 57—58)



1. In a strand handling apparatus, a rotary unit, means for rotating the unit, a reel support rotatably disposed in the unit, means for locking the reel support in the unit, and means rendered effective by the movement of the locking means to unlock the reel support for rendering ineffective the rotating means.

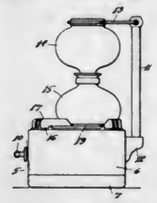
2,161,495
METHOD OF AND SYSTEM FOR MEASURING THE STATE OF CHARGE OR DISCHARGE OF SECONDARY BATTERIES
Erich Witte, Hagen, Germany, assignor to Accumulatoren-Fabrik Aktiengesellschaft, Berlin, Germany, a joint stock company of Germany
Application October 30, 1936, Serial No. 108,477
In Germany October 31, 1935
2 Claims. (Cl. 175—183)

1. The herein described system for measuring the state of charge and discharge of an electric storage battery, that includes, in combination with the battery and its charging and discharging circuit, a measuring circuit connected to the terminals of the battery and including, arranged in series, a voltmeter and a resistance, and a circuit adapted to make compensation in the measuring circuit for variations in the apparent internal resistance of the battery, which compensating circuit includes a diverting resistance arranged in series with the charging and discharging circuit and a resistance that together with



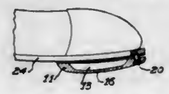
the voltmeter is arranged in shunt with said diverting resistance; the improvement herein described which consists in an auxiliary resistance within the compensating circuit bridging the leads to and from the diverting resistance, and a movable contact that brings a larger or smaller portion of said auxiliary resistance into circuit with the resistance associated with the diverting resistance in said compensating circuit.

2,161,496
STOVE AND GRATE THEREFOR
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application January 2, 1937, Serial No. 118,700
10 Claims. (Cl. 126—214)



2. In combination with a stove of the character described comprising a housing having a burner mounted therein; a grate mounted on said housing and comprising a frame, supporting ribs on said frame, means in said supporting ribs for positioning a utensil thereon above said burner and against lateral displacement, an upright member, and a retaining member mounted upon said upright member and adapted to engage the upper portion of said utensil to prevent tipping thereof upon said grate.

2,161,497
TAP
Olen H. Yates, Detroit, Mich.
Application July 29, 1938, Serial No. 222,002
5 Claims. (Cl. 36—8.3)



2. In combination with a shoe, a tap for dancing comprising a dishlike cast metal member, the body of which is thicker in the middle section and tapers into thin marginal edges and an overlying thin metal cover of corresponding form, the two members when attached to the shoe being held firmly together at one end and loosely at the opposite end, said component members being adapted to be clashingly brought together when the tap is brought into contact with the dance floor.

2,161,498
GUNSTOCK
Craston C. Anderson, West Palm Beach, Fla.
Application July 6, 1938, Serial No. 217,790
3 Claims. (Cl. 42—71)



1. In a shoulder arm of the type described, a unitary stock therefor having a lateral curvature to the left with respect to the axis of the barrel, said stock having a greater lateral curvature at the heel of the butt than at the toe thereof to effect a twist in the stock.

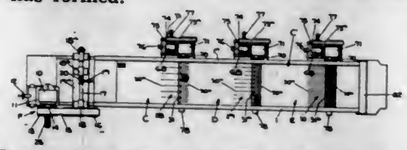
2,161,499
CLOTHESLINE FASTENING DEVICE
Ethel P. Ashcroft, Colorado Springs, Colo., assignor of one-eighth to Henry T. McGarry, one-fortieth to Ruth M. Burns, and one-fourth to Lucile Dee Latting, all of Colorado Springs, Colo.
Application June 3, 1938, Serial No. 211,646
1 Claim. (Cl. 24—137)



In a fastening device, a length of wire coiled between the ends thereof to form a pair of resilient arms, one of said arms formed with a flattened section between the ends thereof and terminating in a finger-piece at the free end thereof, the other of said arms fashioned with a resilient loop at the free end thereof, a ball-like member fashioned with a circumferentially extending recess receiving said loop and provided with a segmented face having a contour corresponding to the contour of said flattened section and cooperating with said flattened section to clamp therebetween the folded sides of an article interposed between said arms and suspended from a line extending between said arms.

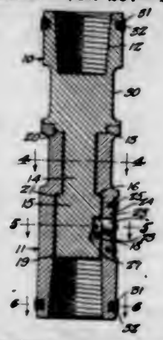
2,161,500
PROCESS AND APPARATUS FOR TREATMENT OF MINERAL MATERIALS
Byron M. Bird, Columbus, and Mack E. Haworth, Arlington, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Application January 2, 1935, Serial No. 66
Renewed October 13, 1937
5 Claims. (Cl. 209—466)

2. The method of treating raw coal containing foreign materials, ranging in size from relatively fine to relatively coarse particles, to effect a separation of the coal and foreign materials which comprises forming the raw coal in a bed, agitating said bed by mechanical agitation insufficient to make the bed mobile, supplying upwardly directed air current thereto in such quantity as to make the bed just mobile throughout its depth and to support only the fine particles of coal, accumulating the foreign materials in an immobile bed over which passes the mobile bed of coal, and withdrawing the foreign materials as fast as they accumulate after a predetermined bed thereof has formed.



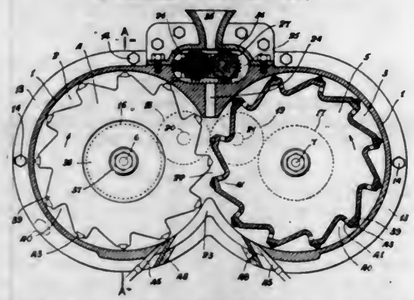
5. Apparatus for separating refuse from coal comprising a stationary frame, a reciprocating deck carried on said frame, a pervious bottom on said deck, longitudinally spaced transversely extending refuse draws in the bottom of said deck dividing the deck into a plurality of sections, a source of air for said deck, means for individually controlling a flow of air through different areas of each section of the deck, said means including operating means whereby it is readily operable while the deck is in operation, the deck bottom being of irregular contour longitudinally to provide refuse pockets near the end of each deck section and above each refuse draw, the said contour being formed of continuous smooth curves which change in slope only gradually and are entirely devoid of transversely extending upright projections, thereby preventing recirculation of any portion of the bed of material thereon, and means for reciprocating said deck.

2,161,501
COUPLING
John O. Blackmon, Oilfields, Calif.
Application June 29, 1937, Serial No. 151,004
1 Claim. (Cl. 287—103)



A coupling structure, comprising male and female sections, said male section having a head, said female section having a bore for the reception of said head and provided with head engaging shoulders coacting with said head in one position to prevent relative longitudinal movement therebetween and in another position to permit withdrawal of said head, and a latch for locking said head and comprising a normally appressed diaphragmatic plate having ends slidably anchored to said female section and having a bolt normally engaging said head to prevent accidental rotation thereof relative to said female section, said bolt movable upon positive rotation of said head to belly said plate in a manner whereby said bolt is disengaged from said head to permit said head to be withdrawn from said bore.

2,161,502
FIBER FINISHING MACHINE
William Thomas Brown, Northland, Wellington, New Zealand, assignor to Fibre Processing Limited, Wellington, New Zealand, a corporation of New Zealand
Application April 14, 1937, Serial No. 136,941
In New Zealand May 18, 1936
1 Claim. (Cl. 19—33)



A machine for finishing fiber after it has been stripped from fiber bearing plants comprising a casing, feed rollers in the top of the casing, a guide below the feed rollers containing a feed opening, a pair of drums horizontally mounted in the casing to rotate in different directions and at greater peripheral speed than the feed rollers, said drums being hollow and open at one end the circumferential periphery of each drum provided with a plurality of longitudinal grooves parallel with the axes thereof, a plurality of beater bars detachably mounted in the grooves and each having rounded beater surfaces, the spaces on the drums between the grooves being intended to form pockets, the pockets being triangular in shape each including a sloping side extending in the direction of rotation and the radial side having an opening for receiving air into the pockets to avoid the formation of a vacuum therein and the beater bars on the one drum projecting into the pockets on the opposing drum such that as they sweep past the fiber on each side thereof they force it into the pockets between the beater bars on opposite drums so as to cause a number of bends in every length of fiber passing between the drums.

2,161,503
STAINS AND RELATED COMPOSITIONS
Edward R. Bush, Lemont, Ill., assignor to Chadeloid Chemical Company, New York, N. Y., a corporation of West Virginia
No Drawing. Original application December 20, 1932, Serial No. 648,137. Divided and this application October 11, 1934, Serial No. 747,988
5 Claims. (Cl. 134—48)

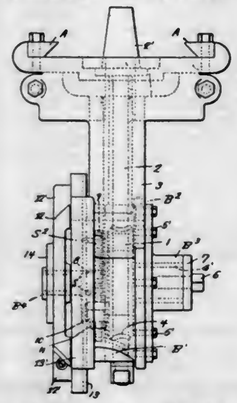
1. A wood stain containing a water-soluble aniline dye in solution in a penetrant vehicle containing a high boiling organic solvent and a low boiling organic component, the ingredients being present in proportions to yield a wood stain of light fast, non-fading, non-grain raising properties not bleeding into lacquer and varnish topcoats, said wood stain containing a cellulose derivative in amount sufficient to check the penetration of said stain to a limited extent without preventing some penetration, the amount of cellulose derivative being insufficient to produce a lacquer coating of body to constitute a protective coating in and of itself.

3. A combination wood stain and filler comprising a water-soluble aniline dye, a volatile organic solvent therefor, a rapidly volatilizing organic dye-non-solvent component, a wood filler ingredient, a resin, and a lactate ester as a lubricity agent.

2,161,504
MATERIAL FOR AND METHOD OF CLEANING LEATHER
Clinton London Campbell, Noroton Heights, Conn., assignor to The Viscol Company, Stamford, Conn., a corporation of Connecticut
No Drawing. Application March 10, 1938, Serial No. 195,194
4 Claims. (Cl. 149—28)

1. The method of cleaning suede leather which comprises subjecting it to the action of a loose mass of small bits of soft, resilient, material consisting essentially of vulcanized oils, said bits having a surface to which particles of dust or the like will adhere.

2,161,505
RADIAL DRAFT MILLING APPARATUS
Albert A. Davis, Alliance, Ohio, assignor of one-half to Carl E. Beltz, Limaville, Ohio
Application March 5, 1938, Serial No. 194,202
10 Claims. (Cl. 90—15)



1. An attachment for milling machines including an arbor; a casting, an arbor attachable shaft in the casting, a worm on the shaft, a worm gear mounted in the casting and meshing with the first-mentioned worm, a slide on one side of the second-mentioned gear, a second and third slide operative at right angles to each other, and means on the last-mentioned slide for supporting a milling attachment.

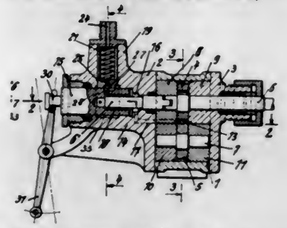
2,161,506
LEATHER JEWELRY
Ray K. de Caracena, Bronx, N. Y.
Application March 24, 1939, Serial No. 263,844
10 Claims. (Cl. 63—26)



1. An article of jewelry comprising a sheet of leather, a layer of cellulosic material, an annular piece of leather having a central opening, said

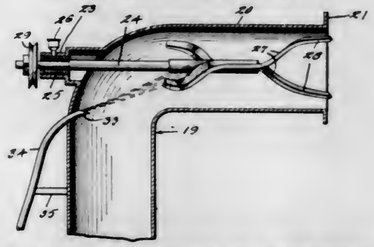
pieces of leather being permeated with the cellulosic material and bonded to the layer of cellulosic material, said pieces of leather and cellulosic material forming a rigid leather structure with the pieces of leather on the outside, a gem mounted in the central opening of the annular piece of leather, and a mounting member anchored in the leather structure.

2,161,507
FUEL FEEDING DEVICE FOR INTERNAL COMBUSTION ENGINES
Fritz Egersdörfer, Berlin, Germany
Application September 4, 1937, Serial No. 162,430
In Germany September 26, 1932
2 Claims. (Cl. 137—153)



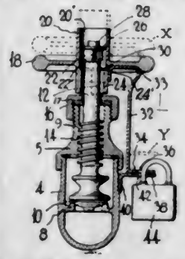
1. In a fuel-feeding device for internal-combustion engines, fuel-distributing means including a cylindrical valve chest, a valve in the form of a cylindrical shell rotatable within and longitudinally adjustable within the valve chest, the valve chest being ported with a plurality of elongated slots arranged in circumferential succession, a single elongated slot, the slot in the valve being angularly disposed with relation to the slots in the chest, whereby as the valve rotates the area of coincidence of the two cooperating slots advances longitudinally of the slots, and means for shifting the valve longitudinally within the valve chest.

2,161,508
MOLASSES FEED MIXER
Claude W. Ensor, Sparks, and Peter Lewis Bubb, Parkton, Md.
Application August 12, 1938, Serial No. 224,582
3 Claims. (Cl. 259—9)



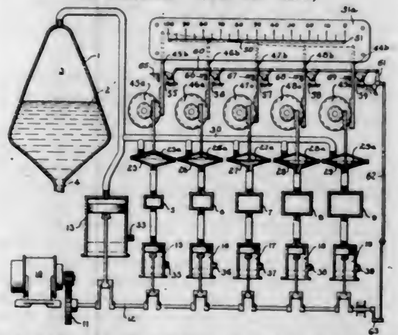
1. In a mixing structure for interposition between and for communication with a conducting means leading from a grinder and a blower and a conducting means leading to a collector, said structure comprising an upstanding tubular element of angular contour formed of a vertically disposed lower leg adapted for communication at its lower end with the conducting means leading from the grinder and the blower and a horizontally disposed upper leg opening at its rear end into the upper end of the vertical leg and adapted to have its forward end communicate with the conducting means leading to the collector, a horizontal shaft revolubly supported by and extending into said upper leg, a plurality of blades within said upper legs connected intermediate their ends to, disposed lengthwise of and bodily revolving with said shaft and each including a forward and a rear mixer, and a fluid discharge nozzle extending into said element at the point of mergence of said legs and being so disposed for directing the fluid upon said shaft and blades rearwardly of the forward mixers.

2,161,509
VALVE LOCK
Samuel Farber, Newport, Ky.
Application February 16, 1938, Serial No. 190,863
7 Claims. (Cl. 70—180)



2. A valve, including a casing, an operating stem, and a handle for rotating said stem to operate said valve, said handle being axially slidable along said stem between two positions, said handle, in the first of said positions being in engagement with said stem so as to turn therewith, and in the second of said positions being rotatable independently of said stem, and means for locking said handle to said casing in the second of said positions.

2,161,510
APPARATUS FOR MEASURING THE LIQUID CONTENTS OF A CONTAINER OR VESSEL
Eduard Fischel, Berlin-Charlottenburg, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application June 17, 1937, Serial No. 148,787
In Germany June 3, 1936
12 Claims. (Cl. 73—290)



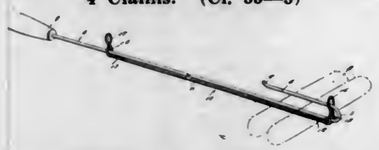
1. A system for measuring the liquid level in a closed container, which comprises a compressor adapted to supply a measured quantity of a compressible fluid to said container, means to compress further quantities of said compressible fluid

to produce thereby a graduated set of standard pressures, a set of differential manometers connected to receive said graduated pressures and to compare the same with the pressure within said container, and means associated with said manometers to indicate the pressure differentials obtaining therein.

2,161,511
PRODUCTION OF SURROGATES AND ADDITIONS FOR COFFEE
Eligius Freudl, Tetschen, Czechoslovakia, assignor to Coffarom Aktiengesellschaft, Glarus, Switzerland
No Drawing. Application January 12, 1938, Serial No. 184,697. In Czechoslovakia January 23, 1937
8 Claims. (Cl. 99—74)

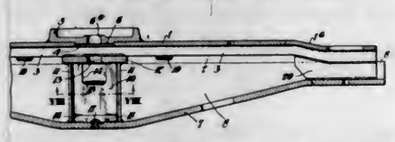
1. In a process of treating raw material containing inulin, such as bulbs of topinamber and dahlia, and roots of chicory and viper's grass, the steps comprising hydrolizing the inulin by heating the raw material in the presence of moisture, and converting the hydrolized inulin to melanoidin or caramel by continuing the heating.

2,161,512
HOLDER FOR FRANKFURTERS
Albert Sidney Haislip, Fredericksburg, Va.
Application November 18, 1937, Serial No. 175,331
Renewed April 28, 1939
4 Claims. (Cl. 53—5)



1. An implement of the class described comprising a handle, a reach rod attached to and extending from said handle and terminating in a longitudinally elongated hook, an ejecting finger slidably mounted on the shank of the hook and adjacent portion of the reach rod, an operating wire for said ejector, said wire being disposed in parallelism with said reach rod, and a finger grip on the inner end of said wire slidably mounted on the reach rod.

2,161,513
CAR TRUCK BOLSTER
Karl R. Hammerstrom, Dormont, Pa., assignor to The Railroad Research Bureau of the Manufacturing Companies of the United States Steel Corporation
Application January 21, 1938, Serial No. 186,219
6 Claims. (Cl. 105—226)



4. A car truck bolster of the box girder type having its top formed from a rolled channel section integrally providing parallel ribs or secondary flanges extending longitudinally of the section from the web thereof in parallel spaced relation respecting the flanges of the latter said web being solid opposite said ribs or secondary flanges.

2,161,514
STUDIO COUCH
Joseph Martin, Laurelton, N. Y., assignor to United States Cabinet Bed Co., Brooklyn, N. Y., a corporation of New York
Application December 18, 1934, Serial No. 758,015
15 Claims. (Cl. 5—18)



1. The combination with an outer metal bed frame constituting a movable bed section having straight vertically extending end wall portions terminating in vertically extending rounded corner wall portions, of a metal frame constituting a stationary bed section in single bed formation, said inner frame having a straight rear wall shorter than the rear wall of said movable bed section, two straight end walls shorter than the end walls of said movable bed section, a straight front wall parallel to but shorter than the rear wall of said stationary bed section, and inclined wall portions extending from the end walls to the front wall of said stationary bed section and clearing the rounded wall portions of said movable bed section in single bed formation, upwardly extending abutments on the front wall of said stationary bed section adjacent to and inwardly of said inclined wall portions, and downwardly extending abutments on the rear wall of said movable bed section spaced from its end walls to aline with the abutments of said stationary bed section to cooperate with one another to define the position of said bed sections in fully extended double bed formation.

2,161,515
MANUFACTURE OF ALKALI METASILICATES AND ALKALI METASILICATE-CONTAINING COMPOSITIONS
Max Jaeger and Franz Besemann, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
No Drawing. Application January 13, 1933, Serial No. 651,620. In Germany January 20, 1932
5 Claims. (Cl. 23—110)

1. A process which comprises heating quartz sand with a quantity of caustic potassium lye of commercial concentration in an excess of several percent of that theoretically required for the formation of the metasilicate to boiling temperatures while agitating the reaction mass, until a temperature of about 190° C. is attained, and then maintaining a temperature between about 190° C. and about 200° C., until crystallisation of the mass is completed.

2,161,516
ATTACHMENT FOR COLLAPSIBLE TUBES
Albert H. Jung, Flushing, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application December 21, 1938, Serial No. 247,118
7 Claims. (Cl. 221—60)

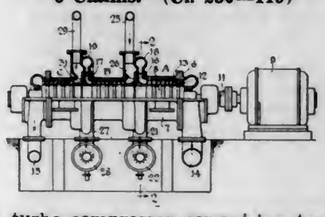
1. A collapsible tube end take up attachment comprising a generally cylindrically formed plastic having a section including a relatively large exterior circle and an eccentrically arranged smaller interior circle and an opening at the place where the interior circle is closest to the exterior circle, whereby the attachment has the

necessary spring to securely hold the end of a collapsible tube and lends itself to ready and neat



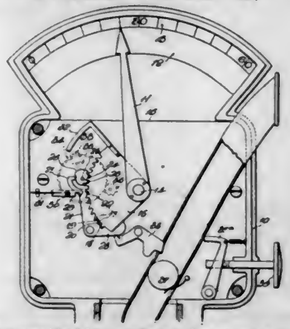
engagement with that portion of the tube which is empty.

2,161,517
AXIAL FLOW TURBO COMPRESSOR
Curt Keller, Zurich, Switzerland, assignor to Escher Wyss Machinenfabriken Aktiengesellschaft, Zurich, Switzerland, a corporation of Switzerland
Application September 21, 1937, Serial No. 164,954
In Switzerland October 26, 1936
6 Claims. (Cl. 230—119)



1. A turbo-compressor comprising two groups of axial flow stages; an intercooler for cooling compressed working medium; a radial flow wheel coaxial with said turbo-compressor betweeen said groups and arranged to receive working medium compressed in the first group and deliver it with change of direction to said intercooler with performance of work approximately to the extent necessary for deflection; and a connection for conducting working medium from the intercooler to said second group.

2,161,518
PARKING METER
Charlie Klemt, San Antonio, Tex.
Application May 17, 1937, Serial No. 143,227
8 Claims. (Cl. 161—15)



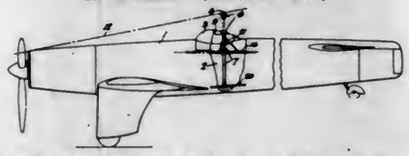
5. In a resettable register having a numbered scale and a coacting pointer, one of which is advanceable with respect to the other from a zero position, and operating means for alternately advancing and freeing the advanceable member; releasable means for holding said advanceable member against return from its successive indicating positions, manually operable means for releasing said holding means when said advanceable member is to be returned to said zero position, means for restraining said holding means against return from its released state during return of said advanceable member to said zero position, and automatically operable means operable when said advanceable member reaches said zero position for releasing said restraining means.

2,161,519
LOCK
Grady A. Loftin and Laurence K. Loftin, Altavista, Va., assignors to The Lane Company, Inc., Altavista, Va., a corporation of Virginia
Original application July 26, 1935, Serial No. 33,365. Divided and this application May 18, 1937, Serial No. 143,364
7 Claims. (Cl. 292—127)



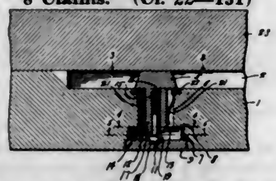
1. In a lock having a casing with an opening therein and a keeper member having a latch engaging roller adapted to penetrate said casing through said opening, the combination of a roller engageable latch member comprising an arm pivotally mounted intermediate the ends thereof within said casing, said latch member having a hook portion on one end thereof adapted to swing in an arc intersecting the path of the roller of said keeper in said casing for engaging said roller to latch the same against withdrawal from the casing, the end of said arm on the other side of said pivot, constituting a lever arm, means extending through the wall of said casing for engaging said lever arm to move said hook from latching position, the pivot point of said latch arm being disposed in the line of tension between said hook and keeper and offset from the longitudinal axis of said arm to dispose the latter at an acute angle to the line of tension between hook and keeper when in latching position, whereby the point of the roller engaging hook of said latch member is disposed with the point thereof closer to the pivot than the throat thereof when the parts are in latching position to effect further engagement of said roller with said latch when the parts are under tension due to a retracting force on said keeper.

2,161,520
SAFETY DEVICE FOR AIRPLANES
James Martin, Higher Denham, near Uxbridge, England
Application December 4, 1936, Serial No. 114,159
In Great Britain December 11, 1935
12 Claims. (Cl. 244—100)



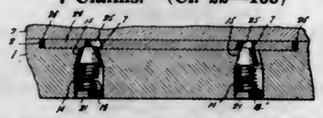
11. In an airplane, a fuselage having a crash protector comprising a member movable vertically to project above the top of the fuselage and capable of supporting the weight of the airplane when the airplane inverts and rests upon said member.

2,161,521
MOLD AND CORE STRUCTURE
Henry E. McWane, Lynchburg, Va.
Application October 16, 1934, Serial No. 748,540
Renewed January 11, 1939
8 Claims. (Cl. 22—151)



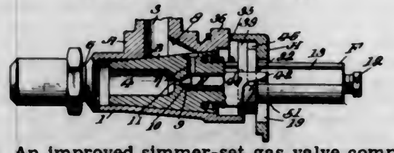
1. A casting apparatus comprising a mold having a cavity therein, a core positioned against one wall of the mold cavity and capable of movement in all directions of a single plane, and means to return the core to its initial position.

2,161,522
CONSTRUCTION OF MOLDS
Henry E. McWane, Lynchburg, Va.
Application October 12, 1934, Serial No. 748,124
Renewed December 11, 1937
7 Claims. (Cl. 22—165)



1. In a casting mold, a tapered channel extending into the mold cavity, a core having an angle of taper corresponding to that of the channel, said core slidable in the tapered channel and adapted to extend into the mold cavity, and means to normally maintain the core in extended position but permitting its recession into the channel upon displacement of the core in the casting formed by the mold.

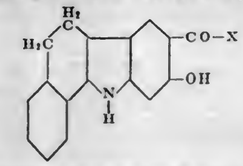
2,161,523
GAS COCK OR VALVE
Henry Moecker, Jr., William Lotter, and Axel Scholander, Cleveland, Ohio, and Isaac Vernon Brumbaugh, St. Louis, Mo., assignors to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application February 3, 1938, Serial No. 188,548
6 Claims. (Cl. 277—56)



1. An improved simmer-set gas valve comprising a housing having a longitudinally disposed gas outlet therein and also a gas inlet, a rotatable longitudinally disposed plug within said housing the plug having its inner end provided with a main gas passageway which has its inner end communicating with said housing outlet and its opposite end placed in and out of communication with said housing inlet by oscillating the plug, said plug having a transverse simmer-set gas passageway therein at an angle to said housing outlet and its inner end in communication with said housing outlet, said plug having its outer end extending beyond said housing and carrying a handle and the plug carrying a longitudinal adjustable member controlling said simmer-set passageway.

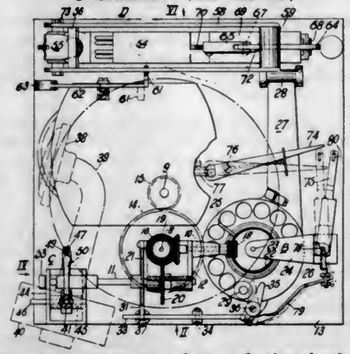
2,161,524
DIHYDROBENZOCARBAZOLE COMPOUNDS
Heinrich Morschel, Cologne-Deutz, and Otto Goll, Leverkusen-I. G. Werk, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application February 13, 1933, Serial No. 656,623. In Germany February 18, 1932
6 Claims. (Cl. 260—315)

1. The compounds of the general formula:



wherein X stands for the radical of a non-sulfonated and non-carboxylated arylamine, being generally yellowish substances, insoluble in water, soluble in dilute aqueous alkalies and in organic solvents, and being valuable intermediate products in the manufacture of dyestuffs.

2,161,525
AUTOMATIC BURGLAR, FIRE, OR LIKE ALARM
Edred Rabjohn Mountstephen, Southend-on-Sea, England
Application November 2, 1937, Serial No. 172,461
In Great Britain November 4, 1936
5 Claims. (Cl. 179—5)



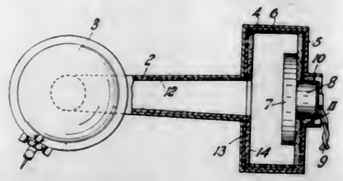
1. In an automatic alarm device including a gramophone having a record carrying turntable and a driving shaft therefor, said gramophone further having a sound box supported for movement into and out of engagement with a record on said table, the combination with means to effect raising and lowering of the sound box, means to swing said sound box across said table, a signal transmitting device including a dial, a shaft driven from said turntable shaft, and a plurality of gearings transmitting movement from said driven shaft to the sound box controlling mechanism and the dialing mechanism.

2,161,526

AUTOMATIC BURGLAR AND FIRE ALARM

Edred Rabjohn Mountstephen, Southend-on-Sea, England

Application November 2, 1937, Serial No. 172,462
In Great Britain November 4, 1936
2 Claims. (Cl. 179—5)



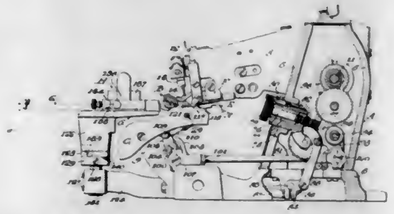
1. In an automatic burglar or fire alarm of the kind described comprising a gramophone operatively connected with a telephone line, an arrangement wherein the telephone transmitter or microphone is enclosed in a housing or casing interconnected with the tone arm of the gramophone and at least one layer of sound insulating and damping materal is located between the tone arm and the interconnecting housing or casing and between the transmitter or microphone and the interconnecting housing or casing.

2,161,527

BLIND STITCH SEWING MACHINE

Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine

Application June 19, 1937, Serial No. 149,258
17 Claims. (Cl. 112—178)



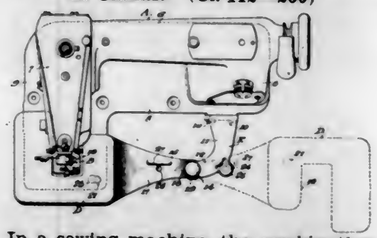
1. In a blind stitch sewing machine, the combination with a main frame including a base and a forwardly extending arm disposed in a plane above the base, of a main shaft journaled in the frame, a presser foot fixed to the front end of the arm and provided with an opening, a stitch forming mechanism mounted on the arm and including a needle mounted for reciprocations above the foot and across the opening therein, a horizontal work support mounted on the base to swing upwardly and downwardly relative to the foot and about a horizontal axis located in front of the needle, means for normally retaining the work support yieldably against depression, a reciprocatory ridge forming element operating in the presser foot opening for projecting a ridge of fabric upwardly into needle penetrating position and movable upwardly and downwardly with said work support, an oscillatory shaft journaled on the work support and disposed in parallelism with the axis thereof and operatively connected to said element, and driving connections between the main and oscillatory shafts for operating the latter and including devices for retaining the oscillatory shaft against angular movement upon depression of the work support.

2,161,528

WORK SUPPORT FOR SEWING MACHINES

Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine

Application December 31, 1936, Serial No. 118,657
10 Claims. (Cl. 112—260)



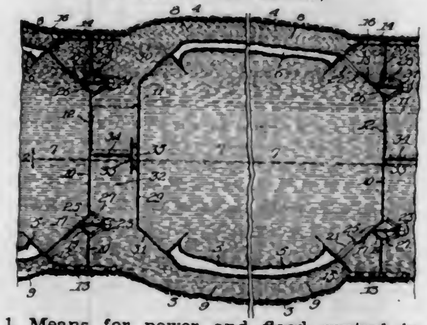
1. In a sewing machine, the combination with a frame including a standard, an upper arm extending laterally from the upper end thereof, and a base arm extending laterally from the lower end of the standard and terminating below the free end of the upper arm, of a horizontal presser foot attached to the free end of the upper arm, a post supported on the free end of the base arm directly below the presser foot, a single piece work support recessed for normally embracing the post, and means for mounting the work support on the frame for swingable movements about a vertical axis from an operative position in which it embraces the post to an inoperative position completely removed from the post.

2,161,529

MEANS FOR POWER, NAVIGATION, AND FLOOD CONTROL

Wilbur F. Powers, La Grange, Ill.

Application June 17, 1937, Serial No. 148,814
4 Claims. (Cl. 61—19)



1. Means for power and flood control in a river, comprising: a series of dams across a river at suitable intervals to form reservoirs, said reservoirs having their upstream portions dredged to increase their storage capacities; longitudinally extending levees between said dams forming at least one side wall for said reservoirs and providing a navigation channel between the reservoirs and river bank; locks connecting said navigation channels; and control gates for discharging water from one reservoir to the next succeeding reservoir at the flood-flow rate of said river.

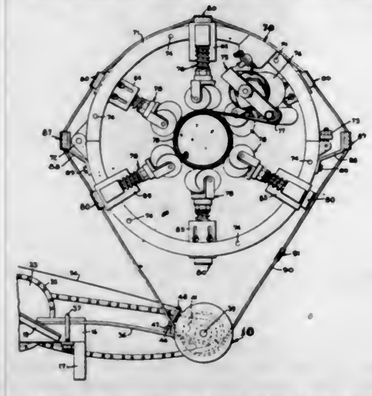
2,161,530

PIPE WRAPPING MACHINE

Willard C. Robinette, Pasadena, Calif.

Application November 5, 1937, Serial No. 172,958
3 Claims. (Cl. 242—11)

1. The combination with a pipe wrapping machine including a frame, a reel support on said frame, means on the frame adapted to rotatably engage a pipe and belt engaging means on said frame, of a power drive device, said power drive device including a base, a prime mover mounted



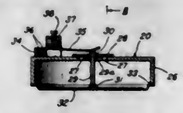
on said base, a pulley on said base and driven by said prime mover and a flexible member engaging said belt engaging means and said pulley to support said pulley and the base, said flexible member being effective to drive said frame about the pipe.

2,161,531

RELIEF VALVE

Gregory V. Rylsky, New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 28, 1936, Serial No. 117,984
7 Claims. (Cl. 137—153)



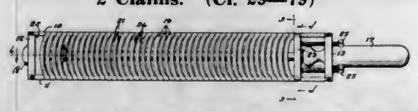
1. In a pressure regulating device adapted to be inserted between a source of pressure and aircraft instruments, a cylindrical shell closed at one end, an opening in said end, a disc closing said opening, an imperforate flexible diaphragm brazed to said shell and comprising the sole means for sealing the other end of said shell, said disc being arranged for actuation by said diaphragm, resilient means urging said disc in one direction, and conduit means for said shell providing an inlet and an outlet to said shell for the pressure to be regulated, said conduit means carrying at their ends, coupling means, whereby said device may be readily inserted in place.

2,161,532

FILE

Benjamin Sakren, Brooklyn, N. Y., and William G. Levine, Miami Beach, Fla.

Application May 18, 1938, Serial No. 208,656
2 Claims. (Cl. 29—79)



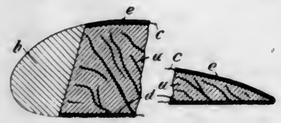
1. A file embodying a substantially rectangular frame, a plurality of gently curved cutters of substantially V-shaped cross sectional contour slidably engaged at the ends with the frame, a follower in the frame for forcing said cutters at the ends into tight engagement with each other, said cutters being spaced apart intermediate their ends to permit coarse filings to escape between the cutters, and a set screw carried by the frame and bearing against said follower to hold the follower in operative position, backing off of the set screw permitting the follower to be moved out of engagement with the cutters to permit the cutters being removed from the frame.

2,161,533

MEANS FOR PROTECTING WOODEN PROPELLERS

Max Scholz, Wilhelmshagen, near Berlin, and Adolf Wagenitz, Berlin, Germany, assignors to Hugo Heine, Berlin, Germany

Application February 1, 1937, Serial No. 123,540
In Germany February 1, 1936
8 Claims. (Cl. 170—159)



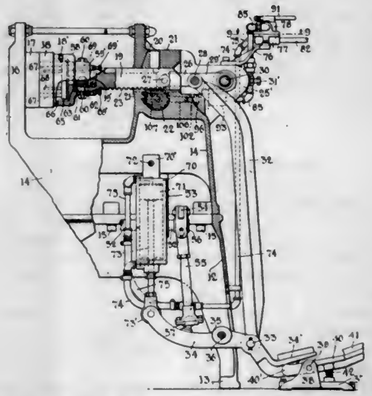
1. A wooden propeller blade which is covered throughout on at least its trailing edge and its opposite faces with perforated flat reinforcement metal, the metal being cemented directly to the wood of the blade by means of an adhesive of permanent elasticity, said adhesive consisting of a mixture of preferably already partially-hardened dissolved hardenable artificial resin with a saturated solution of boric acid in alcohol, and the surface of the adhesive lying above the reinforcing metal being provided with a hard layer of glazing.

2,161,534

DIE CASTING MACHINE

Raymond J. Schultz, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a corporation of Wisconsin

Application December 7, 1936, Serial No. 114,716
15 Claims. (Cl. 22—92)



1. The combination in a die casting machine of a multi-part separable die, one of said parts being adapted for movement to open and close

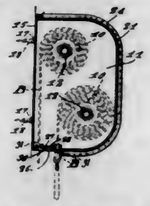
the die; power actuated means, including a double-acting, pressure-fluid piston and cylinder unit, for imparting said movement to the movable die part; means for feeding pressure fluid from a source of supply to the working end of said cylinder throughout the closing movement of the movable die part; and automatic means, actuated as a result of operation of said movable die part, for controlling the flow of exhaust fluid from the opposite end of the cylinder so as to retard said flow during the major portion of the die closing movement, but cause full flow thereof during the last portion of said movement, whereby to regulate operation of the movable die part and thus prevent slamming of the die in closing.

2,161,535

WINDOW SHADE HOUSING

Clarence Schwarzenbach and Harry Demmitt, Catonsville, Md.

Application October 19, 1936, Serial No. 106,430
1 Claim. (Cl. 156—10)



In a window shade housing, a two-part backing unit, a two-part front unit, the two parts of the backing unit and front unit being telescopically interfitted with each other respectively, out-turned ears formed at the outer ends of the two parts of the backing unit and having holes for journaling of a pair of window shade rollers therein, out-turned edges at the outer ends of the two parts of the front unit, curled beadings formed from said ears and directed inwardly of the backing unit for separably receiving the out-turned edges of the parts of the front unit, means formed at the uppermost edges of the front and back units for separable interfitting with each other throughout said edges, the lowermost edge of the front unit being removed a uniform distance throughout the extent thereof from the lower edge of the backing unit, and an extensible guide arranged between the lowermost edges of the backing and front units and separably fitting the ears of the backing unit for effecting separated guideways for the shades of the two shade rollers, respectively, held between said units.

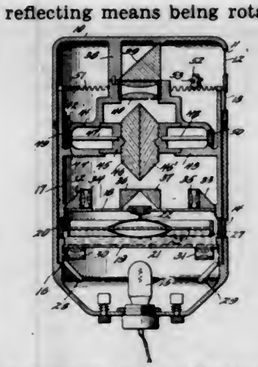
2,161,536

NAVIGATING INSTRUMENT

Pierre Sordoillet, Paris, France

Application April 8, 1937, Serial No. 135,807
10 Claims. (Cl. 88—24)

1. In a device of the character described, a compass rose, a fixed screen, and means for projecting an image of a marginal portion of said rose upon said screen, said projecting means comprising a source of illumination, means for reflecting light from a marginal portion of said rose toward the axis thereof, means for reflecting said light in a path parallel to and adjacent the extended axis of said rose, a Wollaston prism mounted in the path of said light reflected by said second means and rotatable about the axis of said rose, and image-forming means in the optical path between said rose and said screen, said first reflecting means being rotatable about



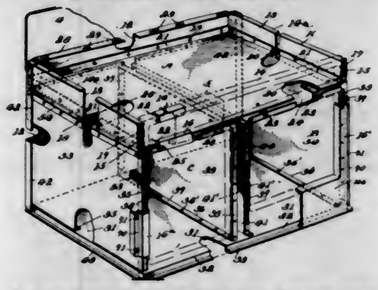
the axis of said rose in accordance with the desired course of travel.

2,161,537

GAS RANGE CONSTRUCTION

Arthur Stockstrom and Almer H. Brodbeck, St. Louis, Mo., assignors to American Stove Company, St. Louis, Mo., a corporation of New Jersey

Application August 4, 1936, Serial No. 94,256
5 Claims. (Cl. 126—39)



1. An improved range interior frame comprising, a base plate, a back plate extending upwardly from the rear edge of said base plate, a vertically extending plate secured to said base plate at each end thereof and of a height less than that of the back plate and forming the outer side walls of a pair of lower compartments, a pair of vertically extending plates secured to said base plate intermediate its ends and arranged in separated parallel relation and forming the inner side walls of the pair of compartments, a top plate for each lower compartment secured to the upper ends of said side wall plates and to the said back plate, a compartment overlying both of said lower compartments, said compartment having a bottom secured at its rear edge to said back plate and supported at its front edge by extensions from the top plates of said lower compartments whereby said bottom is disposed in separated parallel relation to the tops of said lower compartments, side plates extending along the sides of said upper compartment bottom and secured thereto and to the back plate, a front plate secured to the front faces of the members defining the front ends of the aforesaid compartments, said front plate having openings into all of said compartments and constituting a cross frame securing the front ends of the side walls of the upper compartment together, the parts providing a range inner frame having a rigidity sufficient to withstand the strain of transportation of the completed range.

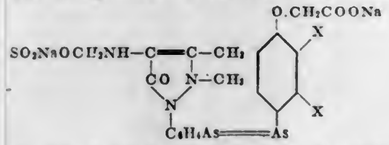
2,161,538

ASYMMETRIC ARSENO COMPOUNDS

Karl Streitwolf, deceased, late of Frankfort-on-the-Main, by Frieda Streitwolf, Frankfort-on-the-Main, Germany, administratrix, and Alfred Fehrle, Bad Soden in Taunus, and Walter Herrmann, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Original application December 23, 1930, Serial No. 504,414. Divided and this application March 2, 1937, Serial No. 128,692. In Germany July 22, 1930
4 Claims. (Cl. 260—300)

1. The compounds of the following formula:



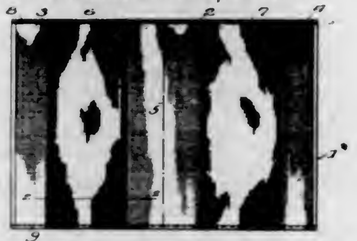
wherein one X represents a member of the group consisting of CH_3 and $-NH.CO.CH_3$ and the other X represents hydrogen, readily dissolving in water to neutral solutions of good efficacy and tolerability when applied intravenously, subcutaneously or intramuscularly.

2,161,539

DIAPER

Thomas J. Swartz, South Orange, N. J., assignor to The Thomas Textile Co., Inc., New York, N. Y., a corporation of New York

Application April 15, 1938, Serial No. 202,327
5 Claims. (Cl. 139—383)



1. A baby diaper having two sections of greater absorptivity than other sections of the diaper located at opposite sides of and substantially equidistant from a line on which the diaper may be folded before being applied to a baby, said sections being spaced apart an appreciable distance and composed of yarns of greater absorptivity extending in one direction, said sections of greater absorptivity also being spaced, respectively, an appreciable distance from opposite side edges of the diaper so that when the diaper is folded on said line said sections will be superposed and lie inwardly an appreciable distance from opposite sides of the folded diaper.

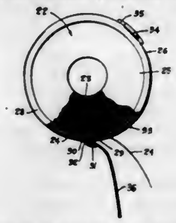
2,161,540

SUPPLY PACKAGE FOR STAPLING MACHINES

Charles I. Tager, New York, N. Y.

Application February 19, 1938, Serial No. 191,381
17 Claims. (Cl. 242—103)

1. A supply package for stapling machines comprising a spool having a core and end flanges; a quantity of continuous staple-making wire wound on the spool; a mounting for said spool comprising means encircling the spool and having bearing surfaces engaged by the periphery of said spool flanges to support the spool for rotation incident to withdrawal of the wire from the



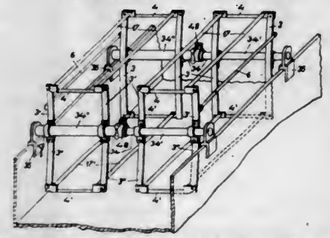
spool; and means adapted to engage portions of a stapling machine for supporting the package in operative position thereon, a wire-passage opening being provided between the sides of said spool-encircling means.

2,161,541

TRANSPORT APPARATUS FOR STRETCHERS AND THE LIKE

Fritz Tintner, Vienna, Austria

Application January 21, 1938, Serial No. 186,227
In Austria January 29, 1937
20 Claims. (Cl. 296—19)



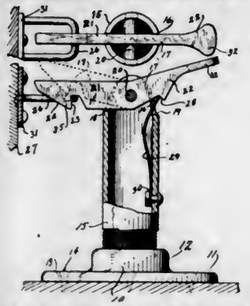
1. A transport apparatus for holding and bearing stretchers for the sick, comprising stretcher carriers and upright springs supporting said carriers and being so arranged and constructed as to be deflected in a substantially horizontal direction when said carriers are burdened.

2,161,542

DOOR HOLDER OR LATCH

Harry W. Titus, Uniontown, Pa.

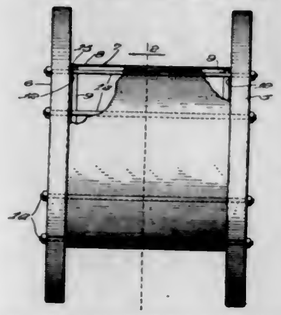
Application May 10, 1938, Serial No. 207,082
2 Claims. (Cl. 292—128)



1. A door holder comprising a footed base having an internally threaded annular boss, a tubular exteriorly threaded standard screwed therein at one end, said standard being longitudinally

slotted on opposite sides at its opposite end, a lever pivoted in said slots constructed to engage and hold a door element at one position, the root of said slot at the one side constituting a stop for the lever adjacent said position and the root of the slot at the opposite side spaced from the lever constituting a stop for release movement of the lever.

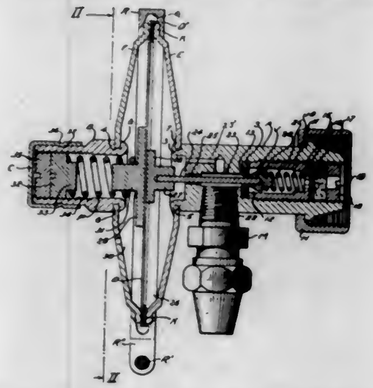
2,161,543
METAL DRUM
Erwin Wandrey, Chicago, Ill., assignor to R. B. Hayward Company, Chicago, Ill., a corporation of Illinois
Application September 23, 1938, Serial No. 231,437
1 Claim. (Cl. 242—77)



A metal drum comprising a drum-wall-forming shell, bands in the ends of said shell and set back from the terminal edges thereof, said bands having openings therethrough, weld means in said openings securing said bands to said shell at spaced apart intervals around the bands, rings located in the ends of said shell outwardly beyond said bands, the outer faces of said rings being substantially flush with the terminal edges of said shell, weld means securing adjacent ones of said bands and rings together at spaced apart intervals around the rings and disposed in staggered relation to said first-named welds and substantially equidistantly spaced from adjacent ones of said first-named welds, said rings being free of connection with said shell.

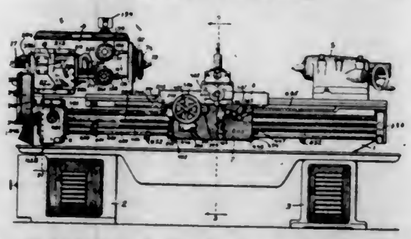
2,161,544
FLUID PRESSURE REGULATOR
Harry J. Baker, Indianapolis, Ind., and William F. Mesinger, Mount Vernon, N. Y., assignors to Oxweld Acetylene Company, a corporation of West Virginia
Continuation of application Serial No. 508,238, January 12, 1931. This application February 6, 1936, Serial No. 62,586
2 Claims. (Cl. 50—23)

1. A fluid pressure regulator comprising a valve casing having inlet and outlet chambers; a valve seat between said inlet and outlet chambers; an outlet passage for discharging gas from said outlet chamber; a valve controlling flow through said seat between said chambers and closing in the normal direction of said flow; a partition across the end of said outlet chamber opposite said valve seat; a passage through said partition axially in line with said valve; a diaphragm chamber at the upper end of said casing; a pressure responsive diaphragm forming an upper wall of said diaphragm chamber; resilient means acting against the upper surface of the diaphragm for regulating the pressure to which it responds; a valve stem operatively connecting said valve and said diaphragm for transmitting movement to said valve and passing axially through said seat and freely through the passage in said partition whereby a portion of the gas flowing axially through said seat follows said valve stem through the clearance space between said stem and said passage into the diaphragm chamber wherein such portion of gas tends to produce an undesired increment of pressure; a passageway of



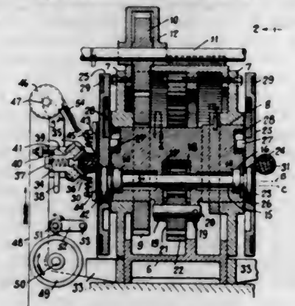
larger cross sectional area than that of the clearance space between said valve stem and said partition arranged for conducting gas freely from said diaphragm chamber to said outlet chamber, said passage entering said outlet chamber substantially perpendicularly to the axis of the valve stem and at a point spaced from said outlet passage whereby said diaphragm is responsive to static outlet pressure only.

2,161,545
LATHE TRANSMISSION AND THE LIKE
William F. Groene and George W. Luning, Cincinnati, Ohio, assignors to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application June 10, 1936, Serial No. 84,500
28 Claims. (Cl. 82—2)



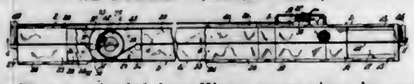
1. In a lathe headstock, the combination of a spindle, a back gear shaft, and a drive shaft, a large gear fixed on the spindle, a smaller gear fixed on the spindle, a worm wheel rotatably mounted on said spindle, a compound back gear mounted on the back gear shaft adapted to be moved alternatively to engage one or the other of the gears on the spindle and to neutral position, a worm wheel fixed on the back gear shaft, worms fixed on the drive shaft engaging said worm wheels, means for connecting said first mentioned worm wheel to drive the spindle when the compound back gear is in neutral position, and means for driving said drive shaft.

2,161,546
METHOD AND APPARATUS FOR WINDING BALLS
Frank Honig, Pawtucket, R. I.
Application May 12, 1936, Serial No. 79,251
19 Claims. (Cl. 242—3)



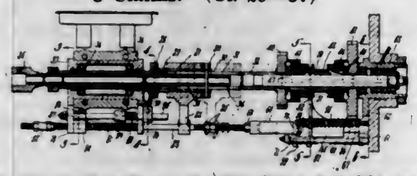
1. Apparatus for winding a body of filamentary material on a core to form a spherical ball, comprising in combination, means for holding a core, means for winding a filament thereon, means for applying mechanical tension to said strand to elongate it, and means for applying heat to the strand to elongate it as it is fed to said core.

2,161,547
MATERIAL HANDLING APPARATUS
Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application August 4, 1937, Serial No. 157,367
21 Claims. (Cl. 214—110)



1. In a material handling apparatus, in combination, a portable storage receptacle for receiving the material to be handled, a portable loading slide, a low compact portable guide structure extending between said receptacle and slide and providing a guideway therebetween, said receptacle, slide and guide structure adapted to rest upon and slide in any direction over a bottom supporting surface, and a transfer means guided on said guideway for reciprocable movement back and forth therealong for moving the material to be handled from said receptacle along said guide structure into a discharge position on said loading slide.

2,161,548
THREADING MECHANISM
Carroll E. Miller, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont
Application June 7, 1937, Serial No. 146,774
3 Claims. (Cl. 29—57)



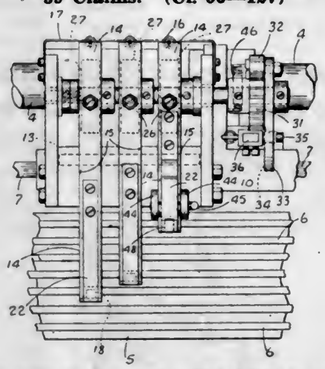
1. In combination, means for rotatably supporting a threaded cutting tool with capability of axial motion, mechanism for rotating said supporting means including a pair of driving means and a member movable to select which of said pair of means is in driving relation to said supporting means, means biasing said selecting means to select one of said driving means, a latch for holding said selecting means in position to select the other of said driving means, means biasing said latch to latching position, a latch-release mechanism biased to latch-releasing condition, trigger means for holding said release mechanism out of latch-releasing condition, and means for releasing said trigger means when said supporting means has moved axially to a predetermined point through engagement of the tool with the work.

2,161,549
DECORATED ARTICLE
Lucifer J. Most, Arlington, N. J., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application February 18, 1937, Serial No. 126,379
1 Claim. (Cl. 41—34)



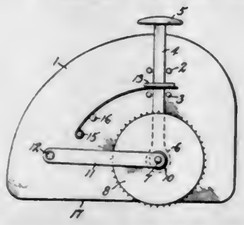
A decorated article comprising a metallic base having an opening therethrough, and plastic material extending through said opening and provided with a head on each side of the said base, whereby said plastic material is locked in position on said base, said base being provided with a recess aligned with said opening on one side of said base, the head of plastic material on that side of the base being located entirely in the said recess, and presenting a surface substantially continuous with the surface of that side of the base, the head of plastic material on the other side of the base presenting a surface parallel to that of said other side of the base.

2,161,550
YARN LAYING MECHANISM FOR STRAIGHT-BAR HOSIERY MACHINES
Arthur W. Mutchler, Bangor, Pa., assignor to Julius Kayser & Co., New York, N. Y.
Application August 13, 1932, Serial No. 628,672
39 Claims. (Cl. 66—127)



15. In combination with the friction rod, friction box and slur bar of a full fashioned knitting machine, carrier rod driving means carried by said friction box, mechanism for automatically and selectively engaging and disengaging said driving means with carrier bars for the selective operation thereof said selecting mechanism being operated periodically by said slur bar.

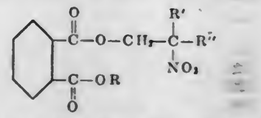
2,161,551
INSTRUMENT FOR DRAWING SCALES
Håkan David Leonard Nilsson, Stockholm, Sweden
Application September 3, 1937, Serial No. 162,386
In Sweden September 3, 1936
7 Claims. (Cl. 33—38)



1. An instrument for marking scales adapted to be moved over a surface, a plate member, a rotatable roller movably secured to said plate, means on said roller for marking a scale on said surface, means for moving said roller relative to said plate to an inactive position entirely within the boundaries of said plate, and means for moving said roller against the action of the last mentioned means to a position in which the roller is partially outside the lower boundary of said plate.

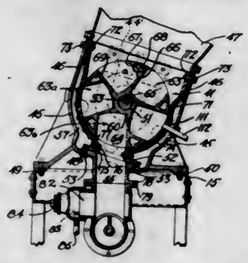
2,161,552
ESTERS OF PHTHALIC ACID
Byron M. Vanderbilt, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application May 5, 1938, Serial No. 206,190
7 Claims. (Cl. 260—475)

1. Esters of phthalic acid of the general formula:



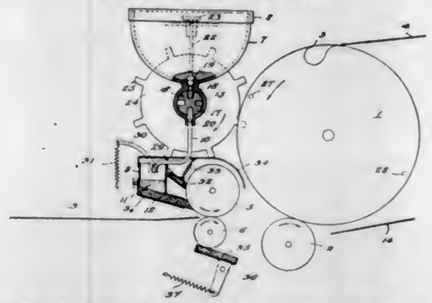
in which R, R', and R'' are members selected from the group consisting of H and alkyl.

2,161,553
MEANS OF CONVEYING AND MIXING COMMINUTED MATERIAL
Gustave Edward Westberg and Harry Westberg, Los Angeles, Calif.
Application September 30, 1935, Serial No. 42,873
2 Claims. (Cl. 259—151)



1. A device of the character described comprising a hopper, a rotary valve housing therebeneath, a rotary valve element within said valve housing and operating on a horizontal axis, a dispersion chamber beneath the valve housing and in communication therewith to receive material from the rotary valve and to permit it to fall therein by gravity, an air dome having a substantially hemispherical closed outer end disposed at the side of the dispersion chamber and adapted to introduce air under pressure tangentially thereinto and in a general direction at right angles to the path of the falling material whereby a gyratory motion will be given the air to insure that the air will flow through the dispersion chamber at a uniform rate, the dispersion chamber having an unrestricted outlet opening at its lower end, a feed housing disposed transversely of the lower end of the dispersion chamber, and communicating therewith through said unrestricted outlet, and a feed screw extending longitudinally of the feed housing and across said outlet opening to receive and advance the material and associated air moving downwardly from the dispersion chamber to the feed chamber.

2,161,554
MOISTENING DEVICE FOR DUPLICATING MACHINES
Egidio Maria Benello, New York, N. Y., assignor to Manifold Supplies Company, Brooklyn, N. Y., a corporation of New York
Application March 9, 1937, Serial No. 129,801
11 Claims. (Cl. 101—132)



1. In a spirit duplicating machine having cooperating printing and counter pressure rollers, a pair of combination feed and moistening rollers located in front of the bight of said rollers, and a moistening felt bearing against the surface of said moistening roller, solvent supplying means for said machine; said solvent supplying means comprising in combination a reservoir for a readily volatilizing solvent, conduit means for feeding said solvent to said moistening felt, rotary valve means in said conduit means adapted to release a positively controlled unitary amount of solvent for each copy sheet to be printed, and means for actuating said rotary valve means in accordance with the rate of operation of the duplicating machine.

2,161,555
METHOD OF PREPARING CELLULOSE FOR ESTERIFICATION
Loring W. Blanchard, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 23, 1938, Serial No. 192,063
5 Claims. (Cl. 260—229)

1. In the preparation of cellulose esters in which the acyl content essentially consists of fatty acid groups of 3–4 carbon atoms, the pretreatment step which comprises treating cellulose with a catalyst-free pretreatment bath essentially consisting of fatty acid of 3–4 carbon atoms, a predominating proportion of chloracetic acid and sufficient, but not appreciably more than sufficient, anhydride of an organic acid of 2–4 carbon atoms to combine with all of the water present in the pretreatment mass.

2,161,556
DIP-SOLDERING
Walter P. Carroll, Cicero, and Dimitrie S. Kondrat, Chicago, Ill., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 11, 1937, Serial No. 174,063
2 Claims. (Cl. 113—112)

1. The process of dip-soldering metal articles which comprises floating a layer of molten salt mixture on a molten solder bath, such mixture containing zinc chloride and stannous chloride, the latter being present in the proportion of between 10% and 30% of the whole mixture, then passing the article directly through such molten layer into the bath and removing it therefrom by passing it a second time through said layer, said floating layer having a depth considerably more than necessary for merely preventing atmospheric oxidation of the solder bath, and serving to strip off excess solder as it is removed from said bath and tin-coat the solder that remains.

2,161,557
APPARATUS FOR TAKING FLUID SAMPLES
Joseph Baldwin Clark, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application May 31, 1938, Serial No. 210,960
14 Claims. (Cl. 166—1)



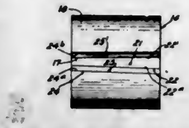
1. Apparatus for taking samples of fluid from a well comprising a sample chamber having inlet and outlet ports, means for preventing back flow of fluid from said chamber through said inlet port, a valve in said outlet port, means for urging said valve to its closed position, means for retaining said valve in its open position against the action of said urging means, means actuated by an electric current for rendering said valve-retaining means inoperative and means for supplying an electric current to said last-mentioned means at a desired time.

2,161,558
ETHERS OF TERTIARY-ALKYL PHENYLPHENOLS
Gerald H. Coleman and Garnett V. Moore, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 31, 1938, Serial No. 211,025
8 Claims. (Cl. 260—612)

1. An alkyl ether of an alkiated phenylphenol wherein at least one tertiary-alkyl radical is attached to the oxygenated benzene ring.

2. An alkyl ether of an alkylated phenylphenol wherein at least one tertiary-alkyl radical is attached to the oxygenated benzene ring, and each such alkyl group contains not more than 8 carbon atoms.

2,161,559
SPLIT BUSHING
George T. Cooke, Norwalk, Conn., assignor to American Railway Products Co., Inc., Darien, Conn., a corporation of New York
Application July 19, 1937, Serial No. 154,461
10 Claims. (Cl. 308—237)



1. A bearing for lining the bore of an article comprising a split bushing having a wide and a narrow slot extending axially thereof, both of said slots converging lengthwise of the bushing; and a tapered key fitting into both of said converging slots for expanding the split bushing in the bore.

2,161,560
LUBRICATING COMPOSITION
Moses L. Crossley, Plainfield, N. J., assignor to Calco Chemical Co. Inc., Bound Brook, N. J., a corporation of Delaware
No Drawing. Application December 24, 1936, Serial No. 117,586
2 Claims. (Cl. 87—9)

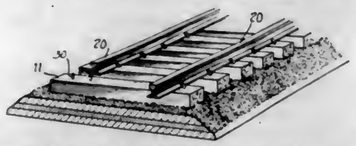
1. A lubricating composition comprising a mineral lubricating oil and a small amount of polychlorinated naphthol.

2,161,561
CONTAINER CLOSURE AND PROCESS FOR PRODUCING THE SAME
Schuyler N. Dalton, Huntington Terrace, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
Application March 2, 1937, Serial No. 128,615
8 Claims. (Cl. 215—38)



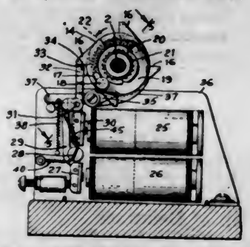
7. A shrinkable container closure comprising a tubing formed of cellulosic material, opaqueing pigment disposed within said material, the wall of said tubing being of varying thickness over longitudinally extending areas to cause said tubing to be transparent over the thinner areas.

2,161,562
SMALL SCALE MODEL RAILROAD TRACKAGE AND METHOD OF ASSEMBLY
Howell Day, New Market, N. J.
Application November 17, 1938, Serial No. 240,887
1 Claim. (Cl. 238—378)



In a small scale model railroad system, a track comprising a plurality of wooden cross ties, a rail having the standard shape resting with its flange upon the ties, means to secure the rail to the ties comprising a U shaped wire initially of uniform cross section passing through each tie with the ends of the U clinched over the flange of the rail on each side thereof with said ends flattened and widened in said clinching operation to represent the heads of spikes.

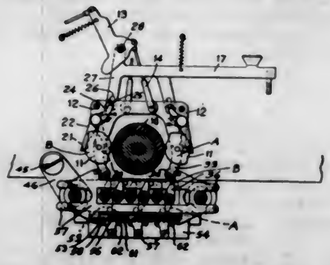
2,161,563
CLUTCH DEVICE
Charles R. Doty, Binghamton, and Kurt R. Schneider, Endicott, N. Y., and Albert C. Holt, Princeton, N. J., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 22, 1936, Serial No. 75,692
6 Claims. (Cl. 192—40)



1. A device of the character described comprising a driving member, a driven member, a clutch unit including a clutch operating element adapted to operate said members in unison upon operation of said element, a plurality of electromagnetic control elements, means to render the clutch unit effective to operate the said members continuously upon energization of one of said control elements, and means to render the clutch unit effective to operate the said members a predetermined extent upon the deenergization of another of said control elements.

2,161,564
TELETYPEWRITER
Clyde J. Fitch and Kurt R. Schneider, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 2, 1936, Serial No. 113,798
14 Claims. (Cl. 178—79)

1. A device of the character described comprising, in combination, a keyboard comprising a plurality of operable key bars, a plurality of rotatable permutation members arranged in a normal position associated therewith, said members having selectively positioned means disposed thereon, control means operated by said members, and means associated with the said key bars and controlled upon operation of the key bars to engage the selectively positioned means on the members to control selectively predetermined combinations of said members by posi-



tioning said members from the said normal position and thereby operating the said control means accordingly and means to return the members to the normal position upon operation of the said control means.

2,161,565
ARCH SUPPORTER
Severino A. Freda, Great Neck, N. Y.
Application June 10, 1938, Serial No. 212,922
1 Claim. (Cl. 36—71)

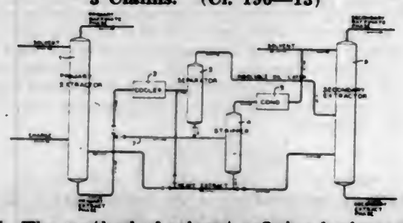


An arch supporter comprising an insole provided with a slitted portion along its inner edge and a body disposed within the slit, said body having a substantially vertical wall, said wall being curved and disposed along the inside edge of the insole and extending from a point midway of the heel portion to a point at the rear of the ball, the outer or opposite edge of the body extending in a convexly curved line from the first mentioned point to a point adapted to support the metatarsal region of the foot and lying substantially in the longitudinal center line, a third edge of the body extending from the third point to the second mentioned point, said body tapering transversely from the vertical wall to the other edge thereof and also tapering longitudinally in opposite directions from an intermediate portion of the body to the ends thereof.

2,161,566
LUBRICATING OIL AND METHOD OF PROTECTING SAME
Everett W. Fuller, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 1, 1936, Serial No. 93,761
8 Claims. (Cl. 87—9)

1. A mineral oil composition comprising a highly refined lubricant oil and incorporated therein a small amount, not to exceed 0.5 per cent and sufficient only to stabilize against oxidation, of an alkyl ester of an alkyl xanthic acid.

2,161,567
SOLVENT REFINING OF OIL
William P. Gee, Plainfield, N. J., and Max Neuhaus, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 27, 1937, Serial No. 133,304
3 Claims. (Cl. 196—13)



1. The method of solvent refining hydrocarbon oil which comprises extracting the oil with a relatively large proportion of a selective solvent at an elevated temperature of around 200 to 300° F., forming a primary raffinate phase consisting essentially of oil having a high viscosity index of around 100 and a primary extract phase comprising oil of low and intermediate viscosity index dissolved in the bulk of the solvent, removing said primary phases, reducing the temperature of the primary extract phase to around 130 to 160° F. to separate it into an insoluble oil fraction and a heavy extract fraction containing the bulk of the solvent, stripping substantially all of the solvent from said heavy extract fraction, incorporating a portion of the stripped heavy extract in the primary extract phase after removal from the primary stage to facilitate its separation into fractions, subjecting the insoluble oil fraction to countercurrent extraction with a further quantity of selective solvent, in relatively smaller proportion than that used in the primary stage in a secondary extraction zone in the absence of feed oil, maintaining said secondary extraction zone at a temperature of around 140 to 250° F., introducing a portion of the stripped heavy extract fraction to the secondary extraction zone, forming secondary extract and raffinate phases, and removing said phases.

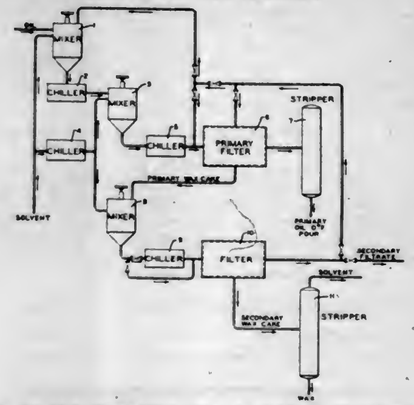
2,161,568
TOOL JOINT AND METHOD OF MAKING SAME
Frank C. Gignoux, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application December 24, 1936, Serial No. 117,483
3 Claims. (Cl. 29—148.2)

3. The method of assembling a tool joint assembly comprising a tube having an external tapered threaded portion and an external cylindrical threaded portion adjacent the inner end of said tapered threaded portion and a joint member having an internal tapered threaded portion and an internal cylindrical threaded portion adjacent the outer end of said tapered threaded portion, said tapered threaded portions and said cylindrical threaded portions being interengageable, the outside diameter of said tube member cylindrical threaded portion being slightly greater than the internal diameter of said joint member cylindrical threaded portion, which consists in heating the cylindrical threaded portion of said joint member, and screwing said joint member on said tube member to effect a relatively loose engagement of said cylindrical threaded portions and said tapered threaded portions, permitting said joint member cylindrical threaded portion to cool and shrink upon said tube member cylindrical threaded portion, and then screwing said joint member tightly on said tube member to effect a relatively tight engagement of said tapered threaded portions, and thereby preventing concentration of stresses at



the outer end of said tube member tapered threaded portion incident to the expansion of said joint member and the compression of said tube member when said members are screwed tightly together, and causing said stresses to be distributed over said tapered threaded and cylindrical threaded portions.

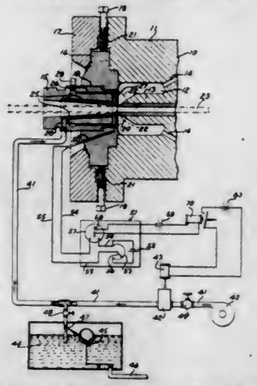
2,161,569
DEWAXING HYDROCARBON OIL
Howard H. Gross, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 19, 1938, Serial No. 191,350
5 Claims. (Cl. 196—18)



1. In the dewaxing of wax-bearing hydrocarbon oil to produce oil of around 0° F. pour, the method comprising mixing the oil with a small proportion of selective dewaxing solvent sufficient to render the mixture relatively fluid at the dewaxing temperature, chilling the mixture to a temperature of at least as low as about 0° F. just above that at which liquid hydrocarbons would begin to separate from the mixture, adding prechilled solvent at susbtantially this same temperature to the chilled mixture such that at a temperature of around 0° F. the solvent contained in the entire mixture has substantially complete

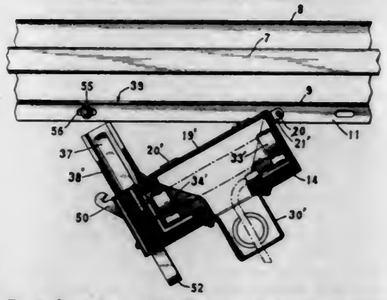
selective action as between liquid and solid hydrocarbons, forming a precipitate of solid hydrocarbons, chilling this mixture to a slightly lower temperature to cause separation of a small amount of a third phase consisting of a mixture of petroleum hydrocarbons relatively lean in solvent and having a crystalline character, and separating the solid hydrocarbons from the chilled mixture in the presence of said small amount of third phase material.

2,161,570
COOLING SYSTEM
Robert A. Harris, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1936, Serial No. 76,029
7 Claims. (Cl. 207—16)



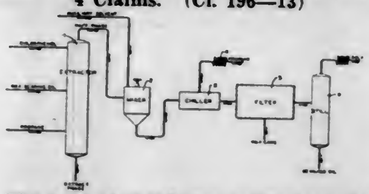
1. In an apparatus for extruding heated material, an extrusion chamber having apertured walls, and a temperature control device for said chamber, comprising means for measuring the temperature of the chamber, means for mixing water and air in predetermined proportions, and means responsive to the temperature measuring means for circulating the mixture of water and air in the apertured wall of the chamber.

2,161,571
BUS BAR CONDUIT SYSTEM
Frank Harvey, Cincinnati, Ohio, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application October 3, 1936, Serial No. 103,815
8 Claims. (Cl. 200—114)



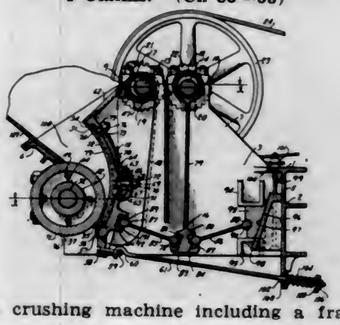
8. In a bus bar distribution system, a conduit substantially rectangular in cross section having an opening in one side leading to a bus bar in the conduit, flanges on the conduit forming a channel face on the side having the opening, a box-like branch circuit connector of a depth greater than said channel and fitting between said flanges, hinge means passing through said flanges and pivotally supporting one end of the connector between said flanges, a contact element projecting from the other end of the connector for insertion into the opening to electrically connect a bus bar in the conduit to a branch circuit, releasable means for supporting this other end of the connector between said flanges, and a branch circuit conductor support on a face of said connector opposite said contact element and outside of said channel.

2,161,572
SOLVENT REFINING AND DEWAXING HYDROCARBON OIL
Waldersee B. Hendrey, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 1, 1937, Serial No. 140,083
4 Claims. (Cl. 196—13)



1. The method of refining residual wax-bearing mineral oil comprising extracting the oil in the presence of a liquefied normally gaseous petroleum hydrocarbon with a monochlorphenol mixture containing around 50 to 75% of parachlorphenol, forming an extract phase containing low viscosity index constituents dissolved in the solvent liquid and a raffinate phase comprising high viscosity index constituents and wax mixed with some of the solvent, separating the phases, adding to the raffinate phase an auxiliary solvent liquid comprising chloroform in such proportion that the liquefied hydrocarbon, chlorphenol and auxiliary solvent mixture exerts substantially complete selective action as between liquid and solid hydrocarbon constituents of the oil at said temperatures, chilling the mixture to precipitate solid hydrocarbons, and removing the solid hydrocarbons so precipitated.

2,161,573
CRUSHING MACHINE
Edward A. Henry, Joplin, Mo.
Application October 21, 1936, Serial No. 106,794
4 Claims. (Cl. 83—53)



1. A crushing machine including a frame, a crushing roller supported on the frame, a crushing jaw cooperating with the crushing roller, means mounting one end of the jaw for movement in an approximately circular path, means supporting the other end of the jaw for oscillatory movement to and from the crushing roller in an elliptical path, means for moving said ends of the jaw at substantially the same rotational speed to effect feed of material between the crushing jaw and crushing roller, and means for constantly rotating said crushing roller at a peripheral speed to effect advance of the material at the same rate as effected by said crushing jaw.

2,161,574
SILVER ALLOY
Franz R. Hensel, Kenneth L. Emmert, and James W. Wiggs, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application February 21, 1939, Serial No. 257,666
3 Claims. (Cl. 75—173)

1. A silver base alloy consisting of .05 to 15% magnesium, .05 to 25% gold, balance substantially all silver.

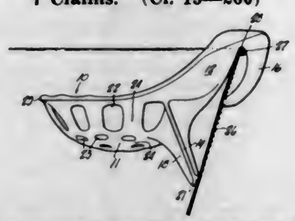
2,161,575
SILVER ALLOY
Franz R. Hensel, Kenneth L. Emmert, and James W. Wiggs, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application March 16, 1939, Serial No. 262,174
5 Claims. (Cl. 75—173)

1. A silver base alloy consisting of magnesium .1 to 15%, cadmium .5 to 25% and silver substantially the entire balance.

2,161,576
SILVER BASE ALLOY
Franz R. Hensel, Kenneth L. Emmert, and James W. Wiggs, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application April 13, 1939, Serial No. 267,607
4 Claims. (Cl. 75—173)

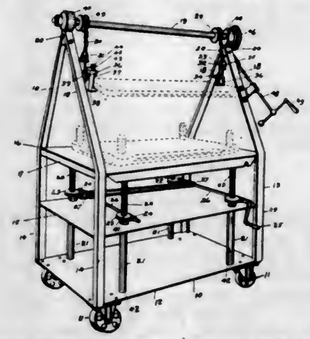
1. An alloy comprising .05 to 15% magnesium, .005 to 10% thorium, and the entire balance substantially all silver.

2,161,577
MOP WRINGER
Arlene R. Howlett, Buchanan, Mich.
Application June 29, 1936, Serial No. 87,903
7 Claims. (Cl. 15—260)



1. The combination with a sheet metal pail, of a mop wringer comprising an apertured cup portion, a rigid hook portion projecting upwardly therefrom and terminating in an outwardly spaced bearing portion, and rigid feet projecting angularly downwardly from said cup portion, said hook portion engaging the edge of said pail, the end faces of said feet and the faces of said bearing portion and pail engaging hook portion all lying substantially in a common conical surface whereby they slightly distort said pail when mounted thereon to lock said wringer to said pail.

2,161,578
DIE TRUCK
Bernard G. Johnson, Brookfield, Ill.
Application November 5, 1937, Serial No. 172,978
1 Claim. (Cl. 311—39)

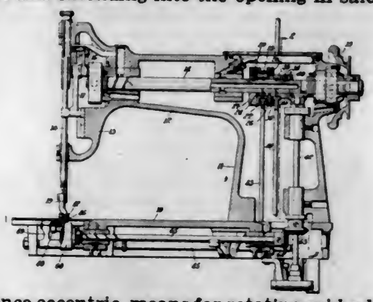


In a portable table construction a fixed bottom table, a plurality of spaced tubes having their lower ends attached to the upper surface of said bottom table, a fixed intermediate table, the upper ends of said spaced tubes attached to the under surface of said intermediate table and supporting said intermediate table in spaced relation to said bottom table, a movable top table, a plurality of spaced screws having their upper ends attached to the under surface of said top table, said screws extending downwardly to said intermediate table when the top table is normally spaced from said intermediate table, a worm wheel surrounding and attached to each of said screws, a worm gear positioned to contact each of said worm wheels, means for operating said worm gears and in turn said worm wheels for raising and lowering said screws, said screws positioned so that when said screws are lowered said screws enter said spaced tubes so that said top table may be lowered with relation to the fixed intermediate table, a frame having a plurality of uprights with their lower ends attached to the upper surface of said lower table adjacent the corners thereof, said uprights extending vertically beyond the intermediate table to substantially the normal level of the top table and cross members attached to each pair of uprights at the upper ends thereof so that when the table is below normal level, the cross members may hold objects placed thereacross.

2,161,579
ADJUSTABLE ECCENTRIC FOR SEWING MACHINES
Richard Kaier, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 23, 1938, Serial No. 203,728
7 Claims. (Cl. 112—210)

1. In a sewing machine, a rotary shaft, a collar formed with a groove and secured to said shaft, a feed advance eccentric rotatable with said col-

lar and slidable in said groove, said eccentric being formed with a centrally located opening, an adjustable eccentric rotatable relative to said shaft and extending into the opening in said feed



advance eccentric, means for rotating said adjusting eccentric relative to said shaft, and spring biased means for locking said adjusting eccentric to said shaft.

2,161,580

NEUTRALIZATION OF ACID OILS

Marcus T. Kendall, Long Beach, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application October 16, 1936, Serial No. 105,946

4 Claims. (Cl. 196—41)

1. A continuous process of neutralizing acid treated hydrocarbon oil distillates which comprises quickly suspending finely divided quick lime in 200 to 400 parts by weight of water, then contacting the acid oil with the lime suspension whereby the oil is neutralized, and separating the neutralized oil from the aqueous reagent.

2,161,581

DEWAXING OF MINERAL OILS

Edwin C. Knowles, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application January 27, 1938, Serial No. 187,161

4 Claims. (Cl. 196—18)

4. In the dewaxing of mineral oil, the method which comprises adding to the oil to be dewaxed about 0.1–0.5% of cellulose stearate and about 0.02–0.20% of montan wax, chilling the oil to precipitate wax, and separating the precipitated wax from the oil.

2,161,582

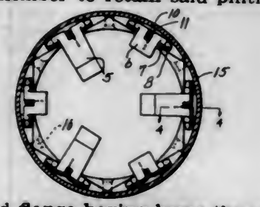
CORE CATCHER

Donald Mackenzie and John E. Hoffoss, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application January 7, 1938, Serial No. 183,788

8 Claims. (Cl. 255—72)

1. In a core catcher assembly, a ring shaped body member having one of its ends notched at circumferentially spaced points and grooves in the face of said end at right angles to and extending on opposite sides of each of said notches respectively, a plurality of core catcher fingers mounted in said notches respectively, and having integral bearing pintles lying in said grooves on opposite sides of said notches to pivotally mount said fingers, each of said fingers being notched between said pintles and having a relatively small bore extending longitudinally of said finger from said notch, a coil spring within each such notch and having one end thereof anchored within said bore, a retaining ring fitting about said body member and having at one end an inwardly extending flange in engagement with the end of said body member to retain said pintles in said



grooves, said flange having bores therein receiving and anchoring the opposite ends of said springs, said springs when so anchored tending to force said fingers downwardly and inwardly, and means for securing said retaining ring in place on said body.

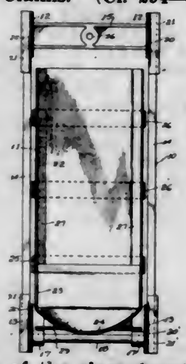
2,161,583

MINE SKIP

Ora D. McClure, Ishpeming, Mich.

Application May 4, 1937, Serial No. 140,648

5 Claims. (Cl. 294—73)



1. In a skip of the class described, the combination of a bucket having a bowl-shaped bottom and an annular flange on the outer side of said bottom, a pair of axially alined journal bearings attached to the bottom side of said flange, a cradle having at its lower end a pair of flat steel end plates to which the lower end portions of the side limbs of the cradle are secured, and a pivot shaft for said bucket tightly fitted in holes in said end plates and rigidly connecting and spacing the latter, said pivot shaft extending through said bearings.

2,161,584

PETROLEUM LUBRICANT COMPOSITION

Robert C. Moran, Wenonah, and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application August 1, 1936, Serial No. 93,760

3 Claims. (Cl. 87—9)

1. A lubricant oil composition capable of maintaining a lubricating film under conditions of high unit loading comprising a major portion of a mineral hydrocarbon lubricant not so capable, and in admixture therewith a small amount of an oil-miscible, substantially water-insoluble dialkyl xanthyl ethyl ether.

2,161,585

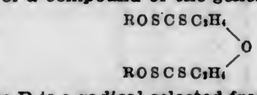
STABILIZED MINERAL OIL

Robert C. Moran, Wenonah, and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application August 1, 1936, Serial No. 93,762

8 Claims. (Cl. 87—9)

1. A refined petroleum oil of high boiling point, stabilized against the deterioration effects of oxidation by the addition thereto of a small amount sufficient to substantially inhibit oxidation of a compound of the general formula



where R is a radical selected from the group consisting of alkyl and aralkyl radicals.

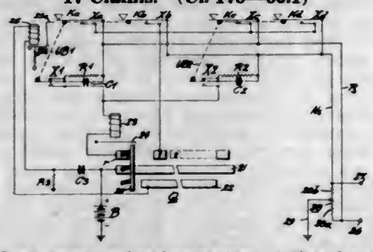
2,161,586

COMMUNICATION SYSTEM

Harry J. Nichols, Binghamton, and Henry L. Tholstrup, Endwell, N. Y., assignors, by direct and mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 12, 1935, Serial No. 54,134

17 Claims. (Cl. 178—53.1)



1. In a communication system of the character described the method of signalling which comprises the steps of sending a preliminary signal of distinctive character indicative of a selecting starting operation to be performed, and thereafter sending a second signal having predetermined time relation to said preliminary signal, said signals being indicative of a desired operation to be performed; receiving said signals, utilizing said first mentioned signal to select from a plurality of rotary elements the one element predetermined in accordance with the characteristics of said preliminary signal, releasing said selected rotary element from a predetermined phase position, and utilizing said second mentioned signal in cooperation with said selected rotary element to perform the operation as desired.

2,161,587

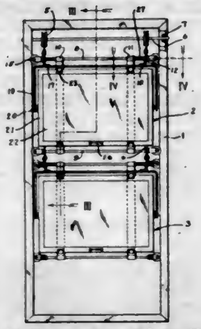
BLACKBOARD

Glenn W. Pettis, Detroit, Mich.

Application July 5, 1938, Serial No. 217,465

5 Claims. (Cl. 35—63)

1. In a device of the character described, a pair of blackboard frames, a double surface blackboard mounted in each frame, a pair of vertically movable carriages, a vertical track including a support positioned in cooperative relation with each carriage, wheels attached to the carriages for engaging the tracks, means for connecting the frames in vertical movable relation with the support, whereby one of the frames supporting a blackboard counterbalances the other frame and blackboard, and means for pivotally reversing either of the blackboard frames comprising a



yoke pivoted at its upper end to the carriage and pivotally supporting the blackboard in a horizontal axis.

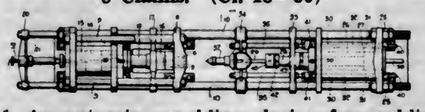
2,161,588

EXTRUDED ARTICLE AND DEVICE FOR MAKING SAME

Rene P. Piperoux, Radburn, N. J., assignor to Celluloid Corporation, a corporation of New Jersey

Application March 22, 1935, Serial No. 12,369

8 Claims. (Cl. 18—30)



1. An extrusion molding device for molding organic thermoplastic substances, comprising a hopper for holding a supply of material, a nozzle connected to said hopper, a sectional mold adapted to receive the material from said nozzle, a plunger in said nozzle, fluid pressure means for operating said plunger, a second fluid pressure means operatively connected to a section of the mold remote from said nozzle and adapted to hold the sections of the mold together, means binding the two fluid pressure means together and fluid pressure means for registering said nozzle with, and holding said nozzle against, said mold, under a pressure which is less than the pressure employed for holding the mold sections together.

2,161,589

TABULATING MACHINE

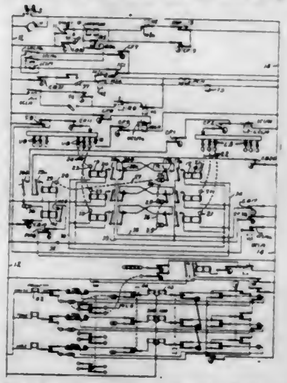
Edward J. Rabenda, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application April 25, 1935, Serial No. 18,145

4 Claims. (Cl. 235—61.7)

1. In a group control system for a tabulating machine responsive to record cards having columns of differently located index point positions, comprising a pair of sensing devices for sensing a column in each of a pair of record cards, one sensing device sensing the different positions in the column of one card, in succession, while the other sensing device, concurrently, and in a like manner senses the correspondingly located positions in the column of the second card, a magnet for each sensing device, circuit connections completed by each sensing device upon sensing a perforation in an index point position for energizing its related magnet, means controlled by

each magnet, upon energization, for completing a holding circuit for the magnet, an armature for each magnet, a control magnet, a circuit closing device, a pair of normally incomplete circuit connections including said armatures intermediate the control magnet and the circuit closing device, said armatures and circuit connections being arranged to complete one of said intermediate connections when only one of the related magnets is energized, in response to the concurrent sensing of the same index point posi-



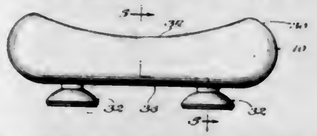
tions in the two card columns, and means for operating said circuit closing device to complete a circuit through said control magnet and the completed intermediate connection, said means being coordinated with said sensing devices for effecting closing of said circuit closing device after an index point position is sensed, a related magnet energized and a holding circuit completed therefore, and for effecting reopening of said circuit closing device before the next succeeding index point position is sensed.

2,161,590

HEAD REST FOR BASINS AND THE LIKE

William S. Rickard, Chicago, Ill.

Application March 5, 1938, Serial No. 194,044
1 Claim. (Cl. 4—159)



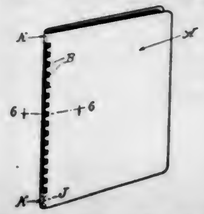
A head rest adapted to be mounted in secure but readily detachable fashion upon relatively flat or rounded rims of wash bowls, bath tubs, and the like, including in combination, a substantially solid resilient support, said support being substantially liquid impervious throughout, relatively short, of a width comfortably to receive the back of the head, and provided with a pair of spaced apart opposed surfaces, one of said surfaces being concave so as comfortably to support the back of the head, and suction cups on the other of said surfaces for mounting the support upon the rim of the basin or the like in a secure but readily detachable fashion with the concave surface of the support facing away from the rim, said opposed surfaces being spaced apart a distance such that when the support is mounted in place, the concave surface is spaced from the surface of the rim a distance sufficient to prevent contact of the user's head with the rim.

2,161,591

BOOK CONSTRUCTION

Joseph P. Rose, Poughkeepsie, and Fabian L. Russell, Saugerties, N. Y., assignors to Saugerties Manufacturing Co., Saugerties, N. Y., a corporation of New York

Application May 27, 1938, Serial No. 210,372
4 Claims. (Cl. 281—19)



1. A book comprising a refill unit constituted of a multiplicity of sheets having spaced apertures near their inner edges, a ring member assembly including a plurality of ring members extending through such apertures binding said sheets together and arranged in spaced relation and in parallelism with each other and connected together by tie means which maintain such ring members in parallel arrangement and limit movement of the ring members through the apertures of the sheets to a distance approximating the circumferential extent of the ring members less the thickness of the book of bound sheets, a removable cover for said refill unit having a back panel portion composed of flexible material and provided centrally of the cover with a single row of rectangularly shaped apertures alternating with strips, said apertures approximating in length the diameter of the ring members, and being penetrated by said ring members so that two oppositely rising portions of each ring member extend through the same aperture and a withdrawable rod member extending through all of said ring members, the major portion of said rod being positioned intermediate the portions of the ring members projecting through said apertures and the transverse strips of the back panel portion of the cover and centrally located with respect to said strips, said projecting portions of the ring members and of the rod supplying an exterior rigid rear protection for the strips, said rod automatically operating to cause the cover to bend along a line extending longitudinally of the backing portion and midway of the strips when the book is opened and part of it bent back upon itself.

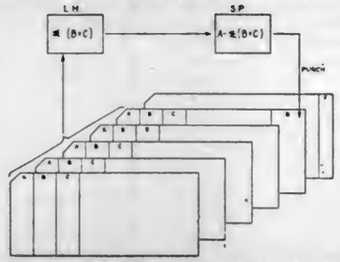
2,161,592

MULTIPLYING MACHINE

Russell A. Rowley, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 13, 1935, Serial No. 35,905
3 Claims. (Cl. 235—61.8)

2. In a multiplying machine, means for successively analyzing each of a group of cards including a plurality of record cards followed by a control card, multiplier and multiplicand receiving devices controlled by said analyzing means to receive factors from said record cards, multiplying means including a result receiving means controlled by said devices to compute the products of said factors, an accumulator, and transfer mechanism controlled by said result-receiving means for causing said accumulator to receive said products, punch controlling means arranged to be controlled by said accumulator in accordance with the amount therein, means normally preventing operation of said punch controlling means, further analyzing means operative to analyze said control card before it is analyzed by the first named analyzing means and means



controlled by said further analyzing means in response to the analysis of said control card for disabling said preventing means before said control card is analyzed by said first named analyzing means whereby said punch controlling means will be controlled by said accumulator.

2,161,593

BAND-PASS FILTER

Noël Meyer Rust, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware

Application March 26, 1936, Serial No. 70,928
In Great Britain March 29, 1935
4 Claims. (Cl. 178—44)

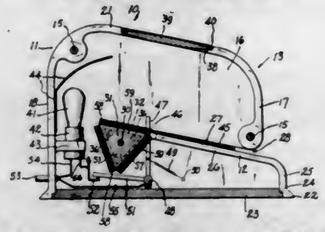
1. A band pass filter comprising a pair of main parallel-tuned circuits resonant to the mean frequency of the band to be passed and conductively connected at their low potential ends, and an impedance network connecting similar high potential points of said parallel-tuned circuits, such impedance network comprising an even number of series-connected resonant circuits, half of which are tuned above and the other half below the mean frequency of the band to be passed, the resonant frequencies of said latter circuits being symmetrical with respect to said mean frequency.

2,161,594

COUNTERFEIT MONEY DETECTOR

John H. Ruth, Brooklyn, N. Y.

Application January 5, 1939, Serial No. 249,415
3 Claims. (Cl. 88—14)



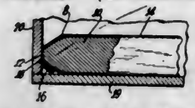
1. A device for detecting counterfeit bills, including a casing providing a chamber, a polygonal turntable rotatable about its horizontal axis and presenting on its different faces comparison indicia for bills of different denominations, the casing having means for supporting a bill in the chamber including slots along a plane that coincides with the plane of an upper face of the turntable, said slots extending along the front and side walls of the casing for the insertion of a bill whose ends project outside of said chamber, means for rotating the turntable, a source of light in the casing, and a magnifying lens on the casing embracing in its field of vision the upper face of the turntable and a portion of the chamber adjacent thereto for a direct comparison of the bill with said indicia, the slots in the side walls having tapered end portions for snugly clampingly engaging a bill inserted thereinto.

2,161,595

WRAPPER AND PACKAGED ARTICLE

Clarence B. Stiner, New York, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

Application August 12, 1936, Serial No. 95,518
5 Claims. (Cl. 131—11)



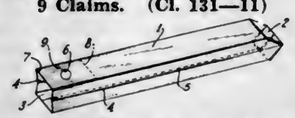
1. A package of the class described comprising, in combination, a container composed of an aroma-evolving material and having disposed therein one or more wrapped cigars, each cigar having an end cut to expose the filler and the wrappers therefor being perforated adjacent the cut end of the cigars to promote access of the evolved aroma to the filler.

2,161,596

WRAPPER AND PACKAGED ARTICLE

Clarence B. Stiner, New York, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

Original application August 12, 1936, Serial No. 95,518. Divided and this application September 20, 1937, Serial No. 164,622. In Canada August 3, 1937
9 Claims. (Cl. 131—11)



1. As an article of manufacture, a wrapped cigar comprising, in combination, a cigar having a tuck end and a wrapper enclosing the cigar and having a perforation extending through the wrapper adjacent the tuck end of the cigar.

2,161,597

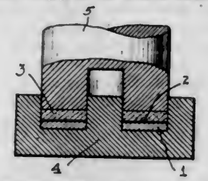
METHOD OF BONDING POWDERED METALLIC MATERIAL

Carl E. Swartz, Cleveland Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio

Application July 22, 1936, Serial No. 91,870
1 Claim. (Cl. 75—22)

A method of bonding a powdered metallic material to steel, comprising the steps of cleaning the surface of said steel, applying a covering layer of copper of a thickness less than one-tenthousandth of an inch to such surface and then subjecting such copper covered steel to compression and a temperature sufficient to sinter said powdered metallic material when placed in con-

tact therewith directly to the steel and to cause diffusion of the copper of such coating to permit



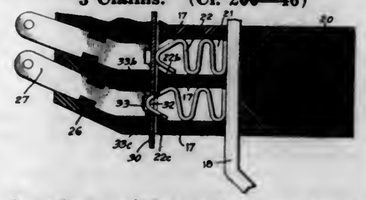
of direct bonding of the sintered material to the steel.

2,161,598

CARD SENSING DEVICE

Torkel Edwin Torkelson, Baldwin, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 23, 1936, Serial No. 117,282
3 Claims. (Cl. 200—46)



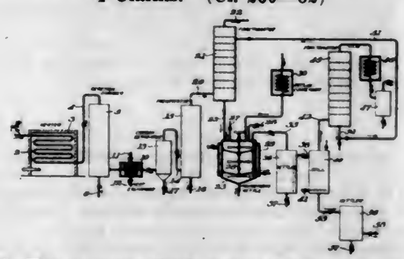
1. A contact making mechanism comprising an intermediate plate of insulating material formed in a comb-shape by a plurality of recesses formed at one extremity of said plate, spring contact making elements fitting in each of said recesses, and a plurality of plates of insulating material separate from said intermediate plate and positioned at each side of the intermediate plate for covering said recesses and having integral portions overlying part of the aforesaid recesses and engaging extremities of said spring contact making elements for confining the latter in said recesses.

2,161,599

PREPARATION OF SYNTHETIC RESINS

Charles C. Towne, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application August 14, 1933, Serial No. 684,988
4 Claims. (Cl. 260—82)



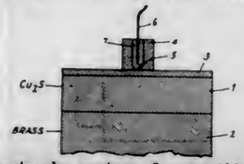
1. The process which comprises subjecting hydrocarbon gases of the class of natural and refinery gases to conversion conditions under temperatures sufficiently high to effect conversion thereof into liquid products containing considerable quantities of aromatic hydrocarbons, treating said liquid products with an anhydrous metallic halide polymerizing agent under such conditions as to produce a synthetic resin.

2,161,600

ELECTRODE SYSTEM FOR RECTIFYING OR CONTROLLING HIGH OR INTERMEDIATE FREQUENCY OSCILLATIONS

Willem Christiaan van Geel, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands

Application June 20, 1936, Serial No. 86,288
In Germany July 30, 1935
6 Claims. (Cl. 175—366)



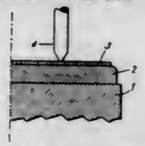
1. An electrode system for rectifying or controlling high or intermediate frequency electrical oscillations, comprising an electro-positive electrode of an alloy composed of at least bismuth, lead and tin and an electro-negative electrode of selenium, an insulating coating of polystyrene provided between the electrodes, and characterised in that at least one of the capacity determining parts of the system is formed with the aid of a mass in the liquid state in such a manner that the contact surface determining the electrostatic capacitance is limited to a surface not exceeding 10 mm.^{2}.

2,161,601

ELECTRODE SYSTEM

Willem Christiaan van Geel, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands

Application July 21, 1936, Serial No. 91,800
In Germany July 29, 1935
9 Claims. (Cl. 175—366)



1. An electrode system comprising, a metallic carrier, a layer of semi-conducting material formed on one face of the carrier, a metallic rod one end of which has a limited surface area which is a small fraction of the area of said face of the carrier, and a layer of insulating material interposed between and in contact with both of said end surfaces of the metallic rod and the semi-conducting material.

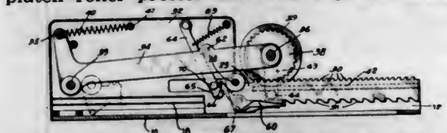
2,161,602

ADDRESS PLATE PRINTER

Edward J. Von Pein, Endicott, N. Y., assignor to American Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 23, 1936, Serial No. 117,264
6 Claims. (Cl. 101—281)

1. A machine for printing sales data specific to a customer on a sales slip comprising, a manually reciprocable carriage, means carried by said carriage for carrying an inking medium and detachably holding a printing plate and a sales slip to be imprinted which are manually positioned thereon, means for effecting a printing impression from said printing plate comprising a rotatable platen roller normally out of operative relation with said carriage to enable a free manual positioning of the sales slip and printing plate thereon, a driving means for said platen roller comprising means carried by the carriage and operated by the manual movement of said carriage for rotating said platen roller as said platen roller presses the sales slip and inking



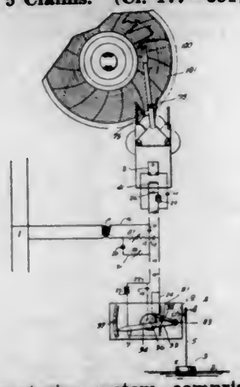
medium against type carriers of said printing plate, a frame carrying said platen roller, and means rendered effective by said carriage at the extremity of its movement for effecting the printing impression for holding said frame in elevated position to retain the platen roller out of cooperative relation with said sales slip during the return movement of said carriage.

2,161,603

TELEMETERING SYSTEM

Charles F. Wallace, Westfield, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Application November 23, 1935, Serial No. 51,307
Renewed October 19, 1938
5 Claims. (Cl. 177—351)



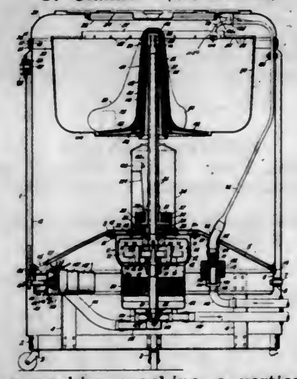
1. A telemetering system, comprising a transmitting apparatus and a receiving apparatus connected by a two-conductor line; means for supplying direct current to said line; the transmitting apparatus including an alternating current motor which operates in synchronism with the current by which it is driven and means driven thereby for variably controlling the direct current flowing over said line; the receiving apparatus including indicating mechanism, an alternating current motor which operates in synchronism with the current by which it is driven for driving the indicating mechanism, and means responsive to changes in the direct current in said line for controlling the operation of the indicating mechanism by its motor; and means for supplying alternating current to said line from a source distant from one of said apparatus; a choke and a low capacity condenser being provided at said apparatus distant from the source of alternating current for separating the direct and alternating currents, and the driving motor of said apparatus distant from the source of alternating current being operated by the alternating current flowing in said line and being a motor which operates on an alternating current with a power input not greatly in excess of one watt to enable a low capacity condenser to be used to filter out the direct current and thereby reduce to a minimum the time lag of the said means responsive to changes in the direct current, and the driving motor of the other apparatus being driven by current derived from said source of alternating current.

2,161,604

WASHING MACHINE

Noble H. Watts, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application April 6, 1935, Serial No. 15,060
17 Claims. (Cl. 68—23)



3. In a washing machine, a vertical shaft, a rotatable tub surrounding said shaft, an agitator in said tub connected to said shaft, means for oscillating said shaft, means for rotating said shaft, and a tubular sleeve having limited flexibility in a torsional direction for connecting said tub and said shaft, the flexibility of said sleeve permitting oscillation of the agitator in the tub when said shaft is oscillated for washing and said sleeve causing said tub to be rotated by said shaft when said shaft is rotated for extracting liquid from the material contained in the tub.

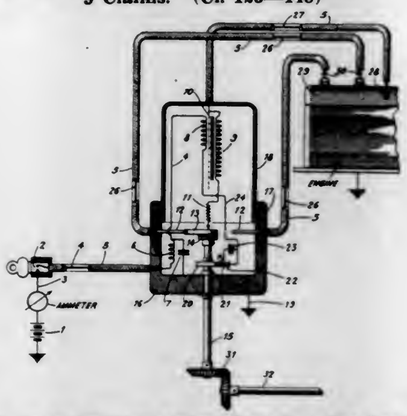
6. In a washing machine comprising a rotatable tub adapted to receive washing liquid and material to be washed, means for agitating the liquid and material in the tub for washing, means adding fresh liquid to the washing liquid in the tub at the completion of the washing operation without substantially disturbing the surface of the washing liquid for causing scum to overflow from the tub, means for rotating the tub to extract liquid from the material contained in the tub, and control means for causing the operations following washing to take place automatically in the order named.

9. A washing machine comprising a rotatable tub, an agitator in said tub, a shaft for driving said agitator, a power shaft having a sun gear connected thereto, a planet gear driven by said sun gear, means including a crank connected to said planet gear for driving said agitator shaft, a rotatable housing carrying said planet gear and having a braking surface thereon, a complementary braking surface, means for transmitting the weight of said tub and the contents thereof to said housing for forcing the braking surface on said housing against the complementary braking surface to prevent rotation of said housing, means including said crank for oscillating said agitator in said tub when said housing is stationary, means for reversing the direction of

rotation of said power shaft, means including an overrunning clutch between said power shaft and said housing for lifting said housing from said complementary braking surface during reversed rotation of said power shaft and for coupling said power shaft to said housing to cause rotation of said agitator shaft by said power shaft, and means for rotating said tub from said agitator shaft during rotation thereof.

16. In a washing machine having means for supplying liquid thereto, an automatic control for consecutively causing the supplying of liquid to the machine, the starting of the washing, and the stopping of the washing, comprising means for controlling the supply of liquid, timing means for controlling the time of washing, a manually operable control member for conditioning said liquid supplying means and said timing means for operation, and means responsive, both to the completion of the liquid supplying operation and the setting of the manually operable control member, for starting the operation of said timing means.

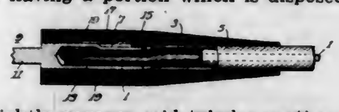
2,161,605
IGNITION SYSTEM
Jacob Yolles, Paris, France, assignor to Radio Corporation of America, a corporation of Delaware
Application March 13, 1935, Serial No. 10,790
5 Claims. (Cl. 123—148)



1. In an ignition system for an engine having spark plugs, the combination of a separable metallic shielding casing mounted adjacent the engine, an induction coil mounted in said casing and having primary and secondary windings, means connecting said secondary winding consecutively to the several spark plugs, a single impedance in said casing and connected in series with said secondary winding and having a sufficiently high value as to damp the flow of radio frequency currents in said winding, means mounted in said casing for making and breaking the current through said primary winding and a rotatable shaft journaled in the base of said casing and having a rotor portion within said casing for operating said last named means.

2,161,606
ELECTRICAL CONNECTOR
Gustaf E. Andre, Richmond, Ind., assignor to Belden Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 23, 1936, Serial No. 70,193
4 Claims. (Cl. 173—269)

1. In an electrical connector, a lead wire comprising a flexible conductor having a woven covering formed thereon, a plug type terminal having a contact portion and a hollow, tubular portion formed integral therewith, said hollow, tubular portion being adapted to receive one end of said conductor when said connector is assembled on said wire, means for electrically connecting said conductor to said terminal, and a strain relief for the electrical connection between said conductor and said terminal including a resilient sleeve having a portion which is disposed about



and tightly engages said tubular portion of said terminal and a portion which is disposed about and tightly engages a substantial length of said lead wire adjacent said terminal solely because of the inherent resilience of said sleeve, the end portion of said woven covering extending between said tubular portion of said terminal and said resilient sleeve, being cemented to said tubular portion, and being held in such position partly by said cement and partly by the forces exerted by said resilient sleeve.

2,161,607
NASAL FILTER DEVICE
Elmer W. Anderson, Leonia, N. J.
Application February 9, 1938, Serial No. 189,493
8 Claims. (Cl. 128—148)

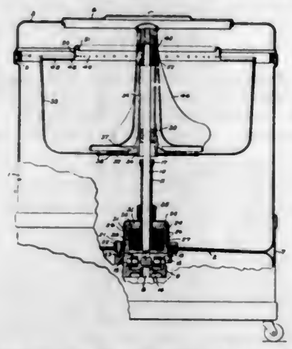


1. A nasal filter device comprising a rigid preformed U-shaped frame adapted to fit beneath the nose and adjacent region of the face of a user, clamps carried by the arms of said U-shaped frame, a filter cloth bridging said frame and secured thereto by said clamps, and a head encircling band connected to said frame for securing the device in position upon a wearer with a portion of said filter cloth overlying the entrance to the nostrils of the wearer's nose.

2,161,608
WASHING MACHINE
Herbert F. Bariffi, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application January 31, 1936, Serial No. 61,664
12 Claims. (Cl. 68—23)

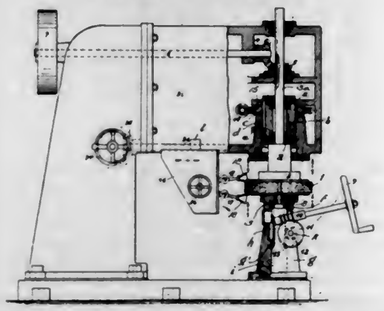
1. In a washing machine, a vertical shaft, a receptacle for receiving liquid and material to be washed, a thrust bearing for supporting said receptacle on said shaft in rotatable relation thereto, a guide bearing between said receptacle and said shaft, said bearings being spaced apart along the shaft sufficiently to prevent tilting of the receptacle with reference to the shaft, an agitator in said receptacle, a driving connection between the agitator and the shaft whereby the agitator

is oscillated in the receptacle upon oscillation of the shaft, a driving connection between the receptacle and the shaft whereby the receptacle is rotated to extract liquid from the material con-



tained therein upon rotation of the shaft, and means for resiliently supporting the shaft for gyratory movement during extracting whereby the receptacle may rotate about its center of mass.

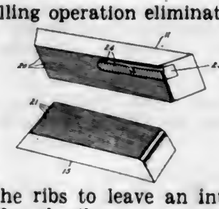
2,161,609
ARRANGEMENT FOR WORKING THE PERIPHERAL SURFACES OF GRINDING DISKS AND THE LIKE
Ewald Brinkmann, Villigst, near Schwerte, and Paul Arning, Iserlohn, Germany
Application December 12, 1936, Serial No. 115,506
In Germany December 18, 1935
7 Claims. (Cl. 125—11)



6. A machine for dressing grinding disks and like implements, comprising means for rotating such implement about its axis, a carriage movable toward and from said axis, two tool holders movable on said carriage in directions lengthwise of said axis, means for moving said tool holders simultaneously in opposite directions relatively to said carriage, and dressing tools carried by said holders.

2,161,610
METHOD AND APPARATUS FOR MAKING SELF-TAPPING SCREWS
Axel V. Boggild, Trumbull, Conn., assignor to General Electric Company, a corporation of New York
Application April 24, 1934, Serial No. 722,078
37 Claims. (Cl. 80—9)

1. In the art of rolling screws and the like ribbed fasteners, the step of rolling a plurality of ribs on a fastener body and as a continuation in the rib-rolling operation eliminating a portion



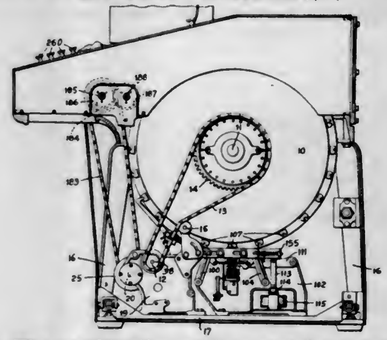
of each of the ribs to leave an interruption in the length of each rib.

2,161,611
FASTENER
Axel V. Boggild, Trumbull, Conn., assignor to General Electric Company, a corporation of New York
Original application April 24, 1934, Serial No. 722,078. Divided and this application December 14, 1937, Serial No. 179,713
18 Claims. (Cl. 85—47)



1. In an article of manufacture a screw having a rolled thread and rolled longitudinal grooves interrupting the threads.

2,161,612
CARD PUNCHING MACHINE
Samuel Brand, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 26, 1937, Serial No. 176,541
15 Claims. (Cl. 164—113)

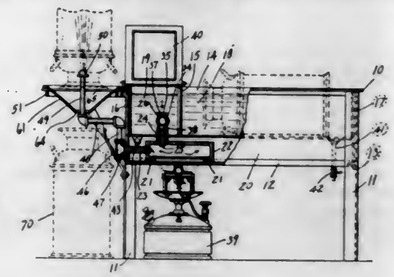


1. The combination with means for punching records to represent amounts of different classifications, of a sorting mechanism comprising sorting compartments, means comprising keys for selecting said sorting compartments, means for feeding the punched records into preselected sorting compartments, and means initiated in operation by the punched record for causing the operation of the feeding means for feeding the punched record to the preselected sorting compartment.

2,161,613
CAN WASHING APPARATUS
Fredrick W. Coffing, Danville, Ill.
Original application April 16, 1936, Serial No. 74,636. Divided and this application May 17, 1937, Serial No. 142,955
2 Claims. (Cl. 122—41)

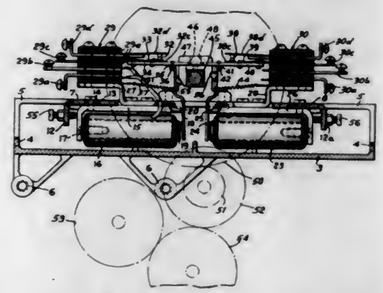
1. In a milk and cream can sterilizer the combination with a clean water chamber, a flash boiler

therebeneath, a heater therebeneath, and shield means for preheating water in the chamber in the generation of steam in the boiler, of a connection between the chamber and boiler for supplying heated clean water from the chamber to the boiler, and valve means in said connection and having its intake above the bottom of



chamber, said valve means including a casing having an intake and outlet, and a valve body therein with a constant volume chamber having means for alternate connection to the intake and outlet for the transfer of a fixed volume of water from the chamber to the boiler at each actuation of the valve.

2,161,614
ELECTRICAL DEVICE
James M. Cunningham, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 7, 1937, Serial No. 135,503
1 Claim. (Cl. 200—99)



In combination, a pair of switches extending oppositely and in substantial alignment, each switch comprising a pair of contact blades provided with contact points, the free end of the corresponding blades of the two switches overlapping and extending past each other, a pair of latches one for each of the switches to engage the overlapping blade of the switch to maintain the contact points in one relative position, each latch being disposed at an angle to the engaged blade, a pair of magnets one for controlling each latch to release the engaged blade of one switch so as to change the relative position of the contact points of the switch, a shaft between the pair of latches and below the overlapping ends of those blades which are engaged by the latches, and a polygonal cam upon the shaft, one corner of which simultaneously engages the overlapping ends of the latter blades to actuate them and diagonally opposite corners of which simultaneously engage the latches to restore them into latching position while the latter contact blades are being actuated.

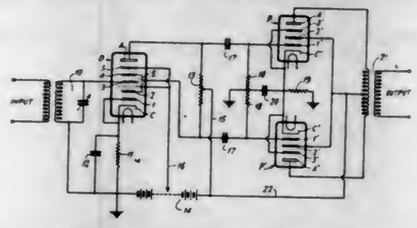
2,161,615
LUBRICANT
Melvin A. Dietrich, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 25, 1937, Serial No. 150,329
12 Claims. (Cl. 87—9)

1. A lubricant comprising a lubricating oil having incorporated therein a minor proportion of a compound having the formula

$$RHNCOR'$$
$$\|$$
$$O$$

wherein R is a member of the group consisting of hydrogen and hydrocarbon radicals, R' is a hydrocarbon radical, and wherein the total carbon content of R and R' is at least four carbon atoms.

2,161,616
RADIO RECEIVING SYSTEM
John F. Dreyer, Jr., Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 27, 1937, Serial No. 176,779
5 Claims. (Cl. 250—27)

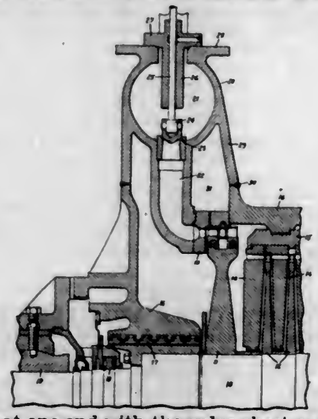


1. In a receiving circuit, the combination of a vacuum tube having a cathode, a signal control grid, a plate and an additional grid interposed between cathode and the signal grid, suitable potentials impressed on said electrodes whereby said control grid exhibits a negative transconductance to said additional grid and a positive transconductance to said plate, an auxiliary grid interposed between the signal grid and the additional grid for substantially equalizing said transconductances, an impedance connected between the plate and the additional grid for utilizing the effect of the substantially equal and opposite transconductances, a pair of push-pull tubes, and a resistance-capacity combination coupling the opposite ends of said impedance to the input electrodes of said push-pull tubes.

2,161,617
ELASTIC FLUID TURBINE ARRANGEMENT
John H. Doran, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1938, Serial No. 199,467
2 Claims. (Cl. 253—78)

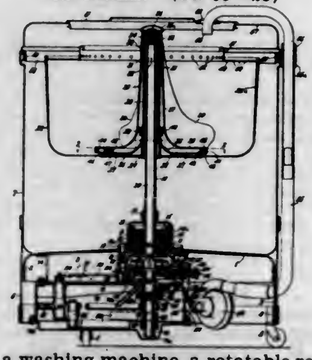
1. Elastic fluid turbine including the combination of a casing having an opening, a valve chest having a casing forming a valve chamber and channel means connecting the chamber to the first turbine stage, and means securing the valve

chest casing to said opening comprising a skirt entirely surrounding said channel means and



united at one end with the valve chest casing and at the other end with the turbine casing.

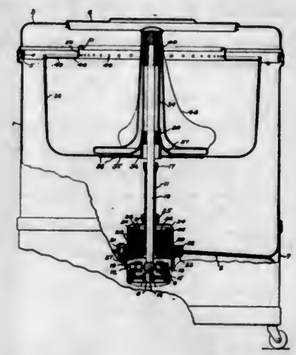
2,161,618
WASHING MACHINE
George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application April 2, 1935, Serial No. 14,255
Renewed January 10, 1939
32 Claims. (Cl. 68—23)



1. In a washing machine, a rotatable receptacle, driving means for rotating said receptacle to extract liquid from the material contained therein, means including a brake for retarding the rotation of said receptacle, and means controlled by said brake means for preventing rotation of said receptacle by said driving means until rotation of said receptacle has substantially stopped.

6. In a washing machine, a rotatable receptacle, means for rotating said receptacle to extract liquid from the material contained therein, means including a brake drum for retarding the rotation of said receptacle, a brake arm carrying a brake shoe, means moving said brake arm for initially moving said brake shoe into contact with the braking surface of said drum, means utilizing the torque due to the frictional force exerted on said brake shoe by said brake drum for further moving said brake shoe against said brake drum, and spring means for resisting this further movement of the brake shoe and for returning said brake shoe to the initial position when the frictional torque decreases to a predetermined value.

2,161,619
WASHING MACHINE
George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application January 31, 1936, Serial No. 61,635
Renewed January 10, 1939
25 Claims. (Cl. 68—23)



1. In a washing machine, a vertical shaft, a receptacle for receiving liquid and material to be washed, means for supporting said receptacle in rotatable relation to said shaft, an agitator in said receptacle,a driving connection between the shaft and the agitator whereby the agitator is oscillated in said receptacle for washing upon oscillation of said shaft, and a clutch between said shaft and said receptacle for rotating said receptacle upon rotation of said shaft, said clutch being responsive to a speed in excess of the speed of the shaft during washing.

8. In a washing machine, a tub, a vertical shaft extending upward from the bottom of the tub, a receptacle in the tub for receiving liquid and material, means for supporting said receptacle on said shaft in rotatable relation thereto, a driving connection between said receptacle and said shaft whereby said receptacle is rotated to extract liquid from the material contained therein upon rotation of the shaft, means including a sleeve surrounding said shaft, a self-aligning bearing between said shaft and said sleeve providing for gyratory movement therebetween, and means for resiliently supporting the sleeve for gyratory movement relative to the tub whereby said bearing supports the shaft for gyratory movement relative to the tub.

10. In a washing machine, a receptacle for receiving liquid and material to be washed, a vertical shaft, an agitator in said receptacle connected to said shaft, means for supporting said receptacle in rotatable relation to said shaft for rotation through an angle of greater than 360°, means for oscillating said shaft for washing, means for rotating said shaft at a relatively high speed, and a speed responsive clutch between said shaft and said receptacle conditioned for rotating said receptacle during the rotation of the shaft, said clutch being ineffective to move the receptacle during the oscillation of the shaft during washing.

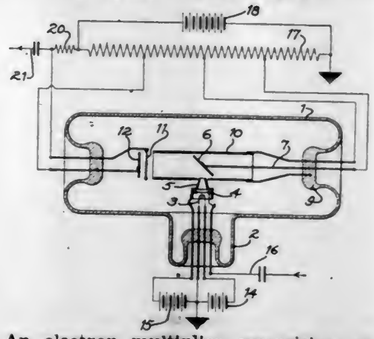
14. In a washing machine, a vertical shaft, a receptacle for receiving liquid and material, a clutch surface carried by said receptacle, a squared surface on said shaft, clutch shoes fitting against opposite corners of said squared surface, said shoes being adapted to be wedged against said clutch surface by said squared surface upon rotation of the shaft, and annular resilient

means around said shoes for holding said shoes against said squared surface until the shaft has attained a predetermined speed.

2,161,620
TWO-STAGE ELECTRON MULTIPLIER

Philo T. Farnsworth, Springfield Township, Montgomery County, Pa., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware

Application April 26, 1937, Serial No. 138,925
2 Claims. (Cl. 250—174)

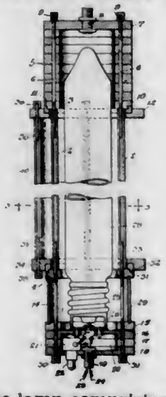


2. An electron multiplier comprising an envelope containing means for producing a beam of electrons, a hollow elongated conductor in the path of said beam and having an aperture for admitting electrons from said source, an electrode capable of emitting secondary electrons upon electron impact therewith positioned within said conductor in the path of electrons passing through said aperture, said electrode being positioned at substantially a 45° angle to the path of electrons entering said conductor and to the axis of said conductor, a secondary electron emissive electrode in the path of secondary electrons emitted from said first electrode, and an apertured electrode between said secondary emitting electrodes.

2,161,621
ELECTRIC LAMP

Manuel Diaz Fernández, Habana, Cuba

Application November 20, 1937, Serial No. 175,624
In Cuba January 14, 1937
3 Claims. (Cl. 240—11.2)



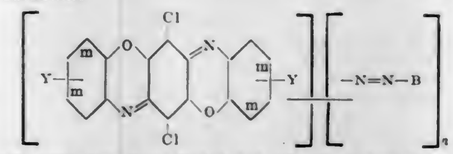
1. An electric lamp comprising a frame formed with a top ring, a bottom ring, a pair of spaced intermediate rings, all of said rings being of the same diameter, a plurality of rods extending through all of said rings, means acting on said rods and rings for connecting said rings to said rods, rotatable annular members arranged between the said intermediate rings, a plurality of tubes acting on said annular members for holding the annular members against said intermediate rings, a bolt extending through said tubes for clamping said annular members against said tubes for presenting a rotatable reflector frame, means secured to said rotatable frame acting as a reflector, means coacting with the first mentioned frame for forming a base, an electric bulb socket arranged in said base, and means for directing current to said socket, said means including a hand-actuated switch projecting below said base.

2,161,622
WATER-INSOLUBLE AZO DYESTUFFS

Josef Haller, Leverkusen-I. G. Werk, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 26, 1937, Serial No. 176,633. In Germany December 2, 1936
8 Claims. (Cl. 260—152)

1. Water-insoluble azodyestuffs of the general formula:



wherein the Y radicals are identical and stand for radicals selected from the group consisting of hydrogen, alkyl and alkoxy, B stands for the radical of an arylamide selected from the group consisting of arylamides of o-hydroxy-naphthoic acid, o-hydroxycarbazole carboxylic acid and acetoacetic acid, and n for one of the numbers 1 to 4, the —N=N—B groups being attached to the m-positions with respect to the azine-nitrogen atoms and the B radicals being identical if n is greater than 1, yielding, when produced on the fiber, in general blue to black shades of good fastness to light.

2,161,623
PRISM SYSTEM

Hans Hensoldt, Wetzlar, Germany

Application August 25, 1937, Serial No. 160,791
In Germany August 28, 1936
4 Claims. (Cl. 88—1)

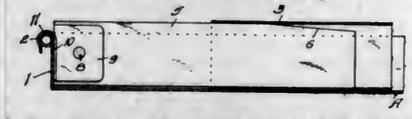


1. In a prism system, a prism having an entrance plano face perpendicular to the entering path of the ray of light, an exit plano face inclined to said entrance face and a single totally reflective face joining the upper end of the inclined face and one end of the entrance face, a second prism arranged in series with the first prism and having an inclined plano entrance face parallel with the inclined plano exit face of the first prism forming a plano layer of air therebetween, and having a continuing portion extending free of the exit face of the first prism and acting as a reflector, said second prism having an exit face at an acute angle with said inclined face extension, said last named exit face being parallel with the entrance face of the first prism, and perpendicular to the path of the ray of light passing through said exit face, the exit ray being on the line on the entrance ray, and said second prism having an inclined roof-shaped face acting as a reflector, whereby the entering ray is totally reflected once in the first prism and twice in the second prism, and the entering vision reversed in the same line of the path of the entering ray of light, the combination therewith of the disposition of the angular positions of the reflecting face of the first prism, and of the roof reflecting face of the second prism, in respect to the layer of air faces inclined to both the last named faces, so that the ray of reflected light from the first prism on passing through the exit face of the first prism and entering unreflected thereby through the adjacent entrance face of the second prism and likewise through the layer of air, meets the roof face at such an angle that said straight ray makes an angle of less than 90° with said plano parallel surfaces and with the plano layer of air therebetween, whereby the prism system is shortened and of less weight than those used heretofore.

2,161,624
DIVIDING WALL FOR PANS

Frederick G. Hoerr, St. Louis, Mo.

Application July 10, 1937, Serial No. 152,880
2 Claims. (Cl. 53—6)



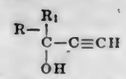
1. In a removable extension wall for baking pans having an upper rolled edge, in combination, a hollow sheet metal member having flat parallel side walls, said member being open at both ends, a pair of blade-like members having telescopic connection with the ends of said hollow member, the upper edge of each blade-like member being beveled at the inner end portion thereof, a pair of clamping devices each including an ear pivoted centrally thereof to opposite side walls of each blade-like member at the outer ends thereof a wing projecting at a right angle from each ear, and the wing of each ear terminating at its upper end in a hook for detachable connection with the rolled upper edge of the pan.

2,161,625
CHEMICAL PROCESS

Harold S. Holt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 14, 1938, Serial No. 184,969
11 Claims. (Cl. 196—13)

1. The method of treating a normally liquid hydrocarbon mixture containing relatively paraffinic and relatively non-paraffinic compounds which comprises extracting the hydrocarbon mixture with a solvent comprising an alcohol having the general formula:

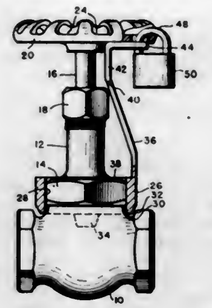


wherein R and R_1 are selected from the group consisting of hydrogen and hydrocarbon radicals, and wherein the total number of carbon atoms in R and R_1 is less than 7.

2,161,626
LOCKING DEVICE

Frank E. Loughner, Greensburg, Pa., and French H. Morehead, Riverside, Conn., assignors to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts

Application September 25, 1937, Serial No. 165,694
5 Claims. (Cl. 70—180)



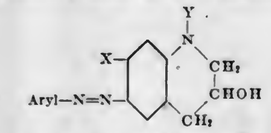
1. A locking device for valves provided with a valve casing having a separable polygonal portion and a projecting stem rotatable by a perforated handwheel for opening and closing said valve, comprising an annular member having a polygonal bore slidably but non-rotatably engaging the polygonal portion of said casing, a depending portion on said annular member adapted to engage the casing and prevent separation of the polygonal portion therefrom, a projection on said member adapted to assume a proximate relation with the handwheel when the valve is in open or closed position, and means on said projection having a perforation co-mating with a perforation on the handwheel through which a locking element may project.

2,161,627
AZO DYESTUFFS

Arthur Howard Knight, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application March 18, 1938, Serial No. 196,793. In Great Britain March 23, 1937
3 Claims. (Cl. 260—155)

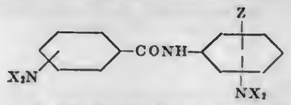
1. The sulfuric ester of the compound



in which aryl is a radical from the group consisting of para-nitro-amines of the benzene and naphthalene series free from water-solubilizing groups, X is one of the group consisting of hydrogen, halogen, and alkyl, and Y is one of the group consisting of alkyl and aralkyl.

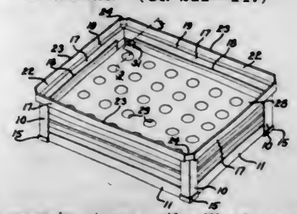
2,161,628
INTERMEDIATES FOR AZO DYES
Herman W. Mathieu and Swanie S. Rossander, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 23, 1937, Serial No. 149,890
8 Claims. (Cl. 260—558)

8. A compound free from water-solubilizing groups represented by the formula:



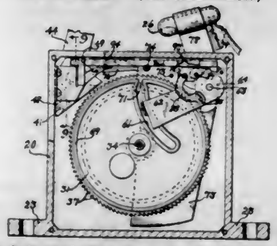
in which X is one of the group consisting of hydrogen and oxygen and Z is one of the group consisting of halogen, oxyacetic acid, alkyl and alkoxy, and alkoxy and alkoxy.

2,161,629
CARRYING TRAY
Herbert F. McCord, Pelham, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 2, 1938, Serial No. 193,472
6 Claims. (Cl. 211—147)



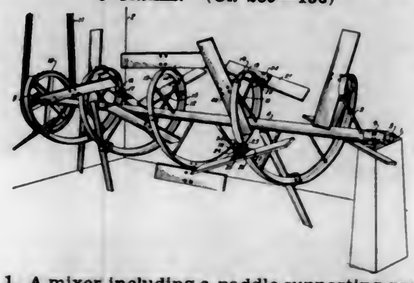
6. In a carrying tray or the like having groups of horizontally extending vertically spaced members and means for retaining the members in predetermined spaced relation, an article supporting shelf adapted to be entered in the tray, and spaced pivotal elements carried on the shelf, said elements normally disposed in vertical operative positions and cooperating at their ends with said spaced horizontal members for supporting and detachably securing the shelf within the tray, the pivotal elements adapted to be turned to a position wherein they lie parallel with the shelf for conserving space when the shelf is removed from the tray.

2,161,630
COUNTING DEVICE
Aloysius S. McDonnell, Chicago, Ill.
Application November 24, 1937, Serial No. 176,269
14 Claims. (Cl. 235—132)



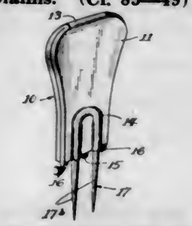
1. A predetermining counting device for counting the operations of a machine, comprising wheel means carrying channel means adapted to coincide upon completion of the predetermined count, operating means provided with elements for engaging and actuating said wheel means, trip means including finger means movable into said channel means upon completion of the predetermined count, means rendered operative by the operating trip means to release the elements from the wheel means, and means for placing the parts in a selected position.

2,161,631
MIXING APPARATUS
Charles T. McFarland, Kansas City, Mo., assignor to Municipal Service Company, Kansas City, Mo., a corporation of Missouri
Application November 26, 1937, Serial No. 176,475
6 Claims. (Cl. 259—136)



1. A mixer including a paddle supporting member in the form of a helix and having flanges arranged in circumferential and radial directions with respect to the axis of said helix, a plurality of elongated paddles, brackets fixed to the intermediate portions of the paddles, and means securing said brackets to selected flanges whereby some of the paddles are positioned tangentially and others radially with respect to the helix.

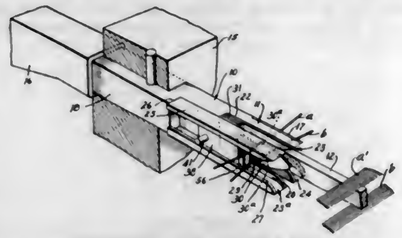
2,161,632
FASTENING DEVICE
Martin L. Nattenheimer, Chicago, Ill.
Application December 20, 1937, Serial No. 180,763
3 Claims. (Cl. 85—49)



1. A fastening device comprising two integrally formed opposed sections provided at their free ends with a plurality of sharp projecting members, said sections adapted to be folded one upon the other, one of said sections having a substantially U shaped recess adapted to receive a similarly shaped staple which is adapted to be secured between the free ends of said sections.

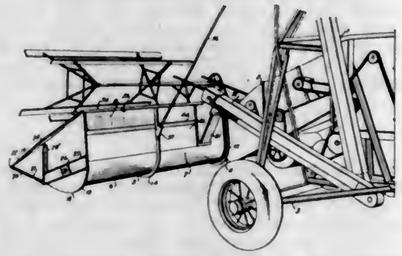
2,161,633
WARP-UNITING MACHINE
Martin N. Noling, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application July 21, 1937, Serial No. 154,786
17 Claims. (Cl. 28—49)

1. In a warp-tying machine, an elongated tube having an open end, a reciprocatory bar movable axially within said tube, a knotter operative to tie a pair of threads together and trim off the ends thereof, means for advancing to said knotter two threads to be united with the threads dis-



posed respectively on opposite sides of said bar, and means for actuating said bar to withdraw it from between the threads and, upon the severance of the threads by the knotter, into engagement with the waste ends thereof to carry them into the tube.

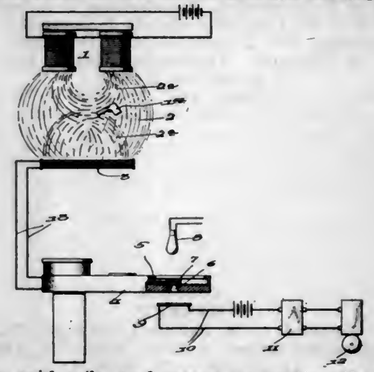
2,161,634
GRAIN PAN FOR HARVESTING MACHINES
Torvald N. Pierson, Independence, Mo., assignor to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware
Application August 19, 1937, Serial No. 159,921
7 Claims. (Cl. 56—153)



1. A harvester pan including a bottom section, an upper section cooperating with a portion of the bottom section to form a wind board, an inverted trough-shaped retarder extending longitudinally of the sections and one side connected with the bottom section, means connecting the retarder with the upper section, and a stiffening plate extending along the upper edge of the wind board and cooperating with the retarder for enhancing the rigidity of the pan.

2,161,635
STEEL AND IRON DETECTOR
Gustav Constantin Prokopenko, Shanghai, China, assignor to Everett Experimental and Development Co., Shanghai, China
Application March 24, 1931, Serial No. 524,928
13 Claims. (Cl. 177—311)

12. In an apparatus for detecting the movement of metals susceptible to electric attraction through a zone of detection, a plurality of coils positioned laterally of and at opposite sides of said zone of detection, means for maintaining a field therebetween and across said zone of detection generally transverse to the direction of movement of objects through said zone, a signal, and means to operate said signal in response to movement of such metals into or through the gap be-

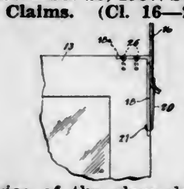


tween said coils, and means connecting the signal with one of said coils.

2,161,636
METHOD OF PROTECTIVELY COATING ALUMINUM OR ALUMINUM ALLOYS
William K. Rankin, Lansdowne, and Jacob R. Brossman, Yeadon, Pa., assignors to General Electric Company, a corporation of New York
No Drawing. Application October 21, 1936, Serial No. 106,894
3 Claims. (Cl. 204—1)

1. In the art of forming protective coatings on aluminum articles, the process of providing such article with a coating integral therewith and consisting of an initially porous layer of aluminum oxide impregnated with a dense mass of silica firmly united to said oxide, said process comprising removing surface impurities from such article, forming a coating of porous aluminum oxide integral with the surface of the cleaned article by anodic oxidation of the surface in an aqueous solution of oxalic acid, and introducing into and firmly uniting with the said oxide coating a dense mass of silica by anodically treating the oxide-coated article in an aqueous solution of sodium silicate in which the ratio of silica to sodium oxide is not less than about 2 to 1.

2,161,637
WINDOW CONSTRUCTION
Abner Raphael, Brooklyn, N. Y.
Application November 23, 1937, Serial No. 176,009
4 Claims. (Cl. 16—205)



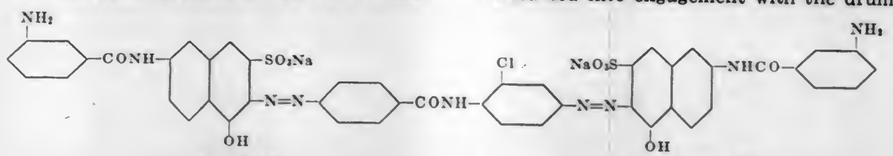
1. In a device of the class described, an inverted L-shaped bracket adapted to be engaged on the top corner of a cord or chain counterweighted window sash with the top arm removably secured to the top edge of the sash and the vertical arm extending along the side edge of the sash, said vertical arm having an opening near the bottom end, and a piece of wire bent at the center for clampingly engaging a cord or chain for the counterweight of the sash and having its end formed with hooks engaging said opening in the vertical arm.

2,161,638
AZO DYES

Swanie S. Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 3, 1937, Serial No. 151,963
1 Claim. (Cl. 260—178)

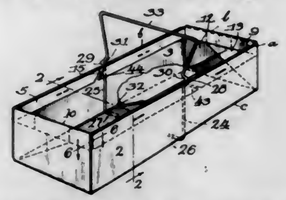
A compound represented by the formula:



2,161,639
BASKET

Edmund T. H. Schmidt, Chicago, Ill.

Application August 9, 1937, Serial No. 158,031
10 Claims. (Cl. 229—34)

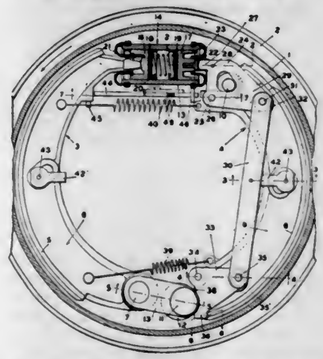


1. A basket folded into form from a single flat piece of fibre board cut to desired shape, comprising a bottom, side and end walls, an inturned flap along the upper edge of each of the side walls, said flaps each having an open ended slot formed intermediate its ends, and a handle having supporting connection with the basket and being positioned in said slots, said slots, being formed at an angle with relation to the vertical when the bottom of the basket is substantially in a horizontal plane.

2,161,640
BRAKING MECHANISM

Steve Schnell, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application March 11, 1937, Serial No. 130,267
17 Claims. (Cl. 188—152)

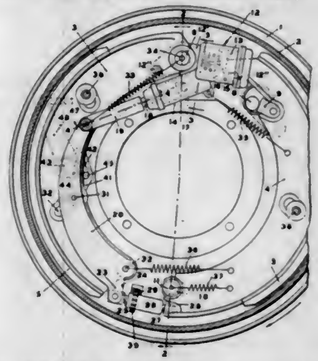


1. In braking mechanism, the combination of a support, a rotatable drum, a brake shoe adapted to cooperate with the drum, means on the support constituting an anchor for one end of the shoe when the drum is rotating in one direction, actuating means positioned adjacent said end of the shoe which anchors on the support, and mechanical force transmitting means carried in its entirety by the shoe and cooperating with the actuating means and with the remote end of the shoe whereby said remote end may be actuated into engagement with the drum.

2,161,641
BRAKING MECHANISM

Steve Schnell, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application August 14, 1937, Serial No. 159,053
25 Claims. (Cl. 188—152)



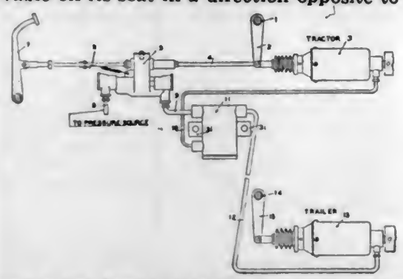
1. In braking mechanism, the combination of a support, a rotatable brake drum, two shoes positioned in end-to-end relation in the drum, anchors for the shoes, means for applying pressure to the leading ends of said shoes when the drum is rotating in one direction and for applying pressure to one pair of adjacent ends of the shoes when the drum is rotating in the opposite direction, said means comprising two inter-communicating fluid motors both of which are positioned remote from said pair of adjacent ends to which pressure is applied, one of said fluid motors being adapted to apply pressure to the adjacent end of one of the shoes, and means for applying pressure by the other motor to the said pair of adjacent ends.

2,161,642
DISTRIBUTING VALVE

Fred H. Stroup, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application April 10, 1937, Serial No. 136,033
2 Claims. (Cl. 277—45)

1. In valve mechanism, a member provided with two bores of different diameters forming a pair of chambers, the bore of smaller diameter being provided with an inlet and an outlet and the bore of larger diameter being provided with an outlet, a closure plug for the larger bore, means forming a valve seat on said member at the junction of said bores, a valve element cooperating with said seat and movable off the seat in a direction toward the plug, said valve element being provided with a passage and a valve seat thereon associated with the passage, a second valve element cooperating with the last named seat for controlling said passage and movable as a unit with the first named valve element when the latter is unseated, said second valve element being movable off its seat in a direction opposite to the

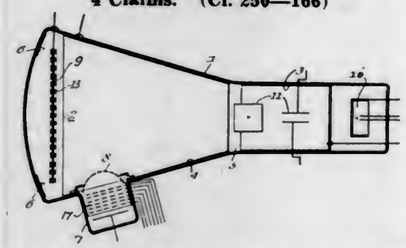


direction the first named valve element must be moved to be unseated, a light spring for biasing the second valve element on its seat, a relatively strong coil spring interposed between the first named valve element and the plug for biasing said valve element to closed position, and means carried by the plug for guiding the coil spring and also acting as a stop for limiting the extent of opening of the first named valve element.

2,161,643
TELEVISION PICTURE ANALYZER

Heinrich Strübig, Teltow, near Berlin, Gartenstadt Seehof, Germany, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany

Application April 21, 1937, Serial No. 138,235
In Germany May 9, 1936
4 Claims. (Cl. 250—166)

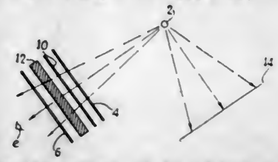


1. A television picture analyzer comprising an evacuated envelope having therein an electron gun, deflecting plates disposed about the undeflected ray axis of said gun and adapted to be energized by deflecting potentials, a screen disposed within said envelope opposite said gun, said screen comprising a conducting network having disposed therethrough and insulated therefrom a plurality of elements, said elements being sensitized for secondary emission upon the side thereof directed toward said electron gun and being sensitized for photo-emission on the side thereof directed away from said electron gun, an annular collecting electrode disposed upon said envelope wall upon the side of said photo-emissive elements away from said gun, a metallic conducting layer disposed inwardly upon the wall of said evacuated envelope between said secondarily emissive elements and said deflecting electrodes, a second wall coating disposed between said deflecting electrodes and said electron gun, and a projection formed in said envelope between said secondarily emissive elements and said deflecting electrodes and having therein an electron multiplying device adapted to operate by the collection of diffused electrons.

2,161,644
METHOD AND MEANS FOR MEASURING RADIANT ENERGY

Lodewijk Pieter Frans van der Grinten, Venlo, Netherlands, assignor to Naamlooze Vennootschap Chemische Fabriek L. van der Grinten, Venlo, Netherlands, a limited-liability company of the Netherlands

Application November 6, 1936, Serial No. 109,405
In the Netherlands April 9, 1936
19 Claims. (Cl. 250—83)

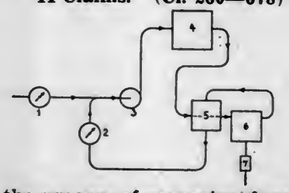


1. In the treatment of an object by radiant energy, the method of measuring the quantity of irradiation which comprises simultaneously exposing to irradiation the object and a diazo compound having the property of markedly absorbing certain rays of said irradiation and after having been acted upon by a certain amount of radiation of suddenly transmitting the said rays, and correlating the end of the exposure of said object with the beginning of the transmission of the said rays.

2,161,645
CATALYST FOR ACETYLENE REACTIONS AND A PROCESS OF PREPARING POLYMERIC COMPOUNDS OF ACETYLENE

Heinrich Vollmann and Bernhard Schacke, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application November 16, 1937, Serial No. 174,832
In Germany November 21, 1936
11 Claims. (Cl. 260—678)



1. In the process of preparing from acetylene hydrocarbons of higher molecular weight the step which comprises bringing the acetylene in contact with a molten, substantially anhydrous mixture comprising a cuprous salt, and at least one compound of the group consisting of salts of ammonia, aliphatic amines, hydroaromatic amines, and heterocyclic nitrogen bases.

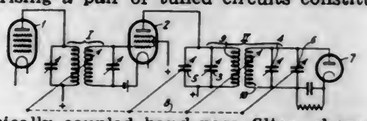
2,161,646
BAND-PASS FILTER WITH VARIABLE BAND WIDTH

Theodorus J. Weyers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands

Application June 4, 1937, Serial No. 146,411
In the Netherlands June 29, 1936
7 Claims. (Cl. 178—44)

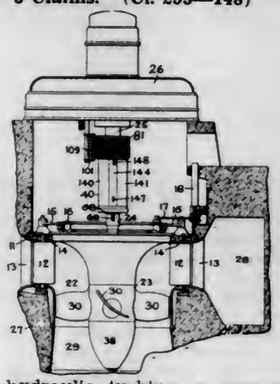
1. A radio receiving circuit arrangement com-

prising a plurality of band-pass filters capable of transmitting a variable band width, one filter consisting of two inductively coupled circuits which are hypercritically coupled at least for large values of the band width and which are tuned to the same frequency, and another filter comprising a pair of tuned circuits constituting



a critically coupled band-pass filter, characterized in that the natural frequency of the hypercritically coupled band-pass filter is so chosen that at least for maximum band width the middle of the frequency band transmitted thereby exactly coincides with the carrier frequency to be received.

2,161,647
HYDRAULIC MACHINE
Grant C. Whisler, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Application March 15, 1938, Serial No. 195,996
3 Claims. (Cl. 253—148)



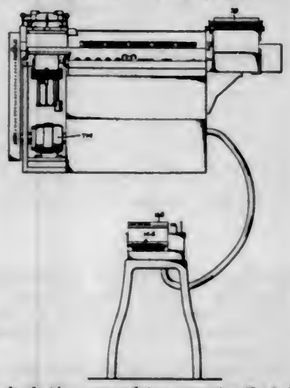
1. In a hydraulic turbine, a runner having blades movable into different angular positions, mechanism within the hub of the runner for adjusting the runner blades, a hollow runner shaft connected to the hub of the runner, a rod disposed within said shaft and operatively connected to the runner blade adjusting mechanism within the hub of the runner, a hollow casing secured to the upper end of said runner shaft and having two semi-cylindrical vertically divided sections detachably connected together, and mechanism disposed within said casing and mounted on only one of the sections thereof and operatively connected to said rod for operating said rod.

2,161,648
WEATHER STRIP
Charles H. Widman, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application August 16, 1937, Serial No. 159,204
3 Claims. (Cl. 296—44)



1. A resilient weatherstrip element adapted for securement to a sheet metal member having a series of apertures therealong, said element comprising a strip of resilient material having a wire reinforcing member extending longitudinally therealong and embedded therein said reenforcing wire having severed loops extending exteriorly thereof at intervals therealong serving to provide snap fasteners adapted for insertion into the apertures in said sheet metal member.

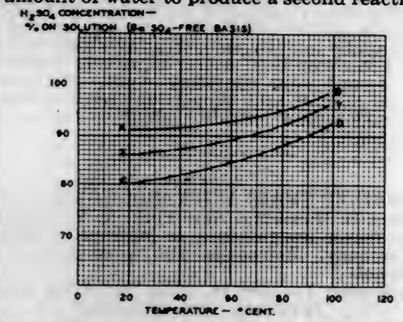
2,161,649
CARD SELECTING MACHINE
Joseph T. Wilson, Pitman, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application July 3, 1937, Serial No. 151,861. Divided and this application October 27, 1937, Serial No. 171,190
7 Claims. (Cl. 101—2)



7. A tabulating machine controlled by classified groups of tabulating cards and including therein a tabulating card controlled printing mechanism for printing upon records and a group control means for sensing a change in classification of the groups of tabulating cards, a separate machine including a classified file of said records, and interconnecting means between said machine including record selecting means in said separate machine and responsive to a change in the classification of groups of tabulating cards in the tabulating machine for selecting a single record from said file having a classification related to the classification of a group of tabulating cards.

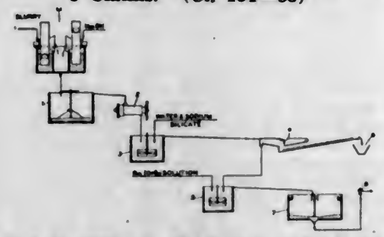
2,161,650
MANUFACTURE OF BARIUM SULPHATE
Lincoln T. Work and Hugh Alessandroni, New York, N. Y.
Application December 27, 1934, Serial No. 759,340
4 Claims. (Cl. 23—122)

1. In a process for manufacturing barium sulphate in finely divided solid form the particle size of which is controlled so that the sizes of the major portion of said particles lie within the range of sizes suited for use as pigments, the steps which comprise intimately contacting in a reaction zone at temperatures of substantially 50 centigrade degrees one part of finely ground barytes, essentially $BaSO_4$, with two parts of an aqueous solution of sulphuric acid containing substantially 93+% of H_2SO_4 to produce a reaction-product slurry comprising a solid-phase product, essentially $BaSO_4.H_2SO_4$ suspended in an aqueous solution of essentially sulphuric acid; then intimately contacting in a second reaction zone at temperatures of at least substantially 50 centigrade degrees said reaction-product slurry with an amount of water to produce a second reaction-



product slurry comprising a solid-phase product essentially $BaSO_4$ in finely divided form suspended in an aqueous solution of essentially sulphuric acid containing from 30 to 70% of H_2SO_4.

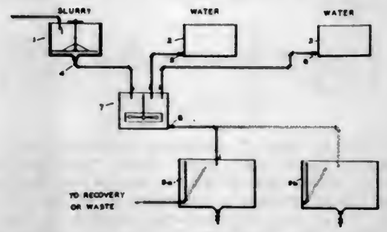
2,161,651
MANUFACTURE OF FINELY DIVIDED PRECIPITATES
Elliott J. Roberts, Westport, Conn., and Ralph W. Shafor, New York, N. Y.
Application December 27, 1934, Serial No. 759,374
3 Claims. (Cl. 134—58)



1. In a process for making precipitated barium sulfate from barite wherein there is formed a solid phase compound resulting from a reaction between sulfuric acid and barite said solid phase compound being essentially a compound of $BaSO_4$ and H_2SO_4 and suspended in a solution of H_2SO_4, which compound is then decomposed with water with consequent precipitation of barium sulfate, and the dilute sulfuric acid subsequently washed out with water, the steps of taking barite substantially free from organic matter as a raw material; deaggregating the precipitated barium sulfate at some stage of the washing process by subjecting the pulp to a high rate of shear; adding a dispersing agent and a quantity of water to the well washed precipitate and agitating to disperse the fine particles; classifying the material in said dispersed state in order to separate the fine barium sulfate particles from relatively coarse foreign matter and undecomposed barite which would make the product undesirable; flocculating the resulting suspension of fine barium sulfate particles, and separating the flocculated material from a quantity of the water present.

2,161,652
MANUFACTURE OF BARIUM SULPHATE
Elliott J. Roberts, Westport, Conn.
Application December 27, 1934, Serial No. 759,375
4 Claims. (Cl. 23—122)

1. In a process for making precipitated barium sulphate from a slurry or paste consisting essentially of an aqueous solution of sulphuric acid of high concentration and solid phase compound of $BaSO_4$ and H_2SO_4, the steps of mixing with said slurry, an aqueous diluent in an amount such that after the decomposition of the acid sulphate crystals is complete, the solution contains from



60 to 75% H_2SO_4, of maintaining the resultant slurry in a state of suspension for a period of time up to six hours until the desired particle size is obtained; and of mixing at the end of this period additional aqueous diluent with said slurry in an amount such that the solution contains less than 55% and more than 30% H_2SO_4.

2,161,653
APPARATUS AND METHOD OF PRODUCING VEGETABLE FIBER PRODUCTS
George H. Ellis, New Brighton, Minn., assignor to The Insulite Company, Minneapolis, Minn., a corporation of Minnesota
Application November 9, 1935, Serial No. 49,095
5 Claims. (Cl. 92—39)



5. A method of producing hard and stiff board-like products from vegetable fibers in a water suspension comprising forming a board-like body, removing the surplus water, passing the board along a rotatable walled pressing passage and applying approximately 1100° F. to one side and 500° F. to the opposite side near the receiving end of said passage and approximately 700° F. to one side and approximately 350° F. to the opposite side near the discharge end of the passage.

2,161,654
PROTECTED VEGETABLE FIBROUS MATERIAL AND METHOD OF MAKING THE SAME
George H. Ellis, New Brighton, Minn., assignor to The Insulite Company, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Original application February 17, 1936, Serial No. 64,376. Divided and this application August 19, 1936, Serial No. 96,821
6 Claims. (Cl. 92—21)

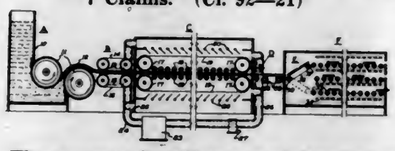
1. The method of producing water-resisting, insect and fungi toxic, felted, vegetable fiber products which includes the steps of mixing water soluble chlorinated phenol with rosin size, adding the mixture to vegetable fibers in a water bath, adding zinc chloride to insolubilize the phenol, and then adding alum.

2,161,655

METHOD OF MAKING HARD, DENSE, FIBROUS, BOARDLIKE PRODUCTS

George H. Ellis, New Brighton, Minn., assignor to The Insulite Company, Minneapolis, Minn., a corporation of Minnesota

Application October 30, 1936, Serial No. 108,372
7 Claims. (Cl. 92—21)



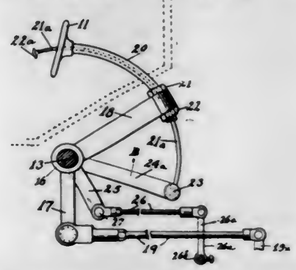
1. The process of making a grainless and high strength board-like body from raw, unbeaten ground wood fibers which comprises commingling fibers having a freeness of 40 to 80 with fibers in a water suspension having a freeness of 500 to 700, the fibers having a freeness of 40 to 80 persent within the range of 5% to 20%, forming a board-like body and simultaneously applying heat and pressure to produce a dense and hard board.

2,161,656

COMBINATION FOOT AND ACCELERATOR PEDAL

Thomas E. Hamson, Wichita, Kans.

Application September 14, 1936, Serial No. 100,703
3 Claims. (Cl. 192—3)



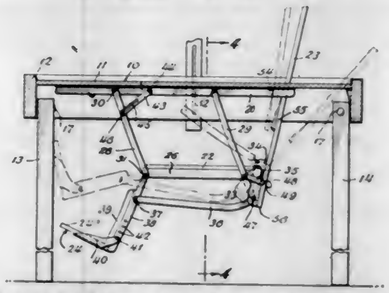
1. In a combination foot pedal and accelerator operating device, a supporting shaft, a hub element rigidly mounted on said shaft and rigidly carrying a lever arm and pedal thereon, a second hub element, said second hub element being supported by said supporting shaft and being revolvable around the center axis of said supporting shaft, a pair of lever arms, one end of which is rigidly positioned on the second said hub, the outer end of one of said lever arms on the second said hub having an operating rod pivotally attached thereto, the outer end of the second lever arm on the second said hub having a tubular curved pedal support rigidly carried thereon, said curved pedal support being in the form of an arc whose center is on the center axis of the said supporting shaft, a second foot pedal, said second foot pedal being mounted on the upper end of the tubular curved pedal support, a third hub element, said third hub element being supported by said supporting shaft and being revolvable therearound, a lever arm rigidly fixed on said third hub element, a curved push rod element, said push rod being in the form of an arc whose center is on the center axis of the said supporting shaft, said push rod being slidably carried in said tubular curved pedal support, the lower end of said push rod being pivotally connected to the outer end of the lever arm on the third said hub element, and means at the upper end of said push rod for sliding said push rod in said tubular curved pedal support to effect a rotary motion of the third said hub element, a second operating shaft, and means intermediate said second operating shaft and the third said hub element for imparting motion to the second said operating shaft, and spring means around said supporting shaft to return the said second operating shaft to its original position.

2,161,657

COMBINED CHAIR AND TABLE FOR INFANTS

George B. Hansburg, New York, N. Y., assignor, by mesne assignments, to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois

Application January 18, 1937, Serial No. 121,107
10 Claims. (Cl. 155—123)



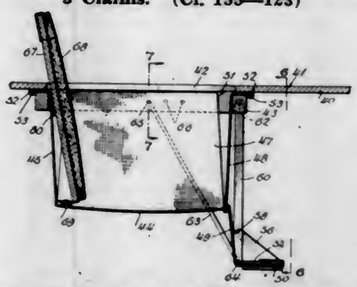
10. A table having an opening in the top, a seat below the opening, a back rest extending through and above the opening when the seat is in position for use, said back rest being of smaller extent than that of said opening and foldably connected to the seat, and means foldably connecting the seat to the table top, so that when the seat and the folded back rest are moved to folded position with respect to the table top the back rest may be positioned within the opening of the table top.

2,161,658

COMBINED STOOL AND TABLE

George B. Hansburg, New York, N. Y., assignor, by mesne assignments, to Metropolis Bending Company, Metropolis, Ill., a corporation of Illinois

Application January 30, 1937, Serial No. 123,138
3 Claims. (Cl. 155—123)



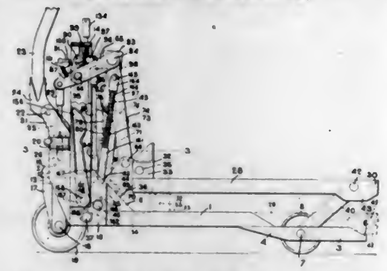
1. In combination, a table, an opening in the table top thereof, a bag type seat suspended by said table beneath said opening and a substantially rigid back rest extending from the bottom of said seat upwardly through said opening, and detachably connected to said seat.

2,161,659

SELECTIVELY OPERABLE MECHANICALLY AND FLUID ACTUATED LIFTING TRUCK

Frederick J. Shepard, Jr., West Newton, and Nathaniel Warshaw, Belmont, Mass., assignors to Lewis-Shepard Company, Watertown, Mass., a corporation of Massachusetts

Application October 24, 1936, Serial No. 107,422
22 Claims. (Cl. 254—10)



1. An elevating truck having upwardly movable load supporting means and means for raising the load supporting means comprising a fluid operated jack having a reservoir, a cylinder, a ram connected to said load supporting means and means for forcing fluid under pressure from said reservoir to said cylinder to raise the load supporting means step by step, and an auxiliary mechanically operable lifting mechanism, selectively operable means for actuating said mechanical lifting mechanism to raise the load supporting means, means for admitting fluid from said reservoir to said cylinder upon the raising of said load supporting means by said mechanically operable mechanism, and means for releasing the fluid from said cylinder to permit the load supporting means to descend.

15. An elevating truck comprising a main frame having a head, steering mechanism mounted in said head, side frames rigid with said head extending horizontally rearwardly therefrom and having rear end portions offset downwardly therefrom a distance substantially equal to the vertical depth thereof and having laterally extending upper surfaces to provide supports for said load supporting means, wheels having their axles journaled in said downwardly offset portions, thereby providing ample under-clearance for the truck, upwardly movable load supporting means having side frames substantially the same vertical depth as the rearwardly extending main side frames, and positioned to telescope over said main side frames and when lowered to rest upon said supporting surfaces of the offset portions of the main frame so that the horizontal planes of the upper edges of the main side frames and those of the load supporting means will substantially coincide when the load supporting means is in lowered position.

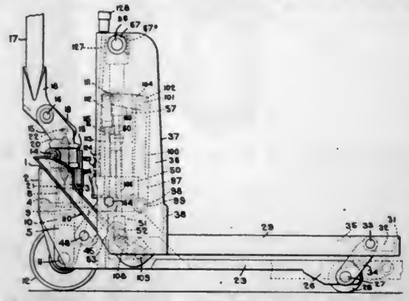
2,161,660

ELEVATING TRUCK HAVING PEDAL OPERATED FLUID ACTUATED LIFTING MECHANISM

Frederick J. Shepard, Jr., West Newton, and Nathaniel Warshaw, Belmont, Mass., assignors to Lewis-Shepard Company, Watertown, Mass., a corporation of Massachusetts

Application October 24, 1936, Serial No. 107,423
10 Claims. (Cl. 254—10)

1. An all steel elevating truck having a wheel-supported integral main frame comprising a horizontal hollow rectangular head having pairs of downwardly extending flanges providing between the inner flanges a space for the steering mechanism, steering mechanism mounted in said head, side frames formed of pairs of parallel bars integrally connected to the respective downwardly extending flanges of said head and extending rearwardly therefrom, wheels mounted between the rear ends of the respective pairs of side bars,



load supporting means having parallel pairs of side bars arranged telescopically to fit over and lie no higher than the side bars of the main frame when the load supporting means is in lowered position mounted by parallel links upon said main frame, and means for raising said load supporting means upwardly relatively to said main frame.

2,161,661

HOLDING OR LOCKING DEVICE

Charles A. Arens, Chicago, Ill.

Application July 17, 1936, Serial No. 91,037
12 Claims. (Cl. 74—531)



1. In a control mechanism, a fixed housing sleeve, a movable control linkage having an operating sleeve slidable within the housing sleeve, said operating sleeve having an opening therein, a friction block arranged within said opening, a ball engageable with the block, an elongated control member arranged within the operating sleeve, said control member having a cam surface engageable with the ball, resilient means for urging the control member longitudinally within the operating sleeve whereby to cause said cam surface to urge the ball into engagement with the friction block and the block into engagement with the housing sleeve and to cause the control member to react against the operating sleeve, whereby to lock the operating sleeve in position relative to the housing sleeve.

2,161,662

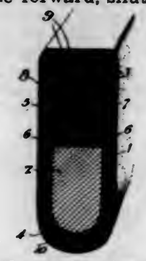
LOOM PICKER

Henry M. Bacon, Dayton, Ohio, assignor to The Dayton Rubber Mfg. Company, Dayton, Ohio, a corporation of Ohio

Application February 23, 1938, Serial No. 192,115
15 Claims. (Cl. 139—159)

1. A loom picker having a hole to receive the picker stick and comprising a filler block disposed between the forward face of the picker and the picker stick hole, a rubberized fabric wrapping folded around said filler block and forming the forward wall of the picker stick hole, and a multiple rubberized fabric wrapping forming the other walls of the picker stick hole and defining a loop

surrounding the said filler block and its wrapping and forming the forward, shuttle impact portion



of the picker, the picker being vulcanized and molded to shape.

2,161,663

REMOVAL OF HYDROGEN SULPHIDE AND HYDROCYANIC ACID AND OF READILY VOLATILE LIQUIDS FROM GASES

Hans Baehr and Wilhelm Wenzel, Leuna, and Helmut Mengdehl, Huels, Westphalia, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application October 28, 1936, Serial No. 108,010. In Germany December 20, 1933

8 Claims. (Cl. 23—3)

1. The process of removing a weak gaseous acid, selected from the group consisting of hydrogen sulphide and hydrocyanic acid and mixtures thereof, and the vapors of a readily volatile organic liquid from a gas containing the same without removing any substantial amount of carbon dioxide contained in said gas mixture, which process comprises washing said gas with a dispersion, in a high-boiling organic solvent for said readily volatile liquid, of a difficultly volatile organic basic compound capable of combining with said weak gaseous acid at the operating temperature and giving it off on heating, heating the dispersion when charged with substances absorbed from said gas, thereby expelling hydrogen sulphide and said readily volatile liquids in the gaseous state, withdrawing the expelled substances in the gaseous state from said dispersion, and condensing said readily volatile liquids from said expelled substances.

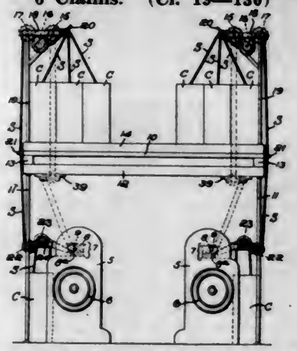
2,161,664

FEED SUPPLY FOR DRAFTING FRAMES

Nelson Allen Batchelder, West Barrington, R. I.

Application November 13, 1937, Serial No. 174,389

6 Claims. (Cl. 19—130)



1. In apparatus for drafting fibrous textile material supplied in sliver form, in combination with a roll frame having a set of drafting rolls including a plurality of upper and lower rolls in paired relation, a platform overlying the frame at a level affording standing room for operatives beneath it and adapted to support one or more rows of sliver supply cans lengthwise the roll frame, a plurality of guide rolls rotatably mounted above the platform in position to take the individual slivers from cans on the platform and to direct them downwardly, other guide rolls adjacent the roll frame and adapted to receive and forward the slivers to the drafting rolls, and drive means for all said guide rolls for rotating them in timed relation with the back pair of drafting rolls.

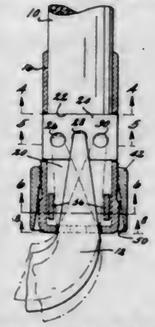
2,161,665

TOOL MOUNTING

Joe B. Bradshaw, Stanford, Ky.

Application April 26, 1938, Serial No. 204,371

8 Claims. (Cl. 306—1.3)



2. The combination with a scythe snath and a blade having a tanged shank thereon, of a shell surrounding the end of the snath to protect it from the weather, and having an end aperture for reception of the blade shank, means adapted to anchor the blade shank in a selected position within the shell, said shank being disposed between the shell wall and the anchor means, a cam member operable through an opening in the shell for pressing against the blade shank in the anchored position, and means without the shell for actuating the cam member and comprising a sleeve threaded upon the shell, and having a cam surface engageable with the cam member.

2,161,666

WEATHER STRIPPING

Rawson R. Cowen, Taunton, Mass., assignor to New Jersey Rubber Company, Taunton, Mass., a corporation of Massachusetts

Application August 13, 1937, Serial No. 158,935

2 Claims. (Cl. 20—69)



1. Weather stripping for the doors and trunk lids of automobiles, or the like, consisting of compressible, resilient, rubber tubing comprising an inner tube, an outer tube, and spaced radial webs connecting the two tubes and holding them in spaced relation.

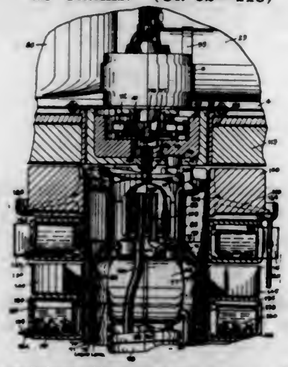
2,161,667

REFRIGERATING UNIT

Philip W. Des Roches, Detroit, Mich.

Refiled for abandoned application Serial No. 461,012, June 13, 1930. This application December 18, 1936, Serial No. 116,727

23 Claims. (Cl. 62—115)



5. In a refrigerating system, evaporative chamber of the refrigerating system having substantially coaxial walls and forming an annular chamber and free passageway of heat transferring medium over the inner and outer walls, walls formed to produce a large cross-sectional area in the upper end of the chamber, means located in the portion of the chamber having the smaller cross-sectional area for directing streams of liquid and gas upward and for collecting liquid and directing it downward, and directing the liquid laterally to the upwardly moving streams of liquid and gas.

2,161,668

CLIP ASSEMBLY

John Fielding, North Providence, R. I.; Union Trust Company, executors of said John Fielding, deceased; said Fielding and said executors assignors to Joseph P. Whitaker, Apponaug, R. I.

Application February 20, 1937, Serial No. 126,879

15 Claims. (Cl. 63—20)



1. A clip assembly comprising a base member having a contacting surface and rigid undercut portions extending above its surface, a pair of clips, each having a back jaw with cut away portions adapted to lie substantially flat on the surface of said base with parts adjacent said undercut portions adapted to be slid beneath said undercut portions upon a relative movement of said jaws toward each other and with respect to said base.

2,161,669

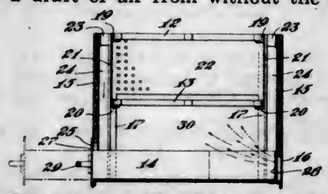
BROILER

Deane M. Freeman, Providence, R. I.

Application June 2, 1937, Serial No. 146,003

11 Claims. (Cl. 126—29)

2. A broiler comprising a housing, a fire box defined by an upper grate, a lower grate, and a wall enclosing the space between the grates, said wall being removably positioned within the housing and spaced from the wall of the housing to provide a channel and said upper grate being supported by said fire box wall, and a compartment in said housing below said fire box, the fuel in the fire box resting on the lower grate and the food to be broiled resting on the upper grate, and said parts being so located and arranged that the ignition of the fuel in the fire box will set up a draft of air from without the housing



which flows downwardly through said channel into said compartment and upwardly through the fuel in the fire box, said housing walls having holes therein leading directly into said compartment, and means for opening or closing said holes whereby, when desired, a supplementary draft can be set up in the housing by opening said holes.

2,161,670

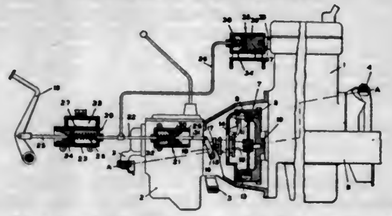
CLUTCH CHATTER ELIMINATOR

Walter R. Freeman, University City, and Werner F. Boldt, Overland, Mo., assignors to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application August 12, 1937, Serial No. 158,626

Renewed April 26, 1939

12 Claims. (Cl. 180—64)



1. In a motor vehicle, a support, an engine resiliently mounted on said support and subject to vibrations during its operation, a clutch associated with the engine, actuating means for the clutch, and means operable by said clutch actuating means for damping the engine vibrations.

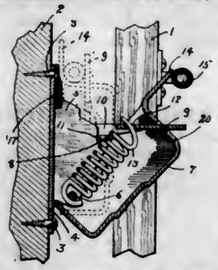
2,161,671

DOOR CATCH

Hiram Benjamin Gallinger, Superior, Wis.

Application June 14, 1937, Serial No. 148,138

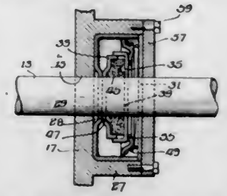
10 Claims. (Cl. 292—78)



2. A door catch comprising a channel shaped bracket portion, a housing pivoted adjacent one

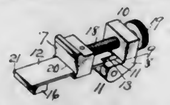
end to said bracket portion and having an opening through one end, a trigger pivotally held at one end intermediate the other end of said housing and bracket and having a finger projecting through said opening, and means for biasing the trigger and housing toward the limit of movement in either direction.

2,161,672
SEAL FOR ROTATING SHAFTS
George P. Gilman, Chicago, Ill., assignor to Rotary Seal Co., Chicago, Ill., a corporation of Illinois
Application September 28, 1936, Serial No. 102,877
4 Claims. (Cl. 286—7)



1. A seal for rotating shafts comprising sheet metal means embossed to form an annular seat, a cooperating pair of cup-shaped members forming an expansible housing, at least one of said cup-shaped members being of sheet metal and having an embossment forming an annular bearing adapted to engage said seat, packing material within said expansible housing, and resilient means operatively associated with said housing to urge the same toward said seat whereby said bearing may form a running fit on said seat, said resilient means operating also to compress the cup-shaped members whereby to squeeze the packing material therebetween.

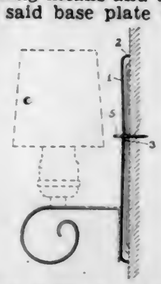
2,161,673
DOOR FASTENER
Grant Hammond, New Haven, Conn.
Application March 25, 1937, Serial No. 132,960
5 Claims. (Cl. 292—294)



1. A door fastener including a base, a support forming a part of said base, a locking blade pivotally attached to the base and having a locking lug to enter a recess in a door frame, a locking block mounted for sliding movement along said blade, and means engaged with said support and with said block for moving the latter into locked position against the face of a door and for moving it oppositely to disengage it from said door.

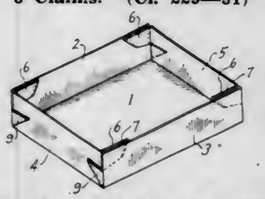
2,161,674
BASE FOR FIXTURES
William C. Heindl, Rochester, N. Y.
Application November 2, 1937, Serial No. 172,408
2 Claims. (Cl. 248—300)

1. A non-slipping base for fixtures adapted to be mounted on a wall and comprising a flexible base plate, anchoring means substantially centrally of said base plate for the suspension thereof, spacing means at the back of said base plate so as to yieldably support said base plate on the wall, and an anchoring member adapted to engage said anchoring means and the wall so as to concavedly flex said base plate and transmit a



yielding anchoring pressure to the spacing means for maximum frictional contact with the wall.

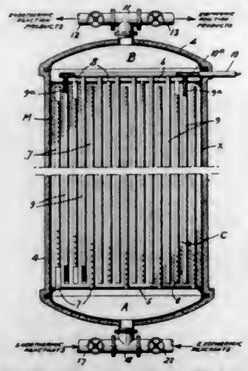
2,161,675
FOLDING BOX
Roderick W. Hoag, Melrose, Mass.
Application October 16, 1936, Serial No. 105,981
3 Claims. (Cl. 229—31)



1. A folding box made from a creased and cut blank comprising a bottom, upright front and rear walls and a pair of end walls, a connection at each corner of the box integral with the upper portion of the end edge of the end wall and the adjacent end edge of the corresponding front or rear wall, the said connection being folded against the outside surface of the corresponding front or rear wall and being secured thereto, a bellows fold connection at each corner of the box integral with the lower portion of the end edge of the end wall and the adjacent end edge of the corresponding front or rear wall, said bellows fold connection being folded against the inside surface of the corresponding end wall and being secured thereto.

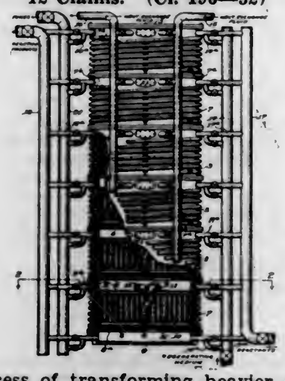
2,161,676
CATALYTIC OPERATION
Eugene J. Houdry, Rosemont, Pa., assignor to Houdry Process Corporation, Dover, Del., a corporation of Delaware
Application November 8, 1935, Serial No. 48,870
3 Claims. (Cl. 196—52)

2. In processes for utilizing a converter containing an adsorptive catalytic mass alternately for the endothermic conversion of carbonaceous fluids which leave combustible contaminants on or within the mass and for regeneration of the mass in place by combustion of such contaminants, the steps of maintaining the converter and catalytic mass within a predetermined temperature range of not more than 150° F. which is mainly below 950° F. during both conversion and regeneration periods, during the conversion periods passing heated fluid reactants into said converter and into contact with said catalytic mass, said fluid reactants being heated so as to avoid thermal cracking prior to introduction into said converter to such temperature adjacent the lower end of said range that the catalytic mass and converter substantially supply the endothermic heat of reaction and their temperatures fall within the aforesaid range, during each alternate exothermic regeneration period passing a regenerating medium into said converter and into contact with said mass so as to burn away combustible deposits and to cause the temperatures of said converter and of said mass to rise within the aforesaid range, and limiting the duration of the conversion periods so as to control the combustible contami-



nants deposited on or within said mass to an amount, which when burned during said regeneration periods, will produce enough heat to raise the temperatures of said mass within the aforesaid range, this amount of said deposit being of the order of 1% by weight of the mass, thereby to provide a cyclic catalytic operation in which temperatures of the catalytic mass increase during one period of the cycle and decrease during the other period thereof.

2,161,677
CATALYSIS
Eugène J. Houdry, Haverford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application August 5, 1937, Serial No. 157,475
12 Claims. (Cl. 196—52)



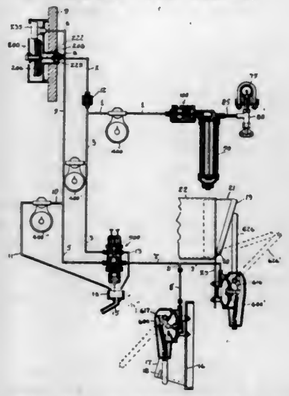
5. Process of transforming heavier or higher boiling hydrocarbons to produce gasoline of high quality which comprises sending the higher boiling hydrocarbons in vapor phase and under reaction conditions into and through a bed of siliceous material of high activity and selective adsorptive properties and capable of promoting the desired reaction, the path of movement of the vaporized charge through said bed being at least one foot in length and not in excess of fifteen feet, maintaining an apparent velocity of vapors entering said bed of at least ⅔ inch per second and not exceeding 60 inches per second, stopping the operation before the deposit of carbonaceous and other poisonous material on the catalyst exceeds 15 grams per liter of catalyst, and preventing a drop of temperature in the contact material by adding heat to the latter through heat conducting surfaces at not more than one inch from every part of the contact material.

6. Process of producing a high yield of high quality gasoline from heavier hydrocarbons which comprises subjecting the charge under reaction conditions to the action of at least a two foot depth but not exceeding a fifteen foot depth of silicious contact material of high activity and capable of promoting the desired reaction, and sending only a limited quantity of the charge through the contact material and within a limited period, the quantity being not in excess of 50% (liquid measure) of the volume of the contact material and the period being not in excess of 20 minutes.

2,161,678
LUBRICATING COMPOSITION
Kenneth H. Klipstein, Short Hills, N. J., assignor to Calco Chemical Co., Inc., Bound Brook, N. J., a corporation of Delaware
No Drawing. Application December 22, 1936, Serial No. 117,147
8 Claims. (Cl. 87—9)

1. A lubricating composition comprising a mineral lubricating oil and a small amount of a halogenated polyarylalkyl in which halogen is attached to the alkyl group.

2,161,679
HEAT CONTROL SYSTEM
Otto J. Kuenhold, Shaker Heights, Ohio, assignor to Monmouth Products Company, Cleveland, Ohio, a corporation of Ohio
Application May 15, 1935, Serial No. 21,576
11 Claims. (Cl. 236—9)



3. In a heat control system, the combination of a pressure actuated means for controlling the rate of heat output of a heat source, a thermostatically actuated valve located in the space to be heated and having an inlet and an outlet, a fluid conduit connecting said outlet to said pressure actuated means, a second conduit for supplying fluid under constant pressure to said in-

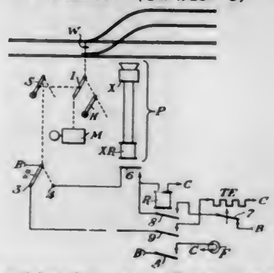
let, and a second thermostatically actuated valve located at the source of heat and connecting said first-named conduit to the atmosphere, said second valve being adapted to exhaust fluid therefrom at a predetermined minimum temperature.

2,161,680
BUILDING BLOCK CONSTRUCTION
Jay Leland Myer, Leola, Pa.
Application April 10, 1936, Serial No. 73,617
10 Claims. (Cl. 72—66)



1. A block of the type described comprising a web having a plane surface, hollow cored cells on one side thereof and each having said web as a wall thereof, said cells having plane surfaces substantially parallel to the aforesaid plane surface, the said surfaces of intermediate cells being spaced further from said plane surface than the said surfaces of end cells.

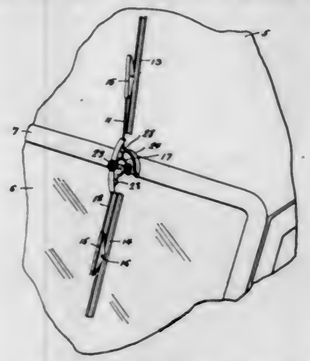
2,161,681
LIGHTING CONTROL APPARATUS
George R. Pflasterer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 16, 1937, Serial No. 131,141
5 Claims. (Cl. 246—3)



1. In combination, a railway track switch, means for conditioning the switch for power operation or manual operation, a floodlight for illuminating the switch and the area adjacent the switch, a control relay effective when picked up to energize said floodlight, means effective if the amount of daylight is below a predetermined value to pick up said conrol relay when said switch is conditioned for manual operation, a slow pick-up relay, means including a back contact of said slow pick-up relay for maintaining said control relay in its picked up condition, and means effective when said control relay is picked up and said switch is in condition for power operation to energize said slow pick-up relay.

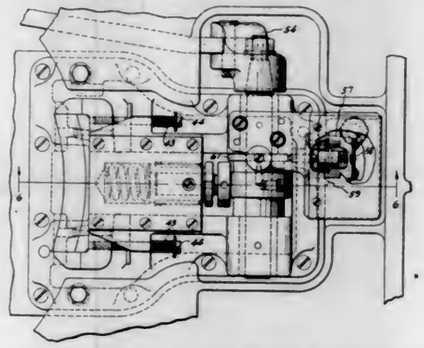
2,161,682
WINDSHIELD WIPER
Colman P. Rogers, Santa Barbara, Calif.
Application August 6, 1937, Serial No. 157,790
1 Claim. (Cl. 15—250)

In combination with a windshield frame, a rotary shaft disposed through one side portion of the frame, a windshield wiper having an arm swingably secured to the shaft and adapted for engagement with the glass of the windshield, spring means for urging the wiper against the windshield, and a track on the frame partly surrounding the shaft and against which the wiper



arm can ride and be supported as it swings off of the windshield.

2,161,683
BRAKE FOR A DIE SINKING MACHINE
John M. Rusnak, West Hartford, Conn., assignor to Niles-Bement-Pond Company, Hartford, Conn., a corporation of New Jersey
Application October 12, 1937, Serial No. 168,634
6 Claims. (Cl. 188—74)

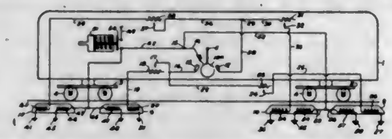


1. A spindle brake for machine tools comprising in combination, a spindle, a driving pulley therefor, a brake shoe movable into and out of contact with said pulley, a cam adjacent said shoe, means to oscillate said cam, an actuating member for said shoe, and a spring housed within said shoe and disposed between said actuating member and cam, whereby oscillation of said cam in one direction compresses said spring and forces said shoe against said pulley.

2,161,684
MAGNETIC TRACK BRAKE
Theodore H. Schoepf and David M. Ritchie, Cincinnati, Ohio, assignors to The Cincinnati Traction Building Co., Cincinnati, Ohio, a corporation of Ohio
Application January 14, 1935, Serial No. 1,602
14 Claims. (Cl. 188—165)

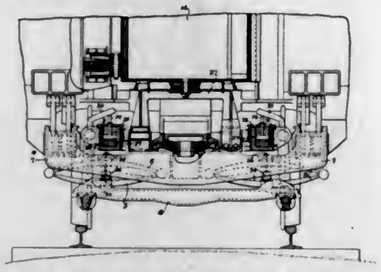
1. In a magnetic track brake system, a magnetic track brake, dual means for energizing said brake, means for normally energizing one of

said means, and momentum responsive means depending upon the deceleration of the car to



which the brake is attached for energizing the other of said energizing means.

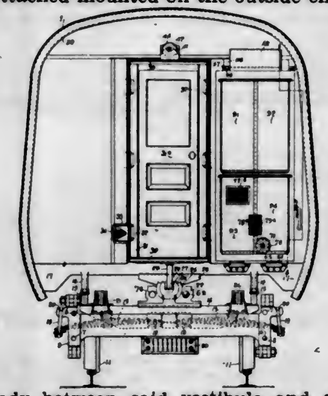
2,161,685
APPARATUS FOR SHOCK ABSORBERS FOR ARTICULATED TRUNNIONS
Theodore H. Schoepf and David M. Ritchie, Cincinnati, Ohio, assignors to The Cincinnati Traction Building Company, Cincinnati, Ohio, a corporation of Ohio
Application March 5, 1935, Serial No. 9,490
2 Claims. (Cl. 105—3)



1. In a railway train, the combination with two car bodies, a truck common to both bodies, and an articulated connection between the car bodies and the truck, such articulation comprising trunnions carried by the car bodies and a socket plate carried by a bolster on the truck; of a spring plank carried by the truck, leaf springs mounted on the spring plank and connected to the bolster, and hydraulic means mounted on the truck, and links connecting the spring plank with one set of such hydraulic devices, and other hydraulic means connected each to the spring members of the leaf springs, said hydraulic devices adapted to create and apply dampening and shock absorbing effects to the bolster, whereby the bolster is relieved of vertical shocks and side sway, and whereby these effects are transmitted to the car bodies through the articulated connection with the truck.

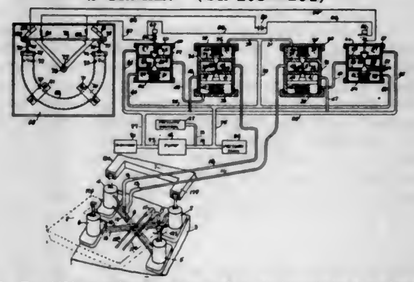
2,161,686
AIR CONDITIONING APPARATUS FOR RAILWAY VEHICLES
Theodore H. Schoepf and David M. Ritchie, Cincinnati, Ohio, assignors to The Cincinnati Traction Building Co., Cincinnati, Ohio, a corporation of Ohio
Original application September 9, 1936, Serial No. 99,996. Divided and this application January 21, 1937, Serial No. 121,638
2 Claims. (Cl. 105—4)

1. In an articulated railway train, the combination of adjacent cars, a common truck, means for articulating said cars with respect to said truck, an enclosure for the space between said cars, mounted on the side walls of the cars, a vestibule located between said car bodies, and an air conditioning unit operatively connected with a distribution system in the car body to which it is attached mounted on the outside end of the



car body between said vestibule and said enclosure enclosing the articulation.

2,161,687
APPARATUS FOR MAINTAINING ADJACENT RAILWAY CARS ON A LEVEL PLANE
Theodore H. Schoepf and David M. Ritchie, Cincinnati, Ohio, assignors to The Cincinnati Traction Building Company, Cincinnati, Ohio, a corporation of Ohio
Application March 5, 1937, Serial No. 129,200
2 Claims. (Cl. 105—164)

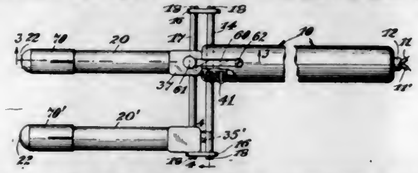


1. In tilt control means for articulated railway cars having a common truck, a pair of hydraulic cylinders on said truck having pistons reciprocable therein and connected each to one car, hydraulic connections between the tops of said cylinders, hydraulic connections between the bottoms of said cylinders, a source of fluid under pressure, and means to alternately supply fluid to said connections, said last-named means including a pair of hydraulically operated valves between said connections and said fluid supply and alternately operating electrically operated valves hydraulically connected to said fluid supply and to said hydraulically operated valves for operating said hydraulically operated valves from said fluid supply.

2,161,688
TRANSILLUMINATING DEVICE
Louis H. Schwartz, New York, N. Y., assignor to Walter A. Arnesen, New York, N. Y.
Application October 25, 1935, Serial No. 46,704
9 Claims. (Cl. 128—23)

1. A transilluminating device for manual use comprising a plurality of elongated electrically energized illuminating tubes having sources of

light rays at their tips, said tubes being so connected for relative movement that the distance between the tips thereof can be varied and the



tips can be moved into close proximity, and a transparent shield adapted to fit over and inclose the ends of the tubes when the tips thereof are in close proximity.

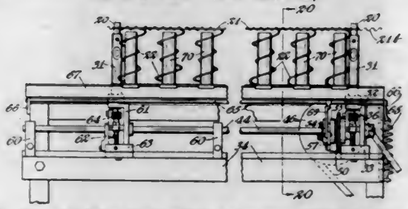
2,161,689

MACHINE FOR CUTTING AND FASTENING HELICAL SPRINGS

Joel G. Strandberg, St. Paul, Minn., assignor to The United States Bedding Company, St. Paul, Minn., a corporation of Minnesota

Application September 10, 1938, Serial No. 229,300

14 Claims. (Cl. 140—3)



1. In combination with an assembling table for upholstery springs to be joined together by a helical wire, said table having paralliel rows of holders for said springs, a pair of cutter heads disposed near the ends of said rows and having aligned passages to receive a helical wire joining the springs on said holders together, cutters movable in said passages respectively to simultaneously trim and reverse the end portions of said wire by rotary motion continuously in one direction, power-driven means for actuating said cutters to trim and reverse the end portions of said wire and to return said cutters to initial wire-receiving position, and a manual control for said power-driven means.

2,161,690

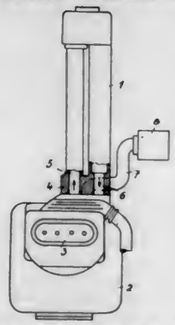
RADIATOR ARRANGEMENT FOR MOTOR VEHICLES

Othmar Windberger, Steyr, Austria

Application October 31, 1936, Serial No. 108,535

In Austria November 6, 1935

2 Claims. (Cl. 123—174)



1. A water-cooled engine for a motor vehicle having opposed, substantially horizontal cylinders, in combination with a radiator mounted upright on the said opposed cylinders, upright risers and downcomers for the cooling water, leading from the cylinders to the radiator, suction pipes leading to the cylinders and through the flanges containing the said risers, downcomers and suction pipes for fixing the radiator to the engine for enabling the heat of the cooling water to be utilised for heating the medium sucked through the suction pipes, the said engine and radiator thus forming a unit.

2,161,691

FOUNTAIN PEN CAP LATCHING DEVICE

Matt. A. Anderson, Dallas, Wis.

Application July 18, 1938, Serial No. 219,894

3 Claims. (Cl. 120—42)



1. A latching device for the cap of a fountain pen or the like, comprising a spring arm including a wide end portion, ears formed on the wide end portion and extending through the cap and bent against the inner surface thereof for securing the spring arm to the cap, the remaining portion of the arm being tapered and spaced from the cap, a catch on the free end of the arm and extending outwardly at right angles thereto, projections formed on the cap for disposal flush with the wide end of the arm and providing shoulders engageable with the side edges of the wide end, a keeper secured to the barrel in the path of the catch for receiving the latter to detachably secure the cap on the barrel.

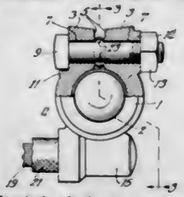
2,161,692

ELECTRICAL TERMINAL

Gustaf E. Andre, Richmond, Ind., assignor to Belden Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application March 23, 1936, Serial No. 70,195

5 Claims. (Cl. 173—259)



5. In an electrical terminal particularly intended for use in proximity to corrosive substances, a clamp member having the general form of an open ended annulus, the two ends of said clamp member terminating in shoulder portions which are normally separated some distance from each other, a bolt or stud which extends through suitable aligned passageways formed within said shoulder portions to connect the two ends of said clamp member, and a thin walled, axially collapsible cylindrical tube of relatively soft corrosion resistant metal extending between and connecting the inner ends of said aligned passageways, said tube cooperating with said shoulder portions and said aligned passageways formed therein to provide a single, substantially straight passageway, completely enclosed at all times, for receiving the shank portion of said bolt or stud, whereby corrosion of the shank portion of said bolt or stud shall be positively prevented regardless of the tightness or lack of tightness of said bolt or stud, said tube being adapted to be at least slightly collapsed during the tightening of said stud or bolt.

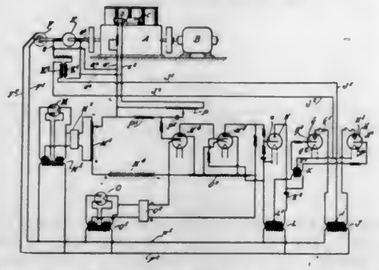
2,161,693

SPEED REGULATING DEVICE FOR PRIME MOVERS

John J. Baier, Flushing, N. Y.

Application April 24, 1937, Serial No. 138,697

11 Claims. (Cl. 290—40)



6. A device for controlling the speed of a Diesel engine adapted to operate a generator for energizing a load circuit and which includes, in combination, a fuel pump for determining the flow of fuel to the engine, electrical means for controlling the operation of the pump, electronic means having an output circuit controlling said electrical means and adapted when the flow of current through said output circuit has a given value to maintain a given operating condition for the electrical means controlling the pump, an input circuit for said electronic means, and means in said input circuit and controlled by the Diesel engine for varying the flow of current in the output circuit of said electronic means above or below said given value, whereby to increase the flow of fuel to the Diesel engine when the speed thereof is reduced and to reduce the flow of fuel to said Diesel engine when the speed thereof is increased.

2,161,694

GRIPPING JAW FOR WIRE CLAMPS

Stephen P. Becker, Poughkeepsie, N. Y.

Application October 8, 1936, Serial No. 104,659

1 Claim. (Cl. 24—126)



In a gripping jaw including a compression spring, a clamp consisting of a band adapted to loosely surround the spring, resilient strips peripherally spaced about the band and extending axially thereof, co-extensive spaced parallel wedge shaped gripping jaws each carried by a respective strip, said jaws being externally tapered inwardly away from said band, said jaws being thicker than the strips and extending radially inwardly thereof to form in conjunction with said band and strips a cage for receiving a terminal of the spring.

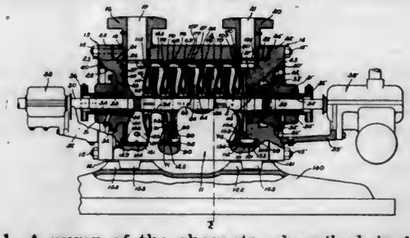
2,161,695

ROTARY PUMP FOR HOT FLUIDS

George E. Bigelow, Southgate, and Arthur R. Weis, Huntington Park, Calif., assignors of one-half to Pacific Pump Works, Huntington Park, Calif., a corporation of California

Application August 1, 1938, Serial No. 222,526

15 Claims. (Cl. 103—108)



1. A pump of the character described, including: a cylindrical shell having an axial opening therethrough and inlet and outlet means near the ends thereof, there being a notch in the rearward end of said shell; an insert structure within said shell and including an inlet member at the forward end thereof communicating with said inlet means of said shell and an outlet member at the rearward end thereof communicating with said outlet means of said shell there being a passageway in the insert structure between said inlet and outlet members; head means for the front end of said shell; head means detachably secured to the rear end of said shell and providing a chamber therein; a shaft extending through said chamber to said insert structure; sealing pump elements in said passageway operatively connected to said shaft; means around said shaft at the outer end of said chamber; throttle means around said shaft between said chamber and said outlet member; and piping extending along the exterior of said shell, said piping having its forward end connecting through said shell with the interior of said inlet member and having the rearward end thereof connected to said chamber, said piping passing through said notch in the rearward end of said shell.

2,161,696

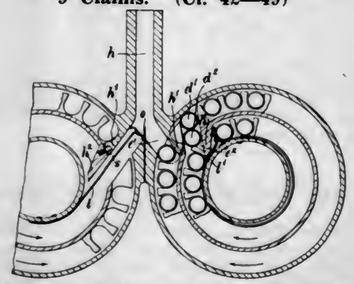
AMMUNITION MAGAZINE

Latham Valentine Stewart Blacker, Coates House, near Fittleworth, England

Application September 9, 1936, Serial No. 100,006

In Great Britain October 2, 1935

9 Claims. (Cl. 42—49)



1. An ammunition magazine for machine guns comprising, a container, a plurality of rotors in said container, projecting means carried by each rotor for supporting individually a plurality of cartridges, the wall of said container having an outlet for said cartridges, driving means for ro-

tating said rotors sequentially so as to carry the cartridges bodily about the container axis and eject them sequentially through said outlet, and a spring member wound around one of said rotors when such rotor is filled with cartridges and which is unwound by the rotation of the rotor thereby pressing against the last cartridge during its movement towards and through said outlet in the container wall.

2,161,697

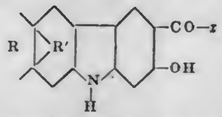
HYDROXYBENZOCARBAZOLE COMPOUNDS

Willy Broeg, Leverkusen-I. G. Werk, and Heinrich Morschel, Cologne Deutz, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 13, 1933, Serial No. 656,622. In Germany February 18, 1932

7 Claims. (Cl. 260—315)

1. The carbazole compounds of the general formula:



wherein R stands for a tetramethine chain linked to R' in 5,6- or 7,8-position and x stands for the radical of an arylamine, being generally yellowish substances, insoluble in water, difficultly soluble in aqueous alkalies and in most organic solvents, and being valuable intermediate products in the manufacture of dyestuffs.

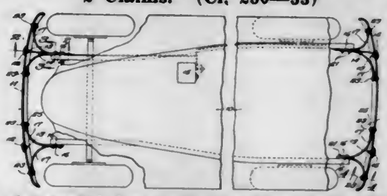
2,161,698

MOTOR VEHICLE AERIAL

John J. Clark, Flint, Mich.

Application April 4, 1938, Serial No. 200,033

2 Claims. (Cl. 250—33)



1. An aerial for motor vehicles comprising a bumper, means for attaching a lead-in wire in good electrical contact with the bumper, and bumper carrying brackets each comprising two similar parts, each part consisting of a flat elongated member having its outer end curved laterally and connected to the bumped, the flat elongated members being secured together side by side for attachment to the vehicle and provided on their inner contact faces with grooves forming a longitudinal passage through which a lead-in wire may be trained.

2,161,699

BLADE FOR AIRCRAFT SUSTAINING ROTORS

Juan de la Cierva, deceased, late of Aldwych, London, England, by John Josselyn, London, England, and Reginald Blake, Aldwych, London, England, administrators, assignors, by mesne assignments, to Autogiro Company of America, a corporation of Delaware

Application April 29, 1937, Serial No. 139,813

In Great Britain May 1, 1936

7 Claims. (Cl. 244—18)

2. A rotor blade, for aircraft sustaining rotors of the kind referred to, having substantially uniform mass distribution along its length and having an additional nonstructural mass, said mass being situated at approximately 75% to 80% of the tip radius of the blade.



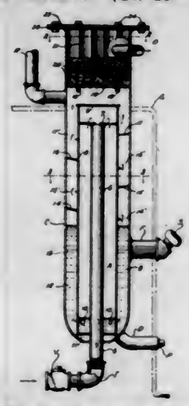
2,161,700

HYDRAULIC BACK-PRESSURE ARRESTER

Maurice P. De Motte, Indianapolis, Ind., assignor to Oxweld Acetylene Company, a corporation of West Virginia

Application February 29, 1936, Serial No. 66,415

11 Claims. (Cl. 48—192)



7. A hydraulic back-pressure arrester comprising a casing having an inlet adjacent the lower end thereof and an outlet adjacent the upper end thereof, said casing being adapted to contain a body of sealing liquid in the lower portion thereof and also being adapted normally to permit the flow of a combustible gas from said inlet to said outlet; means connected to said inlet and adapted normally to direct the flow of such gas from said inlet to the upper portion of said casing; stationary means enclosing said upward-directing means and adapted normally to direct the flow of such gas from said upward directing means downwardly to a point adjacent the lower end of said casing and adapted to direct the flow of such gas through said body of liquid; means disposed within said casing above the normal level of said body of liquid for removing moisture entrained in said gas due to passage through such body of liquid, said means including a screen and a body of felt supported by said screen disposed in the upper portion of said casing above said downward directing means and below said outlet; means disposed adjacent the top of said casing and extending below said outlet adapted to hold said felt against said screen; and a check-valve adapted to prevent the flow of such gas from said casing through said inlet when the pressure of gas at said outlet becomes greater than the pressure of such gas at said inlet.

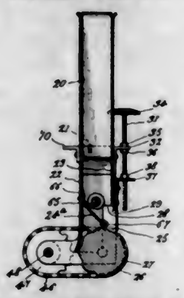
2,161,701

SANDING MACHINE

Daniel B. Dimick, Newton, Mass., assignor to Dimick-Mosher Products Company, Boston, Mass., a corporation of Massachusetts

Application June 4, 1937, Serial No. 146,477

2 Claims. (Cl. 275—2)



2. A road sander comprising a sand reservoir, a receptacle beneath said reservoir, means connecting said reservoir and receptacle to conduct sand therebetween, conveying means in the receptacle for distributing sand throughout the length of the receptacle, a roller having in its outer surface a plurality of grooves extending axially of the roller, means for rotatably mounting said roller below said conveying means, a movable baffle extending partly between said conveying means and said roller and having a free edge contacting said roller whereby on rotation of the roller the baffle is vibrated by the free edge dropping successively into the grooves to deliver a constant small quantity of sand into the grooves, and a gate comprising a row of flexible fingers positioned with the free ends of the fingers adjacent the roller forwardly of the baffle in the direction of rotation of the roller whereby to restrict the quantity of sand delivered from said roller to the road.

2,161,702

REVERSING GEARING COMPRISING PRESSURE FLUID OPERATED CONTROL COUPLING

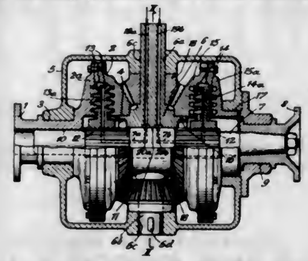
Alfred Dürig, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland

Application May 2, 1938, Serial No. 205,550

In Germany May 5, 1937

5 Claims. (Cl. 74—379)

1. A fluid operated coupling apparatus, for control of direct drive and reversing apparatus for sectional shafts having a pair of main longitudinal bevel gears surrounding the axis of the shaft and transverse intermediary bevel gears engaging with said longitudinal gears and uniformly distributed around the peripheries of said longitudinal gears, comprising two fluid-pressure operated friction clutches arranged immediately on the outer ends of said longitudinal gears in coaxial relation therewith, a continuous cross carrier loosely accommodating said transverse bevel gears and having passages formed therein leading to said shaft, and means for selectively conducting said fluid to said clutches for driving one section of said shaft in either direction relative to the other.



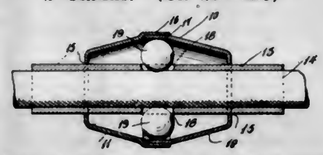
2,161,703

LINE HOLDER

George T. Ellis and Robert C. Bratton, Detroit, Mich.

Application April 28, 1937, Serial No. 139,622

2 Claims. (Cl. 24—126)



2. A device of the class described comprising a casing having a cylindrical portion and an annular converging end, said casing having aligned restricted openings at its ends, a sleeve extending through said casing disposed centrally thereof and slidably mounted in said openings, said sleeve having a series of spaced circumferentially arranged openings intermediate of its ends, spherical shaped wedge members mounted in said casing and projecting partially through said last mentioned openings and into said sleeve, said spherical wedge members being normally disposed contiguously with the cylindrical portion of said casing, and a line extending through said sleeve and of a diameter sufficient to engage said spherical wedge members to force them outwardly of said sleeve and into engagement with said cylindrical portion whereby said spherical wedge members will be held between and in frictional engagement with the line and cylindrical portion of the casing so that a pull on said line in one direction will move the sleeve and wedge members so that said wedge members will contact the converging ends of said casing and be urged inwardly thereby to clamp the line.

2,161,704

BOWLING ALLEY GAUGE

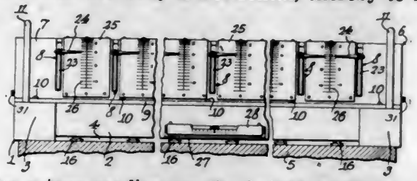
Garnet R. Foster, Macomb, Ill.

Application July 12, 1937, Serial No. 153,233

1 Claim. (Cl. 33—174)

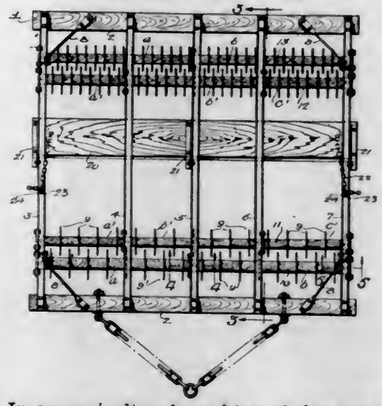
In a device for determining the relative altitude of points on a surface, an elongated body, surface-engaging feelers vertically movable on the body and spaced apart longitudinally of the body, height indicators carried by the body and operatively connected with the feelers, level-indicating means carried by the body, and means carried by the body for bringing the body to a

position in which the level-indicating means will show that the body is horizontal, thereby to se-



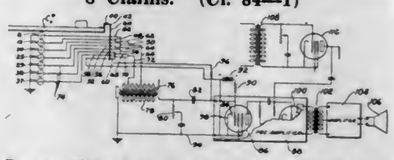
sure a true reading on the height indicators as to vertical irregularities in surface conditions.

2,161,705
AGRICULTURAL MACHINE
William D. Haines, Haddonfield, N. J., assignor of one-half to Morris M. Serata, Bridgeton, N. J.
Application October 5, 1937, Serial No. 167,461
6 Claims. (Cl. 55—23)



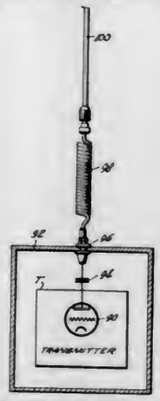
1. In an agricultural machine of the character described, a harrow assembly comprising a plurality of aligned shafts, a plurality of disk and sleeve elements alternately arranged on each of said shafts substantially throughout the length thereof, bearing elements threaded on opposite ends of each shaft for the purpose of firmly clamping said disk and sleeve elements together for rotation with each of said shafts as a unit, brackets including sleeve portions constructed and arranged to rotatably receive the bearing elements at the outer ends of said series of aligned shafts, and other brackets including sleeve portions arranged to rotatably receive both bearing elements at adjacent ends of adjacent shafts in said series.

2,161,706
ELECTRICAL MUSICAL INSTRUMENT
Laurens Hammond, Chicago, Ill.
Application March 6, 1937, Serial No. 129,344
8 Claims. (Cl. 84—1)



1. In an electrical musical instrument of the electric organ type, the combination of a generator producing impulses of a musical tone frequency, an output circuit having means for translating the impulses from said generator into sound, a key, a switch operated by said key for connecting said generator to said output circuit, a thermionic tube in said output circuit, said tube having a control grid, and means for varying the potential on said control grid immediately following the closure of said switch, thereby to cause a gradual increase in the amplitude of the signal transmitted through said tube and to produce the effect of gradual attack in the tone produced by said translating means, said means for varying the potential on said control grid comprising a positive potential source, a resistance element, and a second switch operated by said key for connecting said source to said grid through said resistance element.

2,161,707
ANTENNA
Jarrett L. Hathaway, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application February 25, 1937, Serial No. 127,628. Divided and this application November 10, 1937, Serial No. 173,790
4 Claims. (Cl. 250—33)



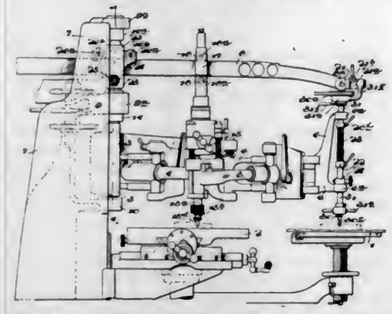
1. A short wave antenna system comprising a support, an insulator carried by said support, an open helical spring having one end mounted on said insulator and a short straight light weight antenna rod mounted on the other end of said spring.

2,161,708
ACOUSTIC SURFACING FOR WALLS, CEILINGS, PARTITIONS, OR THE LIKE
Paul M. Heerwagen, Fayetteville, Ark.
Application July 29, 1937, Serial No. 156,408
5 Claims. (Cl. 181—0.5)



1. An acoustic surfacing for walls, ceilings, partitions or the like, comprising a hollow box-like unit having a surface diaphragm for initially receiving the sound vibrations with such surface diaphragm restrained against responsive action to the sound vibrations only at its edges, and a plurality of interior secondary diaphragms arranged substantially in parallelism with the surface diaphragm and providing secondary vibrational absorbing means, said secondary diaphragms being responsive only to sound vibrations transmitted from the surface diaphragm.

2,161,709
THREE DIMENSIONAL ENGRAVING AND ALLIED PANTOGRAPH MACHINE
Peter M. Henkes, Racine, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of New Jersey
Application June 3, 1938, Serial No. 211,678
18 Claims. (Cl. 90—13.1)



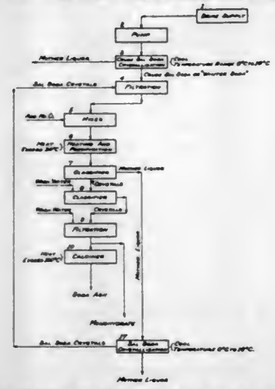
1. In a machine for producing work in enlarged scaled reproduction of a pattern, in combination, a frame; a pantograph swingable in a normally fixed horizontal plane on a vertical axis carried by said frame, the normal tracer arm of said pantograph provided with a vertical confining guideway the longitudinal axis of which is parallel with said pantograph axis; a normally permanent cutter head included in the pantograph and provided with a vertical cutter spindle adapted to be operatively provided with either a cutter or a tracer; and an auxiliary cutter unit longitudinally removable from and applicable to said guideway and normally held thereby against relative lateral movement, and including a vertical rotary cutter spindle provided with a concentric driving member, and a mounting for said spindle that includes a longitudinal barrel slidable in said guideway and provided with end heads, and a handle, one of said end heads being removable.

2,161,710
MANUFACTURE OF ABSORPTIVE MATERIALS
Karl Jaeger, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application March 25, 1937, Serial No. 132,974. In Germany April 2, 1936
5 Claims. (Cl. 252—2)

1. The process which comprises acting upon coal with a sulfonating agent of the group consisting of sulfuric acid, fuming sulfuric acid, SO_3 and amidosulfonic acid in the presence of a mercury catalyst and a member of the group consisting of boric acid and potassium bichromate.

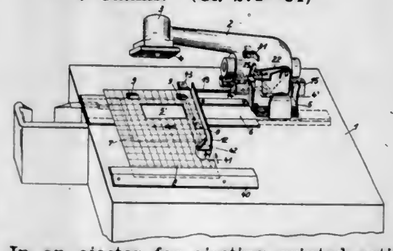
2,161,711
PROCESS FOR MAKING SODIUM CARBONATE PRODUCTS
Glenn A. Keep and Eric Edward Todd, Keeler, Calif.
Application June 25, 1935, Serial No. 28,282
10 Claims. (Cl. 23—63)

1. A process of separating and recovering sodium carbonate in a purified state from complex brines containing sodium carbonate and other substances which comprises cooling said brines within the temperature range of 0° C. to 18° C. thereby causing the crystallization of crude sal



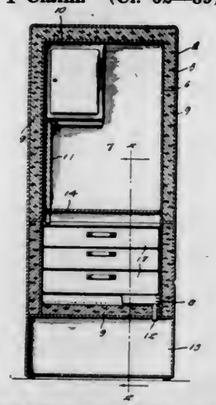
soda, separating said crude sal soda crystals from their mother liquor, mixing said sal soda crystals with solid sodium chloride, heating said mixture of crystals in the water of crystallization alone to temperatures between 80° and 95° C. to precipitate sodium carbonate monohydrate.

2,161,712
EJECTOR FOR EJECTING PRINTED ARTICLES FROM A PRINTING MACHINE
Joseph Krell, Berlin-Zehlendorf, Germany, assignor to Adrema Maschinenbauges m. b. H., Berlin, Germany
Application February 7, 1938, Serial No. 189,199
In Germany February 27, 1937
7 Claims. (Cl. 271—84)



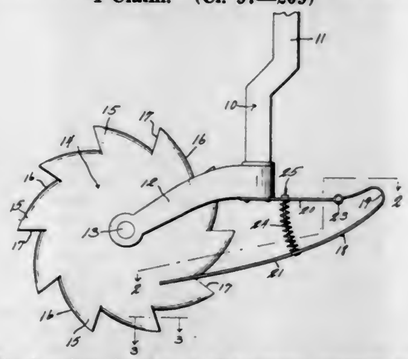
1. In an ejector for ejecting printed articles from a printing machine, an oscillating printing arm, a frame, an ejector rod mounted to slide in the frame, a striker lever fulcrumed on the frame, means for abruptly transforming the forward circular movement of the striker lever into forward straight-line movement of the ejector rod, a spring for returning the ejector rod into its initial position, a striker spring arranged to move the striker lever forward against the action of the return spring, a member on the printing arm for depressing the striker lever against the action of the striker spring during the descent of the printing arm, a pawl for locking the striker lever in its depressed position, means on the pawl adapted to be engaged by the member during the ascent of the printing arm, for disengaging the pawl from the striker lever, and mechanism operatively connected to the skipping means of the printing machine for holding the striker lever in its depressed position notwithstanding its release by the pawl.

2,161,713
ELECTRIC REFRIGERATOR
Robert M. Lewis, Columbus, Ga.
Application May 19, 1938, Serial No. 208,897
1 Claim. (Cl. 62—89)



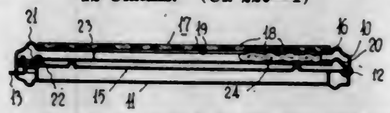
In a refrigerating apparatus, the combination of a food storage compartment, a cooling element in the food storage compartment, a partition arranged within said compartment considerably below the cooling element for dividing said compartment into upper and lower chambers, a drain tube leading from the cooling element into the lower chamber, the said lower chamber being formed with a trap at its bottom, a drain leading from said trap to without the lower chamber, a plurality of superposed trays arranged in the lower chamber, removable therefrom and having reticulated bottoms and open at their tops, and means built with the refrigerating apparatus for giving access to the upper and lower chambers.

2,161,714
PLOW COLTER AND SHOE
August E. Lindelof, Tampico, Ill.
Application June 4, 1938, Serial No. 211,907
1 Claim. (Cl. 97—209)



In a colter having a sharpened cutting edge and supporting means for the colter, an arm secured at one end to the supporting means and extending forwardly of the colter, a second arm having a short reversely bent end portion, pivotal coupling means between the end of said end portion and the forward end of said first arm whereby the second arm may have vertical movement, said second arm being in the form of a relatively wide strip of material and extending downwardly and rearwardly and having formed in its rear end a slot in which the edge of said colter positions, and resilient means interposed between the arms and normally urging the second arm downwardly.

2,161,715
RECEPTACLE
Howard D. MacDonald, North Attleboro, Mass., assignor to Evans Case Company, North Attleboro, Mass., a corporation of Massachusetts
Application December 15, 1937, Serial No. 179,984
12 Claims. (Cl. 220—1)



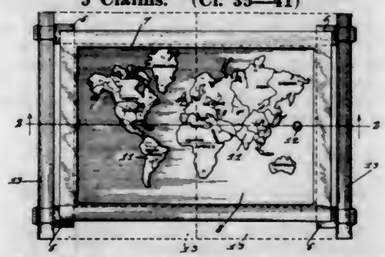
1. A receptacle comprising two members hinged together at one side, one member consisting of a frame, an ornamental plate pervious to light in the frame and exposed to view on both sides in the open position of the receptacle, a bezel in the frame, a member having a reflecting surface, a spring hinge connecting the reflecting member to the bezel at the side opposite the first mentioned hinge with the reflecting side toward the ornamental plate in the closed position so that when the receptacle is open the reflecting member is removed from the ornamental plate and exposes it to view.

2,161,716
ANIMATED ELECTRICAL DISCHARGE DEVICE
John H. McCauley, Hillside, N. J., assignor to Joseph F. Frese, trustee, Baltimore, Md.
Application January 25, 1939, Serial No. 252,829
5 Claims. (Cl. 176—122)



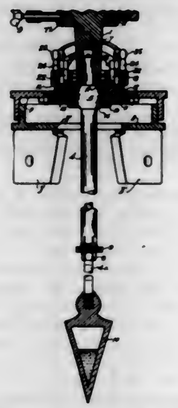
1. An animated electrical discharge device comprising a closed glass envelope containing a rare gas and spaced electrodes, said envelope comprising a tubular part having a plurality of grooves in its inner side extending longitudinally of the envelope, and a core of insulating material fitting within said part and closing the open sides of said grooves.

2,161,717
CARTOGRAPH
Grace A. McDonald, Petersburg, Ill.
Application November 29, 1937, Serial No. 177,131
5 Claims. (Cl. 35—41)



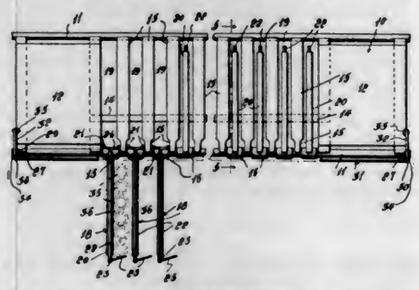
1. A cartograph, comprising, a receptacle having a bottom, a plate mounted on and spaced from said bottom and adapted to define a geographical area of land bounded by a body of water, and a body of liquid in said receptacle and contacting said plate to represent said body of water bounding said area of land.

2,161,718
LEVELING DEVICE
Ralph E. Miller, Newport, Wash.
Application June 15, 1938, Serial No. 213,791
2 Claims. (Cl. 248—182)



1. In a leveling device, the combination with a stand and its bearing-support, of a plumb-rod and an instrument mounted thereon, a ball rigid with the plumb-rod and seated in said bearing-support, a resilient friction-head mounted in the support and engaging the ball, a presser-plate mounted on the friction head, a tension-spring mounted in the bearing support and engaging said presser-plate, and means for releasing the tension of the spring from said friction-head.

2,161,719
PLATFORM AND PIPE RACK FOR OIL WELL DERRICKS
Ira T. Minyard, Odessa, and Elbert L. Layman, Crane, Tex.
Application August 4, 1938, Serial No. 223,118
9 Claims. (Cl. 211—60)



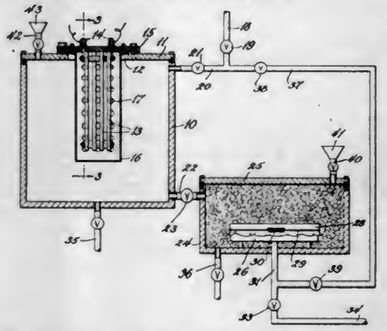
1. A device of the class described, comprising a platform, a plurality of fingers pivotally connected to said platform, rods rotatably mounted longitudinally of said fingers and having their outer ends bent outwardly to form locking dogs, operating members secured transversely of the inner ends of said rods, said fingers being movable from a folded position in said platform to an extended position projecting outwardly from a side of said platform with the fingers disposed in spaced parallel relationship relatively to each other to form racks adapted to receive pipes, and said locking dogs being actuated by movement of said operating members to be moved to a position transversely of the outer ends of the slots formed between said fingers and adapted to retain the pipes therein.

2,161,720
PAD
Alfred A. Morelli, Ridgway, Pa.
Application June 4, 1935, Serial No. 24,923
Renewed January 24, 1939
8 Claims. (Cl. 128—153)



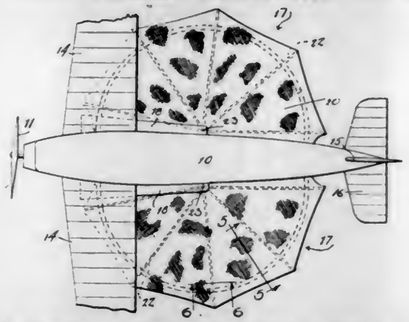
1. A pad of the class described comprising a strip of adhesive plaster having an opening therein and padding material secured in said opening and to one face of the adhesive plaster strip, the padding material being further secured in place by having portions lying on opposite sides of the edge of the opening.

2,161,721
METHOD OF AND APPARATUS FOR PURIFYING WATER
Robert Lee Negus, Halifax, Nova Scotia, Canada, assignor, by direct and mesne assignments, to Aqua-Electric Corporation, Limited, Halifax, Nova Scotia, Canada, a body corporate
Application January 11, 1938, Serial No. 184,462
2 Claims. (Cl. 210—132)



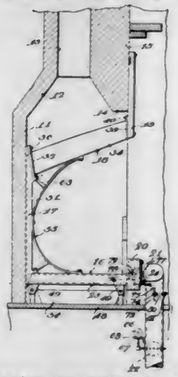
1. Water treating apparatus of the class described comprising, in combination, a closed precipitation tank; a valved supply pipe connected to the tank; a valved sludge drain pipe connected to the bottom of the tank; a closed filtering container filled with a coarse filtering medium; a conduit connecting the lower portion of said tank to said container; a filtering chamber in the bottom of the container embedded in said filtering medium and having a perforated cover; a filter cloth stretched over said perforated cover; a valved delivery pipe connected to the bottom of said chamber; a valved sludge drain pipe connected to the bottom of said filtering container; valved conduits connected to the tank and the filtering container for introducing brine for cleansing purposes; and a valved branch pipe connecting the supply pipe to introduce backwashing water through said chamber, container and tank in series.

2,161,722
PARACHUTE ATTACHMENT FOR AIRPLANES
Samuel Papp, Lowellville, Ohio
Application July 25, 1938, Serial No. 221,210
4 Claims. (Cl. 244—139)



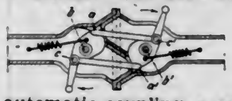
1. In a parachute attachment for airplanes, in combination, a fuselage, an arcuate guide tube at each side of the fuselage in the plane thereof and slotted at its outer side, an arcuate parachute section at each side of the fuselage comprising a parachute canvas and radial ribs with the inner focal ends of the ribs pivoted to the fuselage, lugs carried by the ribs and slidable in the guide tube and operating cords associated with the rib lugs and movable through the guide tube for opening and closing the parachute section, and lower brace rods extending respectively between the outer ends of the ribs and the fuselage with the inner ends thereof focally pivoted to the fuselage below the pivotal mounting for the ribs, each rib lug having a reduced neck connection with its carrying rib with the neck slidable through the guide tube slot and the outer end of the ribs extending outwardly and downwardly of the guide tube for attachment to the brace rods.

2,161,723
FIREPLACE HEATER
Jesse Eugene Rutland, Lenox, Ga., assignor of one-half to Jesse B. Boyett, Nashville, Ga.
Application July 29, 1938, Serial No. 222,021
4 Claims. (Cl. 126—121)



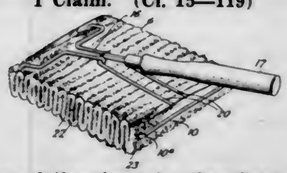
1. An air heater insertible in a fireplace opening comprising a grate member including an intake manifold extending horizontally across the opening, a plurality of tubular grate bars integral with said manifold, and a rear manifold integral with said bars, a jacketed rear wall rising from said rear manifold, a plurality of heater tubes extending forwardly and upwardly of said rear wall, a rear plate integral with the rear ends of said heater tubes, means securing said plate to the upper end of said rear wall, a front plate integral with said heater tubes, a discharge manifold, means securing said discharge manifold to said front plate, and a perforate wall carried by said discharge manifold.

2,161,724
AUTOMATIC CAR COUPLER
Karl Scharfenberg, Berlin-Nicolassee, Germany
Application March 10, 1937, Serial No. 130,184
In Germany March 10, 1936
2 Claims. (Cl. 213—77)



1. In an automatic coupling, a pair of mating coupling devices each having a rotatable hook plate and a coupling eye pivoted to said plate, the coupling eye of each device engaging with the hook plate of the other device to hold the coupling devices engaged, said coupling eyes being so pivoted and engaged with said plates that the lever arms through which said eyes tend to rotate said plates are equal when said coupling is locked and the lever arms through which said eyes act to rotate said hook plates to unlocked position becoming relatively greater as said coupling is being unlocked than the lever arms through which said eyes tend to rotate said hook plates to locked position.

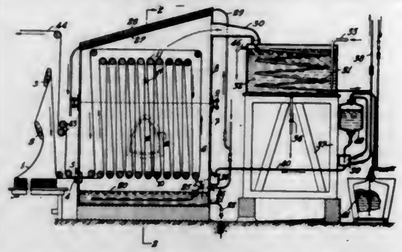
2,161,725
MOP ASSEMBLY
Sidney L. Smith, Pittsburgh, Pa.
Application August 5, 1938, Serial No. 223,367
1 Claim. (Cl. 15—119)



A device of the character described, comprising, a frame having a carrier equipped with side front and rear sections, a handle pivotally mounted on said front section, a pair of arms slidably connected to said side sections and normally positioned adjacent said rear section, and a compressible cleaning element slidably mounted on said side sections between said front section and said arms, said arms pivoted to said handle whereby movement of said handle serves to actuate said arms toward said front section and compress said element therebetween.

2,161,726
AGER FOR TREATING PRINTED AND LIKE FABRICS
Zdeněk Sochor and Alfréd Kvasnička, Dvur Kralove n. L., Czechoslovakia, and Sláva Morch, Rydboholm, Sweden; said Morch and said Kvasnička assignors to said Sochor
Application January 16, 1937, Serial No. 121,021
In Czechoslovakia January 17, 1936
2 Claims. (Cl. 68—6)

1. In an aging apparatus, an oxidizing chamber having a combined fabric entrance and exit opening, upper and lower guide rollers within the chamber, about which the fabric may be trained, an acid compartment in the chamber beneath the lower guide rollers, the upper portion of the chamber being inclined and having exterior longitudinal ribs, steam conduits arranged between the ribs, a steam coil within the acid chamber, means for supplying steam to the conduits and coil, a condenser coil exteriorly of the chamber, one end thereof having connection with an upper portion of the oxidizing chamber, a collector vessel in communication with the other end of the condenser coil, and said collector vessel having communication with the acid compartment of the oxidizing chamber.



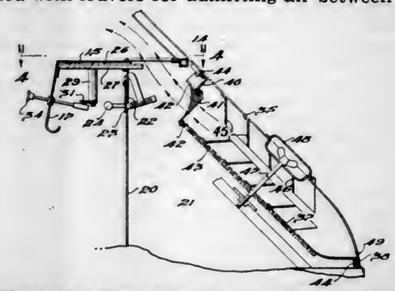
2,161,727
WEFT FEELER MECHANISM FOR LOOMS
Zdeněk Sochor, Dvur Kralove n. L., Czechoslovakia
Application January 29, 1937, Serial No. 123,079
In Czechoslovakia January 29, 1936
3 Claims. (Cl. 139—269)



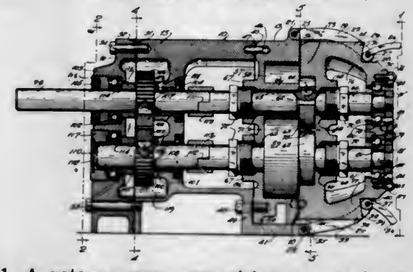
1. A mechanical weft feeler mechanism for looms comprising a sley, a cop bobbin having a cavity in the form of a tangential notch, the longer side of which is in a substantially horizontal plane, the loom having a breast beam, a slide member supported by the breast beam, a spring-urged feeler element carried by the slide, spring means urging the slide in the direction of the cop bobbin, said feeler member being in tangential contact with the weft on the bobbin but movable into the tangential notch upon exhaustion of the weft, whereby said slide will partake of forward movements of the sley thereby actuating mechanism for effecting change of the cop bobbin.

2,161,728
VENTILATOR
William B. Stout, Detroit, Mich., assignor, by mesne assignments, to Stout Engineering Laboratories, Inc., Dearborn, Mich., a corporation of Michigan
Application March 23, 1936, Serial No. 70,183
8 Claims. (Cl. 98—2)

1. In a vehicle body construction having a storage compartment in the forward end thereof, a cover structure providing access to the interior of said storage compartment, said cover comprising inner and outer sections of material substantially spaced in their body portions and secured together throughout a portion of their marginal edges to provide an integral unit construction, the outer of said sections being provided with louvers for admitting air between said sections and thence to the interior of said storage compartment.

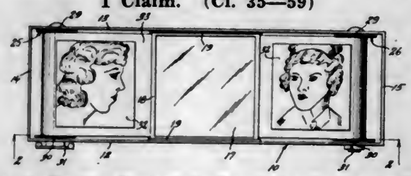


2,161,729
FLUID PUMP
Leroy A. Thomson, La Crosse, Wis., assignor to Bump Pump Company, La Crosse, Wis.
Application October 25, 1937, Serial No. 170,882
3 Claims. (Cl. 103—126)



1. A rotary pump comprising a gear housing, gears in said housing, extensions carried by said housing, an L-shaped member integral with one of said extensions, a pair of parallel shafts connected to said gears, an impeller housing engaging said extensions and said L-shaped member, means securing said impeller housing to said extensions, a pair of impellers rotatable in said impeller housing and connected to said shafts, said impeller housing having an inlet and outlet port, and also having an open side, a cover for said open side of said impeller housing, outwardly projecting arms carried by said cover, each of said arms having cam engaging notches, pairs of links pivotally carried by said impeller housing and said L-shaped member, a cam member pivotally disposed between each pair of links and engageable in a notch to detachably lock said cover in applied position, and an operating lever secured to each cam.

2,161,730
MAKE-UP MIRROR
Glen H. Tussing, San Benito, Tex.
Application February 28, 1938, Serial No. 193,093
1 Claim. (Cl. 35—59)



A make-up device of the character described

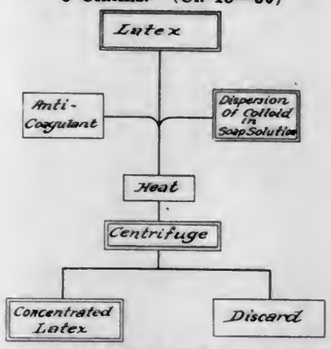
comprising a casing having an open top and a closure lid therefor, a mirror, bracket means rigidly attaching said mirror to said casing adjacent the open top of said casing and centrally between the ends thereof, a manually operated reel rotatably mounted within said casing adjacent each end thereof, band means carrying a plurality of different visual before and after make-up guide means connecting said reels and wound thereon, said band means being disposed for movement beneath said mirror whereby selected visual make-up guide means may be brought into view adjacent both sides of said mirror by a rotational movement of one of said reels.

2,161,731

PROCESS FOR PREPARING A CONCENTRATED RUBBER DISPERSION FROM LATEX AND PRODUCT

Nicolaas Hendrik van Harpen, Medan, Sumatra, Netherlands East Indies, assignor to Algemeene Vereeniging Van Rubberplanters Ter Oostkust Van Sumatra, Sumatra, Netherlands East Indies

Application May 3, 1937, Serial No. 140,564
In the Netherlands April 10, 1937
6 Claims. (Cl. 18—50)



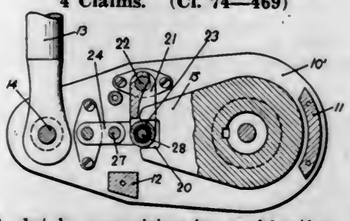
1. The process of preparing a concentrated rubber dispersion from latex, comprising mixing the latex with a dispersion of a colloid in a soap solution, and centrifuging the mixture whereby the lighter cream layer is separated from the heavier layer of the underlatex.

2,161,732

CLUTCH

Gert Zoege von Manteuffel, Berlin-Dahlem, Germany, assignor to Askania-Werke A. G. vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, a corporation of Germany

Application December 21, 1936, Serial No. 117,068
In Germany December 27, 1935
4 Claims. (Cl. 74—469)



1. A clutch, comprising in combination, a first lever; a second lever mounted coaxially with said first lever and having a radially disposed slot; a crank-shaped member rotatably mounted on said first lever for engaging said slot, the point of rotation being tangentially disposed with regard to the point of engagement; a knee-action link connected to said crank-shaped member and said first lever; and means for actuating said link for releasing the clutch.

2,161,733

METHOD OF DETERMINING FLUID DENSITY, FLUID PRESSURE, AND THE PRODUCTION CAPACITY OF OIL WELLS

Cranford P. Walker, San Marino, Calif.

Continuation of application Serial No. 171,170, October 26, 1937. This application April 19, 1939, Serial No. 268,805
8 Claims. (Cl. 73—51)



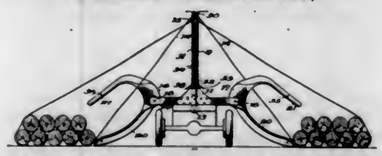
1. The method of determining the density of the standing column of liquid in a well, which comprises measuring the stable level of the liquid column under one condition of gas pressure, changing the pressure of gas within the well to move the surface of the liquid column to a new stable level, measuring the new stable level and dividing the change in pressure on the liquid surface required to achieve the new level by the difference in height between the two levels.

2,161,734

VEHICLE LOADING APPARATUS

Roger E. Wheless, Shreveport, La.

Application March 4, 1937, Serial No. 129,012
Renewed April 10, 1939
8 Claims. (Cl. 214—65.3)



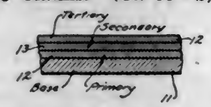
1. In a loading apparatus for vehicles, the combination of substantially upright load embracing and retaining members pivoted at opposite sides of the vehicle body to swing in a vertical plane transversely thereof, the center of gravity of each member being located inwardly of the pivotal center of said member when the latter is in its upright load retaining position, and means for depositing the articles to be loaded on said members and simultaneously raising said members to their upright position.

2,161,735

COLOR PHOTOGRAPHY

Donald K. Allison, Beverly Hills, Calif., assignor to Detracolor, Ltd., a corporation of Nevada

Application April 15, 1935, Serial No. 16,377
3 Claims. (Cl. 95—2)



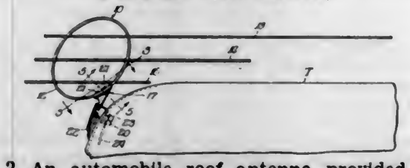
1. In a photographic film the combination of: a primary emulsion layer effectively sensitive only to the orange-red end of the spectrum which carries the leuco base of a red basic dye; a secondary emulsion layer in superposition with said primary layer which is effectively sensitive only to the green-yellow portion of the spectrum and which carries the leuco base of a yellow basic dye; and a tertiary emulsion layer in superposition with said other layers which is effectively sensitive only to the blue-green end of the spectrum and which carries the leuco base of a blue basic dye.

2,161,736

AUTOMOBILE AERIAL

Rudolph A. Becwar, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application May 19, 1937, Serial No. 143,527
4 Claims. (Cl. 250—33)



2. An automobile roof antenna provided for ease of original fabrication and subsequent rigidity in mounting and use comprising a metal frame member, standing in a vertical plane, a plurality of spaced apart elongated metal elements rigidly secured to said frame, with each of said elements engaging such frame in at least two separated points, with said member and frame rigidly and permanently secured together at said points to provide a completely rigid antenna structure and with said metal elements extending forwardly and rearwardly from each of said engaging points in a plane parallel to the plane of the frame member to provide an enlarged metal signal-receiving surface in said antenna and mounting means for said frame member including an insulating portion for mounting directly on the automobile roof, and a channelled portion for receiving said frame member, and threaded means extending from one side of said frame member to the other side thereof and into said mounting means to rigidly secure the frame member thereon.

2,161,737

POLYMERIZED DI-(2-CHLOROALLYL) ETHER

Gerald H. Coleman and Robert W. Sapp, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 6, 1937, Serial No. 167,630
1 Claim. (Cl. 260—80)

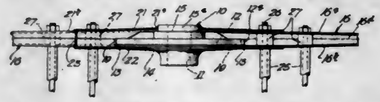
Polymerized di-(2-chloroallyl) ether.

2,161,738

REEL FOR TRAY OVENS

Wilbur E. Davis and William Schonwald, Chicago, Ill., assignors to Middleby-Marshall Oven Co., Chicago, Ill., a corporation of Illinois

Application April 1, 1938, Serial No. 199,454
7 Claims. (Cl. 198—211)



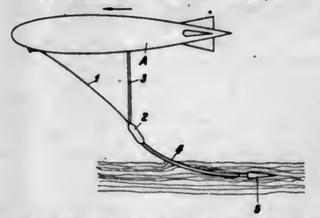
1. A structure of the class described comprising a hub having a radially extending flange terminating in a cylindrical periphery, a plurality of hollow sheet metal spokes provided with shoulders each comprising ends of two opposed walls of the spoke abutting the periphery of said flange and an end portion of another side wall of the spoke disposed as a chord across a side of said flange, and extensions overlying the other side of said flange and welded thereto.

2,161,739

WATER BALLAST DEVICE FOR AIRCRAFT

Ludwig Duerr, Friedrichshafen, Bodensee, Germany, assignor to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany

Application January 10, 1936, Serial No. 58,525
In Germany January 11, 1935
9 Claims. (Cl. 244—94)



7. A water ballast device for aircraft comprising a pump adapted to be lowered from the aircraft to a position substantially below same and above the surface of the water from which water is to be supplied to the aircraft, a hose connecting said pump with said aircraft, a second hose depending from said pump adapted to connect said pump to the water surface, a member attached to the lower end of said second hose for scooping water to said hose when said device is in operation and delivering it by pressure established by moving the aircraft, said member being provided with at least one nozzle-like opening, the inlet end of which extends in the direction in which the device is moved by the aircraft, whereby to cause the entering water to be forced upwardly toward said pump, said member having the forward edge thereof substantially V-shaped in cross-section with said opening situated in said edge.

2,161,740

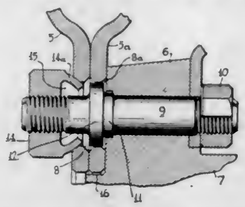
WHEEL MOUNTING

Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 11, 1936, Serial No. 79,103
4 Claims. (Cl. 301—9)

1. In a vehicle wheel assembly comprising a hub having a radially-extending wheel-supporting flange, a wheel body provided with stud circle openings, a plurality of annularly arranged threaded studs secured to said flange and pro-

jecting axially outward therefrom, and threaded cap nuts having ball-shaped seating portions, that improvement which consists in forming each of said nuts with a chambered portion providing an inner surface similar to the surface of the ball-shaped seating portion leaving a thin wall por-



tion of approximately uniform thickness, the axially inner portion being spaced from said stud, said nut and said stud contacting each other only at their engaging screw-threaded portions, said thin wall portion engaging said wheel body and centering the same and also permitting a limited amount of radial elastic deformation thereof.

2,161,741

MANUFACTURE OF MERCAPTOTHIAZOLES

John R. Gage, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 27, 1937, Serial No. 145,155

5 Claims. (Cl. 260—306)

1. A method of purifying mercaptoarylthiazoles which comprises treating the crude mercaptoarylthiazole with ammonium hydroxide, decanting the resulting solution from the insoluble impurities, and heating the said solution to volatilize the ammonia and recover the purified mercaptoarylthiazole.

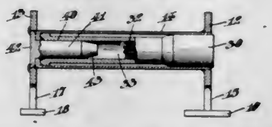
2,161,742

MEANS AND METHOD FOR HEAT TREATING WIRE FORMED IMPLEMENTS

Gustav Gastrich, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application September 26, 1936, Serial No. 102,752

18 Claims. (Cl. 266—4)



1. A device for heat treating wire formed implements, comprising an open end receptacle, a furnace structure for removably supporting said receptacle, and a plug member carried by said structure and shaped to fit into the open end of said receptacle and operative to effect a closure therefor.

16. The method of simultaneously heat treating a group of elongated wire formed implements having unlike ends comprising the steps of arranging the implements in a group with similar ends adjacent each other, then heating said group in an elongated compartment of a container, transmitting heat to said container over the major portion of the length of said compartment primarily by radiation and from all sides substantially equally while exposing both ends of the implements to surfaces heated primarily by conduction and thereafter introducing the implements lengthwise into a cooling bath one end first.

2,161,743

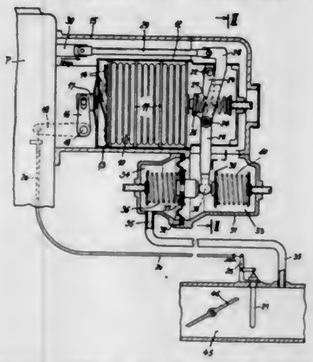
CONTROL MEANS FOR THE FUEL SUPPLY OF INTERNAL COMBUSTION ENGINES

Hans Heinrich and Johann Friedrich Janssen, Stuttgart, and Kurt Fiedler, Stuttgart-Kaltental, Germany, assignors to Robert Bosch Gesellschaft mit beschränkter Haftung, Stuttgart, Germany

Application February 24, 1938, Serial No. 192,366

In Germany September 7, 1936

11 Claims. (Cl. 123—140)



1. Control means for the supply of fuel to internal combustion engines, comprising at least one membrane box containing a gaseous medium and sensitive to temperature and pressure variations, means for feeding fuel to the engine, means for operably connecting said membrane box with said feeding means, and temperature sensitive means operating in opposition to said membrane box for at least partly nullifying that portion of the effect of said membrane box on the feeding means due to temperature changes.

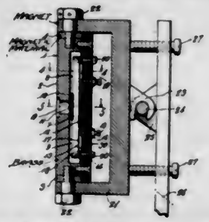
2,161,744

GALVANOMETER

Malcolm D. McCarty, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application July 9, 1938, Serial No. 218,268

4 Claims. (Cl. 171—95)



2. A multiple galvanometer comprising in combination a plurality of independent vibrating elements, independent means for damping the respective elements, each of said vibrating elements comprising a coil adapted to be suspended in a magnetic field, means for suspending said coil, and common means for adjusting the tension on the suspension means for the coil and adjusting the position of the coil.

2,161,745

TETRAHYDROFURFURYLAMINONAPHTHALENE COMPOUNDS AND PROCESS FOR THEIR PREPARATION

James G. McNally and Joseph B. Dickey, Rochester N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 28, 1937, Serial No. 139,610

3 Claims. (Cl. 260—345)

1. The process of preparing a mixture of 1-tetrahydrofurfurylamino-5-hydroxynaphthalene and 1,5-ditetrahydrofurfurylaminonaphthalene which comprises reacting an aqueous mixture of 1,5-naphthol, an alkali metal bisulfite and tetrahydrofurfurylamine at an elevated temperature.

2,161,746

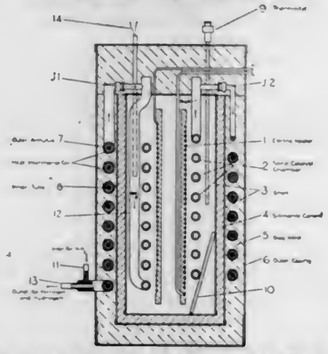
APPARATUS FOR DECOMPOSING AMMONIA

John Lindon Pearson, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application July 23, 1936, Serial No. 92,207

In Great Britain August 7, 1935

9 Claims. (Cl. 23—288)



1. An apparatus suitable for the thermal decomposition of ammonia and comprising a heat interchanger, a catalyst chamber through which ammonia and its decomposition products may flow, an electric heater, and a casing enclosing said heat interchanger, catalyst chamber and heater, said electric heater being arranged directly adjacent to and adapted to heat the catalyst chamber by direct radiation, the gas path being entirely closed with respect to the heater so that the latter is isolated at all points from the ammonia and its decomposition products and so that said heater may be inspected or replaced without allowing the air to come into contact with the catalyst.

2,161,747

INHIBITING OF FOAMING IN SYSTEMS CONTAINING GELATINE

Maurice L. Piker and Stephen C. Pool, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 14, 1937, Serial No. 153,686

8 Claims. (Cl. 252—1)

1. A process for inhibiting the foaming of a fluid mass containing gelatine which comprises incorporating a small amount of a liquid fatty acid ester of a monohydroxy aliphatic alcohol of 6–8 carbon atoms therein prior to an agitation of the mass, which is ordinarily foam-forming.

2. A process for comminuting emulsion coated film which comprises finely dividing the film while wet in the presence of a small amount of a liquid fatty acid ester of a monohydroxy aliphatic alcohol of 6–8 carbon atoms.

2,161,748

MOLDING PROCESS AND MATERIAL

Nicholas N. T. Samaras and Mark Plunguian, Dayton, Ohio, assignors to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio

No Drawing. Application June 29, 1935, Serial No. 29,168

6 Claims. (Cl. 106—39)

1. The method of preparing a molding material having a low melting point characteristic and adapted to flux and coat the surface of fibrous material when heated to temperatures suitable for fluxing thermosetting resinous materials which comprises treating a lignin material which has an oven dry melting point of not substantially above 220° C. to 230° C. with moisture as a modifying agent in excess of about 8% to 12% thereof to bring about a substantial reduction in the melting point of the lignin.

2,161,749

MOLDING PROCESS AND MATERIALS

Nicholas N. T. Samaras, Dayton, and Mark Plunguian, Chillicothe, Ohio, assignors to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio

No Drawing. Original application June 29, 1935, Serial No. 29,168. Divided and this application February 4, 1939, Serial No. 254,682

6 Claims. (Cl. 106—39)

1. The method of preparing a molding material having a low melting point characteristic and adapted to flux and coat the surface of fibrous material when heated to temperatures suitable for fluxing thermosetting resinous materials which comprises treating a lignin material which has an oven dry melting point of not substantially above 220° C. to 230° C. with furfural as a modifying agent in excess of about 8% to 12% thereof to bring about a substantial reduction in the melting point of the lignin.

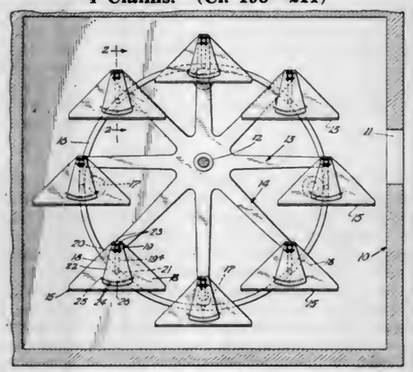
2,161,750

TRAY LEVELING DEVICE

William Schonwald, Chicago, Ill., assignor to Middleby-Marshall Oven Co., Chicago, Ill., a corporation of Illinois

Application April 1, 1938, Serial No. 199,455

4 Claims. (Cl. 198—211)



2. In a tray oven provided with tray stabilizing

arms, trays having end hangers pivotally supported by said arms, a bracket fixed to each arm coaxially with respect to a corresponding hanger and disposed in parallel relation and in close juxtaposition with respect to said hanger, said hanger and bracket each being provided with an arcuate row of apertures of different center-to-center spacing whereby adjustment of a hanger arcuately a distance less than said center-to-center spacing of either of said rows will effect registration of an aperture in one row with an aperture in another, and means adapted to be passed through said registering openings for securing said hanger to said bracket against movement relative thereto.

2,161,751

ROTOGRAVURE INK

Roy Allen Shive, Bound Brook, Joseph Ellis Coffee, East Orange, and Roy Herman Kienle, Bound Brook, N. J., assignors to The Calco Chemical Company, Inc., Bound Brook, N. J., a corporation of Delaware

No Drawing. Application October 12, 1936, Serial No. 105,290

4 Claims. (Cl. 134—36)

1. An intaglio printing ink comprising a color, a hydrocarbon solvent of the benzene series having a boiling point not higher than that of xylene and chlorinated rubber, the percentage solids of chlorinated rubber being between about 1% and about 30% and the ink not containing more than about 6% of a drying oil fatty acid.

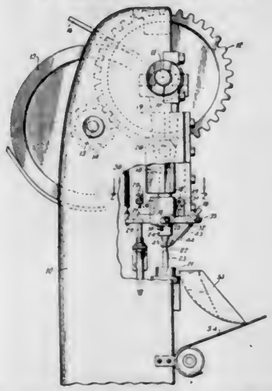
2,161,752

STRIPPER FOR COLLAPSIBLE TUBE EXTRUDING PRESSES

Harold F. Temple, Freeport, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York

Application February 16, 1938, Serial No. 190,751

10 Claims. (Cl. 207—9)



1. In a press for extruding collapsible tubes, a plunger having an extension thereon, means for vertically reciprocating said plunger and for also swinging said plunger about a horizontal axis, a bifurcated member having an opening therein for the reception of the plunger, and means for moving said member longitudinally of the plunger to strip off a tube extruded on the plunger comprising a pair of members constituting a toggle joint, one of said members carrying said bifurcated member at the lower end thereof, the other of said members being pivoted to said extension, a spring-pressed hinged connection between said pair of members and an adjustable fixed stop in the path of said other of the pair of members.

2,161,753

PROCESS FOR REFINING HYDROCARBON OILS BY MEANS OF HALOGEN COMPOUNDS

Ernst Terres, Berlin, Germany, and Josef Moos, New York, and Erich Saegebarth, Jackson Heights, N. Y., assignors to Edeleanu Gesellschaft, m. b. H., a corporation of Germany

No Drawing. Original application March 22, 1935, Serial No. 12,528. Divided and this application October 25, 1937, Serial No. 170,965

11 Claims. (Cl. 196—13)

1. A process for refining hydrocarbon oils by extracting the latter in batch or counter current with symmetric dibromohydrine at suitable temperatures, effecting separation of the layers, separating the layers from each other and recovering the solvent from the layers.

2,161,754

VULCANIZATION OF RUBBER

George W. Watt, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

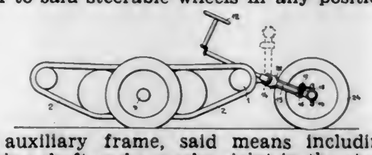
No Drawing. Application May 15, 1937, Serial No. 142,879

10 Claims. (Cl. 18—53)

5. The method of treating rubber which comprises vulcanizing the same in the presence of a compound having the formula

$$R{-}NH{-}C{=}S$$
$$\quad\quad R'{-}N{-}C{-}NH{-}R''$$
$$\quad\quad\quad

forming an extension of said main frame, steerable road wheels supported by said auxiliary frame, steering mechanism and means for imparting the movements of said steering mechanism to said steerable wheels in any position of



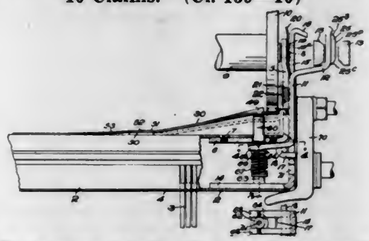
the auxiliary frame, said means including a steering shaft and a cardan joint in the steering shaft at its point of intersection with the axis of connection of said auxiliary frame to said main underframe.

2,161,761

TUFT YARN PRESENTATION FRAME

Edgar F. Hathaway, Wellesley, and Walter Bixby, Dorchester, Mass., assignors to Shawmut Engineering Company, Dorchester, Mass., a corporation of Massachusetts

Application January 12, 1938, Serial No. 184,618
10 Claims. (Cl. 139—10)



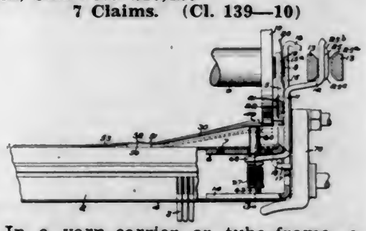
2. In a yarn carrier for Axminster and like looms, a carrier bar, suspension means for the bar including a movable latch, bearings on the bar for rotatably mounting a yarn spool, a brake shoe engageable with the spool, vertically movable spring means on the bar for positioning the shoe in operative relation to the spool, a movable spring-pressed element for augmenting the braking pressure of the shoe, and means operable by said movable latch for rendering said element at least partly inoperative.

2,161,762

YARN CARRIER AND SPOOL BRAKE MECHANISM THEREFOR

Edgar F. Hathaway, Wellesley, and Walter Bixby, Dorchester, Mass., assignors to Shawmut Engineering Company, Dorchester, Mass., a corporation of Massachusetts

Original application January 12, 1938, Serial No. 184,618. Divided and this application May 27, 1938, Serial No. 210,420
7 Claims. (Cl. 139—10)



1. In a yarn-carrier or tube-frame, a spool braking device comprising a brake pad for engaging a spool head, spring means for supporting the pad, including a holding foot underlying the latter, a buttonhole formation in said foot and a button at the under face of the pad for reception by said formation, for removably positioning the pad on the spring means.

2,161,763

PROCESS OF MAKING PAPER PULP

Edwin P. Jones, Garden City, N. Y., assignor to Champagne Paper Corporation, New York, N. Y., a corporation of New York

No Drawing. Application October 6, 1937, Serial No. 167,582
1 Claim. (Cl. 92—13)

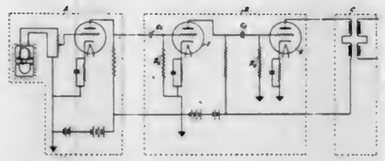
That improved method of producing bleached pulp from flax or hemp tow, which consists in subjecting the tow to a predigestion operation in the presence of water at a steam pressure of from 60 to 80 pounds per square inch for from 25 to 40 minutes, then washing the tow, then subjecting the tow to a cooking operation in a digester with a solution of water of approximately 2 to 4 times the dry weight of the fiber, and 10 percent to 20 percent sodium hydroxide, and one-half to four percent sulphur, the quantities of the chemicals employed in the solution being based on the dry weight of the tow, then washing the cooked fiber to remove water soluble impurities, and bleaching the washed pulp.

2,161,764

METHOD AND MEANS FOR RECORDING SEISMIC WAVES

John P. Minton, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application November 17, 1937, Serial No. 174,972
8 Claims. (Cl. 181—0.5)



3. The method of geophysical exploration that comprises creating a seismic disturbance, detecting vibrations forming a part thereof at a point spaced therefrom, distorting the detected vibrations to make the wave fronts thereof more abrupt by taking a mathematical derivative of the said detected vibrations and making a record solely of said mathematical derivative of said vibrations.

2,161,765

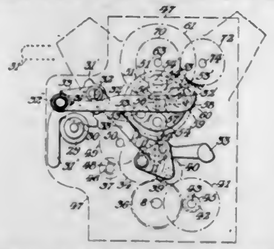
LIQUID DISPENSING APPARATUS COMPUTING REGISTERING MECHANISM

Einar M. Orbeck, Muskegon, Mich., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware

Original application May 27, 1937, Serial No. 145,056. Divided and this application September 18, 1937, Serial No. 164,542
3 Claims. (Cl. 74—349)

1. The combination with a driving element; of change-speed mechanism, operatively connected

with said driving element, and including a detent gear, two conical assemblages of gears, with their axes parallel, the gears in each assemblage being in coaxial relation; a selector gear, adjustable axially, parallel with the axes of said gear assemblages, and transversely thereto, for selective connection with any two opposite gears in said two assemblages; locking means for said change-speed mechanism, including a spring pressed detent lever for engaging teeth of said detent gear, and thereby rendering said change-speed mechanism inoperative unless and until said selector gear is properly engaged with any selected gears of said assemblages; means for releasing said detent lever from engagement with the teeth of said detent gear, consequent upon proper engagement of said selector gear with said assemblages, including a



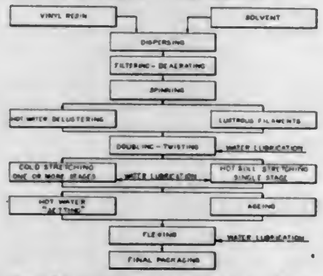
shaft, supporting said selector gear and having a flattened eccentric portion and a concentric cylindrical portion, alternately presentable in registry with said detent lever by rotation of said shaft; said detent lever being engaged with said detent gear by its spring, when the eccentric portion of said shaft is presented to said lever, and said detent lever being displaced from engagement with said detent gear when the cylindrical portion of said shaft is presented to said detent lever; and means for manually turning said shaft, including a blade forming a handle, and a rocker frame holding said blade and axially movable on said shaft with said selector gear; and a slotted element for engaging said blade in any selected position of adjustment of said selector gear and then preventing accidental axial movement of said selector gear.

2,161,766

SYNTHETIC FIBER

Edward W. Rugeley, Theophilus A. Feild, Jr., and John F. Conlon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application September 15, 1937, Serial No. 164,002
16 Claims. (Cl. 28—1)



1. Textile fiber composed of a vinyl resin substantially identical with a resin resulting from the conjoint polymerization of a vinyl halide with a vinyl ester of an aliphatic acid, which contains from about 80% to 95% by weight of the halide in the polymer and which has an average macromolecular weight of at least 15,000.

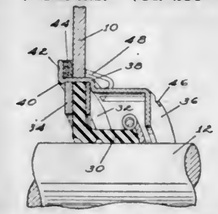
11. A composition suitable for extrusion to form textile filaments composed of a vinyl resin substantially identical with a resin resulting from the conjoint polymerization of a vinyl halide with a vinyl ester of an aliphatic acid, which contains from about 80% to 95% by weight of the halide in the polymer and which has an average macromolecular weight of at least 15,000, dispersed in acetone containing less than 0.60% by weight of water, said dispersion being filterable, clear, viscous and slowly flowable at a temperature of 50° C.

2,161,767

GREASE RETAINER WITH SECURING LUG

Cass B. Russell, Detroit, Mich., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois

Application November 6, 1936, Serial No. 109,487
7 Claims. (Cl. 288—1)



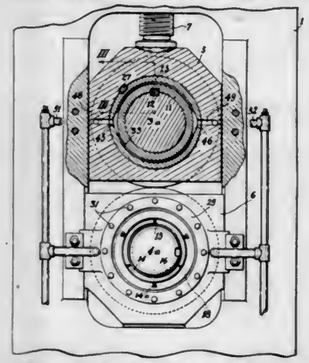
1. A fluid seal, comprising an outer shell, a flexible packing element mounted in the shell, and means integral with the shell for mounting the same in position in a housing, said means including lugs struck upwardly and outwardly from the material of the shell, together with a peripheral flange at the outer end of the shell, and means associated with the flange for retaining the flexible diaphragm in position in the shell, said means comprising an inwardly extending projection at the base of the flange.

2,161,768

SLEEVE-TYPE ROLLING BEARING

John A. Smitmans, Pittsburgh, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania

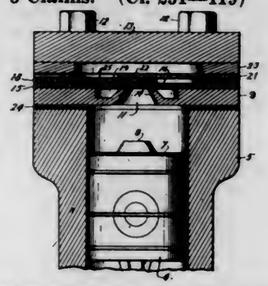
Application November 4, 1937, Serial No. 172,656
9 Claims. (Cl. 308—36.1)



1. A roll neck bearing assembly comprising a roll neck supporting chuck having a bore therein for receiving a roll neck, a bearing sleeve adapted

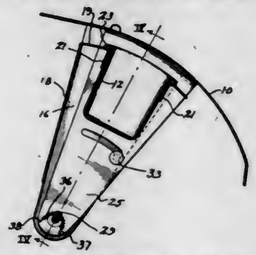
to be attached to and held against relative movement on a roll neck and to fit closely in said bore, means for supplying a lubricant to the contacting bearing surfaces of said chuck and sleeve, and means for slidably engaging the opposite ends of said sleeve which are adapted to resist the dissipation of the pressure of the lubricant film between the sleeve and chuck at the ends of the sleeve.

2,161,769
DISCHARGE VALVE FOR COMPRESSORS AND THE LIKE
Allen Trask, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application March 23, 1936, Serial No. 70,257
8 Claims. (Cl. 251—119)



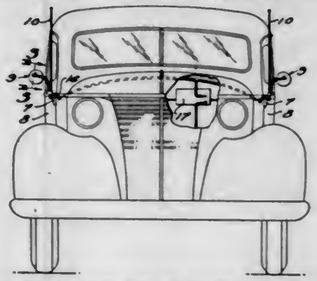
1. In a valve structure, a valve plate, a valve seat in said plate, a valve disc having a flexible flapper valve extending inwardly from an edge portion of the disc along the diameter of a circular opening formed in said disc, means for securing said disc on the plate in position to align the valve with said valve seat, a damping flapper, and means for securing said flapper over the valve with the free end of the flapper in frictional engagement with the movable portion of the valve, said valve and damping flapper being secured, respectively, at diametrically opposed sides of the valve seat and the damping flapper engaging the free portion of the valve, thus tending to hold the end thereof always in contact with the valve plate.

2,161,770
CLOSURE MEANS
John Visser, Grand Rapids, Mich., assignor, by mesne assignments, to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan
Application April 24, 1937, Serial No. 138,765
10 Claims. (Cl. 206—19.5)



10. In a panel assembly, a panel having an aperture therein, a receptacle structure having its ash receiving mouth in alignment with said panel aperture and mounted behind said panel, a disappearing closure member mounted behind said panel for movement from behind said panel into said panel aperture, and means for bodily moving said closure member into said panel aperture as the closure member is moved to its aperture closing position.

2,161,771
VEHICLE ACCESSORY
Arthur S. Alexander, New York, N. Y., assignor, by mesne assignments, to Monarch Governor Company, Detroit, Mich., a corporation of Michigan
Application December 30, 1938, Serial No. 248,473
3 Claims. (Cl. 250—33)



1. For use with a vehicle body, a combined rear vision mirror and radio antenna supporting bracket, said bracket having associated therewith means for insulating the same from the vehicle body and having a base comprising mounting means for securing the same upon said body, said bracket having an arm extending outwardly and upwardly with respect to said base and having a rear vision mirror including a metal backing secured upon its outer end, whereby, when the base is mounted upon the body, the mirror is spaced outwardly from the body, said bracket having antenna rod receiving means at a point spaced outwardly and upwardly from said mounting means for said base, and an antenna rod having its lower end secured to said rod receiving means, whereby, when said bracket is mounted upon said body, the antenna rod is spaced outwardly from the vehicle body, said bracket, said mirror backing and said antenna rod being in continuous electrical contact and all being adapted to serve as radio antenna means.

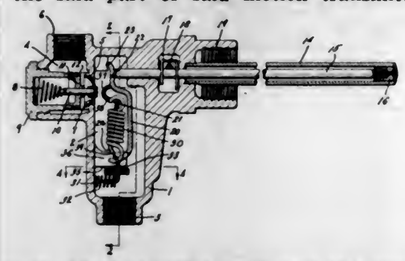
2,161,772
PHENOL STABILIZATION
Thomas S. Carswell, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 17, 1936, Serial No. 74,961
7 Claims. (Cl. 23—250)

1. A method of stabilizing a phenol which comprises adding thereto a compound selected from the class composed of thiourea and substituted thioureas.

2,161,773
THERMOSTATIC VALVE MECHANISM
Joseph A. Cerny, Cleveland, Ohio, assignor to William T. Bentley, Cleveland Heights, Ohio
Application October 1, 1936, Serial No. 103,563
6 Claims. (Cl. 236—48)

1. Thermostatic control mechanism, comprising a chambered casing provided with oppositely disposed spaced abutments, a generally U-shaped actuating lever provided with an operating head

and having the free ends of its arms pivotally mounted upon one side of said abutments, a motion transmitting member mounted in the casing on the other side of said abutments and having a part arranged to travel back and forth between them, a tension spring lying between said arms and extending from said head to a point beyond the pivotal axis of the lever and there connected to the said part of said motion transmitting



member, yieldable means for moving said motion transmitting member in one direction, an operating lever lying alongside the actuating lever, said operating lever at one end moving between said abutments and engaging the motion transmitting member and at the other end being pivotally mounted in the casing, and thermostatic means operatively effective upon said operating lever.

2,161,774
ELECTRIC LIGHTING SOCKET SHOCK INSULATOR
Ralph Cooke, South Belmar, N. J.
Application July 8, 1938, Serial No. 218,169
4 Claims. (Cl. 173—346)

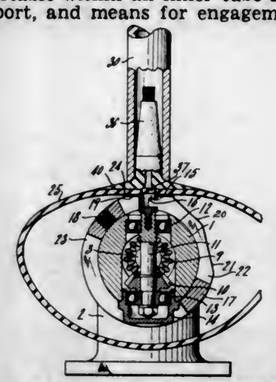


1. An electric lighting socket shock insulator—this said insulator being a safety device having outside cylindrical threads to conform to the inside threads of a standard Edison medium base socket—this said insulator being threaded in the socket, and also removable from said socket, and having a recessed body of insulating material a movable tempered steel spring which has a center contact copper rod attached to its center mounted in the recessed body—this said spring and copper rod to make the corresponding contact in the socket inaccessible in a first position of said spring, and accessible in a second position, and the aforementioned spring being covered by a heat resisting circular piece of mica.

2,161,775
METHOD AND APPARATUS FOR MANUFACTURING INNER TUBES
Grover C. Miller, Los Angeles, and Robert C. Sourwine, Walnut Park, Calif., assignors to Samson Tire & Rubber Corporation, Los Angeles, Calif., a corporation of Delaware
Application September 20, 1935, Serial No. 41,370
12 Claims. (Cl. 154—9)

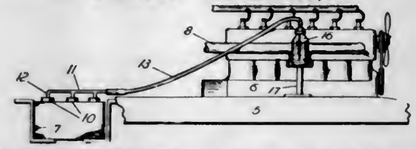
1. In the method of applying to an inner tube a valve stem having a longitudinal passageway, the steps comprising applying the valve stem to an unprepared external surface of the tube and forming an opening in the inner tube in alignment with the passageway in the valve stem from the interior of the inner tube.

5. Apparatus for manipulating inner tubes comprising a support for an end of an inner tube, a cutting member carried by the support and insertable within an inner tube mounted on the support, and means for engagement with a



valve stem carried by the inner tube and directing it toward the cutting member whereby the latter forms an opening through the wall of the inner tube in alignment with the valve stem.

2,161,776
SYSTEM AND MEANS FOR CONTROLLING LIQUID LEVELS IN STORAGE BATTERIES
Francis L. Orr, Denver, Colo., assignor of one-half to Anthony E. Heichemer, Denver, Colo.
Application January 13, 1936, Serial No. 58,901
6 Claims. (Cl. 137—68)

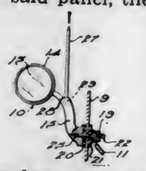


1. The combination with an internal combustion engine, in operative association with a multi-cell storage battery, of a sealed container for air and water disposed adjacent the engine in a position to be influenced by heat emitted from the engine, and a conduit terminating in the container near its bottom and extending through its top into the cells of the battery and terminating at the desired liquid level therein, there being a vent admitting air to each of said cells above the liquid level therein.

2,161,777
MIRROR ASSEMBLY FOR AN AUTOMOBILE BODY
Lowell F. Sarnes, Detroit, Mich., assignor to Monarch Governor Company, Detroit, Mich., a corporation of Michigan
Application September 21, 1938, Serial No. 230,924
4 Claims. (Cl. 250—33)

1. For use with a vehicle body having a hinged front door and a body panel in advance of said door; a combined rear vision mirror and radio antenna supporting bracket, said bracket being insulated from the body panel and having a base adapted to be mounted upon the side of said panel, said bracket having an arm extending outwardly and upwardly with respect to said base and having a rear vision mirror including a metal backing secured upon its outer end, whereby, when the bracket is mounted upon the panel, the mirror is spaced outwardly from the vehicle body, said bracket having antenna rod receiving means at

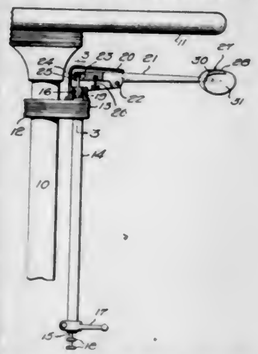
a point spaced outwardly and upwardly from said base, and an antenna rod having its lower end secured to said means, whereby, when said bracket is mounted upon said panel, the antenna rod is



spaced outwardly from the vehicle body, said bracket, said mirror backing and said antenna rod being in continuous electrical contact and all being adapted to serve as radio antenna means.

2,161,778
CONTROL HANDLE DEVICE
Henry W. Hey, Richmond, Va., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application March 15, 1938, Serial No. 196,084
16 Claims. (Cl. 74—484)

1. In combination with a vehicle steering wheel and in such position with respect thereto wheel, a control handle adjacent the steering as to permit access of the hand of the operator to said handle without the operator having to remove his hand from the steering wheel, said handle being mounted to partake of movement in two directions with respect to the steering wheel and comprising portions engageable to effect the

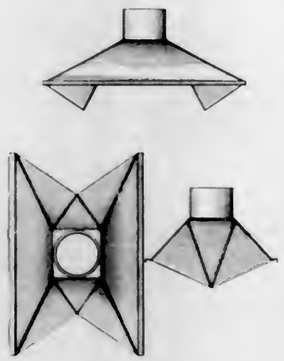


respective movements of the handle, one such portion projecting radially with respect to the steering wheel a greater distance than the other portion to facilitate its engagement independently of such other portion.

DESIGNS

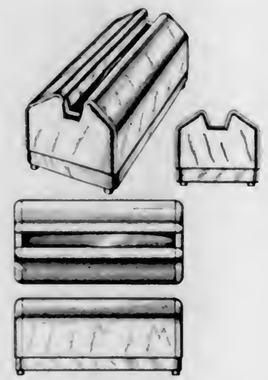
JUNE 6, 1939

115,097
DESIGN FOR A REFLECTOR
George Arras, Chicago, Ill.
Application October 31, 1938, Serial No. 80,793
Term of patent 3½ years



The ornamental design for a reflector, as shown.

115,098
DESIGN FOR A DISPENSER FOR INTERFOLDED SHEETS
Frank L. Broeren, Neenah, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application March 10, 1939, Serial No. 83,491
Term of patent 14 years



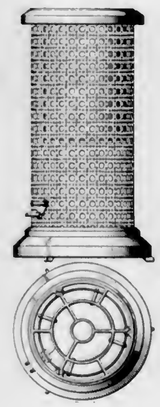
The ornamental design for a dispenser for interfolded sheets, as shown.

115,099
DESIGN FOR A DRESS
Robert Caine, New York, N. Y.
Application April 29, 1939, Serial No. 84,661
Term of patent 3½ years



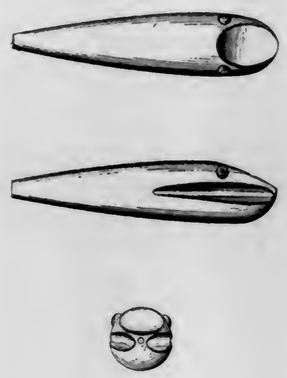
The ornamental design for a dress, substantially as shown and described.

115,100
DESIGN FOR AN ELECTRIC HEATER
James S. De Masters and John W. Keyes, Kansas City, Mo.
Application October 3, 1938, Serial No. 80,213
Term of patent 7 years



The ornamental design for an electric heater, as shown and described.

115,101
DESIGN FOR AN ARTIFICIAL BAIT
George C. Dolive, Winter Park, Fla.
Application March 10, 1939, Serial No. 83,505
Term of patent 7 years



The ornamental design for an artificial bait, as shown.

115,102
DESIGN FOR A JACKET
Louis Elowsky, Brooklyn, N. Y., assignor to Derby Sportswear, Inc., New York, N. Y.
Application April 8, 1939, Serial No. 84,156
Term of patent 3½ years



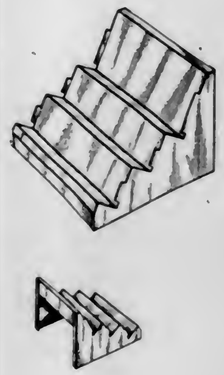
The ornamental design for a jacket, substantially as shown and described.

115,103
DESIGN FOR A DISPLAY RACK OR SIMILAR ARTICLE
Ernest R. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa, a corporation of Iowa
Application March 13, 1939, Serial No. 83,533
Term of patent 7 years



The ornamental design for a display rack or similar article, substantially as shown.

115,104
DESIGN FOR A DISPLAY RACK OR SIMILAR ARTICLE
Ernest R. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa, a corporation of Iowa
Application March 13, 1939, Serial No. 83,534
Term of patent 7 years



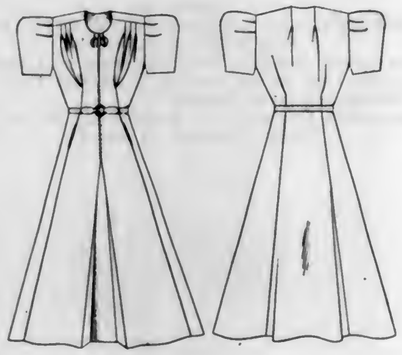
The ornamental design for a display rack or similar article, substantially as shown.

115,105
DESIGN FOR A DRESS
Charlotte Flusser, New York, N. Y.
Application April 8, 1939, Serial No. 84,139
Term of patent 3½ years



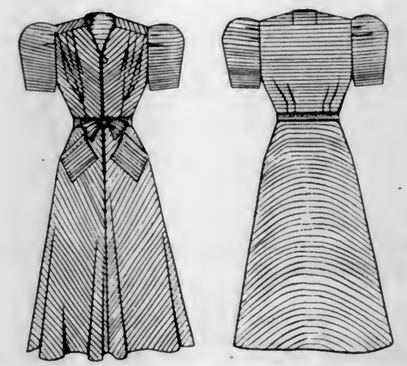
The ornamental design for a dress, substantially as shown and described.

115,106
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,737
Term of patent 3½ years



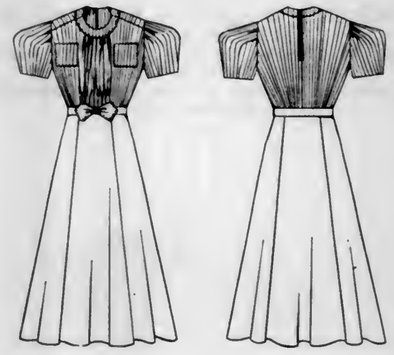
The ornamental design for a dress, substantially as shown.

115,107
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,742
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,108
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,744
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,109
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,749
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,110
DESIGN FOR A CANDLE
Marcia C. Hamblet, New York, N. Y.
Application March 6, 1939, Serial No. 83,359
Term of patent 3½ years



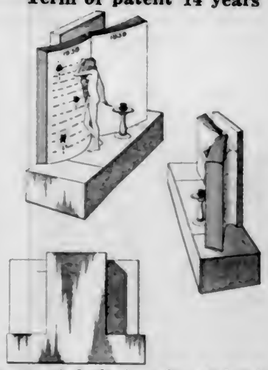
The ornamental design for a candle, substantially as shown and described.

115,111
DESIGN FOR A LADY'S HANDBAG OR SIMILAR ARTICLE
George W. Headley, 3d, New York, N. Y., assignor to Paul E. Flato, New York, N. Y.
Application October 4, 1938, Serial No. 80,241
Term of patent 3½ years



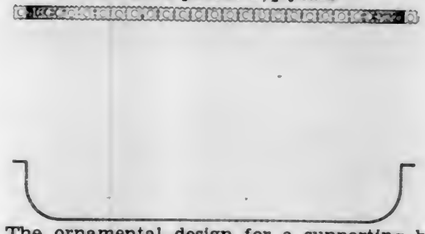
The ornamental design for a lady's handbag or similar article, substantially as shown and described.

115,112
DESIGN FOR A BOOK END
George P. Hendricks, Oakland, Calif., assignor of one-half to John Cruze, Hayward, Calif.
Application March 14, 1939, Serial No. 83,572
Term of patent 14 years



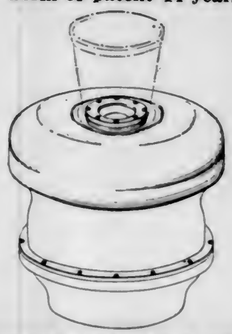
The ornamental design for a book end, substantially as shown.

115,113
DESIGN FOR A SUPPORTING BAR RACK
Ota O. Hobson, Charlton, Iowa
Application July 18, 1938, Serial No. 78,568
Term of patent 3½ years



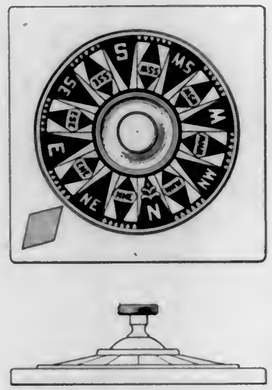
The ornamental design for a supporting bar rack, substantially as shown.

115,114
DESIGN FOR A PORTABLE X-RAY TRANSFORMER HOUSING
Caperton B. Horsley, Toronto, Ontario, Canada, assignor to Sutton-Horsley Company Limited, Toronto, Ontario, Canada
Application February 27, 1939, Serial No. 83,237
Term of patent 14 years



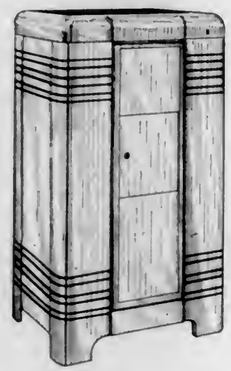
The ornamental design for a portable X-ray transformer housing, substantially as shown.

115,115
DESIGN FOR A GAME DEVICE
Harry E. Hymer, Harrison, N. Y.
Application March 8, 1939, Serial No. 83,431
Term of patent 7 years



The ornamental design for a game device, substantially as shown.

115,116
DESIGN FOR A CABINET FOR CIRCULATING HEATERS
John D. Kaiser, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application March 22, 1939, Serial No. 83,769
Term of patent 14 years



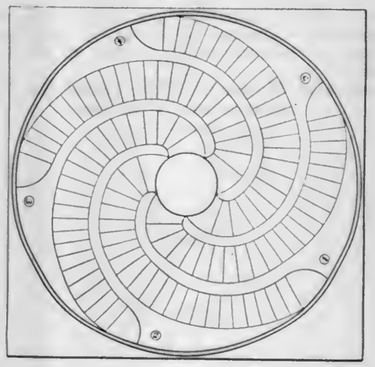
The ornamental design for a cabinet for circulating heater, as shown and described.

115,117
DESIGN FOR A UNIFORM DRESS
Viola A. Levy, New York, N. Y., assignor to Angelica Jacket Company, St. Louis, Mo., a corporation of Missouri
Application February 23, 1939, Serial No. 83,167
Term of patent 3½ years



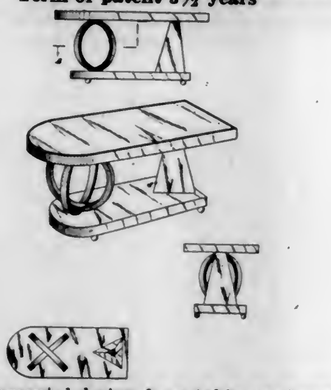
The ornamental design for a uniform dress, substantially as shown.

115,118
DESIGN FOR A GAME BOARD
Bennett Lewis, New York, N. Y.
Application November 8, 1938, Serial No. 80,952
Term of patent 3½ years



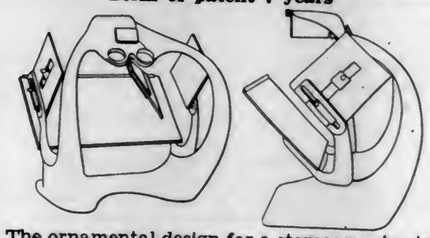
The ornamental design for a game board, substantially as shown and described.

115,119
DESIGN FOR A TABLE
Pasquale Marano, Brooklyn, N. Y.
Application April 4, 1939, Serial No. 84,032
Term of patent 3½ years



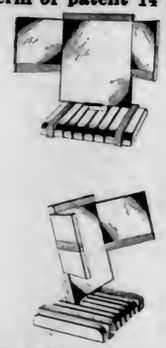
The ornamental design for a table, as shown.

115,120
DESIGN FOR A STEREOCAMPIMETER
John R. Miles, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application February 16, 1939, Serial No. 83,013
Term of patent 7 years



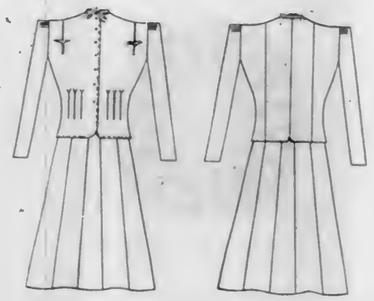
The ornamental design for a stereocampimeter, substantially as shown.

115,121
DESIGN FOR A MIRROR
Arne J. Oker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 24, 1938, Serial No. 76,062
Term of patent 14 years



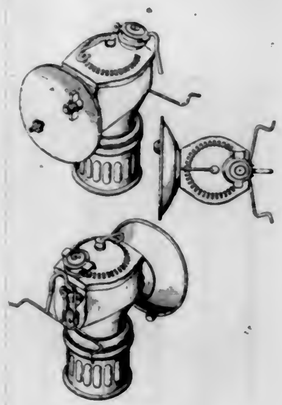
The ornamental design for a mirror, substantially as shown and described.

115,122
DESIGN FOR A SUIT
Adolph Oppenheimer, New York, N. Y.
Application March 18, 1939, Serial No. 83,663
Term of patent 3½ years



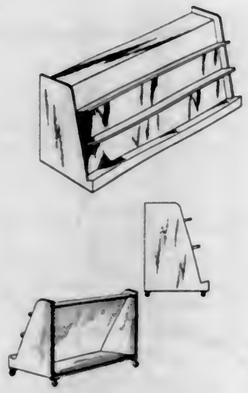
The ornamental design for a suit, substantially as shown and described.

115,123
DESIGN FOR A MINER'S LAMP
Charles S. Packer, Chicago, Ill., assignor to Just-rite Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 22, 1938, Serial No. 80,045
Term of patent 7 years



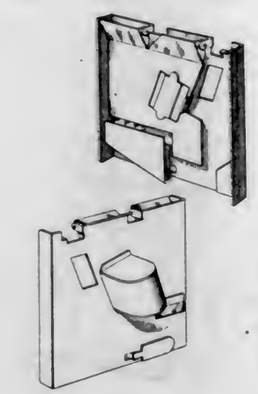
The ornamental design for a miner's lamp, as shown.

115,124
DESIGN FOR A MERCHANDISE DISPLAY RACK
Anthon H. Paschell, Cherokee, Iowa
Application April 11, 1938, Serial No. 76,419
Term of patent 14 years



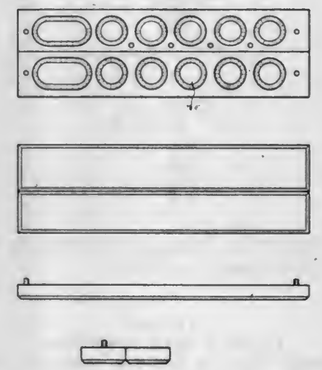
The ornamental design for a merchandise display rack, substantially as shown.

115,125
DESIGN FOR A COIN AND SLUG DETECTOR
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application April 7, 1939, Serial No. 84,108
Term of patent 14 years



The ornamental design for a coin and slug detector, as shown.

115,126
DESIGN FOR A GAME BOARD
Bennett L. Petersen, St. Paul, and Douglas J. Hafften, Minneapolis, Minn.
Application March 8, 1939, Serial No. 83,440
Term of patent 14 years



The ornamental design for a game board, as shown.

115,127
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application May 6, 1939, Serial No. 84,826
Term of patent 3½ years



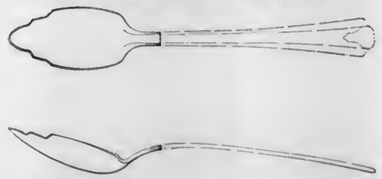
The ornamental design for a brooch or similar article, substantially as shown.

115,128
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application May 6, 1939, Serial No. 84,827
Term of patent 3½ years



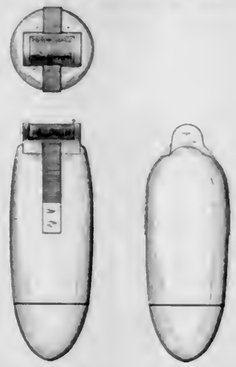
The ornamental design for a brooch or similar article, substantially as shown.

115,129
DESIGN FOR A SPOON
Jefferson Carroll Phillips, Denver, Colo.
Application April 4, 1939, Serial No. 84,043
Term of patent 14 years



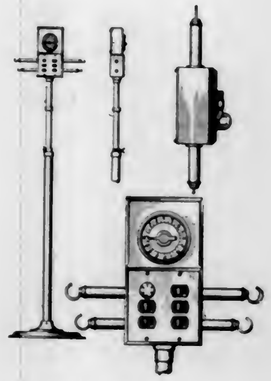
The ornamental design for a spoon, substantially as shown.

115,130
DESIGN FOR AN ELECTRIC RAZOR
Jean O. Reinecke, Chicago, Ill., assignor to Lion Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application October 28, 1938, Serial No. 80,720
Term of patent 14 years



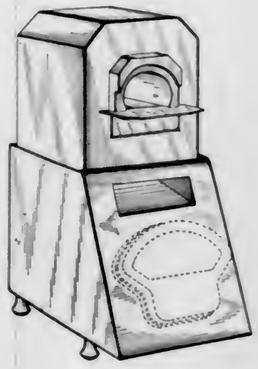
The ornamental design for an electric razor, as shown.

115,131
DESIGN FOR A PERMANENT WAVE MACHINE
Samuel Weldon Rosenthal, New York, N. Y.
Application April 15, 1939, Serial No. 84,318
Term of patent 7 years



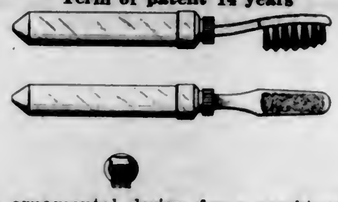
The ornamental design for a permanent wave machine, as shown.

115,132
DESIGN FOR A DENTAL FURNACE OR SIMILAR ARTICLE
Matthew W. Schneider, Chicago, Ill.
Application September 14, 1938, Serial No. 79,890
Term of patent 3½ years



The ornamental design for a dental furnace or similar article, as shown and described.

115,133
DESIGN FOR A COMBINED TOOTH BRUSH AND POWDER HOLDER
Bessie L. Short, Ames, Iowa
Application April 21, 1939, Serial No. 84,482
Term of patent 14 years



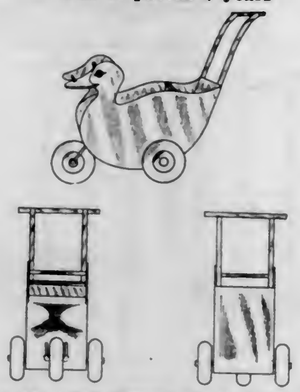
The ornamental design for a combined tooth brush and powder holder, as shown.

115,134
DESIGN FOR A BADGE OR SIMILAR ARTICLE
John Edward Slavin, New Haven, Conn.
Application January 20, 1939, Serial No. 82,497
Term of patent 3½ years



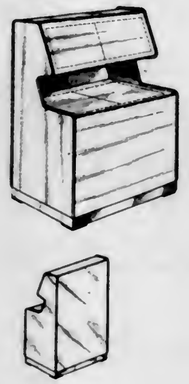
The ornamental design for a badge or similar article, as shown and described.

115,135
DESIGN FOR A BABY COACH OR SIMILAR ARTICLE
Robert O. Snyder, Baltimore, Md.
Application February 15, 1939, Serial No. 83,004
Term of patent 7 years



The ornamental design for a baby coach or similar article, substantially as shown.

115,136
DESIGN FOR A COOLER CABINET OR THE LIKE
Walter F. Vose, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application March 20, 1939, Serial No. 83,698
Term of patent 7 years



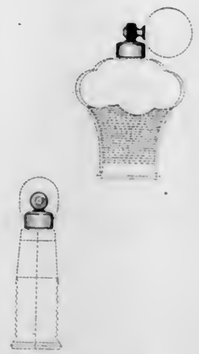
The ornamental design for a cooler cabinet or the like, substantially as shown and described.

115,137
DESIGN FOR AN ATOMIZER
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application February 24, 1939, Serial No. 83,176
Term of patent 7 years



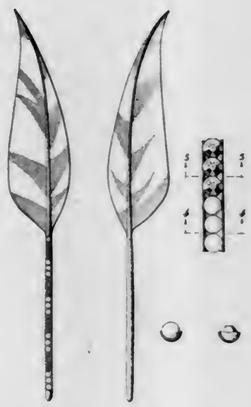
The ornamental design for an atomizer, substantially as shown and described.

115,138
DESIGN FOR AN ATOMIZING DEVICE
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application March 9, 1939, Serial No. 83,478
Term of patent 7 years



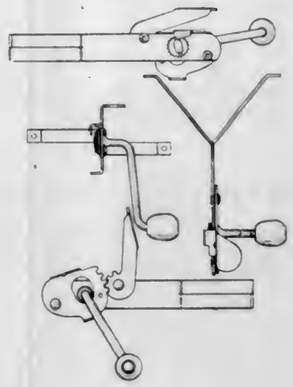
The ornamental design for an atomizing device, substantially as shown and described.

115,139
DESIGN FOR A DECORATED FEATHER
Otis F. Wood, New York, N. Y.
Application October 14, 1938, Serial No. 80,455
Term of patent 14 years



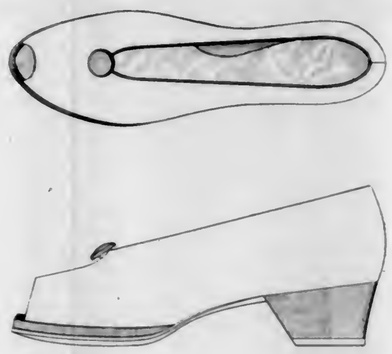
The ornamental design for a decorated feather, substantially as shown and described.

115,140
DESIGN FOR A CAN OPENER
Myron J. Zimmer, Chicago, Ill., assignor to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application October 19, 1938, Serial No. 80,557
Term of patent 14 years



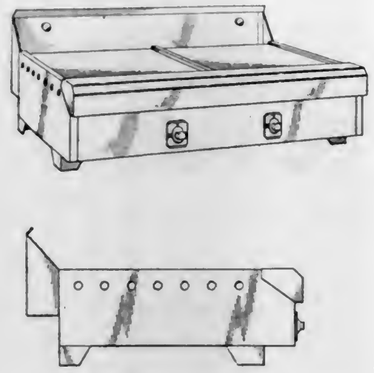
The ornamental design for a can opener, as shown and described.

115,141
DESIGN FOR A SLIPPER OR SIMILAR ARTICLE
Jack Barnett, Brooklyn, N. Y.
Application April 20, 1939, Serial No. 84,430
Term of patent 3½ years



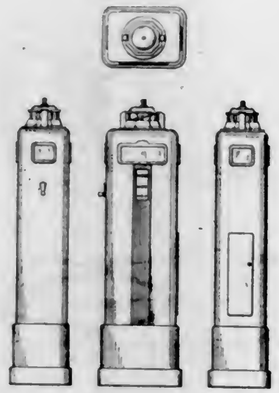
The ornamental design for a slipper or similar article, substantially as shown.

115,142
DESIGN FOR A GRILL
John Bergholm, Chicago, Ill.
Application March 3, 1939, Serial No. 83,316
Term of patent 3½ years



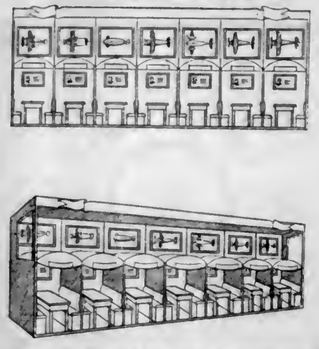
The ornamental design for a grill, substantially as shown.

115,143
DESIGN FOR A HOUSING FOR DISPENSING APPARATUS
Hosmer L. Blum, Fort Wayne, Ind.
Application November 25, 1938, Serial No. 81,362
Term of patent 7 years



The ornamental design for a housing for dispensing apparatus, as shown and described.

115,144
DESIGN FOR A RESTAURANT BOOTH UNIT
Cleophas A. Deravin, New York, N. Y.
Application January 10, 1939, Serial No. 82,263
Term of patent 3½ years



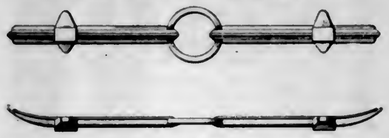
The ornamental design for a restaurant booth unit, substantially as shown and described.

115,145
DESIGN FOR A COMBINED RADIO CABINET AND BOOKCASE
David Dillon, New York, N. Y.
Application February 18, 1938, Serial No. 75,243
Term of patent 3½ years



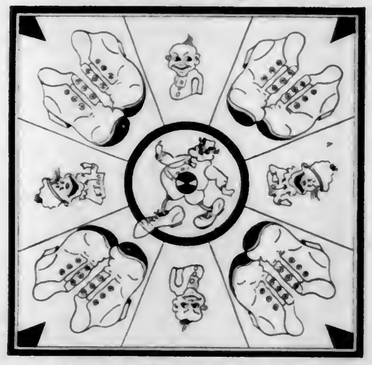
The ornamental design for a combined radio cabinet and bookcase, substantially as shown and described.

115,146
DESIGN FOR AN AUTOMOBILE BUMPER
Jeronimo Falcon, Buenos Aires, Argentina, assignor to Auto-Rapid Products Corporation, a corporation of New York
Application March 27, 1939, Serial No. 83,845
Term of patent 7 years



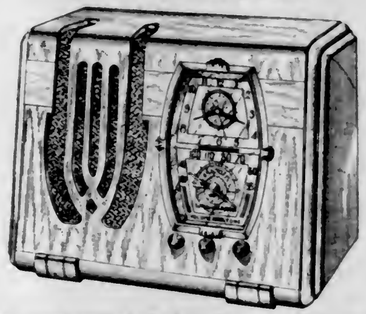
The ornamental design for an automobile bumper, as shown.

115,147
DESIGN FOR A GAME BOARD OR SIMILAR ARTICLE
Samuel Finkelstein, Brooklyn, N. Y.
Application April 20, 1939, Serial No. 84,420
Term of patent 3½ years



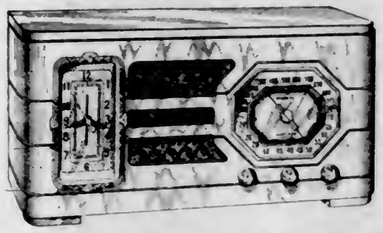
The ornamental design for a game board or similar article, as shown and described.

115,148
DESIGN FOR A RADIO RECEIVING SET
David Housman, Boston, Mass.
Application March 13, 1939, Serial No. 83,543
Term of patent 3½ years



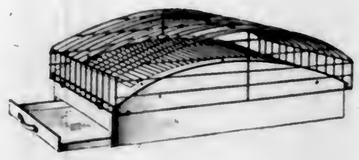
The ornamental design for a radio receiving set, as shown and described.

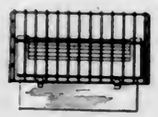
115,149
DESIGN FOR A RADIO RECEIVING SET
David Housman, Boston, Mass.
Application March 14, 1939, Serial No. 83,568
Term of patent 3½ years



The ornamental design for a radio receiving set, as shown and described.

115,150
DESIGN FOR AN INSECT TRAP
Darwin S. Karr, Los Angeles, Calif.
Application March 29, 1939, Serial No. 83,908
Term of patent 14 years





The ornamental design for an insect trap, as shown.

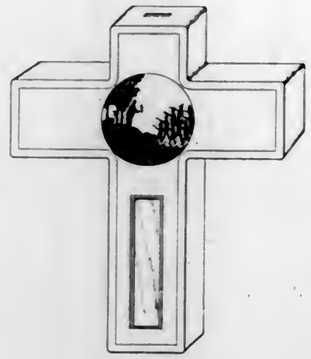
115,151
DESIGN FOR A CHILD'S SLIPPER
Max Linder, Brooklyn, N. Y.
Application April 18, 1939, Serial No. 84,368
Term of patent 3½ years





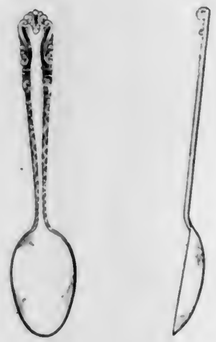
The ornamental design for a child's slipper, substantially as shown and described.

115,152
DESIGN FOR A CONTRIBUTION BOX
Ethel Mae Richardson, Hartford, Conn.
Application July 14, 1938, Serial No. 78,477
Term of patent 7 years



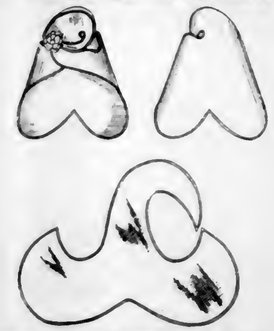
The ornamental design for a contribution box, as shown.

115,153
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Frank S. Trumbull, Providence, R. I.
Application April 27, 1939, Serial No. 84,587
Term of patent 3½ years



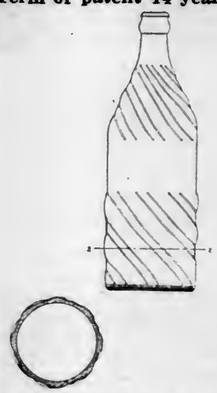
The ornamental design for a spoon or similar article substantially as shown.

115,154
DESIGN FOR A HAT OR SIMILAR ARTICLE
Marinette Blanc, New York, N. Y.
Application April 29, 1939, Serial No. 84,667
Term of patent 3½ years



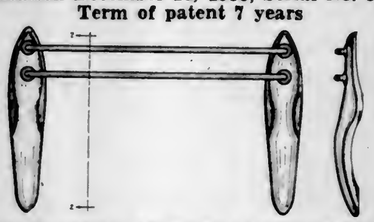
The ornamental design for a hat or similar article, substantially as shown.

115,155
DESIGN FOR A BOTTLE
Thomas D'Addario, Long Island City, N. Y., assignor to N. H. Darsky, Joe Darsky, Julius Darsky, and Carl Lockshin, Youngstown, Ohio
Application April 6, 1939, Serial No. 84,092
Term of patent 14 years



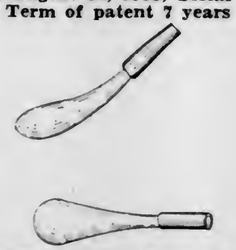
The ornamental design for a bottle, as shown.

115,156
DESIGN FOR AN AUTOMOBILE GRILLE GUARD
Louis A. Koch, Louisville, Ky.
Application December 14, 1938, Serial No. 81,772
Term of patent 7 years



The ornamental design for an automobile grille guard, as shown.

115,157
DESIGN FOR A CLEANING DEVICE FOR PIPE STEMS, CIGAR AND CIGARETTE HOLDERS
Virginia Lind, Atlanta, Ga.
Application August 31, 1938, Serial No. 79,661
Term of patent 7 years



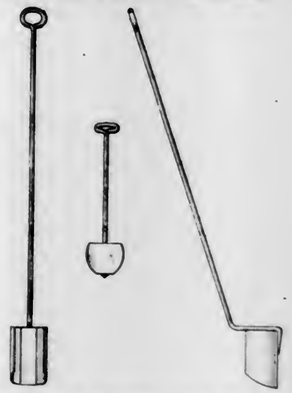
The ornamental design for a cleaning device for pipe stems, cigar and cigarette holders, as shown.

115,158
DESIGN FOR A FLUORESCENT TUBE SOCKET CROWN
Frederick K. Maerz, New York, N. Y., assignor to Harry J. Gruber and Max D. Gruber, doing business as Gruber Bros., New York, N. Y.
Application February 13, 1939, Serial No. 82,953
Term of patent 3½ years



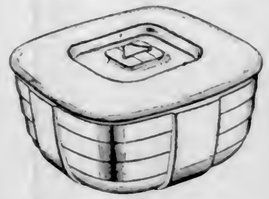
The ornamental design for a fluorescent tube socket crown, substantially as shown.

115,159
DESIGN FOR A SHOVEL
Chester I. Nelson, Davenport, Iowa
Application April 12, 1938, Serial No. 76,444
Term of patent 14 years



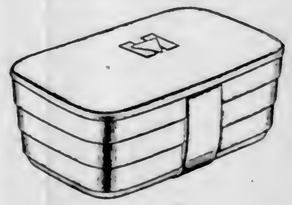
The ornamental design for a shovel, substantially as shown.

115,160
DESIGN FOR A COMBINED RECEPTACLE AND COVER THEREFOR
Walter T. Stopa, Chicago, Ill., assignor to Edison General Electric Appliance Company, a corporation of New York
Application December 14, 1938, Serial No. 81,781
Term of patent 14 years



The ornamental design for a combined receptacle and cover therefor, as shown.

115,161
DESIGN FOR A COMBINED RECEPTACLE AND COVER THEREFOR
Walter T. Stopa, Chicago, Ill., assignor to Edison General Electric Appliance Company, a corporation of New York
Application December 14, 1938, Serial No. 81,782
Term of patent 14 years



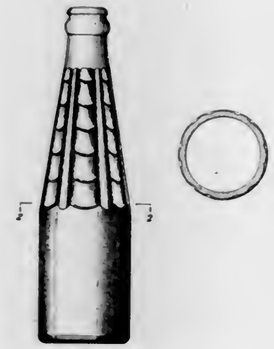
The ornamental design for a combined receptacle and cover therefor, as shown.

115,162
DESIGN FOR A JAR
Frasier Smith, Wheeling, W. Va., assignor to Seeman Brothers, New York, N. Y., a corporation of New York
Application March 13, 1939, Serial No. 83,556
Term of patent 7 years



The ornamental design for a jar, as shown.

115,163
DESIGN FOR A BOTTLE
Lee C. Ward, Los Angeles, Calif., assignor to Tru-Ade Inc., Los Angeles, Calif., a corporation of California
Application November 23, 1938, Serial No. 81,308
Term of patent 14 years



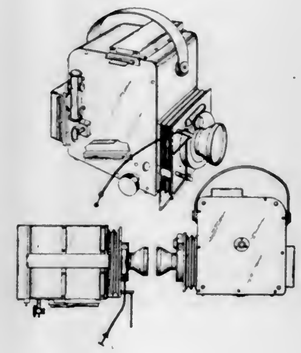
The ornamental design for a bottle, as shown.

115,164
DESIGN FOR AN EVENING WRAP
Fannie Zucker, New York, N. Y.
Application May 3, 1939, Serial No. 84,758
Term of patent 3½ years



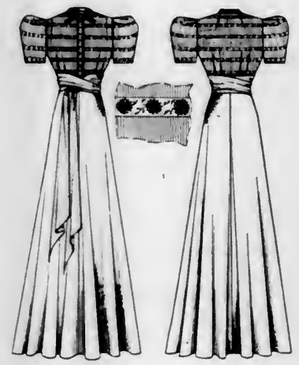
The ornamental design for an evening wrap, substantially as shown.

115,165
DESIGN FOR A COLOR CAMERA
Thomas S. Curtis, La Canada, Calif.
Application March 18, 1939, Serial No. 83,676
Term of patent 7 years



The ornamental design for a color camera, as shown.

115,166
DESIGN FOR A DRESS
Charlotte Flusser, New York, N. Y.
Application March 9, 1939, Serial No. 83,445
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,167
DESIGN FOR A COMFORTABLE
Lawrence Goodstein, New York, N. Y.
Application April 25, 1939, Serial No. 84,544
Term of patent 3½ years

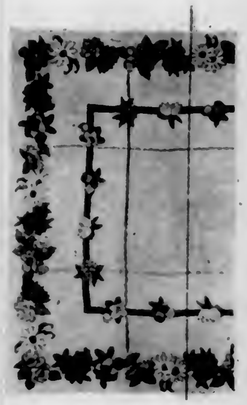


The ornamental design for a comfortable, substantially as shown, and described.

115,168
DESIGN FOR A ROASTER
Donald L. Hadley, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application March 10, 1938, Serial No. 75,762
Term of patent 14 years

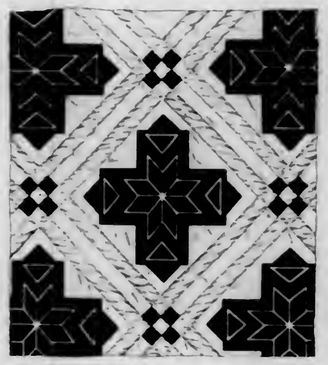
The ornamental design for a roaster, substantially as shown.

115,169
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
John S. Madsen, New York, N. Y.
Application April 29, 1939, Serial No. 84,665
Term of patent 3½ years



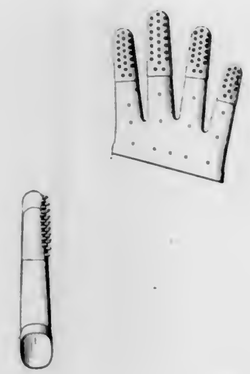
The ornamental design for a tablecloth or similar article, substantially as shown and described.

115,170
DESIGN FOR A TEXTILE FABRIC
Annie Wolff Noy, Brooklyn, N. Y., assignor to Bates Manufacturing Company, Lewiston, Maine, a corporation of Maine
Application December 30, 1938, Serial No. 82,080
Term of patent 14 years



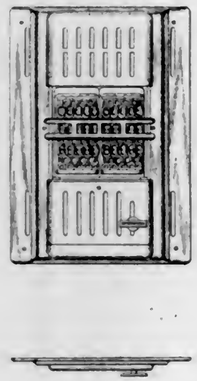
The ornamental design for a textile fabric, substantially as shown.

115,171
DESIGN FOR A MASSAGE GLOVE
John A. O'Leary, Hollywood, Calif.
Application February 13, 1939, Serial No. 82,936
Term of patent 14 years



The ornamental design for a massage glove, as shown.

115,172
DESIGN FOR A FRONT FOR A WALL HEATER
Paul C. Perrin, Pittsburgh, Pa., assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application August 13, 1938, Serial No. 79,309
Term of patent 7 years



The ornamental design for a front for a wall heater, as shown.

115,173
DESIGN FOR A PORTABLE ELECTRIC HUMIDIFIER
Elmer A. Reid, Morrisville, Pa.
Application March 17, 1939, Serial No. 83,635
Term of patent 7 years



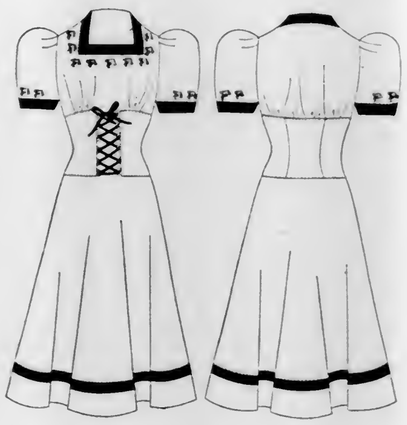
The ornamental design for a portable electric humidifier, substantially as shown and described.

115,174
DESIGN FOR A DRESS
Jules Roth, New York, N. Y.
Application May 13, 1939, Serial No. 84,958
Term of patent 3½ years



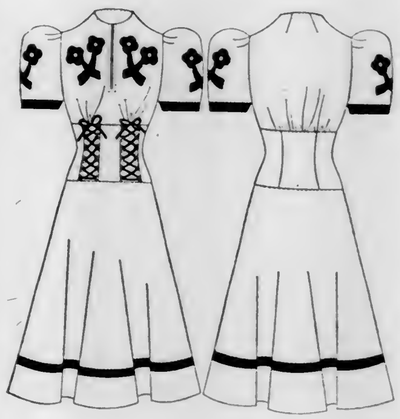
The ornamental design for a dress, substantially as shown.

115,175
DESIGN FOR A DRESS
Jules Roth, New York, N. Y.
Application May 13, 1939, Serial No. 84,960
Term of patent 3½ years



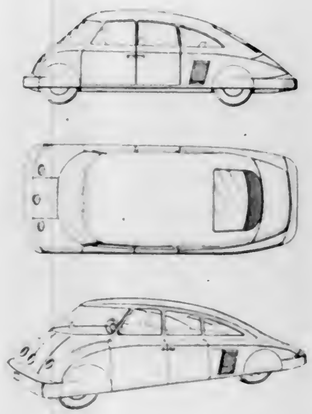
The ornamental design for a dress, substantially as shown.

115,176
DESIGN FOR A DRESS
Jules Roth, New York, N. Y.
Application May 13, 1939, Serial No. 84,962
Term of patent 3½ years



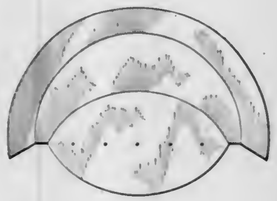
The ornamental design for a dress, substantially as shown.

115,177
DESIGN FOR AN AUTOMOBILE
Walter Dorwin Teague and Walter Dorwin Teague, Jr., New York, N. Y.
Application November 7, 1938, Serial No. 80,918
Term of patent 7 years



The ornamental design for an automobile, substantially as shown.

115,178
DESIGN FOR A LICENSE PLATE FOR AUTOMOBILES
Francis D. Tweeddale, Pomona, Calif.
Application January 6, 1939, Serial No. 82,206
Term of patent 7 years



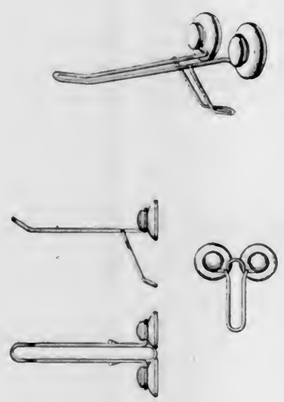
The ornamental design for a license plate for automobiles, as shown and described.

115,179
DESIGN FOR A COMFORTABLE
Lawrence Goodstein, New York, N. Y.
Application April 25, 1939, Serial No. 84,545
Term of patent 3½ years



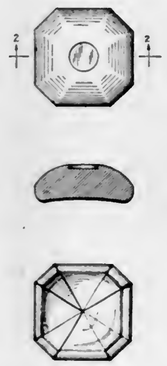
The ornamental design for a comfortable, substantially as shown.

115,180
DESIGN FOR A WALL SHOWER BRACKET
Orloff W. Holden, Chicago, Ill.
Application March 3, 1939, Serial No. 83,307
Term of patent 7 years



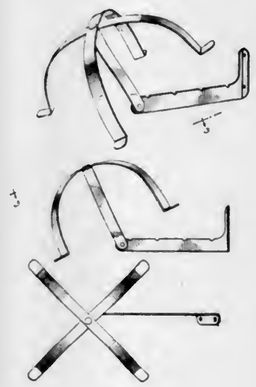
The ornamental design for a wall shower bracket, substantially as shown.

115,181
DESIGN FOR A CAKE OF SOAP OR THE LIKE
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application August 19, 1937, Serial No. 71,189
Term of patent 7 years



The ornamental design for a cake of soap or the like, substantially as shown.

115,182
DESIGN FOR A COMBINED HAT HOLDER AND COAT HANGER SUPPORTING BAR
Charles A. Pipenhagen, Chicago, Ill.
Application March 4, 1939, Serial No. 83,339
Term of patent 14 years



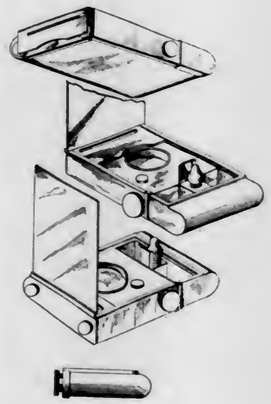
The ornamental design for a combined hat holder and coat hanger supporting bar, as shown.

115,183
DESIGN FOR A DRESS
Jules Roth, New York, N. Y.
Application May 13, 1939, Serial No. 84,963
Term of patent 3½ years



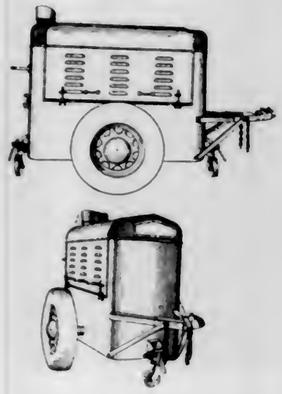
The ornamental design for a dress, substantially as shown.

115,184
DESIGN FOR AN ILLUMINABLE COMPACT OR SIMILAR ARTICLE
George Zumft, Stony Brook, N. Y.
Application April 2, 1938, Serial No. 76,255
Term of patent 7 years



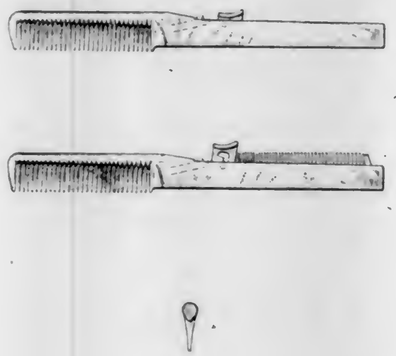
The ornamental design for an illuminable compact or similar article, as shown and described.

115,185
DESIGN FOR A PORTABLE STEAM CLEANING APPARATUS
Alick Clarkson, Bloomingdale Township, Du Page County, Ill.
Application December 5, 1938, Serial No. 81,594
Term of patent 7 years



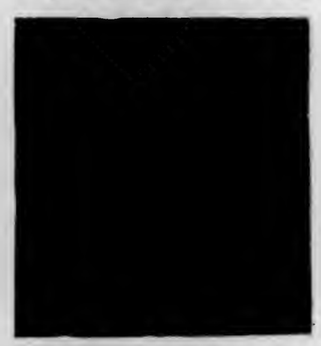
The ornamental design for a portable steam cleaning apparatus, as shown and described.

115,186
DESIGN FOR A COMBINED COMB AND CURLER
Leonard G. Arpin, New York, N. Y., and Andrew J. Bedwell, Fort Lauderdale, Fla.
Application November 1, 1938, Serial No. 80,808
Term of patent 14 years



The ornamental design for a combined comb and curler, as shown and described.

115,187
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application April 24, 1939, Serial No. 84,530
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

115,188
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application April 24, 1939, Serial No. 84,531
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

Patents Nos. 2,161,779 to 2,162,688

THE OFFICIAL GAZETTE

OF THE

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June 13, 1939

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Total	1,282		

Notices of Cancellation

U. S. Patent Office, *Washington, D. C., May 15, 1939.*

Advance Neckwear Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Stetson Shirt Co., Inc., 1182 Broadway, New York, N. Y., to effect the cancellation of trade-mark registration No. 238,799, issued February 14, 1928, to Advance Neckwear Co., 37-39 East Twenty-first Street, New York, N. Y., and a notice of such proceeding sent by registered mail to said Advance Neckwear Co. having been returned by the post omce as undeliverable, notice is hereby given that unless said Advance Neckwear Co., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., May 19, 1939.*

West Indies Fruit Importing Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Hawaiian Pineapple Company, Ltd., Iwelei Road, Honolulu, Territory of Hawaii, and 215 Market Street, San Francisco, Calif., to effect the cancellation of trade-mark registration No. 238,184, issued January 31, 1928, to West Indies Fruit Importing Company, 1425 South Racine Avenue, Chicago, Ill., and a notice of such proceeding sent by registered mail to said West Indies Fruit Importing Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said West Indies Fruit Importing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Interference Notice

U. S. Patent Office, *Washington, D. C. May 19, 1939.*

W. H. Pollard, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Central Wisconsin Canneries, Beaver Dam, Wis., for registration of a trade-mark and trade-mark registered April 20, 1926, No. 211,895, to W. H. Pollard, 354 South Front Street, Memphis, Tenn., and the notice of such proceeding sent by registered mail to said W. H. Pollard at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said W. H. Pollard, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Adjudicated Patents

(C. C. A. 7th.) Wheatley patent, No. 1,621,388, for rubber flap, *Held* invalid. *Wheatley* v. *Rex-Hide, Inc.*, 102 F.(2d) 940.

(D. C. N. Y.) Candas patent, No. 1,798,867, for brooch and the like, claims 1 and 2 *Held* valid and infringed, and claims 3 and 4 *Held* not infringed. *Cohn & Rosenberger* v. *Leading Jewelry Mfg. Co.*, 27 F. Supp. 43.

(D. C. Pa.) Schellenger patent, No. 1,920,217, for rheostat, *Held* valid and infringed. *Chicago Telephone Supply Co.* v. *Stackpole Carbon Co.*, 27 F. Supp. 27.

(C. C. A. Pa.) Pelk patent, No. 1,953,566, for blasting machine, claims 8, 9, 12, 14, and 17 *Held* valid and infringed. *Pittsburgh Forgings Co.* v. *American Foundry Equipment Co.*, 102 F.(2d) 964.

(D. C. N. Y.) Devender and Devender patent, No. 1,972,512, for button, claims 1 and 5 *Held* invalid. *Devender* v. *C. & C. Button & Trimming Co.*, 27 F. Supp. 38.

(D. C. Pa.) Schellenger patent, No. 1,996,175, for rheostat, *Held* invalid, but if valid, infringed. *Chicago Telephone Supply Co.* v. *Stackpole Carbon Co.*, 27 F. Supp. 27.

Condition of Applications Under Examination at Close of Business May 27, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,210; Trade-Mark Division, 1,380. Oldest new case, Oct. 6, 1938; oldest amended, Aug. 15, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	†Dec. 23	†Dec. 27	721
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	†Dec. 19	†Dec. 23	618
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 1	Apr. 1	388
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Feb. 17	Feb. 1	431
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Mar. 10	Mar. 7	513
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	†Nov. 21	†Nov. 25	1165
5725	7. JARBOE, C. G., Optics; Photography	Feb. 13	Feb. 14	899
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 27	†Aug. 15	991
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Jan. 27	Jan. 18	674
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Feb. 17	Feb. 24	613
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Feb. 16	Feb. 9	445
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	†Dec. 7	†Dec. 2	575
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Dec. 13	†Dec. 13	666
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Mar. 16	Mar. 11	449
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 14	Jan. 16	1147
5716	16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 27	†Dec. 20	804
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 2	Feb. 2	469
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 9	†Dec. 6	552
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 1	Jan. 9	425
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Mar. 9	Mar. 7	316
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 6	Feb. 23	511
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Jan. 12	Jan. 12	839
7624	23. BUTTNER, W. J., Registers (part)	†Nov. 3	†Oct. 24	268
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 9	†Dec. 7	1063
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 25	Mar. 2	489
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 24	Jan. 27	611
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Nov. 16	†Oct. 18	1149
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 14	Feb. 8	472
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Jan. 10	671
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Dec. 22	†Dec. 21	867
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Feb. 27	Feb. 23	612
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Feb. 24	Jan. 30	390
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Feb. 14	Mar. 6	661
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Feb. 17	Feb. 8	342
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Feb. 13	Mar. 1	566
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 3	Jan. 6	516
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Jan. 12	Jan. 5	671
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	†Nov. 12	†Nov. 14	671
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 20	Feb. 18	551
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	†Dec. 27	†Dec. 27	1418
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	†Dec. 12	†Dec. 28	334
5882	42. CUTTING, H. O., Electric Signaling	†Nov. 14	†Nov. 2	617
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Feb. 7	Jan. 4	470
4087B	44. HARVEY, L. P., Refrigeration	†Dec. 23	†Dec. 20	637
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Jan. 24	Feb. 3	592
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Jan. 5	Jan. 5	662
6082	47. LOWE, E. R. (Act.), Clutches; Brakes	Feb. 7	Feb. 8	399
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 1	Mar. 2	411
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	†Nov. 7	†Oct. 15	1026
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Nov. 29	†Dec. 1	1206
5628	51. BACKUS, C. D., Radiant Energy (part)	Feb. 27	Feb. 27	643
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Jan. 18	Jan. 9	833
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Feb. 15	Jan. 7	563
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 10	Mar. 2	299
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Oct. 6	†Oct. 8	758
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	†Dec. 16	†Dec. 16	1136
6613	57. NICOLSON, O. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Jan. 25	Feb. 1	446
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Feb. 3	Feb. 6	369
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Feb. 20	Feb. 20	577
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Jan. 25	Jan. 25	417
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	†Dec. 24	Jan. 3	503
5621	62. PUGH, E. C., Games; Geometrical Instruments	Mar. 4	Mar. 20	437
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Feb. 1	Jan. 23	365
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Jan. 30	Jan. 30	872
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	†Dec. 5	Jan. 5	606
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	Apr. 27	May 10	1287
	{Labels and Prints	May 20	May 26	93
2605	Designs: H. H. KALUPY	Apr. 5	May 3	863

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

PARKER *v.* BALLANTINE

No. 4,026. Decided January 23, 1939.

[100 F.(2d) 220]

INTERFERENCE—PRIORITY—RIGHT TO MAKE COUNT.

Record reviewed in an interference involving a reissued patent of the senior party B and a reissue application of the junior party P and *Held* that the invention of the count was not disclosed either inherently or otherwise in the original P application and that priority was properly awarded to B.

APPEAL from Patent Office. Affirmed.

Mr. J. F. Mothershead (*Mr. T. Hayward Brown* of counsel) for Parker.

Mr. Harry G. Grover, (*Mr. C. L. Davis, Mr. Ira J. Adams, Mr. A. S. Greenberg* and *Mr. J. G. Norton* of counsel) for Ballantine.

BLAND, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office in an interference proceeding between the senior party Ballantine, appellee, and the junior party Parker, appellant.

In order that the subsequent discussion may be more readily understood it is thought proper to state at this point in the decision that, in view of our conclusion, the sole issue to be determined is whether or not the party Parker can make the one count in issue which is a claim copied from the reissued patent of the appellee Ballantine.

On May 23, 1933, Ballantine obtained Reissue Patent No. 18,835, being a reissue of his original Patent No. 1,723,719, granted August 6, 1929, on an application filed January 9, 1923, the application for reissue being filed June 13, 1930.

Parker obtained on June 5, 1928, original Patent No. 1,672,037, on an application filed March 12, 1924.

The original applications of Ballantine and Parker were thus co-pending. Both parties rely upon the disclosures in their original applications. Ballantine, as is above shown, was the senior party. He took no testimony and relied upon his filing date as the basis for his claim of priority.

On May 28, 1930, Parker filed application for reissue of his said Patent No. 1,672,037. In due course certain of the new claims were rejected on Ballantine's original Patent No. 1,723,719. Six days after Ballantine's reissued patent was granted, Parker, in his reissue application, copied three of the claims appearing in the Ballantine reissued patent and an interference was duly declared on the said three claims as counts of the interference.

Ballantine moved for dissolution of the interference on the ground, among others, that the counts were not supported by the disclosure of Parker's original application. The Primary Examiner, after hearing the arguments, held that Parker could not make two of the claims but that he could make one of them—the claim corresponding to the count of this interference. Parker took no appeal as to the ruling on the two first-above-referred to claims and proceeded to take testimony to support his allegations as to priority of the single count here involved.

The Examiner of Interferences held that there being no new evidence before him which was not before the Primary Examiner, he was precluded, under rule 130, from ruling on the question of dissolution on the ground that Parker could not make the claim. The Examiner of Interferences held that the proof submitted by Parker warranted granting him priority on the count.

Upon appeal, the Board of Appeals, after carefully considering the Parker disclosure, concluded that the invention of the count at bar was not disclosed in Parker's original application and that Parker could not make the claim. The Board furthermore held, after considering the Parker testimony, that if it was subsequently held that Parker could make the claim, it was of the opinion that the testimony adduced

> does not necessarily conform to the application disclosure, i. e., if the results here involved were attained, it is conceivable that they are attained by a procedure corresponding to that taught by Ballantine rather than that taught by Parker.

The single count of the interference reads as follows:

> 1. In an electrical communication system, the combination with a high frequency amplifier of side band modulated carrier energy and means impressing upon an amplification-control circuit of said amplifier a direct current potential appropriate for the normal amplification of relatively weak carrier energy, of means effective automatically to reduce the amplification of said amplifier as the carrier strength increases, said second means comprising a rectifier, means transmitting to said rectifier the modulated carrier output of said amplifier, and circuit elements for superposing upon said direct current potential a second potential derived from said rectifier and varying in magnitude with the rectified modulated carrier energy.

Both parties are in agreement that the invention of the count is predicated upon a combination of elements which constitute an electrical communication system which system involves—

> "means effective automatically to reduce the amplification of said amplifier as the carrier strength increases."

As we understand it, the gist of the invention in the combination forming the communication system rests in automatically reducing amplification of the amplifier as the strength of the carrier wave or signal increases, and we find it unnecessary to consider any other feature of the count. Other questions are discussed in the briefs of the parties, but in view of our conclusion that Parker in his original application made no disclosure of this feature, it is unnecessary for us to deal more than superficially with any other phase of the question.

Appellant states that he has concurring conclusions by the Primary Examiner and the Examiner of Interferences on his right to make the count. Under the facts hereinbefore stated, we think that this statement is inaccurate.

The object of Parker's original invention as stated in his Patent No. 1,672,037 was the amplification of electrical currents, particularly the amplification of high frequency electrical currents modulated at low or audible frequency. He states:

A particular object of the invention is the efficient amplification of the currents at high frequency and having so amplified the currents to reduce them to low frequencies and further amplifying the low frequency currents in the presence of the high frequency currents, using the same amplifying devices for the dual function.

For the purpose of obtaining this *efficient amplification*, Parker used a biasing battery (commonly known as a "C" battery) by which the grids of his amplifier tubes were worked "at a *most efficient* potential for amplification". [Italics ours.]

It will be seen that if Parker was seeking to get the best amplification obtainable, as his phrase "at a most efficient potential for amplification" would seem to indicate, he could not have had in mind the automatic reduction of amplification as the carrier strength increased, and there is no indication that he aimed to supplement the normal bias on the radio-frequency tubes in such a manner as to cut down signal strength.

The Primary Examiner, in refusing to dissolve the interference as to count 1 at bar, stated that the count must be held to define that which is inherent in the system and that it was possible that Parker's original patent showed that his system would operate in the manner of the count. He said:

• • • Parker's original claims on the structure of the system defined one, such that there *might well be* a reduction of certain amplification consistently with the broad statement regarding amplification, and in fact, as above noted, this count will actually read onto the system which such claims cover. Under these circumstances this count must be held to define that which is *inherent* in the system. • • • [Italics ours.]

The Board of Appeals, in passing upon the question of whether Parker could make the count, said:

In coming to the conclusion that the Parker disclosure supports count 1, the Primary Examiner construed the reference in the specification to "biasing at a most efficient potential for amplification" to mean biasing at the center of that portion of the tube characteristic which most nearly approaches a straight line. We think it well understood now, and it doubtless was also at the time Parker filed his application, that an amplifier would work most efficiently when so biased.

It is the Examiner's view that an amplifier such as disclosed by Parker, when biased at the stated point on the characteristic curve, would inherently have its efficiency reduced by the addition of a further direct current component to the bias. It is clear enough that the circuit shown would aid such a component but we are not satisfied that its value would be such as to change, to any material extent, the amplification characteristics of the tube. The characteristic curve of an amplifying tube has a considerable portion which approaches a straight line. Operation of the tube with a bias at any point along this portion would not appreciably change the amplifying efficiency of the tube. Moreover, it is not clear that in operating a set such as disclosed in the application, the bias would not be changed intentionally as a shift was made from one station to another. If, as the specification states, the receiver is to be biased for most efficient amplification, we think it fair to assume that this bias would be changed from station to station in order to maintain this efficiency for all conditions of operation; in other words, that the bias would be maintained at all times on the straight portion of the tube characteristic.

In theory, a set such as shown by Parker, biased as described, would show some evidence of amplification decrease upon tuning from one station to another having a carrier strength varying from that either upwardly or downwardly from the station used in making the initial adjustment but it seems to us that this change would be wholly incidental or accidental, and not of such substantial character as to warrant a holding that the Parker application as originally filed affords a proper basis for the count. It is our view, therefore, that priority should have been awarded to the party Ballantine on the ground that the party Parker has no right to make the count.

We are in agreement with the decision of the Board that the Parker application as originally filed affords no proper basis for the count of this interference. We think that to obtain the most efficient amplification, the bias would be maintained at all times on the more nearly linear portion of the characteristic curve of the tube, which would, of course, not result in a reduction of the amplification when the carrier wave or signal came in strongly.

As to the holding of the Examiner of Interferences that it was possible that Parker's system would operate in the manner of the count and that the subject matter of count 1 was therefore inherent in his system, we think that the principle declared in the following cases is decisive to the contrary: *In re Ball*, 23 C. C. P. A. (Patents) 830, 81 F.(2d) 242, 466 O. G. 244; *Stafford Co.* v. *Coldwell-Gildard Co. et al.*, 202 Fed. 744, 194 O. G. 746. See also *In re Williams*, 22 C. C. P. A. (Patents) 1019, 75 F.(2d) 520, 456 O. G. 6.

The case of *In re Ball*, supra, involved the question of the function of a claim being inherent in an electric switch to which was attached a protective hood for the prevention of arcing. The question there was whether or not the structure would inherently suppress arcing. It was obvious that a structure might be built in accordance with the disclosure which would in some instances suppress arcing and in other instances would not do so. It was our view there that under such circumstances it could not be said that the structure inherently suppressed arcing. We said:

While appellant's counsel concedes that appellent's specification does not mention the function of arc suppression in the device disclosed by him, he contends that such function is inherent in the device, and he introduced into the record several affidavits stating that devices constructed in accordance with his disclosure do in fact have the function of arc suppression. Upon this point we agree with the board that while such structures may suppress arcing, structures may be produced strictly in accordance with appellant's disclosure which would not possess such function, inasmuch as no dimensions of the openings in the hood are disclosed, and it is clear to us that they may be of sufficient size as to be ineffective to suppress arcing. It therefore cannot be said that the function of suppression of destructive arcing is inherent in the device disclosed by appellant.

Much the same situation prevails here. Possibly in the operation of the Parker device, at some point on the more nearly linear portion of the characteristic curve of the tube, it might actually happen that there would be slight reduction of amplification, but it is apparent that this would not necessarily be the result.

In *Stafford Co.* v. *Coldwell-Gildard Co. et al.*, supra, involving the question of the validity of a reissued patent, the court considered whether or not "inadvertence, accident or mistake" resulted from the failure to claim something which had to be inferred from the original disclosure. In holding invalid a claim in a reissued patent because of lack of original disclosure, the court said:

Starting with these propositions, the rules which govern the Commissioner and the courts are those applied by the fundamental principles of equity, that in order to relieve against "inadvertence, accident or mistake" there must be clear and positive proof that there was such "inadvertence, accident or mistake", and that the party asking for relief acquires no more than he was originally entitled to. The burden of maintaining the facts to which these requirements relate is of a character that requires clear and positive proof, in harmony with the universal rules of equity not to disturb the existing status except by proof of that character. *No more inferences can take the place of such proof. Ordinarily, what is called for by the words "some invention" should appear in some way on the face of the original patent, and it cannot be gathered from mere inferences* or suggestions with reference to what the patentee might or might not have conceived. [Italics ours.]

We have carefully read and studied the Parker record, but a consideration of the language of the count alone is sufficient to illustrate the highly technical subject matter involved in this interference, and while the rule as to concurring decisions of the Patent Office tribunals, which is so familiar as to require no restatement here, is not applicable, it is proper to say, as we said in *Daley* v. *Trube*, 24 C. C. P. A. (Patents) 964, 88 F.(2d) 308, 483 O. G. 230, that upon such a highly technical question as is here involved, and as was there involved, it should be made clear to the court that the decision appealed from is erroneous.

From our understanding of the Parker disclosure it is our view that the invention of the count was not disclosed either inherently or otherwise in the original Parker application. Certainly it has not been made clear to us that the Board was in error in its conclusion relating to the highly technical matter involved.

We are, to some extent, confirmed in our view that the Board's conclusion was without error by a consideration of the fact that at no place in Parker's original application or in his application for reissue was this invention ever referred to or claimed, and that it was not until after the Ballantine patent reissued that Parker made any contention that he was ever the inventor of the particular invention here under consideration.

Finding no error in the decision of the Board of Appeals, awarding priority of invention to the senior party Ballantine, its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE KIRBY AND FREY

No. 4,042. Decided January 23, 1939

[100 F.(2d) 231]

PATENTABILITY—METHOD FOR THE PRESERVATION OF SUBSTANCES.

Claims for a method relating to the preservation of substances *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Messrs. Watson, Bristol, Johnson and *Leavenworth* (*Mr. Clair V. Johnson* of counsel) for Kirby and Frey.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

By appeal there is here brought before us for review the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting sixteen claims (being all the claims) of appellants' joint application for patent entitled "Method for the preservation of substances". The claims are numbered 2 to 6, inclusive; 8 to 15, inclusive; and 17 to 19 inclusive.

The claimed invention, as set forth in the specification, is directed to the prevention of the growth of molds, bacteria, yeasts, and the like in or on substances by applying ethylene oxide and the like to such substances. We quote claims 2, 5, and 8 as representative:

2. A method for the treatment of substances, which comprises inhibiting the growth of molds, bacteria, yeasts and the like by subjecting the substance to the action of ethylene oxide.

5. A method for the treatment of foodstuffs, which comprises inhibiting the growth of molds, bacteria, yeasts and the like by subjecting a foodstuff to the action of ethylene oxide.

8. A method for the treatment of bread, which comprises inhibiting the growth of molds by subjecting bread to the action of ethylene oxide.

It will be observed that claim 2 uses the broad term "substances"; that claim 5 uses the more restricted term "foodstuffs", and that claim 8 names only "bread".

Other of the claims contain limitations which differentiate them in language from each other, but there are no assignments of error, nor any argument on behalf of appellants, which require a specific analysis of each claim. The limitations in the main are indicated in the description of the alleged invention set forth in the brief on behalf of appellants as follows:

The invention • • • is directed to a procedure whereby substances are preserved through the prevention or inhibition of mold, bacteria, yeast, and the like growths therein and thereon. More particularly, the substance treated is a baked product, specifically bread, and thereby the growth of mold is prevented or inhibited. This treatment may be effected with the bread in wrapped or unwrapped condition by subjection to the influence of ethylene oxide, either per se or in gaseous admixture. The contact of ethylene oxide with the bread will depend upon the temperature, the pressure and the concentration thereof, and satisfactory results are attained when bread is contacted with ethylene oxide in a concentration of about 1.2 lbs. per hundred cubic feet, at a pressure of about 0.1 atmosphere, for a period of from five to ten minutes. There results a product upon which the development of molds is controlled, and which is without noticeable change in odor or flavor.

Claims 17, 18, and 19 designate—

"a compound belonging to the group consisting of ethylene oxide, propylene oxide, ethylene chlorhydrin, epichlorhydrin, mesityl oxide, propylene chlorhydrin and propylene dichloride."

but it is not understood that any claim of invention is based upon the inclusion of the several chemicals other than ethylene oxide.

In the brief on behalf of appellants and in the oral argument before us the greatest emphasis was placed upon the claims which are limited to bread. These being claims 8 to 15, inclusive, and claim 17.

The references cited are British Patent, 318,898, December 11, 1930; Roark et al., 1,791,429, February 3, 1931; Hamersley, 1,914,121, June 13, 1933; Gross et al., 1,962,145, June 12, 1934; Chemiker-Zeitung, vol. 55 (1931), pp. 549, 550, and 570–2; Journal of Economic Entomology, vol. 23 (1930), pp. 226–231.

It may be said that in addition to the foregoing references, another patent to Gross et al. was cited at one time, but this was finally withdrawn by the Board because of an affidavit of appellants made under rule 75 of the Patent Office.

The Board refers to the patent to Roark et al. as being the principal reference. From this, quotation will be made later.

The Hamersley patent is directed to the prevention of mold on food products, more particularly bakery products, such as breads, cakes, etc., by the use of hydrogen peroxide, or ozone.

The Examiner, in his statement following the appeal to the Board, said, interalia:

All of the claims were rejected as lacking invention over the patent to Hamersley in view of the patent to Roark et al. and the British patent. Hamersley teaches a method for the treatment of "food products, more particularly bakery products such as breads, cakes, etc. * * *..whereby the growth of mould on such products is retarded and to a large extent prevented * * * comprising bringing into contact with the bakery product to be wrapped, *material which inhibits the growth of bacteria and mould.*" [Italics, the Examiner's.] The material is surrounded with the mould inhibiting gas "* * * either just prior to or during the wrapping operation". Invention is not involved in selecting as a substitute for the ozone a gas known as having the desired property. British Patent 318,898 and the patent to Roark are deemed to teach with sufficient definiteness that ethylene oxide or mixtures of ethylene oxide with carbon dioxide would have the desired mould-growth-inhibiting property, an invention would not accordingly be involved in substituting such agents for the ozone shown by Hamersley. Note in page 1, lines 10 to 12 of the British Patent, 318,898, that the ethylene oxide mixture is described as a "fumigant for use in destroying pests and *germs* of all kinds". [Italics, the Examiner's] and note also (page 1, lines 7 to 11 of the patent to Roark) that the ethylene oxide mixture is described as a material "for destroying or checking the growth or multiplication of living organisms whether *plant* or animal which are economically injurious to man" [Italics, the Examiner's]. Moulds, fungus, and bacteria would fall clearly within the class of living plant organisms which are injurious to man, whose growth would be inhibited by the ethylene oxide. The obviousness of the application of such material to the control of such plant organisms is also apparent from the statement in the last sentence of the first paragraph on page 550 of the Chemiker-Zeitung that the bactericidal effect of the T-gas (mixture of ethylene oxide and carbon dioxide) had not been ascertained to the author's knowledge. It is submitted that the British Patent 318,898 and the patent to Roark teach with sufficient clearness that ethylene oxide possesses bactericidal and fungicidal properties; and further that, without regard to such teaching, invention would not be involved in determining the bactericidal properties of the compound in view of its recognized properties, particularly in view of the Zeitung statement.

The Examiner rejected claims 2 to 6, inclusive, 17 and 19 (which are not limited to bread) upon the additional ground that they are "directly anticipated by each of the excerpts from Chemiker-Zeitung and the Journal", saying—

Each of these references shows the treatment of food substances, wrapped and unwrapped, with ethylene oxide, and these claims recite a process consisting of no more than this. It is clear that if applicant's process inhibits mould growth, the processes of the references will likewise inhibit mould growth, since the same acts in the same relationship must necessarily produce the same results.

While not referring specifically to the last ground of rejection, the Board by general affirmance obviously approved it. It may be said further that in its decision the Board directed attention to the fact that the article cited from Chemiker-Zeitung also shows "the treatment of bread with ethylene oxide".

The patent to Roark et al., who appear to have been chemists in the United States Department of Agriculture, bears the broad title of "Insecticide and fumigant". In the specification it is recited inter alia:

This invention relates to improvements in materials for destroying or checking the growth or multiplication of living organisms, whether plant or animal, which are economically injurious to man.

* * * * * * *

We have found that ethylene oxide is an effective insecticide; that it does not injure the milling and baking qualities of wheat; that it does not bleach or otherwise injure clothing and fabrics; that it does not corrode metals; and that it is relatively non-toxic to man. Ethylene oxide is thus suitable for fumigating insects in grain, clothing, carpets, upholstered furniture, raisins and other foodstuffs in buildings where it is undesirable to use a fumigant highly poisonous to man.

A number of different insects are named for the extermination of which ethylene oxide is stated to have been successfully used, and the specification continues:

While we have described the use of ethylene oxide against certain specific pests, its application as an insecticide is not restricted to these species. Ethylene oxide may be used to kill flies, mosquitoes, and other household insects; or as a fumigant to kill any insect in an enclosed space, such as insects on trees or other vegetation temporarily confined under a fumigating test; insects in clothing, carpets, furs, upholstered furniture, etc., in a fumigating vault; insects in drawers, closets, trunks, boxes, or rooms that can be tightly closed; insects in mills, warehouses, ships, etc., and other places where the vapors of the fumigant can be confined for a definite period of time.

Claim 5 of the Roark et al. patent reads:

A material for use in combating economically harmful plant and animal organisms containing as its essential active ingredient ethylene oxide.

The disclosures of the other references are believed to be sufficiently set forth in the quotations above made from the decisions of the tribunals of the Patent Office, except that it may be said that the patent to Gross et al., 1,962,145, is concerned with a procedure whereby the nicotine content of tobacco may be reduced. It is not observable that any great importance was attached to this patent by the tribunals of the Patent Office, and we question its relevancy here, although it discusses the effect of the amount of ethylene oxide used, and the effect of the time of the exposure to the chemical of the article being treated.

It is contended on behalf of appellants, in substance, that the patent to Roark et al. discloses only the killing of insects by means of ethylene oxide; that the Journal article (of which Dr. Cotton, joint inventor with Roark, was one of the authors) adds nothing which is here relevant to the patent teaching; that the British patent discloses the use of ethylene oxide in conjunction with carbon dioxide only as an insecticide for the destruction of pests and germs, such germs being the life germs of fruits and grain and not micro-organisms growing on the fruits and grain; that the Chemiker-Zeitung article presents only results obtained through the use of ethylene oxide to remove noxious organisms (insects) from food materials, being principally concerned with alteration in the odor and taste of the foodstuffs treated, and that the Hamersley patent relates merely to the prevention of molds upon bread through the medium of hydrogen peroxide or ozone, it being insisted that because the prior art does not show the use of ethylene oxide specifically for preventing molds, bacteria, and yeast, it involved invention to substitute it for hydrogen peroxide or ozone, particularly on bread.

As for the broadest claims of the application—those using the term "substances"—we experience no difficulty in agreeing with the conclusion of the tribunals of the Patent Office that they are not patentable over the disclosures of the prior art, and the same is true as to the narrower, but still quite comprehensive, claims which use the term "foodstuffs". Certainly the prior art teaches the application of ethylene oxide to "substances" and also to articles comprehended within the narrower term "foodstuffs". It may be conceded that such prior art does not state that such application results in, or is for the purpose of, preventing mold, but, as is said in the brief of the Solicitor for the Patent Office,

"The inhibiting of the growth of molds is not the process but a statement of the result of the process."

When applied according to the process, the result would seem naturally to follow.

This reasoning logically applies also to the claims which are limited to bread, a foodstuff in a prepared state. As has been indicated, the excerpt from the Chemiker-Zeitung article definitely shows the application of ethylene oxide to different kinds of bread, such as "Gray bread", "Perfectly fresh", and "1 slice with crust, not packed". Here again it may be conceded that it is not stated that the application of the chemical by the authors of the article was for the purpose of preventing mold, and that the purpose of its application may have been different from the purpose in the minds of appellants; but the application of the compound—the process—is shown. Whether the bread treated was wrapped or unwrapped does not clearly appear, except that as to the crust it is stated "not packed", but, in view of the teaching of Hamersley, this is not regarded as important.

During the oral argument and in a memorandum subsequently filed by leave of the court, appellants directed our attention to certain statutory definitions of "fungicides" and "insecticides" in the Insecticide Act of 1910, 36 Stat. 335, 7 U. S. C. A. § 121, and regulations promulgated thereunder, the argument being that these support appellants' contention with respect to the prior art teachings being limited to the use of ethylene oxide for extermination of insects only, and not for the prevention of mold and the like. These we have examined and considered, but under the principle of law which we regard as controlling of the issue they do not seem to have any particular pertinency.

In view of the teachings of the prior art as to the application of ethylene oxide to substances, such as foodstuffs, including specifically bread, we conclude that it did not involve invention to substitute that compound for the hydrogen peroxide or ozone used by Hamersley.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MACALLUM AND LAUGHTON

No. 4,048. Decided March 6, 1939

[— F.(2d) —]

PATENTABILITY—THERAPEUTIC AGENT AND METHOD OF PREPARING SAME.

Claims for a therapeutic agent *Held* unpatentable over the prior art, and certain claims for a method of preparing same *Held* unpatentable in view of the prior art and for the further reason that they are broader than the invention.

APPEAL from Patent Office. Affirmed.

Messrs. Whittemore, Hulbert and Belknap (*Mr. Clarence B. Zewadski* and *Mr. George A. Degnan* of counsel) for Macallum and Laughton.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner rejecting claims 2, 8, 9, 11, 12, 13, 14, 15, and 16 of appellant's application for a patent. Claims 8, 9, 13, 14, 15, and 16 are process claims. Claims 2, 11, and 12 are product claims. Process claims 6 and 7 were rejected by the Examiner but allowed by the Board.

Claims 2, 8, and 11 are illustrative of the claims on appeal and read as follows:

2. A therapeutic agent comprising an extract of duodenal mucosa which when administered to mammals has the physiological property of stimulating the internal secretion of insulin from the pancreas gland said product being substantially free from proteins, peptones, choline and histamine having no effect on the blood sugar content of totally depancreatized animals and having little effect on the liberation of the external secretion of the pancreas.

8. In the method of obtaining a therapeutic agent containing a hormone of the duodenal mucosa the step comprising the precipitation of a phosphate of calcium from a solution containing said hormone thereby obtaining said hormone adsorbed by the precipitate.

11. A therapeutic agent comprising solid phosphate of calcium having adsorbed therein a hormone of the duodenal mucosa, said therapeutic agent being adapted for oral administration and having the physiological property of decreasing the blood sugar content in partially depancreatized animals while having no effect on totally depancreatized animals, said agent being substantially free from proteins and peptones having a negative Millon color test and having a negative effect on blood pressure and respiratory rate.

The references relied upon are: Moloney et al., 1,470,024, October 9, 1923; Berman, 1,854,502, April 19, 1932; Chemical Abstracts, volume 19, 1925, page 1883, Duodenal secretin and insulin, by Penan and Simonnet; reprint of applicants' article from the proceedings of the Royal Society, 1932, entitled "The relation of the duodenal mucosa to the internal secretion of the pancreas, pages 37 to 46; New and Nonofficial Remedies, 1931, published by A. M. A., page 303; Treatment of diabetes with secretin, by Bainbridge and Beddard, Biochem. J., volume 1, pages 429 to 436, 1906; Presence of insulin-like substance in gastric and duodenal mucosa, by Ivy and Fisher, Amer. J. Physiol., volume 67, pages 445 to 453; The action of intestinal extracts, by Dixon and Wadia, Brit. Med. Journal, volume 1, 1926, page 820; article by Heller in Arch. exp. Path. Pharmak, volume 145, 1929, pages 343 to 358; article by Heller in Wiener Klin. Wochenschrift, volume 44, page 476, April 10, 1931; On the treatment of diabetes mellitus by acid extract of duodenal mucous membrane, by Moore, Eadie, and Abram, Biochem. Journal, volume 1, 1906, pages 28 to 38.

Appellants' disclosure relates to a therapeutic agent alleged to be useful in the treatment of diabetes mellitus and a method of preparing the same. The product comprises an extract of duodenal mucosa which is adsorbed by solid phosphate of calcium and is alleged to have the characteristics, effects, functions, or results which are observable in the claims. The process of making the product seems to be obvious from a reading of the method

claims. Appellants' preparation is alleged to be "entirely suitable for oral administration".

In view of our conclusion it is not necessary to analyze all of the references cited.

The Examiner rejected all of the product claims on the ground that the utility alleged for the product had not been convincingly established. The Examiner also rejected the product claims, on appeal, for want of invention over the Heller reference of 1929.

In addition, the Examiner rejected all of the process claims for lack of invention over the Ivy and Fisher reference in view of the patent to Moloney et al.

Further reasons assigned by the Examiner in rejecting the process claims were that they were functional and did not properly point out the invention because there was no statement as to how the precipitation was accomplished.

The Board of Appeals did not agree with the Examiner's ground of rejection that the product lacked utility but held the process patentable over any prior art before it when the process is specifically stated. The Board affirmed the Examiner in all other respects.

The Board added further grounds for rejection of the process claims as follows:

> Claims 8 and 9 are broader than any invention described and tested since there is no evidence that calcium phosphate precipitated from any solution whatever would give a useful product even though the solution contained the desired hormone. The same is true of claims 15 and 16.
>
> Claims 13 and 14 are too broad because applicants describe only one precipitate and describe this precipitate as critically related to their invention. Furthermore, there is no evidence of test for several precipitates containing the hormone nor does it appear that all such precipitates are useful.

It is quite true that appellants' specification calls for the extraction of duodenal mucosa with a "suitable solvent", but it is likewise true that the only solvent disclosed by the application to be suitable is calcium acid phosphate. There is no evidence in the record, as stated by the Board, that a useful product would result from the precipitation of calcium phosphate from any solution which contained the desired hormone. On this phase of the appeal we are of opinion that the case of *In re Ferris*, 24 C. C. P. A. (Patents) 1303, 1305, 90 F.(2d) 363, 485 O. G. 522, is squarely in point. In that case we said:

> It will be noticed that the claims call broadly for the step of bringing a solvent into intimate contact with the oil without mentioning the particular solvent employed. It seems to us that appellant's invention as taught in the patent was the use of nitro-benzene or its equivalent belonging to the group of nitro compounds or mixtures, and that appellant now seeks to acquire a patent with claims which involve the use of any kind of solvent which would do the work regardless of whether or not it is of the type disclosed. The appealed claims themselves are so broad in calling for a solvent as to amount to asking a monopoly on treating oils for the purposes stated with any material which has a solvent characteristic. The claims are really so broad that they state only the desired result and say that it can be done with a solvent.

We are, therefore, of opinion that the aforesaid added reason for rejection by the Board of process claims 8, 9, 15, and 16, on the grounds that the said claims are broader than any invention described in the application, was proper and we so hold.

As to appealed process claims 13 and 14 the reason for rejection added by the Board was that the precipitate is too broadly stated in these claims. In both of these claims the following appears:

> * * *, the steps of precipitating in a solution containing the insular hormone of the duodenal mucosa a precipitate which adsorbs said hormone and separating said precipitate and adsorbed hormone from the solution.

It is clear that the term "a precipitate" is broad enough to include any or all precipitates which can produce the result desired. The sole example of a precipitate disclosed in the specification of appellants is phosphate of calcium. Since claims 13 and 14 do not state that the precipitate is phosphate of calcium they are certainly broader than the alleged invention and were properly rejected by the Board for that reason.

With respect to claims 2 and 12 the Board said:

> Claims 2 and 12 describe the extract by its effects only. We do not believe these claims point out the invention as required by law and, as indicated above, extracts of this character have been known for years, although the prior art does not point out that they are free from all the substances mentioned in claim 2 and Heller clearly indicates the presence of histamine in his extract and the absence of proteins. The mere absence of certain impurities does not render an old extract patentable unless possibly the absence of these impurities is a critical feature of the invention, which does not appear to be the case here.

Extracts of duodenal mucosa containing its hormone are shown to be old in the art of pharmacology. A careful examination of the Heller reference of 1929 shows that Heller prepared an extract of duodenal mucosa having substantially the same properties as the product shown by claims 2 and 12 herein. The preparation of Heller had the property of reducing the blood sugar level and even when orally administered to dogs which had not been depancreatized, it had this effect.

We are of opinion that the extract of Heller was not of the nature of insulin as contended by appellants since Heller shows that insulin orally administered is destroyed by the ferments in the intestines and has no effect on the blood sugar level when so administered. Neither can we agree with the contention of appelants that the product of Heller is of the nature of secretin, as Heller evidently distinguished secretin from his extract, saying—

> "The active principle is therefore found, *just the same as for secretin*, in the duodenum and the proximal jejunum." [Italics supplied.]

The properties and tests of Heller indicate that his product is substantially protein free, although some histamine is present. In view of Heller it appears to us that if there is any difference between that product and the extract of appellants it is merely one of slight degree of purity. We do not believe this difference of degree in purity renders the product of appellants patentable, for the reason that the products of appellants and Heller do not differ in kind nor does appellants' product have a new utility not possessed by Heller. *In re Merz*, 25 C. C. P. A. (Patents) 1314, 97 F.(2d) 599, 497 O. G. 547.

Claim 11 discloses a composition of matter comprising solid phosphate of calcium and a hormone of duodenal mucosa. If this combination were new the claim might be allowable. But the application discloses that this combination exists naturally in the duodenum and it is therefore old. It will be observed that the quantity of phosphate of calcium defined by the claim cannot be said to be different from the quantity found in nature. Therefore, as a composition of matter claim it is not allowable, as was properly held by the Board.

For the foregoing reasons the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,297,129, V. L. Emerson, Method of producing a machine element, D. C. Del., Doc. E 1091, *Emerson Engineering Co.* v. *New England Auto Parts Corp.* Dismissed Feb. 28, 1939.

1,401,156, C. F. Jenkins, Lawn mower, filed Dec. 23, 1937, D. C., S. D. Iowa, C. Div., Doc. 9, *Moto-Mower Co.* v. *Cooper Mfg. Co.*

1,455,887, O. B. Salisbury, Shoe, D. C. N. J., Doc. E 5919, *O. B. Salisbury* v. *L. Bamberger & Co.* Discontinued Jan. 26, 1939.

1,537,325, Smith & Smith, Meter box, D. C., W. D. Wash., N. Div., Doc. 1227, *H. E. Gere* v. *Puget Sound Sheet Metal Works et al.* Dismissed Mar. 16, 1939.

1,545,571, W. M. Powers, Sweeping compound, filed Dec. 30, 1938, D. C. N. J., Doc. 132, *E. T. Rollins et al.* v. *J. Jankner et al.*

1,580,814, J. A. De Cew, Method of hydrating cellulose fiber, filed Dec. 7, 1938, D. C. N. J., Doc. 106, *J. A. De Cew (Process Engineers)* v. *Union Bag & Paper Corp.*

1,588,956, W. Feldenheimer, Treatment of clay, filed Feb. 11, 1939, D. C. N. J., Doc. 180, *W. Feldenheimer et al.* v. *G. T. Keating et al.*

1,589,947, J. A. De Cew, Method of sizing cellulose fibres, filed Dec. 7, 1938, D. C. N. J., Doc. 108, *J. A. De Cew (Process Engineers)* v. *Union Bag & Paper Corp.*

1,605,445, F. L. Killian, Machine for manufacturing thin rubber articles, filed Jan. 11, 1939, D. C. N. J., Doc. 144, *F. B. Killian et al* v. *Standard Latex Products Corp.*

1,642,675, B. Goldman, Skylight, D. C., S. D. N. Y., Doc. E 84/404, *B. Goldman et al* v. *The Board of Education of City of Mt. Vernon, N. Y. et al.* Patent held valid and infringed; injunction as to all defendants except The Board of Education (notice Mar. 15, 1939).

1,660,536, R. E. Walliser, Machine for making and applying tufts, filed Mar. 14, 1939, D. C., E. D. N. Y., Doc. 255, *L. G. Blessing* v. *S. Michlin et al.* Same, filed Mar. 13, 1939, D. C., S. D. N. Y., Doc. 3/34, *L. G. Blessing* v. *Gordon Textile Co., Inc., et al.*

1,709,477, W. D. Kyle, Insulator, D. C., S. D. N. Y., Doc. 2/77, *Line Material Co.* v. *L. R. Zimmerman et al.* Consent decree for plaintiff (notice Mar. 13, 1939).

1,726,500, R. F. Norris, Sound deadening construction, filed June 24, 1938, D. C., S. D. N. Y., Doc. E 87/186, *C. F. Burgess Laboratories, Inc., et al.* v. *Jacobson & Co., Inc., et al.* Dismissed without prejudice (notice Mar. 16, 1939).

1,730,873, L. Barnett, Electric attachment fitting, D. C., S. D. N. Y., Doc. E 87/164, *L. Barnett* v. *Electro-Motive Mfg. Co., Inc., et al.* Consent order of discontinuance (notice Mar. 11, 1939).

1,781,296, A. Milhomme, Method of treating textile fabrics, D. C. N. J., Doc. E 5584, *Progressive Silk Finishing Co.* v. *Atlas Moire Co., Inc., et al.* Dismissed Nov. 21, 1938.

1,802,700, V. A. Boker, Nozzle for lubricating systems, C. C. A., 8th Cir., Doc. 11296, *Min-A-Max Co., Inc.*, v. *E. Sundholm.* Decree of lower court affirmed Feb. 7, 1939.

1,821,902, W. A. Baum, Manometer, D. C., E. D. Pa., Doc. 7979, *W. A. Baum & Co.* v. *Taylor Instrument Co.* Stipulation of counsel that suit be discontinued Mar. 8, 1939.

1,832,143, E. R. Sitton, Heat insulation, filed Mar. 15, 1939, D. C., S. D. Tex. (Houston), Doc. 93, *E. R. Sitton et al.* v. *Oil Field Insulation Service, Inc.*

1,848,398, C. W. Towt, Apparatus for preventing frost damage to vegetation, D. C., S. D. Calif., C. Div., Doc. E 724 C, *Towt Automatic Frost Protector Co., Ltd., et al.* v. *S. V. Wight et al.* Patent held valid but not infringed Mar. 15, 1939.

1,855,916, C. H. Keeney, Tufting attachment for sewing machines, D. C., N. D. Ga. (Rome), Doc. E 134, *Deltox Rug Co., Inc.*, v. *Gordo Bedspreads, Inc.* Dismissed without prejudice on consent Mar. 8, 1939. Doc. E 137, *Deltox Rug Co.* v. *Empire Tufting Co.* Injunction granted against defendant Dec. 17, 1938. Doc. E 139, *Deltox Rug Co.* v. *Georgia Chenille, Inc.* Injunction granted against defendant Feb. 11, 1939.

1,867,330, H. Schwartzman, Attaching device (declaratory judgment), D. C. N. J., Doc. E 5713, *S. & E. Novelty Co., Inc., et al.* v. *H. Schwartzman.* Dismissed June 1, 1938.

1,893,139, H. C. Gessler, Sugar dispenser, D. C., S. D. N. Y., Doc. E 86/67, *Measuring Device Corp. et al.* v. *Krell Restaurant Supply Co., Inc.* Consent order of dismissal (notice Mar. 8, 1939).

1,902,635, F. C. Gebhardt, Grease and method of making same, filed Nov. 21, 1938, D. C. N. J., Doc. 91, *United Oil Mfg. Co.* v. *Metasap Chemical Co.*

1,915,041, A. L. Wallace, Hose coupling, D. C. N. J., Doc. E 5732, *Metal Hose & Tubing Co., Inc.* v. *Baxter Rubber Co.* Dismissed Jan. 20, 1929.

1,924,082, E. L. Barrett, Motor actuated circuit controlling means, appeal filed Mar. 10, 1939, C. C. A., 2d Cir., Doc. —, *Utah Radio Products Co.* v. *General Motors Corp.*

1,924,315, Hemphill & Hemphill, Sleep eye shade, filed Dec. 12, 1938, D. C. N. J., Doc. 113, *E. C. Hemphill et al.* v. *J. Haniman et al.*

1,931,297, F. Reiser, Embroidery frame, filed Jan. 10, 1939, D. C. N. J., Doc. 142, *F. Reiser et al.* v. *F. Mueller, Inc., et al.*

1,963,349, E. E. Boyce, Sewing machine, D. C., N. D. Ga. (Rome), Doc. 131, *The Boysell Co.* v. *J. F. Brown et al (Dalton Sewing Machine Co.).* Dismissed without prejudice May 24, 1938.

1,964,688, E. S. Pearce, Journal bearing lubrication, D. C. N. J., Doc. E 5884, *Railway Service & Supply Corp.* v. *National Lead Co.* Consent decree Dec. 20, 1938.

1,991,154, W. E. Irving, Bridge, D. C. N. J., Doc. E 5673, *W. E. Irving et al.* v. *Kerlow Steel Flooring Co.* Dismissed Jan. 6, 1939.

2,005,361, Rollins & Dobbs, Cap, D. C. N. J., Doc. E 5526, *G. D. Rollins et al.* v. *Columbia Protektosite Co., Inc.* Dismissed Oct. 4, 1937.

2,012,846, M. T. Bentzen, Multiple outlet spout, D. C. Minn. (Minneapolis), Doc. E 3007, *General Metalware Co.* v. *W. L. Nelson.* Patent held invalid for want of invention and patentability, bill dismissed Mar. 9, 1939.

2,032,887, C. Pfanstiehl, Method of tipping metallic bases, filed Nov. 21, 1938, D. C. N. J., Doc. 90, *Pfanstiehl Chemical Co.* v. *American Platinum Works.*

2,059,530, H. J. Lay, Broom and method of making same, D. C., W. D. N. Y., Doc. E 2203, *H. J. Lay et al.* v. *Evans-Liddle Co., Inc.* Stipulation and consent decree Mar. 15, 1939.

2,060,796, N. C. Cahoon, Dry cell, filed Nov. 14, 1938, D. C. N. J., Doc. 77, *National Carbon Co., Inc.*, v. *Bright Star Battery Co.*

2,067,826, Bushnell & Faber, Concrete mixer, filed Nov. 23, 1938, D. C. N. J., Doc. 93, *Koehring Co.* v. *Ransome Concrete Machinery Co.*

2,080,999, P. T. Cooney, Conduit, filed Mar. 2, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 263–C, *Inner Liner Concrete Pipe Corp* v. *City of Culver City, Calif. et al.*

2,088,376, L. G. Kaskey, Beverage dispenser, D. C., N. D. Calif. (San Francisco), Doc. E 4204–S, *The Buttermilk Dispensers* v. *National Dispenser Corp.* Dismissed without prejudice for want of prosecution Mar. 6, 1939.

2,089,720, R. A. Ferguson, Extension couch, D. C. N. J., Doc. 49, *Simmons Co.* v. *Sure-Rest Bedding Co., Inc.* Consent decree Nov. 16, 1938.

2,110,385, M. A. White, Tufting machine, D. C., N. D. Ga. (Rome), Doc. E 132, *Polly Prentiss, Inc., et al.* v. *F. E. Evans.* Injunction Mar. 8, 1939.

2,127,622, J. P. Stockton, Bridge playing device, filed Mar. 17, 1939, D. C., E. D. N. Y., Doc. 257, *J. P. Stockton* v. *Abraham & Straus, Inc.*

2,142,904, A. E. Lamarthe, Closing device for receptacles, filed Jan. 21, 1939, D. C. N. J., Doc. 157, *Fa-Cile Fastener Corp.* v. *Simpro Corp.* Same, filed Mar. 13, 1939, D. C., S. D. N. Y., Doc. 3/31, *Fa-Cile Fastener Corp.* v. *Ansonia De Luxe Shops, Inc.*

Re. 19,710, Pollak & Ostersetzer, Condensation product and method of making same, D. C., W. D. N. Y., Doc. 2165, *Catalin Corp. of America* v. *Troloosin Plastics, Inc.* Dismissed for lack of prosecution without prejudice Mar. 14, 1939.

Des. 87,097, J. J. Klecka, Finger ring, D. C., N. D. Calif. (San Francisco), Doc. E 4271–S, *J. R. Wood & Sons, Inc.*, v. *C. M. Sanford et al.* Patent held valid and infringed; injunction (notice Mar. 9, 1939).

Des. 95,359, H. J. Langknecht, Ophthalmic mounting, D. C., W. D. N. Y., Doc. 2107, *Shuron Optical Co., Inc.*, v. *Bausch & Lomb Optical Co.* Dismissed for lack of prosecution without prejudice Mar. 14, 1939.

Des. 107,606, A. Waxberg, Dress, D. C., S. D. N. Y., Doc. E 86/183, *G. W. Cohen Corp.* v. *M. Wiesen & Sons Co., Inc.* Consent decree for plaintiff (notice Mar. 10, 1939).

Des. 107,727, V. Rose, Dress, D. C., S. D. N. Y., Doc. E 86/209, *Zuckerman & Rubin, Inc.*, v. *L. White.* Consent judgment for plaintiff (notice Mar. 10, 1939). Doc. E 86/212, *Zuckerman & Rubin, Inc.*, v. *Admiration Dress, Inc.* Judgment for plaintiff (notice Mar. 10, 1939).

Des. 110,244, L. J. Epstein, Bootee, D. C. N. J., Doc. 78, *Restful Footwear Co.* v. *Jersey Footwear, Inc.* Decree Nov. 21, 1938.

Des. 111,195, A. Armour, Automobile seat wardrobe, D. C., S. D. Calif. (Los Angeles), Doc. 135, *A. Armour* v. *General Motors Corp. et al.* Judgment of dismissal on motion of plaintiff Mar. 9, 1939.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,105,396, H. A. Bakke, Electric meter mounting, decided April 25, 1939, claims 5 and 11.

Pat. 2,122,286, C. A. Hovde, Power operated depth control for disk plows, decided April 20, 1939, claims 1, 10, 12, and 13.

Disclaimers

1,662,035.—*Frank L. Smith, Jacob S. Caufield,* and *Charles J. Peterson,* Sacramento, Calif. RETREAD MOLD FOR TIRES. Patent dated March 6, 1928. Disclaimer filed May 18, 1939, by the assignee, *Super Mold Corporation of California.*

Hereby enters this disclaimer to claim 12 in said specification.

1,784,523.—*Ernest Hopkinson,* New York, N. Y. METHOD OF RUBBERIZING FIBROUS MATERIAL AND ARTICLE PRODUCED THEREBY. Patent dated December 9, 1930. Disclaimer filed May 20, 1939, by the assignee, *United States Rubber Company.*

Hereby enters this disclaimer to each of claims 1, 2, 3, 4, 5, 6, 7, 12, and 13 of said Letters Patent.

1,816,574.—*Boutwell H. Foster,* Maplewood, N. J., and *Kenneth B. Cook,* Winnsboro, S. C. PILE OR TUFTED SHEET FIBROUS MATERIAL. Patent dated July 28, 1931. Disclaimer filed May 20, 1939, by the assignee, *United States Rubber Company.*

Hereby enters this disclaimer to each of claims 1, 2, 3, 5, 6, 7, 8, 10, and 11 of said Letters Patent.

1,939,821.—*Winthrop Stanley Lawrence,* Rego Park, N. Y. TRANSFER AND METHOD OF MAKING THE SAME. Patent dated December 19, 1933. Disclaimer filed May 20, 1939, by the assignee, *Kaumagraph Company.*

Hereby enters this disclaimer to claim 1 in said specification.

1,968,409.—*Benjamin Liebowitz,* New York, N. Y. APPAREL. Patent dated July 31, 1934. Disclaimer filed May 17, 1939, by the assignee, *Celanese Corporation of America.*

Hereby enters this disclaimer to claims 2, 3, 4, 7, 9, 10, and 11 of said specification.

1,968,410.—*Benjamin Liebowitz,* New York, N. Y. APPAREL. Patent dated July 31, 1934. Disclaimer filed May 17, 1939, by the assignee, *Celanese Corporation of America.*

Hereby enters this disclaimer to claims 1, 6, 7, 8, and 10 of said specification.

2,115,979.—*Robert A. Sheets,* Oak Park, and *Stanley E. Noble,* Lake Forest, Ill. RAILWAY SIGNALING SYSTEM. Patent dated May 3, 1938. Disclaimer filed May 17, 1939, by the assignee, *General Railway Signal Company.*

Hereby enters this disclaimer by disclaiming from claims 2 and 3 any system of railway signalling, except wherein the "polarized line circuit" causes a clear signal to be displayed by its "signal" when energized by current of one polarity, causes a caution signal to be displayed by its "signal" when energized by current of reverse polarity and causes its "signal" to display a danger indication each time said "polarized line circuit" is opened.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 13, 1939

[VOL. 503. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 409,549. MALCOMSON COAL COMPANY, Detroit, Mich. Filed Aug. 12, 1938.



No claim is made to the word "Coal" apart from the mark.

For Coal and Coke.

Claims use since Jan. 1, 1898.

Ser. No. 418,010. MAINE POTATO GROWERS, INC., Presque Isle, Maine. Filed Apr. 8, 1939.



The words "Brand", "Grower to Grower", and "The Cooperative Way" are disclaimed apart from their association with the mark.

For Seed Potatoes.

Claims use since Feb. 22, 1939.

Ser. No. 418,625. THE CELOTEX CORPORATION, Chicago, Ill. Filed Apr. 24, 1939.

POTTSCO

For Lightweight Aggregate.

Claims use since Jan. 28, 1939.

CLASS 2

Receptacles

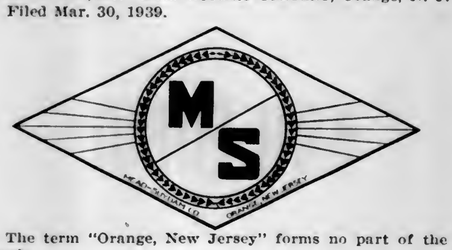
Ser. No. 415,750. WESTERN BAG COMPANY, San Francisco, Calif. Filed Feb. 7, 1939.

WESBAG

For New and Used Burlap Bags.

Claims use since July 30, 1937.

Ser. No. 417,650. MEAD-SUYDAM COMPANY, Orange, N. J. Filed Mar. 30, 1939.



The term "Orange, New Jersey" forms no part of the mark.

For Burial Vaults.

Claims use since Mar. 23, 1939.

Ser. No. 418,038. FIBREBOARD PRODUCTS INC., San Francisco, Calif. Filed Apr. 10, 1939.

Hi-Gear

For Containers and Receptacles and Parts Thereof, Made from Paper, Cardboard, Fiberboard, Tag Board, and Corrugated Board—Namely, Folding Cartons, Clothing Boxes, Millinery Boxes, Cake Boxes, Folding Hat Boxes, Laundry Boxes, Florist Boxes, and Candy Boxes.

Claims use since Mar. 20, 1939.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 416,822. WEINLICH-HATHEWAY, INC., New York, N. Y. Filed Mar. 8, 1939.



For Sample Carriers or Display Books or Folders of Swatches.
Claims use since January, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 417,609. GENERAL MILLS, INC., Minneapolis, Minn. Filed Mar. 29, 1939.

SAV

For Granular Synthetic Detergent To Be Used as a Cleanser for Textiles, Laundry Use, and for General Household Cleaning.
Claims use since Mar. 24, 1939.

Ser. No. 417,649. KARFOAM CORPORATION, Dover, Del., and New York, N. Y. Filed Mar. 30, 1939.

KAR-FOAM

For Automobile Wash.
Claims use since Mar. 23, 1939.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 403,890. RAFFAELE AMENDOLA, doing business as Enterprise Laboratories, New Haven, Conn. Filed Mar. 10, 1938.

AME

For Hair Tonic, Shampoo, Bay Rum, Witch Hazel, After Shaving Lotion, Wave Lotion, Vanishing Cream, Menthol Cream, Cold Cream, Pomade, Coconut Oil Cream, and Massage Cream.
Claims use since Dec. 4, 1937.

Ser. No. 407,047. ANCIENNE MAISON LOUIS SANDERS SOCIÉTÉ ANONYME, St. Gilles, Belgium. Filed June 3, 1938.



For Preparation Used in Digestive Disturbances in Human Beings and Animals.
Claims use since Mar. 1, 1932.

Ser. No. 407,048. ANCIENNE MAISON LOUIS SANDERS SOCIÉTÉ ANONYME, St. Gilles, Belgium. Filed June 3, 1938.

HERSAN

For Preparation Used in Digestive Disturbances in Human Beings and Animals.
Claims use since May 1, 1932.

Ser. No. 413,020. FRANK MARION, doing business as Marion Pharmacal Laboratories, New York, N. Y. Filed Nov. 21, 1938.

POLERGEX

For Medicinal and Pharmaceutical Preparations Indicated for Use as Drops or Spray for the Nose, the Nasal Passages, and the Throat.
Claims use since Oct. 1, 1938.

Ser. No. 413,967. J. B. KNIGHT, SR., doing business as Old 97 Manufacturing Co. and La Charma Company, Tampa, Fla. Filed Dec. 16, 1938.

PRETTY MAMA

For Toilet Creams, Shampoos, Deodorants, Brilliantines, and Perfumes.
Claims use since Sept. 1, 1938.

Ser. No. 415,047. R. H. MACY & CO., INC., New York, N. Y. Filed Jan. 20, 1939.

SCARLET

For Perfumes.
Claims use since Jan. 9, 1939.

Ser. No. 415,295. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 27, 1939.

ALOHA

For Perfumes, Toilet Water, Cologne, Powder, Rouge.
Claims use since Oct. 17, 1938.

Ser. No. 415,951. FRANK MARION, doing business as Marion Pharmacal Laboratories, New York, N. Y. Filed Feb. 11, 1939.

POLLEXIN

For Medicinal and Pharmaceutical Preparations Indicated for Use as Drops or Spray for the Nose, the Nasal Passages, and the Throat.
Claims use since Jan. 1, 1939.

Ser. No. 416,615. JOSEPH M. PERSSE, doing business as Atlantic Laboratories, Savannah, Ga. Filed Mar. 2, 1939.

JUMP-STEDDY
FOR THE MORNING AFTER

No claim is made to the term "For the Morning After" apart from the mark.
For Medicinal Preparation for Use in Relieving the Consequences of Over-Indulgence in Alcoholic and Spirituous Beverages.
Claims use since June, 1936.

Ser. No. 417,400. CLARONEX PRODUCTS, INC., New York, N. Y. Filed Mar. 23, 1939.

RUSTCHROME

For Liquid to Inhibit the Rusting or Corrosion of Metals.
Claims use since Feb. 21, 1939.

Ser. No. 417,457. THE HART PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 24, 1939.

HAR-TU-WET

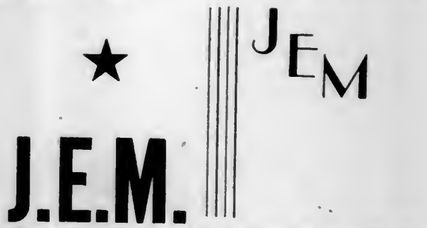
For Waterproofing Compound for Textiles.
Claims use since Jan. 5, 1939.

Ser. No. 417,478. REMAX LABORATORIES, INC., New York, N. Y. Filed Mar. 25, 1939.

EMAXOL

For Medicinal Preparation for Stimulating Fertility in Females.
Claims use since Feb. 21, 1939.

Ser. No. 417,499. J. E. MILLER, SR., Huntington, W. Va. Filed Mar. 25, 1939.



For Preparation in Liquid Form for Use in Treating Diseases of the Mouth and Throat.
Claims use since September, 1937.

Ser. No. 417,515. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Mar. 25, 1939.

AMPHOJEL

For Medicinal Compounds for Treatment of Gastro-Intestinal Tract.
Claims use since Oct. 28, 1936.

Ser.. No. 417,644. DALAR MEDICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 30, 1939.

CRIMIC

For Ointment for Skin Diseases.
Claims use since Dec. 28, 1938.

Ser. No. 417,645. DALAR MEDICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 30, 1939.



For Ear Drops.
Claims use since Dec. 28, 1938.

Ser. No. 417,828. THE ULRICI MEDICINE COMPANY, INC., New York, N. Y. Filed Apr. 3, 1939.

MORVITAL

For Preparation Useful as a Tonic and Reconstituent to Aid in the Development of Children, and in the Care of Mothers During and After Childbearing, and Indicated in and for the Treatment of Chronic Catarrh, Coughs, Diminution, Impairment, or Loss of Appetite, Energy, Resistance, Strength, Vitality, and Weight; Diminution of the Quantity or Impairment of the Quality of the Blood; General Debility; Grippe; Influenza; Lymphatism; Rickets; Scrofula; Weakness of the Lungs;

to Build Blood, Bone, and Tissue; to Enrich and Purify the Blood; to Strengthen the Lungs and as a Preventative Against Anemia, Beri-Beri, and Incipient Tuberculosis.
Claims use since Aug. 1, 1926.

Ser No. 417,882. LYNDON PRODUCTS CORPORATION, Norwalk, Conn. Filed Apr. 5, 1939.

Suav-air

For Perfume.
Claims use since Nov. 15, 1938.

Ser. No. 417,947. WEBB LABORATORIES, INC., Schenectady, N. Y. Filed Apr. 6, 1939.

WEBB

For Vitamin Preparations.
Claims use since Oct. 1, 1935.

Ser. No. 417,963. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Apr. 7, 1939.

PARICAL

For Insecticides.
Claims use since Mar. 8, 1939.

Ser. No. 417,991. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Apr. 7, 1939.

AFAXIN

For Vitamin A Preparation for the Prevention and Treatment of Deficiencies of Growth-Promoting and Antiophthalmic Vitamin A.
Claims use since Mar. 24, 1939.

Ser. No. 418,051. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Apr. 10, 1939.

SANTOMASK

For Aromatic Substances to be Added to Industrial Products to Improve the Odor Thereof.
Claims use since Feb. 4, 1939.

Ser. No. 418,082. MAX WINDSCHAUER, doing business as Kleenco Boiler Products Company, New York, N. Y. Filed Apr. 10, 1939.

KLEENCO

For Chemical in Powder Form Used for Cleaning Steam Boilers, Steam Mains and Returns, Automobile Radiators, Hot Water Heating Systems, Circulation Lines, and Turbines.
Claims use since Mar. 1, 1938.

Ser. No. 418,087. BABS CREATIONS, INC., New York, N. Y. Filed Apr. 11, 1939.

YESTERYEAR

For Perfumes, Face Powder, Lipsticks, Face Creams, Lotions, and Hair Tonics.
Claims use since Mar. 3, 1939.

Ser. No. 418,310. PARSONS CHEMICAL WORKS, Grand Ledge, Mich. Filed Apr. 15, 1939.

WEEVIL DESTROYER · SMUT CONTROL · CROW REPELLENT · SCAB PREVENTION · Parsons SEED SAVER BRANDS SEED TREATMENT

All wording except the name "Parsons" is disclaimed apart from the association shown.
For Seed Treating Compounds, Disinfectants, Repellents, Insecticides, Germicides, Fungicides.
Claims use since 1935.

Ser. No. 418,399. NICOSIA PERMANENT WAVING CO., Houston and Dallas, Tex. Filed Apr. 17, 1939.

VINIC
VEE NEEQUE
KREEM
WAVE

Applicant disclaims the phrase "Kreem Wave".
For Permanent Wave Cream.
Claims use since Feb. 1, 1939.

Ser. No. 418,674. CEDACOTE PRODUCTS INC., New York, N. Y. Filed Apr. 25, 1939.

CEDACOTE

For Preparations Which Repel Moths and Other Insects that Destroy Clothing, Furs, and the Like; and for Preparations Which are Odorous Disinfectants and Insecticides; and for Moth and Insect Repellant Preparation to be Included in Plastic Materials or Coatings Which are Employed to Coat Closets, Chests, Drawers, Storage Rooms in Which Clothes, Blankets, and Furs are Stored; and for Insecticide Preparation To Be Included in Compositions for Coating Pieces of Wood, Fibre, and Glass, or the Like, Which May be Placed in Closets, Chests, Drawers, and Storage Rooms for Repelling Moths and Other Insects.
Claims use since Sept. 15, 1938.

Ser. No. 418,774. FRIEDEN BROS. & CO., INC., doing business as Cavalier Laboratories, Norfolk, Va. Filed Apr. 27, 1939.

CAVALIER

For Homeuse Ammonia, Bluing, Petroleum Jelly, Castor Oil, Spirits of Turpentine for Medicinal Purposes, Camphorated Oil, Tincture of Iodine, Quinine Sulphate, Epsom Salts, Rubbing Alcohol, Witch Hazel, Hair Tonics, and Insecticides.
Claims use since Oct. 1, 1935.

Ser. No. 418,954. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 1, 1939.

AEPLOIDS

For Preparation Used in the Treatment of Dysmenorrhea.
Claims use since Apr. 18, 1939.

Ser. No. 418,980. PARKER RUST PROOF COMPANY, Detroit, Mich. Filed May 2, 1939.

STEELBOND

For Chemicals for Treating Steel Surfaces to Obtain Thereon Corrosion Resistant Paint Holding Coatings.
Claims use since Apr. 20, 1939.

Ser. No. 419,029. BERT J. MAURICE, Washington, D. C. Filed May 3, 1939.

BLEMWAINE

For Ointment for External Use in the Treatment of Acne and Pimples.
Claims use since Feb. 1, 1939.

Ser. No. 419,092. SYLVANIA INDUSTRIAL CORPORATION, New York, N. Y. Filed May 4, 1939.

HYGLIN

For Cellulose Ethers.
Claims use since Jan. 17, 1939.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 416,431. THE MARLIN FIREARMS COMPANY, New Haven, Conn. Filed Feb. 25, 1939.

SKEETKING

For Shotguns.
Claims use since Feb. 18, 1939.

CLASS 10

Fertilizers

Ser. No. 416,586. SCIENTIFIC PLANT FOOD CO., Miami, Fla. Filed Mar. 1, 1939.

100%

For Plant Food and Fertilizer.
Claims use since Nov. 3, 1938.

CLASS 12

Construction Materials

Ser. No. 410,595. I. F. LAUCKS, INC., Seattle, Wash. Filed Sept. 15, 1938.

REZ-BORD

Applicant disclaims "Bord" apart from the mark.
For Plywood.
Claims use since Aug. 29, 1938.

Ser. No. 418,611. THE WAIT ASSOCIATES, INC., New York, N. Y. Filed Apr. 22, 1939.

STEAMIX

For Bituminous Paving Mixture.
Claims use since Feb. 17, 1939.

Ser. No. 418,626. THE CELOTEX CORPORATION, Chicago, Ill. Filed Apr. 24, 1939.

19/UP

For Mineral Surfaced Roll Roofing and Soft Plastic Cement Comprising Asphalt and the Like as a Base and a Thinner for Sealing the Laps of Roofing.
Claims use since Sept. 8, 1938.

Ser. No. 418,627. THE CELOTEX CORPORATION, Chicago, Ill. Filed Apr. 24, 1939.

SERVALL

For Roll Roofing.
Claims use since Sept. 2, 1938.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 405,376. UNIVERSAL BUTTON FASTENING & BUTTON COMPANY, Detroit, Mich. Filed Apr. 16, 1938.

UNITOAST

For Imperforate Plate Type Combination Toasters and Grillers.
Claims use since Mar. 11, 1938.

Ser. No. 413,324. STANDARD SANITARY MFG. CO., Pittsburgh, Pa., San Francisco, Oakland, and Sacramento, Calif. Filed Nov. 30, 1938.

"Standard" PACIFIC

Applicant is owner of T. M. Reg. No. 58,506 (renewed), for the word "Standard" under the ten-year proviso.
For Enameled Iron Plumbing Fixtures—Namely, Bath Tubs, Lavatories, Sinks, Urinals, Laundry Trays, and Drinking Fountains, and Vitreous China Plumbing Fixtures—Namely, Water Closet Tanks, Water Closet Bowls, Urinals, Lavoratories, Drinking Fountains, Sinks, and Laundry Trays.
Claims use since 1925.

Ser. No. 417,104. SNELL-JONES TACK CORP., Brockton, Mass. Filed Mar. 15, 1939.

S. J. T. CORP.

For Tacks, Nails, Glaziers' Points, and Machine and Carpet Staples.
Claims use since January, 1929.

Ser. No. 417,594. SUPERIOR TUBE COMPANY, Philadelphia and Norristown, Pa. Filed Mar. 28, 1939.

BRAWN

For Metal Tubing.
Claims use since May 17, 1938.

Ser. No. 418,016. SERR MANUFACTURING COMPANY, New York, N. Y. Filed Apr. 8, 1939.

POACHMASTER

For Steam Egg Poachers Made of Aluminum Metal or Other Base Metals.
Claims use since June 15, 1938.

Ser. No. 418,315. SIERRA RUBBER COMPANY, Los Angeles, Calif. Filed Apr. 15, 1939.

UNIVERSAL

For Plumbing Rubber Specialties—Namely, Rubber Tank Balls.
Claims use since Jan. 17, 1938.

Ser. No. 418,450. PENNSYLVANIA AIRCRAFT SYNDICATE, LTD., Philadelphia, Pa. Filed Apr. 19, 1939.

RODRIG

For Solid Metal Stays, Bolts, Clevises, Clevis Pins, Cotter Pins, End Fittings for Stays, Stay Spreaders, and Tangs.
Claims use since Dec. 6, 1938.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 415,725. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa. Filed Feb. 7, 1939.

TECHNALLOY

For Unfinished Castings of Ferrous Metal Generally.
Claims use since Nov. 17, 1937.

Ser. No. 415,726. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa. Filed Feb. 7, 1939.

TECHNICHILL

For Unfinished Castings of Ferrous Metal Generally.
Claims use since Sept. 27, 1937.

Ser. No. 415,727. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa. Filed Feb. 7, 1939.

TECHNIGRAIN

For Unfinished Castings of Ferrous Metal Generally.
Claims use since Sept. 28, 1937.

Ser. No. 415,728. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa. Filed Feb. 7, 1939.

TECHNISAND

For Unfinished Castings of Ferrous Metal Generally.
Claims use since Aug. 25, 1937.

CLASS 15

Oils and Greases

Ser. No. 415,386. THE GOLDEN RULE OIL COMPANY, Wichita, Kans. Filed Jan. 30, 1939.

BLUE RIBBON

For Gasoline, Kerosene, Lubricating Oils, and Greases.
Claims use since Feb. 26, 1924.

Ser. No. 418,257. MIDCONTINENT EXPORT CORPORATION, New York, N. Y. Filed Apr. 14, 1939.

MIDEXPORT

For Lubricating Oils and Greases.
Claims use since Apr. 6, 1939.

Ser. No. 418,659. TRIPLEX OIL REFINING COMPANY, INC., Long Island City, N. Y. Filed Apr. 24, 1939.

EVER-BODY'S

For Motor Lubricating Oils.
Claims use since Mar. 25, 1939.

Ser. No. 418,660. TRIPLEX OIL REFINING COMPANY, INC., Long Island City, N. Y. Filed Apr. 24, 1939.

TRI SOL

For Lubricating Oils.
Claims use since Mar. 25, 1939.

CLASS 16

Paints and Painters' Materials

Ser. No. 415,121. S. C. JOHNSON & SON, INC., Racine, Wis. Filed Jan. 23, 1939.

TRAFFIC-COTE

Applicant disclaims the suffix "Cote" apart from the prefix "Traffic".
For Varnish.
Claims use since Apr. 26, 1938.

Ser. No. 417,902. THE BERGONIZE COMPANY, Chicago, Ill. Filed Apr. 6, 1939.

BERGONIZE

For Water Soluble, Transparent, Protective Wall Coating for Application Over Washable Painted Walls and Washable Wall Papers.
Claims use since June 15, 1938.

Ser. No. 418,090. BLUE LABEL MANUFACTURING COMPANY, Great Falls, Mont. Filed Apr. 11, 1939.

BLUE Label

The drawing is lined for blue. The representation of the label, per se, as well as the right to exclusive use of a label of blue color, is disclaimed apart from the mark.
For Furniture Polish.
Claims use since Dec. 7, 1938.

Ser. No. 418,590. O. & R. PRODUCTS, INC., New York, N. Y. Filed Apr. 22, 1939.

O & R

For Paint and Varnish Remover.
Claims use since Apr. 12, 1939.

CLASS 17

Tobacco Products

Ser. No. 417,171. RAYMOND F. GRIFFITH, doing business as Colonial Tobacco Company, St. Louis, Mo. Filed Mar. 17, 1939.

Southern Mansion

For Smoking Tobacco.
Claims use since Mar. 25, 1938.

Serial No. 418,487. P. LORILLARD COMPANY, New York, N. Y. Filed Apr. 20, 1939.

"WHEN A FELLER NEEDS A FRIEND"

For Cigarettes and Smoking Tobacco.
Claims use since September, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 415,623. JAMES A. APFFEL, doing business as Vac-U-Matic Products Co., Los Angeles, Calif. Filed Feb. 6, 1939.

VAC-U-MATIC

For Accelerator Actuated Brake Control Which Automatically Controls the Operation of the Braking System on Automobiles.
Claims use since Nov. 19, 1938.

Ser. No. 418,442. THE HUFFMAN MANUFACTURING COMPANY, Dayton, Ohio. Filed Apr. 19, 1939.

PACE MAKER

For Bicycles and Structural Parts Therefor.
Claims use since Apr. 6, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 411,406. ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio. Filed Oct. 8, 1938.

PREMIER VAC-KIT

No claim is made to the word "Kit" apart from the mark.
For Electric Vacuum Cleaners and Parts Thereof.
Claims use since Aug. 6, 1938.

Ser. No. 411,511. PRECISION ELECTRO-MECANIQUE S. A., Delemont, Switzerland. Filed Oct. 11, 1938.

PEM

For Spark Plugs, Ignition Distributors, Ignition Coils, Magnetos, Batteries, Dynamos, Electrical Starting Devices for Motor Car Engines, Lamps, Headlights, Electrical Alarms, Electrical Carriage Heating Apparatus, Electrical Starting Spark Plugs for Diesel Engines.
Claims use since June 25, 1938.

Ser. No. 416,237. ALLEN-BRADLEY COMPANY, Milwaukee, Wis. Filed Feb. 20, 1939.

A-B PRECISION SWITCH

No claim is made for the words "Precision Switch" apart from the mark.
For Electric Switches.
Claims use since Aug. 17, 1937.

Ser. No. 418,267. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 14, 1939.

Energex

For Electric Vacuum Cleaners.
Claims use since Dec. 20, 1938.

Ser. No. 418,359. OWENS-ILLINOIS GLASS COMPANY, Toledo, Ohio. Filed Apr. 17, 1939.

LOWEX

For Electrical Insulators.
Claims use since Mar. 14, 1939.

Ser. No. 418,489. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Apr. 20, 1939.

FP

For Electric Condensers or Capacitors, Electrolytic Condensers or Capacitors, Dry Electrolytic Condensers.
Claims use since Apr. 8, 1938.

Ser. No. 418,490. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Apr. 20, 1939.

INDUCTUNER

For Variable Inductance Devices, Inductive Tuning Devices, Variable Inductance Tuning Devices, Continuously Variable Slide Wire Inductive Tuning Devices.
Claims use since Apr. 14, 1939.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 411,173. LYON & COULSON, INC., Buffalo, N. Y. Filed Oct. 1, 1938.

Ariflex

For Fishing Leaders Manufactured from Gut Substitute.
Claims use since Aug. 26, 1938.

Ser. No. 413,733. JOHN NELSON, doing business as Louis Johnson Co., Chicago, Ill. Filed Dec. 12, 1938.

JOHNSON'S SPRITE

The term "Johnson's" is disclaimed apart from the mark.
For Artificial Fish Lures.
Claims use since Dec. 2, 1938.

Ser. No. 418,550. MCLOUGHLIN BROS., INC., Springfield, Mass. Filed Apr. 21, 1939.

The JOLLY JUMP-UPS

For Paper Toy.
Claims use since Mar. 29, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 399,902. ARTHUR J. STOCK, doing business as Stock Engineering Company, Cleveland, Ohio. Filed Nov. 18, 1937.

SECO

For Coal Handling Equipment—Namely, Coal Chutes, Non-Segregating Coal Distributors, Coal Valves, and Parts Therefor.
Claims use since June 3, 1936.

Ser. No. 411,532. IMPERIAL KNIFE CO., INC., Providence, R. I. Filed Oct. 12, 1938.

Jack-master

For Pocket Knives.
Claims use since Aug. 30, 1938.

Ser. No. 417,290. MATCH KING, INC., Chicago, Ill. Filed Mar. 20, 1939.

PERFEX

For Electric Hair Clippers and Electric Shaving Devices.
Claims use since Apr. 6, 1937.

Ser. No. 418,312. ADOLF ROSENBERGER, doing business as Miracle Patent Company, New York, N. Y. Filed Apr. 15, 1939.

TACKMASTER

For Implement for Use by Tailors for Inserting Loops of Thread in Fabric.
Claims use since Apr. 3, 1939.

Ser. No. 418,376. U. S. SLICING MACHINE COMPANY, La Porte, Ind. Filed Apr. 17, 1939.

DELICATOR

For Meat Tendering Machines and Slicing Machines and Parts Thereof.
Claims use since Apr. 4, 1939.

Ser. No. 418,502. WRIGHT AERONAUTICAL CORPORATION, Paterson, N. J. Filed Apr. 20, 1939.

TYPHOON

For Internal Combustion Engines.
Claims use since May 1, 1930.

Ser. No. 418,514. ECLIPSE LAWN MOWER COMPANY, Prophetstown, Ill. Filed Apr. 21, 1939.

Rightoway

For Power Lawn Mowers.
Claims use since Mar. 21, 1939.

Ser. No. 418,515. ECLIPSE LAWN MOWER COMPANY, Prophetstown, Ill. Filed Apr. 21, 1939.

Speedway

For Power Lawn Mowers.
Claims use since Mar. 17, 1939.

Ser. No. 418,547. THE WOOD SHOVEL AND TOOL COMPANY, Piqua, Ohio. Filed Apr. 21, 1939.

BEAM

For Shovels, Spades, and Scoops.
Claims use since Apr. 13, 1939.

CLASS 25

Locks and Safes

Ser. No. 412,711. R. W. LAING & SON, Cleveland Heights, Ohio. Filed Nov. 14, 1938.

SILENT WATCHMAN

For Safety Device for Use by Fumigators for Temporarily Enveloping the Latching or Locking Mechanism on a Door to Prevent Any Entry During Fumigation.
Claims use since Nov. 1, 1938.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 389,120. TOBE DEUTSCHMANN CORPORATION, Canton, Mass. Filed Feb. 19, 1937.

Audi-o-Graph

For Electrical Measuring Apparatus for Measuring and Recording Graphically Sound Intensities of Loud Speakers, Telephones, and the Like in Which a Measured Quantity of Energy is Impressed Upon the Loud Speaker by the Electrical Apparatus Itself.
Claims use since Oct. 15, 1936.

CLASS 27

Horological Instruments

Ser. No. 418,278. S. S. KRESGE COMPANY, Detroit, Mich. Filed Apr. 13, 1939.

ESKAY

For Watches and Clocks.
Claims use since May 18, 1938.

Ser. No. 418,288. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Apr. 15, 1939.

BIRTHSTONE

For Watches—Namely, Wrist or Strap Watches.
Claims use since Mar. 8, 1938.

Ser. No. 418,289. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Apr. 15, 1939.

PEG O' MY HEART

For Watches—Namely, Wrist or Strap Watches.
Claims use since Mar. 17, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 398,544. MONOCRAFT PRODUCTS CO. INC., New York, N. Y. Filed Oct. 15, 1937.

Jewels of the Month

The word "Jewels" is disclaimed apart from the mark.
For Pins, Clips, Bracelets, Earrings, Brooches, Hair Ornaments, Necklaces, Fobs, and Rings, All of the Foregoing Being Made of Precious Metal or Plated with the Same.
Claims use since Sept. 1, 1937.

Ser. No. 418,220. THE WATSON COMPANY, Attleboro, Mass. Filed Apr. 13, 1939.

CHILDCRAFT

For Flatware and Hollowware Composed Wholly or in Part of Sterling Silver.
Claims use since Apr. 11, 1939.

Ser. No. 418,443. INTERNATIONAL SILVER COMPANY, Meriden, Conn. Filed Apr. 19, 1939.

ADORATION

For Silver-Plated Flatware for Table Use and the Like.
Claims use since Apr. 7, 1939.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 413,793. MELBERN, INC., Los Angeles, Calif. Filed Dec. 13, 1938.

SABLE-GLO

For Cosmetic Brushes.
Claims use since Oct. 10, 1938.

Ser. No. 418,677. COSBY BRUSH & IMPORT COMPANY, INC., New York, N. Y. Filed Apr. 25, 1939.

"ALLURE"

For Toilet Brushes.
Claims use since Mar. 2, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 414,246. CONSIDER H. WILLETT, INC., Louisville, Ky. Filed Dec. 27, 1938.

GOLDEN-BERYL

For Living Room, Dining Room, and Bedroom Furniture.
Claims use since Dec. 12, 1938.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 405,614. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio. Filed Apr. 22, 1938.

STOPS
QUICK AS
LIGHTNING

LIGHTNING

ROADGRIPPER

"SILENT AS A DARK NIGHT"

No claim is made to the words "Stops Quick As" and "Silent As A" apart from the mark.
For Pneumatic Tires and Tubes for Vehicle Wheels.
Claims use since Dec. 15, 1936.

CLASS 37

Paper and Stationery

Ser. No. 416,497. THE DOBECKMUN COMPANY, Cleveland, Ohio. Filed Feb. 27, 1939.

LITHOPAQUE

For Printed Transparent Sheeting, Printed Coated Paper, Printed Laminated Stock, and Printed Web Material.
Claims use since Feb. 14, 1939.

CLASS 38

Prints and Publications

Ser. No. 406,793. X-RAY SALES METHOD, INC., Chicago, Ill. Filed May 26, 1938.

TEL-A-VISION

For Illustrating Books, Catalogues, and Advertising Displays for Sales and Educational Purposes, Sold as Such in the Trade.
Claims use since Oct. 12, 1937.

Ser. No. 416,504. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Feb. 28, 1939.

STEPMOTHER

For Scripts for a Series of Commercial Radio Broadcasts Sold as a Publication in Trade.
Claims use since Jan. 17, 1938.

Ser. No. 417,472. EDWARD ROBIE, New York, N. Y. Filed Mar. 24, 1939.

BIERO

For Printed Stocks and Bonds Sold as Such to the Trade.
Claims use since Mar. 10, 1939.

Ser. No. 417,858. BARRON'S PUBLISHING CO., Boston, Mass. Filed Apr. 5, 1939.

THE TRADER

For Column in a Weekly Trade Publication.
Claims use since May 14, 1934.

Ser. No. 417,973. NATIONAL BROADCASTING COMPANY, INC., New York, N. Y. Filed Apr. 7, 1939.

NBC

For Maps.
Claims use since July 13, 1938.

CLASS 39

Clothing

Ser. No. 414,086. M. SOLOMON & SONS, Baltimore, Md. Filed Dec. 21, 1938.

THE Brinkly

For Clothing—Namely, Men's Coats, Pants, Vests, and Overcoats.
Claims use since Mar. 1, 1925.

Ser. No. 414,181. ANGULUS SCHUHHAUS EBERHARD MULLER SOHNE, Frankfort-on-the-Main, Germany. Filed Dec. 24, 1938.



Applicant disclaims the pictorial representation of the shoe.
For Men's, Women's, and Children's Shoes and Boots Made from Leather.
Claims use since May 12, 1934.

Ser. No. 414,747. MAY GIRL COAT COMPANY, New York, N. Y. Filed Jan. 12, 1939.



Applicant disclaims the words "Chubbigirl Fashions" apart from the mark. The picture is fanciful.
For Children's Coats, Snow Suits, and Dresses.
Claims use since Oct. 15, 1938.

Ser. No. 415,553. HANES ASSOCIATED MILLS, INC., New York, N. Y. Filed Feb. 3, 1939.

STROLLER

For Women's Hosiery.
Claims use since Dec. 14, 1937.

Ser. No. 415,613. VARSITY UNDERWEAR COMPANY, Baltimore, Md. Filed Feb. 4, 1939.

Skivies

For Men's, Women's, and Children's Knitted, Woven, and Loomed Abbreviated Shorts, Shorts, and Undershirts.
Claims use since April, 1935.

Ser. No. 415,662. R. G. S. MANUFACTURING CORP., New York, N. Y. Filed Feb. 6, 1939.

SKY CHIEF

For Boys' Suits and Hats.
Claims use since August, 1938.

Ser. No. 416,421. HOUSE OF YORK, LTD., New York, N. Y. Filed Feb. 25, 1939.



PEBBLEBROOK

STYLED BY HOUSE OF YORK LTD.

The words "Styled By" and "House of York Ltd." are disclaimed apart from the mark.
For Women's and Misses' Coats and Suits.
Claims use since Sept. 15, 1938.

Ser. No. 416,616. ROSENTHAL ACKERMAN MILLINERY COMPANY, St. Louis, Mo. Filed Mar. 2, 1939.

REPRODUCTION

Lecie DE PARIS

The words "Reproduction" and "de Paris" are disclaimed apart from the mark.
For Hats for Ladies' and Misses'.
Claims use since Jan. 5, 1939.

Ser. No. 416,737. MARJORIE MONTGOMERY, INC., Los Angeles, Calif. Filed Mar. 6, 1939.

Free & Easy

For Women's and Girls' Dresses and Play Suits with Overskirts.
Claims use since Jan. 18, 1939.

Ser. No. 416,749. A. STEIN & COMPANY, Chicago, Ill. Filed Mar. 6, 1939. Sec. 5b, act of 1905, as amended 1920.

PARIS

For Garters, Armbands, Suspenders, Apparel, Belts, and Raincoats.
Claims use since about Jan. 1, 1891 on garters; since about Mar. 2, 1922 on suspenders; since about Oct. 28, 1921 on armbands; since about May 1, 1924 on belts; since about Oct. 15, 1937 on raincoats.

Ser. No. 417,207. L. B. EVANS' SON COMPANY, Wakefield, Mass. Filed Mar. 18, 1939.

Cherokee

For Men's and Boys' Moccasin Slippers.
Claims use since Jan. 15, 1938.

Ser. No. 417,302. ROYAL UNDERGARMENT COMPANY, INC., New York, N. Y. Filed Mar. 20, 1939.



The phrases "Soft as Kittens" and "Warm as Mittens" are disclaimed apart from the mark.
For Ladies' and Children's Slips, Panties, Brassières, Nightgowns, Pajamas, Chemises, Bed Jackets, Vests, Bloomers, Outer Skirts, Sweaters, Suits, Coats, Sport Dresses, Outer Skirts, Blouses, Lounging Robes, and Jackets.
Claims use since Dec. 14, 1939.

Ser. No. 417,376. SEBASTIAN S. KRESGE, doing business as Kresge Department Store, Newark, Newark, N. J. Filed Mar. 22, 1939.

Young Sophisticates

For Women's and Misses' Coats, Suits, Dresses, Underwear, and Hosiery.
Claims use since February, 1937.

Ser. No. 417,507. SCHLANGER & SON, New York, N. Y. Filed Mar. 25, 1939.

Tummy Tuckers by BeauBra

The word "Bra" apart from the mark is disclaimed.
For Women's, Misses', and Girls' Corsets and Brassières.
Claims use since Feb. 21, 1938.

Ser. No. 417,560. THE UTILITOG COMPANY, Warrensburg, Mo. Filed Mar. 27, 1939.

Utilitog

For Women's Uniforms.
Claims use since Oct. 5, 1935.

Ser. No. 417,699. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Filed Mar. 31, 1939.

SATIN SUZI

The word "Satin" is disclaimed except as shown.
For Silk, Satin, Silk Crepe, Satin and/or Silk and Rayon and All Rayon Underwear for Women and Misses.
Claims use since Feb. 28, 1939.

Ser. No. 417,844. WILLIAM MAYER, doing business as H. & M. Neckwear Co., New York, N. Y. Filed Apr. 4, 1939.

JITTER BOW

No claim is made to the word "Bow" apart from the mark.
For Bow Neckties.
Claims use since July, 1938.

Ser. No. 417,872. EAGLE CLOTHES, New York, N. Y. Filed Apr. 5, 1939.

OOMPH IN CLOTHING

The word "Clothing" is disclaimed apart from the mark.
For Overcoats, Topcoats, and Suits for Men and Young Men.
Claims use since Apr. 1, 1939.

Ser. No. 417,877. JANESVILLE CLOTHING COMPANY, Janesville, Wis. Filed Apr. 5, 1939.

RibMountain

For Men's and Boys' Work Clothing—Namely, Overalls, Coats, Pants, and Shirts.
Claims use since Feb. 15, 1939.

Ser. No. 417,909. C. P. FORD & CO., Rochester, N. Y. Filed Apr. 6, 1939.

SHENANIGAN

For Women's Shoes of Leather or of Combinations of Leather and Fabric.
Claims use since Apr. 12, 1938.

Ser. No. 417,984. TODAS COSAS, INC., Santa Fe, N. Mex. Filed Apr. 7, 1939.

TODAS COSAS

For Women's and Girls' Dresses.
Claims use since March, 1935.

Ser. No. 417,986. TOURAINE COMPANY, INC., New York, N. Y. Filed Apr. 7, 1939.

"CALIFORNIA" BARNYARD FASHIONS

The words "California" and "Fashions" are disclaimed apart from the mark.
For Knitted Suits, Sweaters, Jackets, Skirts, Play Suits, Shorts, Slacks, and Sport Shirts for Ladies, Misses, and Children.
Claims use since December, 1938.

Ser. No. 418,101. GIMBEL BROTHERS, INC., New York, N. Y. Filed Apr. 11, 1939.

GIMBELS-FASHONIA

For Women's Apparel—Namely, Coats, Suits, Dresses, Underwear, Hosiery, Outer Skirts, Sweaters, Bathing Suits, Aprons, and Raincoats.
Claims use since Mar. 5, 1929.

Ser. No. 418,117. RUGBY KNITTING MILLS, INC., Buffalo, N. Y. Filed Apr. 11, 1939.

Flintwist

For Sweaters.
Claims use since Apr. 5, 1939.

Ser. No. 418,126. AFFILIATED CLOTHIERS, INC., New York, N. Y. Filed Apr. 12, 1939.

Trophy Craft

For Men's and Boys' Clothing—Namely, Overcoats, Topcoats, and Suits.
Claims use since Jan. 26, 1939.

Ser. No. 418,197. KESSLER, SCHWARTZ & CO., INC., New York, N. Y. Filed Apr. 13, 1939.

"Scramble-Two"

For Ladies' and Misses' Jackets, Suits, Skirts, and Combinations Thereof.
Claims use since Mar. 29, 1938.

Ser. No. 418,252. JULIUS KAYSER & CO., New York, N. Y. Filed Apr. 14, 1939.

BENEETS

For Ladies' Underwear.
Claims use since Aug. 1, 1935.

Ser. No. 418,357. OLD COLONY SHOE COMPANY, Brockton, Mass. Filed Apr. 17, 1939.

SKILD O.C.S.Co. CRAFT

For Boots and Shoes of Leather and Combinations of Leather, Fabric, and Rubber.
Claims use since Feb. 14, 1936.

Ser. No. 418,358. OLD COLONY SHOE COMPANY, doing business as C. H. Alden Shoe Co., Brockton, Mass. Filed Apr. 17, 1939.

Pli-Craft

For Boots and Shoes of Leather and Combinations of Leather, Fabric, and Rubber.
Claims use since Feb. 10, 1939.

Ser. No. 418,364. SAKS & COMPANY, New York, N. Y. Filed Apr. 17, 1939.

Constitution Walk

For Women's and Misses' Shoes Made of Leather and Fabric, and Combinations Thereof.
Claims use since Mar. 31, 1939.

Ser. No. 418,365. SAKS & COMPANY, New York, N. Y. Filed Apr. 17, 1939.

Inca

For Women's and Misses' Shoes Made of Leather, Fabric, and Combinations Thereof.
Claims use since Mar. 31, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 418,259. CHENILLE MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 14, 1939.

GLAMOUR

For Chenilles.
Claims use since Mar. 27, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 415,247. ESTATE OF OTTO TIMME, DECEASED, doing business as E. F. Timme & Son, New York, N. Y. Filed Jan. 26, 1939.

ARTUFT

For Textile Rugs.
Claims use since Jan. 13, 1939.

Ser. No. 416,849. THE GERNES GARMENT COMPANY, INC., Kansas City, Mo. Filed Mar. 9, 1939.



The drawing is lined for red. The word "Cool" is disclaimed apart from the mark.
For Cotton, Rayon Piece Goods.
Claims use since September, 1938.

Ser. No. 417,698. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Filed Mar. 31, 1939.

Baby Mae

For Crib Sheets and Pillow Cases, Knit Crib Sheets, Terry Knit Towels, Wash Cloths, Bath Sheets, Knit Towels and Wash Cloths, Combination Towel and Wash Cloth Sets, Flannel Receiving Blankets, Chenille Crib Spreads.
Claims use since Mar. 17, 1939.

Ser. No. 418,023. FOLKER FABRICS, INC., New York, N. Y. Filed Apr. 10, 1939.

COUNTRY GARDEN PRINTS

The word "Prints" is disclaimed apart from the mark.
For Printed Textile Fabrics in the Piece, of Silk, Rayon, and Combinations Thereof.
Claims use since Nov. 1, 1938.

Ser. No. 418,024. FOLKER FABRICS, INC., New York, N. Y. Filed Apr. 10, 1939.

FLOWER GARDEN PRINTS

The word "Prints" is disclaimed apart from the mark.
For Printed Textile Fabrics in the Piece, of Silk, Rayon, and Combinations Thereof.
Claims use since Nov. 1, 1938.

Ser. No. 418,465. WELLINGTON SEARS COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 19, 1939.

JUNIPER

For Canvas Duck.
Claims use since Oct. 5, 1938.

CLASS 43

Thread and Yarn

Ser. No. 418,284. HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y. Filed Apr. 15, 1939.



For Yarn.
Claims use since Mar. 11, 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 376,161. JENAER GLASWERK SCHOTT & GEN., Jena, Germany. Filed Mar. 19, 1936. Under section 5b of the act of 1905 as amended in 1920.

SCHOTT

For Medical, Surgical, and Dental Instruments, Materials, and Appliances, Medical and Hygienic Apparatus and Instruments, Chemical Pharmaceutical Glassware.
Claims use on medical, surgical, and dental instruments, materials, and appliances since about 1935; on medical and hygienic apparatus and instruments since about 1934; and on chemical pharmaceutical glassware since about 1907.

Ser. No. 378,963. JENAER GLASWERK SCHOTT & GEN., Jena, Germany. Filed May 28, 1936. Under section 5b of the act of 1905 as amended in 1920.

Jena Glass

For Medical, Surgical, and Dental Instruments, Materials, and Appliances, Medical and Hygienic Apparatus and Instruments, Chemical Pharmaceutical Glassware.

Claims use on medical, surgical, and dental instruments, materials, and appliances since about 1935; on medical and hygienic apparatus and instruments since about 1934; and on chemical pharmaceutical glassware since about 1907.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 375,708. KARASIK BROS. CO., Chicago, Ill. Filed Mar. 7, 1936.

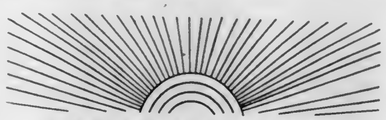
Red Ray

The drawing is lined for red.

For Canned Foods—Namely, Salmon, Spaghetti, Carrots, Coffee.

Claims use since Jan. 21, 1936.

Ser. No. 403,120. ESKIMO PIE CORPORATION, Bloomfield, N. J. Filed Feb. 17, 1938.



"RISING SUN"

For Edible Coating Such as Chocolate for Ice Cream and Like Confections.

Claims use since Jan. 15, 1938.

Ser. No. 403,559. CHRISTUS A. PAPAS, doing business as Lily's Chocolate Shop, Covington, Ky. Filed Mar. 1, 1938.



Lily's

Home Made Candies

"Made to Please"

The phrase 'Home-Made Candies "Made to Please"' is disclaimed apart from the mark.

For Candy.

Claims use since Feb. 20, 1932.

Ser. No. 407,397. A. H. VAYO, Harlingen, Tex. Filed June 11, 1938.

DEL-I-PAK

The word "Pak" is disclaimed apart from the mark.

For Fresh Citrus Fruits, and Vegetables and Canned Orange Juice and Canned Grapefruit Juice for Food Purposes.

Claims use since July 1, 1937.

Ser. No. 408,254. TIEN CHU VE-TSIN MANUFACTURING CO., LTD., Shanghai, China. Filed July 6, 1938.



The English translation of the Chinese characters is "Taste Forefather" and "Best Art of Cooking".

The applicaant of the trade-mark for which registration is sought is also the owner of the registrations Nos. 339,399 and 344,726.

For Food Flavoring Compound.

Claims use since November, 1923.

Ser. No. 410,849. STANARD-TILTON MILLING CO., Alton, Ill. Filed Sept. 21, 1938.

TABLE QUEEN

For Flour Milled from Wheat.

Claims use since 1898.

Ser. No. 411,066. MARKO ZANINOVICH, Earlimart and Delano, Calif. Filed Sept. 28, 1938.

SUNVIEW

For Fresh Fruits, Deciduous and Citrus, and Fresh Grapes.

Claims use since Aug. 1, 1927.

Ser. No. 413,073. LANDI & AVINO, New York, N. Y. Filed Nov. 23, 1938.

NAPOLI CANTA

The word "Napoli" is disclaimed apart from the mark.

For Canned Tomatoes.

Claims use since Oct. 5, 1938.

Ser. No. 413,703. DIXIE MILLS COMPANY, East St. Louis, Ill. Filed Dec. 12, 1938.

DIXIE DOG FOOD



The words "Dog Food" are disclaimed apart from the mark.

For Dog Food.

Claims use since September, 1932.

Ser. No. 414,513. SWEET LIFE FOOD CORPORATION, Brooklyn, N. Y. Filed Jan. 4, 1939.

SWEET LIFE

For Canned Fruits, Canned Vegetables, Canned Fish, Fruit Juices, Canned Soups, Spices, Fruit Preserves, Canned Evaporated Milk, Canned Sliced Beef, Canned Corned Beef, Canned Corned Beef Hash, Canned Clams, Canned Shrimp, Tomato Catsup, Chili Sauce, Mayonnaise, Vinegar, Cider Vinegar.

Claims use since June 15, 1916.

Ser. No. 415,206. JOSE ALMEIDA, New Bedford, Mass. Filed Jan. 25, 1939.



The portrait is fanciful.

For Olive Oil.

Claims use since April, 1931.

Ser. No. 415,401. KLIX INC., Los Angeles, Calif. Filed Jan. 30, 1939.

KLIX

NUT LIKE SOY

KERNELS

The words "Nut Like Soy Kernels" are disclaimed apart from the mark.

For Toasted Soy Bean Kernels.

Claims use since Dec. 15, 1936.

Ser. No. 417,312. UNITED FROSTED FOODS, INC., Chicago, Ill. Filed Mar. 20, 1939.

Four Winds

For Fresh Frozen Vegetables, Fruits, Berries, Fish, and Poultry.

Claims use since Mar. 11, 1939.

Ser. No. 417,357. THE BORDEN COMPANY, New York, N. Y. Filed Mar. 22, 1939.

Econo-way

For Fluid Milk.

Claims use since Feb. 21, 1939.

Ser. No. 417,411. NESTRA PACKING COMPANY, Berkley, Mich. Filed Mar. 23, 1939.

SUPER SUPPER

No claim is made to the word "Supper" apart from the mark.

For Dog Food.

Claims use since Jan. 20, 1939.

Ser. No. 417,491. RAY A. HARTNESS, Weslaco, Tex. Filed Mar. 25, 1939.

HARTNESS'

RED OWL

No claim is made to the name "Hartness" apart from the mark.

For Fresh Vegetables.

Claims use since Mar. 9, 1939.

Ser. No. 417,520. HILDA MERVINE, Chicago, Ill. Filed Mar. 25, 1939.



For French Dressing.
Claims use since Sept. 1, 1938.

Ser. No. 417,573. GUM INCORPORATED, Philadelphia, Pa. Filed Mar. 28, 1939.

THE WORLD IN ARMS

For Chewing Gum.
Claims use since Mar. 20, 1939.

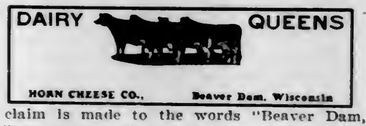
Ser. No. 417,588. SAN PAT VEGETABLE CO. INC., Sinton, Tex. Filed Mar. 28, 1939.



SAN PAT

The design is a fanciful representation of St. Patrick, patron Saint of Ireland.
For Fresh Vegetables.
Claims use since February, 1929.

Ser. No. 417,691. EDWARD HORN, doing business as Horn Cheese Company, Beaver Dam, Wis. Filed Mar. 31, 1939.



No claim is made to the words "Beaver Dam, Wisconsin" apart from the mark.
For Cheese.
Claims use since May 29, 1934.

Ser. No. 417,826. SOYA-VITAMIN SALES CORP., New York, N. Y. Filed Apr. 3, 1939.

BESKOR

For Vegetable Shortening and Cooking Product.
Claims use since January, 1937.

Ser. No. 417,906. SAM J. DAVIS, Homestead, Fla. Filed Apr. 6, 1939.

Vita-Rich

No claim is made to the word "Rich" apart from the mark.
For Fresh Avocados.
Claims use since Dec. 15, 1938.

Ser. No. 417,918. KELCO COMPANY, San Diego, Calif. Filed Apr. 6, 1939.

KELTOSE

For Sodium Alginate Product for Use as a Colloidal Stabilizer in Meringue, Icings, and Confectioneries.
Claims use since Feb. 23, 1939.

Ser. No. 417,982. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Apr. 7, 1939.

WHI-TEX

For Frozen Egg White Material Suitable for Use as an Ingredient in Making Cakes and Other Food Products.
Claims use since Jan. 19, 1939.

Ser. No. 418,001. B. FILIPPONE & CO. INC., Passaic, N. J. Filed Apr. 8, 1939.

FIOR DI PASQUA

For Macaroni.
Claims use since Apr. 5, 1939.

Ser. No. 418,032. ALFRED CATANZARO, doing business as A. Catanzaro & Co., Long Island City, N. Y. Filed Apr. 10, 1939.

Zaza

For Olive Oil.
Claims use since Mar. 3, 1939.

Ser. No. 418,044. INDUSTRIAL SUGARS CORPORATION, Chicago, Ill. Filed Apr. 10, 1939.

SUCREME

Applicant is the owner of registered trade-mark No. 179,959, dated February 19, 1924.
For Syrups Comprising Essentially Dextrose, Levulose, and Sucrose.
Claims use since Mar. 6, 1939.

Ser. No. 418,086. JOHN WIESEHAN, doing business as John Wiesehan & Co., McAllen, Tex. Filed Apr. 10, 1939.

FULL O' SUN

For Fresh Vegetables.
Claims use since Mar. 1, 1938.

Ser. No. 418,130. ARECIBO FRUIT GROWERS COOPERATIVE ASSOCIATION, Arecibo, P. R. Filed Apr. 12, 1939.

NU-HIT

For Canned Fruit Juices for Food Purposes.
Claims use since Dec. 1, 1938.

Ser. No. 418,264. RIPLEY VEGETABLE COMPANY, INC., Mercedes, Tex. Filed Apr. 14, 1939.

BUCCANEER

For Fresh Vegetables.
Claims use since November, 1930.

CLASS 47

Wines

Ser. No. 408,187. E. D'EMARESE DI S. RICHETTA & FIGLI, Turin, Italy. Filed July 5, 1938. Under 10-year proviso.

BAIRO

For Vermouth.
Claims use since August, 1880.

Ser. No. 418,106. ITALIAN SWISS COLONY, San Francisco, Calif. Filed Apr. 11, 1939.

COLONY Special

No claim is made to the word "Special" apart from the mark.
For Wines.
Claims use since July 23, 1937.

Ser. No. 418,270. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed Apr. 14, 1939.

IDOLO

For Wines.
Claims use since Sept. 29, 1937.

Ser. No. 418,271. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed Apr. 14, 1939.

Sun-Glory

For Wines.
Claims use since Feb. 10, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 416,446. THE MARATHON CITY BREWING COMPANY, Marathon City, Wis. Filed Feb. 27, 1939.



All wording except "Marathon" and applicant's name is disclaimed apart from the mark. The representation of the label per se is disclaimed.
For Beer.
Claims use since Jan. 26, 1939.

Ser. No. 417,367. DEHLS & STEIN, INC., Newark, N. J. Filed Mar. 22, 1939.

ALBUMALT

For Cereal Extract for Use in the Brewing Industry.
Claims use since Sept. 17, 1937.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 412,824. MUNICIPAL LIQUOR STORES ASSOCIATION, Minneapolis, Minn. Filed Nov. 16, 1938.

M·L·S·A

For Whiskies, Gin, Brandy, Rum, and Cordials.
Claims use since Nov. 1, 1938.

Ser. No. 418,530. JAS. E. PEPPER & COMPANY, Lexington, Ky., and New York, N. Y. Filed Apr. 21, 1939.

BORN WITH THE REPUBLIC

For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials.
Claims use since 1914.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 417,848. PERVEL CORPORATION, New York, N. Y. Filed Apr. 4, 1939.

Pervel

For Cellulose Material in Sheet Form Used for Curtains, Draperies, Window Shades, Window Dressing for Stores, Shower Curtains, Furniture Polishers, Dress Patterns, Dresser Scarfs, Shower Mats, Curl Wraps for Permanent Waving, Pattern Cutting Goods, Outdoor Signs and Banners, Hand Bag and Luggage Linings, Laminated and Decorated Table Mats, Waterproof Wrappings, Artificial Flowers, Electric Fan Covers, Jelly Glass Covers, Piano Covers, and Also in the Manufacture of Table Oil Cloths, Linoleums, and Similar Floor Coverings.

Claims use since Aug. 30, 1937.

Ser. No. 418,723. MEMORIALS PERMANESQUE INC., Barre, Vt. Filed Apr. 26, 1939.

M P

For Granite Monuments and Memorials.

Claims use since Apr. 10, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 13, 1939

368,196. FOUNTAIN PEN NIBS. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa.
Filed June 27, 1931. Serial No. 316,385. PUBLISHED MAY 16, 1933. Class 37.

368,197. WRAPPING PAPER AND KRAFT PAPER. SOUTHERN KRAFT CORPORATION, New York, N. Y.
Filed October 28, 1935. Serial No. 370,901. PUBLISHED APRIL 4, 1939. Class 37.

368,198. INKSTANDS, PEN AND INKSTANDS, DESK SETS, CORRESPONDENCE RACKS OR HOLDERS, AND BLOTTER HOLDERS OF BASE METAL. KENSINGTON, INCORPORATED, New Kensington, Pa.
Filed January 28, 1936. Serial No. 374,195. PUBLISHED APRIL 4, 1939. Class 37.

368,199. WHEAT FLOUR AND SCRATCH FEED. THE CHARLESTON MILLING & PRODUCE COMPANY, Charleston, W. Va., now by change of name Charleston Milling Company.
Filed March 7, 1936. Serial No. 375,692. PUBLISHED APRIL 12, 1938. Class 46.

368,200. WOMEN'S FUR COATS, FUR JACKETS, FUR SCARFS, FUR COLLARS, AND FUR CUFFS. GOULD'S, INC., Minneapolis, Minn.
Filed July 24, 1936. Serial No. 381,391. PUBLISHED APRIL 4, 1939. Class 39.

368,201. OUTER SHIRTS, PANTS, AND JACKETS. OBERMAN & COMPANY, Jefferson City, Mo.
Filed January 30, 1937. Serial No. 388,365. PUBLISHED APRIL 4, 1939. Class 39.

368,202. HAND SOAP AND SHAVING CREAM. BULLOCK'S, INC., Los Angeles, Calif.
Filed March 30, 1937. Serial No. 390,686. PUBLISHED APRIL 4, 1939. Class 4.

368,203. BRACES, BITS, DRAWING KNIVES, SNIPS, PLIERS, ADJUSTABLE ANGLE WRENCHES, MONKEY WRENCHES, PIPE WRENCHES, ETC. THE PECK, STOW & WILCOX COMPANY, Southington, Conn.
Filed August 27, 1937. Serial No. 396,830. PUBLISHED APRIL 4, 1939. Class 23.

368,204. SELF SHINE LIQUID FLOOR WAX, FURNITURE POLISH, LINOLEUM WAX DRESSING, WAX PASTE. BENJAMIN GITTLEMAN, doing business as Lincoln Lace and Braid Company and Thompson Chemical Company, Cranston, R. I.
Filed October 2, 1937. Serial No. 398,041. PUBLISHED APRIL 4, 1939. Class 16.

368,205. PIECE GOODS OF A MIXTURE OF COTTON, RAYON, AND SILK; A MIXTURE OF COTTON AND RAYON; LINEN; ALL SILK; A MIXTURE OF RAYON AND SILK, AND OTHER COMBINATIONS. NATIONAL FABRICS CORPORATION, New York, N. Y.
Filed October 4, 1937. Serial No. 398,122. PUBLISHED SEPTEMBER 6, 1938. Class 42.

368,206. WRITING AND PRINTING PAPER. NATION WIDE PAPERS, INC., Chicago, Ill.
Filed November 4, 1937. Serial No. 399,314. PUBLISHED APRIL 4, 1939. Class 37.

368,207. SPEEDOMETERS. STEWART-WARNER CORPORATION, Chicago, Ill.
Filed November 8, 1937. Serial No. 399,484. PUBLISHED APRIL 4, 1939. Class 26.

368,208. ILLUMINATING EQUIPMENT FOR MOTOR VEHICLES, SUCH AS SEARCHLIGHTS, SPOTLIGHTS, TAIL AND STOP LIGHTS, ETC. DAIMLER-BENZ AKTIENGESELLSCHAFT, Stuttgart-Unterturkheim, Germany.
Filed November 11, 1937. Serial No. 399,602. PUBLISHED JANUARY 10, 1939. Class 34.

368,209. OYSTER CRACKERS. MOUNTAIN CITY MILL CO., doing business as Chattanooga Bakery, Chattanooga, Tenn.
Filed January 3, 1938. Serial No. 401,502. PUBLISHED APRIL 4, 1939. Class 46.

368,210. CANNED FRUIT JUICES FOR FOOD PURPOSES, EXCEPT CITRUS FRUIT JUICES. HEARST SUNICAL LAND AND PACKING CORPORATION, San Francisco, Calif.
Filed January 11, 1938. Serial No. 401,845. PUBLISHED JUNE 21, 1938. Class 46.

368,211. MEN'S AND BOYS' TOPCOATS AND OVERCOATS. LEVY BROS. & ADLER ROCHESTER, INCORPORATED, Rochester, N. Y.
Filed January 15, 1938. Serial No. 401,938. PUBLISHED APRIL 4, 1939. Class 39.

368,212. FRUIT JUICE EXTRACTORS FOR EXTRACTING JUICES FROM FRUITS, SUCH AS ORANGES, LEMONS, GRAPEFRUIT, AND THE LIKE. NATIONAL DIE CASTING SALES CORP., Chicago, Ill.
Filed January 21, 1938. Serial No. 402,196. PUBLISHED APRIL 4, 1939. Class 23.

368,213. CANNED SQUASH, PUMPKIN, AND MINCEMEAT. MEDOMAK CANNING COMPANY, Rockland, Maine.
Filed January 29, 1938. Serial No. 402,483. PUBLISHED APRIL 4, 1939. Class 46.

368,214. COLUMN HEADING PUBLISHED DAILY. FRANCIS M. CRONAN, Bethesda, Md.
Filed February 4, 1938. Serial No. 402,680. PUBLISHED APRIL 12, 1938. Class 38.

368,215. ARCH SUPPORTS, FOOT SUPPORTS, CUSHIONS, AND PADS FOR SHOES. CLAUDE H. DANIELS, East Portchester, Conn.
Filed February 8, 1938. Serial No. 402,815. PUBLISHED APRIL 4, 1939. Class 44.

368,216. LIGHTING APPARATUS FOR PHOTOGRAPHIC PURPOSES, OBJECTIVES, LENSES AND FRONT LENSES, LIGHT FILTERS, ETC. FRANKE & HEIDECKE FABRIK PHOTOGRAPHISCHER PRÄZISIONSAPPARATE, Brunswick, Germany.
Filed February 12, 1938. Serial No. 402,968. PUBLISHED APRIL 4, 1939. Class 26.

368,217. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio.
Filed March 5, 1938. Serial No. 403,740. PUBLISHED APRIL 4, 1939. Class 22.

368,218. CHEESE. ALEX FURST, Peoria, Ill.
Filed March 24, 1938. Serial No. 404,436. PUBLISHED APRIL 4, 1939. Class 46.

368,219. NON-METALLIC SHEATHED ELECTRICAL CABLE. UNITED STATES RUBBER PRODUCTS, INC., New York, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey.
Filed March 30, 1938. Serial No. 404,669. PUBLISHED APRIL 4, 1939. Class 21.

368,220. COFFEE. AMERICAN STORES COMPANY, Philadelphia, Pa.
Filed March 31, 1938. Serial No. 404,679. PUBLISHED APRIL 4, 1939. Class 46.

368,221. COFFEE. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed April 2, 1938. Serial No. 404,820. PUBLISHED APRIL 4, 1939. Class 46.

368,222. NEWSPAPER COLUMN PUBLISHED PERIODICALLY. THE MCNAUGHT SYNDICATE, INC., New York, N. Y.
Filed April 9, 1938. Serial No. 405,076. PUBLISHED MARCH 28, 1939. Class 38.

368,223. CANNED FRUIT JUICES FOR FOOD PURPOSES EXCEPT CITRUS FRUIT JUICES. HEARST SUNICAL LAND AND PACKING CORPORATION, San Francisco, Calif.
Filed April 25, 1938. Serial No. 405,751. PUBLISHED OCTOBER 18, 1938. Class 46.

368,224. FACE POWDER. DOROTHY GRAY SALONS, Bloomfield, N. J.
Filed April 27, 1938. Serial No. 405,782. PUBLISHED JULY 12, 1938. Class 6.

368,225. FLOOR WAX. R. A. MYERS & COMPANY, St. Paul, Minn.
Filed May 5, 1938. Serial No. 406,027. PUBLISHED APRIL 4, 1939. Class 16.

368,226. METAL TUBING. UNITED WIRE & SUPPLY CORPORATION, Cranston, R. I.
Filed May 7, 1938. Serial No. 406,107. PUBLISHED APRIL 4, 1939. Class 13.

368,227. PUBLICATIONS IN THE FORM OF A SERVICE LETTER, RELATING TO THE AUTOMOTIVE INDUSTRY PUBLISHED AT IRREGULAR INTERVALS. AUTOMOTIVE NEWS SERVICE, New York, N. Y.
Filed May 19, 1938. Serial No. 406,489. PUBLISHED APRIL 4, 1939. Class 38.

368,228. PUNCHES, SOLID PUNCHES, PIN PUNCHES, SICKLE-SECTION PUNCHES, BLACKSMITHS' PUNCHES, FARMERS' PUNCHES, ETC. ENDERES INCORPORATED, Albert Lea, Minn.
Filed May 26, 1938. Serial No. 406,849. PUBLISHED OCTOBER 4, 1938. Class 23.

368,229. NAIL FILE RECEPTACLES, TUMBLERS, PLATES, CUPS, AND BEVERAGE SETS CONSISTING OF TUMBLERS, COASTERS, AND SPOONS, MADE FROM SYNTHETIC RESINS, PHENOL-FORMALDEHYDE RESINS, POLYSTYRENE RESINS, CELLULOSE ACETATE, AND ETHYL CELLULOSE. THE KILGORE MFG. COMPANY, Westerville, Ohio.
Filed June 24, 1938. Serial No. 407,866. PUBLISHED APRIL 4, 1939. Class 2.

368,230. CANDY. HUYLER'S, New York, N. Y.
Filed June 27, 1938. Serial No. 407,948. PUBLISHED APRIL 4, 1939. Class 46.

368,231. CLEANING COMPOUND IN PASTE AND/OR CRYSTAL FORM FOR GENERAL CLEANING PURPOSES. MAHALA BROTHERS, Gary, Ind.
Filed June 30, 1938. Serial No. 408,067. PUBLISHED APRIL 4, 1939. Class 4.

368,232. MEATS AND MEAT PRODUCTS—NAMELY, DRIED SAUSAGE, SMOKED SAUSAGE, BACON, HAM, SMOKED HAM, BOILED HAM, BLOOD AND TONGUE LOAF, BEEF, CORNED BEEF, AND BUTTER. OSCAR MAYER & COMPANY, Chicago, Ill.
Filed July 9, 1938. Serial No. 408,351. PUBLISHED APRIL 4, 1939. Class 46.

368,233. INTERFOLDED TOILET PAPER SOLD IN FLAT PACKAGES. CROWN ZELLERBACH CORPORATION, also doing business as National Paper Products Company, San Francisco, Calif.
Filed July 13, 1938. Serial No. 408,457. PUBLISHED APRIL 4, 1939. Class 37.

368,234. WEIGHING SCALES. TOLEDO SCALE MANUFACTURING COMPANY, Toledo, Ohio.
Filed July 27, 1938. Serial No. 408,975. PUBLISHED APRIL 4, 1939. Class 26.

368,235. PORCELAIN TEETH, DENTURES COMPRISING BASE AND TEETH, AND DENTURE PARTS. AUSTENAL LABORATORIES, INC., New York, N. Y.
Filed August 16, 1938. Serial No. 409,637. PUBLISHED APRIL 4, 1939. Class 44.

368,236. WATERMELONS. HENRY MCR. PINNER, doing business as Pinner & Co., Suffolk, Va.
Filed August 16, 1938. Serial No. 409,653. PUBLISHED APRIL 4, 1939. Class 46.

368,237. ILLUMINATING APPARATUS FOR DISCLOSING DEFECTS OF PRECIOUS STONES THROUGH THE AGENCY OF CONCENTRATED LIGHT. GEMOLOGICAL INSTITUTE OF AMERICA, Los Angeles, Calif.
Filed August 27, 1938. Serial No. 410,056. PUBLISHED APRIL 4, 1939. Class 26.

368,238. SCOTCH TYPE WHISKEY. JULIUS LOESER COMPANY, INC., Chicago, Ill.
Filed September 10, 1938. Serial No. 410,434. PUBLISHED NOVEMBER 22, 1938. Class 49.

368,239. STITCHING, SEWING, STAMPING, ASSEMBLING, COMPRESSING, BINDING, PASTING, PUNCHING, FOLDING, TRIMMING, COATING, AND COVERING MACHINES FOR CARDBOARD, LEATHER, AND LIKE MATERIALS. GEBRÜDER BREHMER, Leipzig-Plagwitz, Germany.
Filed September 17, 1938. Serial No. 410,680. PUBLISHED APRIL 4, 1939. Class 23.

368,240. SYNDICATED COLUMN APPEARING PERIODICALLY IN NEWSPAPERS. TOM FIZDALE, INC., Chicago, Ill.
Filed September 19, 1938. Serial No. 410,730. PUBLISHED APRIL 5, 1939. Class 38.

368,241. CANNED FISH. SEBASTIAN STUART FISH CO. Seattle, Wash.
Filed September 23, 1938. Serial No. 410,931. PUBLISHED APRIL 4, 1939. Class 46.

368,242. PAPER BAKING CUPS, PAPER BUTTER CHIPS, PAPER CANDY CUPS, PAPER CHOP-HOLDERS, PAPER DRINKING CUPS, ECLAIR CASES, PAPER FINGER BOWL LINERS, PAPER CUPS AND CONTAINERS, PAPER RAMEKINS, AND PAPER SUNDAE DISH LINERS. AMERICAN LACE PAPER COMPANY, Milwaukee, Wis.
Filed October 6, 1938. Serial No. 411,327. PUBLISHED DECEMBER 6, 1938. Class 2.

368,243. FROZEN CONFECTIONS. GOOD HUMOR CORPORATION OF AMERICA, Brooklyn, N. Y.
Filed October 6, 1938. Serial No. 411,352. PUBLISHED APRIL 4, 1939. Class 46.

368,244. WHEAT FLOUR. CHARLES BANKS STOUT, doing business as Higginsville Flour Mill, Memphis, Tenn.
Filed October 12, 1938. Serial No. 411,554. PUBLISHED MARCH 28, 1939. Class 46.

368,245. SCRIPS FOR A SERIES OF COMMERCIAL RADIO BROADCASTS, SOLD IN TRADE AS A PUBLICATION AND BOOKLETS OF SONGS AND VERSE ISSUED FROM TIME TO TIME. THE PACIFIC UNION ASSOCIATION OF SEVENTH DAY ADVENTISTS, Glendale, Calif.
Filed October 17, 1938. Serial No. 411,704. PUBLISHED APRIL 4, 1939. Class 38.

368,246. SLICED SMOKED BACON, BISMARCK STYLE MEAT LOAF, LIVER LOAF, DE LUXE LOAF (MEAT INCLUDING OLIVES AND PIMENTOS), ETC. OSCAR MAYER & COMPANY, Chicago, Ill.
Filed October 19, 1938. Serial No. 411,787. PUBLISHED APRIL 4, 1939. Class 46.

368,247. MECHANICAL SIGNS SUCH AS ADVERTISING SIGNS, HIGHWAY WARNING AND MARKING SIGNS, STREET SIGNS, ETC. WESTERN CATAPHOTE CORPORATION, Toledo, Ohio.
Filed October 21, 1938. Serial No. 411,924. PUBLISHED APRIL 4, 1939. Class 50.

368,248. PAD FOR A NEWLY BORN INFANT. LISA ALBERT, doing business as L. Albert Co., New York, N. Y.
Filed October 31, 1938. Serial No. 412,207. PUBLISHED APRIL 4, 1939. Class 42.

368,249. BEER. LOS ANGELES BREWING CO., also doing business as Eastside Distributing Co., Los Angeles, Calif.
Filed November 1, 1938. Serial No. 412,263. PUBLISHED APRIL 4, 1939. Class 48.

368,250. CANNED VEGETABLES. HARLINGEN CANNING COMPANY, Harlingen, Tex.
Filed November 2, 1938. Serial No. 412,296. PUBLISHED APRIL 4, 1939. Class 46.

368,251. WOMEN'S, MISSES', AND CHILDREN'S UNDERGARMENTS—NAMELY, PANTIES, BLOOMERS, STEP-INS, CHEMISES, SLIPS, SHIRTS, VESTS, AND SWEATERS. CONTINENTAL UNDERGARMENT CO., INC., New York, N. Y.
Filed November 5, 1938. Serial No. 412,406. PUBLISHED MARCH 28, 1939. Class 39.

368,252. ARCHITECTURAL AND STRUCTURAL PLANS AND DRAWINGS. DIAGRID STRUCTURES LIMITED, London, England.
Filed November 5, 1938. Serial No. 412,408. PUBLISHED MARCH 28, 1939. Class 38.

368,253. HEAD SUPPORTS FOR GOGGLES. CORNELL-LENZ COMPANY, San Leandro, Calif.
Filed November 14, 1938. Serial No. 412,697. PUBLISHED APRIL 4, 1939. Class 26.

368,254. MEN'S SUITS AND OVERCOATS. SISKIND TAILORING CO., INC., New York, N. Y.
Filed November 14, 1938. Serial No. 412,736. PUBLISHED MARCH 28, 1939. Class 39.

368,255. MEN'S AND WOMEN'S CLOTHING—NAMELY, MEN'S SUITS, COATS, AND TOP COATS, AND WOMEN'S SUITS AND COATS. CHESTER BARRIE, INC., New York, N. Y.
Filed November 16, 1938. Serial No. 412,796. PUBLISHED MARCH 28, 1939. Class 39.

368,256. CREAM, ICE CREAM MIX, MILK, AND OTHER DAIRY PRODUCT BATCH MIXERS AND BATCH PASTEURIZERS. CHERRY-BURRELL CORPORATION, Chicago, Ill.
Filed November 19, 1938. Serial No. 412,942. PUBLISHED APRIL 4, 1939. Class 23.

368,257. GAME PLAYED WITH A GAME BOARD AND MOVABLE GAME PIECES. H. O. WALKER, Phoenix, Ariz.
Filed November 19, 1938. Serial No. 412,989. PUBLISHED APRIL 4, 1939. Class 22.

368,258. TRICOT AND MILANESE FABRICS IN THE PIECE. FAIRY SILK MILLS, Shillington, Pa.
Filed November 21, 1938. Serial No. 413,009. PUBLISHED APRIL 4, 1939. Class 42.

368,259. CANNED FOODS—NAMELY, SHELLFISH, CHOWDER, SHORE DINNERS (CONTAINING LOBSTER, SHRIMP, FISH, SOFT CLAMS, AND OYSTERS IN A SAUCE), AND SEA FOOD NEWBURG (CONTAINING SCALLOPS, LOBSTER, LUMP CRAB-MEAT, AND SHRIMP IN A SAUCE). HACKNEY'S SEA FOOD PRODUCTS, INC., also doing business as Hackney's Restaurants, Atlantic City, N. J.
Filed November 25, 1938. Serial No. 413,123. PUBLISHED APRIL 4, 1939. Class 46.

368,260. PIPE TOBACCO. PHILIP MORRIS & CO. LTD. INCORPORATED, New York, N. Y.
Filed November 25, 1938. Serial No. 413,139. PUBLISHED APRIL 4, 1939. Class 17.

368,261. ARTIFICIAL TEETH. THE COLUMBUS DENTAL MANUFACTURING CO., Columbus, Ohio.
Filed November 28, 1938. Serial No. 413,219. PUBLISHED APRIL 4, 1939. Class 44.

368,262. ARTIFICIAL TEETH. THE COLUMBUS DENTAL MANUFACTURING CO., Columbus, Ohio.
Filed November 28, 1938. Serial No. 413,220. PUBLISHED APRIL 4, 1939. Class 44.

368,263. FORMS IN VARIOUS SIZES FOR BLOCKING SWEATERS AND OTHER KNITTED GOODS. D. MINARD SHAW, New York, N. Y.
Filed November 30, 1938. Serial No. 413,321. PUBLISHED APRIL 4, 1939. Class 50.

368,264. ELECTRICALLY OPERATED KITCHEN GARBAGE CUTTERS FOR ATTACHMENT DIRECTLY TO DRAIN PIPES INTO WHICH THE COMMINUTED GARBAGE FEEDS. JOHN W. HAMMES, doing business as In-Sink-Erator Company, Racine, Wis.
Filed December 1, 1938. Serial No. 413,344. PUBLISHED APRIL 4, 1939. Class 21.

368,265. PIPE TOBACCO AND CIGARETTES. CHICAGO TOBACCO CO., Chicago, Ill.
Filed December 3, 1938. Serial No. 413,434. PUBLISHED APRIL 4, 1939. Class 17.

368,266. SILK NECKTIES. THE METCALF NECKWEAR COMPANY, Cleveland, Ohio.
Filed December 3, 1938. Serial No. 413,451. PUBLISHED MARCH 28, 1939. Class 39.

368,267. WHISKY. DUNCAN WESTON & COMPANY LIMITED, London, England.
Filed December 6, 1938. Serial No. 413,526. PUBLISHED APRIL 4, 1939. Class 49.

368,268. LADIES' TUB DRESSES, HOUSE DRESSES, AND MISSES' AND WAITRESSES' UNIFORMS. HENRY A. DIX & SONS CORPORATION, New York, N. Y.
Filed December 10, 1938. Serial No. 413,668. PUBLISHED MARCH 28, 1939. Class 39.

368,269. BARBECUE SAUCE, HORSERADISH, SPICES, POTATO CHIPS, BUTTERED POP CORN, PEANUTS, AND DRIED SOUP MIXTURES, BLACK PEPPER, HOT PEPPER SAUCE, AND BARBECUE HORSERADISH. LLOYD E. RICHARDSON, also doing business as Sun-Spot Products Co., St. Joseph, Mo.
Filed December 12, 1938. Serial No. 413,738. PUBLISHED APRIL 4, 1939. Class 46.

368,270. CANNED TUNA FISH. SEBASTIAN STUART FISH CO., Seattle, Wash.
Filed December 14, 1938. Serial No. 413,841. PUBLISHED APRIL 4, 1939. Class 46.

368,271. LEAD PENCILS, CRAYON PENCILS, INK PENCILS, AND MECHANICAL PENCILS. A. W. FABER, INC., doing business as Johann Faber, Newark, N. J.
Filed December 16, 1938. Serial No. 413,902. PUBLISHED APRIL 4, 1939. Class 37.

368,272. COTTON FLANNEL PIECE GOODS. CONSOLIDATED TEXTILE CO., INC., New York, N. Y.
Filed December 17, 1938. Serial No. 413,930. PUBLISHED APRIL 4, 1939. Class 42.

368,273. GAS SPACE HEATERS—NAMELY, HEATERS FOR THE LOCAL HEATING OF ROOMS. KIRKE R. WILSON, Buffalo, N. Y.
Filed December 17, 1938. Serial No. 413,964. PUBLISHED APRIL 4, 1939. Class 34.

368,274. PORTABLE ELECTRICAL CONTROL DEVICE TO OPERATE MINIATURE ELECTRIC RAILWAY SYSTEMS, SELF-CONTAINED AND ELECTRICALLY OPERATED, AND HAVING NO DIRECT CONNECTION WITH ELECTRIC MINIATURE RAILWAY SYSTEMS, FOR REMOTE CONTROL. PAUL ROMAN, New York, N. Y.
Filed December 19, 1938. Serial No. 414,002. PUBLISHED APRIL 4, 1939. Class 21.

368,275. WRAPPING PAPER. CROWN ZELLERBACH CORPORATION, San Francisco, Calif.
Filed December 21, 1938. Serial No. 414,054. PUBLISHED APRIL 4, 1939. Class 37.

368,276. TOBACCO HUMIDORS, CIGARETTE AND CIGAR BOXES, ALL MADE OF LEATHER. CHAS. A. SCHIBREN COMPANY, New York, N. Y.
Filed December 22, 1938. Serial No. 414,116. PUBLISHED APRIL 4, 1939. Class 8.

368,277. WINES. ITALIAN SWISS COLONY, San Francisco, Calif.
Filed December 24, 1938. Serial No. 414,193. PUBLISHED APRIL 4, 1939. Class 47.

368,278. STEEL ROTARY HOSE, ROTARY HOSE COUPLINGS, STAND PIPE OUTLETS, AND FITTINGS THEREFOR. OIL WELL MANUFACTURING CORPORATION, Los Angeles, Calif.
Filed December 27, 1938. Serial No. 414,234. PUBLISHED APRIL 4, 1939. Class 13.

368,279. STEEL ROTARY HOSE, ROTARY HOSE COUPLINGS, STAND PIPE OUTLETS, AND FITTINGS THEREFOR. OIL WELL MANUFACTURING CORPORATION, Los Angeles, Calif.
Filed December 27, 1938. Serial No. 414,235. PUBLISHED APRIL 4, 1939. Class 13.

368,280. CLEANSER FOR GENERAL HOUSEHOLD USES HAVING CLEANING AND DETERGENT PROPERTIES AND HAVING INCIDENTAL WATER SOFTENING PROPERTIES. LINCO PRODUCTS CORPORATION, Chicago, Ill.
Filed December 30, 1938. Serial No. 414,356. PUBLISHED APRIL 4, 1939. Class 4.

368,281. MEN'S SUITS AND OVERCOATS. HERBERT G. SPECTOR, Philadelphia, Pa.
Filed December 30, 1938. Serial No. 414,376. PUBLISHED MARCH 28, 1939. Class 39.

368,282. BATTERY TESTERS. ATLAS SUPPLY COMPANY, Newark, N. J.
Filed December 31, 1938. Serial No. 414,388. PUBLISHED APRIL 4, 1939. Class 26.

368,283. SMOKING TOBACCO. PARODI CIGAR COMPANY OF NEW YORK, INC., Scranton, Pa.
Filed December 31, 1938. Serial No. 414,408. PUBLISHED APRIL 4, 1939. Class 17.

368,284. FABRIC TREATED WITH NON-SLIPPING MATERIAL FOR USE IN PREVENTING SLIPPING OF RUGS. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed January 3, 1939. Serial No. 414,429. PUBLISHED APRIL 4, 1939. Class 50.

368,285. PAINTERS' AND CAULKERS' TOOLS—I. E., CAULKING GUNS, PUTTY KNIVES, AND SCRAPERS. CALBAR PAINT & VARNISH COMPANY, Philadelphia, Pa.
Filed January 3, 1939. Serial No. 414,434. PUBLISHED APRIL 4, 1939. Class 23.

368,286. RADIO TUBES AND SOCKETS. PHILADELPHIA STORAGE BATTERY COMPANY, Philadelphia, Pa.
Filed January 3, 1939. Serial No. 414,468. PUBLISHED APRIL 4, 1939. Class 21.

368,287. PREPARATION USED FOR PREPARING GLOSSY, ENAMELED, OR VARNISHED SURFACES FOR REFINISHING BY PAINTING, VARNISHING, ENAMELING, ETC., WHICH CAUSES THE NEW FINISH TO BIND TIGHTLY. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio.
Filed January 4, 1939. Serial No. 414,512. PUBLISHED APRIL 4, 1939. Class 16.

368,288. SPORT COATS AND TROUSERS AND APRONS FOR WOMEN AND GIRLS. LE ROY VAL FELGER, Santa Barbara, Calif.
Filed January 4, 1939. Serial No. 414,515. PUBLISHED MARCH 28, 1939. Class 39.

368,289. WEARING APPAREL—NAMELY, LADIES' AND CHILDREN'S SHORT-NIGHTIES, SLIPS, HALF-SLIPS, GOWNS, PAJAMAS, PANTIES, BLOOMERS, HOUSE COATS, SLACKS, CULOTTES, PLAY-SUITS, AND SWEATERS. GALE-ROSENBAUM COMPANY, St. Louis, Mo.
Filed January 5, 1939. Serial No. 414,523. PUBLISHED MARCH 28, 1939. Class 39.

368,290. WRITING PAPERS—NAMELY, LEDGER, RECORD, BOND, LINEN, ONION SKIN, LOOSE-LEAF, BANK NOTE, BANK PARCHMENT, TYPEWRITER, AND MANUSCRIPT COVER. L. L. BROWN PAPER COMPANY, Adams, Mass.
Filed January 6, 1939. Serial No. 414,551. PUBLISHED APRIL 4, 1939. Class 37.

368,291. LINGERIE, SPECIFICALLY FOR WOMEN'S AND GIRLS' PAJAMAS, NIGHTGOWNS, SLIPS, PANTIES, AND HOUSECOATS. "SEL-MOR" GARMENT CO. INC., St. Louis, Mo.
Filed January 6, 1939. Serial No. 414,580. PUBLISHED APR. 4, 1939. Class 39.

368,292. PARKING METERS. TRAFICO PARKING METER Co., Miami, Fla.
Filed January 6, 1939. Serial No. 414,582. PUBLISHED APRIL 4, 1939. Class 26.

368,293. LADIES', MISSES', AND CHILDREN'S CLOTH COATS, SUITS, SKIRTS, CAPES, BLOUSES, JACKETS, AND SWEATERS. S. COHEN & SONS, Baltimore, Md.
Filed January 9, 1939. Serial No. 414,624. PUBLISHED APRIL 4, 1939. Class 39.

368,294. WRITING AND PRINTING PAPER. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed January 10, 1939. Serial No. 414,671. PUBLISHED APRIL 4, 1939. Class 37.

368,295. M. G. TISSUE AND M. G. WRAPPING PAPER. SOUTHERN KRAFT CORPORATION, New York, N. Y.
Filed October 28, 1935. Serial No. 370,898. PUBLISHED APRIL 4, 1939. Class 37.

368,296. M. G. TISSUE AND M. G. WRAPPING PAPER. SOUTHERN KRAFT CORPORATION, New York, N. Y.
Filed October 28, 1935. Serial No. 370,900. PUBLISHED APRIL 4, 1939. Class 37.

368,297. ANNUAL PUBLICATION WITH REGARD TO THE SELECTION AND PROTECTION, THROUGH REGISTRATION AND COPYRIGHT, OF TRADE-MARKS, SLOGANS, DESIGNS, LABELS, PRINTS, AND ADVERTISING MATERIALS. BEEKMAN AITKEN, doing business as Trade Mark Protectors, New York, N. Y.
Filed January 11, 1939. Serial No. 414,680. PUBLISHED MARCH 21, 1939. Class 38.

368,298. WOMEN'S AND MISSES' COATS AND SUITS. MORRIS PELTZMAN COMPANY, INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,754. PUBLISHED APRIL 4, 1939. Class 39.

368,299. BOYS' LUMBER JACKETS, BOYS' KNICKERS, SHORTS, JUMPERALLS, SPORT COATS, BOYS' SUITS. B. SCHWARTZ & Co., Philadelphia, Pa.
Filed January 12, 1939. Serial No. 414,755. PUBLISHED APRIL 4, 1939. Class 39.

368,300. FORTNIGHTLY PUBLICATION DEVOTED TO THE PHARMACEUTICAL, DRUG, MERCHANDISING, AND ALLIED FIELDS. THE TOPICS PUBLISHING COMPANY, INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,759. PUBLISHED MARCH 14, 1939. Class 38.

368,301. PERIODICAL. DOWN BEAT PUBLISHING CO. INC., Chicago, Ill.
Filed January 13, 1939. Serial No. 414,776. PUBLISHED MARCH 28, 1939. Class 38.

368,302. FRESH DECIDUOUS FRUITS. EDW. H. DIVELBISS, Hotchkiss, Colo.
Filed January 14, 1939. Serial No. 414,823. PUBLISHED APRIL 4, 1939. Class 46.

368,303. POTATOES. PATRICK J. D'AQUILA, Jersey City, N. J.
Filed January 16, 1939. Serial No. 414,864. PUBLISHED APRIL 4, 1939. Class 46.

368,304. MATCHES. FISHER BROS. PAPER CO. INC., Fort Wayne, Ind.
Filed January 16, 1939. Serial No. 414,872. PUBLISHED APRIL 4, 1939. Class 9.

368,305. RUBBER SUBSTITUTE. STANDARD OIL DEVELOPMENT COMPANY, Linden, N. J.
Filed January 16, 1939. Serial No. 414,903. PUBLISHED APRIL 4, 1939. Class 1.

368,306. PERIODICAL. M. BISHOP ALEXANDER, Charleston, S. C.
Filed January 18, 1939. Serial No. 414,940. PUBLISHED MARCH 28, 1939. Class 38.

368,307. WINES. EAST SIDE WINERY, Lodi, Calif.
Filed January 18, 1939. Serial No. 414,946. PUBLISHED APRIL 4, 1939. Class 47.

368,308. TEXTILE FABRICS IN THE PIECE—NAMELY, SILK FABRICS, SATIN FABRICS, WOOL FABRICS, RAYON FABRICS, COTTON FABRICS, AND MIXTURES THEREOF, AND LACE FABRICS. SWISS FABRIC GROUP, New York, N. Y.
Filed January 18, 1939. Serial No. 414,970. PUBLISHED APRIL 4, 1939. Class 42.

368,309. MINERS' ELECTRIC LIGHTING OUTFITS AND PORTABLE SELF-CONTAINED ELECTRIC LIGHTING OUTFITS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed January 19, 1939. Serial No. 414,985. PUBLISHED APRIL 4, 1939. Class 21.

368,310. MINERS' ELECTRIC LIGHTING OUTFITS AND PORTABLE SELF-CONTAINED ELECTRIC LIGHTING OUTFITS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed January 19, 1939. Serial No. 414,987. PUBLISHED APRIL 4, 1939. Class 21.

368,311. FIREWORKS. J. HALPERN COMPANY, Pittsburgh, Pa.
Filed January 19, 1939. Serial No. 414,994. PUBLISHED APRIL 4, 1939. Class 9.

368,312. BIRD CAGES. THE ANDREW B. HENDRYX COMPANY, New Haven, Conn.
Filed January 19, 1939. Serial No. 414,996. PUBLISHED APRIL 4, 1939. Class 2.

368,313. BENCHES, DESKS, CHESTS, DRESSERS, CABINETS, BOOK CASES, BOOK CASE DOORS, WALL RACKS, BED ENDS, COUCH FRAMES, COUCH ENDS, TABLES OF ALL SORTS, STUDIO FRAMES, CHAIRS, BUFFETS. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed January 19, 1939. Serial No. 415,017. PUBLISHED APRIL 4, 1939. Class 32.

368,314. AUTOMOBILE BUSES. WENTWORTH & IRWIN, INC., Portland, Oreg.
Filed January 19, 1939. Serial No. 415,020. PUBLISHED APRIL 4, 1939. Class 19.

368,315. CANNED AND DRIED MUSHROOMS. SOLO PRODUCTS COMPANY, Chicago, Ill.
Filed January 19, 1939. Serial No. 415,023. PUBLISHED APRIL 4, 1939. Class 46.

368,316. DEVICES FOR ORAL HYGIENE, PARTICULARLY TOOTH BRUSHES, MASSAGE ELEMENTS, AND COMBINED TOOTH BRUSHES AND MASSAGE ELEMENTS. LACTONA, INCORPORATED, St. Paul, Minn.
Filed January 20, 1939. Serial No. 415,044. PUBLISHED APRIL 4, 1939. Class 29.

368,317. DOG FOOD. MID CITY WHOLESALE GROCERS, Cicero, Ill.
Filed January 20, 1939. Serial No. 415,050. PUBLISHED APRIL 4, 1939. Class 46.

368,318. BEER AND ALE. GENERAL BREWING CORPORATION, San Francisco, Calif.
Filed January 21, 1939. Serial No. 415,079. PUBLISHED APRIL 4, 1939. Class 48.

368,319. BEER. GENERAL BREWING CORPORATION, San Francisco, Calif.
Filed January 21, 1939. Serial No. 415,080. PUBLISHED APRIL 4, 1939. Class 48.

368,320. BOXED PAPER COMMONLY EMPLOYED FOR PRINTING AND WRITING PURPOSES. GRAHAM PAPER COMPANY, St. Louis, Mo.
Filed January 23, 1939. Serial No. 415,117. PUBLISHED APRIL 4, 1939. Class 37.

368,321. MEN'S CLOTHING—NAMELY, TWO AND THREE-PIECE SUITS, COATS, VESTS, TROUSERS, AND OVERCOATS. ROGER KENT, INC., New York, N. Y., New Haven, Conn., and Cambridge, Mass.
Filed January 23, 1939. Serial No. 415,123. PUBLISHED MARCH 28, 1939. Class 39.

368,322. GARDEN HOSE COUPLINGS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed January 23, 1939. Serial No. 415,141. PUBLISHED APRIL 4, 1939. Class 13.

368,323. GARDEN HOSE COUPLINGS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed January 23, 1939. Serial No. 415,142. PUBLISHED APRIL 4, 1939. Class 13.

368,324. GARDEN HOSE COUPLINGS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed January 23, 1939. Serial No. 415,143. PUBLISHED APRIL 4, 1939. Class 13.

368,325. LUBRICATING OILS AND GREASES, LUBRICATING OIL COMPOUNDS AND MOTOR-LUBRICATING OILS. THE LUBRI-ZOL CORPORATION, Wickliffe, Ohio.
Filed January 24, 1939. Serial No. 415,168. PUBLISHED MARCH 28, 1939. Class 15.

368,326. LADIES' BLOUSES, SHORTS, SPORTS DRESSES (ONE- AND TWO-PIECE), PLAY SUITS, SEPARATE SKIRTS, SPORTS JACKETS, LOUNGING PAJAMAS, AND MEN'S OUTER SHIRTS AND PAJAMAS. MCMULLEN-LEAVENS COMPANY, INC., New York, N. Y.
Filed January 24, 1939. Serial No. 415,170. PUBLISHED APRIL 4, 1939. Class 39.

368,327. CHOCOLATES. MILLER & HOLLIS, INC., Boston, Mass.
Filed January 24, 1939. Serial No. 415,173. PUBLISHED APRIL 4, 1939. Class 46.

368,328. SHOES FOR BOYS, MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1939. Serial No. 415,190. PUBLISHED APRIL 4, 1939. Class 39.

368,329. MEN'S AND BOYS' SUITS, COATS, VESTS, TROUSERS, OVERCOATS, DRESS SUITS, AND SCARFS. BAKER CLOTHES INC., Philadelphia, Pa.
Filed January 23, 1939. Serial No. 415,200. PUBLISHED MARCH 28, 1939. Class 39.

368,330. INKING RIBBONS USED WITH BUSINESS MACHINES—NAMELY, CASH REGISTERS, CALCULATING MACHINES, TYPEWRITERS, AND THE LIKE, AND CARBON PAPER. BURROUGHS ADDING MACHINE COMPANY, Detroit, Mich.
Filed January 25, 1939. Serial No. 415,210. PUBLISHED APRIL 4, 1939. Class 11.

368,331. MEN'S OUTER SHIRTS. LANGLEY'S, INC., New York, N. Y.
Filed January 25, 1939. Serial No. 415,221. PUBLISHED APRIL 4, 1939. Class 39.

368,332. PERIODICAL. RIMINGTON PUBLISHING CO., INC., New York, N. Y.
Filed January 26, 1939. Serial No. 415,260. PUBLISHED APRIL 4, 1939. Class 38.

368,333. LINEN PIECE GOODS. STEVENSON'S MOYGASHEL LINENS, LIMITED, New York, N. Y.
Filed January 26, 1939. Serial No. 415,269. PUBLISHED APRIL 4, 1939. Class 42.

368,334. MAGAZINE, PUBLISHED WEEKLY. THE TOGA PRESS INC., Washington, D. C.
Filed January 26, 1939. Serial No. 415,271. PUBLISHED APRIL 4, 1939. Class 38.

368,335. TELEGRAPHIC SENDING MACHINES. THE VIBROPLEX COMPANY, INC., New York, N. Y.
Filed January 26, 1939. Serial No. 415,275. PUBLISHED APRIL 4, 1939. Class 21.

368,336. INSULATING FIBER BOARD. ARMSTRONG CORK COMPANY, Lancaster, Pa.
Filed January 27, 1939. Serial No. 415,280. PUBLISHED MARCH 28, 1939. Class 12.

368,337. PLYWOOD. DOUGLAS FIR PLYWOOD ASSOCIATION, Tacoma, Wash.
Filed January 30, 1939. Serial No. 415,383. PUBLISHED MARCH 28, 1939. Class 12.

368,338. STOKERS. FLOYD D. YARICK, Detroit, Mich.
Filed January 30, 1939. Serial No. 415,432. PUBLISHED APRIL 4, 1939. Class 34.

368,339. HOSIERY. BERKSHIRE KNITTING MILLS, Wyomissing, Reading, Pa.
Filed January 31, 1939. Serial No. 415,440. PUBLISHED MARCH 28, 1939. Class 39.

368,340. VENETIAN BLINDS. THE SAM A. WINO COMPANY, Dallas, Tex.
Filed January 31, 1939. Serial No. 415,466. PUBLISHED APRIL 4, 1939. Class 32.

368,341. WOMEN'S, MISSES', AND GIRLS' DRESSES AND BLOUSES. A. DE PINNA CO., INC., New York, N. Y.
Filed February 1, 1939. Serial No. 415,471. PUBLISHED APRIL 4, 1939. Class 39.

368,342. WOMEN'S AND MISSES' COATS AND SUITS. I. GROSSMAN & SON, INC., New York, N. Y.
Filed February 1, 1939. Serial No. 415,476. PUBLISHED APRIL 4, 1939. Class 39.

368,343. CHOCOLATE FLAVORED SYRUP FOR DAIRY USE. Bosco COMPANY, New York, N. Y.
Filed February 3, 1939. Serial No. 415,540. PUBLISHED APRIL 4, 1939. Class 46.

368,344. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK, AND SIRUP AND EXTRACT FOR MAKING THE SAME. FOOTE & JENKS, INC., Jackson, Mich.
Filed February 3, 1939. Serial No. 415,543. PUBLISHED APRIL 4, 1939. Class 45.

368,345. COMPOUND FOR USE IN DRY CLEANING PURPOSES. SUDOX CHEMICAL COMPANY, INC., Louisville, Ky.
Filed February 3, 1939. Serial No. 415,562. PUBLISHED APRIL 4, 1939. Class 4.

368,346. PERIODICAL PUBLICATION. TRANSPORTATION GUIDES, INC., New York, N. Y.
Filed February 3, 1939. Serial No. 415,563. PUBLISHED APRIL 4, 1939. Class 38.

368,347. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. MAX EPSTEIN, doing business as Kolonade Beverage Co., Richmond Hill, N. Y.
Filed February 4, 1939. Serial No. 415,588. PUBLISHED APRIL 4, 1939. Class 45.

368,348. BAKERY PRODUCTS—NAMELY, BISCUIT. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed February 4, 1939. Serial No. 415,605. PUBLISHED APRIL 4, 1939. Class 46.

368,349. INSULATED WIRES AND CABLES. THE OKONITE COMPANY, Passaic, N. J.
Filed February 4, 1939. Serial No. 415,607. PUBLISHED APRIL 4, 1939. Class 21.

368,350. LEATHER SUBSTITUTES. PROSPECT MILLS CORP., Cambridge, Mass.
Filed February 4, 1939. Serial No. 415,610. PUBLISHED APRIL 4, 1939. Class 50.

368,351. COMPOSITION BOOKS, LOOSE LEAF FILLERS AND BINDERS. S. E. & M. VERNON, INC., New York, N. Y.
Filed February 4, 1939. Serial No. 415,615. PUBLISHED APRIL 4, 1939. Class 37.

368,352. TOWELS, TOWELING IN PIECE, CURTAINS, AND SCRIM CURTAINS. BOOTT MILLS, Lowell, Mass.
Filed February 6, 1939. Serial No. 415,630. PUBLISHED APRIL 4, 1939. Class 42.

368,353. RUM. DESTILERIA TROPICAL, Arecibo, P. R.
Filed February 6, 1939. Serial No. 415,638. PUBLISHED APRIL 4, 1939. Class 49.

368,354. FISHING TACKLE, PARTICULARLY TROUT FLIES. A. M. HOLTER HARDWARE CO., Helena, Mont.
Filed February 6, 1939. Serial No. 415,650. PUBLISHED APRIL 4, 1939. Class 22.

368,355. ICE CREAM AND SHERBET. THE LUCERNE CREAM AND BUTTER COMPANY, also doing business as Lucerne Cream and Butter Co., Vernon, Calif.
Filed February 6, 1939. Serial No. 415,657. PUBLISHED APRIL 4, 1939. Class 46.

368,356. BLANKETS MADE OF COTTON OR COTTON AND WOOL. BEACON MANUFACTURING COMPANY, Swannanoa, N. C.
Filed February 7, 1939. Serial No. 415,691. PUBLISHED APRIL 4, 1939. Class 42.

368,357. BLANKETS MADE OF COTTON OR COTTON AND WOOL. BEACON MANUFACTURING COMPANY, Swannanoa, N. C.
Filed February 7, 1939. Serial No. 415,695. PUBLISHED APRIL 4, 1939. Class 42.

368,358. BLANKETS MADE OF COTTON OR COTTON AND WOOL. BEACON MANUFACTURING COMPANY, Swannanoa, N. C.
Filed February 7, 1939. Serial No. 415,696. PUBLISHED APRIL 4, 1939. Class 42.

368,359. PERIODICAL. HAIRE PUBLISHING COMPANY, New York, N. Y.
Filed February 7, 1939. Serial No. 415,714. PUBLISHED APRIL 4, 1939. Class 38.

368,360. PERIODICALS. FRANK W. PENNELL, New York, N. Y.
Filed February 7, 1939. Serial No. 415,737. PUBLISHED APRIL 4, 1939. Class 38.

368,361. FISH BAIT. SHOE FORM CO., INC., Auburn, N. Y.
Filed February 7, 1939. Serial No. 415,743. PUBLISHED APRIL 4, 1939. Class 22.

368,362. FISH BAIT. SHOE FORM CO., INC., Auburn, N. Y.
Filed February 7, 1939. Serial No. 415,746. PUBLISHED APRIL 4, 1939. Class 22.

368,363. CANNED PEAS. THE MARKESAN CANNING CO., Markesan, Wis.
Filed February 8, 1939. Serial No. 415,785. PUBLISHED APRIL 4, 1939. Class 46.

368,364. CANNED PEAS. THE MARKESAN CANNING CO., Markesan, Wis.
Filed February 8, 1939. Serial No. 415,786. PUBLISHED APRIL 4, 1939. Class 46.

368,365. NONALCOHOLIC CARBONATED BEVERAGES AND SYRUPS FOR USE IN THE PREPARATION THEREOF, THE SAME BEING OF DIFFERENT FLAVORS. GROVER C. THOMSEN, doing business as The Glassite Company, Waco, Tex.
Filed February 8, 1939. Serial No. 415,807. PUBLISHED APRIL 4, 1939. Class 45.

368,366. MACARONI. E. L. KAFFER, doing business as Q Company, Joliet, Ill.
Filed February 9, 1939. Serial No. 415,845. PUBLISHED APRIL 4, 1939. Class 46.

368,367. LIME. ADHESIVE LIME LIMITED, Montreal, Quebec, Canada.
Filed February 10, 1939. Serial No. 415,869. PUBLISHED MARCH 28, 1939. Class 12.

368,368. REFRACTORY AND INSULATING CEMENT. NATIONAL ENGINEERING PRODUCTS, INC., Washington, D. C.
Filed February 10, 1939. Serial No. 415,910. PUBLISHED MARCH 28, 1939. Class 12.

368,369. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. SAFEWAY STORES, INC., Vernon and Oakland, Calif.
Filed February 10, 1939. Serial No. 415,915. PUBLISHED APRIL 4, 1939. Class 45.

368,370. ASBESTOS ROOF COATING, AND ASBESTOS PLASTIC CEMENT, BOTH USED AS WATERPROOFERS AND PRESERVERS FOR ROOFS OF COMPOSITION, PAPER, CONCRETE, TIN, AND IRON, BUT NOT INCLUDING WOOD OR SHINGLE. SOUTHWESTERN PETROLEUM COMPANY, INC., Fort Worth, Tex.
Filed February 10, 1939. Serial No. 415,921. PUBLISHED MARCH 28, 1939. Class 12.

368,371. LUBRICATING OIL. LUBRX PRODUCTS, INC., Boston, Mass.
Filed February 15, 1939. Serial No. 416,069. PUBLISHED MARCH 28, 1939. Class 15.

368,372. DIURETIC MEDICINAL PREPARATION. WESTWOOD PHARMACAL CORP., Buffalo, N. Y.
Filed February 16, 1939. Serial No. 416,127. PUBLISHED APRIL 4, 1939. Class 6.

368,373. WINDOW SHADES AND ROLLERS. THE WESTERN SHADE CLOTH CO., Chicago, Ill.
Filed February 20, 1939. Serial No. 416,274. PUBLISHED APRIL 4, 1939. Class 32.

368,374. WINDOW SHADES AND ROLLERS. THE WESTERN SHADE CLOTH CO., Chicago, Ill.
Filed February 20, 1939. Serial No. 416,277. PUBLISHED APRIL 4, 1939. Class 32.

368,375. WHISKY. DAILUAINE-TALISKER DISTILLERIES LIMITED, Carron, Scotland.
Filed February 21, 1939. Serial No. 416,285. PUBLISHED APRIL 4, 1939. Class 49.

368,376. GOLF BALLS. RUBBER SPECIALTIES COMPANY, INC., Plymouth Meeting, Pa.
Filed February 21, 1939. Serial No. 416,295. PUBLISHED APRIL 4, 1939. Class 22.

368,377. COFFEE. SANDY VALLEY GROCERY COMPANY, Ashland, Ky.
Filed February 21, 1939. Serial No. 416,298. PUBLISHED APRIL 4, 1939. Class 46.

368,378. FILTER MASS—NAMELY, A FILTERING PRODUCT MADE OF COTTON FIBRES AND WHICH SOMETIMES INCLUDES A PERCENTAGE OF ASBESTOS FIBRES, FOR FILTERING BEER, WINE, GELATINE, FRUIT JUICES, AND OTHER TYPES OF JUICES. NATIONAL FILTER CORPORATION, New York, N. Y.
Filed February 23, 1939. Serial No. 416,332. PUBLISHED APRIL 4, 1939. Class 31.

368,379. FISH BAIT. SHOE FORM CO., INC., Auburn, N. Y.
Filed February 23, 1939. Serial No. 416,344. PUBLISHED APRIL 4, 1939. Class 22.

368,380. MOUNTED SHADES, WINDOW SHADES, AND SHADE ROLLERS. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed February 24, 1939. Serial No. 416,371. PUBLISHED APRIL 4, 1939. Class 32.

368,381. VENETIAN BLINDS. H. B. DODGE AND COMPANY, Chicago, Ill.
Filed February 27, 1939. Serial No. 416,458. PUBLISHED APRIL 4, 1939. Class 32.

368,382. CHAIRS AND OTTOMANS. FLORAL CITY FURNITURE COMPANY, INC., doing business as La-Z-Boy Chair Company, Monroe, Mich.
Filed February 27, 1939. Serial No. 416,460. PUBLISHED APRIL 4, 1939. Class 32.

368,383. BRANDY. ITALIAN SWISS COLONY, San Francisco, Calif.
Filed February 27, 1939. Serial No. 416,464. PUBLISHED APRIL 4, 1939. Class 49.

368,384. INSECTICIDES. THE SELIG COMPANY, INC., Atlanta, Ga., assignor to The Fyr-Fyter Company, Dayton, Ohio.
Filed November 1, 1938. Serial No. 412,269. PUBLISHED DECEMBER 27, 1938. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

368,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES JOHNSON'S SONS, Philadelphia, Pa
Filed Nov. 24, 1937. Serial No. 400,111.

MT. PLEASANT

For Canned Fruits, Canned Vegetables, Canned Soups, Canned Fish, Canned Fruit Cocktail, Canned Fruit Salad, Canned Beans with Pork, Canned Brown Bread, Grapefruit Juice for Food Purposes, Tomato Catsup, Chili Sauce, Cranberry Sauce, Canned Evaporated Milk, Jellies, Fruit Preserves, Coffee, Butter, Salt, Peanut Butter, Maple Syrup, Vinegar, Honey, Apple Sauce, and Preserved Figs.
Claims use since Apr. 20, 1904.

368,386. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. R. WILFLEY AND SONS, INC., Denver, Colo. Filed Jan. 8, 1938. Serial No. 401,711.

WILFLEY

The drawing is lined for red.
For Centrifugal Pumps.
Claims use since 1920.

368,387. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. R. WILFLEY AND SONS, INC., Denver, Colo. Filed Jan. 8, 1938. Serial No. 401,712.

WILFLEY

The drawing is lined for red.
For Centrifugal Pumps.
Claims use since 1920.

368,388. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) VENETIANETTE, INC., Dallas, Tex. Filed Mar. 5, 1938. Serial No. 403,744.

"Venetianette"

For Venetian Blinds for Motor Vehicles.
Claims use since Mar. 1, 1937.

368,389. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FRANK S. REED, Cincinnati, Ohio. Filed Apr. 20, 1938. Serial No. 405,524.

KANT-MIS

For Closet Flush Valve Balls.
Claims use since Feb. 1, 1938.

368,390. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORONA FOOTHILL LEMON COMPANY, Corona, Calif. Filed June 6, 1938. Serial No. 407,132.

CORONA BEAUTY

For Fresh Citrus Fruit.
Claims use since 1904.

368,391. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MYRON WINTERS, New York, N. Y. Filed June 15, 1938. Serial No. 407,515.

Drayndri

For a Mixture of Chemical Detergents for Cleaning Glasses and Dishes.
Claims use since Apr. 13, 1938.

368,392. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KING KONE CORPORATION, New York, N. Y. Filed Aug. 31, 1938. Serial No. 410,141.

OLD LONDON

For Crackers.
Claims use since February, 1938.

368,393. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) WILLIAM A. BROWN, Philadelphia, Pa. Filed Nov. 18, 1938. Serial No. 412,898.

CONDITIONAIRLITE

For Air Conditioning Devices in the Form of a Support Carrying Illuminating Means and Vacuum Creating Means to Cause a Flow of Air.
Claims use since July 13, 1933.

368,394. (CLASS 17. TOBACCO PRODUCTS.) JOHN SINCLAIR LIMITED, Newcastle-on-Tyne, England. Filed Jan. 18, 1939. Serial No. 414,966.

BOARDMAN'S

For Smoking Tobacco and Cigarettes.
Claims use since Jan. 1, 1910.

368,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER & HOLLIS, INC., Boston, Mass. Filed Jan. 24, 1939. Serial No. 415,174.

Glen Cove

For Chocolates.
Claims use since April, 1938.

368,396. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE NUTEX COMPANY, Philadelphia, Pa. Filed Mar. 6, 1939. Serial No. 416,739.

STA-ON

For Prophylactic Skin Membrane Articles for the Prevention of Contagious Diseases.
Claims use since Apr. 15, 1935.

368,397. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM WHITMAN COMPANY, INC., Boston, Mass., and New York, N. Y. Filed Mar. 15, 1939. Serial No. 417,108.

WHITMAN GABARDINE

For Cotton, Rayon, and Woolen Piece Goods.
Claims use since December, 1928.

368,398. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELBERT H. PRATT, doing business as Accessories Manufacturing Company, Chicago, Ill. Filed Apr. 17, 1939. Serial No. 418,360.

KWIK KLIP

For Wire Clips Used on Electric Fences.
Claims use since Apr. 8, 1938.

368,399. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) LEROUX AND COMPANY, INC., Philadelphia, Pa. Filed May 9, 1939. Serial No. 419,229.

Leroux

For Anisette, Cocktail Bitters, Brandy, Gin, and Liqueurs.
Claims use since Jan. 2, 1938.

368,400. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) LEROUX AND COMPANY, INC., Philadelphia, Pa. Filed May 9, 1939. Serial No. 419,230.

LEROUX & CO., INC. PHILADELPHIA, PA.

For Brandy, Rum, Anisette, Cocktail Bitters, and Liqueurs.
Claims use since Jan. 2, 1936.

TRADE-MARK REGISTRATIONS RENEWED

16,486. **RED HEART.** RUM. Registered April 9, 1889. HENRY WHITE & Co. Re-renewed April 9, 1939, to White Keeling (Rum) Ltd., London, England, a limited liability company of Great Britain, successor.

125,035. **COLUMBUS PORTRAIT.** OIL-CLOTH. Registered April 8, 1919. THE COLUMBUS-UNION OIL CLOTH Co. Renewed April 8, 1939, to Columbus Coated Fabrics Corporation, Columbus, Ohio, a corporation of Ohio, by change of name.

126,286. **RAMROD.** CANNED PEACHES, CANNED PLUMS, CANNED APRICOTS, AND CANNED PINEAPPLES. Registered August 19, 1919. THE G. H. HAMMOND COMPANY. Renewed August 19, 1939, to Libby McNeill & Libby, Chicago, Ill., a corporation of Maine, assignee.

126,308. **KIRTLE AND DESIGN.** PIECE GOODS—VIZ., A FABRIC MADE WITH A COTTON WARP AND A FILLING OF MOHAIR OR WOOL OR ALPACA, SINGLY OR COMBINED. Registered August 19, 1919. LESHER, WHITMAN & Co., INC., New York, N. Y. Renewed August 19, 1939, to Goodall Worsted Co., Sanford, Maine, a corporation of Maine, successor.

126,474. **MAGNOLIA.** CREAMERY-BUTTER. Registered August 26, 1919. RUTHERFORD CO. CREAMERY ASSN. Renewed August 26, 1939, to Rutherford County Cooperative Creamery, Inc., Murfreesboro, Tenn., a corporation of Tennessee, successor.

126,623. **VESUVIUS.** CERTAIN NAMED HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS. Registered September 30, 1919. AMERICAN STOVE COMPANY, St. Louis, Mo., a corporation of New Jersey. Renewed September 30, 1939.

126,829. **PALMDAYL.** GIRLS' DRESSES. Registered October 7, 1919. COHN, GOLDWATER COMPANY. Renewed October 7, 1939, to Cohn-Goldwater Mfg. Co., Los Angeles, Calif., a corporation of California, successor.

126,838. **PORTRAIT OF A NURSE.** COMPLEXION-POWDER, COMPLEXION-CREAM, TALCUM POWDER, TOILET WATER, AND ALMOND-CREAM. Registered October 7, 1919. THE DE PREE CHEMICAL COMPANY. Renewed October 7, 1939, to The De Pree Company, Holland, Mich., a corporation of Michigan, by change of name.

126,979. **AMERICAN.** CERTAIN NAMED MACHINES, MACHINERY, AND TOOLS, AND PARTS THEREOF. Registered October 21, 1919. AMERICAN BROACH & MACHINE Co., Ann Arbor, Mich., a corporation of Michigan. Renewed October 21, 1939.

126,982. **MERITORIA.** FRESH CITRUS FRUITS—NAMELY, ORANGES. Registered October 21, 1919. ANAHEIM ORANGE & LEMON ASSOCIATION. Renewed October 21, 1939, to Anaheim Valencia Orange Association, Anaheim, Calif., a corporation of California, by change of name.

126,983. **SONIA.** FRESH CITRUS FRUITS—NAMELY, ORANGES. Registered October 21, 1919. ANAHEIM ORANGE & LEMON ASSOCIATION. Renewed October 21, 1939, to Anaheim Valencia Orange Association, Anaheim, Calif., a corporation of California, by change of name.

127,019. **SPRAYOLINE.** MEDICINE FOR CERTAIN NAMED DISEASES. Registered October 21, 1919. WILLIAM S. CURTIN, Lynn, Mass. Renewed October 21, 1939.

127,196. **MISS MUFFET.** WHEAT-FLOUR. Registered October 21, 1919. THE LOUDONVILLE MILL & GRAIN Co. Renewed October 21, 1939, to The Loudonville Milling Company, Loudonville, Ohio, a corporation of Ohio, assignee.

127,262. **DELICIA.** FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPE-FRUIT. Registered November 4, 1919. ANAHEIM ORANGE & LEMON ASSOCIATION. Renewed November 4, 1939, to Anaheim Valencia Orange Association, Anaheim, Calif., a corporation of California, by change of name.

127,291. **ROBENA.** BISCUIT. Registered November 4, 1919. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed November 4, 1939, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

127,337. **BTC.** CERTAIN NAMED VEHICLE PARTS. Registered November 11, 1919. THE BREWER-TITCHENER CORPORATION, Cortland, N. Y., a corporation of New York. Renewed November 11, 1939.

127,451. **MORELAND.** MOTOR-TRUCKS AND AUTOMOBILE-TRAILERS. Registered November 11, 1919. MORELAND MOTOR TRUCK COMPANY, Los Angeles, Calif., a corporation of California. Renewed November 11, 1939.

127,460. **NICK-A-JACK.** HOSIERY. Registered November 11, 1919. NICK-A-JACK HOSIERY MILLS. Renewed November 11, 1939, to Margate Hosiery Mills, Inc., Chattanooga, Tenn., a corporation of Tennessee, successor.

127,553. **BERNARD.** PLIERS, NIPPERS, WIRE-CUTTERS, PUNCHES, ETC. Registered November 11, 1919. THE WILLIAM SCHOLLHORN COMPANY, New Haven, Conn., a corporation of Connecticut. Renewed November 11, 1939.

LABELS

REGISTERED JUNE 13, 1939

53,125.—*Title:* RELAXATION A SAFE CORN AND CALLUS REMOVER. For a Pharmaceutical Preparation for the Removal of Corns and Calluses. ALLEN CHEMICAL CO. INC., New York, N. Y. Published April 15, 1939.

53,126.—*Title:* SINCERITY. For Sugar Corn. BANNER WHOLESALE GROCERS, INC., Chicago, Ill. Published March 1, 1939.

53,127.—*Title:* BEECH-NUT TOMATO JUICE. For Tomato Juice. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 9, 1939.

53,128.—*Title:* VALLEY FARMS BUTTER. For Creamery Butter. BOWSER SALES & TRADING CORPORATION, INC., doing business as Valley Creamery Company, Sistersville and New Martinsville, W. Va. Published March 1, 1939.

53,129.—*Title:* LINDY JULEP. For a Nonalcoholic Beverage. BUNNELL & CAMPBELL, Detroit Lakes, Minn. Published March 31, 1939.

53,130.—*Title:* OFFICIAL NEW YORK WORLD'S FAIR SOUVENIR. For Knives. CAMILLUS CUTLERY CO., Camillus and New York, N. Y. Published May 16, 1939.

53,131.—*Title:* HOLT LIN-FLAKE. For Soap Flakes. KENNETH B. CANNON, doing business as Vegetable Soap Products Co., Los Angeles, Calif. Published March 3, 1939.

53,132.—*Title:* BLUE COAL. For Water Heaters. THE DELAWARE, LACKAWANNA & WESTERN COAL COMPANY, sometimes doing business as D. L. & W. Coal Co., New York, N. Y. Published April 1, 1939.

53,133.—*Title:* JOHN H. ERICSON, VIOLIN MAKER. For Hand Made Violins, Violas, and Cellos. JOHN HJALMAR ERICSON, Hammond, Ind. Published January 3, 1939.

53,134.—*Title:* CHERRY. For Pies. FIBREWARE COMPANY, Franklin, Ohio. Published December 1, 1938.

53,135.—*Title:* BANANA CREAM. For Pies. FIBREWARE COMPANY, Franklin, Ohio. Published January 1, 1939.

53,136.—*Title:* ONE-TWO BUTTON YOUR SHOE. For a Game. SAMUEL FINKELSTEIN, doing business as The Master Toy Co., New York, N. Y. Published April 14, 1939.

53,137.—*Title:* THIS BREAD CONTAINS VITAMINS A B, C D E G MADE FROM FRANTZ 101. For Bread. CHARTON C. FRANTZ, doing business as The Frantz Company, Pittsburgh, Pa. Published January 23, 1939.

53,138.—*Title:* GERST PILSNER BEER. For Pilsner Beer. WILLIAM GERST BREWING COMPANY, INC., Nashville, Tenn. Published April 25, 1939.

53,139.—*Title:* DANTE ITALO-AMERICAN CIGARETTES. For Cigarettes. CESARE GIALANELLA, Bloomfield, N. J. Published April 6, 1939.

53,140.—*Title:* HYDE PARK TRUE LAGER BEER. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published May 2, 1939.

53,141.—*Title:* HYGEIA FANCY BUTTER. For Butter. HYGEIA MILK PRODUCTS COMPANY, Harlingen, Tex. Published May 11, 1939.

53,142.—*Title:* "TOMORROW'S HEIRLOOM—'THE THEME CHARM'". For Charms. WALTER LAMPL, doing business as Lampl, New York, N. Y. Published May 3, 1939.

53,143.—*Title:* LUXURY. For Extra Dry Pilsner Beer. LOS ANGELES BREWING CO., Los Angeles, Calif. Published April 22, 1939.

53,144.—*Title:* THE CAMPUS. For Candy. ALLEN MARKS, doing business as Campus Candy Co., Los Angeles, Calif. Published May 12, 1939.

53,145.—*Title:* CHAMPAGNE GRAPE SALTS. For an Effervescent Fruit Laxative. ARTHUR C. MESTRAND, Asnieres, France. Published March 15, 1938.

53,146.—*Title:* FOOT WEAR. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published March 15, 1939.

53,147.—*Title:* VALU-CRAFT. For Footwear. FRANK C. MEYER CO. INC., New York, N. Y. Published August 17, 1938.

53,148.—*Title:* LUCKY MO-JO BRAND CANDLES. For Candles. MORTON G. NEUMANN, doing business as Famous Products Company, Chicago, Ill. Published February 2, 1939.

53,149.—*Title:* THE DOUBLE Q. For Composition Books. OSBORN PAPER COMPANY, Marion, Ind. Published January 1, 1939.

53,150.—*Title:* ROYAL. For Composition Books. OSBORN PAPER COMPANY, Marion, Ind. Published January 1, 1939.

53,151.—*Title:* HUCK FINN. For Apple Jack Brandy. JOSEPH H. REINFELD, INC., Newark, N. J. Published May 3, 1939.

53,152.—*Title:* LA MORRA IVORY TIP CIGARS. For Cigars. ABE SCHLACHET AND ANTHONY GRECO, Cleveland, Ohio. Published March 31, 1939.

53,153.—*Title:* PATRONS' CHOICE. For Peeled Nectarines. SELECTED FOOD SPECIALTIES CO., San Francisco, Calif. Published January 15, 1939.

PRINTS

REGISTERED JUNE 13, 1939

17,440.—*Title:* VEGETABLE GARDEN IDEAS WITH FERRY'S SEEDS. For Seeds. FERRY-MORSE SEED CO., Detroit, Mich. Published April 7, 1939.

17,441.—*Title:* US KIDS LOVE OUR FAVORITE ICE CREAM ON-A-STICK. For Ice Cream Confections on a Stick Coated with Chocolate. JOE LOWE CORPORATION, New York, N. Y. Published April 1, 1939.

17,442.—*Title:* NEW BIG CAKESICLE. For Combination Ice Cream and Cake Confection on a Stick. JOE LOWE CORPORATION, New York, N. Y. Published December 31, 1938.

17,443.—*Title:* GEE GANG! TRY POPSICLE JR. A REAL GENUINE POPSICLE 3¢. For Frozen Confections on a Stick. JOE LOWE CORPORATION, New York, N. Y. Published May 1, 1939.

17,444.—*Title:* BIG DOUBLE TREAT, BUCK ROGERS ON THE RADIO, FINE OUTSIDE—DANDY INSIDE, 5¢ CREAMSICLE, DELICIOUSLY COATED ICE CREAM. For Frozen Confections on a Stick Made of Ice Cream Deliciously Coated. JOE LOWE CORPORATION, New York, N. Y. Published March 11, 1939.

17,445.—*Title:* POPSICLE PETE THE SUMMER SANTA CLAUSE. POPSICLE—FUDGICLE CREAMSICLE. For Frozen Confections on a Stick. JOE LOWE CORPORATION, New York, N. Y. Published March 20, 1939.

17,446.—*Title:* POPSICLE FUDGICLE CREAMSICLE SAVE BAGS FOR FREE GIFTS, GENUINE JO-LO FROZEN CONFECTIONS ON-A-STICK. For Frozen Confections on a Stick. JOE LOWE CORPORATION, New York, N. Y. Published March 30, 1939.

17,447.—*Title:* BUCK ROGERS ON THE AIR THIS SUMMER! FOR CREAMSICLE GENUINE JO-LO FROZEN CONFECTIONS ON A STICK. For Frozen Confections on a Stick. JOE LOWE CORPORATION, New York, N. Y. Published March 22, 1939.

17,448.—*Title:* MR. HAM GOES TO TOWN. For Meat. JOHN MORRELL & CO., Ottumwa, Iowa. Published February 9, 1939.

17,449.—*Title:* CAMEL E-26. For Cigarettes. THE R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 11, 1939.

17,450.—*Title:* HORNCRAFT. For Ashtrays, Horns, Pendant Flower Vases and Other Products Made of Animal Horns. AL ROSENBERG, doing business as Mylov Novelty Manufacturing Company, Long Island City, N. Y. Published February 10, 1939.

17,451.—*Title:* BACON AND—MOST ANYTHING FOR DINNER TODAY. For Bacon. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,452.—*Title:* GENTLEMEN PREFER—BEEF POT PIE. For Beef. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,453.—*Title:* MM! MM! MAMMY-FRIED CHICKEN FOR DINNER TODAY. For Chicken. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,454.—*Title:* TAK-IT. For Boxes, Cartons and Folders. UNITED PAPERBOARD COMPANY, INC., New York, Lockport, and Thomson Victory Mills, N. Y., Benton Falls, Maine, and Urbana, Ohio. Published April 6, 1939.

17,455.—*Title:* McKESSON'S MEN'S SET. For Men's Gift Package Containing Cosmetics for Men. WILLIAM J. WARDALL, trustee of the estate of McKesson & Robbins, Incorporated, debtor, New York, N. Y. Published May 18, 1939.

REISSUES

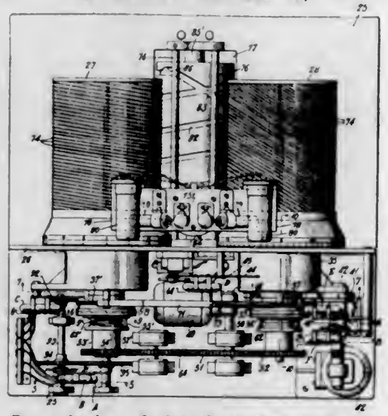
JUNE 13, 1939

21,111

PHONOGRAPHIC ANNOUNCING MECHANISM OR THE LIKE

John L. Franklin, Atlanta, Ga.

Original No. 2,011,216, dated August 13, 1935, Serial No. 713,417, February 28, 1934. Application for reissue April 27, 1939, Serial No. 270,385
32 Claims. (Cl. 179—6)



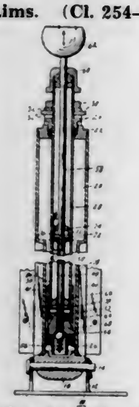
1. In a device of the class described, in combination: a revoluble support; a plurality of sound records extending spirally at least partially around said support to be brought successively into position to be reproduced; means to reproduce sound from said records; and automatically actuated means to change the record in position to be reproduced, by circumferential movement of said support.

21,112

BUMPER JACK

Leonard D. Nilson, Wayzata, Minn., assignor to Vulcan Manufacturing Co., Inc., St. Paul, Minn., a corporation of Minnesota

Original No. 2,064,445, dated December 15, 1936, Serial No. 39,929, September 10, 1935. Application for reissue March 12, 1938, Serial No. 195,568
10 Claims. (Cl. 254—93)



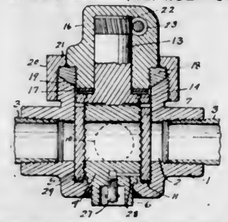
9. In a jack of the character described, a vertical cylinder, a lifting member slidable longitudinally relative thereto, hydraulic lifting means within said cylinder and projecting thereabove, an operative connection between the projecting part thereof and said lifting member and pump means for lifting and lowering said lifting means and having a piston rod projecting from said projecting part, said piston rod being movable one way for lifting operations and movable a different way for lowering operations at one limit only of its movement the first way.

21,113

VALVE

Charles W. Sprouli, Houston, Tex.

Original No. 2,048,975, dated July 28, 1936, Serial No. 66,010, February 27, 1936. Reissue No. 20,755, dated June 7, 1938, Serial No. 117,466, December 15, 1936. This application for reissue July 21, 1938, Serial No. 220,598
6 Claims. (Cl. 251—96)



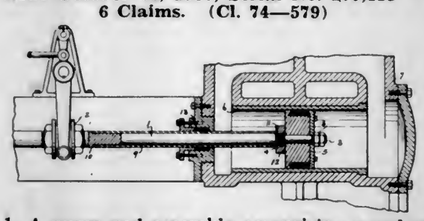
1. A valve comprising a casing having a flow conduit therethrough, a core fixed in the casing having a conduit therethrough, said conduits being in alignment, an expansible sleeve on the core having openings, means for turning the sleeve to move the openings into and out of registration with the conduits and co-acting means on the core and sleeve effective to expand the sleeve, when it reaches the limit of its movement in either direction.

21,114

PUMP ROD ASSEMBLY

Charles E. Suhm and Leo S. Ankenbruck, Houston, Tex., assignors of one-fourth to Antoine Cossette and one-fourth to Paul J. Hesse, both of Harris County, Tex.

Original No. 2,042,078, dated May 26, 1936, Serial No. 736,164, July 20, 1934. Application for reissue October 22, 1937, Serial No. 170,418
6 Claims. (Cl. 74—579)



1. A pump rod assembly comprising a rod one end of which is reduced to be fitted through a piston, said rod having an abutment formed by the reduction of said end, a nut screwed onto said rod, one end of which has an undercut groove and whose other end is approximately flush with

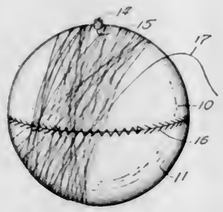
said abutment so as to bear against the piston, a sleeve on the rod of less diameter than the nut and one end of which is tapered to fit into said groove, an annular shoulder on the rod adjacent the other end of the sleeve, said shoulder and the adjacent end of the sleeve being formed one with an undercut groove and the other being reduced in diameter to fit into said groove.

21,115
PLAYING BALL

Henry T. Winterbauer, Chicago, Ill., assignor, by direct and mesne assignments, to John T. Clark Company, Chicago, Ill., a corporation of Illinois

Original No. 2,061,604, dated November 24, 1936, Serial No. 751,619, November 5, 1934. Application for reissue February 26, 1938, Serial No. 192,894

24 Claims. (Cl. 273—65)



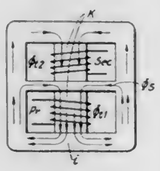
1. The method of making a thin walled inflatable playing ball, comprising: making a hollow inner member of substantially non-stretchable flexible sheet material; expanding said member by a relatively low internal pressure; winding an elongated reinforcement around said member substantially on great circles to substantially cover the same; and curing a rubber cover over said member and reinforcement.

21,116
TRANSFORMER

Emil Wirz, Biel, Switzerland

Original No. 2,047,845, dated July 14, 1936, Serial No. 574,121, November 10, 1931. Application for reissue June 28, 1938, Serial No. 216,352. In Switzerland March 17, 1931

7 Claims. (Cl. 171—119)



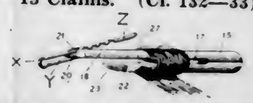
6. A transformer having an iron body of the shell type and consisting of assembled laminations providing yokes and an interior core, windings on said core, and leakage control bridging means associated with said iron body and consisting of additional laminations superposed upon the faces of the core laminations and having integral bridging members extending thereacross transversely of the core at an intermediate point.

21,117
HAIR CURLER

Aniceto R. Visitacion, New York, N. Y.

Original No. 2,132,500, dated October 11, 1938, Serial No. 144,587, May 25, 1937. Application for reissue January 7, 1939, Serial No. 249,819

15 Claims. (Cl. 132—33)



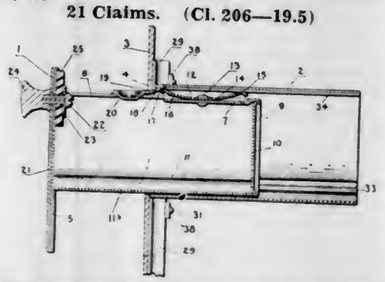
1. A hair curling appliance comprising a hollow cylindrical mandrel composed of two members of unequal length partially separated by longitudinal slots adapted to receive the ends of a lock of hair, means at the outer end of the longer member forming a mounting for a hair pin, and a spring having one end positioned in the shorter member and its other end located within the mandrel, said spring passing obliquely through the center of the mandrel from one of the members thereof to the other.

21,118
ASH RECEIVER

John Visser, Grand Rapids, Mich., assignor, by mesne assignments, to F. L. Jacobs Company, Detroit, Mich., a corporation of Michigan

Original No. 2,097,480, dated November 2, 1937, Serial No. 55,568, December 21, 1935. Application for reissue September 21, 1938, Serial No. 231,000

21 Claims. (Cl. 206—19.5)



1. In a concealed type ash receiver of the sliding drawer type the combination of a supporting panel having an opening therein, one side of said panel having a finished decorative surface, a housing also having an opening therein, means for securing said housing to said supporting panel on the undecorated side in such position that a substantial portion of the opening in said housing will lie within the confines of the opening in said supporting panel, a receptacle adapted for sliding movement within the opening in said housing, said receptacle having a top opening for admission of ashes or the like, a semi-elliptical spring secured intermediate its end to said receptacle, said spring having end portions extending outwardly in opposite directions from said place of securement and formed to contact at spaced locations against an inner surface of said housing for yieldingly pressing said receptacle against said housing, stop means on said housing for engagement with one outwardly extending portion of said spring when said receptacle is moved to expose said top opening forwardly of said supporting panel, actuating means connected with the last said end portion of said spring and extending forwardly of said supporting panel whereby said end portion may be manually actuated to release it from said stop means to permit said receptacle to be entirely removed from said

housing by further forward sliding movement during all of which the other end portion of said spring is resiliently pressing said receptacle against said housing.

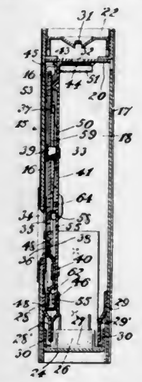
21,119
INDICATOR CONTAINER

David H. Zell, Brooklyn, N. Y.

Original No. 2,105,065, dated January 11, 1938, Serial No. 699,685, November 25, 1933. Application for reissue March 10, 1938, Serial No. 195,198

8 Claims. (Cl. 235—100)

1. In a coin bank which includes side walls and edge walls, one of the side walls containing a window and one of the edge walls containing a coin slot, a rigid supplementary end edge wall disposed inwardly of the coin slot edge wall and having a coin slot aligned with the coin slot of that wall, framing detachably fastened to said supplementary wall including a sheet disposed inwardly from and parallel to said window containing side wall and forming therewith a shallow chamber separated by the sheet from the hollow interior into which coins may be passed through said slots, a pair of cooperating disks in said chamber revoluble on parallel transverse axes carried by said framing and having dial faces for exhibit behind said window, a swingable member in the hollow interior adapted to be actuated by a coin prossed through said slots, extending into said chamber through a transverse slot in said sheet and pivotally mounted on said sheet in said chamber, and transmission mechanism within said chamber mounted on said sheet for operation by the actuation of said swingable member and



having connection with one of said disks for imparting driving movement thereto, all of said working parts being removable as an entity arrangement with the detachable framing by which they are solely supported.

PLANT PATENTS

GRANTED JUNE 13, 1939

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

330
ROSE

Karel Riesselmann, North Wales, Pa., assignor to The Florex Gardens, North Wales, Pa., an incorporated company of Pennsylvania

Application November 23, 1938, Serial No. 242,111

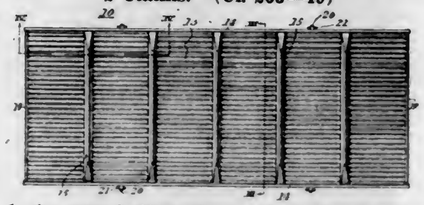
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose similar to Better Times in growth and form but characterized particularly in its blossoms of Rose Color to Rose Red, and its excellent lasting quality as a cut flower.

PATENTS

GRANTED JUNE 13, 1939

2,161,779
ANNEALING COVER OR THE LIKE
George M. Croft, Vandergrift, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application September 28, 1938, Serial No. 232,118
2 Claims. (Cl. 263—49)



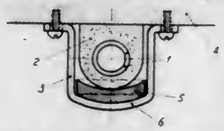
1. An open-bottomed cover including a top, and side and end walls composed of metal plate, said top comprising a plurality of curved panels disposed in spaced relation along the length of the cover so as to be convex upwardly, and stiffening ribs between said panels, said ribs being trough-shaped in section, disposed with their edges downwardly and extending between the upper edges of said side walls, the edges of said panels being welded to the edges of said ribs.

2,161,780
BUTTON
Adolf Amrein, Basel, Switzerland, assignor to the firm of Lutto S. A., Basel, Switzerland
Application November 8, 1937, Serial No. 173,511
In Switzerland November 12, 1936
1 Claim. (Cl. 24—101)



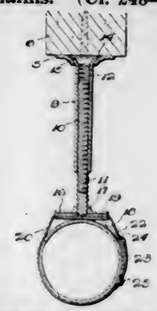
A button, comprising a front plate, a narrow shank rearwardly extending from said front plate, and a back plate substantially parallel to said front plate on said shank, said back plate having arcuate form substantially resembling a horse shoe, said shank engaging said back plate at an intermediate point adjacent to the concave edge of said arcuate back plate.

2,161,781
ELECTRIC HEATING PLATE
Etienne Challet, Paris, France
Application October 28, 1937, Serial No. 171,575
In Switzerland January 13, 1937
4 Claims. (Cl. 219—37)



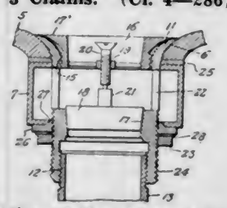
1. An electric heating plate comprising a supporting plate, an insulating unit applied to said supporting plate, a heating element housed in the insulating unit, a pressing pad of a plurality of narrow mica leaves applied against the insulating unit, said mica leaves being in cambered position and thus tending to reassume a flat position and to act as a spring so as to hold the insulating unit against the supporting plate, and a concave cap covering said insulating unit and pressing pad.

2,161,782
PIPE HANGER
David B. Flower, Philadelphia, Pa.
Application October 21, 1938, Serial No. 236,310
4 Claims. (Cl. 248—59)



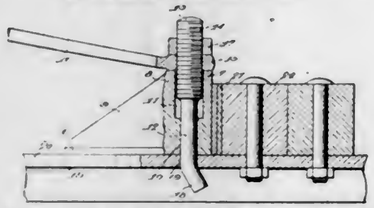
1. A pipe hanger comprising an attaching bracket, a suspended supporting member having swiveled connection at its upper end with said bracket, a head attached to the lower end of said supporting member having a transverse slot therethrough, a flexible clamping band adapted to pass through the slot of said head, a tongue at one end of said band adapted to pass through a slot in the other end thereof to hold the band around a pipe, and a keeper to receive the end of said tongue.

2,161,783
TWO-WAY TEST AND WASTE PLUG
John (Jack) Huber, Cincinnati, Ohio
Application May 12, 1938, Serial No. 207,624
3 Claims. (Cl. 4—286)



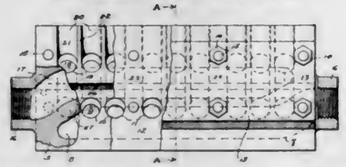
1. In a device of the character described, and in combination, a toilet fixture of the type embodying a drain opening, a trap, and a connection between the trap and drain opening, said connection consisting of a casing having a flared end fitting conformably within the drain opening of the tub and a second end adapted to be connected with the trap, a nipple connecting the second end of the casing with the trap, said casing adjacent the flared end thereof being provided with internal threads, and below said threads with an internal plug seat, a strainer provided with threads mating with the threads within said casing for securing said strainer within the flared end of the casing, and a plug adapted to engage said seat for use as a test plug, and also adapted to conformably seat within said strainer to serve as a waste plug.

2,161,784
DECK LAYING TOOL
James I. Kushima, Ewa, Territory of Hawaii
Application September 7, 1938, Serial No. 228,833
3 Claims. (Cl. 254—11)



1. A wedge backing block for laying decking strips comprising a block having a horizontal base and vertical face, said vertical face having a longitudinal bore extending through the base of said block, an attaching bolt slidably mounted in the bore of said face having its lower end projecting below said base and bent to form an angular projection adapted to releasably engage in a bolt hole of the decking support, a handle having a head threadedly engaged with the upper end of said bolt for adjusting said bolt vertically and a nut threaded on the upper end of said bolt above the head of the handle for securing said bolt in its adjusted position.

2,161,785
ATOMIZING BURNER FOR CRUDE PETROLEUM
Salvador Herrejón López, Mexico, D. F., Mexico
Application July 19, 1938, Serial No. 220,065
In Mexico September 29, 1937
11 Claims. (Cl. 299—141)



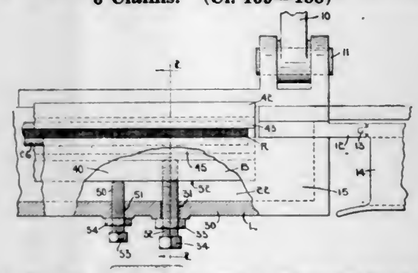
1. A burner of the character described comprising an elongated base having a pair of conduits leading longitudinally therethrough in substantial parallelism, one for fuel oil and the other for steam, a cap plate and a division plate, each substantially co-extensive with the base, means for binding the division plate and cap upon the base with the plate between the cap and base, the upper face of the base being provided with a longitudinally extending row of steam nozzle forming channels the tops of which are closed by said division plate and which channels extend laterally to a side of the bases, there being steam ports leading from said channels to the steam conduit, said cap likewise having a series of laterally extending oil nozzle forming channels formed in its under face, the bottoms of which are closed by the division plate, there being an individual oil port leading from the oil conduit through the division plate of each of said oil nozzle channels, said oil and steam conduits lying close enough to each other to effect a pre-heating of the oil by the steam in the steam conduit.

2,161,786
PHOTOELECTRIC CELLS OF THE LAYER TYPE AND METHOD OF PRODUCING THE SAME
Ernst Presser, Berlin-Dahlem, Germany
Application April 2, 1937, Serial No. 134,685
In Germany April 8, 1936
3 Claims. (Cl. 136—89)



1. The method of producing photoelectric cells of the layer type which consists in providing the translucent conductive covering layer with reinforcing ribs of conducting material in contact with said covering layer, covering the said covering layer and reinforcing ribs with a thin translucent layer of varnish, and spraying upon those parts of said varnish layer which cover the said reinforcing ribs, conducting material under such conditions that the varnish layer is pierced by the sprayed material.

2,161,787
BACKSTAY FOR LOOM REEDS
William M. Wattie, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 18, 1938, Serial No. 202,695
6 Claims. (Cl. 139—188)

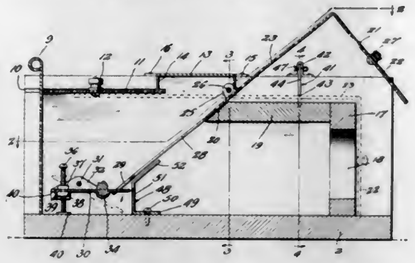


1. In a loom, a lay having a front wall and a longitudinal recess behind the wall, a backstay located in the recess, a reed held by the backstay, means extending through the front wall and threaded into the backstay to draw the same forwardly, other means threaded through the front wall of the lay end engaging the backstay to limit forward motion of the latter, and a bottom rail for the reed below a portion of the backstay, the first named means being of sufficient length to be partially unthreaded from the backstay and permit the latter to move far enough to the rear to allow the reed rail to be raised above said portion of the backstay.

2,161,788
PHOTOGRAPHIC ANTIHALATION LAYER
Gustav Wilmanns, Wolfen, Bitterfeld, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application November 29, 1937, Serial No. 177,068. In Germany September 30, 1937
5 Claims. (Cl. 95—8)

1. A photographic material comprising a support, a light-sensitive emulsion layer, and an antihalation layer consisting of a resin soluble in alkalies in which the acid groups are in the form of anhydride groups, and an antihalation dyestuff.

2,161,789
ANIMAL TRAP
Grover L. Wingfield, Sandstone, W. Va.
Application June 26, 1937, Serial No. 150,639
6 Claims. (Cl. 43—61)



1. In an animal trap, a casing having a bottom wall and side walls, said side walls having grooves, an end wall adapted for closing the casing at one end and being slidable in certain of said grooves, a top plate carried by the side walls and slidable in certain other of said grooves, said end wall being adapted to retain said top plate in position, a top center section carried by the casing on said side walls, an entrance door carried by the casing, a top wall portion carried by the entrance door, said entrance door having a circular opening, a trap door, means swingingly connecting the trap door with the casing and between the walls thereof, said trap door being adapted to overlie the top wall section and the entrance door in closed position, said trap door having an arm terminating in a detent, a guard plate carried by the casing and limiting movement of the arm, a trigger plate carried by the casing and having a trigger engageable with the detent for retaining the trap door in a raised set position, and means carried by the trigger plate for adjusting the responsiveness of the trigger plate to depressive effort, said trigger plate being adapted to be depressed for releasing the detent from the trigger and permitting the trap door to swing to closed position whereby an animal depressing the trigger plate will be confined within the trap, said first mentioned end wall being removable for permitting access to the interior of the trap.

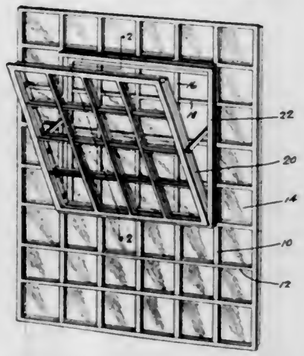
2,161,790
ELECTRODE FOR VACUUM TUBES
Jean Baptiste Joseph Marcel Abadie, Paris, France, assignor of one-half to Lumineles (Societe a responsabilite limitee), Paris, France, a corporation of France
Application August 17, 1934, Serial No. 740,301
In France August 26, 1933
10 Claims. (Cl. 176—126)



1. The process of manufacture of electrodes of high electron emissive power which comprises profoundly oxidizing at least a portion of a metal support, covering said oxidized portion with a layer of material selected from the group consisting of oxides of the alkali and alkaline earth metals and salts of the alkali and alkaline earth metals which yield oxides on heating, and powder of the material of the metal support, agglomerating said layer by fusing it and maintaining it in fused condition until it has profoundly penetrated the pores of the oxidized portion of said metal support, then placing the product in a reducing atmosphere and then heating it to the temperature at which the oxidized metal support and the said agglomerated material will reduce to metallic condition and a profoundly alloyed surface will be formed upon said metal support.

3. An electrode of high electron emissive power, comprising a metal support chosen from the group of refractory metals consisting of tungsten, molybdenum, nickel and iron, said metal support carrying an electron emissive portion comprising an alloy of a plurality of electron emissive metals chosen from the group consisting of the alkaline earth metals and alkali metals, said alloy being itself profoundly alloyed with the metal support.

2,161,791
WINDOW ASSEMBLY
William D. Bayley, Springfield, Ohio, assignor to The William Bayley Company, Springfield, Ohio, a corporation of Ohio
Application June 3, 1935, Serial No. 24,653
12 Claims. (Cl. 189—64)

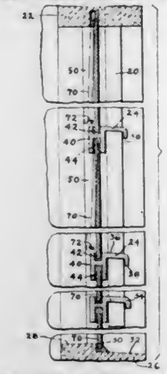


2. In a detention window assembly having a portion thereof glazed and another portion unglazed for ventilating area, mullion bars bounding the ventilating area, a closure for the ventilating area supported upon said mullion bars, said closure including a frame, sheet metal glazing supports mounted on the frame, said sheet metal glazing supports having an inwardly projecting flange adapted to engage the glazing on one side of the frame and terminating in a folded portion upon the opposite side of the frame adapted to engage the mullion bars when in closed position.

2,161,792
DETENTION WINDOW AND METHOD OF GLAZING SAME
William D. Bayley, Springfield, Ohio
Application December 14, 1936, Serial No. 115,752
8 Claims. (Cl. 189—64)

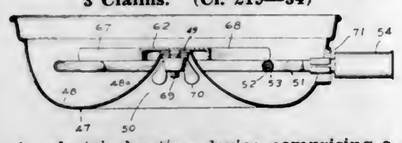
1. A metallic window assembly for use in a window opening in a wall of masonry, said assemby including a metallic frame having a plurality of horizontally disposed muntin bars, and a sheet metal channel member mounted in the wall on one side of the window opening, said channel member passing through apertures near

the end of the muntin bars, and including tongues deflected from the walls of the channel adapted



to fasten the channel in the masonry bounding the window opening.

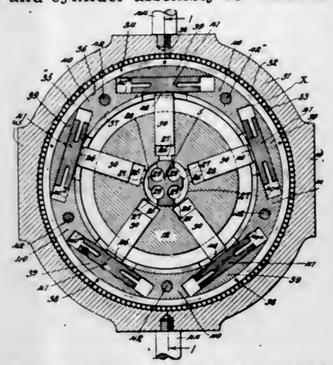
2,161,793
REFLECTOR-HEATER WITH SHEATHED ELECTRIC HEATING ELEMENTS
Constant Beaucolin, Luxemburg, Luxemburg
Application June 24, 1937, Serial No. 150,209
3 Claims. (Cl. 219—34)



1. An electric heating device comprising a reflector body defined by a substantially annular trough-like reflector surface having an annular line of foci and having a central mound-like portion integral therewith and forming a part of the effective heat reflecting surface; an annularly extending sheathed heating element positioned substantially in the plane of said line of foci; a spider-like structure having radial arm portions fixed to said annular sheathed heating element and adapted to be seated upon said mound-like portion, and means for directly and detachably fastening said spider-like construction to said mound-like portion so as to support the spider-like structure in effect solely upon and by said mound-like portion of the reflector body, said heating device thus constituting in effect and substantially a two-piece mounted assembly as of reflector body and heating element.

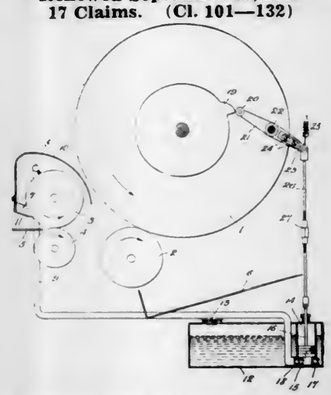
2,161,794
HYDRAULIC PUMP OR MOTOR
Elek K. Benedek, Bucyrus, Ohio
Application September 20, 1935, Serial No. 41,475
6 Claims. (Cl. 103—161)

1. In a hydraulic pump or motor of the type including a plurality of radial piston and cylinder assemblies, each including a piston element and a cylinder element, the combination of cross heads connected respectively to one element of each of said assemblies; and cross head guiding means having thrust-transmitting surfaces engageable respectively with said cross heads, and being located radially outwardly beyond and directly in the line of the axis of the associated piston and cylinder assembly, each cross head comprising a member at least one end portion of which is bifurcated towards but not all the way to the middle, and said crosshead comprising a solid portion disposed between the element of said piston and cylinder assembly to which the cross-



head is connected and the associated thrust-transmitting surface.

2,161,795
MOISTENING DEVICE FOR DUPLICATING MACHINES
Egidio Maria Benello, New York, N. Y.
Application April 29, 1937, Serial No. 139,695
Renewed September 23, 1938
17 Claims. (Cl. 101—132)

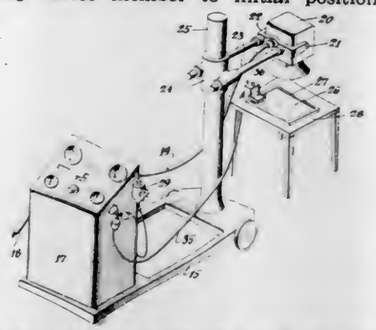


1. In a duplicating machine for printing onto clear sheets previously moistened with a readily volatilizing solvent matter imprinted in copyable mirror-script on a master sheet, a moistening device for said sheet, said moistening device comprising in combination a moistening roller, a counter moistening roller cooperating therewith, and means for applying a fine spray of a readily volatilizing solvent onto the surface of said moistening roller for moistening said clear sheets.

2,161,796
METHOD OF AND MEANS FOR MAKING RADIOGRAPHS
Timothy S. Buckley, Jackson Heights, Long Island, N. Y.
Application March 26, 1937, Serial No. 133,134
3 Claims. (Cl. 250—67)

1. In combination with an X-ray machine having an exposure-timing switch, an X-ray screen movable from a normally removed position to a covering position in respect to a portion of a sensitized layer positioned for exposure in said X-ray machine, a screen-controlling member, a timing device comprising relatively movable members

for determining a variable duration of exposure prior to the movement of said screen to covering position, one of said timing device members being adjustable to predetermine the initial position of the other timing device member, a yieldable connection between said timing device members, said connection being stressed for returning said other timing device member to initial position and



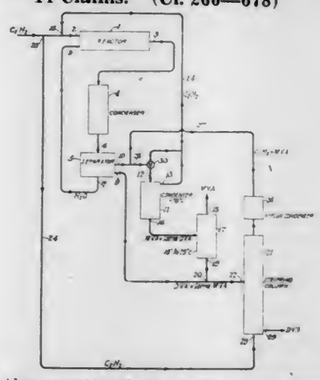
tending to retain it there after each displacement therefrom, electro-responsive means under the control of said timing switch, and an operating connection between said electro-responsive means and said screen-controlling member, said operating connection including members movable with said screen-controlling member and said other timing device member respectively for the actuation of the former by the latter.

2,161,797
CHEMICAL PROCESS

Albert S. Carter, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 15, 1937, Serial No. 169,169

14 Claims. (Cl. 260—678)



12. In the process of separating monovinylacetylene from divinylacetylene, the step of stripping monovinylacetylene from a liquid mixture of monovinylacetylene and divinylacetylene by passing gaseous acetylene and said mixture in contact with each other.

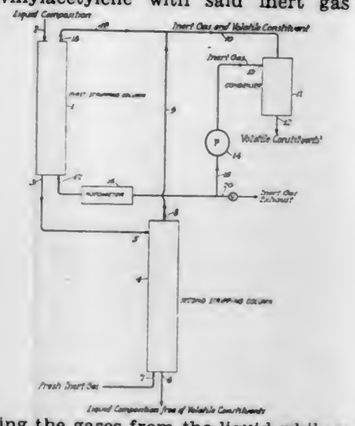
2,161,798
CHEMICAL PROCESS

Albert S. Carter, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 15, 1937, Serial No. 169,170

3 Claims. (Cl. 202—46)

1. A process for removing divinylacetylene from a liquid composition which comprises an oily acetone-soluble polymer of divinylacetylene, which process comprises bringing an inert gas into contact with said liquid composition, entraining divinylacetylene with said inert gas and



separating the gases from the liquid while maintaining the temperature at between 20° and 45° C. which is below that at which said polymer of divinylacetylene is heat polymerized in substantial amount.

2,161,799
SKIING SURFACE

Thomas Castberg, Berkeley, Calif.

Application August 18, 1936, Serial No. 96,601

1 Claim. (Cl. 139—391)



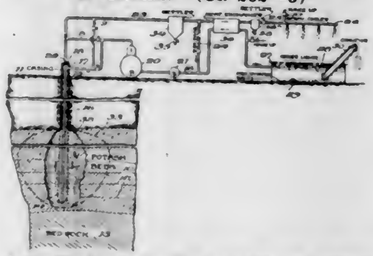
A woven skiing surface comprising a base and pile of fibres firmly anchored in said base, the fibres having the characteristics of sisal, the spacing of the fibres projecting from the base being such as to allow the upper portions of the fibres to be bent over and pressed down so that a surface is presented which is sufficiently yielding to permit a ski to sink at least its depth into and below the free ends of the fibres, and the length of the fibres being sufficient to permit them to bend over in the direction in which the ski is traveling to present a surface which accelerates longitudinal skiing movement while at the same time resisting lateral movement of the ski to permit directional control.

2,161,800
MINING POTASH

Roy Cross, Kansas City, Mo.

Application April 10, 1937, Serial No. 136,178

10 Claims. (Cl. 262—3)



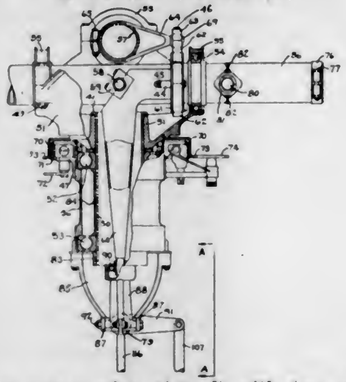
1. A method of winning potassium compounds from underground potash beds, which comprises establishing and maintaining a body of superheated saline liquor, unsaturated with respect to potash, in contact with such beds to form a hot-walled cavity, maintenance being of a time sufficient to dissolve potash, withdrawing liquor from said body containing potash salts in solution, cooling the withdrawn liquor to cause precipitation of potash salts therefrom, removing said precipitated salts, reheating to a superheated condition the mother liquor remaining after precipitation of the potash salts, and sending it back into the cavity to replenish said body of liquor.

2,161,801
ROTARY WING AIRCRAFT

Elliot Daland, Philadelphia, and Harold A. Backus, Merion, Pa.

Application April 18, 1935, Serial No. 17,006

10 Claims. (Cl. 244—18)



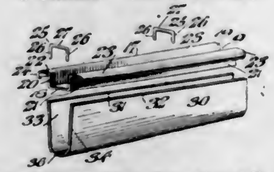
1. In rotary wing aircraft with two pairs of feathering blades, upper and lower shafts disposed one above the other, at 90° to each other, one pair of blades interconnected by each of said shafts, a lever pinned to the lower shaft, an arm on said lever extending along said lower shaft, a spherical ring surrounding said lower shaft and engaged by said arm and a lever fastened to the upper shaft engaged operatively by said ring for the purpose of changing the angle of incidence of blades attached to said shaft.

2,161,802
FABRIC ATTACHING CAP STRIP FOR AIRCRAFT

Carl de Ganahl, Bristol, Pa., assignor to Fleetwings, Inc., Bristol, Pa., a corporation of Delaware

Application May 25, 1937, Serial No. 144,594

8 Claims. (Cl. 244—132)



1. A cap strip section for aircraft ribs, comprising an integral channel member comprised of a bottom wall, spaced side walls, wings extending laterally of the side walls to form bearing surfaces for fabric, the wings having a curved longitudinal bead on the free edge to minimize fabric chafing, the space between the wings comprising an elongated slot or trough and a plurality of thin straight anchoring and reinforcing elements disposed close to the average plane of the wings and rigidly secured within the trough substantially perpendicular to the side walls of the channel members.

2,161,803
PROCESS FOR TREATING RESINOUS BODIES

Emile C. de Stubner, Charleston, W. Va.

No Drawing. Application May 26, 1936, Serial No. 81,913

5 Claims. (Cl. 134—58)

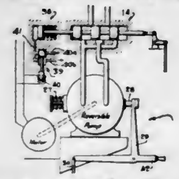
2. A process of dispersing insoluble coloring matter in the resinous base of a coating composition which includes the novel steps of admixing the insoluble coloring matter with a solution of the resinous base, precipitating the resinous compound from the said admixture by adding thereto a liquid agent which is chemically inert toward the resinous base and a non-solvent therefor but which is miscible with the solvent for the resinous base, to precipitate the resinous base from the solution and to form from the admixture a mass of a plastic kneadable consistency, kneading said mass until the coloring matter is dispersed therein to the desired degree and thereafter extending and diluting the mass by admixing therewith a sufficient quantity of a solvent for the resinous base to restore said base to solution.

2,161,804
HYDRAULIC PRESS

Richard W. Dinzl, Narberth, Pa., assignor to Baldwin-Southwark Corporation, a corporation of Delaware

Application November 9, 1935, Serial No. 49,050

1 Claim. (Cl. 60—52)



In combination, a hydraulic press having a platen operated by a main ram and cylinder and a pull-back ram and cylinder, a power driven variable stroke positive displacement pump, a control valve adapted to distribute fluid from said pump alternatively to said cylinders to effect pressing and reversing operations, means for automatically effecting and maintaining short stroking of said pump in accordance with movements of the platen when in its returned position thereby to hold up the platen, and solenoid controlled means for returning said control valve to its neutral position automatically upon failure of pump pressure.

2,161,805
TREATMENT OF TEXTILES AND OTHER MATERIALS

Henry Dreyfus, London, Donald Finlayson and Richard Gilbert Perry, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

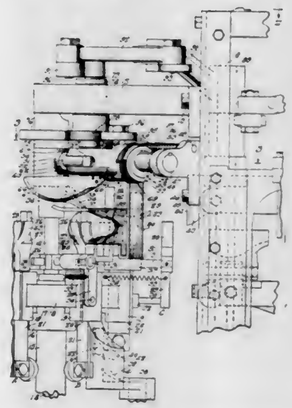
No Drawing. Application November 15, 1937, Serial No. 174,714. In Great Britain November 16, 1936

15 Claims. (Cl. 91—70)

1. Process for increasing the resiliency of filaments, yarns, fabrics, films and like materials

having a basis of organic derivative of cellulose comprising causing the material to absorb from non-aqueous solution in methanol an intermediate water-soluble condensation product of urea and formaldehyde made by heating the components in a slightly alkaline solution of methanol, rendering the solution slightly acid, allowing it to stand and further acidifying with a mineral acid, the solution being maintained substantially anhydrous throughout, drying the material at ordinary temperatures after absorption of the intermediate compound and finally heating it to form from said intermediate compound a water-insoluble synthetic resin in the material.

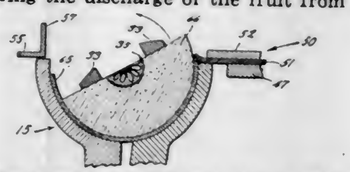
2,161,806
BOBBING DEVICE
Mark Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Application July 11, 1932, Serial No. 621,857
Renewed April 28, 1938
47 Claims. (Cl. 146—81)



1. The combination with a cup having an axis corresponding to the axis of a pear therein, of a bobbing device comprising a support, a knife on said support, gauge means also on said support and removed from said knife a predetermined distance for selectively positioning said knife with respect to such pear in said cup, means for moving said bobbing device in parallelism with the axis of such pear, and means for moving said knife independently of said gauge means and transversely of the axis of such pear, said gauge means being adapted to engage a section of a pear of predetermined diameter when moved longitudinally thereof, and the means for moving said knife independently of said gauge means being operative when said gauge means has engaged a pear.

2,161,807
FRUIT CUTTING AND DISCHARGING MEANS
Mark Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Application April 4, 1935, Serial No. 14,594
Renewed December 9, 1937
37 Claims. (Cl. 146—38)

1. In combination, fruit supporting means for a peeled half fruit and its peel, means for discharging the peeled fruit from said supporting means, and means associated with the fruit supporting means and engaging a section of such peel during the discharge of the fruit from said

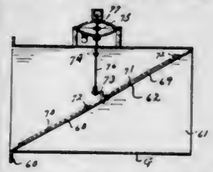


supporting means to retain the peel in said supporting means.

2,161,808
TREATMENT OF TEXTILE MATERIALS
Donald Finlayson and Richard Gilbert Perry, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 29, 1936, Serial No. 93,230. In Great Britain September 11, 1935
10 Claims. (Cl. 91—70)

1. Process for improving the resistance to creasing or crushing of textile materials which comprises incorporating in the textile materials a reaction product of an aldehyde with a single substance capable of condensation therewith, said substance being selected from the group consisting of hydroxylamine, hydrazine and alkyl, aryl, aralkyl and acidyl derivatives of hydroxylamine and hydrazine.

2,161,809
DRAFT CONTROL DEVICE
Roye W. Franks, Salt Lake City, Utah
Original application June 28, 1934, Serial No. 732,810. Divided and this application September 10, 1935, Serial No. 39,941
6 Claims. (Cl. 236—45)

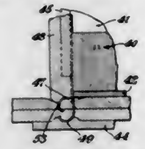


6. A check damper mechanism for furnaces having a flue and comprising a main flue damper, means operable in response to predetermined heat conditions to open and close the main damper, a supplemental damper carried by the main damper and movable to open and closed positions, independently of the main damper, means mounting said supplemental damper for movement to said positions consequent upon a differential in pressure within and outside the flue.

2,161,810
METHOD OF STAPLING AND DEVICE THEREFOR
Charles B. Goodstein, Brooklyn, N. Y.
Application July 23, 1935, Serial No. 32,743
Renewed December 31, 1937
13 Claims. (Cl. 1—1)

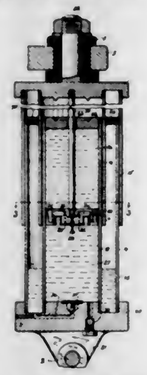
1. In a stapling device for driving and clenching a vertically disposed straight staple strip, two vertical guide members engageable with the lateral sides of the strip and terminating above the surface of the material being stapled, and a plunger narrower than the width of the strip and vertically movable between said guide members

for driving the staple strip downwardly a predetermined distance in the direction of its length into the material, the underside of the plunger



being adapted to operatively engage the top portion of the strip to deflect it downwardly into engagement with the material to form a top clench.

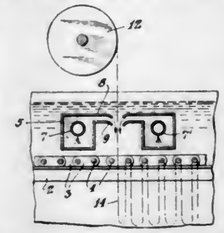
2,161,811
SHOCK ABSORBER
John J. Grebe, Midland, Mich.
Application June 14, 1937, Serial No. 147,999
14 Claims. (Cl. 188—88)



6. In a two-way shock absorber for damping oscillating movement of a body resiliently supported on a support developed by sudden relative displacement of the body and its support in each of two opposite directions from a starting position and the return thereof, means employing fluid for resisting relative movement of the body and to the support both during the displacement in each direction and the return, means for relieving resistance developed during a predetermined relative displacement of the body and support in each of said directions, mechanism for rendering relief gradually decrescent during continued displacement in said directions until a predetermined resistance is developed, means for continuing substantially constant relief during continued displacement, and said mechanism operating to gradually increase the relief during the return of the axle to normal position.

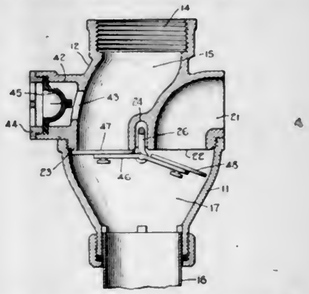
2,161,812
APPARATUS FOR CONTINUOUSLY FEEDING A WEB OF FABRIC IN OPEN STATE INTO A TREATING LIQUID
Otto Gretler, Zurich, Switzerland, assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y., a corporation
Application June 21, 1935, Serial No. 27,662. Renewed June 15, 1937. In Germany June 27, 1934
8 Claims. (Cl. 68—175)

1. Apparatus for the continuous wet treatment of textile material comprising a treating tank, means for continuously feeding textile material into said treating tank comprising at least two opposing compartments facing one another, means for introducing liquid into said compartments, the lower surfaces of said compartments defining a slot extending at least with its lower



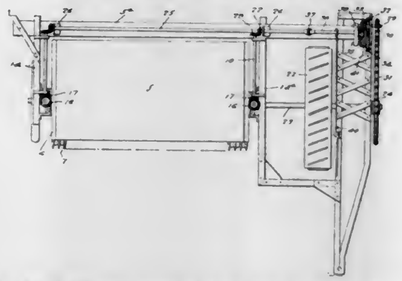
end below the liquid level in said tank and an outlet from said compartments directing a stream of treating liquid downwardly into said slot to thereby pass a web of textile material in substantially air-free condition through said slot and into said tank at a point below the liquid level in said tank.

2,161,813
AUTOMATIC AIR VALVE WITH SWING CHECK AND BACK PRESSURE CONTROL
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application January 29, 1937, Serial No. 122,927
2 Claims. (Cl. 137—69)



1. In a back pressure control device the combination of, a body comprised of an upper and a lower member, a chamber formed in the lower member, a passage extending longitudinally through the upper body member, an arcuate passage in said top member, both said passages communicating with the chamber in the lower body member, valve seats formed at the inner ends of the passages in the upper body member, a frame pivotally mounted in the upper body member, valves mounted thereon and associated respectively with the valve seats formed at the exit end of the longitudinal passage and at the inner end of the arcuate passage, and whereby upon back pressure in the valve body the valve associated with the valve seat in the longitudinal passage will engage with said valve seat to prevent egress of water therethrough and whereby the valve associated with the valve seat at the inner end of the arcuate passage will be removed therefrom to permit air to flow into the chamber in the lower body member, and a valve independent of the valve associated with the inner end of the longitudinal passage permitting flow of air directly into the longitudinal passage while the last said valve is in engagement with the said valve seat.

2,161,814
PLATFORM MOUNT AND LIFT FOR WINDROWERS
Walter Hage, Hillsboro, N. Dak., assignor of one-half to Harry M. Anderson, Hillsboro, N. Dak.
Application January 7, 1937, Serial No. 119,501
2 Claims. (Cl. 56—211)



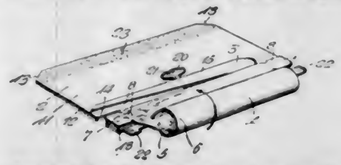
1. A platform mount and lift for windrowers comprising a frame structure including a horizontal portion and pairs of vertically arranged posts depending from the horizontal portion to slidably receive therebetween a platform of a windrower having a frame, guide flanges on said posts, an axle journaled on the frame structure with the pairs of posts straddling the axle, a ground power wheel secured on the axle adjacent one end thereof and arranged at one side of the frame of the platform, a ground wheel supporting the axle adjacent its other end and arranged on opposite side of the platform from said power wheel, upstanding plates secured on opposite sides of the platform frame and slidable between the pairs of posts, guide flanges on the plate and slidably engaging the guide flanges of the posts for slidably mounting the platform for adjustment towards and from the ground, vertically arranged screw shafts journaled on the frame structure and arranged between the pairs of posts, screw blocks meshing with the screw shafts and pivotally connected on the upstanding plates, a driven shaft journaled on the horizontal portion of the frame structure, means for connecting said driven shaft to thes crew shafts, and a manually controlled reversible drive means connecting the driven shaft to the axle adjacent the power wheel.

2,161,815
CHEMICAL PROCESS
Frederick C. Hahn, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 13, 1935, Serial No. 49,460
23 Claims. (Cl. 260—231)

1. Process for the preparation of cellulose ethers, which comprises emulsifying caustic soda and water in an inert organic diluent, intimately mixing granulated wood pulp with the emulsion and reacting the intimate mixture of cellulose and alkali with an etherifying agent.

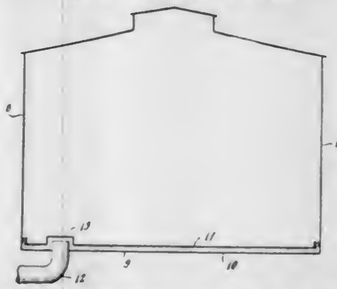
2,161,816
INDIVIDUAL CIGAR BOX
Hyman Jacobstein, New Rochelle, N. Y.
Application June 27, 1936, Serial No. 87,780
13 Claims. (Cl. 131—11)

1. A cigar box comprising a cylindrical body formed of sheet material rolled about a cigar and enclosing the same, a jacket formed of sheet material secured along one side under a side edge portion of the first sheet and folded about the body and enclosing the same, and an opener comprising an anchoring element secured between overlapped side edge portions of said sheets



and a flexible blade extending longitudinally of the body between the body and the jacket with one end joined to the anchoring element and its other end protruding through an end of the jacket.

2,161,817
GAS HOLDER WITHOUT DEAD SPACE
Konrad Jagschitz, Mainz, Germany, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Germany, a corporation of Germany
Application October 2, 1935, Serial No. 43,171
In Germany October 18, 1934
16 Claims. (Cl. 48—176)

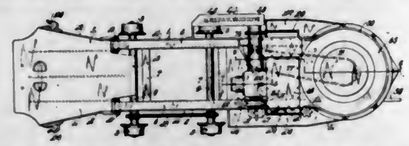


13. A gasholder for the storage of large quantities of gas in the open, comprising, in combination, an upwardly extending shell confining the gas at the side; a horizontally extending flat top section sealedly associated with the shell and confining the gas from above; a bottom; a permanent layer of liquid covering the bottom; at least the inner central portion of said bottom, underlying the top section, being substantially horizontal and the layer of liquid thereon being thus of substantially uniform depth; said top section being movable relatively to the surface of the liquid layer, and the underside of the top section and the liquid layer being in contact throughout substantially the entire area of the top section when the latter is in its lowermost position; and conduits for introducing gas into and for withdrawing the same from the gasholder.

2,161,818
TRUCK
Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application May 27, 1936, Serial No. 82,154
17 Claims. (Cl. 105—161)

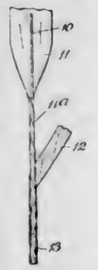
1. In a mining machine transport truck, the combination compriisng a truck frame adapted to receive a mining mechanism having a driving motor, a cable reel mounted on said truck frame and having wound thereon a power conductor

cable for said motor, motor operated means for rotating said cable reel, and a servo-motor for



moving said cable reel axially to disconnect the reel from its rotating means.

2,161,819
CELLULOSIC CORD
Morris Katz, Bronx, N. Y.
Application February 4, 1938, Serial No. 188,692
9 Claims. (Cl. 57—150)



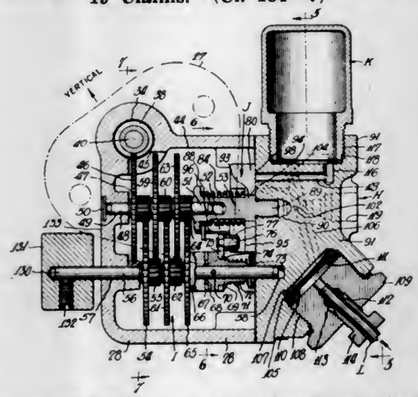
1. A cord or strand of the class described comprising a core, a twisted filler of "Cellophane" arranged on said core, and an outer covering strip of colored "Cellophane" spirally arranged upon said twisted filler.

2,161,820
SHOCK ABSORBING DEVICE
Gregory J. Kessenich, Madison, Wis.
Application May 10, 1938, Serial No. 207,105
5 Claims. (Cl. 244—138)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A shock absorbing device comprising a flexible cable and a tubular metallic member surrounding a portion of the cable and having a plurality of folds to provide bent portions for yieldingly resisting straightening out of said tubular member when tension is applied to the cable and adapted to remain straightened out, said tubular member being wound in a plane spiral for packing in a container.

2,161,821
LUBRICATION
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application January 16, 1935, Serial No. 1,985
19 Claims. (Cl. 184—7)

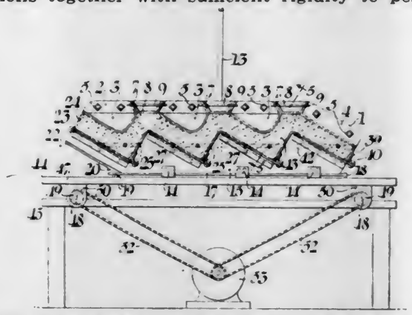


11. In a mechanism having bearings to be lubricated, a central lubricating installation comprising a central pump, a branched pipe system with an inlet and a plurality of outlets to the bearings of the mechanism to be lubricated, a unit comprising a resiliently charged and discharged distributing receiver chamber charged from said pump and discharging to said system, an inlet connection to said receiver chamber from said pump, an outlet connection from said receiver chamber to the system, and valve means to control said outlet and inlet connections, including a train of clock gear units, each consisting of a large driven gear wheel and a small rigidly connected driving pinion, said gears being mounted loosely on adjacent parallel shafts with the driving pinions of one clock gear unit meshing with the gear wheel of the next gear unit, whereby a compact gear assemblage is obtained capable of high reduction, said unit having a compartment receiving said gear assemblage and a structure at one side of said compartment receiving said chamber and a detachable screw cap for said chamber, said valve means and said pump being mechanically driven by said mechanism, said valve means controlling said outlet and inlet connections to open said inlet connection and close said outlet connection for a relatively short period of time and to open said outlet connection and to close said inlet connection for a relatively long period of time.

2,161,822
APPARATUS FOR PRECASTING CONCRETE STAIR STRUCTURES
Frank Kogl, St. Kogl, Minn.
Application September 23, 1937, Serial No. 165,295
11 Claims. (Cl. 25—118)

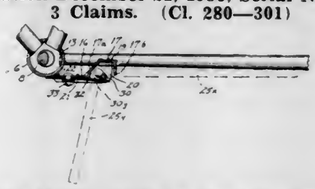
1. An apparatus for prefabricating a concrete stair structure comprising a mold which includes in combination a base section for molding the under parts of said stair structure, a partially assembled top section for molding the side walls and risers, a plurality of plates adapted to be slidably received by said top section and for

molding treads, and means for securing said sections together with sufficient rigidity to permit



the entire apparatus to be manipulated as an inflexible unit.

2,161,823
BICYCLE FRAME AND STAND CONSTRUCTION
Herman L. Kraeft, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 21, 1936, Serial No. 116,857
3 Claims. (Cl. 280—301)



2. In a bicycle having a rear wheel supporting fork, a bracket having a web provided with portions shaped complementary to the supporting fork and adapted to engage the fork when the bracket is secured thereto, said web having a downwardly opening pocket provided with a substantially downwardly extending front wall, a prop pivotally connected to said bracket and adapted to occupy a raised position in which the prop lies substantially parallel to and in contact with a downwardly facing surface of said fork, and a lowered position in which the lower end of the prop is located a material distance away from the median line of the bicycle, and forwardly of its pivotal connection with said bracket said prop having an offset portion positioned in said pocket and adapted and arranged to engage the front wall of said pocket when the prop is in the lowered position, and a spring supported by said bracket and underlying the offset portion of said prop, and adapted and arranged when said prop is in its raised position to coact with such offset portion to urge the prop upwardly and retain it in contact with the fork.

2,161,824
GASEOUS ELECTRIC DISCHARGE DEVICE
Hermann Krefft, Berlin-Friedrichshagen, Walter Hänlein, Berlin-Spandau, and Martin Wagner, Weisswasser O/L, Germany, assignors to General Electric Company, a corporation of New York
Application February 24, 1937, Serial No. 127,500
In Germany March 5, 1936
4 Claims. (Cl. 176—122)

1. A gaseous electric discharge device comprising a container, electrodes sealed therein, a gaseous atmosphere and a quantity of vaporizable alkali metal therein, the inner surface of said container being of an alkali vapor resistant glass



having the following composition:

	Per cent
Silica (SiO_2)	15 to 25
Alumina (Al_2O_3)	25 to 35
Boric oxide (B_2O_3)	20 to 35
Alkaline earth oxide	20 to 25

2,161,825
MANUFACTURE OF COPPER SALTS
Ernst Kuss, Kurt Horalek, and Oskar Emert, Duisburg, Germany, assignors of one-half to Duisburger Kupferhutte, Duisburg, Germany, and one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application April 6, 1937, Serial No. 135,294. In Germany March 14, 1934
3 Claims. (Cl. 23—117)

1. Process of preparing substantially zinc free sodium sulfate-copper sulfate double salt which comprises lixiviating chlorinated roasted burnt pyrites to obtain a solution containing iron, manganese, cobalt, lead, silver and arsenic as well as substantial amounts of zinc and more than 10 grams of copper, 30 grams of sodium, 50 grams of chlorine and 20 grams of sulfur per liter, increasing the sodium ion concentration of said solution by the addition of a water soluble sodium salt to the solution at a temperature above 15° C., agitating the solution for several hours and separating the precipitated substantially zinc free sodium sulfate-copper sulfate double salt from the solution containing the dissolved zinc and other metal salts.

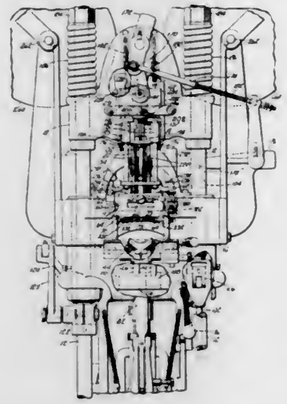
2,161,826
ALKYL PHENOL AND METHOD OF MANUFACTURING SAME
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 28, 1934, Serial No. 727,881
9 Claims. (Cl. 260—624)

1. The method of alkylating phenols characterized in that an alkyl chloride is first converted into an olefine by splitting HCl from the molecule, after which the olefine is combined with a hydrogen chloride to form an alkyl chloride, and, subsequently, is admixed and reacted with a phenol whereupon hydrogen chloride and the alkyl phenol are formed.

2. The method of alkylating phenols characterized in that an alkyl halide in which the halogen is joined to a member of the group consisting of a primary and secondary carbon atom, which carbon atom is linked directly to a tertiary carbon atom, is caused to react with phenol as such in the absence of a catalyst.

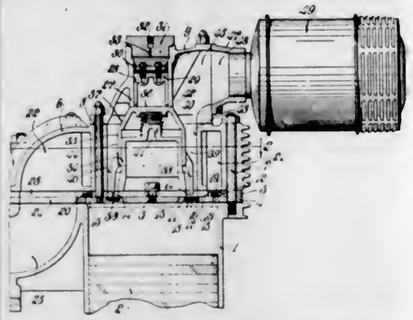
2,161,827
FASTENING-INSERTING MACHINE
Fred N. La Chapelle and John W. Ashley, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 27, 1936, Serial No. 76,577
Renewed July 15, 1938
125 Claims. (Cl. 1—32)

1. In a heel-attaching machine, a movable shoe-support, a heel-abutment provided with passages, means for moving the support with a supported shoe to press a heel against the abutment, means for feeding strings of material,



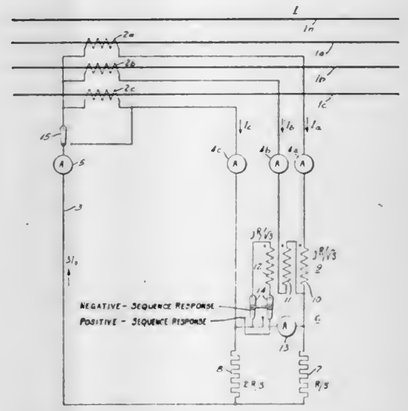
severing fastenings from the strings and delivering them to the abutment-passages, and a device operating in each passage for first pricking the heel and then driving the fastenings from the passages into the pricked openings in the heel.

2,161,828
AIR COMPRESSOR
Ralph E. Lamberton, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 27, 1935, Serial No. 56,357
5 Claims. (Cl. 230—30)



1. In an air compressor, in combination, a cylinder containing a reciprocatory piston, a cylinder head, inlet valve means, a cylindrical guide portion formed in said head, a cylindrical unloading plunger guided on said guide portion and having a smooth exterior surface, said plunger adapted to engage and hold open the inlet valve means to unload the compressor, intake passage means associated with said cylinder head and including an annular flow passage formed in said head and surrounding said cylindrical plunger, and a supplemental head attached to said cylinder head and having a cylinder containing a piston engageable with said plunger for actuating the latter, said passage means including an intake passage in said supplemental head communicating with said annular flow passage.

2,161,829
PHASE-SEQUENCE FILTER
Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1938, Serial No. 187,510
7 Claims. (Cl. 172—245)

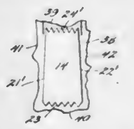


3. A static phase-sequence filter for segregating a symmetrical component of a three-phase system of variables comprising a first impedance element, means for causing said first impedance element to be energized in accordance with the vector sum of two phases of said system, a second impedance element, means for causing said second impedance element to be energized in accordance with the vector difference of two phases of said system, a third impedance element, means for causing said third impedance element to be energized in reversed direction in accordance with the remaining phase of said system, said impedance elements having relative impedance values of 1,

$$j\sqrt{3}$$

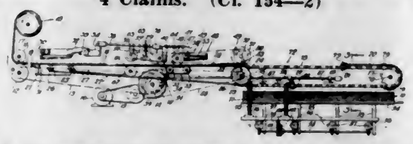
and 2, respectively, and electrical connections for obtaining the resultant of the impedance drops in said first, second and third impedance elements.

2,161,830
CUTTING FUR PELTS
Harry Linet, Yonkers, N. Y.
Application May 19, 1936, Serial No. 80,607
5 Claims. (Cl. 149—28)



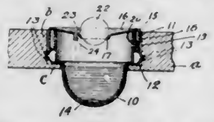
1. The method of preparing fur pelts for fitting into a finished garment comprising stretching the fur pelt to its ultimate stretched condition, marking the fur pelt to indicate the maximum usable amount of fur, and cutting in accordance with the markings and with a pattern corresponding to a predetermined section of a finished garment so that the fur pelt may be fitted into a finished garment in a position corresponding to its stretched cut size.

2,161,831
FILTER
Fowler Manning, Bronxville, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application February 24, 1937, Serial No. 127,338
4 Claims. (Cl. 154—2)



1. In a method of making air filters, the steps which comprise providing a plurality of approximately similar sections of corrugated paper and each section having one edge extending obliquely to the direction of extent of the corrugations; applying adhesive to at least one side face of each of said sections; stacking the sections one upon the other to form a composite block with the sides carrying the adhesive arranged in similar relative positions in the block and with said one edge of adjacent sections superimposed and parallel to one another so that the block is provided with an approximately planar face formed by said edges of adjacent sections with said face lying in a plane oblique to the direction of extent of all of the corrugations; and cutting successive slabs of uniform thickness from said planar face with the direction of cut parallel to the plane of said planar face so as to provide passages through each of the slabs which are parallel to one another and which extend obliquely to the planes of the opposite faces of each slab.

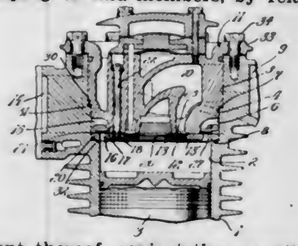
2,161,832
INKWELL FOR DESKS
John H. Oxley, Watertown, Mass.
Application December 14, 1937, Serial No. 179,684
11 Claims. (Cl. 120—67)



1. In combination with an ink-well cover having a circular pen opening, and an aperture at one side of said opening, a gravity actuated closure having a spherical face adapted to be seated in said opening, an arm fixed in said closure and extending through said aperture and freely movable therein, to permit displacement of said closure and return thereof to seated position, and means on said arm arranged to engage the cover to prevent withdrawal of the arm from said aperture.

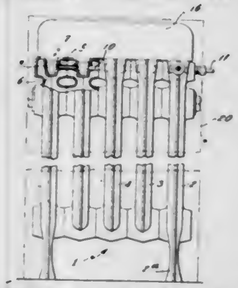
2,161,833
SEALING DEVICE
Win W. Paget, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application January 5, 1937, Serial No. 119,126
7 Claims. (Cl. 285—163)

1. In combination, a plurality of members arranged in coaxial relation and held against relative axial movement, coaxial annular plane surfaces on said members having different diameters, and means for sealing off passage of fluid through the space between said members including an annular initially plane gasket frustoconically deformed between said plane surfaces on clamping of said members, by relative axial



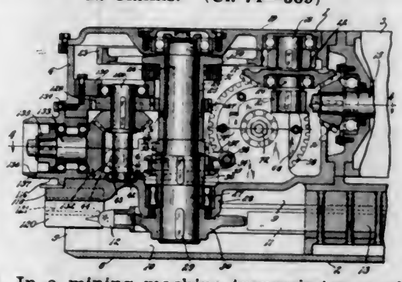
movement thereof, against the opposite initially plane surfaces of said gasket.

2,161,834
AIR CONDITIONING APPARATUS
Lauren E. Seeley, New Haven, Conn., assignor, by mesne assignments, to Utica Radiator Corporation, Utica, N. Y., a corporation of New York
Application December 9, 1936, Serial No. 114,933
4 Claims. (Cl. 257—138)



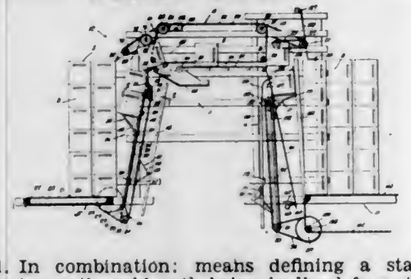
1. Air conditioning apparatus of the class described in which air is warmed by means of a sectional heater whose constituent sections are designed to define evaporating pans, comprising in combination a substantially rigid plate of bibulous material, said plate having spaced integral legs projecting from one edge, each leg being received in the evaporating pan of a corresponding section, and plate-positioning means carried by each section designed to removably hold the plate in operative position.

2,161,835
MINING MACHINE TRANSMISSION MECHANISM
Leon E. Simmons, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application March 30, 1936, Serial No. 71,656
12 Claims. (Cl. 74—389)



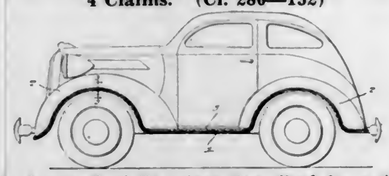
1. In a mining machine transmission mechanism, in combination, a vertical drive shaft, means for driving said shaft including a driving gear arranged coaxially with said shaft at the upper end thereof and means for operatively connecting said gear to said shaft, relatively rotatable members to be driven, and motor operated means for independently rotating said members at either high or low speeds including separate high and low speed transmission means, one high and low speed transmission means individual to the drive for each member, and means for driving said transmission means by said shaft driving gear including gears meshing with the latter.

2,161,836
BOX STACKER
James W. Stevenson, Riverside, Calif.
Application January 11, 1937, Serial No. 119,989
6 Claims. (Cl. 214—6)



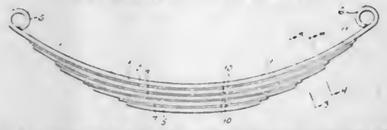
1. In combination: means defining a stack forming path, said path being inclined from the vertical away from the direction towards which said stacks are to be delivered; endless chain means disposed substantially parallel with and adjacent said path; a plurality of stack supporting cradles pivotally mounted on said chain means; means for operating said chain means and guiding said cradles to cause each of said cradles in turn to be relatively quickly extended into said path adjacent its upper end, lowered through said path until adjacent the lower end of said path, swung out of said path, and elevated to a position adjacent the upper end of said path; means for delivering boxes at regular timed intervals into a position at the upper end of said path from which position said boxes are permitted to move downwardly to form a stack of boxes on each of said cradles as it travels downwardly through said path; and means for ejecting from said path each stack of boxes so formed in time to permit the one of said cradles disposed upwardly in said path to receive the next box from said position as the lowermost box in the next succeeding stack to be formed.

2,161,837
GUARD FOR AUTOMOBILES
Karl G. Tell, Detroit, Mich.
Application March 8, 1938, Serial No. 194,691
4 Claims. (Cl. 280—152)



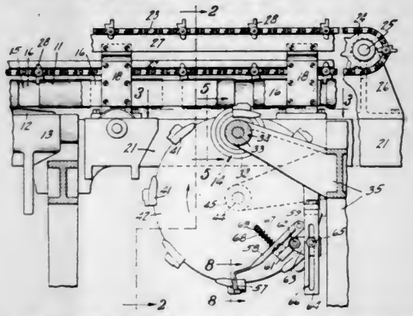
1. A guard of the class described for automobiles comprising a substantially flat, resilient strip engageable with an automobile, securing elements mounted in and passing through said strip for fastening same to the automobile, and resilient, external flaps integral with the longitudinal marginal portions of the resilient strip extending inwardly over the securing elements and substantially concealing said elements.

2,161,838
LEAF SPRING AND LINER CONSTRUCTION
Tom H. Thompson, Detroit, Mich.
Application October 30, 1936, Serial No. 108,371
11 Claims. (Cl. 267—47)



1. A laminated leaf spring liner, comprising a flexible elongated base strip of substantially uniform thickness, and a flexible strip secured thereon, forming a rib inwardly from both side margins of the base strip, adapted to occupy a groove in one of two spring leaves which are spaced apart by the base strip.

2,161,839
SOLDER WIPER
Custis S. Woolford, South Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 6, 1936, Serial No. 89,187
10 Claims. (Cl. 113—97)

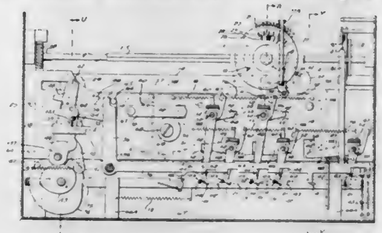


1. A solder wiping mechanism for soldering machines, comprising feeding devices for advancing a can body having a soldered side seam along a line of travel, a wiper located adjacent said line of travel and having engagement with the side seam of said passing can body during its advancement for wiping its soldered seam section, a shield for covering said wiper to prevent the entrance into the interior of said passing can body of solder and other foreign matter thrown from said wiper, and having side wings formed thereon and extending adjacent opposite sides of said wiper for catching the foreign matter thrown off by the wiper, said side wings also engaging against the sides of said wiper to reform it for the wiping operation and to protect it against mushrooming.

2,161,840
SELECTING AND TYPING MEANS FOR PRINTING TELEGRAPHS
Arthur Herman Adams, Yonkers, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 18, 1936, Serial No. 64,467
21 Claims. (Cl. 178—28)

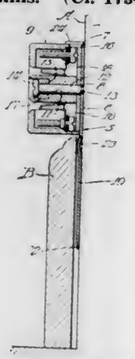
1. In an automatic typing mechanism, a type

member, a flexible tensile means to position said type member, a centering means more accurately to position said type member, a plurality of selected means cumulatively determining a lon-



gitudinal displacement of a portion of said tensile means, a printing presser, and means for operating said printing presser when said centering means has positioned said type member.

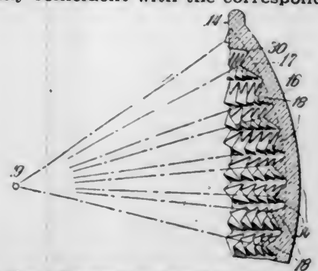
2,161,841
ELECTRIC RECEPTACLE SUPPORT
William Sidney Adelman, Chicago, Ill.
Application April 17, 1937, Serial No. 137,428
2 Claims. (Cl. 173—338)



1. A device of the class described and in combination, an electric receptacle, a relatively thin substantially flat support therefor, said support having a portion extending a substantial distance laterally at one side of said receptacle and adapted to be positioned between the wall and interior trim of a building, and a spring finger on said laterally extending portion and offset from the plane thereof.

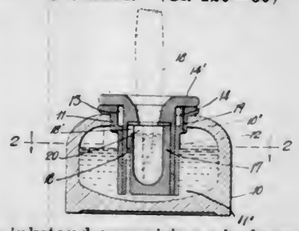
2,161,842
COMBINATION LENS AND REFLECTOR
William F. Allison, Sr., Strong City, Kans.
Application December 11, 1936, Serial No. 115,366
3 Claims. (Cl. 88—82)

1. A combined reflecting and refracting element comprising a concavo-convex body portion of light permeable material and whose convex and concave faces are of the same curvature, the convex side having a smooth surface; and a plurality of equal sided trihedral pyramids arranged on the concave side with their apex axes converging along lines coincident with the radii of the concave side of the curved body, the pyramids uniformly increasing in size from the center toward the edges of the concave surface and arranged in rows with the alternate pyramids in each row reversed so that two base edges of each pyramid are substantially coincident with the corresponding base edges of adjacent pyramids in the same row and the third base edge is substantially coincident with the corresponding base



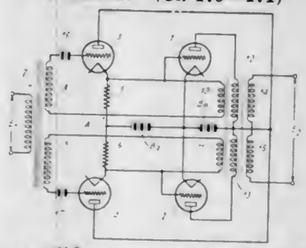
edge of the adjacent pyramid in the adjacent row to provide substantially continuous intersecting light transmitting surfaces.

2,161,843
INKSTAND
Frank M. Ashley, Great Kills, N. Y., assignor to Lewis Gompers, as trustee
Application April 27, 1938, Serial No. 204,577
8 Claims. (Cl. 120—60)



1. An inkstand comprising a body portion having a reservoir for ink therein, an outer sleeve member fitted in the upper side thereof in airtight relation, an inner sleeve fitted to slide closely in said outer sleeve and formed to provide a dip opening in its upper end adapted to support a pen-holder, a cup for ink carried by said inner sleeve and located below said dip opening, said construction embodying a passage leading from the reservoir directly to the upper end of said cup in open communication therewith at its upper end only.

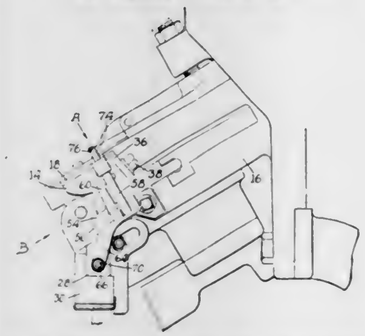
2,161,844
AMPLIFIER CASCADE WITH NEGATIVE FEEDBACK
Justus Bäbler, Zurich-Albisrieden, Switzerland, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application April 2, 1936, Serial No. 72,328
In Germany April 15, 1935
6 Claims. (Cl. 179—171)



1. An amplifier circuit comprising a pair of

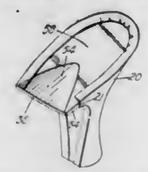
tubes connected in cascade, means for coupling the output of the second tube to the input of the first tube to produce negative feed-back, and a direct connection from the cathode of the first tube to the control grid of the second tube.

2,161,845
FASTENING-SUPPLYING MECHANISM
William Arthur Barton, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application August 25, 1936, Serial No. 97,790
In Great Britain October 8, 1935
13 Claims. (Cl. 1—6)



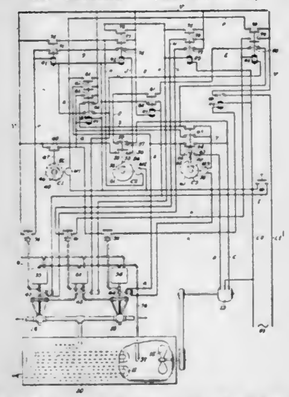
1. In a fastening supplying mechanism, the combination with a plurality of raceways for delivering fastenings, and a reciprocable separator arranged to separate a set of fastenings from said raceways at each reciprocation thereof, said separator having a plurality of fastening receiving slots therein to receive each set of separated fastenings, of automatic means arranged to prevent the delivery of a fastening from one of said raceways in alternate reciprocations only of the separator, said means comprising a member movable with the separator and arranged to extend across one of said slots in the separator to close said slot in said alternate reciprocations.

2,161,846
HEEL
Lewis J. Bazzoni, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 3, 1937, Serial No. 177,946
2 Claims. (Cl. 36—34)



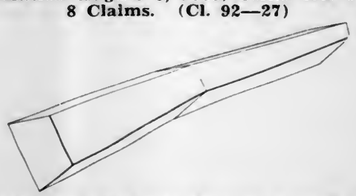
1. A Louis heel the forward portion of the attaching face of which is provided with a recess shaped to receive a heel-seat tab of an attached sole of a shoe and the remaining and major portion of the attaching face of which lies approximately in the plane of the rim of said face, said heel having a forwardly projecting lip the front end of which is of uniform thickness throughout its width for a short distance rearward of its front end.

2,161,847
SYSTEM FOR CONTROL OF DISCONTINUOUS PROCESSES
Raymond S. Blodgett, East Orange, N. J., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application December 28, 1937, Serial No. 182,132
10 Claims. (Cl. 257—2)



1. In a system for controlling the processing of material at a plurality of temperature values maintained in a predetermined sequence and for predetermined time intervals: motor-driven timing mechanisms for establishing said time intervals, pneumatic regulating means for establishing said temperatures, and fluid-pressure-actuated control means to be actuated thereby, with fluid-pressure connections placing said regulating and control means in operative communication, together with fluid-pressure responsive means associated with said connections and operable upon the attainment of predetermined pressure conditions in said connections to render active said timing mechanisms.

2,161,848
SEPARATOR OF SPECIAL MATERIAL FOR PAPER STOCK TREATING ENGINES
Archer Le Roy Bolton, North Andover, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application August 6, 1935, Serial No. 34,922
8 Claims. (Cl. 92—27)

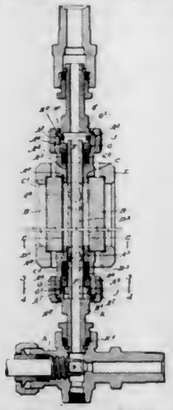


1. As an article of manufacture, a bodily transportable separator for paper stock treating engines of the beater and Jordan type, which is made of an artificial material which has no natural grain, but which has some elasticity and which will swell when in contact with water without becoming soft.

2,161,849
WATER LEVEL SIGHT GAUGE FOR BOILERS
Lambert J. Bordo, Willow Grove, Pa.
Application October 27, 1937, Serial No. 171,235
2 Claims. (Cl. 73—325)

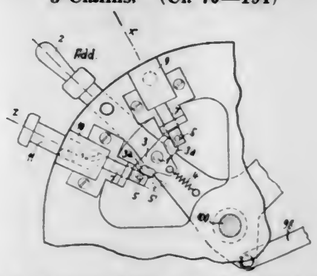
2. In a water level sight gauge for boilers com-

prising a chamber casing adapted to be connected at its ends with a boiler and having lateral openings formed on opposite sides of the casing and glass plates extending over and seated on the edges of such openings, the improvement which consists in providing as a means for securing and evenly clamping the glasses against their seats, clamping frames formed with openings the edges of which are adapted to rest upon the edges of the glass plates, and having



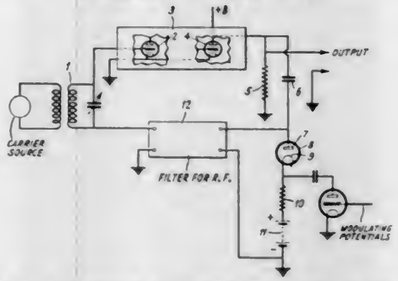
lateral outer edges so formed that the side edges of the clamping frames located on opposite sides of the casing will contact with and serve as supports for each other when the clamping frames on opposite sides of the casing are in contact with the glass plates and means for drawing the frames together and clamping them against the glasses so located as to apply pressure to the frames at points intermediate their outer edges and their edges extending over the sides of the glass plates.

2,161,850
LOCKING MEANS FOR LEVERS
Ernst Breitling, Berlin-Tempelhof, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application June 13, 1935, Serial No. 26,370
In Germany June 21, 1934
5 Claims. (Cl. 70—194)



1. In a machine of the class described, the combination of a lever adjustable to a certain position and a plurality of other positions, a member rotatably mounted on the lever, a lock for each adjusted position of the lever coacting with the member to lock the lever in said certain position, means to move each lock, whereby the lever can be moved into a position corresponding to the moved lock, said means being capable of moving the lock into locking position after the lever has been adjusted, cams on the member coacting with the locks whereby the lever is adjustable into said certain position when the locks are in locking position, and means to move the member into locking position when the lever is adjusted into said certain position.

2,161,851
CARRIER WAVE MODULATOR ARRANGEMENT
Christopher Sydney Cockerell, Danbury, England, assignor to Radio Corporation of America, a corporation of Delaware
Application December 12, 1936, Serial No. 115,487
In Great Britain December 27, 1935
6 Claims. (Cl. 179—171)

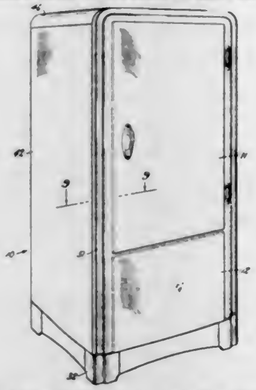


1. In a carrier wave modulation system suitable for modulating the amplitude of a high frequency carrier wave in accordance with television or like signals, a high frequency amplifier tube having input and output electrodes connected in input and output circuits respectively, means for applying carrier wave energy to be modulated to the input circuit of said amplifier tube, a direct current impedance connected between the output electrodes of said amplifier tube, a rectifier tube having an anode and a cathode, a series circuit including a resistance coupling the anode and cathode of said rectifier tube in shunt to said impedance whereby wave energy from said amplifier output is impressed on said rectifier, a control circuit connected in shunt to a portion of said series circuit, a coupling between said control circuit and an electrode in said amplifier tube for applying gain controlling potentials to said electrode of said amplifier tube, and means for impressing modulating potentials on said rectifier tube to control the gain of said amplifier tube in accordance with modulating potentials and potentials characteristic of modulated carrier energy supplied to said control circuit by said rectifier, the relative values of said first impedance and said resistance and the impedance of said rectifier tube being such that in the absence of modulating potentials the gain of said amplifier tube is adjusted to approximately one-half its maximum value so that the effect of the superimposed modulating potentials and rectified potentials characteristic of the modulated carrier energy is to vary the gain of said amplifier substantially rectilinearly about said adjusted value.

2,161,852
REFRIGERATOR
William D. Collins and Alfred E. Nave, Evansville, Ind., assignors, by mesne assignments, to Servel, Inc., Dover, Del., a corporation of Delaware
Application March 29, 1935, Serial No. 13,603
11 Claims. (Cl. 220—9)

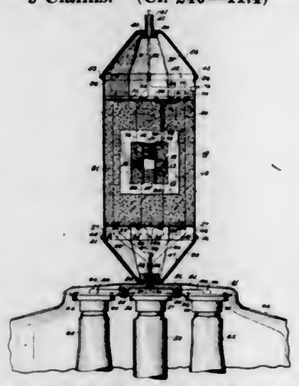
1. A refrigerator cabinet comprising a substantially chair-shaped metal frame having a rectangular base formed by four channel members

welded together at their ends, a pair of front uprights welded to the forward corners of said base, an upright back formed by a pair of facing channel members welded to the rear corners of said base, a seat formed by a metal sheet secured at the front to the upper ends of said front uprights and at the rear to the channel members forming said back, said seat being formed with an upward step at its forward edge, and a pair of arms extending forwardly from the channel members forming said back and adjacent the upper ends thereof, a substantially rectangular storage compartment unit seated on said frame and compris-



ing a rectangular liner open at the front, insulation material around the liner, and a wooden frame around the open front of the liner, the lower front edge of said unit being formed with a step adapted to engage said step on the forward edge of said frame seat, said forwardly projecting arms of the frame being attached to said wooden frame, and a sheet metal casing comprising a front panel secured to said wooden frame, and one or more side panels locked forwardly beneath the edge of said front panel and secured at the rear to the channel members forming the back of said frame.

2,161,853
COMBINED TRANSFORMER AND ILLUMINATING DEVICE
James A. Comstock, Cleveland, Ohio, assignor to The Acme Electric & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 15, 1936, Serial No. 59,251
9 Claims. (Cl. 240—11.4)



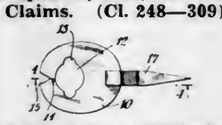
1. The combination, with an electrical illuminating device, of an electrical device for energizing the illuminating device, a housing for the electrical energizing device, said housing having a central portion and two end portions, a first partition for separating the central portion and one of said end portions, a second partition for separating the central portion and the other of said end portions, means for mounting the electrical energizing device between the two partitions, means for supporting the electrical illuminating device from one of said end portions, means for suspending the electrical illuminating device and the electrical energizing device as a unit from the other of said end portions, terminal members carried by the first partition, supply conductors passing through the suspending means and connected to the terminals mounted on the first partition, tap conductors interconnecting the electrical energizing device and the terminals mounted on the first partition, and circuit connections passing through the second partition and the supporting means for interconnecting the electrical energizing device and the illuminating device.

2,161,854
ARTICLE HOLDER
Daniel K. Copell, New York, N. Y.
Application April 2, 1937, Serial No. 134,521
5 Claims. (Cl. 248—315)



4. A holder comprising a hollow resilient body having a bore and provided with diametrically disposed slots in communication with said bore.

2,161,855
SUPPORT
Daniel K. Copell, New York, N. Y.
Application April 16, 1937, Serial No. 137,162
5 Claims. (Cl. 248—309)

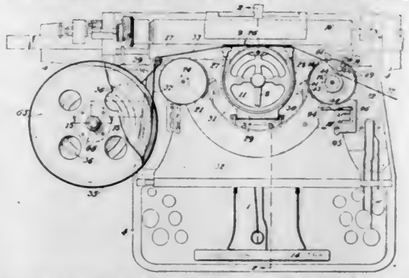


1. A support including a relatively thin rubber body formed with an aperture to receive an elongated article having a diameter greater than that of the aperture, said body being slitted from its outer edge through to said aperture to provide a pair of arm portions to each side of said slit, said slit affording a passage for the insertion of the article within the aperture by bringing said article to a point adjacent the outer end of said slit and pressing the same inwardly towards the axis of said aperture while wiping said article along the edge of said body whereby said arm portions will be flexed out of their normal plane to widen the gap provided by said slit to an extent such that the article may be received within said aperture, the resilience of the rubber being sufficient to firmly grip against displacement an article disposed within said aperture.

2,161,856
RIBBON MECHANISM
Ralph C. Coxhead, New York, N. Y., assignor to Ralph C. Coxhead Corporation, New York, N. Y., a corporation of Delaware
Application April 28, 1937, Serial No. 139,425
9 Claims. (Cl. 197—151)

1. In a machine of the class described, the

combination of printing type, means to present selected printed type at a printing point, means to guide a narrow ribbon paper strip having pigmentation thereon to present the same in effective position relative to said printing type, means to impress printing type through said ribbon upon



an impression sheet, means to feed said narrow ribbon strip definite predetermined intervals for each operation of the machine, carriage feed means, and means to change both said carriage feed and said ribbon feed from one definite predetermined feed to another definite predetermined feed.

2,161,857

BRANCHED CHAIN OCTYL SULPHATES

Joseph G. Davidson, Scarsdale, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application December 28, 1936, Serial No. 117,920

11 Claims. (Cl. 260—459)

1. A sulphuric acid ester of a branched chain octyl alcohol.

2,161,858

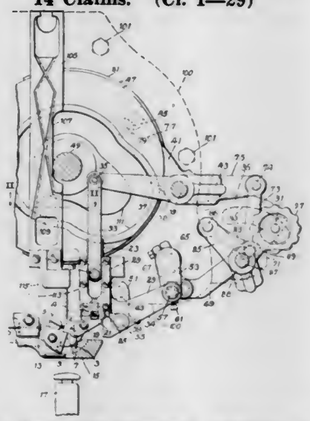
SLUGGING MACHINE

Harold Ernest Elliott, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application January 28, 1938, Serial No. 187,494

In Great Britain February 26, 1937

14 Claims. (Cl. 1—29)



1. In a fastening-inserting machine, an awl mounted for movement into and out of engagement with the work, and means for reciprocating said awl for feeding the work, said means comprising an awl carrier and a swinging support for said awl carrier constructed and arranged to maintain the awl in substantially parallel positions throughout its feeding movement.

2,161,859

PHOTOELECTRIC TUBE

Heinrich H. Geffcken, Berlin, and Hans R. Richter, Leipzig, Germany

Original application November 16, 1932, Serial No. 643,163, now Patent No. 2,055,487. Divided and this application June 17, 1936, Serial No. 85,650.

In Germany February 4, 1932

3 Claims. (Cl. 250—165)



1. A photoelectric tube comprising a cylindrical envelope of oval cross-section, a gaseous atmosphere therein, curved cathode and anode electrodes substantially conforming to and mounted adjacent to the wall portions of opposite halves into which said envelope is divided by the longer axis of its cross-section, said anode having a central window for passing controlling light rays unto said cathode, and a coating of photoelectrically active material on the inner surface of said cathode.

2,161,860

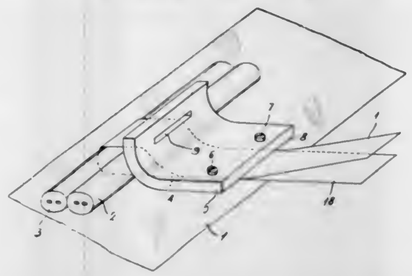
MEANS TO SECURE ELECTRIC LINES TO A SUPPORT

Erich Gentsch, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 1, 1937, Serial No. 166,808

In Germany July 28, 1936

4 Claims. (Cl. 24—19)



2. A fastener for securing electric lines to a support comprising an insulating strip member bent in the form of a loop around said electric lines, a clamping member in the form of a plate having a curved edge portion extending beyond said lines and bearing against at least one of said lines and said strip member, and means for securing said clamping member to said support.

2,161,861

FRACTIONATION OF PROTEINACEOUS FLUIDS

Tillman D. Gerlough, Highland Park, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application November 26, 1937, Serial No. 176,653

12 Claims. (Cl. 167—78)

1. The process of fractionating proteinaceous fluids containing pseudoglobulins and relatively inactive proteins, comprising preferentially precipitating the latter with a polyuronide.

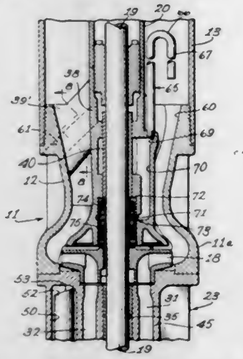
2,161,862

METHOD AND APPARATUS FOR PROTECTING PUMP BEARINGS

James M. Hait, Los Angeles, Calif., assignor to Food Machinery Corporation, a corporation of Delaware

Application March 20, 1936, Serial No. 69,923

6 Claims. (Cl. 103—102)



1. In combination with the pumping mechanism of a well turbine pump having a line shaft, a line shaft bearing and a pumped fluid delivery conduit: pressure conduit means for delivering fluid from a high pressure region in said delivery conduit into the space between said shaft and said bearing, said last mentioned means including a substantially vertical offset pipe section opening downwardly toward the fluid stream in said delivery conduit and sealing means surrounding said shaft and associated with said pressure conduit whereby the flow of fluid through said bearing is restricted and the flow in said vertical pipe section is thereby maintained of insufficient velocity and turbulence to support sand particles therein.

2,161,863

LAVATORY VENTILATOR

Louis N. Harbeke, Sacramento, Calif.

Application April 8, 1938, Serial No. 200,881

3 Claims. (Cl. 4—218)



1. A toilet ventilator including with a unitary toilet bowl and flush tank, there being an integral neck connecting the bowl and tank and in which the water flushing conduit is formed, continuous air passage means formed integral with the bowl, neck and tank and extending from the bowl above the conduit through the neck with an upward slope, then up the front of the tank on the inside to adjacent the top and then across the tank to a termination beyond the back side thereof for connection to a flue leading to exterior atmosphere.

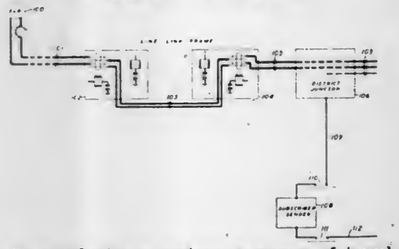
2,161,864

TELEPHONE SYSTEM

Ralph E. Hersey, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 17, 1938, Serial No. 214,350

7 Claims. (Cl. 179—25)



1. In a telephone system, a group of trunks, a marker arranged to make a plurality of trials to extend a call over said group of trunks, a series of test relays in said marker for testing the respective trunks of said group, and a circuit arrangement associated with said series of test relays for selecting the idle trunk nearest one end of the group on a first trial by the marker and for selecting the idle trunk nearest the other end of the group on a subsequent trial by the marker.

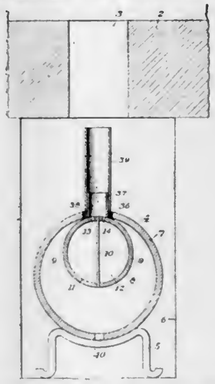
2,161,865

BURNER CONSTRUCTION

Charles A. Hobstetter and Joseph P. Gillis, Martins Ferry, Ohio, and Alonzo L. Milton, Wheeling, W. Va., assignors to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware

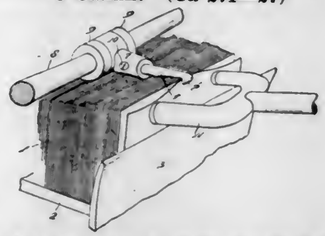
Application May 29, 1936, Serial No. 82,536

10 Claims. (Cl. 158—104)



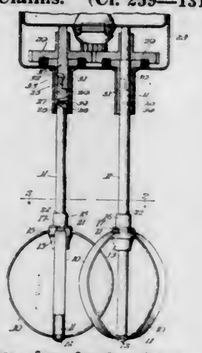
1. Burner construction, comprising a plurality of fuel ducts disposed generally in side-by-side relationship, means for admitting fuel thereinto, one of said ducts having fuel outlet means spaced therealong and of gradually increasing size in one direction, the other of said ducts having fuel outlet means spaced therealong and of gradually decreasing size in said direction, and means for controlling the flow of fuel in each of said ducts.

2,161,866
PRINTING PRESS
Arthur S. Huckins, Philadelphia, Pa.
Application June 27, 1935, Serial No. 28,734
8 Claims. (Cl. 271—27)



1. In a paper feed, a paper holder adapted to support a stack of paper on edge, and a floating separator pivotally supported at its rear, having its free end free to rise and fall on the stack, and having a hook engaging the front of the stack with the shank of the hook resting on the top edges of the sheets of the stack to provide a constant depth of penetration for sheets of variable cut.

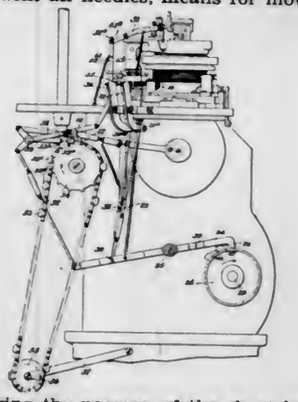
2,161,867
AGITATOR FOR FOOD MIXERS
Johannes B. Kessel, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application February 8, 1937, Serial No. 124,567
4 Claims. (Cl. 259—131)



1. An agitator for food mixers embodying a shaft, flexible strips secured together and to said shaft, said strips having free ends and being bent into substantially circular form and thereby placed under tension, the free end of each strip being shaped to form a head, a pair of collars mounted directly upon the shaft, one of the collars having open recesses to receive said heads, the tension of said strips maintaining their respective heads against a lateral face of said recesses, the other collar being disposed in close proximity to the last said collar to maintain said heads seated, a portion of one collar being flanged over a portion of the other collar to maintain them against separation, and means for maintaining the collars against movement upon said shaft.

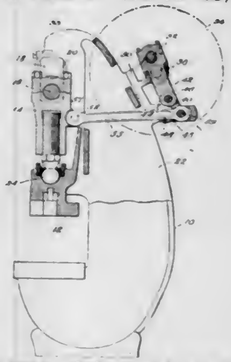
2,161,868
KNITTING MACHINE
Frederick J. Kienel and Thurston R. Fouts, Acworth, Ga.
Application May 17, 1938, Serial No. 208,338
16 Claims. (Cl. 66—40)

1. In a circular knitting machine, the combination with a rotatable cylinder, consecutive long butt needles and consecutive short butt needles, and knitting cams, of a freely rotatable selecting wheel normally out of operative relation with all needles, means for moving said



wheel during the passage of the short butt needles into position to engage the long butts only and further moving said wheel into position to engage the short butts after intermeshing with the long butts.

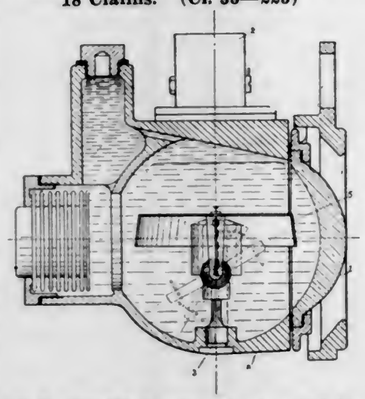
2,161,869
PRESS
William Klocke, Woodhaven, N. Y.
Application December 9, 1937, Serial No. 178,848
10 Claims. (Cl. 74—38)



1. A power press of the crank-shaft type, comprising a frame, a reciprocatory tool-carrying slide, a shaft in said frame having a crank thereon, a connecting rod having a pivotal connection to said crank and to said slide, and means for reciprocating said slide comprising a unidirectional revolvable crank and a link driven from said unidirectional revolvable crank and connected to said slide connecting rod at a point spaced from the pivotal connection between said connecting rod and said first-named crank, the construction and arrangement being such that the line of thrust of said link, in a position of said first-named crank which is 90° from its position of alinement, passes substantially off from the center of said first-named crank, so that the thrust of said link in said 90° position of said first-named crank exerts a substantial turning moment to the latter, and also such that the unidirectional revolution of said second named crank

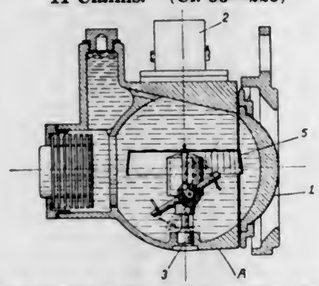
imparts to said slide a fast movement at the beginning and end of the crank-cycle and a slow movement in the mid-portion of the cycle (as the slide approaches its bottom-of-the-stroke position), as compared with the movement of a slide with a direct connection to a revolving crank, having the graphic representation of a sinusoid.

2,161,870
AUTOMATIC MEANS FOR VARYING COMPASS CARD OSCILLATION
Paul Kollsman, New York, N. Y.
Application May 17, 1933, Serial No. 671,548
18 Claims. (Cl. 33—223)



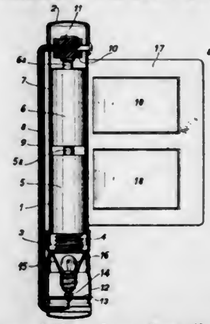
13. In a compass a member mounted for rotation in azimuth; a magnetic element mounted on said member for tilting movement relatively to said member about an axis substantially normal to the magnetic axis of said element; damping means including a liquid exerting on said member a torque opposing movements of said member in azimuth; and means connected to adjust the position of said magnetic element relatively to said member about said tilting axis; whereby the directional force of said element with respect to the earth's magnetic field is increased and decreased and the period of oscillation of the compass made adjustable.

2,161,871
AUTOMATIC MEANS FOR VARYING COMPASS CARD OSCILLATION
Paul Kollsman, New York, N. Y.
Original application May 17, 1933, Serial No. 671,548. Divided and this application July 30, 1937, Serial No. 156,551
11 Claims. (Cl. 33—223)



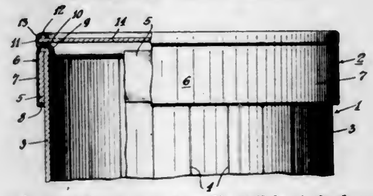
1. In a compass having a casing and a pivot therein; a member supported by said pivot for rotation in azimuth; magnetic means connected to said member to exert, upon deviation of said member from a predetermined position in azimuth, a torque on said member for returning said member to said predetermined position; means including a damping fluid exerting a torque on said member in opposition to the return movement; and means operable from a point outside said casing and operatively connected to one of said torque exerting means for varying the relative magnitudes of the torques exerted on said member by said magnetic and said opposing torque exerting means at a given deviation of said member in azimuth, whereby the period of oscillation of said member about the predetermined position in azimuth is adjustable without interfering with the free movement of said member.

2,161,872
ELECTRICAL POCKET WRITING AND READING LAMP
Franz Kostal, Vienna, Austria, assignor to Wilhelm Ernst Reeser, Modling-Hinterbruhl, Austria
Application October 26, 1937, Serial No. 171,047
In Austria January 25, 1937
3 Claims. (Cl. 240—6.4)



3. In a device of the class described, a tubular casing provided with means for clamping the object to be illuminated, said casing being adapted to enclose a battery, a straight, hollow arm of greater length than said casing and pivotally connected with one of its ends to one end of said casing, a tubular receptacle attached to the other end of said arm, capable of being brought into alignment with the battery casing, in one position, and conducting means within said hollow arm to transmit current from a battery within the casing to the said lamp receptacle.

2,161,873
CONTAINER
James C. La Grua, New Haven, Conn., assignor, by mesne assignments, to President and Directors of the Manhattan Company, New York, N. Y., as trustees
Application February 10, 1937, Serial No. 124,957
6 Claims. (Cl. 229—5.7)



1. In combination, a collapsible tubular body

member and a cover adapted to telescope over one end of the body member, said cover including a relatively flat discoidal end piece adapted to close the end of the body member and a constraining rim having a recess formed therein for the reception of the peripheral edge of said end piece, said rim having a portion adapted to engage the outer surface of the body member to lock the rim on the body member, and a flange intermediate the ends of said rim and extending across the end of the container body, said flange having an edge portion engageable with the inside face of the body member to prevent inward collapse thereof relative to said rim.

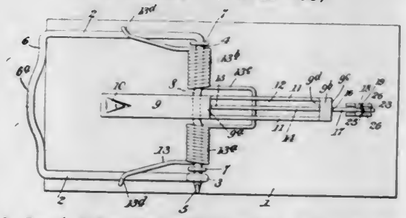
2,161,874

ANIMAL TRAP

John U. Lehn and Joseph D. Zahm, Lititz, Pa., assignors to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania

Application January 6, 1938, Serial No. 183,654

18 Claims. (Cl. 43—83)



1. In a trap, the combination with a pivoted spring actuated jaw, a pivoted locking plate having a locking detent for engaging the jaw, and a trigger engaging portion, a pivoted bait pedal having a trigger portion out of the range of movement of the trigger engaging portion of the locking plate in the released position of the trap, and means operated by the movement of the jaw to set position, and operatively connected with the bait pedal for bringing the said trigger into coacting range with the trigger engaging portion of the locking plate.

2,161,875

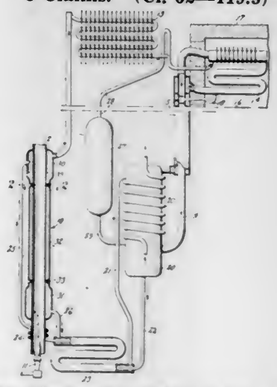
REFRIGERATION

Alvar Lenning, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application January 19, 1937, Serial No. 121,254

In Germany February 7, 1936

8 Claims. (Cl. 62—119.5)



1. In an absorption refrigeration apparatus, a vertical cylindrical generator for containing a solution of absorption liquid and refrigerant, a tubular heating flue extending upwardly through said generator and forming a substantially annular space for said solution, means for introducing strong solution at the upper end of said generator, and means for withdrawing weak solution from the lower end of said generator, said generator and said flue being so constructed and arranged that the annular space intermediate the ends of said generator is relatively narrow and smaller than the annular spaces at the upper and lower ends of said generator.

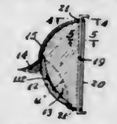
2,161,876

DOLL EYE AND LASH

William Lorenz and Lazurus W. Pollack, New York, N. Y., assignors, by mesne assignments, to Margon Corporation, Bayonne, N. J., a corporation of New Jersey

Application February 4, 1936, Serial No. 62,239

11 Claims. (Cl. 46—169)



1. A doll eye comprising a convex approximately hemispherical metallic shell formed with a sideward projection for mounting the eye, said shell having an iris opening therein, an approximately hemispherical inner member inserted in said shell and having a pupil and iris simulation exposed through said iris opening, and means for fixedly locking the inner member within the outer shell.

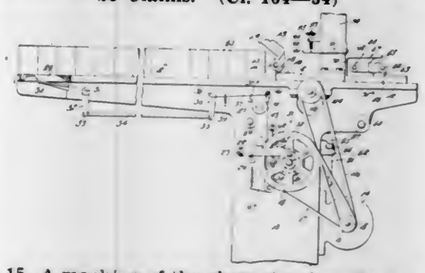
2,161,877

MECHANISM FOR APERTURING CARTONS

Francis X. Malocsay, Upper Saddle River, N. J.

Application November 10, 1938, Serial No. 239,824

26 Claims. (Cl. 164—34)



15. A machine of the character described comprising, means for supporting a stack of closed and filled cartons, a support upon which the lowermost carton in the stack rests, a feed member movable on the support, means for moving said feed member below the stack to cause the same to engage the lowermost carton in the stack and move it away from the stack, a plurality of spaced, fixed piercing blades mounted on the support and having tapered and pointed ends directed toward the carton that is moved toward them by the feed member, each of said blades having a rotary cutting knife operative along each of its edges whereby said blades and knives cooperatively cut apertures in the cartons without requiring the opening of the cartons or the removal of the contents thereof, means for rotating the cutting knives, means for moving the apertured cartons away from the blades and knives after the cartons have been apertured thereby, and means for tumbling the carton to bring its apertured wall to an upwardly disposed position on the support.

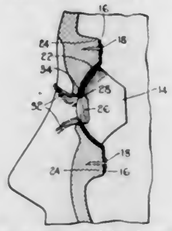
2,161,878

MANNIKIN WITH EYES AND LASHES

Samuel Marcus, Belle Harbor, N. Y., assignor, by mesne assignments, to Margon Corporation, Bayonne, N. J., a corporation of New Jersey

Original application May 11, 1934, Serial No. 725,183, now Patent No. 2,111,150, dated March 15, 1938. Divided and this application February 1, 1936, Serial No. 61,903

9 Claims. (Cl. 46—165)



1. An eye for a mannikin head such as is used in shop windows for display purposes, said eye comprising a horizontally elongated part of the surface of a sphere made of white sheet material and provided with small integrally formed upwardly and downwardly projecting attaching arms, each of said arms being sharply necked at the point of attachment to the eye in order to provide for movement of the eye relative to the arms to ensure close seating of the eye in the eye opening of the head.

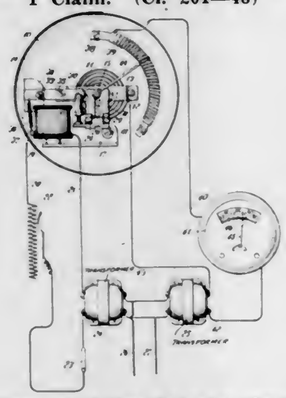
2,161,879

TEMPERATURE INDICATING MECHANISM

Carl W. Mayher, Chicago, Ill.

Application May 6, 1935, Serial No. 20,057

1 Claim. (Cl. 201—48)



In mechanism of the character described, the combination of a rotatable and slidably mounted spindle, a temperature responsive coil disposed about the spindle with one end fixedly secured while the other end is secured to said spindle whereby the latter is rotated by the contracting and expanding movements of said coil induced by changes in the temperature, said coil yieldingly holding said spindle against sliding movement, a conductor finger fixedly secured to the inner end of said spindle so as to move therewith, a resistance coil arranged in an electric circuit and disposed adjacent the path of the free end of said finger whereby said circuit is closed when said finger engages said resistance coil, a tiltably mounted arm arranged in operative relation with said spindle and adapted to slide said spindle inwardly and thereby move the finger carried by the spindle into contact with the resistance coil, an electro-magnet arranged in a normally open electric circuit, a spring controlled tiltable armature adapted to tilt against the action of its spring when said electro-magnet is energized, a post secured to said arm and provided with a beveled face arranged adjacent the path of said armature so as to be tilted laterally when the tiltable armature is attracted by said electro-magnet thereby causing said arm to tilt, said spindle to be slid inwardly and the finger mounted on the spindle to be forced into contact with the resistance coil.

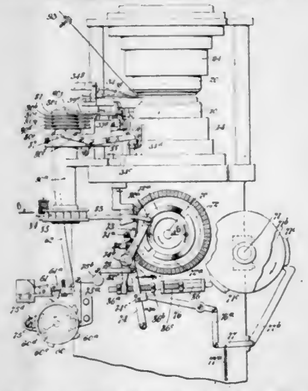
2,161,880

CIRCULAR KNITTING MACHINE

John H. Miller, Paul L. Thurston, and Lee W. Poole, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey

Application May 6, 1938, Serial No. 206,464

13 Claims. (Cl. 66—14)



1. In a knitting machine of the type employing coaxial superimposed knitting cylinders, separate cam rings therefor, means for establishing relative rotation and also relative reciprocation between the cylinders and cam rings, needles provided with hook and latch at each end, and a slider for each needle in each cylinder provided with cam engaging butts, means for transferring alternate needles from the lower cylinder to the upper cylinder, means for throwing the sliders of the needles in the upper cylinder out of operation with the knitting cam of the upper cam ring to hold stitches on the lower ends of said needles, thread feeding means for feeding body thread to the intervening needles in the lower cylinder and knitting a series of successive welt courses, elastic thread feeding means for winding an elastic thread around the fabric while supported by the needles in the upper cylinder, and a tension device for said elastic thread.

2,161,881

BEATER

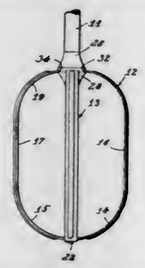
Paul John Musolf, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois

Application October 8, 1936, Serial No. 104,597

8 Claims. (Cl. 259—131)

1. The combination in a beater for household

mixers of a shaft, a beater blade comprising a metal strip attached substantially midway between its ends to the end of said shaft and bowed outwardly and upwardly along said shaft, the ends being bowed inwardly toward said shaft, and means for attaching the ends of said strip to the shaft comprising abutting ferrules on said



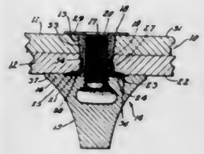
shaft, the ferrules sloping outwardly from the surface of the shaft at their opposed free edges in a smooth arcuate surface to the abutting edges whereby to provide a smooth outwardly flared attaching means for easy cleaning, one of said ferrules having slots along the abutting edges to receive and clamp the ends of said strip.

2,161,882
METHOD OF PREPARING VITAMIN CONCENTRATES
James A. Patch, Stoneham, Mass.
No Drawing. Application October 21, 1936, Serial No. 106,897
5 Claims. (Cl. 167—81)

1. The process of producing in concentrated form the therapeutically active substances of oils, fats and like vitamin-containing materials, which comprises adding to an aqueous-alcoholic saponified mass of a vitamin-containing material ether or the like volatile organic solvent which is immiscible with water, but partially miscible with the aqueous alcoholic-saponified mass to form therewith a true solution in which a more rapid transfer of the therepeutically active substance from the vitamin-containing material to the volatile organic solvent takes place than is possible in an emulsion, the organic solvent being added in an amount sufficient to dissolve the aqueous-alcoholic saponified mass and to produce a solution wherein the solvents are in balanced phase, subsequently adding water to said solution in an amount sufficient to upset said balanced phase of the solution thereby to effect a rapid separation of the organic solvent extract which contains the therapeutically active substances from the soap solution without necessitating prolonged settling or filtration, segregating the organic solvent extract, and evaporating said organic solvent.

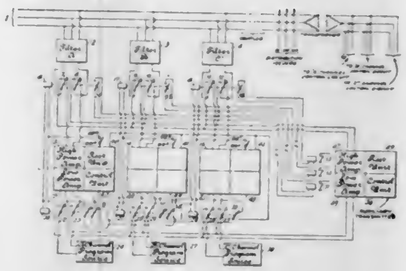
2,161,883
CALK DEVICE
Howard M. Pierce and John H. Hermson, Brooklyn, N. Y., assignors to A. G. Spalding & Bros., New York, N. Y., a corporation of New Jersey
Application June 13, 1938, Serial No. 213,428
12 Claims. (Cl. 36—59)

4. A calk device, comprising an internally threaded tubular member insertable in an aperture in a shoe sole; flange means on said tubular member at one end thereof; a calk having a threaded stem screwed in said tubular member; and a single means on said tubular member, cooperable with said flange means to secure said tubular member to said sole, and engageable with



said calk to grip and hold the latter against inadvertent unscrewing.

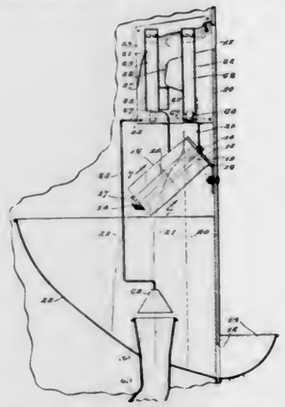
2,161,884
TRANSMISSION SUBSTITUTION SYSTEM
John C. Walter, Collingswood, N. J., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application October 3, 1936, Serial No. 103,922
7 Claims. (Cl. 179—15)



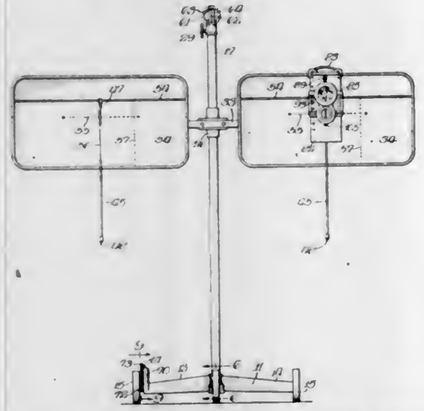
6. A transmission system comprising, a plurality of transmission circuits including load circuits of different frequency characteristics, high frequency amplification equipment in each of said circuits, auxiliary high frequency amplification equipment, controlling means appurtenant to each of said transmission circuits and responsive to a fault for producing a predetermined sequence of fault-testing operations, and transfer means responsive to said controlling means upon the completion of said testing operations for disabling said amplifier equipment in the transmission circuit in which the fault occurs, and automatically substituting said auxiliary equipment therefor, said transfer means cooperating with the controlling means of said transmission circuits to selectively substitute said auxiliary equipment in the one of said transmission circuits in which a fault occurs.

2,161,885
COIN SEPARATOR
Fred E. A. Wallin, Chicago, Ill., assignor to N. Marshall Seeburg
Application March 10, 1937, Serial No. 129,997
7 Claims. (Cl. 194—101)

1. A coin separator comprising opposed poles of permanent magnets defining a field which field occupies an elongated zone inclined to the vertical, said magnets defining a slot through which spurious coins and slugs may fall substantially undeflected, means for dropping coins freely through said zone in a direction generally transverse to its length, and separate means for collecting coins deflected to different amounts.

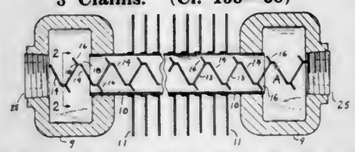


2,161,886
HEADLIGHT TESTER
Ira A. Weaver, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application August 31, 1936, Serial No. 98,730
2 Claims. (Cl. 88—14)



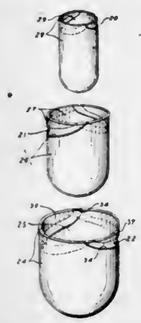
1. In an automobile headlamp-tester adapted to be positioned in front of the headlamps of the automobile to be examined, the combination of a support, a screen mounted on said support, the front face of such screen being adapted to reflect the light-rays played thereon by the illuminated headlamp, said screen having on its front face a horizontal reference-line and a vertical-reference line, said two lines intersecting on said screen, a manually-operated measuring-rod fulcrumed on said screen to swing in a vertical plane, releasable means for maintaining said rod projecting forwardly horizontally from the front face of said screen in register with said intersection, said rod when released falling into inoperative position, and means to adjust said screen and rod to register the latter with the headlamp.

2,161,887
TURBULENCE STRIP FOR RADIATOR TUBES
Walter R. Ramsaur, Racine, Wis., assignor to Young Radiator Company, Racine, Wis., a corporation of Wisconsin
Application January 7, 1938, Serial No. 183,740
3 Claims. (Cl. 138—38)



1. A device of the class described, comprising a radiator tube having therein a turbulence strip, said strip comprising alternately spaced wide and narrow rectangular in shape portions, the wide portions each having centrally positioned relatively large rectangular in shape openings, said strips having a zig-zag shape, the bends being positioned transversely to the strip and adjacent the ends of said narrow strips.

2,161,888
METHOD OF MAKING ELECTRICAL CONDENSER
Edward C. Rearick, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 8, 1937, Serial No. 178,637
6 Claims. (Cl. 175—41)



1. A method of making a plate assembly for an electrical condenser which method comprises the steps of applying a strip of combustible material upon two faces of a plate of dielectric material and over the rim between the two faces so as to define two areas each lying chiefly on one face of the dielectric plate but extending in part over the rim and a portion of the other face of the plate applying a coating of metalliferous material over the two faces of the plate and over the strip, and heating to destroy the strip by combustion.

2,161,889
MECHANICAL PENCIL
Max Schaefer, Bloomfield, N. J., assignor to Eagle Pencil Company, a corporation of Delaware
Application February 8, 1937, Serial No. 124,530
4 Claims. (Cl. 120—18)

1. A mechanical lead pencil comprising a casing, a helical feed tube rotatably mounted therein and extending substantially the length thereof and having a relatively steep feed track there-

along, lead propulsion means in said lead tube having wing means protruding into the slot thereof, said feed tube being crowned along the entire length thereof and a brake clutch member embracing said feed tube at an intermediate



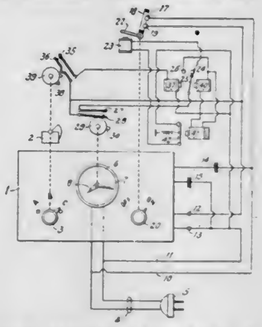
portion of the length thereof and engaging said casing, whereby in operation the wing means riding in said track will move toward and along the length of said brake member free from conflict therewith.

2,161,890

TIMED WIRED RADIO RECEIVER

Gordon Brown Scheibell, Maplewood, N. J., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware

Application September 25, 1937, Serial No. 165,628
4 Claims. (Cl. 250—20.41)



1. A control system comprising, a radio set having a movable tuning device therein, a periodically operating de-energizer for said set, and means set in operation by movement of said tuning device for automatically delaying operation of said de-energizer for at least one period thereof after movement of said tuning device.

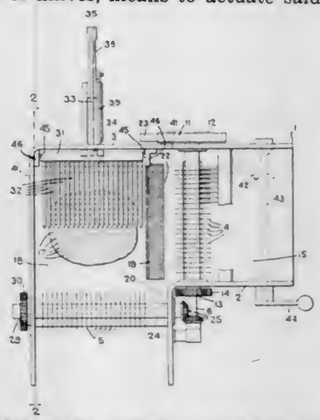
2,161,891

MACHINE FOR DICING VEGETABLES, FRUIT, MEAT, ETC.

Joseph P. Spang, Quincy, Mass.

Original application March 26, 1937, Serial No. 133,173. Divided and this application December 29, 1937, Serial No. 182,229
5 Claims. (Cl. 146—78)

1. A machine for dicing vegetables and meat comprising a feed roll having peripheral grooves, a set of rotary knives dipping into said grooves, a second feed roll also having peripheral grooves, a second set of rotary knives dipping into said grooves, said latter second feed roll and second set of knives being situated at right angles to the first feed roll and first set of knives, means to rotate the feed rolls and knives, a platform to receive material from the first set of knives which material then is in strip form with the strips extending parallel to the axis of the second set of knives, a combined pusher and hold-down movable over the platform toward and from the second set of knives, means to actuate said pusher



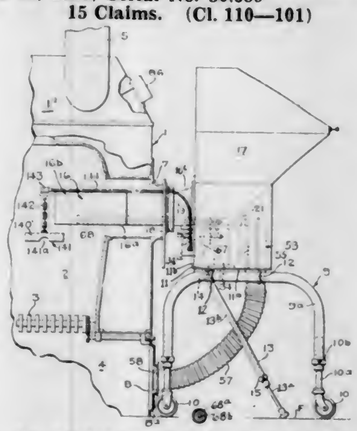
and hold-down to feed the material in strip form from the platform to the second feed roll and knives with the strips extending parallel to the axes of the knives and to hold the material on the platform as it is fed thereover, and means operating automatically to raise the hold-down from the platform as the pusher reaches the end of its backward stroke and to automatically lower the hold-down onto the material as the pusher starts its forward stroke.

2,161,892

FEEDING MECHANISM

Merrill G. Benjamin, Alhambra, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Original application April 6, 1932, Serial No. 603,653. Divided and this application November 20, 1935, Serial No. 50,689
15 Claims. (Cl. 110—101)



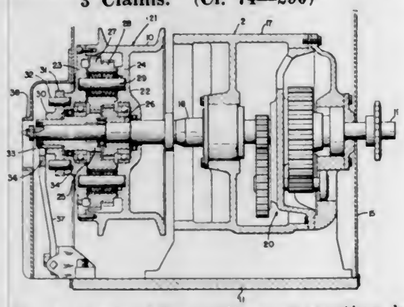
10. An apparatus of the class described, the combination with a furnace, of a spout extending into the combustion chamber of said furnace, a motor, means driven by said motor for feeding fuel through said spout, a passage for delivering air into said spout, means driven by said motor for supplying air to said passage, and control means for said motor including a thermostat located in said spout, and responsive to the conjoint action of the heat of said furnace and said delivered air.

2,161,893

POWER DRIVE UNIT

Leonard J. Bishop, Detroit, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan

Application May 10, 1937, Serial No. 141,846
3 Claims. (Cl. 74—290)



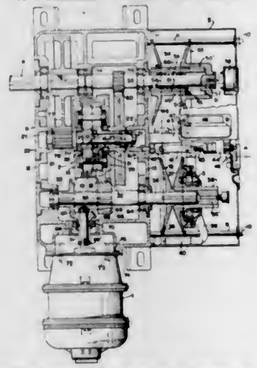
1. In a power drive unit, a supporting base and an arm thereon, a prime mover upon said base having a rotatable shaft, a gear reduction device upon said base having rotatable drive and driven shafts, a gear reduction pulley upon said drive shaft comprising a rotatable pulley frame, a driven gear connected to said drive shaft, a drive gear in axial alignment with said driven gear, gears carried by and movable in unison with said frame and rotatable as a unit about their axes, said carried gears meshing with said drive and driven gears, and adjustable means for alternatively connecting said drive gear to said frame to rotate in unison therewith and to said arm to hold said drive gear from rotation, and variable speed belt drive means for driving said frame from said shaft of said prime mover.

2,161,894

DRIVE UNIT

Leonard J. Bishop, Detroit, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan

Application May 10, 1937, Serial No. 141,847
2 Claims. (Cl. 74—286)



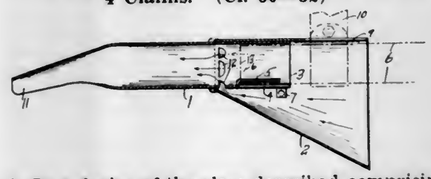
1. In a drive unit, a prime mover, a power take-off shaft, a variable speed change mechanism including variable speed belt gearing and epicyclic gearing connected thereto, said speed change mechanism being interposed between and connecting said prime mover and said take-off shaft, and a housing comprising an intermediate section carrying said prime mover, said change speed mechanism and power take-off shaft and through a wall of which said power take-off shaft extends, said housing also comprising interchangeable sections at opposite ends of and closing said intermediate section, the sides of said intermediate section being symmetrical with respect to said power take-off shaft and adapted to be inverted to provide for locating said power take-off shaft at either of opposite sides of said housing.

2,161,895

EXHAUST SCAVENGER

Tod Brenner, Youngstown, Ohio

Application June 25, 1937, Serial No. 150,280
4 Claims. (Cl. 60—32)



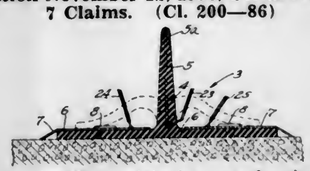
1. In a device of the class described comprising a tubular body portion having a slot therein, and means for holding said body portion on an exhaust pipe, in combination with a funnel shaped body member attached to said tubular body portion, a slot in said funnel shaped body member to permit installation over a bracket on said exhaust pipe, a series of jets formed in said tubular body portion, the said jets adapted to inject air under pressure into the said body portion so as to cause a rapid flow of the air and the contents of the said body portion from the device, an upturned inner end and flange adjacent to said jets adapted to determine the position of the device upon an exhaust pipe so that the jets become positioned just past the end of the said exhaust pipe substantially as described for the purpose set forth.

2,161,896

TRAFFIC REGISTERING MECHANISM

Curtis D. Cutler, Delaware, Ohio, assignor to Automatic Traffic Counter Company, Inc., Columbus, Ohio, a corporation of Ohio

Application November 12, 1936, Serial No. 110,504
7 Claims. (Cl. 200—86)



1. In a traffic registering mechanism, a vehicle actuated switch comprising an inverted T-shaped rubber strip, spaced stationary metallic strips carried by the base portion of said T-shaped strip, and a movable contact strip secured to the vertical portion of said T-shaped strip adjacent the upper end thereof.

2,161,897

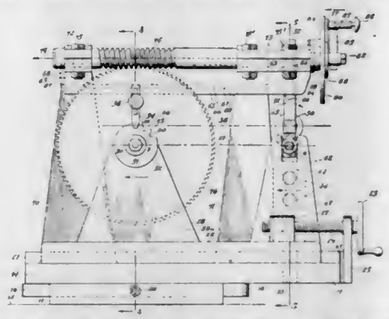
UNIVERSAL GEAR CUTTER

Alfred W. Klomp, Detroit, Mich.

Application May 29, 1937, Serial No. 145,596
10 Claims. (Cl. 90—9)

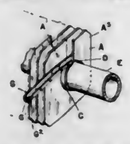
1. A gear cutter comprising: a base; a slide

movably arranged on said base; a mandrel rotatably mounted on said slide and adapted to hold a work piece; a cutting tool adapted to be reciprocated relatively to said base; a rock pivot pivoted on said base; means for actuating said rock pivot



in accordance with the movement of the slide; a worm wheel arranged on said mandrel; a worm engaging said worm wheel; and means for moving said worm longitudinally in accordance with the movement of the rock pivot.

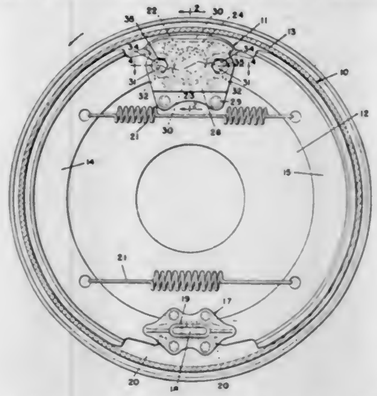
2,161,898
FINNED TUBE AND METHOD FOR FORMING THE SAME
Elmer E. Ledbetter, Dearborn, Mich.
Application October 7, 1935, Serial No. 43,941
5 Claims. (Cl. 113—118)



1. The method of manufacturing finned tubes comprising the forming of a series of fins from sheet metal, each fin having a central aperture with a laterally extending flange surrounding the same and being split radially through both fin and flange, mounting a series of fins upon the tube with the portions upon opposite sides of the split in each fin laterally deflected, and spirally winding a binding strip around said tube and the laterally extending flanges of the fins, said strip being tensioned to press said flanges in firm contact with the outer surface of the tube and passing successively through the radial splits of one fin into engagement with an adjacent fin.

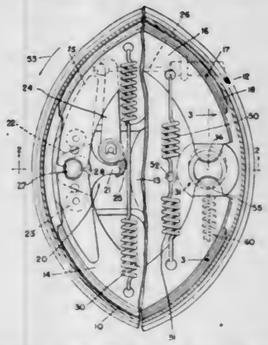
2,161,899
BRAKE MECHANISM
Frank L. Main, Birmingham, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application June 29, 1936, Serial No. 88,003
9 Claims. (Cl. 188—78)

1. In a brake mechanism, the combination with a brake drum, a backing plate, brake friction means within the drum and having spaced ends, of a rockshaft supported on said backing plate for rocking movement about an axis extending substantially parallel to the axis of the drum and having an enlarged head at one end extending into the drum between the spaced ends of the friction means, a cam member located in a recess extending transversely of the head and having the opposite ends extending beyond the sides of the head for engagement with the spaced ends of the friction means, a lever pivotally supported on the backing plate exteriorly of the drum for swinging movement about an axis substantially



perpendicular to the axis of the rockshaft, and means on the rockshaft engageable with the lever intermediate the ends thereof for rocking said shaft upon swinging movement of the lever in one direction.

2,161,900
BRAKE MECHANISM
Frank L. Main, Birmingham, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Michigan
Application July 26, 1937, Serial No. 155,804
12 Claims. (Cl. 188—79.5)



1. In brake mechanism, a brake drum rotatable in opposite directions, brake friction means supported within the drum for shifting movement relative to the drum in both directions of rotation of said drum and having spaced ends, a bracket member having a portion generally disposed between the ends of the friction means and supported in the released position of the friction means for shifting movement with the friction means in one direction circumferentially of the drum, and means slidably mounted on the bracket between the ends of the friction means for moving the latter outwardly relative to the drum including an element supported in the released position of the friction means for shifting movement with the latter circumferentially of the drum relative to the bracket member in a direction opposite the direction of shifting movement aforesaid of the bracket.

2,161,901
BROACH
Walter S. Praeg, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application April 26, 1937, Serial No. 139,082
15 Claims. (Cl. 29—95.1)



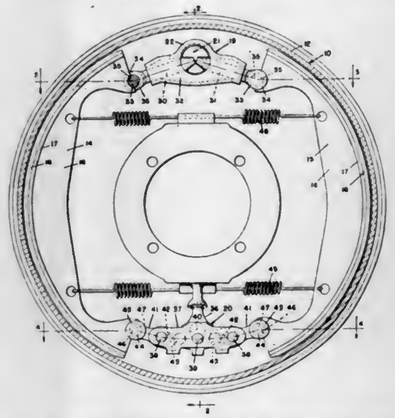
1. A broach for cutting a spiral spline adapted to establish and maintain spiral guiding action solely by the engagement of said broach with the work piece, said broach having consecutive series of teeth arranged in a spiral row from end to end, the first series of said teeth having a substantially reduced pitch, whereby a plurality of teeth will come into engagement with the work and establish accurate spiral guiding action upon a correspondingly reduced length of travel of said broach relative to said work piece, said first series of teeth being of a width less than the final width of the spline, the next series of teeth being of full spline width, and increasing in height to the height of said last tooth of said first series.

2,161,902
RUBBER SHOE WELTING
Albert Chester Riley, Melrose, Mass., assignor to Cambridge Rubber Co., Cambridge, Mass., a corporation of Massachusetts
Application December 13, 1937, Serial No. 179,406
2 Claims. (Cl. 36—78)



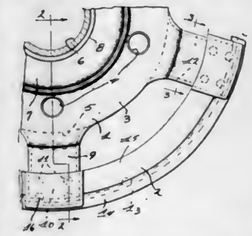
1. A shoe welt comprising a strip of welt material provided with integral raised elements extending longitudinally thereof and so shaped and arranged as to simulate a line of stitching, the tops of said raised elements being of a color contrasting with that of the upper surface of the strip.

2,161,903
BRAKE MECHANISM
Charles A. Sawtelle, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application June 15, 1936, Serial No. 85,395
3 Claims. (Cl. 188—78)



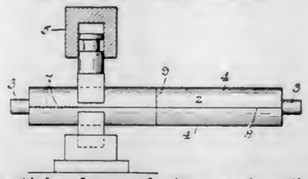
1. In a brake mechanism, a brake drum having a brake flange, brake friction means within the drum engageable with the flange including shoes having the adjacent ends spaced from each other circumferentially of the drum substantially equal distances, an adjustment anchor device for the shoes located between the ends at one side of the drum and connected to the latter ends of the shoes, and an actuator supported between the opposite ends of the shoes and connected to the latter ends for moving the shoes into engagement with the brake flange, the ends of the shoes connected to the actuator being identical in construction to the ends of the shoes connected to the adjustment anchor device for permit interchanging the shoes end for end.

2,161,904
BRAKE DRUM
Charles W. Sinclair, Detroit, Mich., assignor, by mesne assignments, to The Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application August 3, 1931, Serial No. 554,810
9 Claims. (Cl. 188—218)



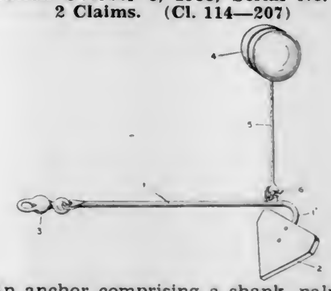
1. A brake drum, comprising a web having spoke portions with oppositely extending transverse flanges projecting axially of the drum from the side edges of the spokes and anchoring portions at their outer ends, and an annular brake engaging member fixedly secured to said anchoring portions and caried by said web.

2,161,905
METAL COATED ROLLER
Charles G. Watson, Youngstown, Ohio
Application May 6, 1936, Serial No. 78,139
2 Claims. (Cl. 29—182)



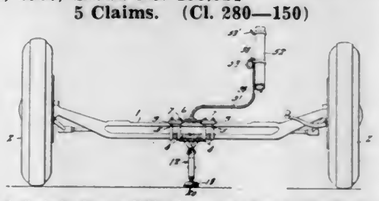
1. An article of manufacture as described comprising a body of metal in cylindrical form, and a sheet of metal mounted circumferentially of said body covering an axial length thereof and uniformly in intimate contact therewith; said covering sheet being characterized by a plurality of seams of weld metal therein, formed axially of said body, and so disposed that the cooling contraction of the weld metal in said seams draws oppositely on the portion of said sheet between two of said seams whereby such portion is held in intimate contact with said roll.

2,161,906
MARINE ANCHOR
Carlton W. Filby, Jefferson, Ohio
Application October 8, 1938, Serial No. 233,968
2 Claims. (Cl. 114—207)



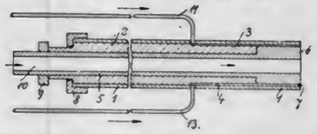
1. An anchor comprising a shank, palm, float and means pivotally connecting said float to said shank near said palm, the length of said means being no greater than the length of the shank, whereby the float will normally be submerged when in use.

2,161,907
DEVICE FOR FACILITATING THE TURNING OF STEERING WHEELS
John L. Barr, Chevy Chase, Md., and Marion M. Overman, Washington, D. C.; said Overman assignor to said Barr
Original application May 10, 1935, Serial No. 20,862. Divided and this application August 11, 1937, Serial No. 158,614
5 Claims. (Cl. 280—150)



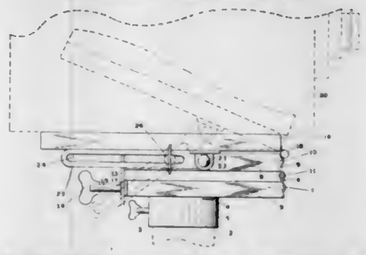
2. A latch for a lift element for a vehicle comprising a pivoted catch adapted to engage the lift element, a pivoted trip for moving the catch, a connection to move the element, means on the connection to engage the trip, and an off-center spring controlled means to urge the trip into either its on or off position.

2,161,908
METHOD OF AND APPARATUS FOR MAKING ARTIFICIAL SAUSAGE CASINGS
Oskar Walter Becker, Hamburg, Germany, assignor, by mesne assignments, to Naturin Gesellschaft mit beschränkter Haftung, Weinheim, Germany
Application August 3, 1931, Serial No. 554,919
In Germany August 7, 1930
12 Claims. (Cl. 18—14)



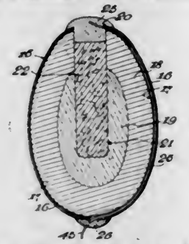
1. Apparatus for making sausage casings of animal or vegetable material from a plastic kneadable mass by expressing it through annular nozzles, comprising in combination a tubular housing, a cylindrical core rotatable within said housing, said core formed with a forward part spaced from the said housing and forming an annular chamber therewith, a stationary inner core arranged within said first mentioned core, said stationary core projecting beyond the said first mentioned core and forming between it and the housing an annular chamber forming a continuation of the first mentioned annular chamber and supply tubes for the kneadable mass extending into said first mentioned annular chamber on the rotating part of the outer core for the purpose of introducing the plastic mass into said annular chamber.

2,161,909
ADJUSTABLE TRIPOD TOP
Carl Bornmann, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
Application March 10, 1937, Serial No. 130,138
6 Claims. (Cl. 248—184)



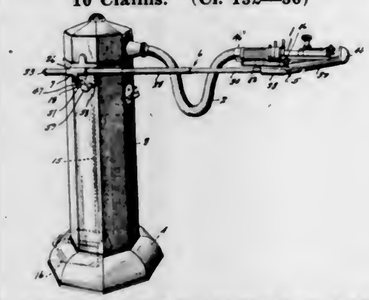
5. A tripod top comprising a member adapted for engagement with a tripod, a plate rigidly secured to said member, a second plate pivoted to said first plate above and in spaced relation thereto, said second plate being tiltable on its pivots, an element engaging said upper plate at one side of the pivot thereof, said element having engagement with said lower plate and being provided with a device for locking said upper plate in its tilted positions, a supporting platen hinged to said upper plate, said tilting element and said locking device comprising an arm pivoted to said upper plate and having a slot therein extending past said lower plate, and a locking screw on said lower plate passing through the slotted arm and having means for binding said arm to said lower plate.

2,161,910
ARTICLE OF FOOD
Francis Henry Callahan, New Haven, Conn.
Application February 26, 1937, Serial No. 127,999
Renewed November 8, 1938
3 Claims. (Cl. 99—113)



3. A method of providing a fowl egg with a flexible though somewhat stiff shelling strip, comprising the steps of forming an opening through an end of the egg shell, inserting said strip into said opening and guiding it along the inner side of the shell to the other end of the latter, and sealing said opening around said strip.

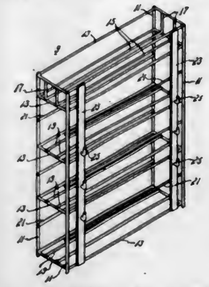
2,161,911
SUPPORTING DEVICE
Fernan O. Conill, New York, N. Y.
Application January 8, 1937, Serial No. 119,697
10 Claims. (Cl. 132—36)



10. In an apparatus for waving hair, a housing, a waving mechanism, a support for said waving mechanism, an extensible arm for the support, said arm being pivotally mounted on the housing and spring actuated means provided on the pivot to hold the arm in at least two different positions.

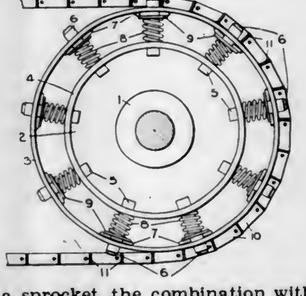
2,161,912
REFRIGERATING APPARATUS
Hursle E. Cossin, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application October 2, 1937, Serial No. 166,954
1 Claim. (Cl. 211—143)

In a rack for refrigerators the combination of a wire frame including four vertically extending wire corner members, open work shelf members vertically spaced between and secured to said wire corner members, two horizontally positioned wire members cooperating with each of said wire corner members and being vertically spaced in parallel relation adjacent the upper ends of said corner members and secured thereto, a plurality of U-shaped wire members having longitudinally extending portions arranged on a horizontal plane and extending from one end of the rack to the other and vertically extending portions between and cooperating with said two horizontally



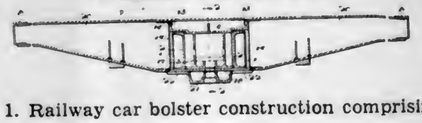
positioned wire members to provide a basketlike shelf for storing small food articles and a pair of side bars secured vertically to certain of said shelves to provide a rigid open work construction and having provisions for receiving and supporting additional shelf structures.

2,161,913
SPROCKET
James Bernard Doyle, Simcoe, Ontario, Canada, assignor to Canner's Machinery Limited, Hamilton, Ontario, Canada, a company of Ontario, Canada
Application October 28, 1938, Serial No. 237,522
2 Claims. (Cl. 74—244)



2. In a sprocket, the combination with its rim and a concentric flange disposed within said rim, of radially disposed spaced apart pins extending freely through the rim and flange with their outer ends normally protruding outwardly beyond such rim, an abutment on each pin located on the portion thereof between the rim and the flange, and a spiral spring on each pin located between the abutment and the flange.

2,161,914
CAR CONSTRUCTION
Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware
Application September 15, 1937, Serial No. 164,050
5 Claims. (Cl. 105—226)



1. Railway car bolster construction comprising

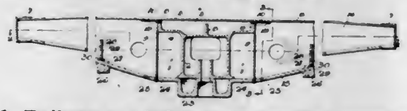
a center brace casting the upper part of which is provided with outer vertical webs and an intermediate vertical web extending transversely of the car body, and a bolster cover plate extending transversely of the car body and supported on said webs, said plate having a transverse slot into which a portion of said intermediate web projects, said outer webs being welded to the under side of said plate and said intermediate web being welded in said slot.

2,161,915

CAR CONSTRUCTION

Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware

Application November 22, 1937, Serial No. 175,924
7 Claims. (Cl. 105—226)



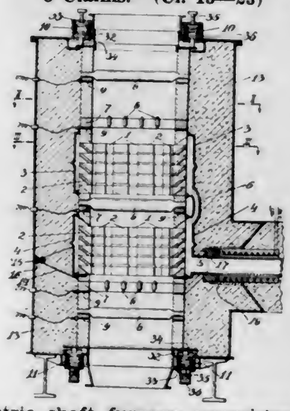
1. Railway car bolster construction comprising a center structure including a center brace and a center plate and having an intermediate portion of reduced width to provide openings for passage of movable elements through the bolster, a top cover plate welded to said center structure and extending laterally on each side thereof, and bottom cover plate and diaphragm structure comprising U-shaped elements substantially abutting and welded to said center structure and extending laterally one on each side thereof, the bottoms of said U-shaped elements forming parts of the bottom cover plate and the sides abutting and being welded to said top cover plate to form substantially vertical diaphragms.

2,161,916

ELECTRIC SHAFT FURNACE

Konrad Erdmann, Radenthein, Austria, assignor to American Magnesium Metals Corporation, Pittsburgh, Pa.

Application December 29, 1936, Serial No. 118,078
In Austria January 10, 1936
8 Claims. (Cl. 13—23)



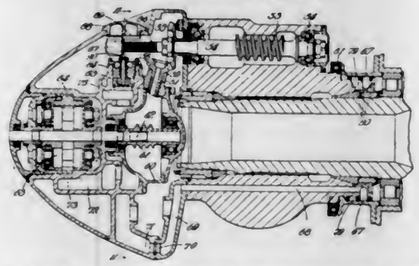
1. Electric shaft furnace comprising a shaft provided at the distillation zone with series of individual apertures discharging the distillation products in the form of vapor, and a common chamber surrounding the shaft in which the distillation products pass through the apertures, which chamber opens into a condenser, and springs acting upon the top and bottom of said shaft to apply longitudinal compression forces thereto.

2,161,917

MEANS FOR VARYING THE PITCH OF PROPELLER BLADES, ESPECIALLY AIRCRAFT PROPELLER BLADES

Archibald Graham Forsyth and George James Smith-Pert, Cheam, England, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England

Application November 24, 1937, Serial No. 176,372
In Great Britain May 24, 1937
3 Claims. (Cl. 170—163)



1. A variable pitch propeller comprising a hub, a reversible fluid operated motor mounted on said hub, propeller blades having roots rotatable in said hub, means including shafts driven by said motor in opposite directions for rotating said blade roots, a fluid system conveying oil to and from said motor, said system including an oil pump driven by the aircraft engine and including a manually adjustable valve responsive to engine speed for regulating the pump outlet within predetermined manually adjusted limits and a pair of valves controlling the flow of oil to and from the motor for rotating said motor in opposite directions, screw threaded extensions on two of said shafts and nuts on said extensions for acting on said valves, keys fixed relatively to said nuts, each of said nuts being formed with an odd number of teeth between any two of which one of said keys may be engaged, that tooth which is diametrically opposite to the key being adapted to cooperate with the stem of one of said valves.

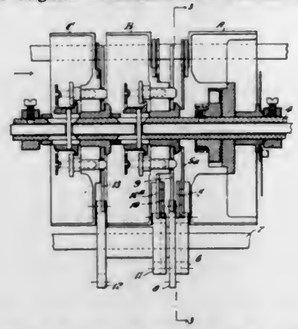
2,161,918

IMPROVEMENTS RELATING TO REGISTERING MECHANISMS

John Fraser, London, England, assignor to Avery-Hardoll Limited, London, England

Application June 26, 1937, Serial No. 150,634
In Great Britain July 10, 1936
1 Claim. (Cl. 235—139)

A registering mechanism comprising the combination of a plurality of revoluble indicators, a toothed plate carried by each of said indicators except that of the highest denomination and constituting an interrupted toothed gear for each indicator, said plate being set so that it will take up the drive slightly in advance of the position at which the toothed gearings would be set to take up the drive in a normal interrupted toothed registering mechanism, and gearing for transmitting movement from each toothed plate to the indicator of succeeding higher denomination said gearing being such that an indicator of higher denomination is turned at a faster rate than the preceding indicator of lower denomination, the faster rate of rotation of the succeeding indicators of higher denomination in conjunction with the advanced setting of the toothed plates ensuring that a succeeding indicator of higher denomination assumes the full



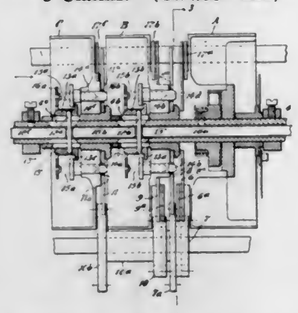
indicating position whenever the indicator of lower denomination has made a complete revolution regardless of any backlash in the gearing which may be present.

2,161,919

IMPROVEMENTS RELATING TO REGISTERING MECHANISMS

John Fraser, London, England, assignor to Avery-Hardoll Limited, London, England

Application June 26, 1937, Serial No. 150,635
In Great Britain July 10, 1936
5 Claims. (Cl. 235—144)



1. A registering mechanism incorporating a plurality of drums, interrupted toothed gearing and complementary driving gears for connecting the drums in driving relationship whereby the drum of a higher denomination is driven from the preceding drum of lower denomination, a displaceable means for connecting the drums to the respective driving gears, and means for introducing frictional resistance when the aforesaid displaceable means has been actuated to disconnect the drums from the respective driving gears thereby placing the drums in a condition for being returned to the zero position.

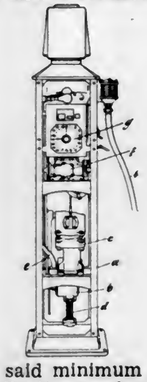
2,161,920

LIQUID MEASURING AND DISPENSING APPARATUS

John Fraser, London, England, assignor to Avery-Hardoll Limited, London, England

Application July 6, 1937, Serial No. 152,128
In Great Britain July 10, 1936
10 Claims. (Cl. 221—95)

1. Liquid measuring and dispensing apparatus of the flow meter type embodying an automatic indicating mechanism, a means under the immediate physical control of the operator for controlling the rate of flow of delivery, a flow valve located in the line of flow which is maintained in the open position solely by the flow when delivery is taking place at a rate of flow above a predetermined minimum but obstructs the flow when the rate of flow is reduced by the operator



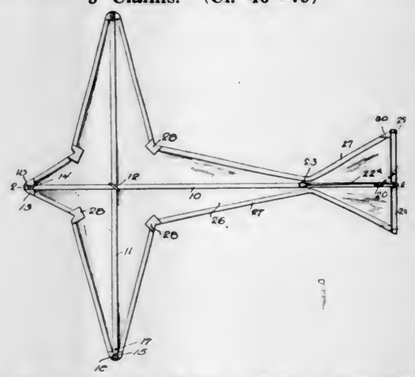
to or below the said minimum and means controlled by the indicating mechanism for preventing the cutting off of the flow through the agency of the flow valve when delivery is proceeding at or below the aforesaid minimum rate of flow and for automatically causing a cessation of delivery at a predetermined position of the indicating mechanism subsequent to the reduction in the rate of flow.

2,161,921

AIRPLANE GLIDER

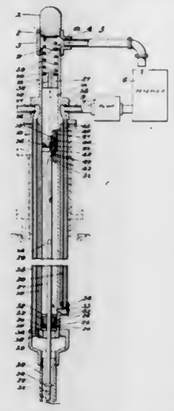
Carl Fritzen, Seymour, Ind.

Application March 31, 1938, Serial No. 199,237
5 Claims. (Cl. 46—79)



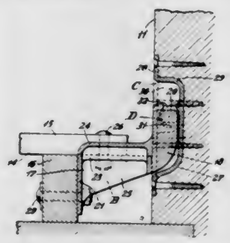
1. In an airplane glider, a girder, a wing brace extending crosswise thereof and secured thereto at the intersection, a plate adjustably secured to the front of the girder, plates adjustably secured to the ends of the wing brace, a cross-piece adjustable in the rear end of the girder, a sheet of paper forming the plane covering the space outlined by the girder, wing brace and cross-piece, the said paper being folded on itself at the edges to form beads, reinforcing strips on the beads, a fin post in the girder having a cap, a string threaded over the cap, an elastic element connecting one end of the string to the girder, and means for attaching the other end of the string at the end of the girder.

2,161,922
HYDRAULIC PUMP JACK OR HEAD
Ronald B. Goode, Shreveport, La.
Application April 15, 1936, Serial No. 74,563
4 Claims. (Cl. 121—123)



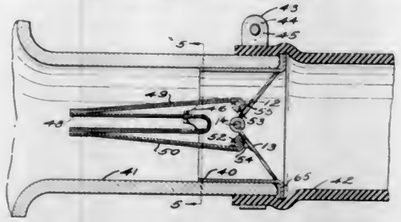
1. A motor which has a cylinder, an inner working assemblage consisting of a piston in the cylinder, having a piston rod extending downwardly, means on the piston to enable the removal of said piston, upper and lower cylinder heads, the upper head being removable, the lower head being loosely seated in the bottom of the cylinder, and a projection of the piston rod below the lower head engageable with said head to pull it out with the assemblage when said piston is removed.

2,161,923
FLOOR RACK
Stacy B. Haseltine, Glen Ellyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application November 6, 1936, Serial No. 109,509
10 Claims. (Cl. 105—375)



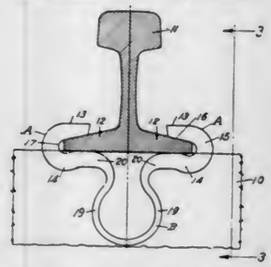
4. In a refrigerator car having a horizontal floor and a vertical side wall, the combination with a removable floor rack adapted to overlie said floor; of cooperating hinge members on said floor rack and car, the hinge members on said car being completely sunk into said side wall; and means for detachably connecting said cooperating hinge members, including pivot pin means on one of said cooperating members and a pivot seat on the other of said members, said pin means and pivot seat being offset above the plane of the rack when in overlying relation to the floor, said pivot seat being open at one side to admit said pivot pin means.

2,161,924
THERMOSTATIC VALVE
Julius F. Jack, Newark, N. J.
Application March 9, 1935, Serial No. 10,262
10 Claims. (Cl. 236—34)



1. In a valve, a tubular casing for a flowing fluid, a pair of wings pivoted in said casing, normally complementarily substantially closing said casing and controlling the flow of fluid therethrough, and a plurality of bimetallic strips symmetrically arranged in said casing and forming a W operatively connecting said wings, and controlling the opening and closing movement thereof.

2,161,925
RAIL ANCHOR
George A. Johnson, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application November 23, 1936, Serial No. 112,271
12 Claims. (Cl. 238—327)

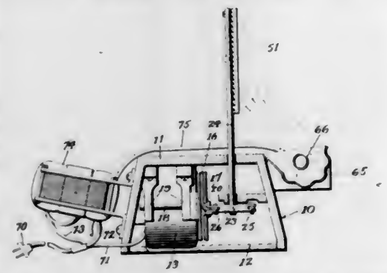


1. In a rail anchor, the combination with transversely opposed rigid jaws adapted to respectively engage with the opposed base flanges of a rail; of a tie engaging leaf spring member rigidly fixed to and permanently connecting said jaws, said tie engaging leaf spring member being of lesser thickness than the material of said jaws to provide a sensitive resilient yieldable connection to permit ready relative adjustment of the jaws with respect to each other lengthwise of the rail.

2,161,926
METHOD OF MANUFACTURING PERMANENT MAGNETS
Gottfried Bruno Jonas, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
No Drawing. Application February 10, 1936, Serial No. 63,237. In Germany March 4, 1935
1 Claim. (Cl. 148—21.5)

In the manufacture of permanent magnet bodies from an alloy steel containing 10 to 30% Ni, 3 to 15% Ti, 2 to 13½% Al, 4½ to 30% Co, and the remainder substantially iron, the steps of drastically quenching the magnet body in a suitable bath from a temperature between 1,000° C. and 1,300° C. only to a temperature between 550° C. and 750° C., slowly cooling the body from the temperature of the bath to room temperature, aging the body at a temperature between 650° C. to 680° C., and cooling the body to room temperature.

2,161,927
SCINTILLATING SIGN
Wallace G. McIlvanie, Yakima, Wash.
Application May 7, 1938, Serial No. 206,668
5 Claims. (Cl. 40—139)

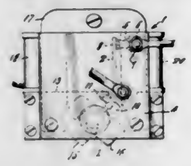


4. A scintillating sign comprising a base, a plurality of reflecting members arranged on said base to form indicia, means projecting light rays on said members, and means for rocking certain of the reflecting members in one direction while rocking the remaining reflecting members in the opposite direction.

2,161,928
HYDANTOINS CONTAINING THE STEROL NUCLEUS
Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application December 7, 1937, Serial No. 178,615. In Switzerland December 24, 1936
7 Claims. (Cl. 260—309)

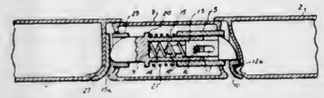
1. The cyclopentano-polyhydrophenanthrenes which are substituted with spiro-hydantoin in a position selected from the group consisting of the 3-, 17- and 3:17- positions.

2,161,929
SLIP FREQUENCY RELAY
Frank H. Milliken, Mansfield, Ohio, assignor to The Ideal Electric and Manufacturing Company, Mansfield, Ohio, a corporation of Ohio
Original application November 15, 1934, Serial No. 753,213, now Patent No. 2,104,664, dated January 4, 1938. Divided and this application April 1, 1935, Serial No. 14,155
7 Claims. (Cl. 200—98)



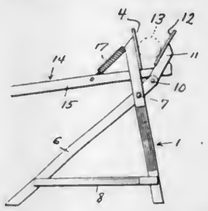
1. A circuit making and breaking relay comprising a shaft, a pair of armatures thereon angularly displaced from each other, a U-shaped magnetic core positioned to act on one of the armatures, a coil mounted on one of the legs of the core to set up a magnetic field therein, a second U-shaped magnetic core parallel to the first mentioned core positioned to act on the other armature, a second coil mounted on the opposite leg of the second mentioned core to set up a magnetic field therein and contact members whose relative position is controlled by the shaft.

2,161,930
AUTOMATIC SAFETY LATCH FOR VEHICLE DOORS
Everett B. Niswonger and Herbert E. Patchell, Oak Hill, W. Va., assignors of one-third to William E. Kreitzer, Dayton, Ohio
Application April 10, 1937, Serial No. 136,113
2 Claims. (Cl. 292—182)



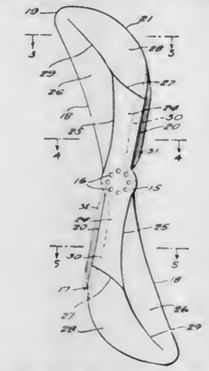
2. A latch for association with a door on each side of a jamb and free to open outwardly therefrom, said latch adapted for cooperation with a ledge on one door, and comprising a casing in said jamb opposite said ledge, a latch bolt movable in said casing, a spring for moving said latch bolt out of the casing over the ledge on said door to hold it in a closed position, a casing in the other side of said jamb opposite the first casing, a plunger in said second casing, a spring for forcing said plunger outwardly into the path of closing movement of the second door, said plunger formed with a hollow rear end having a sliding fit in the first casing to receive the first spring, and a pin and slot connection between the rear end of the plunger and the latch bolt, said plunger adapted, through the first spring, to move the latch bolt over the ledge on the first door when the front end of said plunger is engaged by the second door during the closing movement of the latter.

2,161,931
CAN CRUSHER
Paul M. Pattison, New Castle, Pa.
Application May 14, 1938, Serial No. 208,076
3 Claims. (Cl. 153—10)



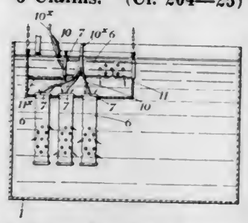
1. A can crusher comprising a stand including pairs of crossed, connected legs, a stationary jaw mounted on the upper end portions of one of the pairs of legs, a pair of arms mounted for swinging movement on the upper end portions of the other pair of legs, a jaw mounted on said arms and adapted for coaction with the stationary jaw for crushing a can therebetween, and a foot lever operatively connected to the movable jaw for actuating same.

2,161,932
PROPELLER
Per A. Peterson, New York, N. Y.
Application September 29, 1937, Serial No. 166,308
5 Claims. (Cl. 170—159)



1. A propeller having helical blades the trailing edges grooved longitudinally.

2,161,933
ELECTRICAL TREATMENT OF WATER FOR THE PURPOSE OF REDUCING HARDNESS
Albert John Pierpoint and Reginald Henry Crouch, London, England
Application October 14, 1935, Serial No. 44,989
In Great Britain October 15, 1934
6 Claims. (Cl. 204—25)



1. In apparatus for the electrical treatment of water, an electrode element comprising a cylindrical body having perforations for the outlet of water, a closing upper cap therefor having perforations for the inlet of water, an electrode in the cylindrical body, means in the cylindrical body for supporting the electrode to prevent displacement thereof, a conductor projecting through said cap for connecting the electrode to a current supply, means for supplying water through the perforations in said closing cap, a second electrode separate from said electrode element with which the water is in contact, and a conductor connecting said second electrode to a current supply.

2,161,934
RUBBER COMPOSITIONS
Willis E. Reichard, Elyria, and Robert R. Olin, Akron, Ohio, assignors to The Worthington Ball Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Application December 18, 1937, Serial No. 180,550
11 Claims. (Cl. 230—3)

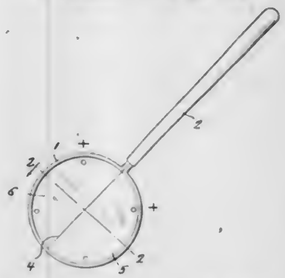
1. An improved composition of material comprising as principal constituents, rubber, balata, a synthetic resin formed by polymerization of vinyl acetate, and a synthetic resin formed by the co-polymerization of vinyl acetate and vinyl chloride, and the vinyl acetate resin constituting 20% or less of the total amount of resin.

2,161,935
COMBINED CARRYING AND POURING APPLIANCE FOR THERMOS BOTTLES AND THE LIKE
Inez Mae Roberts, Rapid City, S. Dak.
Application April 5, 1938, Serial No. 200,229
7 Claims. (Cl. 215—12)



7. In combination with a thermos bottle or the like having a pouring outlet, a flexible spring handle for said thermos bottle fixed at one end with reference to the pouring outlet, its free end being adapted to be releasably secured in one of two positions, on opposite sides of the pouring outlet, one for carrying purposes and the other for pouring the contents from the receptacle, and means near the bottom of the bottle below the fixed connection, for releasably securing the free end of the handle when in pouring position, and means near the top of the bottle on the opposite side of the pouring outlet from the first named means, for releasably securing the free end of the handle when in carrying position.

2,161,936
EYE TESTING DEVICE
Clarence K. Schubert, Madison, Wis.
Application September 12, 1936, Serial No. 100,553
2 Claims. (Cl. 88—20)



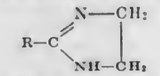
1. A cross cylinder of the character described, said cross cylinder comprising a transparent circular body, a frame on said body and including a handle projecting radially therefrom and aligned with a diameter of said body, said body being formed on opposite sides of said diameter with cross cylinder lens portions, said lens portions having plus and minus areas, with the plus areas arranged adjacent to each other and the minus areas arranged adjacent to each other.

2,161,937
SULPHATED A,A'-DIALKYL GLYCERINE ETHERS AND PROCESS FOR PREPARING THEM
Norman D. Scott, Sanborn, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 13, 1938, Serial No. 184,899
8 Claims. (Cl. 260—458)

5. A surface active compound of the group consisting of the acid and water-soluble salt forms of beta sulfated a,a'-dialkyl glycerine ethers having not more than twenty-five carbon atoms in the molecule.

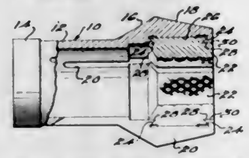
2,161,938
IMIDAZOLINES
Adolf Sonn, Konigsberg, Germany, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application February 25, 1938, Serial No. 192,645. In Germany July 31, 1934
4 Claims. (Cl. 260—309)

1. The compounds of the formula



wherein R stands for a member of the group consisting of substituted and unsubstituted phenylmethyl, naphthylmethyl and quinoline-C-methyl radicals, the substituent being a member of the group consisting of hydroxy, alkoxy and alkyl, the methyl group of said substituted and unsubstituted phenylmethyl, naphthyl methyl and quinoline-C-methyl radicals being unsubstituted.

2,161,939
COLLET
Clarence M. Sutton, Detroit, Mich.
Application August 22, 1938, Serial No. 226,030
7 Claims. (Cl. 29—62)

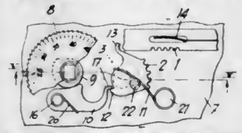


1. In a master collet construction, a main body part, a pad part adapted for reception in said main body part, each of said parts having an axially projecting portion adjacent each end of said pad part, and said portions at corresponding ends of said pad part being arranged in radially overlapping relationship and cooperating to maintain the radial association of said parts in both directions.

2,161,940
MANUFACTURE OF AMINOTRIAZINES
Gustave Widmer, Basel, Willi Fisch, Riehen, and Josef Jakl, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application May 27, 1938, Serial No. 210,526. In Switzerland June 5, 1937
2 Claims. (Cl. 260—248)

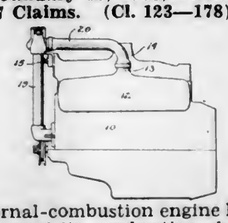
1. In the manufacture of 2.4.6-triamino-1.3.5-triazine by heating a cyan derivative of ammonia selected from the group consisting of dicyandiamide and cyanamide in a closed vessel up to temperatures above 100° C. in presence of at most 10 per cent of water based on the weight of the cyan derivative used, the feature of performing the reaction in a closed vessel, the volume of the reacting mass, calculated on an air-free basis being at least 30% of the volume of the vessel.

2,161,941
FILM FEEDING MECHANISM FOR PHOTOGRAPHIC APPARATUS
Walter Zapp, Riga, Latvia, assignor to Valsts Elektrotechiska Fabrika, Riga, Latvia, a company of Latvia
Application December 6, 1937, Serial No. 178,388
In Finland December 21, 1936
4 Claims. (Cl. 242—71)



1. A film feeding mechanism for photographic apparatus having a roller for carrying the film to be exposed, a second roller on to which the exposed film is wound, a rotatably mounted toothed plate operatively connected to said second roller by means of an unidirectional step-by-step feeding mechanism, a reciprocable rack, manually operable means for reciprocating said rack through strokes always of constant length, said rack being positioned to engage said toothed plate for turning said plate when moved in one direction, and for returning said plate a certain distance when moved backwards, a spring engaging said toothed plate for continuing the return motion of said toothed plate after said rack has returned said plate said certain distance, a projection on said toothed plate, and a stop located in the path of motion of said projection, and means operated by said rack on each stroke thereof for adjusting the position of said stop forwardly a certain distance in said path of motion of the projection.

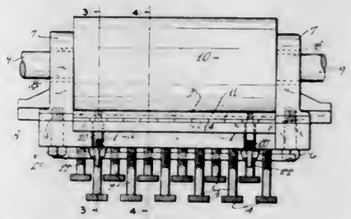
2,161,942
COOLING SYSTEM FOR INTERNAL COMBUSTION ENGINES
Emil Zoerlein, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application January 13, 1938, Serial No. 184,784
7 Claims. (Cl. 123—178)



1. An internal-combustion engine having a water jacket around its combustion chambers, said water jacket having inlet and outlet openings therein, comprising a conduit extending from said outlet to said inlet opening so that cooling water may circulate through said jacket and conduit, said jacket and conduit forming a cooling system, an injector nozzle disposed within said conduit, means for injecting relatively cold water through said nozzle to produce an injection action which both cools and circulates all of the fluid in said cooling system,

and means for discharging heated water from said water jacket in an amount equal to the cold water introduced through said nozzle, said heated water being discharged from the cooling system at a point between said outlet opening and said nozzle.

2,161,943
INK FOUNTAIN
Carl D. Baue, St. Louis, Mo.
Application January 17, 1938, Serial No. 185,351
1 Claim. (Cl. 101—364)



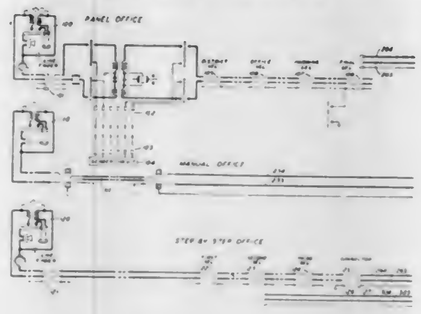
An ink dam including an elongated back strip having two spaced rows of transversely aligned internally threaded apertures, a plurality of elongated blade-members each having at its one end a pair of apertures in registration with a pair of transversely aligned back strip apertures, a reference strip of substantially the same length as the back strip and of substantially narrower width, said reference strip having a single row of apertures in registration with one of the rows of apertures of the back strip, and screw means extending through the registering apertures for holding said back strip, blades, and reference strip in assembled relation.

2,161,944
FENCE STRUCTURE
Carl Bauer, St. Louis, Mo., assignor to Missouri Rolling Mill Corporation, St. Louis, Mo., a corporation of Missouri
Application June 24, 1937, Serial No. 150,135
2 Claims. (Cl. 256—11)



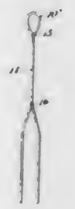
1. In a fence-structure, a post, a channeled arm having a downwardly presented under face and two adjacent inclined lateral faces, a cap including an open-ended shell fitting over and upon the upper end of the post and a rearwardly presented extension having an upwardly presented face and two inclined lateral faces, said upwardly presented face and inclined faces being positioned with respect to each other with snug fitting complementary disposition within the channeled arm, and means extending through the downwardly and upwardly presented faces respectively of the channeled arm and cap-extension for securing said arm and said extension in tight fitting engagement.

2,161,945
TIME-OF-DAY ANNOUNCING SYSTEM
John Baumfalk, Jersey City, N. J., William Bennett, Brooklyn, N. Y., and Paul L. Wright, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 6, 1936, Serial No. 94,532
12 Claims. (Cl. 179—6)



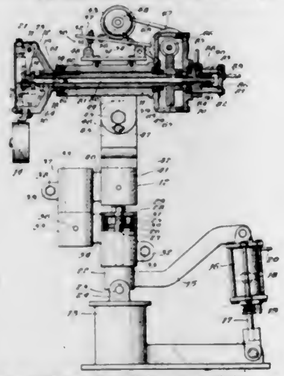
1. In a telephone system, an incoming trunk, a station having an announcing machine thereat, two equivalent trunks outgoing to said station, means for connecting said incoming trunk with either one of said outgoing trunks, means responsive to the seizure of said incoming trunk for transmitting a start signal over the outgoing trunk to which said incoming trunk is connected for starting said announcing machine, and means operable a predetermined interval following the transmission of said start signal if said machine fails to start for automatically transferring said incoming trunk into connection with the other outgoing trunk.

2,161,946
HAIRPIN
Frank Beiter, New York, N. Y.
Application January 20, 1938, Serial No. 185,835
4 Claims. (Cl. 132—50)



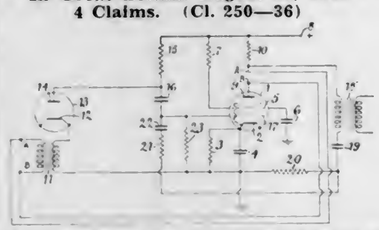
1. In a hair pin, a wire structure comprising a relatively short, small, resilient loop, a pair of closely adjacent, superimposed parallel leg portions extending from the loop and intended for holding flatly a portion of hair engaged by the pin, another pair of parallel, but spaced leg portions forming continuations of the superimposed leg portions; angular, very gradually inclined connections joining the two pairs of leg portions, the distance between the spaced leg portions substantially corresponding to the width or breadth of said loop, said superimposed and said spaced parallel leg portions being substantially of equal length.

2,161,947
MACHINE FOR SURFACE FINISHING
Byron F. Bower, St. Charles, Ill., assignor to The Howell Company, St. Charles, Ill., a corporation of Illinois
Application October 22, 1938, Serial No. 236,440
10 Claims. (Cl. 51—237)



1. In a surface finishing machine, a work holding chuck, a finishing wheel, a swinging supporting head for said chuck, a stem carrying said head, and a base, said stem being pivoted on the base, and control means adapted to move the chuck head to bring the work against the finishing wheel and hold it against the wheel, said control means comprising a cylinder, a piston therein having a piston rod projecting from the cylinder, an arm on the stem, said cylinder and piston rod being interposed between the arm and said base, and means to direct fluid under pressure to either side of the piston in said cylinder.

2,161,948
ELECTRICAL OSCILLATION GENERATOR
Cabot Scaton Bull, Uxbridge, and William Spencer Percival, Ealing, London, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application August 7, 1936, Serial No. 94,792
In Great Britain August 12, 1935
4 Claims. (Cl. 250—36)



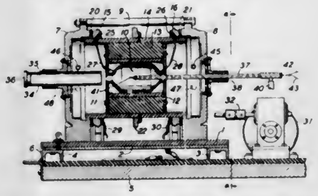
1. An oscillation generator comprising a thermionic tube including anode, cathode and at least one control electrode, an electrical storage element connected in the control electrode-cathode circuit of said tube, a unilaterally conducting device, an energy transfer means, said energy transfer means and said unilateral conducting device being serially connected in said control electrode-cathode circuit of said tube, a source of potential electrically connected in series with said electrical storage element and between said anode and cathode for supplying operating potentials to said thermionic tube and for storing energy in said electrical storage element, means for transferring energy from the anode-cathode circuit of said tube to said energy transfer means for maintaining said unilaterally conducting device nonconducting during the periods of energy storing in the electrical storage element, and a load circuit connected in the anode-cathode circuit of said thermionic device.

2,161,949
PROCESS FOR COAGULATING DISPERSIONS
William S. Calcott, Woodstown, N. J., and Mortimer A. Youker, Gordon Heights, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 24, 1937, Serial No. 181,602
11 Claims. (Cl. 260—89)

1. In the method of treating aqueous dispersions wherein the dispersing agent is a substituted ammonium salt containing a long chain aliphatic group containing more than nine carbon atoms, the step which consists of coagulating the dispersion by the combined action of a salt, the water-solubility of which is at least about 10% at the temperature at which the coagulation is carried out and an organic compound, the water solubility of which is at least 1% at the temperature at which the coagulation is carried out, said compound being selected from the group consisting of alcohols, aldehydes, ketones and carboxylic acids.

6. In the method of treating aqueous dispersions of 2-chloro-1,3-butadiene wherein the dispersing agent is a substituted ammonium salt containing a long chain aliphatic group containing more than nine carbon atoms, the step which consists of coagulating the dispersion with agitation by means of the combined action of a salt selected from the group consisting of chlorides of alkali and alkaline earth metals and an alcohol having a water solubility of about 8 to 12%.

2,161,950
DEPOSITION FURNACE
Carl J. Christensen, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 27, 1936, Serial No. 82,035
9 Claims. (Cl. 91—18)



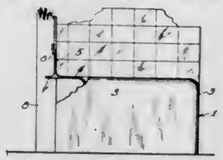
1. The combination in a deposition furnace for treating divided material of a rotatable enclosed heating chamber having raised ribs formed on the internal surfaces thereof for tumbling said material and so arranged with respect to the axis of rotation of the chamber as to cause the material to move in both directions with respect to the central portion of the chamber.

2,161,951
PHENOL-MODIFIED RESINS FROM CRUDE SOLVENT NAPHTHA
William H. Carmody, Pittsburgh, Pa., assignor to The Neville Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application January 21, 1938, Serial No. 186,140
3 Claims. (Cl. 260—81)

1. As a new article of manufacture, a solid

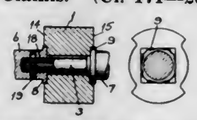
resin composed of polymers of the polymerizable constituents of crude solvent naphtha resulting from polymerization of said constituents with concurrent involvement with a phenolic substance, and being further modified by hydrogenation and characterized by being substantially colorless and soluble in alcohols.

2,161,952
BATHTUB
Allison H. Dean, Portland, Oreg.
Application May 27, 1936, Serial No. 82,142
1 Claim. (Cl. 4—173)



A bathtub having an integral up-standing wall, a projection extending outwardly from said wall and adapted to engage with the wall of a room, the upper edge of said up-standing wall being offset to underlie the covering of said wall of the room.

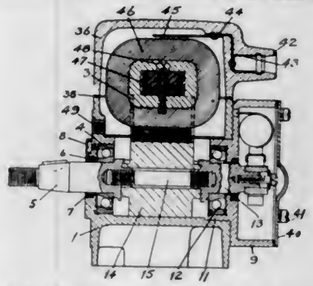
2,161,953
ROTOR FOR MAGNETO ELECTRIC GENERATOR
Le Roy S. Dunham, East Orange, and Arthur F. Robertson, Belleville, N. J., assignors to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application March 12, 1937, Serial No. 130,496
9 Claims. (Cl. 171—209)



1. In a magneto electric generator having a relatively stationary system including a coil and members of magnetic material for gathering and sending flux therethrough; a rotary permanent magnet for supplying magnetic flux to said system, said magnet having a centrally located hole therethrough, said magnet having formations at each end to be engaged by shaft parts, and shaft parts having portions extending into the hole in the magnet and engaging the inner periphery of said hole, means for anchoring said shaft parts to said magnet end formations and a stud for connecting said shaft parts located in said magnet hole and having a diameter smaller than said shaft part portions which are located in the hole.

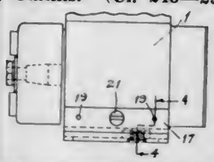
2,161,954
MAGNETO ELECTRIC GENERATOR
Le Roy S. Dunham, East Orange, and Arthur F. Robertson, Belleville, N. J., assignors to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application March 31, 1937, Serial No. 134,050
12 Claims. (Cl. 171—209)

1. A convertible magneto including a foundation unit comprising; a frame structure integrally carrying oppositely disposed stationary field core parts spaced to receive a rotor therebetween and extending upwardly to receive thereon an ignition coil, and, a bearing mounted in the drive end of the frame; which terminates in substantially the same plane and a substantial distance below the finished top of the magneto, a removable bearing member fitting the breaker end of the frame and completing the closure of the frame at this end, an assistant housing means fitting directly onto said bearing member and forming therebetween a complete housing for spark-controlling devices, a bearing carried by said housing member, a rotor supported by said bearings, said rotor comprising shaft members and a permanent magnet carried thereby for cooperation with said field core



parts; a high-tension ignition coil having a core member for engaging said field core parts, a single-piece cap for covering the coil removably mounted on the top of the frame, said cap having a projecting part through which electrical connection is made directly to the high-tension side of the coil, and means for controlling the action of the coil including a circuit breaker mechanism and a cam on the rotor shaft, both mounted within said housing formed between the assistant housing means and said removable bearing member.

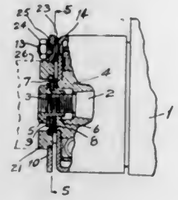
2,161,955
MAGNETO MOUNTING MEANS
Le Roy S. Dunham, East Orange, N. J., assignor to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application October 14, 1937, Serial No. 168,868
4 Claims. (Cl. 248—23)



1. A magneto mounting means comprising, in combination, a magneto, a base for the magneto, said base having spaced slots therein extending longitudinally of the magneto, and a nut non-rotatably but slidably positioned in each slot to receive screw-studs coming from an engine support, the portion of the base carrying the nuts being detachable from the lower part of the magneto, said detachable portion having upturned sides embracing the lower part of the magneto on opposite sides of the shaft, and means for fastening said upturned sides to the lower part of the magneto.

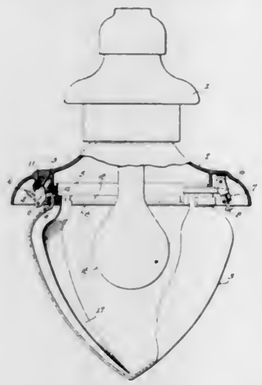
2,161,956
ADJUSTABLE COUPLING
Arthur F. Robertson, Belleville, N. J., assignor to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application October 14, 1937, Serial No. 168,866
8 Claims. (Cl. 287—129)

1. An adjustable coupling for the general purpose described including in combination with a shaft to be driven; at least one member operatively carried by the shaft for driving it, a coupling member radially located around the shaft and having arcuately positioned timing slots therein with knurled surfaces adjacent said slots, and driving lugs fastened thereto, the member, operatively carried by the shaft, having clamping studs fastened thereto and extending through



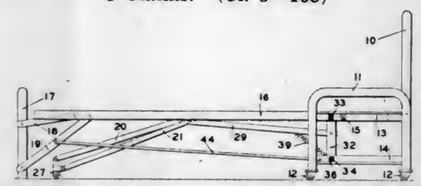
said slots in the timing member, washers capable of being gripped without undue compression by said knurled surfaces carried on said clamping studs between the coupling member and the member operatively carried by the shaft, and means on the clamping studs for securing said coupling member in its adjusted position with respect to said member operatively carried by said shaft.

2,161,957
LIGHTING UNIT
Lawrence F. Giese, Hales Corners, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application December 21, 1936, Serial No. 116,976
2 Claims. (Cl. 240—25)



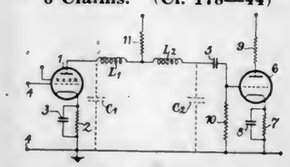
2. In a lighting unit, the combination of a globe, a lamp located within said globe for illuminating said globe, and a metal shield interposed between said lamp and said globe for shielding a portion only of said globe, said lighting unit having an annular portion provided with an inwardly projecting flange, and a resilient split ring carried by said shield and seated upon said flange, said split ring expanding and bearing against said annular portion, whereby said shield is supported by the engagement of said split ring with said flange and is prevented from shifting by the resiliency of said split ring, said split ring being out of contact with said globe.

2,161,958
FOLDING BED
Arthur G. Gilson, Fort Smith, Ark., assignor to Mitchell Manufacturing Company, Fort Smith, Ark., a corporation of Arkansas
Application September 28, 1936, Serial No. 102,840
3 Claims. (Cl. 5—168)



1. In a device of the class described the combination with a head structure, of a mattress frame pivoted to said head structure to swing from vertical to horizontal position, a pair of levers pivoted to the mattress frame at one end, said levers being pivoted to a caster at the other end, a link pivoted to one of said levers and provided with a slot, a strut pivoted to the head structure and carrying a pin engaging with the slot, and means for adjusting the strut on its pivot.

2,161,959
INTERVALVE COUPLING AND LIKE CIRCUIT
John Hardwick, West Drayton, Middlesex, and Eric Lawrence Casling White, Hillingdon, Middlesex, England, assignors to Electric & Musical Industries Limited, Middlesex, England
Application July 8, 1936, Serial No. 89,668
In Great Britain July 9, 1935
6 Claims. (Cl. 178—44)

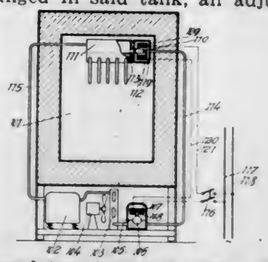


1. An electrical network comprising in combination input and output means, said means having shunt capacity, said shunt capacity of said output means being greater than twice said shunt capacity of said input means, inductance coils arranged in series between said input and said output shunt capacities, a resistance connected effectively in shunt in said network at a junction between said inductance coils, the inductance values of said inductance coils and the value of said resistance being chosen so that the attenuation introduced by said network is approximately uniform over a substantial range of frequencies.

2,161,960
REFRIGERATING APPARATUS OF THE COMPRESSION TYPE
Rudolf Hintze, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany
Application December 16, 1937, Serial No. 180,195
In Germany December 24, 1936
12 Claims. (Cl. 62—8)

1. With a refrigerating apparatus having a circulating system for the refrigerant, comprising a compressor, a condenser, a condensate collecting tank, an evaporator, and conduits connecting said compressor, condenser, tank, and evaporator, in combination, a regulating system com-

prising a valve arranged in the conduit between said tank and said evaporator for controlling the flow of the refrigerant through said conduit, a float arranged in said tank, an adjustable im-



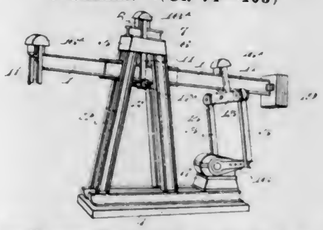
pedance regulator connected with said float so as to have its impedance value varied responsive to variations of the level of the refrigerant in said tank, and a control circuit operatively connecting said impedance and said valve.

2,161,961

PUMPING UNIT FOR WELLS

George T. Humphrey, Dallas, Tex., assignor to Republic Supply Company, Houston, Tex.

Application January 13, 1937, Serial No. 120,418
Renewed March 6, 1939
7 Claims. (Cl. 74—103)



1. A well pumping unit including a walking beam, a suspension bearing comprising a base portion, a box superimposed upon said base portion, a bearing block enclosed by said box, a cylindrical bearing mounted upon said block and having a second block fixedly mounted thereto, depending suspension arms affixed to said latter block, means holding said suspension arms at an angle relative to the vertical plane, said means also causing said walking beam to be progressively moved longitudinally as it approaches its extreme positions of displacement in operation.

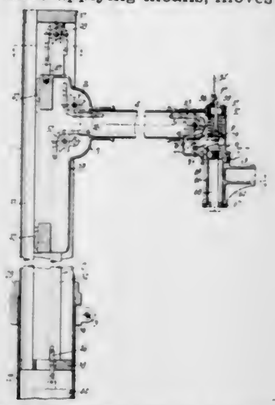
2,161,962

INSTRUMENT SUPPORTING DEVICE

Clyde L. Hunsicker, San Francisco, Calif., assignor of one-half to Aaron S. Green and Martin I. Green, both of San Francisco, Calif.

Application March 29, 1937, Serial No. 133,585
9 Claims. (Cl. 248—123)

4. In an adjustable support for instruments, a relatively fixed mounting, vertically extending tracking means journalled upon the mounting, whereby the tracking means may rotate about a vertical axis, a carriage engaging the tracking means, an arm mounted upon the carriage and extending laterally from the tracking means, a flexible retention element, means attached to one end of said element adjacent the lower end of said tracking means, and serving to apply downward force upon the same, a connection between the other end of said retention element and said carriage, a wheel mounted adjacent the upper end of said tracking means and over which the retention element is tracked, whereby that portion of the retention element between said wheel and said force applying means, moves relative to



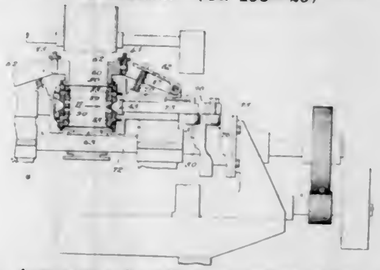
the carriage when the carriage is moved with respect to the tracking means, and means for releasably locking said portion of the flexible element with respect to the carriage.

2,161,963

APPARATUS FOR SHAPING TUBES, SHELLS, OR THE LIKE

Serge Khatunzeff, New York, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application July 23, 1938, Serial No. 220,854
3 Claims. (Cl. 153—25)



1. Apparatus for shaping tubes, shells or the like, comprising radially movable segments, angle-pieces extending across the meeting planes of the segments, said segments having grooves at an angle to a meeting plane, the legs of said angle-pieces fitting slidably in said grooves, said legs and grooves being so constructed and arranged that the angle pieces are moved outwardly by the segments when spreading, and means for simultaneously spreading said segments and angle-pieces, said spreading means comprising said grooves and said legs, the arrangement being such that the movement of said segments imparts a resultant spreading movement to said angle-pieces.

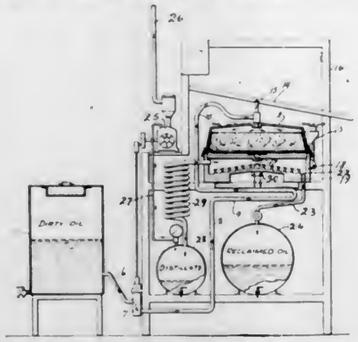
2,161,964

APPARATUS FOR TREATING OIL

Theodore A. La Brecque, Elmira, N. Y., assignor to The Hilliard Corporation, Elmira, N. Y., a corporation of New York

Application July 10, 1934, Serial No. 734,500
6 Claims. (Cl. 196—16)

1. A purifying apparatus including, in combination, a receptacle to contain oil to be purified, a tube extending from said receptacle and connected thereto, a heating coil connected to said tube, a filter body beyond said heating coil and to which the outlet end of the latter is connected, said filter body being formed with an opening for the passage of cleansed oil, means



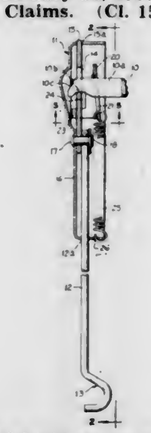
providing a vaporizing chamber below said filter body, such opening extending through to said chamber, heating means acting within said chamber, suction means, a distillate receiving tank connected to said means, a condenser coil extending from said chamber downwardly to said tank, and a receptacle for reclaimed oil also connected to said chamber.

2,161,965

WINDSHIELD WIPER ARM

Joseph I. Liner, Toledo, Ohio, assignor to The Orion Electric Company, Wilmington, Del., a corporation of Delaware

Application February 26, 1937, Serial No. 127,825
4 Claims. (Cl. 15—255)



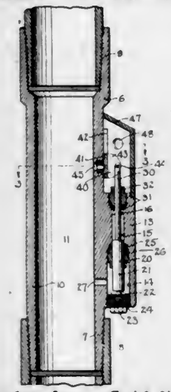
1. In a windshield wiper arm, a non-circular driving member, a driven member having a non-circular aperture to cooperate with the non-circular driving member adapted to allow relative movement in a predetermined plane and to transmit power between the driving member and the driven member, slidable guide means on the driven member having a portion adapted for longitudinal movement in spaced relation with the driven member, said portion being provided with an aperture to embrace the driving member at a point displaced from the point of cooperation between the driving member and the driven member, and resilient means acting between the guide means and the driven member tending to pull the apertures in the guide means and the driven member out of alignment whereby a turning moment is created tending to move the driven member in the predetermined plane.

2,161,966

MEANS FOR FLOWING WELLS

Jon R. Long, Fort Worth, Tex., assignor of one-half to L. L. Foley, Tulsa, Okla.

Application March 26, 1937, Serial No. 133,150
3 Claims. (Cl. 103—232)



1. A control valve for a fluid lift assembly in wells comprising a coupling for the tubing string, an inlet through said tubing for pressure fluid, a plunger carried by said coupling and externally thereof, means on said plunger to control said inlet for pressure fluid to the tubing, means to expose said plunger to the pressure inside of the tubing, means to expose a portion of the area of said plunger to the pressure outside of said tubing so that said plunger will move to admit or cut off the entry of pressure fluid to the tubing solely in accordance with the differential pressure applied thereto as regards the inside and outside of said tubing.

2,161,967

DYESTUFFS OF THE ANTHRAQUINONE SERIES

Ralph N. Lulek, Silverside Heights, Del., and Clarence F. Belcher, Bridgeton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 21, 1938, Serial No. 236,304
4 Claims. (Cl. 260—316)

1. The dyestuffs obtained by the condensation of a compound of the class consisting of aminoanthraquinones and aminoanthrones with a halogen benzobenzanthrone and subsequent caustic alkali fusion of the anthrimide compound so produced.

2,161,968

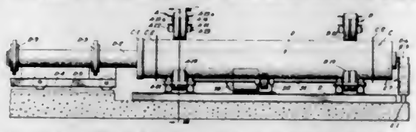
APPARATUS FOR MANUFACTURING OR LINING PIPES

Daniel A. Lyons, Los Angeles, and Lloyd R. Earl, Alhambra, Calif., assignors to Consolidated Steel Corp., Ltd., Los Angeles, Calif., a corporation of California

Application May 7, 1938, Serial No. 206,688
11 Claims. (Cl. 91—42)

1. In a machine for spinning pipes or pipe molds about their longitudinal axes, a plurality

of sets of rollers spaced longitudinally along the pipe or mold, each set including laterally spaced supporting rollers to directly engage the surface of the pipe or mold below the axes thereof and at



least one roller to directly engage the surface of the pipe or mold above the axis thereof to constrain the axis of rotation against substantial lateral displacement in any direction.

2,161,969
PUNCH
Clarence E. Mange, St. Louis, Mo., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application May 7, 1938, Serial No. 206,591
11 Claims. (Cl. 164—119)

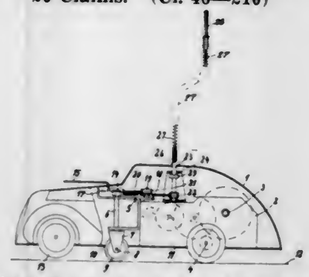


1. A sheet metal punch comprising a portion adapted to be held against the sheet metal, a movable punch assembly having a point and adapted manually to be retracted from said sheet metal, and reacting means between said punch assembly and said body portion to accelerate the punch assembly toward the sheet metal to provide therefor a substantial velocity before and as it strikes the sheet metal.

2,161,970
LUBRICANT
Floyd L. Miller, Roselle Park, and Charles F. Smith, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 2, 1937, Serial No. 118,921
5 Claims. (Cl. 87—9)

1. An improved lubricating oil for extreme pressure service comprising a lubricating oil base characterized by a viscosity index of at least 80 and a viscosity above 75 sec. Saybolt at 210° F., a lead salt of a higher fatty acid normally insoluble in the oil and a solubilizing agent therefor in proportion of about ⅓ to 1 part per part of the lead salt, selected from the group consisting of sulfonic and naphthenic acids, and their heavy metal salts, the lead salt amounting to 5 to 20% of the final composition and a sulphur compound in quantity sufficient to furnish .3 to 3.0% of corrosive sulphur.

2,161,971
TOY VEHICLE
Heinrich Müller, Nuremberg, Germany
Application March 24, 1938, Serial No. 197,760
In Germany December 6, 1937
20 Claims. (Cl. 46—210)



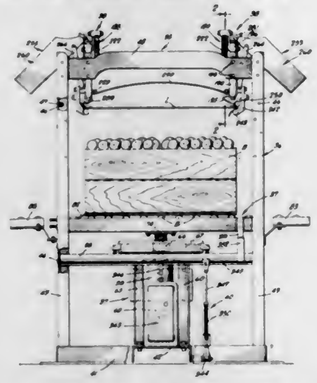
3. A wheeled toy, comprising a toy body, propelling means mounted therein, driving wheels mounted on said toy body and in driving connection with said propelling means, steering wheels arranged in front of said driving wheels, and a single flexible member of accentuated length in the form of a flexible wire for transmitting steering movement to the steering wheels from the outside, said flexible member having sufficient torsional rigidity to transmit rotational displacement throughout the length thereof without requiring any concentrical supporting members.

2,161,972
MATERIAL FOR MANUFACTURING PAPER COLLARS AND THE LIKE
Wilhelm Müller and Adolf Closmann, Leipzig, Germany, assignors to Atlas Ago Chemische Fabrik, Aktien-Gesellschaft, Molkau, near Leipzig, Germany, a corporation of Germany
No Drawing. Application February 17, 1936, Serial No. 64,343. In Germany November 25, 1935
6 Claims. (Cl. 154—46)

1. As a new article of manufacture, a paper collar having an appearance closely similar to that of linen collars and being free from brittleness and telltale wrinkles characteristic of conventional paper collars comprising a body consisting of a soft and yielding base of fibrous cellulosic material having relatively long fibres embedded therein forming the inner surface of said collar, and a strong and dense fibrous cellulosic covering layer firmly bonded to said base forming the outer surface of said collar, said collar being free from brittleness and being adapted to be subjected to sharp bending without wrinkling and cracking.

2,161,973
NAIL FEEDING MECHANISM
Gerald C. Paxton, Santa Ana, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application February 10, 1937, Serial No. 125,096
18 Claims. (Cl. 1—16)

1. In a nail feeding mechanism, the combination of: a nail hopper having a rear wall, side walls, and a floor, there being a slot formed in said floor having a mouth at the front edge of said floor, there being a keeper notch in said edge adjacent the mouth of said slot; means for rocking said hopper about an axis parallel to said edge between positions inclined upwardly and inclined downwardly from said edge; a nail picker bar mounted adjacent said edge and shiftable between nail receiving and nail transferring positions, there being a small transfer notch and a relatively large discharge notch in said picker bar, said transfer notch being opposite said mouth and said discharge notch being opposite said keeper notch when said picker bar is in nail receiving position, said bar being in this po-



sition when the hopper is inclined upwardly from said edge, said transfer notch being opposite said keeper notch when said hopper is inclined downwardly from said edge and said picker bar is in nail transferring position; and means for coordinately actuating said hopper and picker bar as aforesaid.

2,161,974
METHOD OF CONTROLLING EXOTHERMIC REACTIONS
Edward B. Peck, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 21, 1937, Serial No. 121,427
14 Claims. (Cl. 260—449)

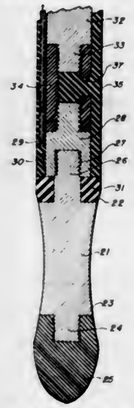
1. A method of controlling the temperature of gases undergoing exothermic catalytic reactions within the desired temperature limits which comprises passing the reacting gases through a reaction zone in contact with a solid catalyst capable of effecting the desired reaction maintained in suspension within a fluid medium of sufficient quantity to absorb excess heat resulting from the exothermic reactions, thereafter withdrawing the fluid medium from the reaction zone, removing the excess heat of the reaction from the fluid medium so withdrawn and returning the same to the reaction zone.

2,161,975
TITANIUM DIOXIDE PIGMENTS
Karl Walter Petersen, Stockholm, Sweden, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application January 8, 1937, Serial No. 119,625. In Germany January 25, 1936
9 Claims. (Cl. 134—58)

1. In the process for the improvement of titanium dioxide for use as a pigment, the step which comprises stirring titanium dioxide with a solution of a basic aluminium salt.

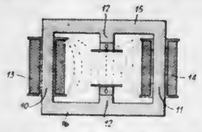
2,161,976
ELECTRODE FOR WELL LOGGING
Finley T. Robidoux, Houston, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application February 3, 1938, Serial No. 188,428
3 Claims. (Cl. 175—182)

1. An electrode assembly adapted for use in electrical well logging operations, said assembly including an electrode adapted to make electrical contact with mud or other fluid in a well and means for holding the electrode out of direct contact with the wall of a well as it is moved therein, thereby avoiding interference in some electrical property being logged due to intermittent con-



tact between the electrode and the wall of the well, said means including a tip made of insulating material secured to the lower end of said electrode and member made of insulating material adjacent the upper end of said electrode, said tip and member being of a greater diameter than said electrode.

2,161,977
CATHODE RAY DEFLECTION APPARATUS
Hans Otto Roosenstein and Horst Hewel, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application February 10, 1937, Serial No. 125,158
In Germany January 21, 1936
5 Claims. (Cl. 250—157)

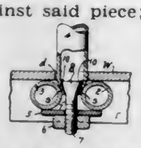


1. In electron beam apparatus wherein there is developed an electron beam, said beam being linearly deflected along a predetermined path, apparatus for deflecting said electron beam comprising a plurality of co-operating pole members each adapted to embrace a portion of the path of deflection of said beam, and means for establishing a flux between said pole members for deflecting said beam, said latter means being positioned at a finite distance from said pole pieces so that the electromagnetic field from said latter means intersects the flux from said pole pieces for establishing a substantially equal field intensity along the line of deflection of said beam.

2,161,978
MECHANICAL JOINTURE
Benjamin Rosenbaum, New York, N. Y.
Application September 18, 1937, Serial No. 164,604
15 Claims. (Cl. 189—36)

6. A knock-down frame jointure structure comprising a base; a strut piece supported on the base; a wedge ended frame strut having its wedge

end engaged against said piece; and means for



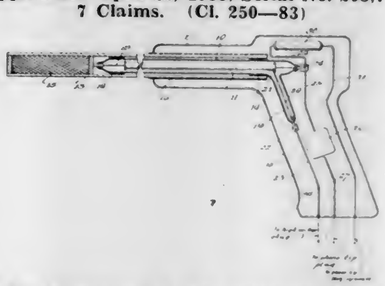
drawing the wedge end into wedging contact with said piece.

2,161,979

APPARATUS FOR DETECTING IONIZING RADIATIONS OF VERY LOW INTENSITY

Leopold Rovner, Chicago, Ill., assignor of one-half to Prothero Radium Memorial, a corporation of Illinois

Application April 22, 1938, Serial No. 203,716
7 Claims. (Cl. 250—83)



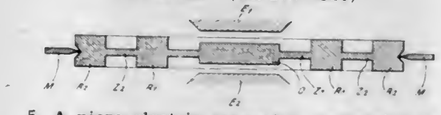
1. An apparatus of the character described, comprising a holder, a counter tube mounted within said holder and radiation excluding shielding carried by said holder and disposed adjacent one end of said tube only so as to exclude only radiations coming in along the direction of the longitudinal axis of said tube.

2,161,980

ELASTICALLY OSCILLATING OSCILLATOR

Wilhelm Runge and Hans Otto Roosenstein, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 11, 1933, Serial No. 693,078
In Germany October 12, 1932
9 Claims. (Cl. 171—327)



5. A piezo-electric resonator comprising a vibrating portion and a flexible member integral with said portion, said flexible member serving to mount the resonator on a support.

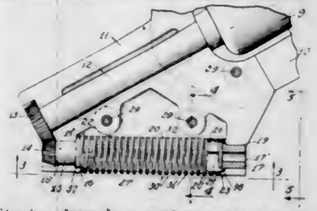
2,161,981

RAZOR

Henry Ruskin, Chicago, Ill.

Application November 12, 1936, Serial No. 110,448
8 Claims. (Cl. 30—43)

1. In a shaving implement comprising a handle structure, a bearing structure and a U-shaped cover for the latter, a drive shaft linked at one end thereof to power means within said handle structure, the other end thereof drivingly engaged to a spiraled cutting element, said cutting element being adapted to rotate axially in a plane at an angle to said drive shaft and being disposed within a chamber formed between said bearing structure and the bight portion of said U-shaped member, the bight portion having slits formed therein providing plates thereon and bearing against the periphery of said cutting element whereby the leading edges of the latter will cross



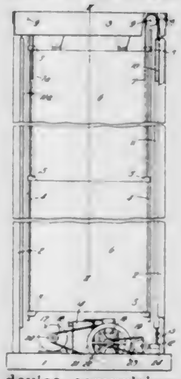
said slits in shearing action with an edge of said space plates, and an opening formed through said bearing structure on the axis of said spiraled cutting element whereby particles of hair may be removed from the cylindrical chamber.

2,161,982

DISPLAY DEVICE

Nicholas Sandor and Felix Edward Laszlo Sandor, Surbiton, Surrey, England, assignors to I. S. M. Limited, London, England, a British company

Application July 12, 1938, Serial No. 218,816
In Great Britain July 13, 1937
4 Claims. (Cl. 40—37)



1. A display device comprising a cabinet, an observation window in said cabinet, a plurality of frames, said frames containing matter to be displayed and being disposed rearwardly of said observation window and movable in said cabinet, a plurality of fluid motors associated with said frames for moving said frames in said cabinet, said motors each including at least one counterweight connected for movement in opposition to the frame and movable by fluid under pressure in a piston against the action of gravity, a plurality of valves for controlling the supply and exhaust of fluid to and from said fluid motors and means for operating said valves in predetermined succession to move said cards behind said observation window.

2,161,983

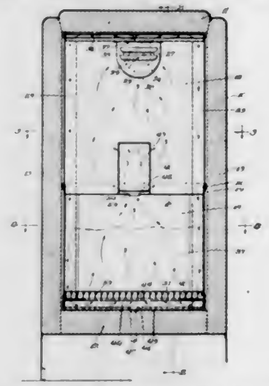
FORCED DRAFT REFRIGERATOR

Wilburn H. Swanson, Morrison, Ill., assignor to Ice Cooling Appliance Corporation, Morrison, Ill., a corporation of Delaware

Application October 6, 1937, Serial No. 167,486
11 Claims. (Cl. 62—72)

1. In a refrigerator of the class described, the

combination with a cabinet having a food chamber and an ice chamber in communication with each other, of a plurality of vertical flues arranged in said cabinet in separated relation and in communication with the ice chamber and the food chamber to conduct air from the food chamber



to the ice chamber, an air-distributing chamber arranged over the food chamber and in communication with the upper ends of said flues for effecting distribution of the air to the flues, and means for causing circulation of the air from the food chamber through said air-distributing chamber to said flues.

2,161,984

PROCESS FOR DEHYDROGENATION OF HYDROCARBONS

William J. Sweeney and William E. Spicer, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 31, 1935, Serial No. 56,913
7 Claims. (Cl. 260—683)

4. A process for dehydrogenation of hydrocarbons, which comprises passing a hydrocarbon through an elongated upright reaction zone maintained at a temperature within the approximate limits of 900° F to 1100° F. and packed with a catalyst, in the form of pills, consisting of as its essential active catalytic component an oxide of a metal of group 6 of the periodic system associated with a major portion of a substance selected from the group consisting of alkaline earth metal oxides and amphoteric oxides, said catalyst having been obtained by incorporating with the mixed oxides a small amount of a solid acidic inorganic substance, molding the mixture thus obtained into pills and heating said pills at a temperature of at least 1600° F. but insufficient to effect complete fusion of said catalyst mass for a sufficiently long time to materially increase their mechanical strength.

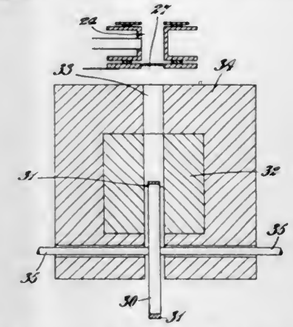
2,161,985

PROCESS OF PRODUCING RADIO-ACTIVE ELEMENTS

Leo Szilard, New York, N. Y.

Application March 11, 1935, Serial No. 10,500
In Great Britain March 12, 1934
9 Claims. (Cl. 204—31)

1. The method of producing a radio-active element from a natural element by causing fast deuterons to impinge on a target containing lithium, and exposing a layer of the natural element to be transformed into a radio-active element to the neutron radiation emitted by the said target.



2. The method of producing from a natural element a concentrate of a radio-active element which is isotopic with the said natural element, which comprises subjecting a compound of said natural element to an irradiation which will transform some of said natural element into a radio-active isotope of said natural element, said compound of said natural element being one which in the environment in which the irradiation is being carried out does not interchange atoms of said natural element bound in the compound with atoms of said natural element or its isotopes outside the compound, and separating, after irradiation, from the compound said natural element and its isotopes which are outside the compound.

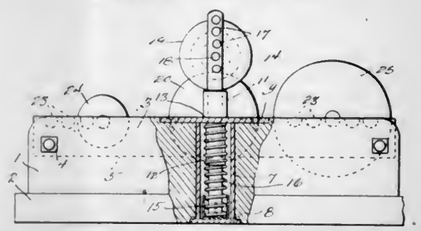
6. The method of producing from a natural element a radio-active element which is isotopic with the natural element comprising the steps of producing fast electrons, directing them toward a target adapted to produce X-rays under the impact of said electrons, exposing to the action of said X-rays an element of the class consisting of beryllium and heavy hydrogen which produce neutron radiation under the action of said X-rays, and producing a radio-active element from a natural element by exposing the natural element to said neutron radiation.

2,161,986

MASSAGE APPARATUS

Henry F. Thomas, Tulsa, Okla.

Application March 8, 1938, Serial No. 194,665
4 Claims. (Cl. 128—57)



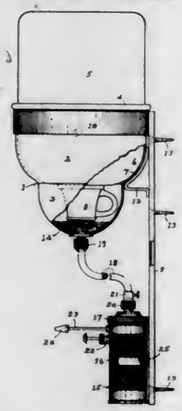
1. A massage device comprising more than two rollers arranged in the same plane with their axes parallel; said rollers being spaced and of relatively different diameters and lengths and arranged in spaced relationship with the largest roller at one end and the smallest at the other the largest and the intermediate rollers having convex exterior contours; another roller above said set of two or more rollers and having a con-

cave exterior contour and resiliently mounted to be urged toward said first mentioned rollers, and said latter roller being adjustable.

2,161,987
METHOD FOR IMPROVING SYNTHETIC HYDROCARBON OILS
Joshua A. Tilton and Roger W. Richardson, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 2, 1936, Serial No. 57,246
3 Claims. (Cl. 204—31)

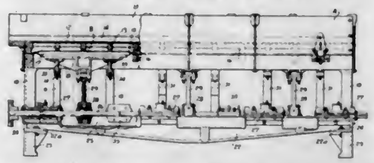
1. Process for improving an unrefined synthetic hydrocarbon pour point depressant prepared by chemical condensation from an aliphatic reactant having about 10 to 30 carbon atoms in a straight chain to give the pour point depressant improved color and potency marked by increased effectiveness in lowering the pour point of a wax-containing oil having a Saybolt viscosity of 70 seconds at 210° F. which comprises voltolizing the crude pour point depressant product by the action of silent electric discharges until the viscosity of the resulting voltolized product is about 100% higher but less than about 140% higher than the viscosity of said crude pour point depressant product.

2,161,988
LIQUID DISPENSING APPARATUS
Harry E. Warr, Wilkinsburg, and Earl H. Schwab, Pittsburgh, Pa.
Application January 4, 1938, Serial No. 183,258
3 Claims. (Cl. 221—67)



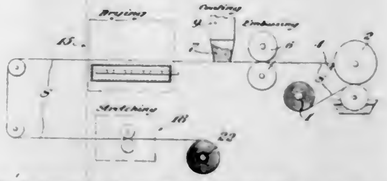
3. A liquid dispensing apparatus comprising the combination of a holder formed with a shoulder, said shoulder being shaped to conform to and receive the shoulder portion of a jug type of liquid container in the upside-down position, a horizontally disposed suspension band surrounding and engaging the top portion of said holder for removably supporting the latter therein, a vertically disposed supporting bar having its upper end secured to the back of said band, a liquid dispensing mechanism including a liquid receptacle, a flexible hose connecting the lower end of said holder with said receptacle, a rest member fixed to said bar below said band and engaging the shoulder of said holder for stabilizing the support of the latter in said band, and a resilient clamp element secured to said bar for removably carrying said mechanism when the latter is not in use.

2,161,989
FLAT SCREEN
Donald M. Waterous, Brantford, Ontario, Canada, assignor to Waterous, Ltd., Brantford, Ontario, Canada, a corporation of Canada
Application July 29, 1936, Serial No. 93,173
In Canada February 14, 1936
5 Claims. (Cl. 92—32)



1. In a flat screen including a vat, a screen, a diaphragm and a diaphragm plate, all arranged in operative relationship, a diaphragm operating eccentric and means to rotate the same, and a flexible strap rigidly attached at its ends to said eccentric and to said plate to depress said plate, and resilient means coacting with said plate for supporting said plate and for returning said plate to its uppermost position.

2,161,990
DECORATIVE METHOD AND PRODUCT
Benjamin Asnes, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application July 12, 1937, Serial No. 153,139
13 Claims. (Cl. 41—24)

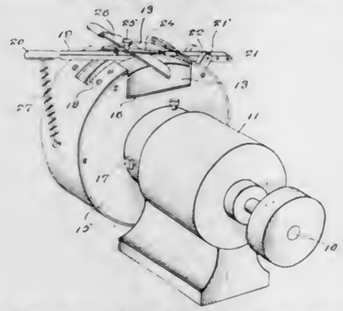


10. Method of making decorative paper which comprises creping the paper, embossing the creped paper to form hills and valleys extending transversely of the creping, and applying to the embossed crepe paper a coating containing finely-divided light-reflecting particles with the particles deposited predominantly in said valleys, thereby to form lines of relatively thick coating material along said valleys.

2,161,991
PROCESS FOR THE PRODUCTION OF OLEFINS
Hans Baehr, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application February 23, 1933, Serial No. 658,135. In Germany February 24, 1932
2 Claims. (Cl. 260—683)

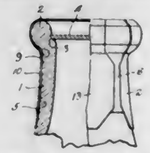
1. A process for the production of olefins which comprises reacting at a temperature between 400° and 700° C. a paraffinic hydrocarbon containing from 3 to 6 carbon atoms in the molecule with sulphur intermediarily formed by the interaction at the said temperature of oxygen on a sulphur compound capable of reacting with oxygen with the formation of sulphur, and in an amount to cause a substantial conversion of said hydrocarbon into hydrogen sulphide and an olefin having the same number of carbon atoms as the said paraffinic hydrocarbon.

2,161,992
ROTARY KNIFE SHARPENER
Silvio Battocchi, Springfield, Mass.
Application February 1, 1937, Serial No. 123,463
1 Claim. (Cl. 51—102)



In a sharpener of the kind described, a rotatable power element, a boxing centrally accommodating the power element and having an opening, grinding elements arranged side by side within the boxing in spaced relation to each other on said power element and accessible through the opening in the boxing, bearings changeable to either side of the opening in the boxing and fitted to the latter, and a vertically swingable and adjustable work carrier supported by said bearings and movable bodily between the grinding elements toward and away from the power element.

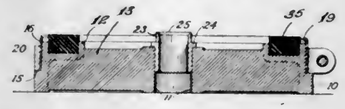
2,161,993
PROTECTIVE HOOD FOR BOTTLES
Samuel H. Berch and Don Ray, Los Angeles, and Ernest S. Chase, Glendale, Calif., assignors to Arden Farms, Inc., Los Angeles, Calif., a corporation of Maryland
Application December 21, 1936, Serial No. 117,022
1 Claim. (Cl. 215—38)



A shrouding hood for a milk bottle or the like consisting of a sheet of fibrous material with a coating on each side thereof forming a flexible and waterproof hood, said hood having a center portion of a diameter sufficiently large to overlap the head of such bottle and having extending tab portions adapted to overlap when extended over the neck of such bottle and form a continuous covering thereof, said coating being composed of resin and nitrated cellulose containing lacquer adapted on application of a solvent to unite said tabs together and to said bottle to seal the bottle in a fluid tight condition with the said hood.

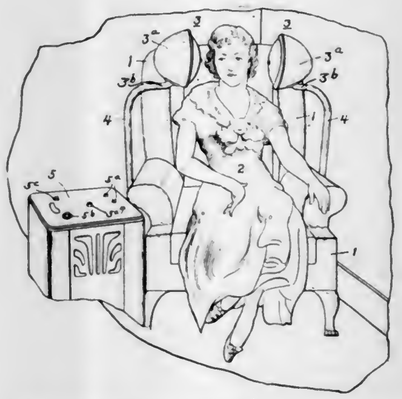
2,161,994
DISK CUTTER
John S. Burns, Detroit, Mich., and Arthur N. Emmons, Nedrow, N. Y., assignors to The Porter-Cable Machine Company Inc., Syracuse, N. Y., a corporation of New York
Application February 11, 1936, Serial No. 63,392
4 Claims. (Cl. 164—32)

1. A disk cutter comprising a circular base formed with a peripheral shoulder, a cutter blade of thin, flexible material encircling the upper portion of said base, with the cutting edge of the blade extending upwardly from the face of the base, and the lower edge resting on said shoulder,



an annular clamping member encircling said cutter blade below the cutting edge thereof and clamping the same against the periphery of the base, said base being formed with an aperture extending therethrough to permit removal of the severed disk.

2,161,995
SPEAKER AND LISTENING DEVICE
Arthur T. Cahill, Weehawken, N. J.
Application July 22, 1935, Serial No. 32,619
4 Claims. (Cl. 181—31)



1. A sound reproducing device or speaker particularly adapted for the reception of sound by a single listener exclusively, comprising, in combination, a rear shell of substantially hemi-ellipsoidal form, a conical diaphragm having its periphery secured to the peripheral portion of said shell so as to provide a closed chamber rearwardly of the diaphragm, actuating means for the diaphragm disposed axially at its rear, means for concentrating, accelerating and intensifying the aerial vibrations at the front of the diaphragm and delivering them in a relatively small stream of vibratory air close to the ear of a listener, said means comprising a cone-like front plate having a conical sound-delivery passage, said plate being attached peripherally to the speaker shell adjacent the periphery of the diaphragm, said conical sound-delivery passage forming between the front plate and the diaphragm an air chamber of constantly decreasing area forwardly in planes perpendicular to the axis of the diaphragm, said conical sound delivery passage terminating and opening outwardly at its plane of minimum area, and front cover means comprising a forwardly convex member connected peripherally with the shell and having remote from its periphery an opening for the outward passage of the reduced portion of the front plate.

2,161,996
WINDOW SASH CONSTRUCTION
Edward F. Chaffee, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application July 15, 1936, Serial No. 90,737
5 Claims. (Cl. 189—64)



1. In combination with a window frame formed with a channel, of a window sash mounted in the channel with one side face against one side of the channel, and means located in the channel coacting and pressing against the other side face for clamping the sash in the frame, said means comprising a strip located entirely in the channel beyond the edge of the glass pane of the sash, the strip being fulcrumed at one edge on the bottom of the channel and having its margin remote from the fulcrum pressing against the sash, and a screw extending through the strip against its fulcrumed edge and said margin and threading into the bottom of the channel.

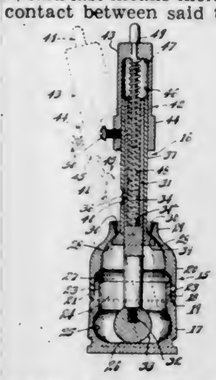
2,161,997
STOVEPIPE
Charles Chapman, Clackamas County, Oreg.
Application June 27, 1938, Serial No. 216,023
2 Claims. (Cl. 138—74)



1. A transversely expansible pipe section, comprising a body portion having a longitudinal seam, each edge being reversely bent to form a double-looped portion with an outwardly extending free portion, said free portions overlapping and engaging each other and a locking key adapted to enter the ends of the outer loops for adjustably drawing the edges together and one free portion adapted to enter the inner loop carried by the opposite wall of the seam.

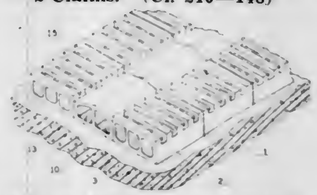
2,161,998
MORTAR AND PESTLE
Edward L. Chott, Chicago, Ill.
Application April 21, 1937, Serial No. 138,077
6 Claims. (Cl. 83—10)

3. A mortar and pestle as described wherein said pestle is adapted to be maintained in contact under pressure with the mortar, comprising pivot means for said pestle, a tubular member forming part of said pivot means, a tubular recess in said pestle, a spring retained in said member and recess and adapted to be compressed therebetween, and means to selectively vary said spring compression, said last means including a variably positioned contact between said tubular member



and said mortar and means to register said pressure.

2,161,999
FILTER TILE
Llewellyn M. Christie, Edward F. Wanner, and Arthur S. Brewer, Pittsburgh, Pa., assignors to National Fireproofing Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 23, 1935, Serial No. 12,698
2 Claims. (Cl. 210—148)



1. A trickling filter floor comprising rows of hollow filter blocks in end to end relation each having a plurality of partition walls dividing the hollow blocks into parallel drain troughs extending longitudinally of the blocks and rows to provide uninterrupted flow passages through successive blocks, the top of the blocks having horizontal walls provided with slots transversely of the drain troughs and extending below the top wall of the partition walls to form a grid structure to support a filtering bed thereon.

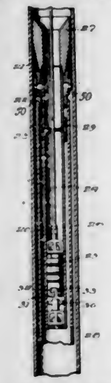
2,162,000
ELECTRIC SWITCH
Alfredo Cianchi, London, England
Application November 5, 1937, Serial No. 173,031
In Great Britain November 7, 1936
12 Claims. (Cl. 200—112)



1. An electric switch comprising a vessel containing a body of conducting liquid, a movable

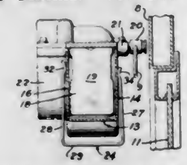
plunger in said vessel containing a conducting liquid, an electrode passing through the wall of the vessel into said first body of conducting liquid, a second electrode passing through the wall of the vessel into said second body of conducting liquid, magnetic means for actuating said plunger to vary the extent of immersion thereof in said first body of conducting liquid selectively to establish and break electrical contact between said electrodes, and a plurality of guiding means disposed at points spaced longitudinally in the direction of movement of said plunger within said vessel for guiding said plunger clear of the wall of said vessel, with at least one of said guiding means associated with said vessel and extending in the direction of movement of said plunger.

2,162,001
WELL PUMP
William Fred Cox, Irving, Tex.
Original application June 25, 1936, Serial No. 87,310. Divided and this application December 18, 1937, Serial No. 180,625
7 Claims. (Cl. 103—181)



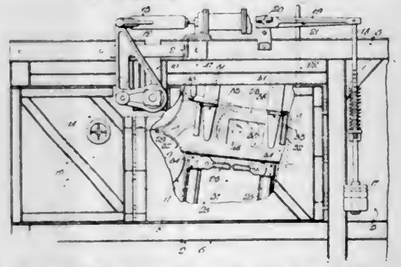
1. In a well pump, the combination of a working barrel, a packer sleeve surrounding the barrel, a mandrel on said barrel for radially expanding said sleeve, a standing valve and a traveling valve in the barrel, a sucker rod attached to the traveling valve for reciprocating the latter, and interlocking connections between said valves for supporting the working barrel on the sucker rod, said connections being releasable to free the traveling valve and rod from the standing valve, said traveling valve and rod being removable from the well independently of the barrel when freed.

2,162,002
WINDSHIELD WIPER CASING CLAMP
Ellwood L. Davis, Oakland, Calif.
Application October 12, 1936, Serial No. 105,296
6 Claims. (Cl. 121—1)



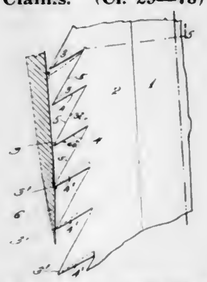
1. In combination with an automobile windshield wiper having a vacuum motor consisting of a casing having a vane movable therein with the sides of the vane engaged with said casing, a clamp having opposed sides adapted for engagement with opposite sides of said casing for pressing the same in the direction of said vane.

2,162,003
FULLING MILL
Robert L. Dawson, Piqua, Ohio, assignor to The Orr-Felt & Blanket Company, Piqua, Ohio
Application March 25, 1938, Serial No. 198,143
11 Claims. (Cl. 26—21)



1. In a fulling machine having a casing and material pushing means therein; a crimp box in said casing through which the material is pushed by said pushing means, said crimp box having vertical side walls mounted for relative adjustment toward and from each other, and means extending from said crimp box to the exterior of said casing for relatively adjusting said side walls according to the width of the material to be fulled and for holding said walls in fixed relation after adjustment.

2,162,004
SCYTHE SHARPENER
Charles E. Delaney, Gillespie, Ill.
Application August 13, 1938, Serial No. 224,720
2 Claims. (Cl. 29—78)

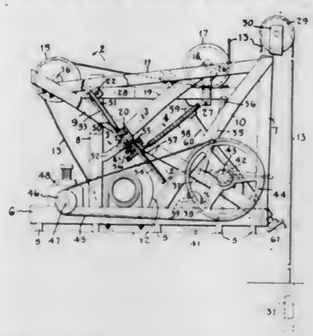


1. A scythe sharpener comprising a flat steel body strip having a handle at one end and beveled at its side edges to a sharp toothed edge on opposite side edges of said strip, the teeth on both said edges being pointed downward toward the handle and each tooth formed by a transverse lower face inclined approximately 60° to the length of said strip, and an upper transverse face inclined approximately 30° to the length of said strip, and both said transverse faces meeting the beveled side faces so as to form a sharp point, substantially as described.

2,162,005
WELL DRILLING MACHINE
Howard H. Elmire, Arlington, N. J.
Application October 21, 1937, Serial No. 170,148
6 Claims. (Cl. 255—11)

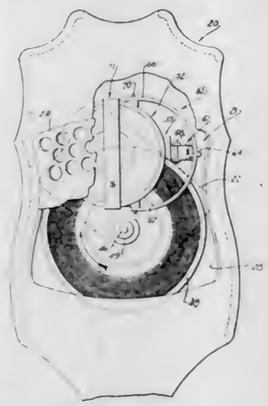
1. A well drilling machine having in combina-

tion, a frame, a cable-storage drum, a stationary sheave, a pair of beams pivotally mounted in said frame, a sheave carried by said beams, a cable passing from said storage drum over said stationary sheave and under the sheave carried by said beams, means whereby said sheave is reciprocated



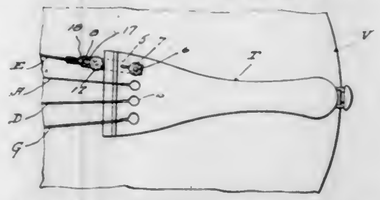
in a vertical plane, and means in permanent operative relation with the pivot of one of said beams whereby the said pivot may be moved in relation to the pivot of the other of said beams to vary the stroke thereof; said means being operable while said machine is functioning.

2,162,006
PHONOGRAPH
Ernest W. Franck, Paterson, N. J., and Hazard E. Reeves, New York, N. Y.
Application August 28, 1934, Serial No. 741,766
Renewed May 3, 1938
23 Claims. (Cl. 274—14)



9. In a phonograph, a spring motor, a record supporting shaft driven by said motor, a sound reproducer for cooperation with a record on said shaft, an arm mounting said reproducer, means pivotally mounting said arm for rocking movement to carry the reproducer toward and from the record, said motor including a winding shaft, a part about said shaft, spring means acting on said part, a key for said shaft and operable to move said part against said spring on application of the key to the shaft, and said part when so moved by the key operable to hold the reproducer away from the record and to prevent unwinding of the motor.

2,162,007
VIOLIN STRING TENSIONING DEVICE
Michael Gambino, Philadelphia, Pa.
Application September 1, 1938, Serial No. 228,021
3 Claims. (Cl. 84—302)



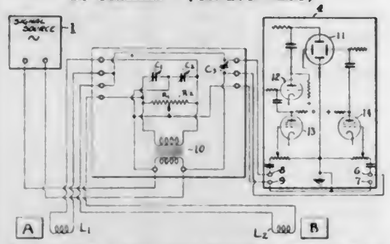
1. A violin string accommodation and tensioning attachment for a conventional tail-piece comprising a longitudinally elongated one-piece bar unit having a right angularly disposed rigid stud and clamping nut at one end for operative connection with the keyhole slot in the tail-piece, the opposite outer end of said bar being thickened to provide a riser, said riser being bifurcated, a nut superimposed upon and formed integral with the inner end portions of the furcations, a horizontal pivot pin mounted in the outer free end portions of said furcations, said furcations and nut forming a sturdy sheath, an L-shaped lever, one limb thereof being interposed for movement between the furcations, the other limb extending above the furcations and being provided with a string loop accommodation kerf, said lever at the juncture of said limbs being mounted on said pivot, the upper end of the kerf equipped limb terminating on a plane below the top of said nut, an adjusting screw having a finger-piece and threaded stem, said stem being threaded downwardly through said nut and projectable to a point between the furcations for engagement with the underlying portion of the first named limb.

2,162,008
FOOTWEAR
Louis J. Golden, Highland Park, Ill., assignor to B and B Shoe Company, Chicago, Ill., a corporation of Illinois
Application November 14, 1935, Serial No. 49,743
4 Claims. (Cl. 36—45)



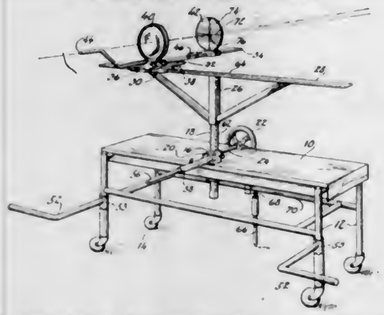
1. A shoe comprising a vamp, a quarter piece secured to the vamp along an upstanding side portion thereof, said quarter piece extending around the rear of the shoe and having an opposite upstanding edge secured to an instep piece interposed between the quarter piece and vamp, means for securing said shoe upon the foot comprising means to overlap said vamp and instep pieces, said vamp and instep pieces having releasable fastening means thereon to join said pieces, releasable fastening means to join said instep piece and said quarter piece, and releasable fastening means to join opposite sides of said quarter piece.

2,162,009
CATHODE RAY CYCLOGRAPHIC BRIDGE BALANCE INDICATOR
Thomas T. Goldsmith, Jr., Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Upper Montclair, N. J., a corporation of Delaware
Application December 16, 1937, Serial No. 180,167
16 Claims. (Cl. 175—183)



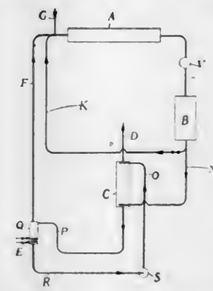
1. A cathode ray cyclographic bridge balance indicator comprising a source of signal current, a bridge circuit, means for applying signals from said source to said bridge circuit, an oscillograph, means for applying the voltages from said bridge to the deflection plates of said oscillograph, means for affecting the electrical characteristics of one arm of said bridge by a standard sample, means for affecting the electrical characteristics of a second arm of said bridge by a second sample, and means for coupling the output circuit of said bridge to its input circuit.

2,162,010
APPARATUS FOR TESTING THE HEADLIGHTS OF MOTOR VEHICLES
George M. Graham, Detroit, Mich., assignor to Hinckley-Myers Company, Jackson, Mich., a corporation of Michigan
Application May 29, 1936, Serial No. 82,419
9 Claims. (Cl. 88—14)



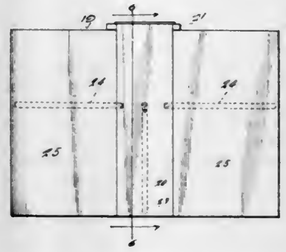
8. Apparatus for supporting a motor vehicle headlight testing device comprising, in combination, a substantially horizontal support having a length at least equal to the distance between the headlights of a motor vehicle, a brace slidably mounted on said support for movement longitudinally thereof a distance equal at least to the distance between the headlights of a motor vehicle, a member carrying headlight testing instrumentalities including a level indicating device, means for pivoting said member to said brace about a horizontal axis, and means carried by said brace adjustably supporting said member relative thereto and adapted upon adjustment to swing the member about said pivotal axis and vary the inclination of the member relative to the brace.

2,162,011
DEHYDROGENATION OF SATURATED HYDROCARBONS
Henri Martin Guinot, Melle, Deux-Sevres, France, assignor to Les Usines de Melle, a corporation of France
Application December 17, 1935, Serial No. 54,955
In France December 27, 1934
8 Claims. (Cl. 260—683)



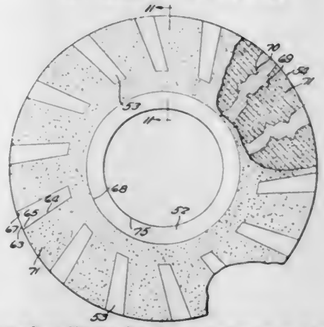
4. A process for the conversion of saturated paraffin hydrocarbons into the corresponding olefine hydrocarbons comprising passing the saturated hydrocarbons over a dehydrogenation catalyst consisting essentially of oxide of divalent chromium.

2,162,012
COMBINATION RANGE AND TABLE
Harrison M. Herrin, Kansas City, Kans.
Application June 30, 1938, Serial No. 216,849
1 Claim. (Cl. 312—164)



A gateleg table for nesting in a cabinet having an open front open bottom vault therein, said table comprising a rectangular top adapted to fit endwise into said vault, a front compartment section of substantially the same width as said top, a pair of side leaves hinged to said top to fold downwardly alongside said section against the same, a fixed U-shaped leg in the longitudinal center of said top and having its free end connected to the top and to the bottom of said section, respectively, to extend rearwardly thereof, and a pair of legs similar to the first mentioned leg upon opposite sides of said first mentioned leg and having the free ends thereof hinged to said top and to said bottom of said section, respectively, for folding of said pair of legs behind the folded leaves, respectively, to extend rearwardly from the sides of said section, said pair of legs being swingable outwardly into laterally extended right angular relation to the sides of said section to support said leaves when unfolded and being limited as to said swinging movement in such relation to the section.

2,162,013
ABRADING WHEEL
Ferdinand J. Hohnhorst, Covington, Ky.
Application February 5, 1938, Serial No. 188,871
10 Claims. (Cl. 51—206)



1. An abrading wheel comprising a foundation the outer periphery of which is in the cylindrical face of said wheel and is an abrading surface and provided with spaces all of which extend longitudinally from the inner portion of said foundation slantingly in similar directions about the axis thereof and are open at such outer periphery, and abrading composition in said spaces the outer periphery of which is in said cylindrical face and is an abrading surface complemental to said first-named abrading surface, said abrading surfaces respectively being of substantial angular width and extending lengthwise of the axis of said wheel and alternating repeatedly about said cylindrical face, and said foundation being of substantially greater weight than said abrading composition to impart a fly-wheel effect to the abrading wheel.

2,162,014
ANTISEPTIC AND PROCESS OF MAKING IT
Russell Hopkinson and Alexander V. Tolstoouhov, New York, N. Y., assignors to Ostro Research Laboratories, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application November 14, 1935, Serial No. 49,710
17 Claims. (Cl. 167—71)

1. An antiseptic comprising a water soluble compound of the general formula

$$(HSO_3)_n\text{—}Y\text{—}\left(N{:}N\text{—}Y\begin{matrix}HgX\\OH\end{matrix}\right)_n$$

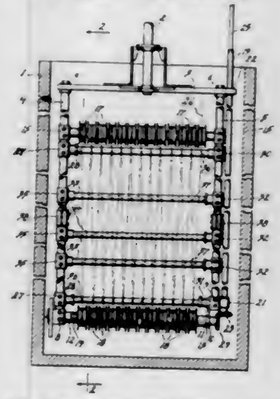
in which X is an acid radical, Y is aryl, and n is one or two.

17. The process of producing a water-soluble antiseptic compound which comprises treating the product resulting from coupling a diazotized amino aryl sulphonic compound and a hydroxy aryl compound having a mercury substituent in the ring, said mercury having an acid radical attached thereto with an acid solution at a pH of less than about 1.5.

2,162,015
PRESERVATION OF TANNED LEATHER
Alfred W. Hoppenstedt, Buffalo, N. Y., assignor to J. A. Webb Belting Co., Inc., Buffalo, N. Y.
No Drawing. Application September 23, 1936, Serial No. 102,255
5 Claims. (Cl. 149—6)

2. The method of correcting and inhibiting a condition of rot in tanned leather, which comprises impregnating such leather with an organic nitrogenous base in a quantity sufficient to raise the pH value of the leather to between 3.0 and 4.0.

2,162,016
PHOTOGRAPHIC FILM TREATING APPARATUS
Albert S. Howell, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application February 21, 1935, Serial No. 7,599
3 Claims. (Cl. 95—94)



1. In a photographic treating apparatus the combination with means defining a film strip path comprising two spaced series of revoluble rollers, of a circulation pipe means forming a support for said rollers and extending between said two series of rollers and provided with a lateral branch between said two series of rollers, said lateral branch being perforated therealong.

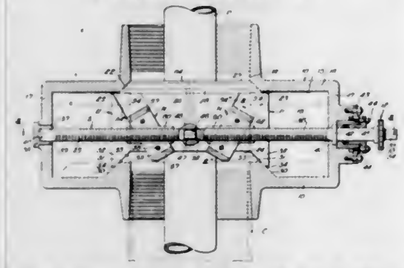
2,162,017
BEATING AND MIXING DEVICE
Arthur Illsche, Rye, N. Y.
Application June 28, 1937, Serial No. 150,795
2 Claims. (Cl. 259—132)



1. A beater and mixer, comprising two unit assemblies, one unit assembly consisting of a body member carrying hand-operated gearing for driving beater and mixer elements, the other unit assembly consisting of beater and mixer elements

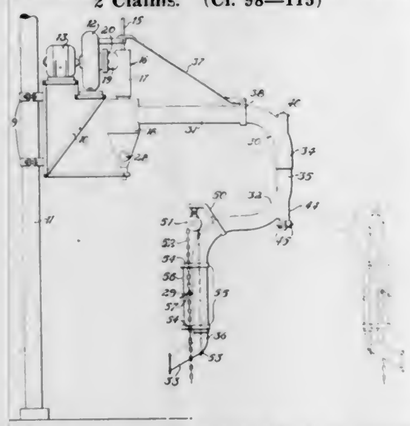
and their carrying shafts, and a spring latch, carried by a gear on the body member, co-operating with the shaped end of the beater and mixer shaft, driven by said gear, to separably connect the two unit assemblies in operative relation.

2,162,018
BLOW-OUT PREVENTER
Melvin C. Inge, Brea, Calif.
Application May 25, 1937, Serial No. 144,647
12 Claims. (Cl. 251—57)



1. A blowout preventer for use on a well casing comprising a body having an opening for registering with the opening of the casing, a seat in the body around the body opening, shiftable gates in the body, means for moving the gates toward one another in a direction transverse of the longitudinal axis of the body opening to engage about an object in the body opening, and means for shifting the gates upwardly during their inward movement to engage against the seat.

2,162,019
DUST REMOVING APPARATUS
Eric R. Johnson, Malden, Mass., assignor to Carl F. Berg, Boston, Mass.
Application May 28, 1938, Serial No. 210,604
2 Claims. (Cl. 98—115)



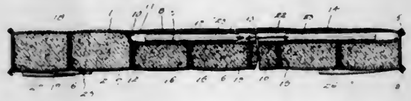
1. In a dust removing apparatus, in combination, an air pump, a conduit of substantially uniform diameter having one end open to receive dust and having a connection at its other end to the inlet of said pump, said conduit having spaced curved parts between its ends and comprising two separate portions connected between said curved parts so that one portion may be rotated relative to the other portion to permit the open end of said conduit to be positioned adjacent the source of dust, a rod providing a bearing for rotatably supporting said rotatable conduit portion and fixed to the other conduit portion, and a sleeve surrounding said rod and fixed to said rotatable conduit portion.

2,162,020
HYDROMETER
Evar Johnson, Rockford, Ill., assignor to Edward A. Morsbach, Rockford, Ill.
Application January 12, 1938, Serial No. 184,507
5 Claims. (Cl. 265—45)



1. A hydrometer comprising a transparent tube, flexible means at one end of the tube for insertion in a solution to be drawn into said tube, means for drawing liquid into said tube, a hydrometer float in the tube for testing the liquid and a wiper contacting the inner walls of said tube and adapted to encompass said float during a portion of the wiping operation, and reciprocable means connected to said wiper and projecting through the end of said tube opposite said flexible means for manual actuation of the wiper to wipe foreign matter from the inner surface of the tube.

2,162,021
HEATED MATTRESS
Grover C. Kidwell, Madison, Ind.
Application December 1, 1936, Serial No. 113,668
Renewed May 2, 1939
3 Claims. (Cl. 5—347)



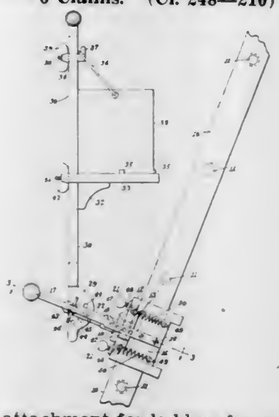
1. A mattress, comprising a casing having top, bottom, side and end walls, a pair of spaced intermediate walls between and parallel with the top and bottom walls, said intermediate walls both being joined with one end wall and with both side walls, one side wall having a longitudinal opening cut therein between the intermediate walls providing access to the area between the intermediate walls, the said intermediate walls being joined together and to the top wall along a transverse line spaced from the other end wall of the casing, and stuffing material filling the casing and lying above and below the said intermediate walls, said last walls together forming a pocket in the mattress body.

2,162,022

ADJUSTABLE LADDER ATTACHMENT FOR SUPPORTING PAINT PAILS

Roger Mansfield, Dorchester, Mass.

Application April 6, 1938, Serial No. 200,307
6 Claims. (Cl. 248—210)



1. An attachment for ladders for use by painters and similar workmen comprising a device slidable lengthwise of a side bar of a ladder and adapted to be clamped thereto, an elongated arm pivotally mounted on said device and extending upwardly therefrom, means for locking said arm in vertical position regardless of the inclination of the latter, a support for a paint pail adjustable lengthwise of said arm and to various heights above said clamping device, and means for locking said support to said arm in adjusted position.

2,162,023

DETERGENT COMPOSITION AND PROCESS OF MAKING SAME

Samuel J. Miller, Boris Sway, and Edward P. Breckel, Cincinnati, Ohio, assignors to The Du Bois Soap Company, Cincinnati, Ohio, a corporation of Ohio

No Drawing. Application November 30, 1934, Serial No. 755,360
4 Claims. (Cl. 87—5)

3. A free flowing granular detergent composition, comprising, water soluble fatty acid soap, cresylic acid, diethylene glycol, and an alkali selected from the group consisting of trisodium phosphate, sodium metasilicate, soda ash and sodium hydroxide, and an absorbent earth, the intercomponent ratio between the diethylene glycol and cresylic acid and absorbent earth of said composition extending from substantially one part to one part to five parts respectively, to one part to four parts to twenty parts respectively.

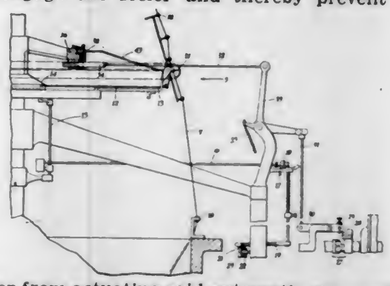
2,162,024

KNITTING MACHINE

Robert Kirkland Mills, Sherwood, Nottingham, England, assignor to Wrightwear Limited, Sutton-in-Ashfield, Nottinghamshire, England

Application November 26, 1937, Serial No. 176,747
In Great Britain November 27, 1936
3 Claims. (Cl. 66—158)

1. In a circular knitting machine having manually operable control means for starting and stopping the same, and automatic stop mechanism of the type specified, including a movable thread feeler arranged upon thread breakage or failure of the thread supply to actuate said mechanism to automatically stop the machine, the combination of an arcuately movable ring provided with a projection arranged to be moved into and out of engagement with said feeler; means operable by said control means arranged to induce movement of said ring, when the machine is stopped by hand, to cause its projection to engage the feeler and thereby prevent the



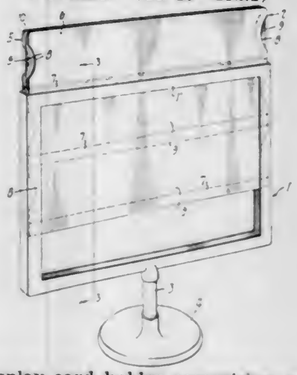
latter from actuating said automatic stop mechanism, said means also functioning to induce movement of the ring to disengage the projection from the feeler when the machine is manually re-started through said control means; and means for delaying said disengagement of the projection from the feeler until the machine is in motion.

2,162,025

CARD HOLDER

Charles D. McClaughry, Piedmont, Calif.

Application May 28, 1938, Serial No. 210,711
7 Claims. (Cl. 40—152.1)



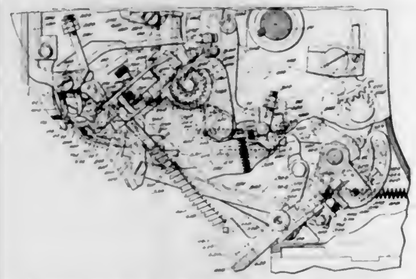
5. A display card holder comprising a pair of spaced, opposed normally vertically disposed substantially rectangular sheets of imperforate transparent material arranged with their corresponding edges substantially parallel, a plurality of horizontally extending vertically spaced, parallel strips securing said sheets in spaced relation and arranged and adapted to provide horizontally extending, flat, open-ended passageways between the strips for insertion and removal of display cards from either of the opposite open ends of said passageways to between said sheets for viewing opposite sides of said card through the transparent sheets, one of said sheets having one of its lateral margins projecting laterally outwardly of the corresponding margins of the other sheet for supporting and guiding the advancing edges of said display cards to within the respective passageways and one of said sheets being formed along opposite lateral edges at the opposite ends of each of said passageways with laterally outwardly opening recesses for exposing the opposite ends of cards within said passageways for engagement by the fingers of an operator to facilitate the withdrawal of said cards from either of the lateral edges of the holder, and the opposite outer surfaces of said sheets respectively being planar with the said strips lying wholly within the area between said sheets whereby the said outer surfaces are smooth and free from projections that would normally tend to accumulate dirt and obstruct the cleaning of said surfaces.

2,162,026

SHOE MACHINE

Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application May 25, 1935, Serial No. 23,462
21 Claims. (Cl. 112—46)



1. A welt sewing machine having, in combination, feeding and stitch forming devices including a needle for sewing a welt to the shoe, a welt guide having a portion substantially surrounding the welt to engage with and guide the welt adjacent the sewing point, a welt feeding finger arranged to engage the welt within said portion of the welt guide, and means for feeding said finger to engage the welt within said portion of the guide and to advance the finger through and beyond said guide to position the welt for the start of a new operation.

2,162,027

PLASTICIZATION OF CELLULOSE ETHERS

Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application August 31, 1937, Serial No. 161,797
7 Claims. (Cl. 23—240)

1. A method of preventing metal pick up by an alkali metal hydroxide in a metallic container which comprises coating the inner surface of said container with an ether of cellulose admixed with an alkyl naphthalene.

2,162,028

CELLULOSE ETHER COATING COMPOSITION

Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application June 25, 1938, Serial No. 215,871
11 Claims. (Cl. 134—79)

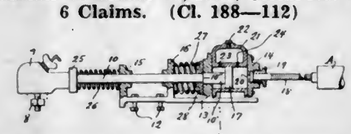
1. A coating composition, capable of forming tough adherent, impermeable films which are resistant to the attack of corrosive chemicals, which comprises 1.5 parts by weight of diamyl naphthalene, 6 parts by weight of ethyl cellulose, 3 parts by weight of titanium dioxide, 22.5 parts by weight of ethyl alcohol, 42.7 parts by weight of toluene, 22.5 parts by weight of xylene, and 2.3 parts by weight of methyl cellosolve acetate.

2,162,029

TRAILER HITCH

Alfred Paul, Jr., Paul Spur, Ariz.

Application November 17, 1937, Serial No. 175,116
6 Claims. (Cl. 188—112)



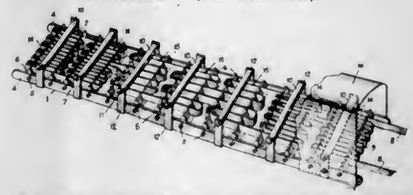
1. A combined hitch and brake applying device comprising a supporting bar adapted to be mounted on a trailing vehicle, said supporting bar having spaced guide bearings thereon and a cylinder nounted on said bar, a coupling rod slidably working through said guide bearings, a piston on one end of said rod having a working fit in said cylinder, said coupling rod having a free end adapted to be connected with a draft vehicle, a brake applying cylinder for the trailing vehicle and a conduit connected at one end thereof with the first-mentioned cylinder and at its opposite end with the brake applying cylinder.

2,162,030

HEATING DEVICE FOR GLASS LEHRS AND THE LIKE

Louis P. Piazzoli, Jr., Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a corporation of Delaware

Original application April 21, 1930, Serial No. 445,886. Divided and this application July 3, 1936, Serial No. 88,748
6 Claims. (Cl. 201—74)



1. A heating unit for an electric lehr, comprising a supporting structure adapted to be mounted in the lehr, a resistance element formed of a strip of material bent into a series of loops and mounted upon said supporting structure and positioned thereon to radiate heat in a vertical direction, the loops of said strip at the ends of the heating unit being adapted to produce more heat per unit of length of the heating unit than the loops at the middle thereof, and a shield mounted on the supporting structure and extending over said resistance element, said shield distributing more heat at its end portions than at the middle thereof.

2,162,031

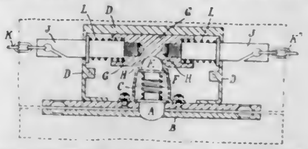
SPRING DOOR LOCK

Frederick Reavill, Beeston, England

Application August 1, 1938, Serial No. 222,504
In Great Britain May 8, 1937
4 Claims. (Cl. 292—74)

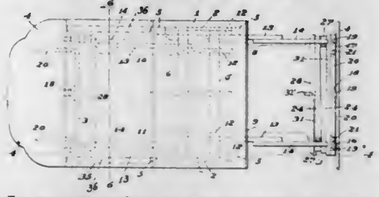
1. In a spring door lock, the combination of a main casing, an auxiliary casing disposed within said main casing, a pair of catch members co-axially mounted in said auxiliary casing in reversed

positions for movement relative to one another, the outer end of one of said catch members adapted to extend outside of the main casing for engaging a catch plate and the outer end of the other of said catch members adapted to extend through the auxiliary casing, a spring disposed in said auxiliary casing between the inner ends of said catch members for normally maintaining the



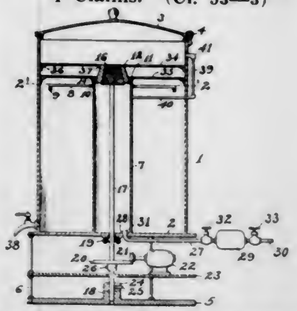
outer ends thereof projecting outwardly, and a slide mounted in said main casing and having a cam surface engageable with the outer end of the catch member which extends through the auxiliary casing for moving the said catch member inwardly of the auxiliary casing to a position against the inner end of the other of said catch members for locking the same in engagement with the catch plate.

2,162,032
EXTENSION TABLE
Edward G. Rudman, Nashua, and Francis G. Ranney, Hudson, N. H., assignors to Edward G. Rudman, Nashua, N. H., and Sidney S. Rudman, Brookline, Mass., copartners doing business as Old Colony Furniture Co.
Application October 8, 1937, Serial No. 167,882
3 Claims. (Cl. 311—41)



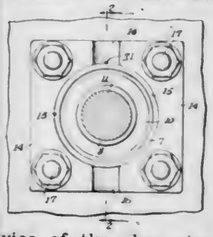
1. In an extension table the combination comprising a main section and an extensible section slidably interconnected, said main section including an unbroken table top and stationary legs supporting said top, said extensible section including extension rails normally nested within said table top and displaceable outwardly therefrom with determinate limits of extension and retraction, a drop leaf, means for mounting said drop leaf to lie supported from off the ends of the set of extension rails having the outermost extension when said extensible section is extended in spaced relation thereto whereby the drop leaf will co-ordinate with said table top when said extensible section is in full retracted position, or with an inserted table leaf when said extensible section is extended, means for supporting said drop leaf when in its upturned position, foldable legs for supporting said extensible section when extended, means for hingedly connecting said foldable legs to the outermost set of said extension rails to lie when folded beneath said rails with extension in opposing directions whereby said extension legs will ride upon said rails and be nested beneath said table top when said extensible section is in its full retracted position, or said foldable legs occupy a vertical position supporting said extensible section when extended, and means for controlling said foldable legs to obtain and maintain their respective folded and extended positions.

2,162,033
COFFEE BREWER
Theodore Schulze, Cleveland, Ohio
Application June 8, 1937, Serial No. 146,991
4 Claims. (Cl. 53—3)



1. In a coffee brewer, the combination of a casing, the casing having a bottom, a chamber having one end closed by said bottom, the chamber having an opening communicating with said casing, means for admitting water under pressure to said closed end of the chamber, a mill, the mill being located in the opening of the chamber into the casing, and said mill being removable to permit the depositing of coffee beans in said chamber.

2,162,034
BEARING
Raymond R. Searles, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application August 24, 1936, Serial No. 97,482
7 Claims. (Cl. 308—184)

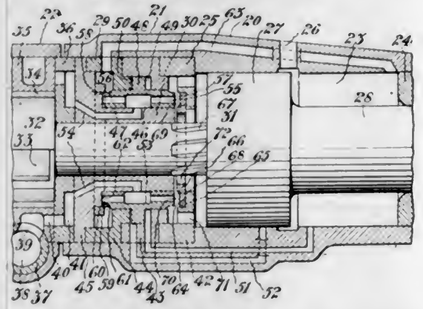


1. In a device of the character indicated, a pair of housing blocks formed of sound deadening material, each block having an arcuately formed surface for engaging a bearing held between said blocks, a flexible base member connecting said housings, and means for securing all of said parts to a support.

2,162,035
RESINOUS COMPOSITION AND PROCESS OF MAKING SAME
Fritz Seebach, Erkner, near Berlin, Germany, assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application September 30, 1936, Serial No. 103,355. In Germany October 14, 1935
6 Claims. (Cl. 260—59)

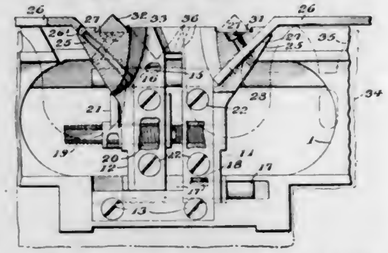
1. Process of preparing a resin having a plastic flow under the action of heat and pressure so as to be moldable into a coherent article without the addition of a filler and without undue exudation which comprises passing a phenol-aldehyde resin of novolak type melting at about 70° C. or higher with hexamethylenetetramine as a hardening agent and from 10 to 30 per cent by weight of the mixture of water through rolls heated at about 110° C. to form a homogeneous heat-hardening product reacted to a melting point advanced about 10 to 30 degrees while retaining solubility in ethyl alcohol or acetone, drying, and again milling the product but removing the product before the resitole stage of insolubility is reached.

2,162,036
ROCK DRILL
William A. Smith, Sr., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application October 19, 1937, Serial No. 169,772
3 Claims. (Cl. 121—19)



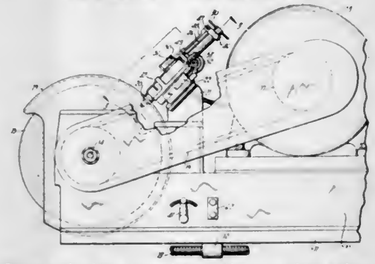
1. In a fluid actuated rock drill, the combination of a cylinder and a piston, a valve chest having a valve chamber, inlet passages leading from the valve chamber to the cylinder, an annular valve reciprocable in the valve chamber to control the flow of pressure fluid to the inlet passages and having seating surfaces on its ends, seats at the ends of the valve chamber for the seating surfaces of the valve, and means adjacent one seat cooperating with the inner and outer surfaces of the valve to cut off the flow of pressure fluid to an end of the cylinder during a portion of the movement of the valve.

2,162,037
SAW FILING TOOL AND GAUGE
Matija Svet, Sheffield, Pa.
Application January 4, 1938, Serial No. 183,366
8 Claims. (Cl. 76—46)



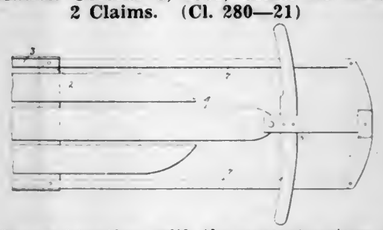
1. A saw filing tool comprising a frame, said frame being provided with a two-element tooth clamp, said clamp being provided with a tooth retaining slot extending partly into each element, one of said elements being movable towards the other element to clamp a saw tooth in said slot, and a second tooth engaging slot formed partly in each element and being wider than the first-named slot, said slots being in communication with each other to permit a tooth to be moved from one slot to the other.

2,162,038
GRINDING MACHINE
Winthrop Trible, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application May 17, 1937, Serial No. 143,055
12 Claims. (Cl. 51—166)



1. In a grinding machine, the combination with a grinding wheel and a variable speed motor for effecting rotation thereof, of a truing device having a followup movement whereby same may be effectively projected into engagement with the periphery of the grinding wheel during reduction in diameter thereof, electro-mechanical means for varying the speed of said motor, and operative connections between the truing device and said means for increasing the potential rate of motor operation as the truing device is moved in a direction toward the wheel.

2,162,039
SLED
Frederick A. Vastano and Julius Otten, Paterson, N. J.
Application October 5, 1938, Serial No. 233,419
2 Claims. (Cl. 280—21)

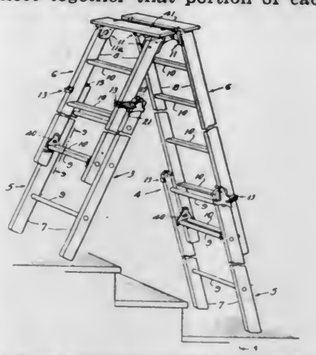


1. In combination, with the superstructure of a sled, runners carrying the superstructure and each comprising fore and aft portions having their adjoining terminals pivoted together on a vertical axis, the fore portion of each runner being angularly displaceable upwardly on the aft portion as a fulcrum, and spring means opposing upward displacement of the fore portion.

2,162,040
LADDER CONSTRUCTION
Willard M. Webster, Los Angeles, Calif.
Application February 28, 1938, Serial No. 193,119
4 Claims. (Cl. 228—21)

1. A ladder construction comprising two step ladders, each of said step ladders being convertible into the extension type ladder, and a pair of laterally projecting bracket arms carried by the top portion of each of said step ladders, there being a platform overlying a portion of each of

said pair of bracket arms, and means to detachably connect together that portion of each pair



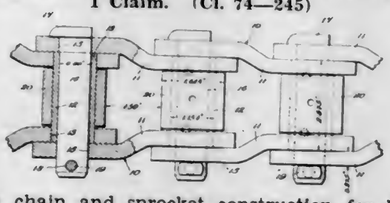
of bracket arms which projects beyond the platform at its side of the connected step ladders.

2,162,041
FURNACE
Harvey C. Weller, Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of New York
Application August 18, 1937, Serial No. 159,747
14 Claims. (Cl. 263—8)



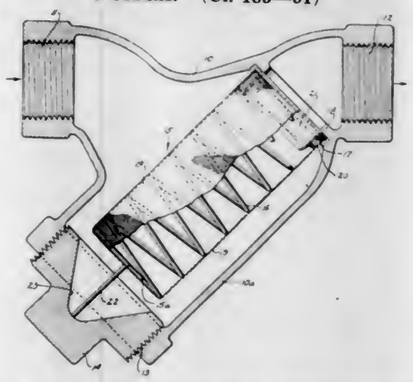
1. In a furnace, the combination of a recuperative chamber and a heating chamber forming a tunnel, means for moving work into and out of the tunnel in a U-shaped path, the return bend of said path being in the heating chamber and the legs of said path extending through the recuperative chamber, means for producing a rising temperature gradient in the tunnel in direction toward the heating chamber, said last named means comprising a heating tube within the recuperative chamber lengthwise thereof, a substantial portion of said tube being in closer heating proximity to the incoming work than to the outgoing work, and means for causing heating gases to flow through said tube in direction opposite to that of the incoming work.

2,162,042
HIGH SPEED CHAIN AND SPROCKET TRANSMISSION
Brinton Welser, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 19, 1937, Serial No. 126,698
1 Claim. (Cl. 74—245)



A chain and sprocket construction for high speed power transmissions, in which the pressure angle is substantially 62.5 degrees, and in which the height of the sprocket teeth bears to the chain pitch substantially the ratio of 0.63 to 1, each working face of a sprocket tooth being defined by a root curve having a radius approximately equal to that of the chain element engaging therewith, and an entering curve having a radius which bears to the chain pitch substantially the ratio of 0.4 to 1, said curves being connected by a plane surface which is substantially perpendicular to the line of pressure.

2,162,043
GAS FILTER
Karl W. Westlund, Huntington Park, and Ernst J. Dahlen, Inglewood, Calif., assignors to Ensign Carburetor Co. Ltd., Huntington Park, Calif., a corporation of California
Application May 3, 1938, Serial No. 205,744
3 Claims. (Cl. 183—51)

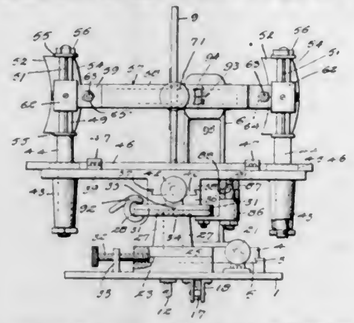


1. In a filter of the character described, a hollow body having a fluid flow passage therethrough including a port, an annular seat formed in the body around the port, a filter element comprising a spiral spring skeleton, one end of which is formed to annular shape, a filter fabric enclosing the sides of the skeleton and its other end, the end edge of the fabric being pulled over and within the annular end formation of the skeleton, and a fabric holding and seat forming ferrule having a cylindric part entering the annular end formation and pinching the fabric edge against said end formation and having an annular seat flange at its outer end overlying the fabric where the latter is pulled over the end formation, said ferrule being of substantially the same diameter as the body port and said annular flange seating on the body seat surrounding said port, the body having an opening opposite the body seat and through which the filter element is insertible, and means closing said opening and adapted to exert endwise pressure upon the closed end of the filter element to hold its annular seating flange on the body seat.

2,162,044
GRINDING MACHINE
Walter J. Wilson, Petersburg, Ind.
Application September 15, 1938, Serial No. 230,098
15 Claims. (Cl. 51—100)

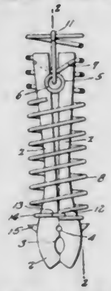
1. A grinding machine of the character described, comprising a rotatable grinding disk, a carrier for a body to be ground against the edge of said disk, means forming a pair of vertically spaced guides adjacent the disk and disposed at opposite sides of the vertical plane of the same,

and means forming a part of said carrier for sliding contact with said guides, said guides being so constructed and arranged that the carrier when



moved vertically along the same will move the said body in a vertical arcuate path against the edge of said disk and in a curved path in a plane perpendicular to the arcuate path.

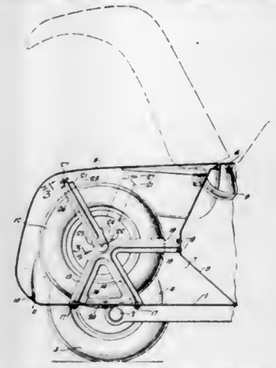
2,162,045
CLOTHESPIN
Ralph E. Winkler, Helena, Mont.
Application October 5, 1938, Serial No. 233,451
5 Claims. (Cl. 24—137)



3. A clothespin comprising a pair of elongated, complemental swinging jaws, a substantially U-shaped, resilient clip mounted on said jaws, elongated, arcuate guides on the legs of said clip, a coil spring encircling the jaws and the clip, a slip ring on one end of said coil spring operable in the guides for opening and closing the jaws, and a transverse coil on the other end of said spring, said coil passing between one end portion of the jaws and constituting a fulcrum therefor.

2,162,046
AUTOMOBILE STORAGE COMPARTMENT
Harold H. Albinson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 17, 1937, Serial No. 148,648
1 Claim. (Cl. 224—29)

An end storage compartment construction for motor vehicles, including a dash panel, a body floor panel projecting beyond the dash panel to provide a storage platform, and having a seat for a spare tire, a pair of pressed metal body braces extending in parallel vertical planes normal to the floor and dash panels on opposite sides of said seat to receive a spare tire therebetween, means connecting the opposite ends of the braces at diagonally spaced points to the dash panel and floor panel, respectively, a tire engaging seat connecting the vertically disposed body braces in circumferentially spaced relation to said floor seat

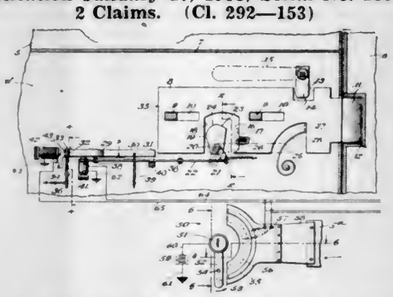


and a tire retaining member hinged to said braces to maintain a tire in engagement with both of said seats.

2,162,047
METHOD AND COMPOUND FOR TREATING MEATS
Hugh E. Allen, Evanston, Ill., assignor of one-half to Albert G. McCaleb, Evanston, Ill.
No Drawing. Application May 14, 1937, Serial No. 142,627
5 Claims. (Cl. 99—16)

4. A stable liquid compound for injection into meat roasts, to minimize roasting shrinkage, said compound comprising mono-sodium glutamate dissolved in sterile water with approximately twice its own weight of sodium chloride.

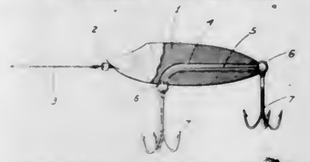
2,162,048
LOCKING MECHANISM FOR MOTOR VEHICLE DOORS
Wade H. Askew, Mobile, Ala.
Application January 17, 1938, Serial No. 185,442
2 Claims. (Cl. 292—153)



1. A lock structure, comprising, a housing formed with a pair of spaced walls, a bolt slidably mounted in said housing and operable to projected and retracted positions, outside and inside bolt actuating members rotatably mounted on and extending through said walls respectively and connectable with said bolt for independently operating the latter to retracted position, said inside member operable to a latched position to maintain said bolt in projected position, a latch device carried in said housing and operable for latching said bolt in projected position when the latter is in retractible condition, said latch device responsive to movement of said inside member when the latter is actuated to

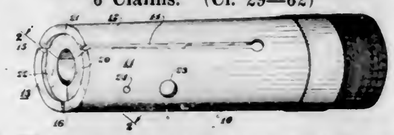
maintain said bolt in projected position whereby to retractibly condition said bolt relative to said latch device for actaution to retracted position by said inside member and by said outside member upon actuation of said inside member from latched position.

2,162,049
FISHING LURE
Albert F. Baker, Santa Rosa, Calif., assignor of three-fourths to Albert M. Baker, Stockton, Calif.
Application January 17, 1938, Serial No. 185,282
2 Claims. (Cl. 43—46)



1. In combination, a fishing lure including a body having a bore therethrough, a resilient element in the bore and a pair of fish hooks detached from the body and connected to the ends of the element.

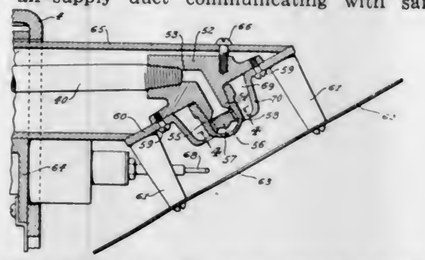
2,162,050
MEANS FOR EXPANDING A SPRING FEEDING FINGER
George Balas, Cleveland, Ohio, assignor to The Benco Manufacturing Company, a corporation of Ohio
Application April 11, 1938, Serial No. 201,326
6 Claims. (Cl. 29—62)



1. The combination with a spring feeding finger comprising a hollow body member having longitudinal slits extending from one end thereof to a portion intermediate its ends and forming expansible segmental feeding finger portions arranged to be forcibly expanded substantially radially outwardly, of screw means for forcibly expanding the segmental feeding finger portions, said screw means having a threaded portion threadably engaging one of said segmental feeding finger portions and having an extension portion extending across the inside of the hollow body member and engaging the sides of a slit between two segmental feeding finger portions.

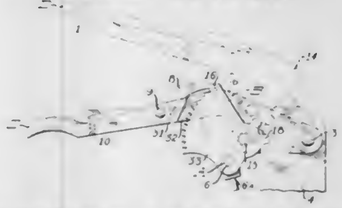
2,162,051
OIL BURNER
Edwin C. Ballman, St. Louis, Mo.
Application May 5, 1934, Serial No. 724,071
5 Claims. (Cl. 158—76)

1. A liquid fuel burner for a furnace, comprising, a burner nozzle having a tip provided with a fuel exit opening, means in said nozzle providing spaced fuel ducts adapted to divide the stream of fuel into a plurality of small jets, guiding means in said nozzle adapted to converge such jets to a common point at said opening so as to cause the jets to impinge upon each other as the fuel issues from said tip, a housing surrounding said tip and having an opening through which the tip projects so as to leave therebetween an annular air exit opening, and an air-supply duct communicating with said



housing and open to the atmosphere at its rear end.

2,162,052
BRAKE LEVER MECHANISM
Don Alfred Bird, Detroit, Mich.
Application January 29, 1938, Serial No. 187,633
2 Claims. (Cl. 74—530)



1. In combination, a supporting standard provided with a plurality of gear teeth extending across one corner at one end thereof, a hand lever pivoted in proximity to the opposite corner of the standard at said end for swinging movement, a gear plate pivotally mounted upon the lever adjacent to said end of the standard, said gear plate provided with gear teeth extending across one corner of the side which is adjacent to the standard, said teeth being in mesh with the gear teeth on the standard, a brake actuating link pivoted to the opposite corner of the same side of the gear plate, and means engaging the opposite side of the gear plate from said gear teeth and brake actuating lever releasably operable to hold the plate and the lever at adjusted positions of swingable movement.

2,162,053
CARTON OPENER
Harry Blatt, Mount Vernon, N. Y.
Application May 21, 1938, Serial No. 209,156
3 Claims. (Cl. 30—2)



1. In a device for opening a carton which has a flap depending from the forward edge of its top wall pasted to the inner surface of its front wall, the combination with a table member, of a blade fixedly mounted at one end to lie over the table member in a plane parallel therewith; the space between the table member and blade being substantially equal to the thickness of the material of the carton, whereby the latter may be moved so that the blade shall enter between the front wall and said flap of the carton; the blade having a pair of cutting edges which diverge towards its secured end, a stop member

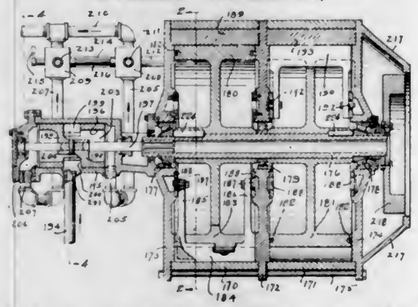
and a cam member, both fixedly mounted on the table member; the distance between the stop member and the furthest point from it along the remote cutting edge of the blade, being more than the length of the carton, and the position of the cam member being such that when the side wall of the carton is in surface contact with the cam member, the blade shall have slit a side edge of the front wall of the carton.

2,162,054
ACCORDION BELLOWS LOCK
John M. Bolster, Minneapolis, Minn., assignor to Edward Traficante, Minneapolis, Minn.
Application September 4, 1937, Serial No. 162,471
3 Claims. (Cl. 84—376)



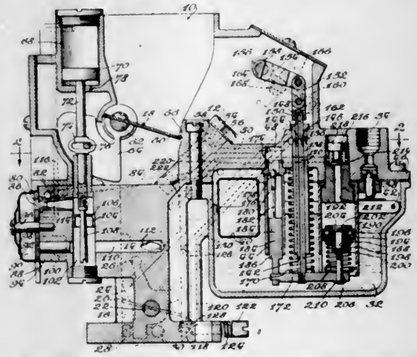
1. In an accordion having a pair of boxes connected together by a bellows and containing respective groups of reed blocks carried by the respective boxes and separated by a relatively small space when said bellows is collapsed, means for locking said bellows in collapsed condition comprising, a generally U-shaped member disposed in straddling relation with one of said groups and having its free ends swingably connected to the one of said boxes carrying said group and its medial portion disposed between said respective groups, a member extending normal to the direction of expansion of said bellows between said respective groups and secured at its respective ends to inner edges of sides of the remaining one of said boxes, complementary latch elements provided on said respective members and shaped for mutual engagement and disengagement responsive to swinging movement of said U-shaped member when said bellows is in collapsed condition to lock said bellows in collapsed position when engaged, and means accessible from without said accordion and manipulatable to swing said U-shaped member.

2,162,055
ROTARY ENGINE
Earl E. Bowers, Lebanon, and Charles M. Tumey, Indianapolis, Ind.
Application July 8, 1935, Serial No. 30,236
4 Claims. (Cl. 121—90)



1. A rotary engine comprising a pair of barrels, plates at the ends of the barrels, a pair of rotors, one revolubly carried in each barrel to have an annular passageway therearound between the end plates, a common shaft to which each of said rotors is fixed, a blade forming an abutment in each barrel, said blade extending transversely across the passageway therein and radially of the rotors, preventing complete flow around the passageway, said abutments being located in a common side of each barrel, a vane carried by each rotor normally extending across the passageway and cooperating with said abutment to divide the passageway into two chambers, the vane of one rotor being angularly displaced in relation to the other vane, and means on the plates for shifting each of said vanes to permit clearance of said abutment upon relative travel of the vanes and abutments one past the other.

2,162,056
CARBURETOR
Robert F. Bracke, Detroit, Mich.
Application April 13, 1937, Serial No. 136,544
9 Claims. (Cl. 261—72)

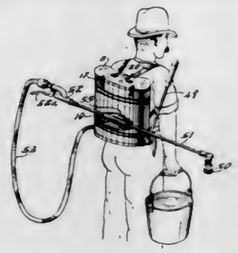


2. In a fuel lift carburetor of the class described, the combination of a nozzle, a float chamber from which said nozzle is supplied with fuel, means including a metered orifice connecting said nozzle with said float chamber, an economizer pin located in said orifice, said economizer pin having a cylindrical part restricting flow of fuel to said nozzle during idling operation of an engine to which said carburetor is attached, an idling jet, conduit means connecting said idling jet with said float chamber, a valve in said conduit means automatically operative to cut off said idling jet from said float chamber when a predetermined condition of carburetor operation is reached, means connecting said economizer pin with said valve for movement therewith, means for adjusting said valve without disturbing the restrictive function of said economizer pin during idling operation of the engine, means for operating said valve and economizer pin, and a booster for maintaining said float chamber under sub-atmospheric pressure.

2,162,057
KNAPSACK SPRAYER
Henry E. Brandt and Clifford Zwickey, St. Paul, Minn., assignors to Dobbins Manufacturing Company, St. Paul, Minn., a corporation of Minnesota
Application August 7, 1937, Serial No. 157,942
1 Claim. (Cl. 299—97)

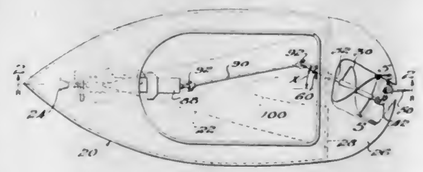
A sprayer structure having in combination, a tank adapted to be carried on the body of the operator, a nozzle equipped discharge tube, flexible means connecting said tube and tank and a

holder for said tube comprising an upwardly directed resilient clip secured centrally to the rear side of said tank and spaced therefrom so that



said tube may be resiliently held between said clip and tank, said tank having an inwardly extending groove formed therein and extending horizontally opposite said clip.

2,162,058
BOAT
Alanson P. Brush, Detroit, Mich.
Application January 23, 1936, Serial No. 60,367
8 Claims. (Cl. 115—34)



4. In combination, a boat hull of the planing type having a pair of planing surfaces diverging from each other toward the stern of the hull and said hull being upwardly relieved between said planing surfaces, a surface type of screw propeller mounted on said hull at the stern thereof for driving said hull and being arranged in closely adjacent relationship to said stern whereby said planing surfaces predetermine the depth of immersion of said propeller in the water when said hull is at speed regardless of load, the axis of said propeller being skewed with respect to the longitudinal centerline of said hull, the angle of skew being such in relation to the pitch of said propeller that the immersed portions of said propeller when said hull is at speed lie approximately in a vertical plane lying perpendicular to the longitudinal axis of said hull, and means secured to said hull within said recess cooperating with said propeller to predetermine the amount of immersion of said hull when said hull is moving at an appreciable speed less than normal running speed.

2,162,059
BINDER COMPOSITION
Walter C. Chedic, Oakland, Calif.
No Drawing. Application April 15, 1938, Serial No. 202,271
2 Claims. (Cl. 22—188)

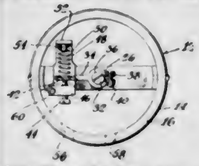
2. A binder composition, useful in bonding together granular materials forming cores for metal molding, comprising, in dry form, a predominant amount of mineral pitch, substantially forty percent as much bentonite as the amount of mineral pitch, substantially twenty percent as much fibrous vegetable filler as the amount of said pitch, and substantially twenty-seven percent as much of a vegetable substance possessing adhesive properties as the amount of said pitch.

2,162,060
ANCHORED ADJUSTABLE CHAIR
Willard W. Churchill, Seattle, Wash.
Application November 17, 1936, Serial No. 111,287
4 Claims. (Cl. 155—116)



3. In a chair, the combination with a fixed frame and a back frame pivoted therein, and a bearing rod slidably mounted at its ends in the back frame, of a seat frame rigid with said rod and having its front end pivotally mounted on the fixed frame, a Y-shaped yoke pivotally mounted on the back frame below the bearing rod, means for slidably and pivotally connecting the yoke to the front of the main frame, and means for arresting the slidable movement of the yoke.

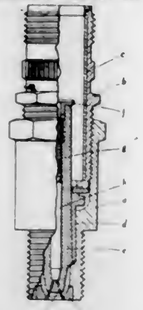
2,162,061
PRECISION CONDENSER ADJUSTER
Victor Clarke, Coral Gables, Fla.
Application July 9, 1937, Serial No. 152,749
5 Claims. (Cl. 74—395)



1. In an adjusting device, the combination of a shaft, a lever fixed to said shaft and angularly adjustable with relation thereto, a yoke member, a set-screw threaded into said yoke and having a free end engaging said lever, and resilient means engaging the yoke and the lever for urging the lever into engagement with the free end of the set-screw.

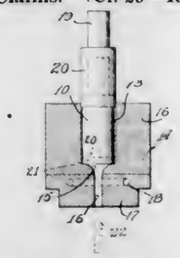
2,162,062
MANUFACTURE OF SPARK PLUGS
Douglas Haynes Corbin, Dunstable, England, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 17, 1938, Serial No. 196,309
In Great Britain March 19, 1937
11 Claims. (Cl. 123—169)

1. A method of making a spark plug having an insulator with a central bore and an electrode which comprises positioning on the insulator an electrode made of a platinum alloy so as to be in communication with the central bore, introducing silver into the bore and bringing it into contact with said electrode whilst in a molten state,



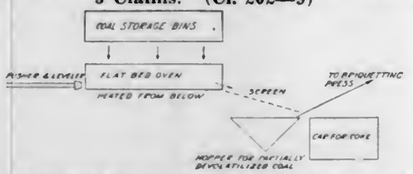
then letting the silver cool so as to retain the electrode in position.

2,162,063
VALVE AND A METHOD OF MAKING THE SAME
Frederick C. Crawford, Cleveland, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application February 29, 1936, Serial No. 66,339
5 Claims. (Cl. 29—156.7)



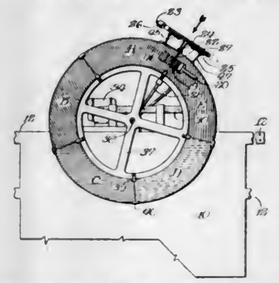
1. The method of making a chromized valve, which comprises chromizing a cylindrical billet to a depth of 0.03 to 0.04 inch and extruding said billet to form a stem and head having a chromized surface layer tapering off in thickness from the head toward the stem.

2,162,064
PROCESS FOR TREATING COAL
Maurice D. Curran, Glendale, Mo., assignor to Tar & Petroleum Process Company, Chicago, Ill., a corporation of Illinois
Application December 21, 1936, Serial No. 117,032
3 Claims. (Cl. 202—9)



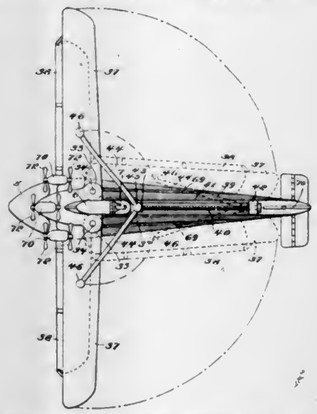
2. The method of producing material suitable for combustible briquettes and for producing commercial coke which consists in heating a bed of high volatile, cokable coal shallow relative to its width and length, the heat being applied substantially entirely from below, carrying said process to a point where the lower portion of said bed is converted into coke while freeing the upper portion of said bed from moisture and a portion of the low boiling tar oils and volatile matter therein, and thereafter separating said partially devolatilized coal from said coke and while the contents of said upper portion are still hot pressing said contents into briquettes.

2,162,065
PAINT ADVERTISING DEVICE
Wilbur J. Dallinger, Atlantic, Iowa
Application July 18, 1938, Serial No. 219,808
12 Claims. (Cl. 40—139)



10. In a device of the class described, a background element having a slot therein, a movable element back of said background element and spanning said slot, a paint brush support back of said background element, a paint brush supported by said paint brush support and projecting from said slot, means for reciprocating said paint brush support relative to said slot and means for advancing said movable element with the movement of said paint brush support as it traverses said slot in one direction, said last means permitting the movable element to remain stationary as the paint brush support traverses said slot in the other direction.

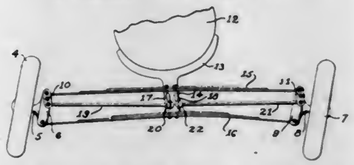
2,162,066
SUBMERSIBLE AIRCRAFT
Paul De Asis, Los Angeles, Calif.
Application February 28, 1938, Serial No. 193,196
2 Claims. (Cl. 244—49)



1. A craft of the class described, comprising, a submersible hull, a motor within said hull and equipped with a drive shaft, propeller shafts having propellers for moving said craft through

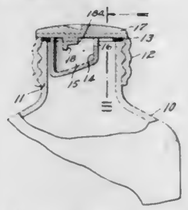
the water, clutch mechanism for effecting connection of said drive shaft with said propeller shafts whereby to operate the same, wings pivotally mounted on said hull and movable to retracted and extended positions relative thereto, a longitudinally extending shaft secured to said hull, a member threadedly operated on said shaft, links connecting said wings to said member, clutch mechanism carried by said drive shaft and connected to said longitudinally extending shaft whereby to move said wings to retracted and extended positions, and means for positively effecting asynchronous operation of said first mentioned and last mentioned clutch mechanisms whereby said longitudinal shaft is operable only when said propeller shafts are inactive.

2,162,067
WHEEL BANKING DEVICE
Floyd H. Dreyer, Indianapolis, Ind.
Application March 12, 1938, Serial No. 195,459
3 Claims. (Cl. 280—112)



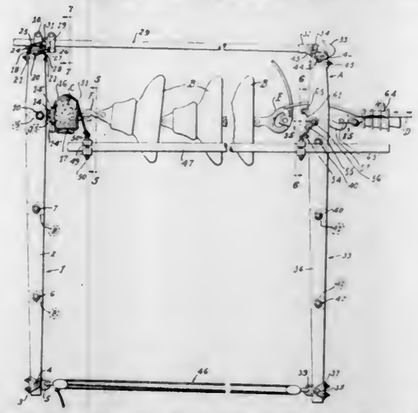
1. In a wheel banking device, a pair of spread-apart axles each having an upper and a lower vertical extension on their inner ends, a frame-yoke having a block, a leaf spring attached at each end to the lower extensions of the axles and at its middle to the block, a lever for each axle pivoted at its middle to the upper extension of the axle, a leaf spring connected at its ends with the upper ends of the two levers and at its middle with the upper part of the block, and rod connections between the lower part of the block and the lower ends of the two levers.

2,162,068
MEASURING CLOSURE FOR CONTAINERS
Edith Brisbane Duell and Charles Holland Duell, Hartford, Conn.
Application February 15, 1937, Serial No. 125,677
19 Claims. (Cl. 221—147)



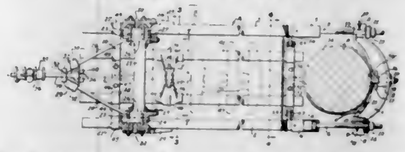
1. The combination with a container of a closure for said container, a removable measuring receptacle located adjacent said closure, said receptacle having an opening communicating with the interior of said container, a movable exterior cover element carried by said closure and adapted to cover said receptacle, and a member projecting from said cover element having a closure portion extending parallel to the direction of movement of said cover element of such shape and position as to close said communicating opening whenever there is any opening of said cover to allow pouring of material from said measuring receptacle.

2,162,069
APPARATUS FOR IMPARTING PULL TO ELECTRICAL CONDUCTORS
Ulrich C. Dunaway, St. Louis, and Firmin M. Cunningham, Maplewood, Mo., assignors to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application March 21, 1938, Serial No. 197,096
18 Claims. (Cl. 254—77)



1. An apparatus for imposing pull on an electrical line to put slack in an anchoring assembly associated therewith comprising, an element adapted for association with a support, securing means for attaching said element to the support, an elongated member, means for movably connecting said elongated member to said element, means connected to said member adjacent to one end thereof and adapted for engagement with the electrical line on which pull is to be imposed, and means including a flexible element connected to said elongated member adjacent to the opposite end thereof for moving said member so as to impose pull on the electrical line through cooperation with said member of the means connected thereto, said means for movably connecting said elongated member and said element being located between the points at which said electrical line engaging means and said elongated member moving means are connected to said elongated member.

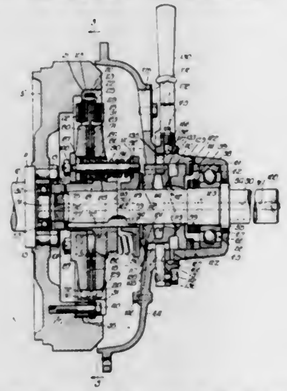
2,162,070
APPARATUS FOR PUTTING SLACK IN ANCHORING ASSEMBLIES OF ELECTRICAL CONDUCTORS
Ulrich C. Dunaway, St. Louis, and Firmin M. Cunningham, Maplewood, Mo., assignors to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application March 21, 1938, Serial No. 197,097
10 Claims. (Cl. 254—67)



1. An apparatus for imposing pull on an electrical line to put slack in an anchoring assembly associated therewith, comprising a member mounted on a support, attaching means for preliminarily attaching said member to said support,

a pair of spaced elongated elements arranged in parallelism, means for connecting said spaced elements together, a pair of means for adjustably connecting said spaced elements to said member, said pair of means comprising each a screwthreaded extension projecting from one of said spaced elements and extending through an opening formed in said member, and nuts on said screwthreaded extensions which on rotation thereof move said extensions and the elongated elements with which they are associated relative to said member, and means for connecting said spaced elements to an electrical line on which pull is to be imposed.

2,162,071
CLUTCH
Clarence M. Eason, Waukesha, Wis., assignor to Industrial Clutch Company, a corporation of Wisconsin
Application January 15, 1937, Serial No. 120,762
22 Claims. (Cl. 192—68)



1. A disc clutch comprising a driven shaft, a driving disc member, a driven disc member disposed on the outside of said driving disc member and fixed to said driven shaft, a movable driven disc member carried adjacent the inner end of said driven shaft and on the inside of said driving disc member, means extending axially of said driven disc members for causing them to rotate together, each of said means having an axially extending opening therein, and means passing through said openings and connected with said inner driven disc member for shifting the latter to engage and disengage the clutch.

19. In a clutch, a housing, a driven shaft, bearing means supporting said shaft for rotation in said housing and including inner and outer bearing races, driving and driven clutch means adapted to connect said shaft to a driving element, spring means for engaging said clutch means, and means including a part reacting against one of the bearing races for compressing said spring means to disengage the clutch, said spring means in being compressed reacting against the other of said bearing races.

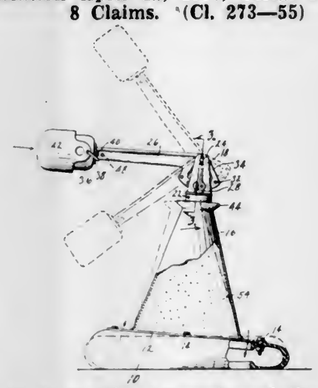
2,162,072
COMPOSITE BRAKE DRUM
Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 5, 1935, Serial No. 14,746
3 Claims. (Cl. 188—218)

1. A brake drum comprising a sheet metal supporting ring having its peripheral margin extending generally radially and formed with relatively widely spaced projections of substantial length, and relatively closely spaced and short



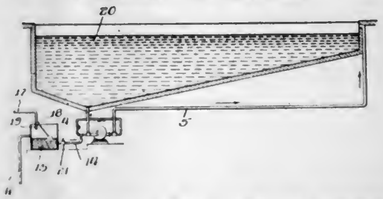
projections in the spaces between said first-named projections, and a cast metal brake ring having one end thereof thickened and cast onto said margin and fusedly and mechanically interlocked with said projections.

2,162,073
PRACTICE APPARATUS FOR FOOTBALL AND LIKE GAMES
Robert M. Evans, Des Moines, Iowa
Application April 12, 1937, Serial No. 136,391
8 Claims. (Cl. 273—55)



3. In a practice apparatus of the character described, a body member, a tire casing secured flatwise against the base thereof to provide a resilient support therefor, an arm extending laterally from the upper end of said body member beyond the circumference of the base and a padded element on the outer end of said arm.

2,162,074
NONSIPHONING SWIMMING POOL TREATMENT SYSTEM
Roy Blair Everson, Chicago, Ill.
Application April 22, 1936, Serial No. 75,860
4 Claims. (Cl. 210—11)



1. In a swimming pool water re-circulation system, a pump having an intake and an outlet, said pump being connected to the withdrawal side of the re-circulation system at its intake side and connected to the return side of the re-circulation system at its outlet side, injector means for introducing additional fluids into the system in combination with the inlet side of the

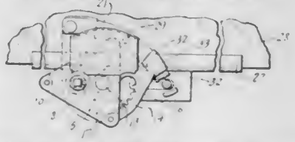
pump, a supply tank for said additional fluids, supply tank conduit means connecting the injector to the supply tank for feeding additional fluid to the injector, an overflow conduit in the tank adapted to limit the maximum liquid level in the tank, and fresh fluid supply means for said tank having its mouth located a substantial distance above the overflow means.

2,162,075

WINDOW REGULATOR MECHANISM

Burton S. Floraday, Toledo, Ohio, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application May 10, 1937, Serial No. 141,644
Renewed November 28, 1938
5 Claims. (Cl. 268—126)



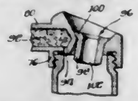
1. A vehicle window regulator comprising a crank arm, an internal gear in said crank arm, a part of said arm projecting into the approximate center of the space formed by said internal gear, a pivotal mounting for said arm engaging said arm part, a manually operable pinion engaging said internal gear, a link connecting the end of said crank arm to the window, and means to cause said arm and link to act as a bell crank lever during a portion of the path of movement of the arm.

2,162,076

BREAST PUMP DEVICE

Peter A. Frimand, deceased, late of Wilmette, Ill., by Emilie L. Frimand, administratrix, Wilmette, Ill.

Original application November 21, 1932, Serial No. 643,553, now Patent No. 2,060,063, dated November 10, 1936. Divided and this application November 9, 1936, Serial No. 109,856
2 Claims. (Cl. 128—281)



1. A breast pump device including a pump, a breast appliance including a fluid receptacle, a breast shield providing a cap for said receptacle, means within said shield for establishing communication between the inside of said receptacle and said pump, means for connecting said shield with said pump, and a nipple receiving insert associated with said shield.

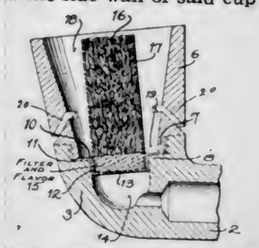
2,162,077

TOBACCO CARTRIDGE

Lawrence M. Gilliam, San Anselmo, Calif., assignor of fifteen per cent to Dwight E. Lyon, San Anselmo, Calif.

Original application December 5, 1936, Serial No. 114,293. Divided and this application May 21, 1937, Serial No. 143,944
2 Claims. (Cl. 131—52)

1. A unitary self-supporting tobacco cartridge consisting of a cup formed of a single piece of material and provided with a laterally extending clamping flange and having a perforated bottom, a combustible wrapper within and attached to the cup in abutting relation therewith, said wrapper forming a wall constituting the sole means to retain tobacco in position above the cup, said wrapper and the side wall of said cup being substantially coextensive, a charge of tobacco in said wrapper, and a mass of filter material within said wrapper in contact with said tobacco and supported on the bottom of said cup, said flange constituting the sole transverse means to retain the cartridge within a pipe bowl against withdrawal movement.

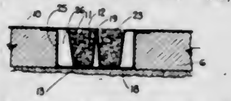


2,162,078

REFRIGERATOR CAR FLOOR

Garth G. Gilpin, Riverside, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware

Application April 22, 1937, Serial No. 138,309
9 Claims. (Cl. 189—34)



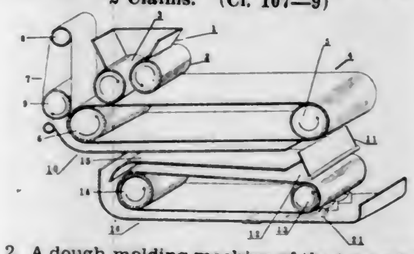
9. A wall for a refrigerator car comprising a wooden sheathing, a channel member let into said sheathing, two metallic sheets having adjacent U-shaped marginal flanges positioned within said channel member, and welded material securing the edges of said flanges together.

2,162,079

MOLDING MACHINE

Herman Grabowski and Gustav Grabowski, Cedar Grove, Wis.

Application May 14, 1938, Serial No. 207,876
2 Claims. (Cl. 107—9)



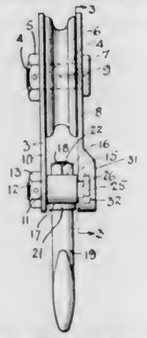
2. A dough molding machine of the type wherein a cylindrical loaf is formed by rolling a piece of dough over a stationary tray by means of a moving belt and comprising a moving belt, a stationary tray spaced therefrom, said stationary tray being provided with an offset portion, a receiving tray having a portion adapted to fit within said offset portion whereby to form a continuous plane surface with said stationary tray and a plurality of knives attached to said receiving tray and extending therefrom into the path of travel of said loaf, a portion of said knives extending beyond the horizontal plane formed by said belt.

2,162,080

SNATCH BLOCK

Louis P. Hacker, Overton, Tex.

Application June 22, 1937, Serial No. 149,615
1 Claim. (Cl. 254—193)



A snatch block of the character described comprising a side plate, a shaft carried thereby, a sheave rotatably mounted on said shaft, a support pin passing thru said plate adjacent one side thereof, said pin including an enlarged central body, flat edge faces on said body, an opening transversely of said body, a support hook having a shank passing thru said opening and rotatable therein, means holding one end of said pin rotatably in said plate, a head on the other end of said pin, a neck of reduced diameter spacing said head from said body, said head being elongated transversely of the pin with flat side faces so that it is substantially elliptical, another side plate pivoted on said shaft, one side thereon extending beyond said sheave and adjacent said pin, said end being thickened, an arcuate recess transversely on the inner face of said thickened plate, such recess being enlarged internally at the inner end thereof so that said head may be passed into the recess and locked therein upon rotation thru a quarter turn by the restricted entrance so that the elongated portion thereof will be turned into the enlarged portion of such recess and said plate will be locked in position when said hook is supporting the block and releasable when the hook is turned down to either side.

2,162,081

PERMANENT WAVE APPARATUS

Frank G. Hall, Chicago, Ill., assignor to Halgar, Inc., Chicago, Ill., a corporation of Illinois

Application May 5, 1938, Serial No. 206,222
7 Claims. (Cl. 132—36)



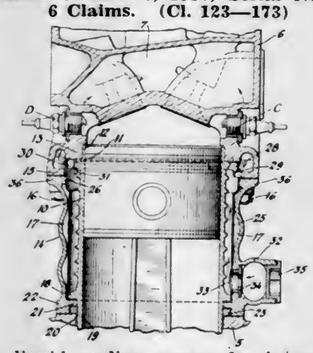
1. In combination in a hair waving apparatus, a protective shield having rigid upturned flanges along opposite sides and a centrally disposed slot for passing a strand of hair therethrough, means for winding said strand into a roll and securing the latter against the face of said shield, a flexible exothermic pad adapted to extend over said roll, and means for securing the lateral edges of said pad between the flanges of said shield.

2,162,082

LIQUID COOLING MEANS FOR INTERNAL COMBUSTION ENGINES

Ronald M. Hazen, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 7, 1937, Serial No. 167,697
6 Claims. (Cl. 123—173)



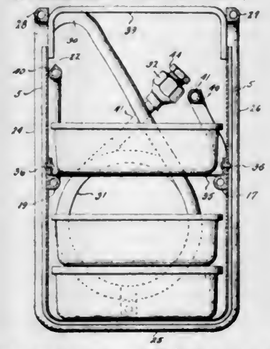
5. In liquid cooling means for internal combustion engines and in combination with a plurality of cylinders, a jacket enclosing all of said cylinders and spaced therefrom to provide a chamber within said jacket, and a hollow head having valve controlled ports; tubular sleeves surrounding said cylinders and arranged within said chamber and through which cooling liquid flows into said head, and the upper ends of which sleeves have outlets arranged so as to direct streams of cooling liquid toward said ports; a cooling liquid supply manifold extending along the lower end of said jacket and from which cooling liquid flows into the lower ends of said sleeves; and metering plugs included in the passage between said manifold and said sleeves for regulating the flow of cooling liquid into said sleeves.

2,162,083

EVAPORATOR

William W. Higham, Detroit, and Stanley H. Morse, Dearborn, Mich., assignors to Universal Cooler Corporation, Detroit, Mich., a corporation of Michigan

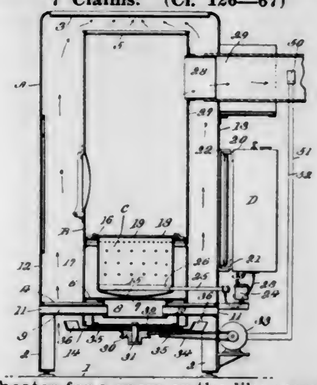
Application February 9, 1938, Serial No. 189,632
5 Claims. (Cl. 62—126)



5. An evaporator comprising a single length

of stock having a hollow cross sectional shape with two oppositely extending flanges, said flanged stock being fashioned into a plurality of coils which form the body of the evaporator with the flanges on the coils cooperating to provide side walls of the evaporator, ends of the stock having the flanges removed therefrom and constituting extended inlet and outlet ends, one or more intermediate portions of the stock having one flange removed therefrom and one remaining and being fitted against the side walls of the evaporator, a shelf resting upon the intermediate portions and having flanged edges lying substantially flush with the remaining flanges of said portions, and means for securing the flanges of the shelf and the remaining flanges of said portions to the side walls of the evaporator.

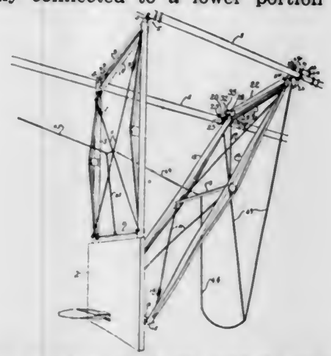
2,162,084
ROOM HEATER
Rudolph Hoffman, Rocky River, Ohio, assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application April 1, 1938, Serial No. 199,522
7 Claims. (Cl. 126—67)



2. A heater for a room or the like comprising, a casing having openings in its upper and lower ends, the lower end of said casing supported above but closely adjacent the floor line of said room, a heating drum in said casing and arranged in separated relationship to the walls thereof to form passageways having communication with the openings in the upper and lower ends respectively of said casing, a burner in said drum, a fuel supply for said burner, a thermostatically operated valve disposed in said fuel line and positioned exterior of the casing adjacent the lower end thereof, a fan disposed beneath the lower end of said casing for drawing air to and pulling the same downwardly through said casing passageways to discharge through the lower end of the casing adjacent the room floor level and a thermostat in the outlet flue of said burner drum for controlling the operation of the said fan and thereby controlling the circulation of air in said heater, for the purpose described.

2,162,085
BASKETBALL BACKSTOP APPARATUS
Edwin F. Hoppes, Fred C. Garratt, Jr., and Walter B. Evans, Springfield, Ohio, assignors to The Everwear Manufacturing Company, Springfield, Ohio, a corporation of Ohio
Application December 28, 1937, Serial No. 182,070
14 Claims. (Cl. 273—1.5)

1. In a basketball backstop apparatus, overhead supports, a rigid backstop supporting frame hingedly carried at its upper end by said supports, a rigid bracing frame having its lower end hingedly connected to a lower portion of said



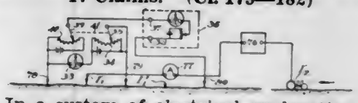
backstop supporting frame, means for movably supporting the upper end of said bracing frame on said supports, and means for releasably latching the upper end of said bracing frame to said supports.

2,162,086
METHOD AND APPARATUS FOR ELECTRICAL EXPLORATION OF THE SUBSURFACE
John Jay Jakosky, Los Angeles, Calif.
Application February 21, 1938, Serial No. 191,681
In Canada January 5, 1938
16 Claims. (Cl. 175—182)



1. In a method of electrical exploration of the subsurface in which a measurement is taken involving the potential difference created between two spaced points by the flow of an energizing current through the earth, the step which comprises taking a separate measurement, during the flow of the energizing current, involving the natural earth potential between two spaced points which are so positioned with respect to the path of said current that the potential difference therebetween is substantially unaffected by said current, whereby the two measurements may be correlated to give a corrected measurement involving the created potential difference which is substantially free from errors due to natural earth potential.

2,162,087
METHOD AND APPARATUS FOR ELECTRICAL EXPLORATION OF THE SUBSURFACE
John Jay Jakosky, Los Angeles, Calif.
Application July 13, 1938, Serial No. 219,003
17 Claims. (Cl. 175—182)



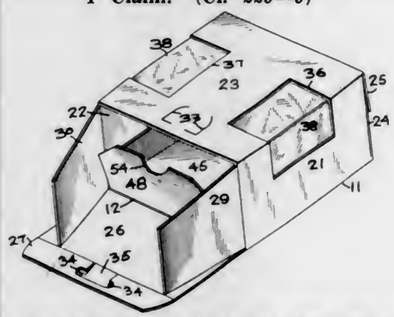
1. In a system of electrical exploration of the subsurface in which a measurement is taken involving the potential difference created between two spaced points by the flow of an energizing current through the earth, the method of eliminating the effect of natural earth potential on such measurement which comprises introducing a potential in opposition to the natural earth potential between said two spaced points and controlling said introduced potential in accordance with the natural earth potential between two spaced points which are so positioned with respect to the path of said current that the potential difference therebetween is substantially unaffected by said current.

2,162,088
STEERING WHEEL
Stephen P. Jonas, Cleveland, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application January 18, 1936, Serial No. 59,726
8 Claims. (Cl. 74—552)



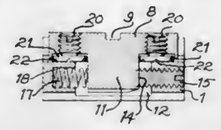
1. In a wheel, the combination of a tubular annulus forming the rim member and a radially extending spoke member, said spoke member at its outer end extending through the radially inner portion of the wall of said annulus and secured to the diametrically opposite outer portion of said wall by likewise extending therethrough and being peened over at its outer end, said outer portion being depressed locally radially inwardly for engagement with said spoke.

2,162,089
ARTICLE CONTAINER
Kenneth S. Kagen, York, Pa., assignor to Keystone Paper Box Company, Incorporated, York, Pa., a corporation of Pennsylvania
Application December 3, 1937, Serial No. 177,854
1 Claim. (Cl. 229—9)



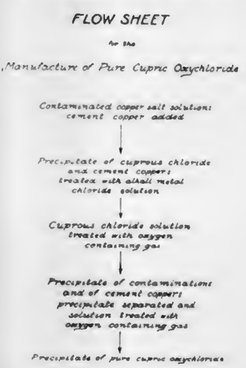
An article container of the type described comprising an end opening box having a releasable closure for the open end of said box, a tray having connected side and rear walls and a front wall hinged to the bottom of said tray and disconnected from said side walls, said front wall of the tray having a height equal substantially to the height of said box, said releasable closure having a tuck flap which is held between the top wall of the box and the upper edge of the front wall of said tray.

2,162,090
ADJUSTABLE GUN SIGHT
Dean W. King, San Mateo, Calif.
Application April 20, 1938, Serial No. 203,075
4 Claims. (Cl. 33—56)



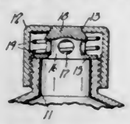
1. A gun sight comprising a foundation member adapted to be attached to a firearm, a cross slot therein, a sight member carrying a sight slidable both vertically and horizontally in said slot, a screw extending horizontally in said foundation member and bearing against said sight member, resilient means forcing said sight member against the end of said screw, said sight member being vertically movable over the end of said screw, and elevation means for moving said sight member vertically with respect to said foundation member and said screw.

2,162,091
MANUFACTURE OF CUPRIC OXYCHLORIDE
Ernst Kuss, Kurt Horalek, and Oskar Emert, Duisburg, Germany, assignors of one-half to Duisburger Kupferhütte, Duisburg, Germany, and one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application November 4, 1937, Serial No. 172,776
In Germany March 14, 1934
4 Claims. (Cl. 23—85)



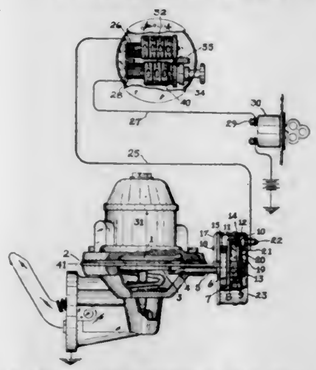
4. Process of preparing cupric oxychloride from the solutions obtained by lixiviating chlorinated roasted copper containing pyrites which are contaminated by other metals including iron, arsenic and lead which comprises precipitating the copper by the addition of cement copper in the form of cuprous chloride, separating the precipitated cuprous chloride and the excess cement copper from the solution, treating the cuprous chloride with an alkali metal chloride solution containing in addition alkali metal sulfate, treating the mixture with an oxygen containing gas, separating the solution from the solid residue containing the excess cement copper, lead sulfate and precipitated iron and arsenic compounds, oxidizing the dissolved cuprous chloride to cupric oxychloride by means of an oxygen containing gas and separating the cupric oxychloride from the solution.

2,162,092
CLOSURE
Carl E. Lundgren, La Porte, Ind.
Application March 13, 1937, Serial No. 130,642
5 Claims. (Cl. 221—60)



1. A closure for the outlet of a container, comprising a cap adjustably mounted on said outlet and having an opening in its end, a hollow apertured member bearing on said outlet and including a tapered valve portion normally seating in said opening, and a coil spring in said cap bearing on said member to position said member seated on said outlet when said cap is shifted on said neck to unseat said valve portion relative to said cap opening.

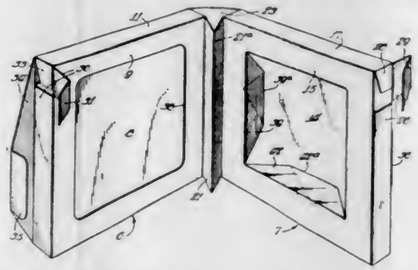
2,162,093
FUEL CONSUMPTION MEASURING APPARATUS
Harry E. Madden, Norwood, Pa.
Application August 9, 1938, Serial No. 223,919
3 Claims. (Cl. 73—198)



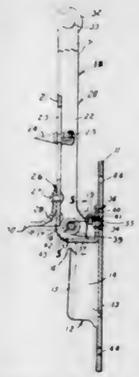
1. In a device for measuring the fuel consumption of an internal combustion engine, a fuel pump having a diaphragm for pumping fuel to the engine, a member contacting said diaphragm to be moved thereby, means for urging said member into contact with said diaphragm, a one-way drive operated by said member, a counter, and means controlled by said drive for operating said counter.

2,162,094
CARTON
Thomas W. Mahone, Cincinnati, Ohio, assignor to The Central Carton Company, Cincinnati, Ohio, a corporation of Ohio
Application August 18, 1937, Serial No. 159,686
1 Claim. (Cl. 229—27)

A carton adapted to simulate a book, said carton comprising two sections each comprising an outer and an inner side wall, opposed edge walls and an end closure, the outer side walls being connected together by a joining panel simulating the back edge of a book, the joining panel being of a width substantially equal to the combined width of two edge walls, said inner panels being connected together by a joining panel substantially equal in width to said first mentioned joining panel, said last mentioned joining panel being centrally scored along a line parallel to the edges of said inner side walls to permit said joining panel to fold and lie between the adjacent inner side walls when said carton is folded into the form of a closed book, and edge wall joining portions on each end of said first mentioned joining panel, each of said portions being connected with the ends of the adjoining edge walls and being of equal width thereto, each of said portions also being provided with converging score lines extending from the outer edges of said portions, where said portions meet said first mentioned joining panel, to a central point in the inner edge of said portions, whereby, when said carton sections are folded together, said end portions will fold along said converging score lines to form compact triangular portions, limited to double thickness, lying along the inner surface of said first mentioned joining panel at substantially right angles to said edge walls and, when the carton sections are laid out to simulate an open book, the edge wall joining portions and the inner side wall joining panel will substantially meet each other in edge to edge relation.

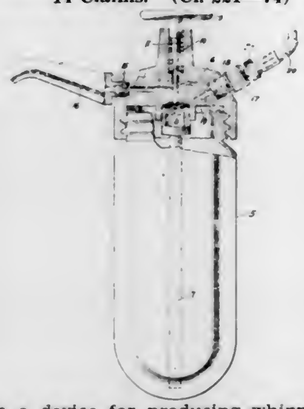


2,162,095
CAN OPENER
Amos L. Maples, Long Beach, Calif.
Application October 10, 1938, Serial No. 234,149
5 Claims. (Cl. 30—10)



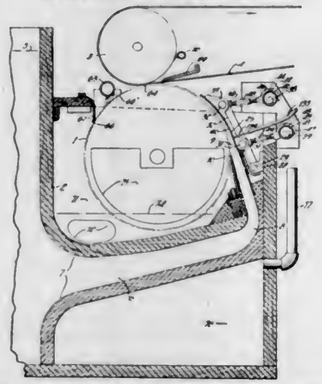
1. In a can opener, a base, spaced supports on said base, a handle member pivotally mounted on said supports, said supports having upwardly facing teeth thereon, a plate slidably mounted on said base, said handle including camming surfaces adapted to engage and shift said plate towards said teeth when the handle member is shifted, and a piercing member on said handle.

2,162,096
DEVICE FOR PRODUCING WHIPPED CREAM
Louis Marmorek, Brooklyn, N. Y., assignor to Auto Cream Whip Corporation, New York, N. Y., a corporation of New York
Application August 6, 1938, Serial No. 223,555
14 Claims. (Cl. 221—74)



1. In a device for producing whipped cream, a container for housing liquid cream and a selected gas under pressure, discharge means for the mixture of cream and gas, a conduit extending into the container and having a gas port therein, charging means operatively positioned between a source of gas supply and said port, and pressure relief means operatively positioned between said port and the atmosphere, the said port being adapted to receive therethrough incoming gas from said charging means and outgoing gas from the container.

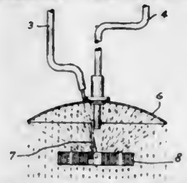
2,162,097
CYLINDER PAPER MACHINE
Walter W. Metcalf, Hoosick Falls, N. Y.
Application March 17, 1936, Serial No. 69,281
6 Claims. (Cl. 92—43)



1. In a paper making machine, the combination with a vat, of a cylinder mold rotatably mounted therein on a horizontal axis, means cooperating with said mold for removing the paper web therefrom, means comprising an inner wall adjacent said mold and an outer wall spaced from said inner wall to form an upwardly extending duct for delivering stock to said mold, said inner wall terminating in close proximity to the surface of said mold on the ascending side in a zone substantially above the bottom thereof in which said zone stock is initially delivered to said mold, said outer wall extending upwardly beyond said inner wall around a substantial portion of the upper ascending quadrant of said mold and comprising a first rigid wall section pivotally mounted at its lower end to swing toward and away from said mold and a second wall section having its side facing said mold preformed to a definite, fixed contour merging smoothly with the mold-facing surface of said first section and pivotally connected to the upper end of said first section whereby it may swing with said first section or independently thereof, means cooperating with said wall sections for swinging them towards or away from said mold, and means for maintaining the white water level in said mold entirely below the level of the zone within which stock is delivered to said mold from said duct; the topmost and terminating edge of said second section being spaced from the zone of web removal from said mold and the path of the moving stock and partially formed web being free and unobstructed between said edge and said removal zone.

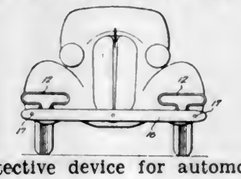
5. In a paper making machine of the character described, the combination with a vat, of a cylinder mold rotatably mounted therein on a horizontal axis, means forming a duct for delivering stock to said mold, means for indicating the flow velocity of the stock in said duct in a zone near the zone of initial delivery of said stock to said mold, and means for varying said velocity.

2,162,098
ELECTRIC SWITCH
Ira E. McCabe, Chicago, Ill.
Application February 10, 1937, Serial No. 124,982
15 Claims. (Cl. 200—138)



1. A thermally actuated switch responsive to the radiant energy of light including a stationary electrode, a movable electrode, a thermal operating coil forming a part of the movable electrode for making and breaking contact with the fixed electrode, said operating coil being formed in two uninterrupted continuous sections oppositely responsive to temperature changes whereby the relation between the electrodes is unaffected by changes in ambient temperature, and means for concentrating rays of light upon one section to operate the switch.

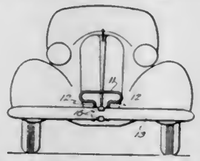
2,162,099
AUTOMOBILE PROTECTIVE DEVICE
Allan L. McGregor, Chicago, Ill.
Application March 18, 1937, Serial No. 131,550
6 Claims. (Cl. 293—55)



1. A protective device for automobiles, com-

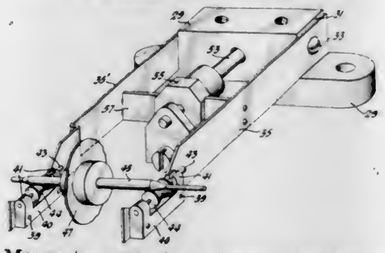
prising a fender support and means for mounting the same on the bumper mounting bar, said support formed with a pair of horizontally spaced holes, a fender member having a head curved to approximately conform to the transverse curvature of an end of a wheel mud guard and legs engaged with said holes, and means for securing said legs in said holes with capacity of vertical adjustment.

2,162,100
AUTOMOBILE PROTECTIVE DEVICE
Allan L. McGregor, Chicago, Ill.
Application March 18, 1937, Serial No. 131,551
7 Claims. (Cl. 293—55)



1. A protective device for automobiles, comprising a fender support consisting of upper and lower relatively inverted one-piece holders shaped to fit over the top and bottom edges of a bumper bar, each of said holders having vertical sleeves on its ends, means for clamping said holders on said bar, a fender member having a pair of integral vertical legs mounted in said sleeves, and means for locking said legs in said sleeves.

2,162,101
SPEED CUP BALANCING MACHINE
Charles W. McKinley, Lucian B. Smith, and Clarence B. Dinsmore, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application November 1, 1935, Serial No. 47,750. Divided and this application February 24, 1938, Serial No. 192,302
5 Claims. (Cl. 308—2)



1. Means to support an element for free rotation, said element having a spindle, said support comprising members upon which said spindle rests, and means to move said members simultaneously toward and from each other to reduce to a minimum the friction at the points of support and to prevent axial movement of said element.

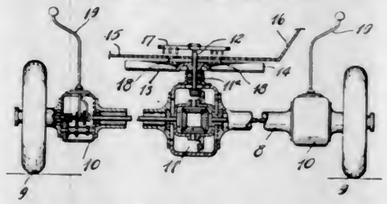
2,162,102
HAND STAMP
Clifford A. McKune, San Francisco, Calif.
Application June 2, 1937, Serial No. 146,014
6 Claims. (Cl. 101—125)

1. In a hand stamp, a frame having a base adapted to contact a flat surface, a stamping or printing member supported in the said frame and having a lower surface in the form of a cylindrical segment, a vertically movable plunger guided by said frame, a link connecting said stamping member and said plunger, and means responsive to a depression of said plunger for first causing



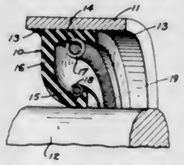
a vertical movement of said stamping member to meet the surface to be stamped, and then a rolling movement of said stamping member on the said surface.

2,162,103
SANDING AND SPREADING DEVICE
Orrie C. Middleton, Corunna, Mich., assignor of one-half to Hugh L. Hartley, Owosso, Mich.
Application March 5, 1938, Serial No. 194,108
4 Claims. (Cl. 275—8)



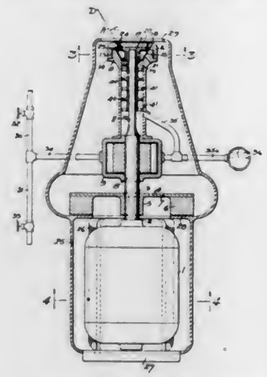
4. A device of the character described and comprising a live axle provided with ground engaging wheels, a differential, driven means connected to said differential and driven thereby, and a transmission interposed in the axle between each wheel and the differential for controlling the speed of the driven means with relation to the wheels.

2,162,104
FLUID SEAL
Ezra D. Mosher, Oakland, Calif., assignor to National Oil Seal Co., Oakland, Calif., a corporation of Nevada
Application August 5, 1936, Serial No. 94,378
1 Claim. (Cl. 288—1)



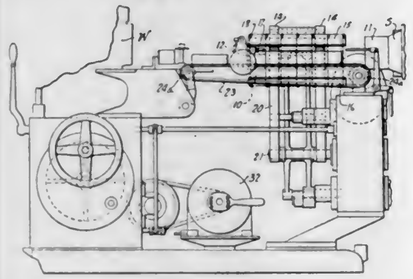
A one-piece fluid seal adapted to be interposed directly between a cylindrical housing and a shaft for establishing a fluid tight seal therebetween consisting solely of a deformable self-sustaining flexible rubber-like molded sealing member, and a pair of springs, said sealing member comprising a pair of spaced annular flanges extending in the same axial direction and a flexible web interconnecting said flanges, each of said springs engaging one of said flanges, one of said springs pressing its associated flange into direct sealing contact with said housing, and the other of said springs pressing its associated flange into sealing contact with said shaft.

2,162,105
OIL BURNER
Albert L. Muren, Dearborn, Mich.
Application August 28, 1937, Serial No. 161,493
12 Claims. (Cl. 261—83)



1. An oil burner unit comprising a housing terminating in an apertured nozzle, a pump from which a mixture of oil and air under pressure is discharged into the housing, a rotary spindle in the housing, means operating the pump and turning the spindle, and a disc fixed on the spindle and bearing against the inner face of the nozzle, said disc having openings therethrough which, as the disc rotates, register intermittently with the nozzle apertures.

2,162,106
PRINT FORMING AND WRAPPING MECHANISM
Edward F. Ness, Toledo, Ohio, assignor to Morris Packaging Equipment Company, Toledo, Ohio, a corporation of Ohio
Application April 1, 1937, Serial No. 134,354
9 Claims. (Cl. 93—2)



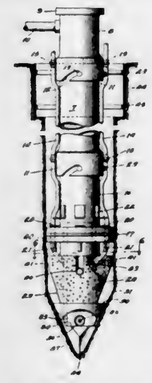
1. In a machine of the character described having a slab former, a cutter and wrapping mechanism, said machine comprising automatic means for rendering said former inoperative after a predetermined length of slab has been formed, means for rendering the cutter operable automatically substantially when said former is rendered inoperative for cutting the slab into a predetermined number of sections, and means for rendering said wrapping mechanism operative substantially when said sections are formed for a period only sufficient to wrap said sections respectively and thereupon for rendering said wrapping mechanism inoperative.

2,162,107
YARN CARRIER OF KNITTING MACHINES
Charles G. Newton, Hamilton, Ontario, Canada
Application December 16, 1936, Serial No. 116,062
In Canada October 18, 1936
11 Claims. (Cl. 66—126)



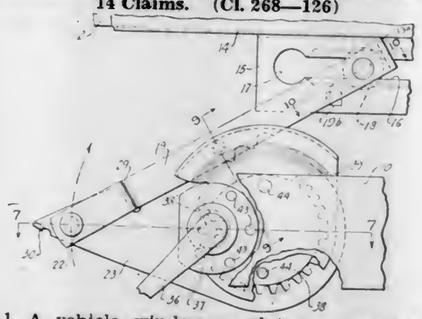
1. In a yarn carrier, a tube readily removably disposed in the carrier tip, means on the tube cooperating with the tip for limiting movement of the tube in one direction relative to the tip, and means including a spring on the tip for snap locking action relative to a portion of the tube for limiting movement of the tube in the opposite direction and operative to provide for movement of the tube in said opposite direction for removal of the tube from the tip.

2,162,108
METHOD FOR FORMING CONCRETE FOUNDATION COLUMNS
William J. Newman, Chicago, Ill.
Application June 9, 1937, Serial No. 147,176
5 Claims. (Cl. 61—57)



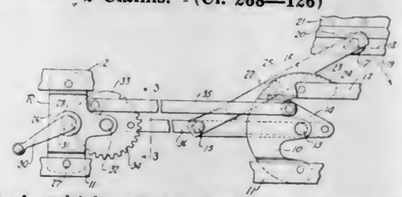
1. The method of forming a concrete foundation column which comprises driving a pipe having a detachable driving head and having a closure ring of larger diameter than the head for closing the space between the lower end of the pipe and the adjacent walls of the hole formed in the ground, into the ground and simultaneously forcing air and water through said head to the outer surface thereof for loosening the earth, then pumping out the contents of the pipe and head after the head has reached the desired depth, then forcing grout into the head to fill the same, then disconnecting the pipe from the head and filling it with concrete to be deposited in the hole and gradually raising the pipe and using it as a tremie for depositing the concrete, said concrete being acted upon by air under pressure as it is being deposited, and water being maintained in the space between the pipe and the sides of the hole as the filling progresses.

2,162,109
VEHICLE WINDOW REGULATOR
Stanley W. Nicholson, Toledo, Ohio, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application March 24, 1937, Serial No. 132,738
14 Claims. (Cl. 268—126)



1. A vehicle window regulator comprising a crank arm, means to turn the arm about a horizontal axis, a link connecting the end of the arm to the window, means for establishing a constant angle position between the link and arm during a portion of the path of movement of the arm, and means for positively retaining said link against movement relative to said arm out of said constant and angle position during a portion of the movement of the latter.

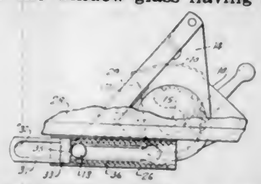
2,162,110
REGULATOR FOR VEHICLE WINDOWS
Stanley W. Nicholson, Toledo, Ohio, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application June 29, 1937, Serial No. 150,995
2 Claims. (Cl. 268—126)



1. A vehicle window regulator comprising a crank arm, a link pivoted to one end of said arm, means for connecting the opposite end of said arm to a window, abutment means on said arm against which said link bears for a portion of the movement of said arm, stationary means cooperable with said link for holding the link in place against said abutment means during a portion of the path of movement of said arm, a crank operated rotary member remote from said crank arm, and a pair of links connecting said rotary member with said arm for imparting turning movements to the latter from rotary movements of the former.

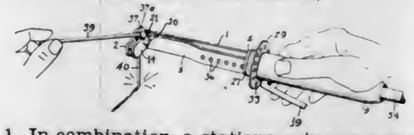
2,162,111
TENSIONING DEVICE FOR VEHICLE WINDOW REGULATORS
Stanley W. Nicholson, Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application November 11, 1937, Serial No. 174,091
5 Claims. (Cl. 268—126)

1. In combination with a window regulator having a link operating for a portion of its travel as a link and for another portion as a lever arm, a crank arm connected to operate said link, a retainer for the window glass having a longitudi-



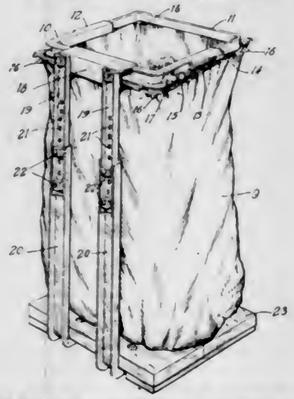
nally elongate guide, a button on said link slidable in said guide, and a spring-tensioned abutment member on said retainer urging said button to cause said link to abut against said crank arm.

2,162,112
ELECTRIC WELDING ELECTRODE HOLDER
Leslie J. Nickels, Arbuckle, Calif.
Application April 9, 1937, Serial No. 135,943
9 Claims. (Cl. 219—8)



1. In combination, a stationary jaw, a movable jaw, a guide for the movable jaw and being carried by the stationary jaw, said guide carrying a housing for receiving the end of an electrode, the housing positioning the electrode end between the two jaws, whereby the operator can rock the electrode between the jaws when the jaws are separated, and means for actuating the movable jaw.

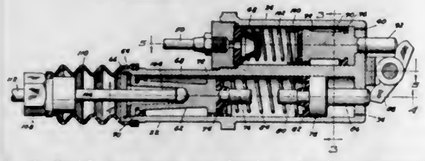
2,162,113
BAG HOLDER
Fred P. Noffsinger, Greeley, Colo.
Application July 3, 1937, Serial No. 151,873
2 Claims. (Cl. 248—100)



1. A bag holder comprising: a horizontal, fixed, U-shaped frame member; a movable U-shaped frame having its extremities overlapping the extremities of the first frame and lying in the same plane therewith; means on the extremities of one frame for guiding the extremities of the other; tension springs extending between the overlapped extremities of the two frame members so as to force them oppositely outward from each other; bag engaging members on each frame

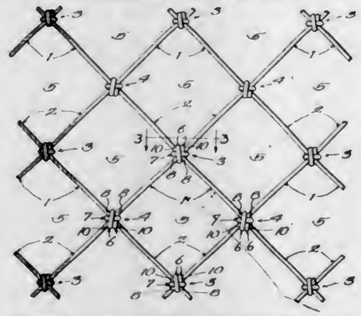
positioned so as to be forced into the material of a bag as said frame members move outward from each other; and means on said movable frame for disconnecting the bag from the bag engaging members of the fixed frame member when said two members approach each other.

2,162,114
FLUID PRESSURE BRAKING SYSTEM
Wallace F. Oliver, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application December 30, 1935, Serial No. 56,620
11 Claims. (Cl. 60—54.5)



1. A fluid pressure producing device comprising a pair of cylinders, a pair of opposed pistons adapted for independent reciprocable movement and operative contact in one of the cylinders, a piston reciprocable in the other cylinder, mechanical means operatively connecting last said piston to one of the opposed pistons, and means for actuating the other opposed piston.

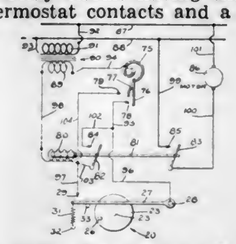
2,162,115
NETTING CONSTRUCTION
Peter T. Pauls, Chicago, Ill., assignor to Pauls Fish Net Company, Chicago, Ill., a corporation of Illinois
Application October 31, 1938, Serial No. 237,905
9 Claims. (Cl. 96—23)



1. Netting constructed of laterally arranged lengths of flexible tie elements interconnected at intervals therealong by knot formations each including a spiral formation of one length comprising a pair of loops and a spiral formation of an adjacent length comprising one loop surrounded by said pair of loops and arranged in interlocked connection therewith to cause portions of the loops to engage opposite sides of each portion of the lengths leading from the knot to hold same separated from each other about the knot.

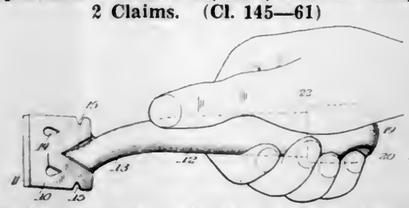
2,162,116
TEMPERATURE CONTROL
Gordon M. Peltz, Elmhurst, New York, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 13, 1933, Serial No. 693,457
16 Claims. (Cl. 236—46)

1. In an automatic fuel supply control system, a room thermostat, fuel supply means, constantly operating timing means, means associated with the room thermostat and timing means for controlling the operation of the fuel supply means including a relay circuit having therein a pair of room thermostat contacts and a second pair



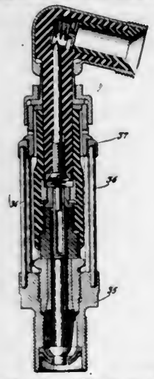
of contacts under the control of said timing means and opened and closed thereby several times a day, a second pair of room thermostat contacts closed at a different temperature than said first pair, and a second relay circuit controlled by said second pair of contacts.

2,162,117
SCRAPER
Harlan A. Perry, Chicago, Ill.
Application December 23, 1937, Serial No. 181,310
2 Claims. (Cl. 145—61)



1. An implement of the character described embodying a handle, a portion of the lateral face of the handle adjacent the free end thereof being removed to form a recess, and a yieldable cap telescoped upon the end of the handle, a portion of the cap extending across such removed portion and adapted to be deflected into the recess by pressure exerted upon the end of the cap and against the adjacent extremity of said handle.

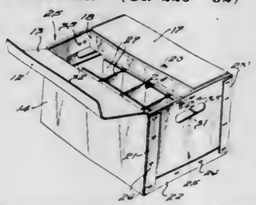
2,162,118
SPARK PLUG SHIELD
Hector Rabezzana, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 24, 1936, Serial No. 65,208
4 Claims. (Cl. 123—169)



1. In electrical shielding means for a spark

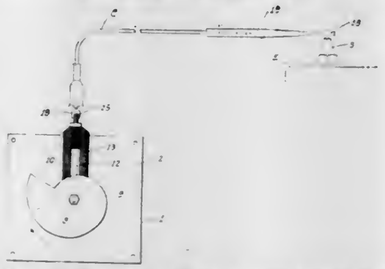
plug and in combination with a base having an externally threaded lower portion, and a passage extending longitudinally thereof and the upper end of which is interiorly threaded; an upper internally threaded ring spaced apart from said base; and a plurality of circumferentially spaced bars separate and independent of one another extending between, and the ends of which are secured within openings provided in, said base portion and said ring.

2,162,119
CARTON
Lawrence W. Reaume, Monroe, Mich., assignor to River Raisin Paper Company, Monroe, Mich., a corporation of Michigan
Application October 22, 1936, Serial No. 106,959
5 Claims. (Cl. 229—52)



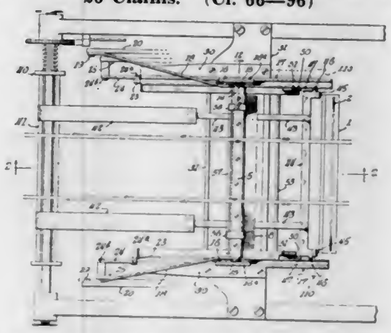
1. An end construction for a carton having a bottom and side walls, comprising a pair of cardboard end pieces positioned face-to-face in contact with each other and secured at three sides to the bottom and sides of the carton, one of said end pieces having a hand hole spaced from the top edge thereof, the other end piece having an opening in alignment with said hand hole and a reinforcing strip secured to the end pieces above the top edge of the hand hole and opening and extending laterally beyond the ends of the hand hole.

2,162,120
MOTOR TUNING INDICATOR
Harlow A. Reed, Oakdale, Calif.
Application June 1, 1937, Serial No. 145,683
4 Claims. (Cl. 88—14)



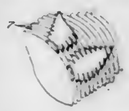
3. A motor tuning indicator comprising a shell having a wall provided with an elongated slot-like window, means mounted in the shell and adapted to be actuated from the ignition circuit of an engine when in operation to produce intermittent flashes of light behind and for the full length of the window, a rotatable member of greater area than the window disposed parallel and adjacent thereto, means mounting the member on the shell in position for movement across the window, means formed with the member to provide a shutter of a size and shape relative to the window so as to cover the same in progressively varying amounts from one end to the other with the rotation of the member in a certain direction and means to rotate the member in said direction and at a constant speed so that the shutter will recurringly thus cover the window.

2,162,121
AUTOMATIC WELT TURNING MECHANISM
Julius C. Ruedt and William C. Redeen, Milwaukee, Wis., assignors to Phoenix Hosiery Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 13, 1936, Serial No. 58,824
26 Claims. (Cl. 66—96)



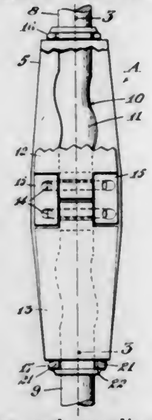
1. An automatic welt turning and closing mechanism for full fashioned knitting machines having a series of needles and comprising a welt bar having a series of hooks, one for each needle, means supporting said bar for translatory movement toward and away from and vertically with respect to the needles and also for rotation about its own axis, means for moving the bar to cause it to act as a take-up for the welt as the same is being knit and thereafter to transfer the loops of the first course back onto the needles, in combination with a take-up having a spring biased roller, take-up straps, hooks connected to said straps, a take-up rod, means for automatically transferring the take-up rod from the welt bar to the hooks during the welt turning operation and automatically operating latching mechanism for holding the hooks in position to receive the rod during the knitting of the welt and releasing the hooks to allow the take-up to function upon the completion of the welt turning and closing operation.

2,162,122
METHOD OF TAKING SAMPLES
William J. Resch, Woodland, Calif., assignor to Spreckels Sugar Company, San Francisco, Calif., a corporation of California
Application September 7, 1937, Serial No. 162,825
1 Claim. (Cl. 146—219)



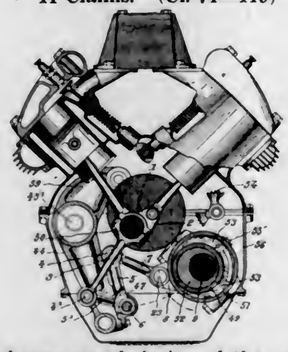
The method of determining the quantity of a constituent such as sugar in a beet, which comprises sawing entirely through the entire body portion of the beet simultaneously along a multiplicity of spaced, parallel planes only and thereby producing beet sawdust and relatively thin slices, collecting the beet sawdust separately from the slices and determining the sugar content of said collected beet sawdust by testing the same.

2,162,123
SUCKER ROD CONNECTION
Herman F. Richter, Los Angeles, Calif.
Application November 10, 1937, Serial No. 173,829
5 Claims. (Cl. 287—103)



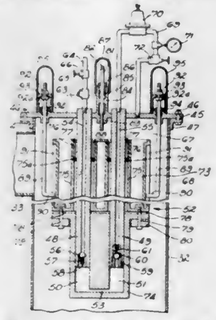
1. In a sucker rod coupling a body portion formed with an open irregular channel, a leaf pivoted at one end to swing toward and away from the channeled side of said body portion, said leaf having a resilient outer end portion formed with a recess and being out-turned relative to said body portion and adapted to be sprung toward said body portion under tension, and a fastener engaged with said body portion and engageable with said recess.

2,162,124
CHANGE-SPEED DEVICE
Leo Robin and Mathieu Van Roggen, Sprimont, Belgium
Application November 27, 1936, Serial No. 113,073
In Belgium December 14, 1935
11 Claims. (Cl. 74—119)



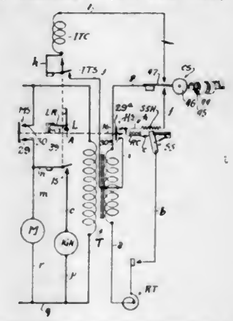
1. A change speed device of the continuously variable transmission type, which comprises, in combination, a frame, eccentric driving means journalled in said frame to turn about a fixed axis, a driving connecting rod pivoted to said driving means, a driven eccentric means journalled in said frame to turn about a fixed axis, a driven connecting rod pivoted to said driven means, a pivot movably mounted in said frame so that its distance from the axis of said driving and driven means varies according to its position, a lever oscillatable about said pivot and interconnecting said connecting rods, the path of displacement of said pivot with respect to the axes of said driving and driven means being such that the curves of homokineity corresponding to the various positions of said pivot with respect to said first axis all pass through the axis of revolution of said driven eccentric means, a driven shaft journalled to turn about a fixed axis, and one-way coupling means between said driven eccentric means and said driven shaft.

2,162,125
FLUID-PRESSURE COUNTERBALANCE
Walter E. Saxe, Alhambra, Calif.
Application February 15, 1937, Serial No. 125,684
14 Claims. (Cl. 267—1)



1. In oil well pumping apparatus the combination with a reciprocating member that moves in one direction under a relatively light load and in the opposite direction under a relatively heavy load of a fluid-pressure counterbalance to store energy from said reciprocating member during the lightly loaded movement thereof and to return energy thereto during the relatively heavily loaded movement thereof, said counterbalance comprising: an enclosed liquid body; a stationary enclosed compressed gaseous body over the liquid body; means operatively connected with said reciprocating member to act against the liquid body thereby causing the gaseous body to expand and contract with movements of the reciprocating member; and a pump to replenish losses from the gaseous body, said pump being actuated by movements of the liquid body.

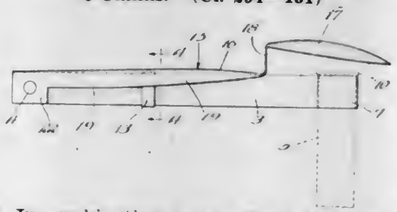
2,162,126
BURNER CONTROL APPARATUS
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application December 14, 1937, Serial No. 179,707
12 Claims. (Cl. 158—28)



1. In burner control apparatus for a burner and

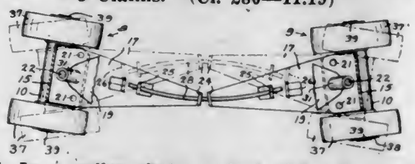
its ignition mechanism, a relay to initiate and maintain operation of the burner, a room thermostat for causing energization of said relay, an ignition switch for the ignition mechanism, a latch for normally retaining said ignition switch open, a latch relase operable by said relay when energized to release said latch and thereby permit said ignition switch to close and means operable upon combustion establishment to open said ignition switch and relatch said latch.

2,162,127
TEST TUBE HOLDER
Hymen Shiller, Chicago, Ill.
Application September 29, 1938, Serial No. 232,374
6 Claims. (Cl. 294—131)



1. In combination, means for releasably holding a test tube for manipulation over a flame, and a shield extending over the top of the tube but spaced therefrom to permit the free egress of vapors from the tube.

2,162,128
ROLLER SKATE
Alvin H. Shoemaker, Seattle, Wash., assignor of one-half to Jacob George Smith, Seattle, Wash.
Application March 10, 1937, Serial No. 130,017
8 Claims. (Cl. 280—11.19)



1. In a roller skate, a foot plate; two roller skate trucks pivotally mounted on said foot plate adjacent the respective ends thereof; two coupling members rigidly connected with the respective skate trucks and otherwise free from connection with the foot plate and extending toward each other beneath the foot plate and terminating with their end portions closely adjacent each other; a spring member paralleling adjacent portions of said two coupling members; and means operatively connecting said spring member with each of said coupling members at a plurality of spaced apart points, whereby said spring member will compel substantially equal transverse movement in the same direction of the adjacent end portions of said coupling members and resistance of said spring member to flexure will yieldingly resist sidewise deflection of said coupling members.

2,162,129
FLUORINE CONTAINING LAYER ON LIGHT METALS
Julius Söll, Leverkusen-I. G. Werk, Germany, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
No Drawing. Application July 23, 1936, Serial No. 92,251. In Germany July 27, 1935
3 Claims. (Cl. 204—19)

1. A process of forming a protective fluorine containing layer on articles made of a metal of the group consisting of magnesium and magnesium base alloys, which comprises subjecting a fused electrolyte, comprising at least one poly-acid fluoride having the composition $YF.x(HF)$, wherein x is at least 2 and not more than 5 and YF stands for a member of the group consisting of the alkali metal fluorides, ammonium fluorides, amido fluorides and amino fluorides, to electrolysis while employing such metal article as the anode.

2,162,130
WIRE ROPE OR CABLE
William E. Somerville, Coal City, Ill.
Application July 1, 1938, Serial No. 217,097
6 Claims. (Cl. 57—145)



1. A rope or cable embodying a stranded body, the periphery of the body comprising a plurality of separate elements contacting each other, certain of said elements being formed of softer material than certain other of said elements, whereby the harder elements will be seated or imbedded in the softer elements.

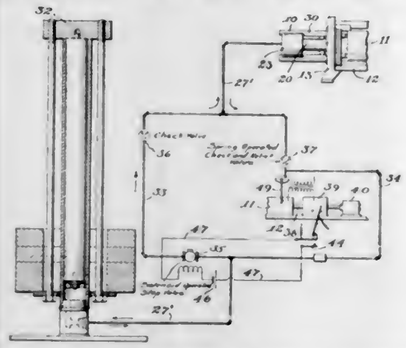
2,162,131
HIGH SPEED STRANDING OR WIRE ROPE MACHINE
William E. Somerville, Coal City, Ill.
Application July 1, 1938, Serial No. 217,098
16 Claims. (Cl. 57—59)



1. In a machine of the character described, a tubular body, means mounting the body for rotation on a horizontal axis, said means embodying a trunnion, a plurality of cradles mounted in said body and spaced from each other in directions lengthwise of the body, a gear connection between the proximate ends of the cradles and extending across the space therebetween, a shaft connected to one of the cradles for supporting one end thereof, said shaft extending through said trunnion, a gear connected with said trunnion and meshing with another gear, an operative connection between the last said gear and said shaft and embodying speed reduction mechanism, and means for rotating said body and said trunnion.

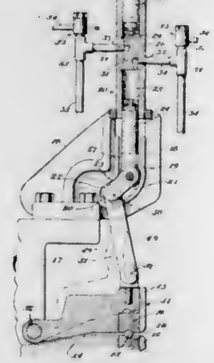
2,162,132
HYDRAULIC MACHINE
William H. Spire, Cleveland, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application March 19, 1936, Serial No. 69,744
13 Claims. (Cl. 60—51)

1. A hydraulic machine comprising a source of fluid under pressure, a movable member, means to push said member in one direction of movement, and means in connection with said source and with said movable member arranged to selectively oppose movement of said movable member, said means comprising a first cylinder, conduit means connecting said first cylinder with said source of pressure, a valve interposed in said conduit, a second cylinder slidable in said first cylinder and in fluid communication therewith, a piston slidable in said second cylinder,



said movable member being in engagement with said piston, and means responsive to movement of said movable member to operate said valve.

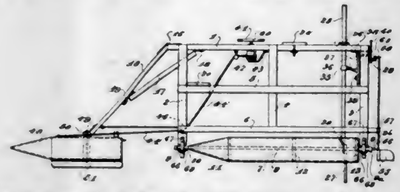
2,162,133
HYDRAULIC FORCE-MULTIPLYING MACHINE
William H. Spire, Cleveland, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application March 19, 1936, Serial No. 69,745
3 Claims. (Cl. 81—17)



2. A clamp comprising a support, a jaw hinged at one end to said support, an anvil, means forming a curved guideway defining a path inclined downwardly towards the hinged end of said jaw and terminating in a toe, a link pivotally connected at one end to the free end of said jaw and having its other end movable along said curved guideway, and means to compel movement of the other end of said link towards said toe to close said clamp.

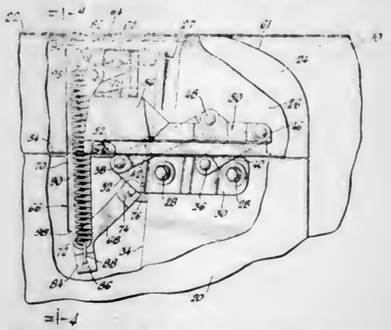
2,162,134
FLOAT
Ray Squier, Clifton Springs, N. Y.
Application August 2, 1937, Serial No. 156,846
8 Claims. (Cl. 115—22)

1. A float comprising a central horizontal beam, one-piece swinging arms projecting on each side of said beam and extending outwardly and downwardly therefrom, pontoons swiveled on a horizontal axis between the ends of said



arms on each side of said beam and parallel thereto.

2,162,135
HOOD SUPPORT
William J. Tell, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 28, 1938, Serial No. 232,191
9 Claims. (Cl. 217—60)

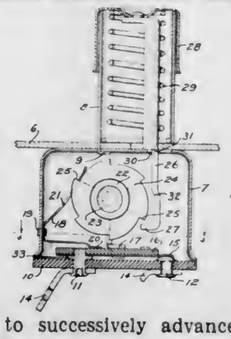


1. In a support for the door of the hood of an automotive vehicle, a first link pivoted to the vehicle, a second link pivoted to the door, said links pivoted to each other, an extension on one link extending past the point where the two links are pivoted to each other, a plurality of springs, one end of the springs being secured to the second link where it is pivoted to the hood door, the other end of the springs being secured to the extension of the first link, said extension being out of alignment with the first link whereby the line of application of force of the springs when the hood is in lowered position is on one side of the interpivotal point of the two links and is on the other side of the said point when the hood door is slightly raised, whereby the springs tend to straighten the links when the hood door is raised to aid the raising of the hood door.

2,162,136
DIMMER SWITCH
Joel R. Thorp and Holdridge W. Marsh, West Allis, Wis., assignors to The Fulton Company, West Allis, Wis., a corporation of Wisconsin
Application March 27, 1937, Serial No. 133,391
9 Claims. (Cl. 200—156)

1. In a switch, a contact plate pivotally supported upon a fixed terminal and having its swinging end alternately cooperable with independent fixed contacts, a rotor revolvable about an axis disposed laterally of the plane of movement of said plate and extending transversely of the axis of said pivotal supporting terminal and successive peripheral portions formed to oscillate said contact plate in a plane in opposite directions when said rotor is advanced by steps equal

to the distance between said successive portions, and an element movable toward and away from



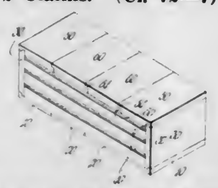
said plane to successively advance said rotor by said steps.

2,162,137

CASKET CONTAINER

Decio Torricelli, Springfield, Mass.

Application August 16, 1938, Serial No. 225,252
2 Claims. (Cl. 72—7)



1. A knock-down casket container comprising in combination, a horizontal bottom wall section formed to have an upstanding tongue at each of its opposite ends and a groove at the inner side of each tongue, said bottom wall section also being provided with a pair of longitudinally-extending tongues spaced inwardly from its side marginal edges, vertical side wall sections extending upwardly from the opposite sides of said bottom wall section and provided with tongues on their upper sides and grooves in their lower sides which receive the last-named tongues on the bottom wall section, vertical end wall sections extending upwardly from the opposite ends of said bottom wall section and provided with tongues on their upper sides and tongues on their lower sides which fit into said grooves in said bottom wall section, said end wall sections being provided with vertical grooves on their inner faces adjacent their side edges which receive opposite ends of said side wall sections, and a horizontal cover section provided with grooves in its lower side which receive said tongues on the upper sides of said end and side wall sections, all adapted and arranged whereby said sections are held in engagement with each other in set up relation so as to form a hollow receptacle.

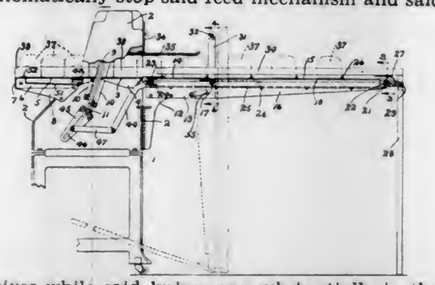
2,162,138

AUTOMATIC BREAD SLICING MACHINE

Howard B. Tuthill and Harry F. Caldwell, Grand Rapids, Mich., assignors to Oliver Machinery Company, Grand Rapids, Mich., a corporation of Michigan

Application August 17, 1936, Serial No. 96,434
2 Claims. (Cl. 146—153)

1. A slicing machine of the class described comprising feed and delivery tables, two banks of knives, means for alternately reciprocating said banks, means to feed loaves to and past said knives step by step only during the downward movement of one of said banks, and means to automatically stop said feed mechanism and said



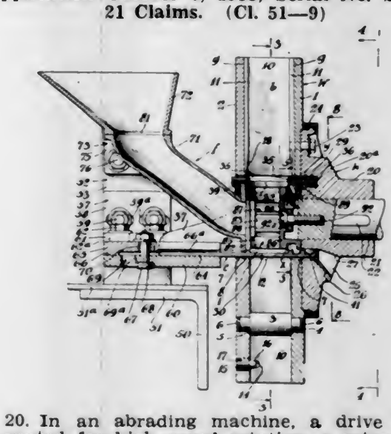
knives while said knives are substantially in the center of a loaf and when the outermost loaf reaches the end of said delivery table.

2,162,139

CENTRIFUGAL ABRASIVE PROJECTING MACHINE

Chester E. Unger, Mishawaka, Ind., assignor to The American Foundry Equipment Company, Mishawaka, Ind., a corporation of Delaware

Application October 7, 1938, Serial No. 233,741
21 Claims. (Cl. 51—9)



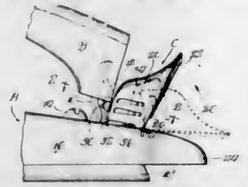
20. In an abrading machine, a drive shaft mounted for high speed rotation, a rotor head fixed to said drive shaft, a plurality of blades mounted on said head and terminating short of the axis of rotation of said rotor head to define an abrasive admitting space, a normally stationary tubular abrasive feeding device extending into said space, said feeding device having an abrasive discharge outlet in the tubular side wall thereof, abrasive supply means for conducting abrasive into said tubular abrasive-feeding device positioned forwardly of the discharge outlet therein and an impeller mounted on said shaft and having a plurality of abrasive propelling vanes extending into said feeding device and operative to throw abrasive through said discharge outlet and into the path of rotation of said blades, said rotor head having a rotatable portion rearwardly of said abrasive discharge outlet in said abrasive-feeding device, said rotatable portion having air inlet ports extending therethrough to admit air into said tubular abrasive feeding device, whereby to balance any differences in pressure in said abrasive admitting space resulting from the high speed rotative movement of said bladed rotor head.

2,162,140

SADIRON ATTACHMENT

Norman D. Vea, Dover, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri

Application March 12, 1938, Serial No. 195,533
5 Claims. (Cl. 219—25)



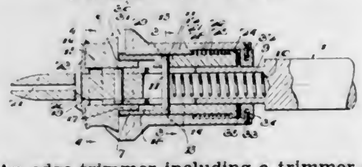
5. In an electric sadiron assembly including a base for supporting the parts, the combination of a shell, an attachment securable to the rear of the shell providing a support for the iron in upstanding position and a handle provided with a bracket for attaching said handle to the base, said attachment having downward extending hook elements at one side adapted to engage the casing when in a backward tilted position and having forwardly extending hook elements at the other side, retaining means in the handle bracket adapted to engage the forwardly extending hook elements to secure the attachment thereto so that the attachment may be swung from tilted position upward into an assembled position and a securing means for holding said bracket in place whereby the attachment is fastened immovably in position.

2,162,141

QUICK CHANGE EDGE TRIMMER

Edward Thomas Vest, Richmond, Va.

Application June 24, 1938, Serial No. 215,677
7 Claims. (Cl. 12—92)



1. An edge trimmer including a trimmer shaft having an outer tubular portion, a lock stud secured within the tubular portion of the shaft and having an outer tapered portion projecting beyond the shaft and adapted to form a guard disk guide and provided with a bayonet slot having opposite transverse and terminal portions, a guard disk having an opening receiving the lock stud and provided with a fixed transverse locking portion extending across said opening and arranged in the bayonet slot and adapted to be carried by a partial rotary movement of the guard disk into the transverse and terminal portions of the slot, said guard disk being adapted to engage a sole trimming cutter at the outer side thereof, and yieldable means carried by the trimmer shaft for engaging said cutter at the inner side thereof for holding the cutter against the guard disk.

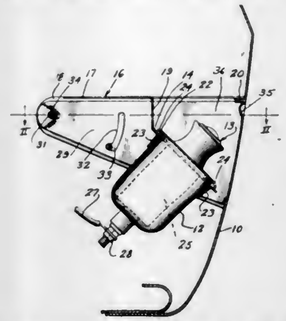
2,162,142

ASH RECEPTACLE ASSEMBLY

John Visser, Grand Rapids, Mich., assignor, by mesne assignments, to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan

Application April 24, 1937, Serial No. 138,766
12 Claims. (Cl. 206—19.5)

1. With an apertured panel, an ash receptacle assembly comprising a supporting flange disposed behind said panel at an oblique angle thereto to form a concealed pocket accessible through an aperture in said panel, an ash receptacle extending downwardly from said flange and de-



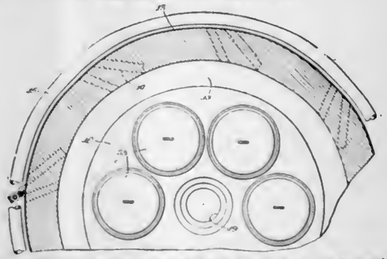
tachably suspended therefrom, said receptacle having an opening accessible from said pocket, and a cover having supporting means thereon to accommodate movement into and out of said aperture.

2,162,143

APPARATUS FOR THE ANNEALING OF METAL

George W. Vreeland, Maplewood, N. J., assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application July 1, 1937, Serial No. 151,375
1 Claim. (Cl. 263—42)



A platform type annealing furnace, comprising a platform of substantially circular shape having burners extending inwardly at its periphery, waste gas withdrawing means adjacent the center, an intermediate, circularly extending material receiving floor, cylindrical material receiving containers on said floor, said containers having central vertical flues, connections below said flues to the central waste gas withdrawing means, and a removable cover seating on said platform.

2,162,144

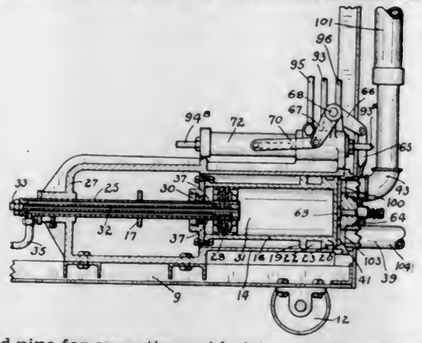
PUMP AND METERING DEVICE

Edward H. Waugh, Woodinville, Wash., assignor to C. M. Ambrose, Seattle, Wash.

Application November 12, 1935, Serial No. 49,418
3 Claims. (Cl. 103—50)

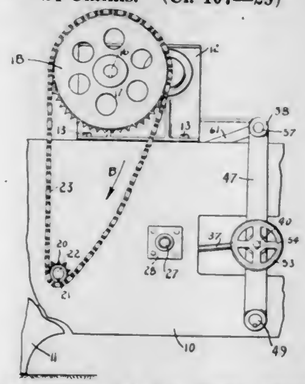
1. The combination with open-end cylinder having a ported-head, a ported valve mounted on the head, and means for oscillating the valve, of a hollow piston having closed ends and reciprocable in the open-end cylinder, a fixed tubular stem extended through an end-opening into the piston, a fixed head on the stem within the piston, said stem having a port at one side of the head, a pipe within the stem having a port at

the opposite side of the head, means for alternately supplying air under pressure to said stem



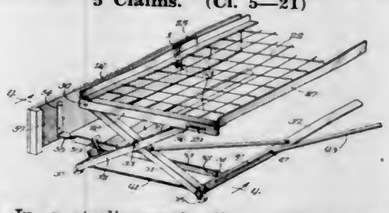
and pipe for operating said piston, and pneumatic means for operating said ported valve in synchronism with the piston.

2,162,145
COOKY MACHINE MECHANISM
Frank Charles Werner, Grand Rapids, Mich.
Application April 20, 1938, Serial No. 203,139
24 Claims. (Cl. 107—29)



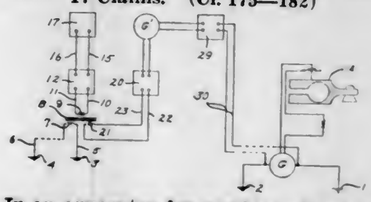
1. In a machine of the class described, the combination of a frame, a downwardly facing spout, means for continuously forcing cooky dough or the like therefrom, second means for mounting the aforesaid means and the spout upon the said frame, a horizontal cross shaft located upon said frame, said shaft carrying an eccentric thereon, said shaft also carrying a cam thereon, the cam being a radial cam and having a low part for approximately one-half its circumference and a high part for approximately one-half of its circumference, a second horizontal cross shaft, an upstanding arm having its base pivotally mounted upon said second cross shaft, an eccentric portion located on said upstanding arm and being movable to different positions, means for locking the eccentric portion in a chosen position, a pitman connecting the said eccentric portion and the said eccentric, cutting means pivotally attached to the upstanding arm, said cutting means extending underneath the spout, a bracket pivoted to the frame laterally of said cam, means on said bracket engaging the surface of the cam, track means on said bracket, means cooperatively associated with said track means and said cutting means whereby they move simultaneously, said track means being horizontally positioned when said cam engaging means is in contact with the high part of the cam and means for mounting the radial cam and the eccentric so that the cutting means moves horizontally while it is in operation, and means for driving the first mentioned horizontal cross shaft.

2,162,146
STUDIO COUCH
Arthur Wesley, Chicago, Ill., assignor to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware
Application February 19, 1938, Serial No. 191,416
5 Claims. (Cl. 5—21)



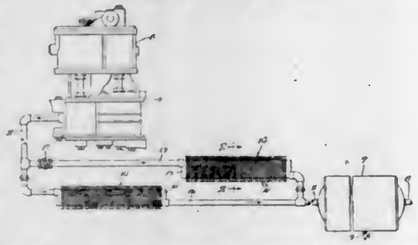
1. In a studio-couch, the combination of a main open-side couch-section, a companion couch-section adapted to be nested under, or to be slidingly withdrawn through said open-side from beneath, said main couch-section without modifying the condition of the latter, said companion couch-section having supporting, elevating and lowering means bearing directly on the floor and constructed to be actuated by the operator to elevate and to wholly support said companion couch-section for use after sliding withdrawal thereof from said main couch-section and to lower the same to allow said companion couch-section to be slid beneath said main couch-section, said supporting, elevating and lowering means including a pair of crossed-legs at each end of the companion couch-section hinged together at their crossing points, a hinge-connection for one of said legs of each pair with said companion couch-section, a shiftable connection for the other leg of each pair with said companion couch-section, means to releasably lock each pair of said legs against turning on their crossing-point hinges, whereby to maintain said companion couch-section in its operative elevated position, said two locking-means being located beneath and within the length covered by said companion couch-section, and a longitudinal panel of the studio-couch accessible to, and operable by, the operator and connected to both of said locking-means to effect their simultaneous release.

2,162,147
MEANS AND METHOD OF ELECTRICAL PROSPECTING
Samuel S. West, Houston, Tex., assignor to Esme E. Rosaire, Houston, Tex.
Application July 3, 1937, Serial No. 151,788
17 Claims. (Cl. 175—182)



3. In an apparatus for geophysical prospecting by measurement of wave form distortion of an alternating current passing through subterranean media, in combination, means for causing a periodic current to flow in the earth, means for detecting the potential difference between points subject to the influence of said current, means for generating a second potential of a wave form similar to that of said first mentioned means, means for synchronizing the second potential with the generated potential, and means for measurably distorting the second potential to oppose the detected potential.

2,162,148
AIR COMPRESSION SYSTEM OF VARIABLE RADIATION CAPACITY
Lyndon F. Wilson and John M. Lammedee, Chicago, Ill., assignors to Wilson Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application August 31, 1938, Serial No. 227,696
4 Claims. (Cl. 303—1)



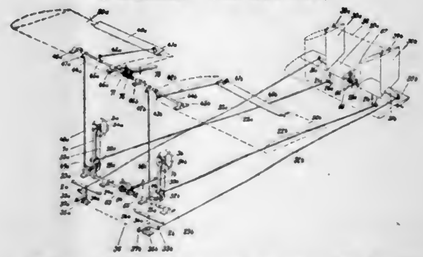
1. A variable radiation air compression apparatus for railway air brake systems comprising, an air compressor; a compressed air storage reservoir for supplying air to a braking apparatus; and means for unobstructedly delivering compressed air from the compressor to the reservoir and for cooling said air en route, said means including a plurality of radiation units, a pipe system, and a control valve whereby the air may be directed through one or more of said units to vary the radiation capacity of said system at will.

2,162,149
HAT
Edward Wittcoff, University City, Mo., assignor to Caradine Hat Company, St. Louis, Mo., a corporation of Missouri
Application May 26, 1937, Serial No. 144,836
3 Claims. (Cl. 2—175)



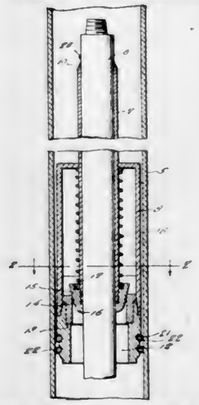
1. A hat comprising, a crown portion having an annular head-encircling side wall, a brim portion extending upwardly around and against the lower outer face of the side wall and then rolled in a wide curve separated from the head-encircling side wall and flared downwardly and outwardly from said rolled formation, and means securing the overlying part around the head-encircling wall.

2,162,150
CONTROL OF AIRCRAFT
Erich Wolf, Dessau, Germany, assignor to Junkers-Flugzeug- und Motorewerke Aktiengesellschaft, Dessau, Germany
Application June 20, 1936, Serial No. 86,395
In Germany July 2, 1935
9 Claims. (Cl. 244—84)



1. In an aircraft having a pair of duplicate control surfaces, disengageable coupling means directly operative between said control surfaces comprising one clutch element on one said surface and a cooperating clutch element on the other said surface, means for readily disengaging said coupling means, a control member, and power transmission mechanism between said control member and one of said control surfaces whereby the other control surface may be actuated by said control member or remain inoperative.

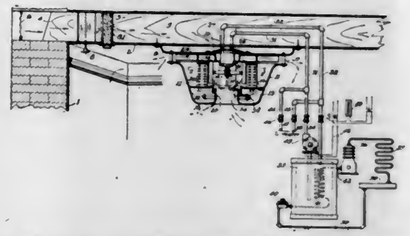
2,162,151
VALVE FOR WELL PUMP RODS
William John Wranosky, Freer, Tex.
Application February 1, 1938, Serial No. 188,161
1 Claim. (Cl. 103—229)



A valve for the pump rod of an oil well comprising a sleeve having a working fit upon said rod, a valve cage having an opening in its upper portion slidably receiving said sleeve, said cage being spaced from the sleeve and having openings for the passage of fluid through the cage, a valve body threadedly secured to the lower end of said cage, packing means surrounding the valve body and engaging the tubing of the well, a valve seat carried by said body, a valve threadedly secured to the lower end of said sleeve and arranged in cooperating engagement with said valve seat, said valve having an opening for the passage of the rod, said valve being responsive to pressure below the valve for opening movement, a spring surrounding the sleeve and having one end en-

gaging the valve and its other end engaging the top of the cage for holding the valve upon the seat and the upper end of the sleeve being beveled for scraping foreign matter from that part of the rod which it engages.

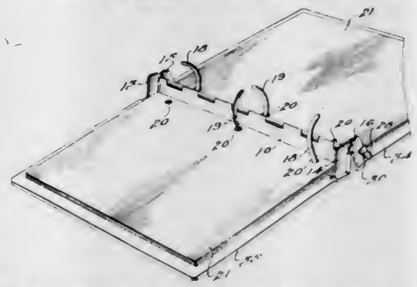
2,162,152
AIR CONDITIONING SYSTEM
William A. Wulle, Chicago, Ill.
Application February 27, 1935, Serial No. 8,489
6 Claims. (Cl. 257—244)



1. In an air-conditioning system for enclosures, an air-conditioning unit mountable at the ceiling of the enclosure, temperature-conditioning means within said unit, means for moving air through said unit and discharging it laterally along the ceiling, a water pan beneath said unit, means for automatically supplying water to said pan, and an air inlet to said unit passing through said pan.

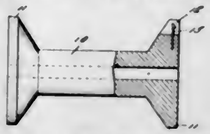
3. In an air-conditioning system of the character described, an air-tempering unit arranged in circular form and having guiding means providing radial air passages therethrough, a pressure blower adapted to force air from within said unit outwardly through said passages, and a suction blower moving radially beyond said passage adapted to withdraw air from the space surrounding said unit.

2,162,153
LOOSE LEAF BINDER
Edward H. Zerbe, Grosse Pointe Park, Mich., assignor to The Burkhardt Company, a corporation of Michigan
Application March 31, 1938, Serial No. 199,148
1 Claim. (Cl. 129—17)



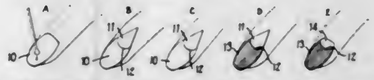
In a hinged angle back loose leaf binder having a plurality of leaf impaling prongs projecting from the upstanding legs of the angles of the angle back thereof adapted for use with filler sheets having three impaling apertures therethrough, the combination of a pair of centrally disposed opposed arcuate half round leaf impaling prongs adapted to register with each other and with the central sheet aperture when the binder is partially or fully closed and one arcuate round leaf impaling prong projecting from each angle of the said angle back spaced laterally from the flat face of each of the said half round prongs to engage the corresponding end sheet aperture.

2,162,154
NEEDLE THREADING DEVICE
Rex I. Bissell, Willamina, Oreg.
Application December 10, 1937, Serial No. 179,195
1 Claim. (Cl. 223—99)



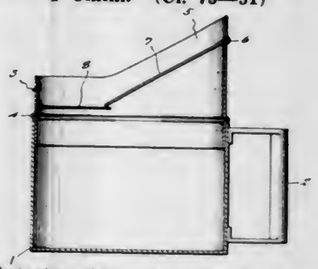
A needle threading device comprising an elongated handle forming member of fibrous material having a flange of substantially cylindrical shape at one end thereof, said flange having a notch in the peripheral portion thereof which passes through the inner and outer faces of the flange, said notch having a straight bottom wall, a shank having one end portion embedded in the straight wall and having a barb at its free end, said shank and barb being located within the recess.

2,162,155
METHOD AND APPARATUS FOR TREATING NAILS
Conrad C. Calvin, New York, N. Y.
Application May 6, 1935, Serial No. 19,976
31 Claims. (Cl. 132—73)



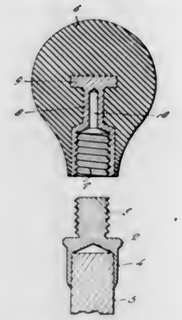
1. A device for treating nails which comprises a mask of material impervious to nail treating substances and a non-drying adhesive resistant to the same substances disposed on the surface of the mask which is to be pressed into intimate contact with the nail.

2,162,156
MILK TESTER
John Dumont Case, Clinton, N. J.
Application March 24, 1938, Serial No. 197,924
1 Claim. (Cl. 73—51)



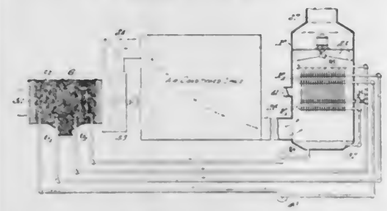
A milk tester of the class described comprising a substantially ovate receptacle, a handle on one end of said receptacle, a frame removably mounted in the upper portion of the receptacle and conforming thereto, said frame including a rib on its outer periphery engageable with the top of the receptacle, the large end portion of the frame having an inclined top extending upwardly from the small end portion of said frame, the large end portion of the frame having a channel in its inner periphery, a black, inclined flat plate removably mounted in the channel, and a horizontal screen mounted in the frame at the lower end of the inclined plate.

2,162,157
BATON
Edward L. Clark, Elkhart, Ind.
Application October 12, 1938, Serial No. 234,725
3 Claims. (Cl. 84—477)



1. A rubber head for batons having an internally threaded connector imbedded therein for detachably connecting the head to the baton and a chamber formed in the connector adapted to receive a weight to increase the weight of the head.

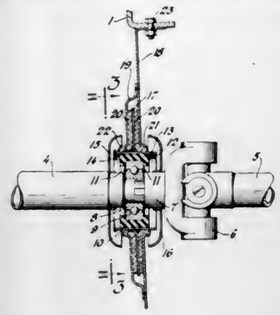
2,162,158
AIR CONDITIONING
Stewart Clark Coey, Glen Ridge, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application November 27, 1936, Serial No. 113,059
17 Claims. (Cl. 62—129)



1. The method which comprises bringing gas to be supplied to an enclosure into contact with a moisture aborbing agent, removing heat from the gas by indirect heat exchange with a heat transfer fluid supplying the gas to the enclosure, and thereafter contacting the gas leaving said enclosure with a stream of water which is in heat exchange relationship with said heat transfer fluid whereby the heat transfer fluid is cooled by the evaporative cooling effect of the outgoing gas.

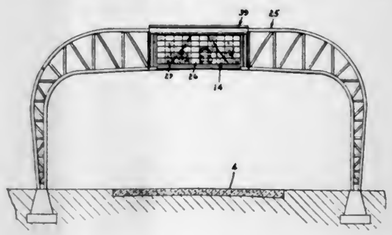
2,162,159
PROPELLER SHAFT SUPPORT VIBRATION DAMPER
Edward N. Cole, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 14, 1937, Serial No. 148,009
10 Claims. (Cl. 308—26)

1. In a motor vehicle, an intermediate support for a jointed propeller shaft, including a bearing for rotatably supporting the shaft, elastic deformable material to receive the load on said



bearing, confining means for said material, and a frictional damping device operative on said confining means.

2,162,160
VISION APPARATUS
Ralph M. Cooley and Rufus R. Rand, Jr., Minneapolis, Minn., assignors to Trafficscope, Inc., Minneapolis, Minn., a corporation of Minnesota
Application January 14, 1938, Serial No. 185,048
23 Claims. (Cl. 88—1)

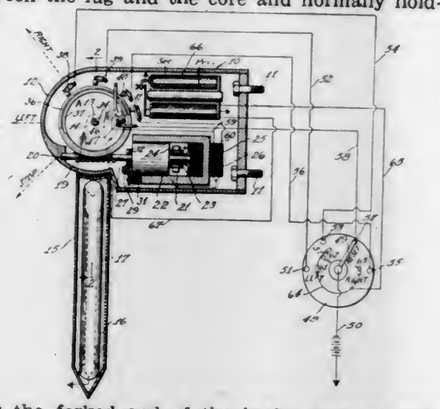


1. A vision apparatus for improving the safety of a highway along which visibility is restricted to an insufficient minimum distance by a hazard such as a convex vertical grade change, comprising light transmitting refractor means for refracting light rays through an angle from viewing points along said highway in one direction from said hazard to fields of view including said highway in the other direction from said hazard, and means for mounting said apparatus in a superior position with respect to the highway near said hazard.

2,162,161
ELECTRIC SIGNAL FOR MOTOR VEHICLES
Albert B. Cotant, Pocatello, Idaho
Application October 21, 1936, Serial No. 106,890
1 Claim. (Cl. 177—327)

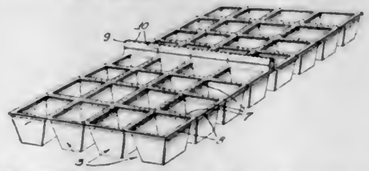
In a signal device, a casing, a shaft projecting through the casing, a signal arm secured to the end of the shaft, a motor in the casing having a shaft geared to the first named shaft, a pivoted brake having a forked end straddling the motor shaft, an insulating washer on the motor shaft forming a friction disc against which the forked end of the brake engages for stopping rotation of the motor, the motor having a field core, a lug on the brake projecting across the field core, said lug forming an armature adapted to be attracted by the core when the motor is energized to disengage the forked end of the brake from the friction disc to permit the motor

armature to rotate, and a spring engaged between the lug and the core and normally hold-



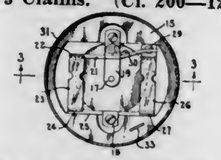
ing the forked end of the brake engaged with the friction disc.

2,162,162
QUICK FREEZING ICE TRAY
Jose H. de Murguiondo, Washington, D. C., assignor of one-fourth to Amalia de Murguiondo Riggo, one-fourth to Nomita von der Heide, and one-fourth to Erik von der Heide, all of Washington, D. C.
Application March 5, 1938, Serial No. 194,204
3 Claims. (Cl. 62—108.5)



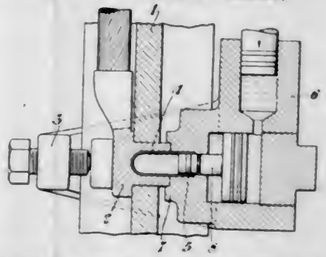
1. A quick freezing tray for ice cubes or the like formed of readily destructible water-proofed material and comprising a multiplicity of individual cups having their upper edge portions joined together by relatively narrow portions of the top of the tray to facilitate tearing the individual cups from the tray, the tray being provided with a medial barrier wall upstanding from the top thereof and extending transversely across the tray.

2,162,163
AUTOMATIC FUSE PLUG
Nicholas Dippel, Brooklyn, N. Y.
Application July 27, 1937, Serial No. 155,994
3 Claims. (Cl. 200—126)



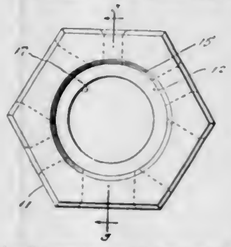
1. A device of the type described comprising an electrically insulative casing member, a plurality of electrically isolated terminals mounted on said casing, a plurality of electrically conductive strip elements, bent at the ends, physically alterable in a predetermined manner by known variations in electrical circuits wherein said elements are included, bifurcated supporting members engaging with bent end portions of said elements for holding same within the casing; means for connecting certain of said elements in series with said terminals without so connecting other of said elements, and means solely actuatable by aforementioned physical change in elements so connected whereby the elements not theretofore connected in the electrical circuit are made a part thereof and substituted for the altered elements.

2,162,164
INSTALLING RAIL BONDS
Harold H. Febrey, South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application May 19, 1936, Serial No. 80,597
1 Claim. (Cl. 29—155.55)



A method of expanding a rail bond terminal stud of the hollow type in a rail hole, including providing a supply of material substantially softer than the metal of said stud, introducing said supply internally in said stud and applying pressure to said supply to cause it to exert a sufficient internal expansive force on said stud to effect its expansion, said supply being in excess of that required to effect complete expansion of said stud in a rail hole which it fits properly, and said pressure being maintained on said supply until complete expansion of said stud in its entirety is effected, whereby said stud may be completely and entirely expanded in a rail hole that is oversize or of a contour different from that of said stud, said supply being in the form of a substance that is normally liquid and which is contained in a thimble, and said stud being of the type having an externally accessible opening through which said thimble may be inserted.

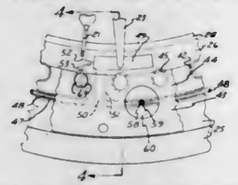
2,162,165
SHAPING TOOL
John E. Gabel, Ashland, Pa.
Application May 13, 1938, Serial No. 207,833
1 Claim. (Cl. 153—79)



A shaping tool comprising a body having a plurality of angularly related flat striking faces and opposed end flat faces, said body having a bore of different diameters extending from end to end

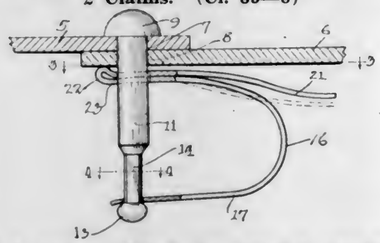
through the end faces and provided with flared ends in said end faces, said body being further provided with bores of different diameters communicating with the first-named bore and opening outwardly through said angularly related faces of the body and each having a flared end to receive a flared end of a tube to permit positioning of the body on the tube so that said body may be struck a hammer blow on the face opposite to the bore receiving said tube for forcing the body onto the tube and thereby bring about contraction of the flared end of the tube to a diameter corresponding to the original diameter of the tube.

2,162,166
CLOCK WITH ATTACHMENT
John Gorrien, Minneapolis, Minn.
Application February 12, 1937, Serial No. 125,462
7 Claims. (Cl. 200—37)



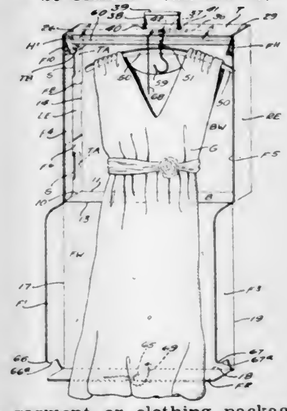
1. A switch mechanism comprising a plurality of separate tubular conducting elements, a conducting member in spaced relation to said tubular conducting elements, a conducting plug adapted to be set in any selected one of said tubular conducting elements in engagement therewith and in engagement with said conducting member, a plurality of conducting strips arranged in spaced relation to each other, a movable switch element adapted to successively wipe over said conducting strips, a second movable switch element adapted to successively wipe over said tubular conducting elements, and said switch element when in engagement with one of said conducting strips while said second switch element is in conducting engagement with one of said tubular conducting elements having a plug therein in conducting engagement with said conducting member being adapted to close a circuit.

2,162,167
AUTOMATIC BOLT-UP DEVICE
Lambert L. Greterman, Santa Monica, Calif.
Application September 29, 1937, Serial No. 166,445
2 Claims. (Cl. 85—8)



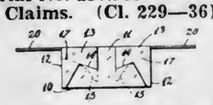
2. A bolt-up device for holding overlapped plates together embodying a bolt shank having a head formed thereon and capable of being inserted through openings in said overlapped plates, a reduced section formed on said shank and having a head at its free end, said reduced section having flattened sides, and a looped spring clip to be applied to said bolt shank, one end portion of the clip being bent upon itself to form contact points to engage one of the plates and having a slot therein to receive and embrace the larger section of the bolt shank, and the opposite end of the clip having a slot therein and terminating in an opening of slightly larger diameter than the width of the latter slot to receive the reduced flattened end of the shank whereby when the clip is applied to the bolt and given a substantially one-quarter turn, the bolt and clip will be locked together.

2,162,168
PACKAGING DRESSES AND THE LIKE
John E. Eboli, New York, N. Y., assignor of one-half to William T. Kniesner, Larchmont, N. Y.
Application May 26, 1938, Serial No. 210,103
20 Claims. (Cl. 206—7)



13. A garment or clothing package comprising a box-like structure folded out of a blank of a material like cardboard, said blank providing portions which are folded against each other to form a top wall of two layers, there being interposed between said two layers a wire member having two spaced eyes projecting upwardly through the uppermost of said two layers, and handle means having two spaced hooked members respectively engaging said two spaced eyes, said wire member having means projecting downwardly through the lowermost of said two layers and into the interior of said structure for receiving a garment support or the like.

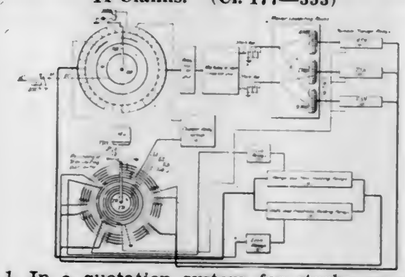
2,162,169
COLLAPSIBLE SHIPPING CONTAINER
Nathan Grossman, Reading, Pa., assignor to Benjamin Grossman, New York, N. Y.
Substituted for abandoned application Serial No. 679,595, July 10, 1933. This application June 29, 1937, Serial No. 150,983
3 Claims. (Cl. 229—36)



3. In a container, a container body of flexible material, having a bottom wall, a side wall extending from one side of said bottom wall, and an end wall extending from one end of said bottom wall and being formed with a slit, and a flap extending from the end of said side wall and having a cutout extending inward from the bottom thereof forming a depending finger which is adapted to be engaged into said slit, said slit having one of its ends and said finger having

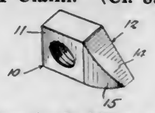
its root point arranged in an arc with its center at the point of connection between said side wall and said bottom wall, the inner edge of said finger being arcuate, and said arcuate inner edge diverging outwardly with respect to said arc, whereby said side wall may be pivoted in an arc so as to engage said depending finger into said slit with the arcuate inner face bearing against the outer end of said slit to draw said end wall and said side wall into a position in which they are at right-angles to each other with said root point engaging the outer end of said slit and the opposite side of said finger engages the other end of said slit to hold said walls against shifting.

2,162,170
DECODER
Raymond M. Hicks, Plainfield, N. J., and Everett R. Leroy, New York, N. Y., assignors to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application January 2, 1931, Serial No. 506,182
11 Claims. (Cl. 177—353)



1. In a quotation system for stocks or other items, an incoming line channel over which quotations each including item selection letter signal impulses comprising an alphabetical designation of an item and digit signal impulses comprising the price portion of the quotation are received in coded time relationship, groups of letter signal storage devices, each group comprising means for storing signals representative of one of a plurality of letters comprising a plural letter item designation, groups of digit signal storage devices, distributor structure for allocating to said groups of storage devices respectively the letter signal impulses and digit signal impulses received over said channel, means controlled by the groups of letter signal storage devices for translating the combined effect of said letter signal impulses into coded digit signals corresponding to a predetermined item designation number comprising a plurality of digits, a retransmitting circuit, and means for retransmitting said item designation number and price signals as coded digit signal impulses over said retransmitting circuit.

2,162,171
HEEL BOLT
Dobbin Holmes, Cordele, Ga.
Application February 16, 1937, Serial No. 126,083
Renewed January 6, 1939
1 Claim. (Cl. 85—32)

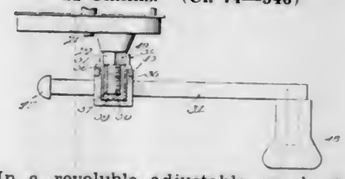


A nut for use in holding a plow scrape on a plow stock, the nut being of rectangular form and being provided upon one edge with a single, approximately triangular, edge offset, which is as long as said edge, the outer edge of the offset being inclined, from one corner of the nut to the outer extremity of the offset, in a direction in which the nut is tightened when it is rotated, the projecting dimension of the offset being less than the breadth of the nut, the edge surface of the offset which is adjacent to the inner end surface of the nut being outwardly inclined with respect to said end surface, the outer surface of the projection being in the same plane with the outer end surface of the nut, the projection being of the same thickness as the nut, where the projection is joined to the nut.

2,162,172
CONDENSATION PRODUCTS OF THE PHENOL-FORMALDEHYDE TYPE
Herbert Hönel, Vienna, and Alois Zinke, Graz, Austria, assignors to Helmuth Reichhold, Detroit, Mich., doing business as Reichhold Chemicals
No Drawing. Application November 18, 1936, Serial No. 111,490. In Germany November 21, 1935
3 Claims. (Cl. 260—51)

1. A non-yellowing condensation product obtained from formaldehyde and 1-alkyl-1-p-hydroxy-phenyl-cycloparaffine.

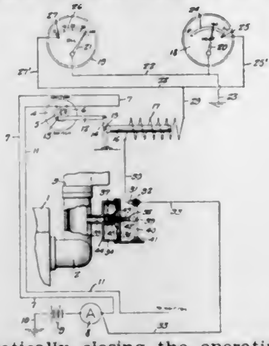
2,162,173
ADJUSTABLE CRANK STRUCTURE
Levin B. Huntington, Jr., Baltimore, Md.
Application February 17, 1938, Serial No. 191,103
11 Claims. (Cl. 74—546)



1. In a revoluble adjustable crank structure for revolving and varying the leverage on a shaft, a carrier, a clockwise and anti-clockwise revoluble crank arm slidably mounted in the carrier, bodily moving the carrier therewith and capable of being adjusted to vary the distance between the ends thereof and the carrier for varying the leverage of the arm on the shaft, an adapter element for connecting the carrier to the shaft for revolving the latter, and said carrier being provided with parts coacting with said adapter element for locking said arm in its adjusted position on the clockwise movement of the arm.

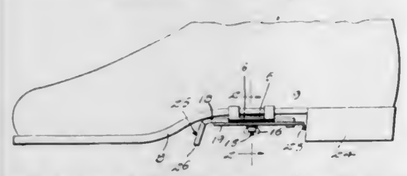
2,162,174
AUTOMATIC PROTECTOR AGAINST OVERHEATING AND LACK OF OIL OR OIL PRESSURE
Roy W. Jones, Hialeah, Fla.
Application July 11, 1938, Serial No. 218,665
5 Claims. (Cl. 123—146.5)

1. In a protective system for operating internal combustion engines, a regular ignition circuit including a manually operable switch for opening and closing the circuit, at will, electrically operated supplemental means for breaking the ignition circuit, said supplemental circuit breaking means having a separate operating circuit and a circuit breaker in its circuit normally open when the engine is not operating but being automatically closed with relayed action by the effect of the operation of the engine, a temperature and/or lubricant indicator or indicators for the engine, and normally open circuit closing means on said indicator or indicators



for automatically closing the operating circuit of the supplemental circuit breaking means for the ignition circuit upon the occurrence of an abnormal condition in the engine translated through said indicator or indicators.

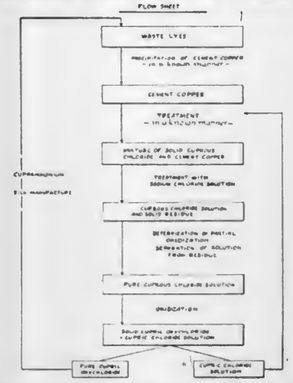
2,162,175
ICE CREEPER
Paul J. Klitsch, Pottsville, Pa.
Application September 12, 1938, Serial No. 229,619
2 Claims. (Cl. 36—62)



1. A device of the character described, comprising, a pair of relatively adjustable transversely extending plates each provided with sole gripping jaws adapted for securing said plates to the sole of a shoe, a pair of relatively adjustable longitudinally extending plates, one of said last mentioned plates fashioned with a recess for accommodating said first mentioned plates in adjusted position, one of said last mentioned plates fashioned with an angularly disposed ice engaging section and the other of said last mentioned plates formed with a heel engaging section, and means securing said plates together in fixed condition and operable to permit adjustment of one pair of said plates relative to the other pair.

2,162,176
REGENERATION OF COPPER FROM CUPRAMMONIUM ARTIFICIAL SILK WASTE LYES
Ernst Kuss, Oskar Emert, and Andreas Hake, Duisburg, Germany, assignors of one-half to Duisburger Kupferhuette, Duisburg, Germany, and one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application February 11, 1937, Serial No. 125,348
In Germany October 13, 1934
10 Claims. (Cl. 23—85)

1. In the process of regenerating copper from the waste lyes obtained from spinning solutions in cuprammonium artificial silk production, the steps which comprise precipitating the copper contained in such waste lye in the form of cement copper, transforming the cement copper into a mixture of cuprous chloride and cement copper, treating the mixture of cuprous chloride and cement copper with sodium chloride solution whereby to dissolve cuprous chloride, separating the resulting cuprous chloride solution from undissolved residue, oxidizing the so separated solution of substantially pure cuprous chloride with air, and separating and washing the so precipitated substantially chemically pure cupric oxychloride which is specially adapted for direct use in making cuprammonium cellulose solution for spinning purposes.



2,162,177
COATING FOR FASTENINGS
Ernest W. D. Laufer, Arlington Heights, and Clarence P. Reis, Chicago, Ill., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
No Drawing. Application November 17, 1937, Serial No. 175,172
11 Claims. (Cl. 85—10)

7. As a new article of manufacture, a wire nail having a coating consisting of a resinous material having a pyroxylin base dissolved in a solvent, said coating adapted to adhere to the surface of said nail to increase the coefficient of friction between said nail and wood.

2,162,178
X-RAY SHIELDING COMPOUND
Martin Marasco, Parlin, N. J., and Edwin Atkins Merritt, Chevy Chase, Md., assignors to Du Pont Film Mfg. Corp., New York, N. Y., a corporation of Delaware
No Drawing. Application January 19, 1937, Serial No. 121,372
8 Claims. (Cl. 250—108)

1. An X-ray shielding material comprising a composition of matter, plastic at room temperatures, composed principally of lead powder, and which includes polyvinyl acetate, a plasticizer, and a tempering agent for counteracting the adhesive qualities of said composition.

2,162,179
OIL WELL COMPLETION EQUIPMENT
Robert A. Mueller, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas
Application September 29, 1937, Serial No. 166,438
13 Claims. (Cl. 166—20)

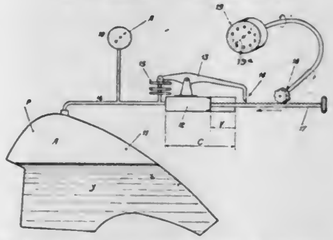
1. In apparatus for completing a well in formation having high pressure, a casing, a casing head, flow tubing in said casing, control equipment on said casing head including a blowout preventer providing a seal between said casing and said tubing, said casing head having a side outlet

below said control equipment and a valve controlling said outlet, a removable spear in sealing engagement with the inner wall of said tubing in a portion thereof below the casing head, said spear having releasable means for rigidly maintaining it against downward movement in said tubing and against upward movement therein under well pressure, and being unconnected with the surface of the well except through the walls



of the tubing, means connected with the upper end of said tubing for forcing washing fluid downwardly therethrough to wash the well, and means included in said spear adapted for passage of said downwardly flowing washing fluid therethrough while preventing upward flow of fluid under well pressure therethrough, the washing fluid discharging through said side outlet from the casing.

2,162,180
MEANS FOR MEASURING A QUANTITY OF LIQUID IN A TANK
Antoine Isidore Odier, Paris, France
Application June 11, 1937, Serial No. 147,756
In France June 19, 1936
8 Claims. (Cl. 73—290)



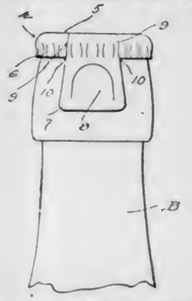
1. In a device for measuring the quantity of liquid in a container, means temporarily isolating a body of fluid above the level of said liquid whereby the volume of said fluid varies inversely as said level varies, means for changing the quantity of said fluid to produce a desired pressure in said container, means for indicating the variation in said quantity, pressure responsive means responsive to the pressure in said container, means actuated by said pressure responsive means for stopping said quantity changing means at said desired pressure whereby said quantity change may be ascertained, and means responsive to the atmospheric pressure for varying the response of said pressure responsive means.

2,162,181
SUPPORTING STRUT
Percy A. Skinner, Ionia, Mich.
Application June 16, 1938, Serial No. 214,126
5 Claims. (Cl. 248—354)



1. In a lengthwise adjustable supporting strut for trailer bodies, a head structure adapted to be fixed to the trailer body, a foot structure for mounting on the ground, a supporting post, a slidable hinged connection between the upper terminal portion of the post and said head structure, a tubular standard slidably mounted on, lengthwise adjustable with respect to and projecting from the lower end of the post, a hand grip coupled with and spaced from the upper end of the standard, said post passing through said hand grip, a spring controlled clutching lever coacting with the post for latching the standard in extended relation with respect to the post, said lever being arranged between the hand grip and the upper end of the standard, means at the upper end of the standard providing a fulcrum for one end of said lever, and a slidable hinge connection between the lower terminal portion of the standard and said foot structure.

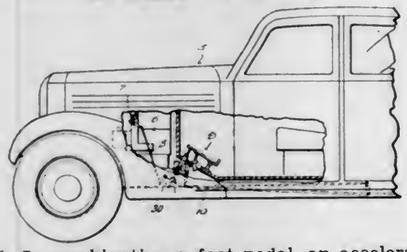
2,162,182
BOTTLE CAP OR CLOSURE
Willard B. Smith, Vancouver, British Columbia, Canada
Application September 13, 1938, Serial No. 229,735
1 Claim. (Cl. 215—46)



A bottle cap comprising a crown portion, an annular flange depending from said crown and adapted to fit over the neck of a bottle, an integral depending tab disposed at right angles to said flange, said tab being centrally punched to define an opening to afford gripping means,

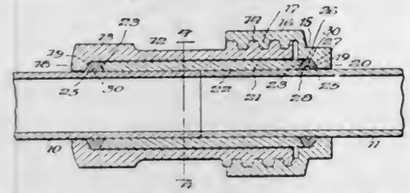
and an auxiliary tongue punched from said tab for manually operating the tab, said flange having a series of vertical indentations disposed on the inner and outer sides thereof, and adjacent the edges of said tab to afford means for severing the respective ends of said flange for removing said cap from said bottle.

2,162,183
FOOT CONTROL
William J. Smith, Delaware City, Del.
Application November 12, 1936, Serial No. 110,544
12 Claims. (Cl. 192—3)



1. In combination a foot pedal, an accelerator control, a brake control, means rockably supporting the pedal and connections between the pedal and the said controls, and means for urging the pedal in a direction operating the said brake control, said spring means consisting of a pair of springs exerting force against the pedal and means for relieving the pedal of one of the springs when the pedal is actuated in a direction to operate the accelerator control.

2,162,184
PIPE COUPLING
John E. Snyder, Lansing, Mich.
Application January 14, 1938, Serial No. 185,075
1 Claim. (Cl. 285—196)

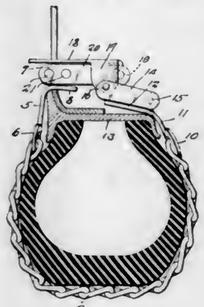


A pipe coupling including an unyieldable noncorrosive sleeve adapted to receive adjacent terminals of separate pipe sections therein, yieldable gaskets surrounding the pipe sections and located adjacent the terminals of the sleeve, a clamping device surrounding the sleeve and including separate threadedly connected sections having gasket engaging members whereby the movement of one section relative to the other causes the gasket engaging members to clamp the gaskets against the sleeve terminals and the pipe sections to so seal the device that fluid from within the pipe sections is sealed against escape beyond the inner confines of the sleeve to prevent corrosive fluid from within the pipe sections reaching the components of the clamping device.

2,162,185
ART OF PREPARING AN EARTHEN FOUNDATION
James A. Sourwine, Washington, D. C.
No Drawing. Application June 15, 1938, Serial No. 213,939
5 Claims. (Cl. 61—50)

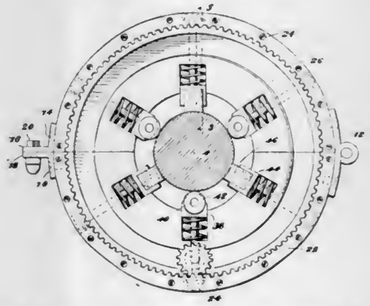
1. The method of preparing an earthen foundation, consisting of the placement within an earthen foundation, and as a part thereof, of a layer of soil or earthen material which has been mixed with a liquid other than water and having a freezing point lower than that of water.

2,162,186
TRACTION CHAIN FASTENER
Martin H. Sundem, Vancouver, Wash.
Application June 4, 1938, Serial No. 211,920
1 Claim. (Cl. 152—233)



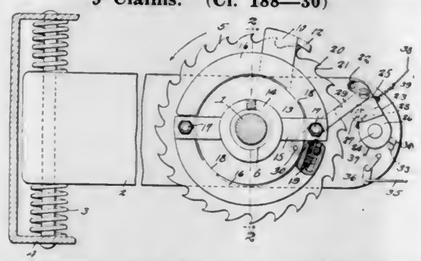
A fastener for fastening the ends of tire chains, comprising a hook member connected to one end of the chain, a plate secured to the opposite end of the chain, links pivotally connected with the plate, a lever pivotally connected with the links and having a hook formed at one end thereof, arms cooperating with the lever, spacers holding the arms in spaced relation with each other, one of said spacers adapted to be positioned over the hook of the hook member, said hook of the lever adapted to engage the spacer at the opposite end of the arms, and said lever adapted to draw the ends of the chain together, when it is moved downwardly to its locked position.

2,162,187
GRINDING OR HONING MACHINE
James H. Tharp, Abilene, Tex.
Application July 18, 1938, Serial No. 219,844
3 Claims. (Cl. 51—73)



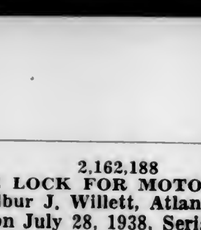
1. In a machine of the class described, a circular shaped support, a plurality of radially disposed, resiliently mounted, inwardly directed shafts therein, rollers and abrasive elements carried by the free ends of said shafts, a ring gear on one side of the circular support, a pinion gear in mesh therewith, and means for rotating said pinion gear to effect such rotation of said circular support.

2,162,188
REVERSE LOCK FOR MOTOR VEHICLES
Wilbur J. Willett, Atlanta, Ga.
Application July 28, 1938, Serial No. 221,845
9 Claims. (Cl. 188—30)



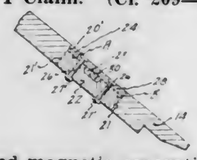
1. A reverse lock for motor vehicles including a ratchet wheel for attachment to a drive shaft, a pawl, a friction drum rotatable on the shaft, means operated by the drum when rotated in one direction, for moving the pawl into engagement with the ratchet wheel and, when rotated in the opposite direction, for disengaging the pawl from the wheel, and friction means for transmitting motion in either direction from the wheel to the drum, said means being releasable from the drum by centrifugal force during rotation in that direction in which disengagement of the pawl was effected.

2,162,189
BRACE
Paul C. Williams, Dallas, Tex.
Application January 30, 1936, Serial No. 61,566
5 Claims. (Cl. 128—78)



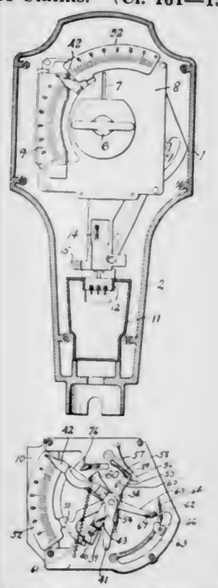
5. A brace adapted to be applied to the body of a patient including, a single rigid member extending across the back of the patient for exerting a pressure on the lower dorsal spine, a second rigid member connected to the first member for exerting a pressure on the sacrum, a flexible element engaging the abdomen, and means for tightening the members and element to apply a pressure at such predetermined points.

2,162,190
MAGNETIC SEPARATOR
Bronson C. Woodford, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a corporation of Texas
Application December 28, 1936, Serial No. 117,896
1 Claim. (Cl. 209—223)



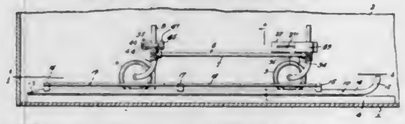
An inclined magnetic separating chute board, said chute board being of planular structure including two major surfaces, a main groove having a bottom wall formed in the upper surface of said chute board and running transversely of the axis of inclination, a sub-groove substantially centrally located in the bottom wall of said main groove and extending lengthwise thereof, both of said grooves extending substantially throughout the width of said board, a plurality of spaced elongated slots arranged transversely of said main groove extending entirely through the chute board from the bottom of said main groove to the bottom of said chute board, a plurality of narrow blocks of high flux density permanent magnetic alloy material arranged in said slots with their lower portions within the plane of the lower surface of said chute board, each of the blocks having upwardly extending projecting portions at their ends flush with the bottom of the main groove, a pair of spaced long pole bars extending throughout the length of the main groove and having their upper surfaces in the plane of the upper surface of the chute board and their lower surfaces contacting the said upwardly projecting portions, a long combined aligner and spacer of non-magnetic material arranged between the pole bars and in said sub-groove and extending throughout the length thereof, said spacer having its upper surface in the upper plane of the chute board and its lower surface extending below the bottom of the main groove, said bars contacting the sides of the spacer and operating to hold it in place, means for securing the bars to the chute board and means for securing the blocks to the bars, whereby a separator of planklike configuration results.

2,162,191
METER
William N. Woodruff and Charles A. Toce, Houston, Tex., and William Foy Herschede, Cincinnati, Ohio, assignors, by mesne assignments, to Vehicular Parking, Ltd., Washington, D. C., a corporation of Delaware
Application November 24, 1936, Serial No. 112,484
11 Claims. (Cl. 161—15)



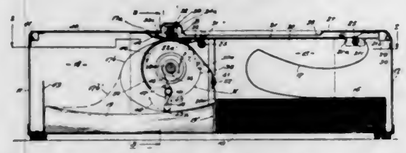
9. In a parking meter, in combination, means including timing mechanism having mechanical energy storage means for indicating the passage of time, means including a freely movable handle for setting said time-indicating means at an initial timing position and rewinding said timing mechanism, token-actuated means for controlling operation of said setting and rewinding means by said handle means, normally obscured signal means for showing an inoperative condition of the timing mechanism during its resetting and rewinding, and means operated by said handle means only during its engagement with the setting and rewinding means for exposing said signal means substantially throughout the resetting and rewinding of said time-indicating means, whereby the inoperative condition of the apparatus is readily perceived in the event the resetting and rewinding operation is arrested before completion.

2,162,192
EQUIPMENT FOR HEARSES
Ralph John Yoder, Fargo, N. Dak.
Application February 3, 1939, Serial No. 254,502
2 Claims. (Cl. 296—19)



1. The combination with a hearse, and a wheeled truck for transporting a corpse into the hearse, of a runway structure in said hearse comprising a pair of track members extending along opposite sides of the hearse, respectively, in parallel relation over the bottom of the latter, a pair of front and rear cross bars connecting the front and rear ends of said members together, respectively, said members having mounted thereon along the sides thereof rotatable guard rails for guiding the wheels of the truck along said members, and means to anchor said runway to said bottom in different set positions along said bottom.

2,162,193
MANIFOLDING REGISTER
William G. Borchers, Hoboken, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application March 5, 1937, Serial No. 129,216
19 Claims. (Cl. 282—16)



11. In a manifolding machine, a casing having a supply compartment, a storage compartment and a platen over which at least one issue strip and a record strip are led from a zigzag folded pack; means for advancing said strips form-lengths over the platen; means for guiding the record strip to enter the storage compartment for refolding into a zigzag folded pile with the folds thereof as in said pack; a striker; a rotary carrier on which the striker is pivotally mounted; and means for periodically rotating said carrier but always in the same direction thereby to cause the striker to deliver a refolding blow directed toward the top of the pile on each revolution of said carrier with such blow always delivered in the same direction.

2,162,194
ADHESIVE
Lewis Davis, Worcester, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts
No Drawing. Application December 3, 1936, Serial No. 114,038
3 Claims. (Cl. 134—23.7)

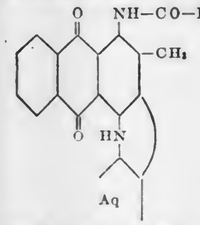
1. A water soluble adhesive composition comprising a mixture of animal glue, "Hydroresin" and "Rezinel", the "Hydroresin" being the predominating constituent, and the proportion of glue being less than that of the "Hydroresin", the "Rezinel" being present in a substantial percentage.

2,162,195
PROCESS FOR REFINING HYDROCARBON OILS
Bernard Sutro Greensfelder and Monroe Edward Spaght, Martinez, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 6, 1935, Serial No. 5,247
7 Claims. (Cl. 196—13)

1. A method of refining hydrocarbon lubricating oil stock containing constituents of relatively high viscosity index and constituents of relatively low viscosity index, which comprises contacting said stock with a gas containing free oxygen at a temperature from about 120° F. to about 500° F. for a time sufficient to convert a substantial portion of said constituents of relatively low viscosity index into oxidation products preferentially soluble in a liquid solvent from the group consisting of hydroxy-aromatic compounds, nitrocyclic compounds, aromatic aldehydes, amino-aromatic compounds, and nitro-aromatic compounds, and insufficient substantially to convert said constituents of relatively high viscosity index into oxidation products, whereby the materials resulting from the said oxidation step which are least soluble in said solvent have a higher viscosity index than the viscosity index of the stock, contacting the material from the aforementioned oxidation step with a sufficient quantity of the said solvent to form two liquid phases, separating the resulting phases, and removing the solvent from the oil phase.

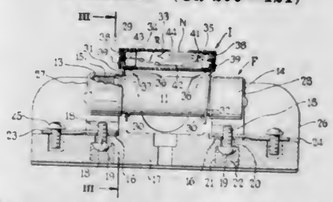
2,162,196
DYESTUFFS OF THE ANTHRIMIDE-CARBAZOLE SERIES
Joseph Deinet, Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 19, 1936, Serial No. 106,371
5 Claims. (Cl. 260—316)

1. New vat dyestuffs of the following formula



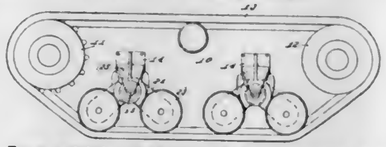
wherein R stands for an aryl radical and Aq stands for an anthraquinone radical which contains an aroylamino group in one of the positions 4 and 5.

2,162,197
INDICATOR
Lyman E. Dodge, Morris Township, Morris County, N. J., assignor to Frank C. La Mar, Tucson, Ariz.
Application June 27, 1936, Serial No. 87,642
4 Claims. (Cl. 200—121)



1. In an integrity indicator device for a cartridge fuse, an elongated body, an indicating means carried by said body, and a pair of ring-shaped eye clips or contact terminals connected electrically with said indicating means and extending from said body into position to fit respectively over the barrel of the fuse cartridge, having central openings of less diameter than that of the metal caps on said cartridge barrel, said ring-shaped eye clips being disposed at a distance from each other sufficiently in excess of the distance between said metal caps to cause said ring-shaped eye clips to be canted into engagement with said barrel when said end caps are screwed home upon the cartridge barrel.

2,162,198
CONTINUOUS-TRACK TRACTOR
Arthur W. Herrington, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application March 25, 1937, Serial No. 132,900
2 Claims. (Cl. 305—9)



1. In a vehicle of the track-laying type, a load-supporting idler group, comprising a pair of coaxial swinging idler-carrying arms, each provided with a cup-shaped pivoting element, a connecting unit sleeved within said pair of cup-shaped elements and non-rotatively associated with each of said cup-shaped elements without substantial compression, said connecting unit comprising circumferentially yieldable rubber portions which are respectively non-rotatively anchored to said cups and to each other, and means limiting the relative movement of the two arms within the elastic and bonded limits of said rubber portions.

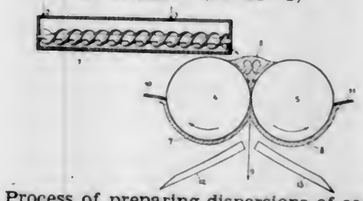
2,162,199
CENTRIFUGAL SEPARATOR
Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 15, 1937, Serial No. 174,631
7 Claims. (Cl. 233—22)

1. In a centrifugal separator, the combination comprising a centrifugal rotor having an open neck, a non-rotating dislodging tool projecting into the path of a subsided constituent within said rotor and a splash guard within the open neck of said rotor adjacent said dislodging tool, said splash guard including a head portion lying in a plane substantially at right angles to the



axis of the rotor and an annular skirt portion depending from the head and lying in close proximity to the neck of the rotor.

2,162,200
PROCESS OF PREPARING DISPERSIONS OF COAL AND OIL
Siegfried Kiesskalt, Hans Tampke, Karl Winnacker, and Ernst Weingaertner, Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application May 18, 1936, Serial No. 80,440
In Germany May 24, 1935
13 Claims. (Cl. 44—1)



1. Process of preparing dispersions of coal and oil which comprises subjecting a paste of coal and water with oil while continuously maintaining the plastic condition to a squeezing and shearing action for a sufficient time to replace the water by the oil and materially reduce the ash content of the coal and removing the ash and water which separate.

2,162,201
DYESTUFFS AND INTERMEDIATES OF THE PYRAZOLANTHRONE SERIES
Melvin A. Perkins, Milwaukee, and Clifford E. Carr, South Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 25, 1937, Serial No. 122,226
4 Claims. (Cl. 260—312)

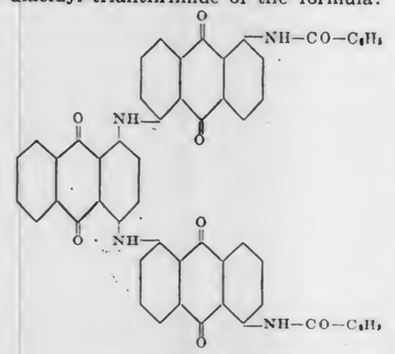
1. As new products, dimethoxy-N,N'-dialkyldipyrazolanthronyls, in which the methoxy groups are present in one of the pairs of positions, 6,6', and 8,8', and their halogenation products, which compounds contain no additional substituents.

2,162,202
PROCESS FOR THE REACTIVATION OF CLAY
George Hugo von Fuchs, Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 22, 1937, Serial No. 144,308
6 Claims. (Cl. 252—2)

2. In the process of reactivating spent decolorizing clay containing tarry adsorbed matter, the steps of treating the clay with a sufficient amount of water as the sole displacing agent for the tarry adsorbed matter, in the presence of an added aromatic hydrocarbon oil capable of dissolving tar which oil is substantially immiscible with water and resistant to decomposition under the conditions of the treatment, at a temperature above 300° F. but below that at which the clay itself is materially changed, under a pressure sufficient to maintain water in the liquid state and to produce two liquid layers, an upper layer consisting predominantly of said oil containing dissolved tar and unreactivated clay in suspension, and a lower water layer containing the reactivated clay, and separating the layers.

2,162,203
PREPARATION OF ANTHRAQUINONE VAT DYESTUFFS
Henry J. Weiland, Wilmington, Del., and Ralph N. Lulek, South Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 7, 1936, Serial No. 114,638
1 Claim. (Cl. 260—316)

The aluminum chloride ring-closed product of the diacidyl-trianthrimide of the formula:



2,162,204
DENTURE
George S. Weith, Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 11, 1937, Serial No. 130,315
2 Claims. (Cl. 32—2)

2. Method of protecting a synthetic resin denture from the effects of moisture during treatment thereof in the presence of moisture which comprises coating the denture with a primary protecting material which is relatively absorbent of moisture, coating the primary protecting material with a secondary protecting material which is substantially impervious to moisture and subjecting the coated denture to heat in the presence of moisture to prepare the denture.

2,162,205
COMPOUND OF THE PYRAZOLANTHRONE SERIES
Earl E. Beard, South Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1936, Serial No. 65,421
1 Claim. (Cl. 260—312)

As a new compound, 1,9-pyrazolanthrone-6-aldehyde.

2,162,206
COMPOUNDS OF THE PYRAZOLANTHRONE SERIES
Earl E. Beard, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application February 24, 1936, Serial No. 65,421. Divided and this application November 16, 1938, Serial No. 240,647
3 Claims. (Cl. 260—312)

1. A dipyrazolanthrone-6,6'-dialdehyde.

2,162,207
LUBRICATING OIL
Robert C. Moran, Wenonah, and William H. James, Paulsboro, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 5, 1937, Serial No. 146,595
1 Claim. (Cl. 87—9)

A method of lubricating bearing surfaces which comprises maintaining between the bearing surfaces, one of which contains a characterizing proportion of cadmium, silver, nickel, copper, or lead, a film of lubricating oil which initially produces an effective lubricating action, but would normally tend to corrode the adjacent surface, and maintaining the effectiveness of the lubricating oil by incorporating therein dianiline disulphide in a small but sufficient proportion to substantially retard the corrosion.

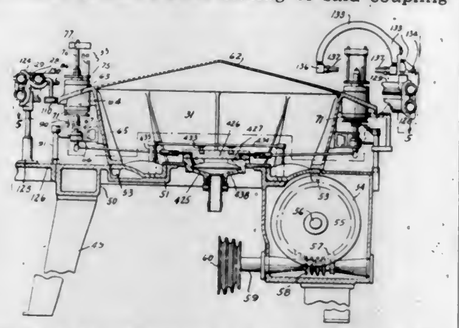
2,162,208
MINERAL OIL COMPOSITION
Robert C. Moran, Wenonah, William H. James, Paulsboro, and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 5, 1938, Serial No. 194,076
4 Claims. (Cl. 87—9)

1. A mineral oil composition of the type adapted for use in turbines and transformers comprising a moderately refined mineral oil potentially susceptible to the formation of sludge under the conditions of use normally encountered in turbines and transformers and a minor proportion of aniline disulfide, sufficient to resist the formation of said sludge under said conditions of use.

2,162,209
LAMP SEALING-IN AND EXHAUSTING MACHINE
Donald G. Trutner, North Arlington, N. J., assignor to Alfred Hofmann & Company, West New York, N. J., a corporation of New Jersey
Application May 17, 1937, Serial No. 143,034
55 Claims. (Cl. 176—2)

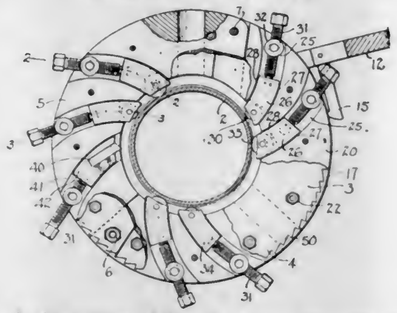
6. An automatic sealing-in and exhausting machine for electric lamps, comprising a conveyor carrying a series of heads and having means to advance it to cause each head to travel around a predetermined circuit, each head having a rotatable support for the flange of the lamp stem, formed with axial aperture loosely receiving the exhaust tube, and a rotatable holder for the lamp bulb, adapted to position the bulb with its depending skirt concentrically surrounding the stem flange, said holder and support having relative axial motion as by lowering the support, and for each head an exhaust passage, and a normally open coupling for connecting the stem ex-

haust tube to such exhaust passage; in combination with mechanism to rotate cooperatively the bulb holder and stem support of each head during a first period while the coupling remains open and while flames are directed toward the rotating lamp parts thereby to seal-in the lamp, leaving the detached skirt cullet surrounding said support, mechanism to close the coupling of each head after the period of head rotation thereby to grip the exhaust tube and connect the sealed-in lamp with the exhaust passage, exhausting connections operative after closing of said coupling



during a second period of head travel for exhausting each lamp or gas-filling it via said exhaust passage, means for causing relative axial lowering of the stem support to expose the exhaust tube for tipping-off, means for thereafter tipping-off each exhausted or filled lamp by a flame directed upon its exhaust tube, leaving the tube cullet held in said coupling, means for thereafter outfeeding the lamp from the head, and timed cullet extracting means operating thereafter, comprising a device to reach into the head, and engage one or both cullets, lift the same, retract laterally and discharge.

2,162,210
PIPE CUTTER
Henry Ditts Alston, Livingston, Tex.
Application December 28, 1936, Serial No. 117,772
6 Claims. (Cl. 30—101)



1. A pipe cutter of the character described comprising a frame, means to clamp said frame about the pipe to be cut, a plurality of uniformly circumferentially spaced cutters carried thereby, a plurality of uniformly circumferentially spaced roller guide members alternated between said cutters, a block supporting each cutter and each guide, a curved slot in said frame for each block, and an adjustment screw pivotally supported in each slot and connected to each block so that said cutters and guide members may be uniformly adjusted so as to maintain said frame concentrically on the pipe to negotiate a concentric cutting of the pipe.

2,162,211
ORGANIC MERCURY COMPOUND
Carl N. Andersen, Wellesley Hills, Mass., assignor to Lever Brothers Company, a corporation of Maine
No Drawing. Application December 23, 1937, Serial No. 181,325
11 Claims. (Cl. 260—434)

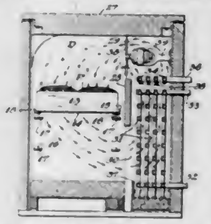
1. An organic mercury compound having the general formula $(RHg)_x.R_1$, in which R represents an aromatic structure to a carbon atom of which the mercury is directly attached and in which none of the carbon atoms has direct linkage with any element other than hydrogen, carbon and mercury; in which R_1 represents a sulfonamido substituted aromatic carboxylic acid radical that is linked to the RHg group through replacement of acidic hydrogen; and in which x represents the number of RHg groups in the compound and is an integer of at least one and not more than the number of carboxyl groups in the radical R_1.

2,162,212
BLIND-STITCHING PRESSER-FOOT FOR ZIG-ZAG SEWING MACHINES
Paul Boguhn, Berlin, and Richard Bochmann, Wittenberge, Potsdam, Germany, assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 23, 1937, Serial No. 132,458
In Germany September 19, 1936
4 Claims. (Cl. 112—151)



1. The combination with a sewing machine presser-foot having spaced toe portions one of which is formed in its upper face with a slideway, of a bracket adjustable in said slideway transversely of said toe portions, and a vertically yieldable work-guiding member pivoted at its forward end to said bracket with freedom to rise and fall in the space between said toe portions.

2,162,213
PROCESS OF FREEZING FOOD PRODUCTS
Chester J. Conn, Smithtown Branch, N. Y.
Application March 18, 1937, Serial No. 131,552
4 Claims. (Cl. 99—192)

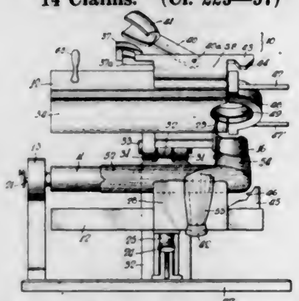


1. A method of treating frozen food products, comprising treating said products successively with warm, edible liquid and an air blast above freezing to defrost the surface of the same, quick freezing the defrosted surface, and thereafter glazing the same.

2,162,214
TREATMENT OF FOOD PRODUCTS
Chester J. Conn, Smithtown Branch, N. Y.
No Drawing. Application March 18, 1937, Serial No. 131,553
5 Claims. (Cl. 99—192)

1. A method of treating food products prior to quick freezing, comprising chilling the same by contact with a liquid, and subjecting the chilled product to a blast of air at freezing temperatures to disperse and evaporate substantially all the liquid on the surface of the products and to form minute crystals in the surface pores, thereby to provide a substantially impervious shell formation.

2,162,215
LAUNDRY IRONING AND PRESSING MACHINE
August Dahler, Bronx, N. Y., assignor of one-half to Philip Band, New York, N. Y.
Application July 27, 1937, Serial No. 155,855
14 Claims. (Cl. 223—57)

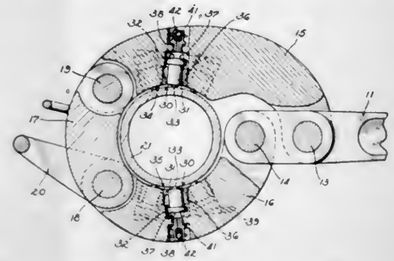


1. A laundry ironing and pressing machine, comprising a center part, adapted to have a shirt mounted thereon, said center part being made with a tubular opening therethrough and having one end thereof made with a reduced portion in its upper surface, a standard forming part of a frame-work, and a hollow shank connecting said center part to the standard, a vertically movable cone-shaped member arranged in the reduced portion at one end of the center part and adapted to have the collar of a shirt mounted thereon, means arranged through the hollow shank and tubular opening in the center part, whereby to actuate the cone-shaped member; a top part capable of descending upon and closing over the center part, said top part having means movably attached upon each side thereof, said means comprising a member formed with double walls and having the outer side of the outer wall thereof slightly rounded, a bottom part, a side piece integrally formed upon each side of the latter, said side piece being curved to correspond with the aforesaid outer wall, the bottom part being adapted to cooperate with the center part, and the side pieces of said bottom part being made to cooperate with the aforesaid outer walls of the means attached to the movable top part, when the latter is lowered upon the center part, substantially as shown and described.

2,162,216
PIPE TONGS
Ford W. Harris, Los Angeles, Calif., assignor to Patco, Inc., Los Angeles, Calif., a corporation of California
Application November 26, 1938, Serial No. 242,498
2 Claims. (Cl. 81—186)

1. In a pipe tongs or the like having members

adapted to surround a pipe or other cylindrical metal object to be gripped, the combination of: a plurality of calks having sharp points; means for so mounting said calks in said members that they are free to move radially with relation to said

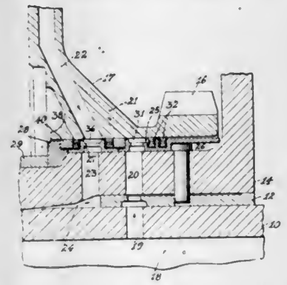


cylindrical metal object in said members; means for equalizing the pressure on two or more of said calks so that they are pressed against the object with equal pressure; and means for constricting said members with sufficient force to drive said points into the substance of said object.

2,162,217
METHOD FOR THE PRODUCTION OF YEAST
Johann Hilbers, Oldenburg-Etzhorn, Germany
No Drawing. Application January 14, 1937, Serial No. 120,512. In Germany January 7, 1936
5 Claims. (Cl. 195—95)

5. A process for manufacturing yeast by propagation with aeration, which consists in suspending seed yeast in an aqueous liquid of weak acidity, subjecting the weakly acid aqueous liquid to powerful aeration and adding continuously molasses and other yeast nutrients including nitrogen and phosphorus in sufficient quantities to produce a wort of high concentration, stopping the addition of the molasses and also of the other yeast nutrients including the nitrogen and phosphorus when a sufficient amount thereof has been added to produce the predetermined amount of yeast, neutralizing the concentrated wort exclusively by continuing the initial powerful aeration, and further aerating the resulting neutralized wort until perfect maturation of the yeast is obtained.

2,162,218
OIL SEAL
Henry C. Hill, Paterson, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application July 8, 1937, Serial No. 152,555
4 Claims. (Cl. 285—1)



1. In a shaft and cylinder assembly having ra-

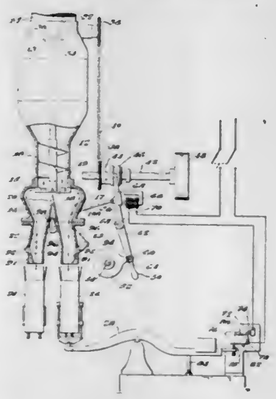
dial drillings therein adapted for fluid transfer therebetween, a sleeve between the shaft and cylinder fixed to the shaft having a radially drilled annular portion for fluid transfer between said drillings, annular grooves in the sleeve at each end of said annular portion, split spring rings seated in said grooves and non-rotatably bearing on the cylinder, said rings being axially slidable in said cylinder under the influence of fluid pressure in said annular portion to abut the groove sides for relatively rotatable sealing contact therewith, said rings having drillings connecting the end faces thereof for transferring fluid from the non-sealing faces for lubrication of the latter.

2,162,219

PACKAGING AND WEIGHING MACHINE

Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application July 29, 1937, Serial No. 156,263
7 Claims. (Cl. 249—55)



1. In a packaging machine, in combination, a hopper, a driven material feeding member within the hopper, means for sub-dividing the material being fed by said driven feeding member into a plurality of substantially uniform streams, a weighing device for weighing the material in one stream, means controlled by the weighing device for terminating the flow of said plurality of streams to form a plurality of loads when the weighed load reaches a predetermined amount and connections between the weighing device and said driven feeding member for interrupting the operation of the feed member when the weighing device makes its weight whereby to produce one weighed load and at least one additional and unweighed load of approximately the weight of the weighed load.

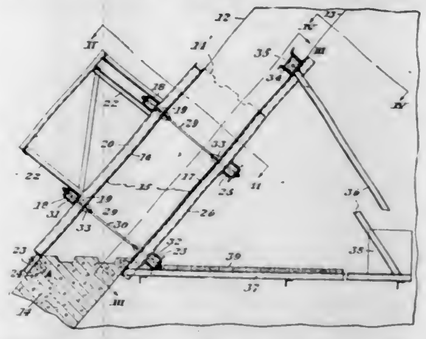
2,162,220

MOVABLE FORM FOR DAMS OR THE LIKE

John D. Jessen, O'Hara Township, Allegheny County, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a corporation of New Jersey

Application October 22, 1938, Serial No. 236,503
7 Claims. (Cl. 25—131)

1. A form for the casting of a slab extending between spaced buttresses and resting on inclined faces thereof comprising a panel adapted to extend between said buttresses, a beam extending between said buttresses adjacent the upper edge of the panel, said panel being secured to the beam, and a counterbalance adapted to hold said panel



substantially in its normal inclined position when suspended from said beam.

2,162,221

TREATMENT OF COAL

Leo Kasehagen and Homer H. Lowry, Pittsburgh, Pa., assignors to Carnegie Institute of Technology, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 30, 1937, Serial No. 133,802
2 Claims. (Cl. 44—1)

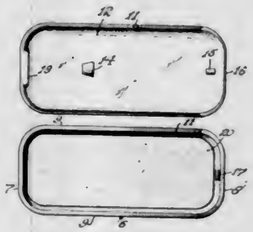
1. A treatment for reducing the oxygen content of coal, which consists of crushing the coal and heating the crushed coal with an aqueous solution of an alkali metal hydroxide ranging from about 3.8% to about 60% under pressure and at a temperature between 300° C. and 375° C. for a period from one to five hours.

2,162,222

SPECTACLE CASE

Saul L. Lachter, Maplewood, N. J.

Application July 20, 1938, Serial No. 220,163
1 Claim. (Cl. 206—5)



A spectacle case comprising a body member of substantially rectangular shape having side walls provided with grooves adjacent the upper edges thereof, a cover member having flanges slidable in said grooves, a stop on the underside of the cover to limit sliding movement of the cover on the body member, and a projection on the underside of the cover adapted to engage an end wall of the body member to hold the cover in a closed position, one end of the cover having a portion cut-away to prevent engagement of the cover with parts of spectacles which may be in the case, said cover having a pair of spaced protuberances on the upper side thereof to facilitate moving the cover in two directions.

2,162,223

FOUNTAIN PEN BARREL

Gabriel Larsen, Springfield, N. J., assignor to L. E. Waterman Company, New York, N. Y., a corporation of New York

Application March 31, 1937, Serial No. 133,935
5 Claims. (Cl. 120—42)



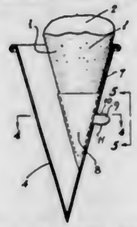
1. A fountain pen barrel divided lengthwise thereof into a reservoir part and an operating part, the barrel walls of said parts being of substantially the same thickness, the wall of the operating part being relatively opaque and having a distinctive design incorporated therein, the wall of the reservoir part being formed of a plurality of relatively translucent sheets secured together and one of said sheets having incorporated therein the same general design as in the wall of the operating part but to a less extent, thus maintaining the translucency of the reservoir wall while creating the same underlying design throughout the walls of both parts.

2,162,224

RECEPTACLE

Algeo Legge, Los Angeles, Calif.

Application January 19, 1938, Serial No. 185,752
4 Claims. (Cl. 229—1.5)



1. An article of the class described comprising, in combination, a drippage receptacle, a supporting receptacle within said drippage receptacle, said supporting receptacle being adapted to hold an ice cream cone, and means whereby said supporting receptacle together with said ice cream cone can be manually elevated relatively to said drippage receptacle.

2,162,225

VARNISH

Jean R. L. Martin, New York, N. Y.

No Drawing. Application April 16, 1937, Serial No. 137,213
1 Claim. (Cl. 134—79)

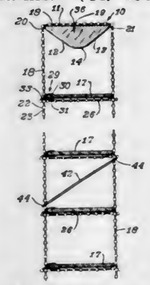
A varnish for the preservation of oil paintings and the like comprising ethyl cellulose, substantially 60%, a drying oil, substantially 20%, copal gum, substantially 7.5%, and a plasticizer, substantially 7.5%.

2,162,226

SHADE

Ward E. McKinney, Los Angeles, Calif.

Application November 19, 1938, Serial No. 241,367
6 Claims. (Cl. 156—17)



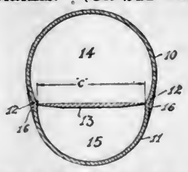
1. In a device of the character described, a pivot bar, a pair of vertical chains secured to the pivot bar to hang from the sides of said bar, a plurality of transverse chains, each secured to said vertical chains respectively, at points thereon equi-distant from said pivot bar and spaced apart with respect to each other, a slat slidably supported on each transverse chain, and a tilting bar between a pair of said slats having one end thereof engaging one of said vertical chains adjacent the next above slat and the other end of said bar engaging the other vertical chain adjacent the slat therebelow.

2,162,227

PRESSURE FUSELAGE

George A. Page, Jr., Ferguson, Mo., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application January 13, 1938, Serial No. 184,741
3 Claims. (Cl. 244—119)



1. In a pressure fuselage, an upper arcuate member embracing an arc greater than 180°, a lower member struck on a smaller radius and of an arcuate extent to make the chord thereof substantially equal to the chord of the upper member, said members being joined at their edges to effect a superpositioning of their respective chords, and tie elements joining the respective edges of said members comprising tension elements reinforced against bending to provide a floor for a cabin defined between the floor and said upper arcuate member.

2,162,228

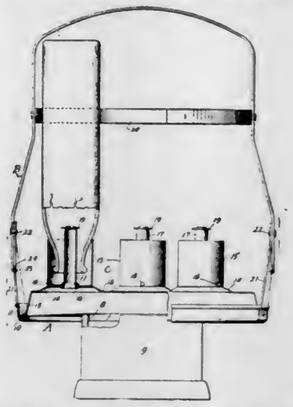
BOTTLE STERILIZER

Daniel N. Peirce, Bethayres, Pa., assignor to Fox Products Company, a corporation of Pennsylvania

Application May 10, 1937, Serial No. 141,718
7 Claims. (Cl. 21—79)

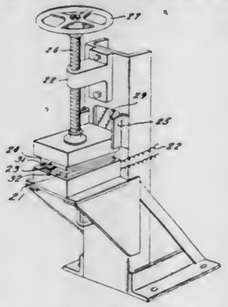
2. A bottle sterilizer adapted to be associated with a source of supply of steam comprising a dome, a base for supporting the dome, said base having an annular water-retaining trough re-

ceiving the edge portion of the dome, a tube projecting upwardly from the dome and adapted to deliver steam therefrom, a bottle support adapted to centralize a bottle with reference to the tube free of contact therewith with the tube projecting into the neck of the bottle, said support being in the form of a cup and being adapted to discharge condensate into said trough.



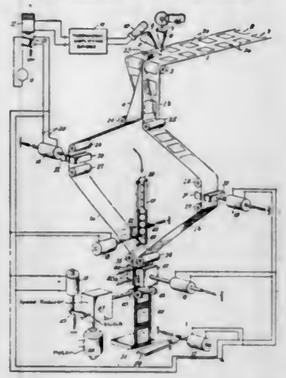
3. A bottle sterilizer adapted to be associated with a source of supply of steam, comprising a dome, a tube projecting upwardly from the dome and adapted to deliver steam therefrom, and a bottle support adapted to cooperate with the bottle externally thereof with freedom for limited wobbling movement, said tube having a washer at its upper end of larger diameter than the tube, and the bottle support and tube washer cooperating to provide against contact of the tube and bottle in the neck of the latter.

2,162,229
METHOD OF WELDING AND TEMPERING
Alfred M. Remington, Fitchburg, Mass., assignor to Simonds Saw and Steel Company, Fitchburg, Mass., a corporation of Massachusetts
Application July 5, 1935, Serial No. 30,048
6 Claims. (Cl. 219—10)



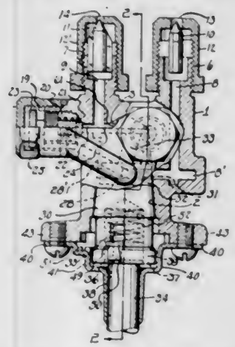
6. A method of welding steel belts or bands, comprising as steps, heating to the critical temperature, quenching, toughening and hardening, and thereafter welding the ends by heating to a melting temperature, bringing the same into fusion contact with each other, cooling to solidify the same and thereafter subjecting the welded joint and area adjacent thereto to compression while heating substantially uniformly to a tempering temperature for the steel.

2,162,230
ALIGNMENT CONTROLLED PACKAGING MACHINE
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application February 5, 1938, Serial No. 188,845
9 Claims. (Cl. 93—3)



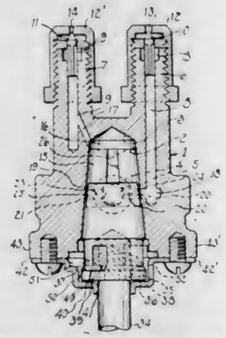
1. In a packaging machine, a commodity feeding line, means for releasing a commodity therefrom, means for feeding a primary web of packaging material, means for dividing said web to form sub-webs, means for feeding said sub-webs on opposite sides of said commodity feeding line, and means for joining said sub-webs around a released commodity to form a package therefrom.

2,162,231
GAS VALVE
Robert E. Schoenberger, Shaker Heights, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application April 20, 1938, Serial No. 203,208
5 Claims. (Cl. 251—104)



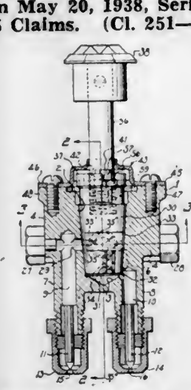
1. A gas range valve for a double burner comprising a casing with a plug receiving bore having an end wall, a solid plug having rotatable bearing in said bore and spaced from said end wall to form a gas chamber in the end of said bore, said casing having a first outlet passage leading from said gas chamber to one burner, said casing having a second outlet passage leading from the plug receiving bore to the other burner, said casing having a gas supply passage leading into the plug receiving bore, a pair of hollow extensions on said casing forming pockets, each of said pockets having a restricted passage leading into said gas chamber, said casing having separate by-pass passages leading from the plug receiving bore to the respective pockets, said plug having a cross by-pass passage and a cross slot opening into the bearing surface of said plug receiving bore and a substantially longitudinally disposed slot in the plug communicating at opposite ends with said transverse slot and said gas chamber such that in one rotary position of the plug a reduced volume of gas may flow through the gas supply passage into one of said pockets and thence through said gas chamber into said first outlet passage, the flow of gas to the second outlet passage being sealed by the plug, and such that in a second rotary position a full volume of gas may flow from the gas supply passage through said cross longitudinal slot to the gas chamber and thence to said first outlet passage, and such that in a third position of the plug a full volume of gas may flow from the gas supply passage through the cross slot direct to the second outlet passage and from the cross slot through the substantially longitudinally disposed slot to the gas chamber and thence to the first outlet passage, and such that in a fourth position a reduced volume of gas may flow from the gas supply passage through the cross by-pass passage into one of said pockets and thence to said first outlet passage, a portion of the gas delivered to said last mentioned pocket flowing into the gas chamber and thence through the slots in said plug to the second outlet passage and means for rotating the plug.

2,162,232
GAS VALVE
Robert E. Schoenberger, Shaker Heights, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application May 7, 1938, Serial No. 206,651
4 Claims. (Cl. 251—105)



1. A gas range valve for a double burner comprising a casing with a plug receiving bore having an end wall, a plug having rotatable bearing in said bore and spaced from said end wall to form a gas chamber in the end of said bore, a first outlet passage leading from said gas chamber to one burner and a second outlet passage leading from the bearing surface of said bore to the other burner, said casing having a gas supply passage opening into the bore in a plane with the inlet end of said second outlet passage, said plug having a cross slot opening into the bearing surface of said plug receiving bore in a plane with said gas supply passage, and a substantially longitudinally disposed slot in the plug communicating at opposite ends with said transverse slot and said gas chamber, and two restricted by-pass passages placing said transverse slot in communication with the bearing surface of said bore such that in one rotary position of the plug a reduced volume of gas may flow through one of said by-pass passages into the cross slot and thence through the longitudinally disposed slot into said gas chamber and first outlet passage, the flow of gas to the second outlet passage being sealed by the plug, and such that in a second position a full volume of gas may flow from the gas supply passage directly through said slots to said gas chamber and first outlet, and such that in a third position of the plug a full volume of gas may flow from the gas supply passage through the said cross slot direct to the second outlet passage and through both slots to the gas chamber and thence to the first outlet passage, and such that in a fourth position a reduced volume of gas may flow from the gas supply passage through the other of said by-passes to said cross slot direct to said second outlet passage, a portion of the gas delivered to the cross slot flowing into the gas chamber through said longitudinally disposed slot and thence to said first mentioned outlet passage and means for rotating said plug.

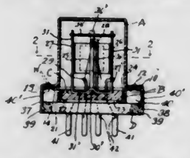
2,162,233
DOUBLE BURNER VALVE
Robert E. Schoenberger, Shaker Heights, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application May 20, 1938, Serial No. 209,122
5 Claims. (Cl. 251—105)



1. A gas range valve for a double burner comprising a casing with a plug receiving bore having an end wall, a plug having rotatable bearing in said bore and spaced from said end wall to form a gas chamber, said casing having a first outlet passage leading from said gas chamber to one burner, said casing having a second outlet passage leading from the plug receiving bore to the other burner, a main gas supply passage leading through the casing to said bore, a pair of hollow extensions on said casing forming pockets, each of said pockets having a restricted by-pass passage of substantially equal capacity, leading from said main gas supply passage, said casing having separate by-pass passages leading from the plug receiving bore to the respective pockets, said plug having a cross slot opening into the bearing surface of said plug receiving bore, a by-pass passage leading from said slot adjacent one end thereof and opening through the bearing surface of the plug, said by-pass in said plug having a substantially greater capacity than that of either of said restricted by-passes in said casing, a substantially longitudi-

nally disposed slot in the plug communicating at opposite ends with said transverse slot and said gas chamber, such that in one rotary position of the plug a reduced volume of gas may flow from the gas supply passage through one of said restricted by-passes into one of said pockets and thence through the said cross slot and longitudinal slot to and through the gas chamber to said first outlet passage, the flow of gas to the second outlet passage being sealed by the plug, and such that in a second rotary position a full volume of gas may flow directly from the gas supply through said slots to said gas chamber and to said first outlet passage, and such that in a third position of the plug a full volume of gas may flow from the gas supply through the cross slot to the second outlet passage and from the cross slot through the substantially longitudinally disposed slot to the gas chamber and thence to the first outlet passage, and such that in a fourth position a reduced volume of gas may flow from the gas supply passage through the cross slot by-pass passage in the plug to and through said cross slot to said second outlet passage, a portion of the gas delivered to said cross slot flowing through said longitudinal slot to said gas chamber and to said first outlet passage, and such that in a fifth position of the plug a still further reduced volume of gas may flow from the gas supply passage to one of said pockets and thence through the by-pass in the plug to said cross slot and thence to said second outlet, a portion of the gas delivered to said cross slot flowing into the gas chamber through the longitudinal slot and thence to said first outlet passage, and means for rotating the plug.

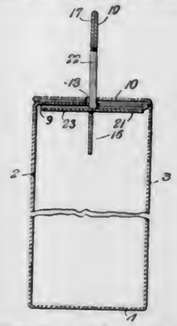
2,162,234
ELECTRONIC DEVICE
Adolph A. Thomas, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 14, 1937, Serial No. 142,545
11 Claims. (Cl. 250—27.5)



1. An electron tube comprising a metal shell and a metal base member, annular hollow beads on said shell and member arranged in interfitting contact, said shell and member being welded together across said interfitting beads, and electrodes in said shell.

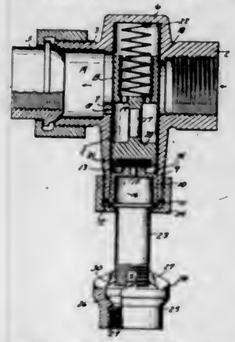
2,162,235
BOX
Marguerite E. Vaughn, Natick, Mass., assignor to Natick Box and Board Co., Natick, Mass., a corporation of Massachusetts
Application June 22, 1937, Serial No. 149,651
9 Claims. (Cl. 229—52)

1. A one-piece folding box comprising a bottom, side and end walls, and overlapping top flaps, said overlapping flaps having registering slots therein, and a handle device of stiff sheet material comprising an elongate anchorage element arranged so that its edge underlies the inner surface of the innermost top flap, and an abutment having a broad surface which engages the inner surface of said latter top flap, the handle device also including a portion which projects



outwardly through said registering slots and which is provided with a hand grip.

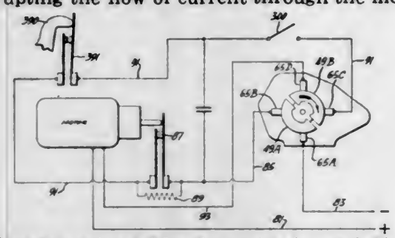
2,162,236
TRAP SEAL VALVE
David S. Williams, Portland, Oreg.
Application April 19, 1937, Serial No. 137,727
8 Claims. (Cl. 182—12)



1. A valve of the class described comprising a body-member that is adapted for connection to and be made a part of a water supply line, said body-member having an elongated chamber therein, a valve seat removably positioned within the lower portion of the chamber in said body, having an outlet port confined within the boundary of said seat and communicating with the chamber of said body-member, and a piston valve confined within the chamber of the body-member and normally positioned against said seat, but adapted for vertical reciprocation therein under the influence of the flow of water through said body-member.

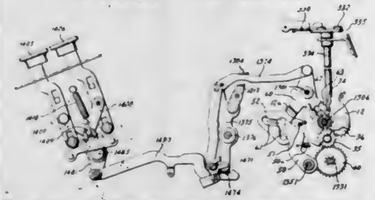
2,162,237
ELECTRICAL CONTROL DEVICE
Harold T. Avery, Oakland, Calif., assignor to Marchant Calculating Machine Company, a corporation of California
Application November 27, 1936, Serial No. 112,897
1 Claim. (Cl. 171—222)

A governing system for an electric motor, having power supply leads; comprising a make and break contact mechanism operable by the motor to control the speed thereof, means comprising a polarity reversing switch connected to one of said leads, to said contact mechanism, and connected to one side only of an electric current supply line so as to reverse the direction of the flow of current through said contact mechanism without interrupting the flow of current through the motor,



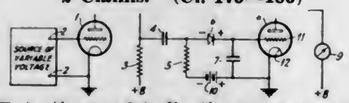
and means actuated by the motor for periodically effecting step by step operation of said switch.

2,162,238
CLUTCH AND POWER TRANSMISSION
Harold T. Avery, Oakland, and Howard M. Dustin, Berkeley, Calif., assignors to Marchant Calculating Machine Company, a corporation of California
Application October 4, 1938, Serial No. 233,254
11 Claims. (Cl. 192—3.5)



1. In a cyclic transmission, comprising a cyclic clutch with driving and driven elements, in combination with independent reversing mechanism; control means operable to concurrently engage said clutch and adjust the reversing mechanism, and a member controlled by said clutch for conjointly preventing disengagement of said clutch and for retaining said reversing mechanism in said adjusted position for the duration of a complete cycle of operation of said clutch.

2,162,239
ELECTRIC INDICATING DEVICE
Wilhelm Beuermann, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 10, 1937, Serial No. 130,007
In Germany March 23, 1936
2 Claims. (Cl. 175—183)



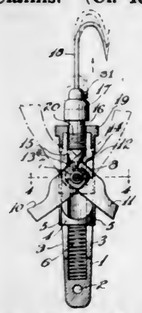
1. Detecting and indicating means comprising an electron discharge tube having a cathode, a control grid and an anode; a diode detector, a resistor and a steady source of potential connected in series between said control grid and cathode to provide a circuit conductive to direct current between said grid and cathode, said steady source of potential being poled in said circuit so as to maintain the grid normally negative with respect to the cathode whereby the grid to cathode impedance of the tube is made high, a condenser connected between the control electrode and cathode, an anode circuit for said tube including an indicating device, and means for impressing voltage oscillations which vary at a frequency below audibility across said resistor.

2,162,240
DENTAL FLOSS HOLDER
Fred J. Boldusoff, Bridgeport, Conn.
Application December 14, 1937, Serial No. 179,635
3 Claims. (Cl. 132—91)



1. A dental floss holder comprising a handle, a fork with prongs on the end of the handle, the ends of the prongs having slots with internal teeth for engaging a floss, and means to draw the ends of the slotted portions against the floss in the slots for clamping the latter.

2,162,241
FISHING DEVICE
John Paul Boyce, Newark, N. J., assignor to Henry Kratz, Newark, N. J.
Application April 22, 1938, Serial No. 203,517
5 Claims. (Cl. 43—89)

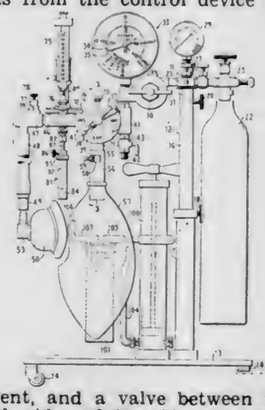


1. In a fishing device of the character described, a tubular casing having a pair of oppositely arranged guide slots in the walls thereof, a rider slidably mounted in said slots, a compression spring positioned in the casing and tending to normally urge the rider towards one end of the casing, a pair of tongs pivotally supported by the casing, said tongs having notches therein and bearing against said rider, a rod slidable in the casing and having a projection thereon, a compression spring encircling said rod and tending to normally move the projection into the notches in said tongs, and a fishing hook detachably secured to said rod.

2,162,242
RESUSCITATION APPARATUS
William Branower, New York, N. Y.
Application April 25, 1936, Serial No. 76,369
5 Claims. (Cl. 128—29)

1. Resuscitation apparatus for delivering measured and controlled volumes of therapeutic gases to a patient, including in combination a device for connection with a gas storage cylinder or other source of gas under pressure, a gas flow control device which receives the gas at high pressure and delivers it at a reduced pressure and at a rate of flow limited to a given volume

of gas per unit of time, said control device including means for changing its rate of delivery, a gauge having notations of the tidal volume for the lungs of patients according to age or size, said gauge including means for indicating the delivery rate of the control device with reference to the notations on the dial, a conduit through which gas from the control device is delivered



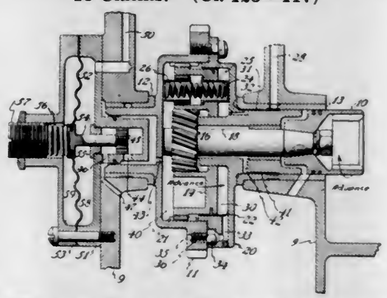
to a patient, and a valve between the control device and said conduit, said valve being effective in one position to establish communication between the control device and conduit so that gas flows to the patient, and effective in another position to shut off the gas supply to the patient and open the conduit to the atmosphere to permit the patient to exhale.

2,162,243

AUTOMATIC MAGNETO COUPLING

Kenneth A. Browne, Saddle River, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

Application September 7, 1935, Serial No. 39,619
13 Claims. (Cl. 123—117)



1. The combination with an engine subject to varying manifold pressure, of a drive coupling including means responsive to hydraulic pressure to rotationally advance said coupling, and means responsive to manifold pressure to regulate said hydraulic pressure.

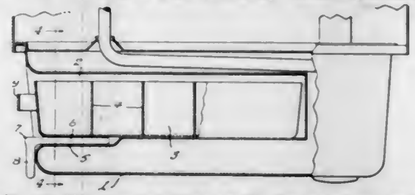
2,162,244

REFRIGERATOR TRAY LOOSENING MEANS

Lee S. Chadwick, Shaker Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio

Application March 12, 1935, Serial No. 10,678
1 Claim. (Cl. 62—108.5)

In combination, an open front freezing chamber of a refrigerating apparatus and a tray resting upon the bottom wall of said chamber, said bottom wall having an elongated substantially semi-cylindrical depression that opens outwardly through the open front of the chamber, and a member having a substantially semi-cylindrical



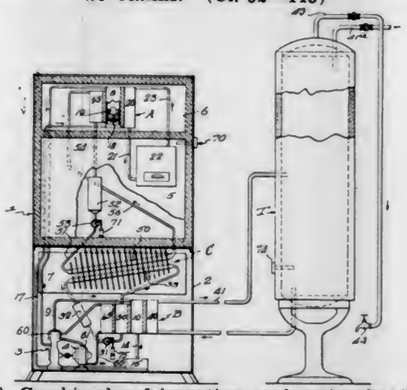
body portion occupying said depression and a weighted handle depending from its end beyond the open front of the chamber, said weighted handle serving to normally retain the member in position with the top face of its body portion in a substantially horizontal plane.

2,162,245

HEATING AND COOLING SYSTEM

Daniel F. Comstock, Lincoln, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island

Application October 23, 1937, Serial No. 170,633
26 Claims. (Cl. 62—115)



3. Combined refrigerating and water heating system comprising an evaporator, a compressor, an intermediate unit, a hot water storage tank, and connecting ducts provided with valve means capable of being set to cause fluid being drawn to the compressor to cool the evaporator and to permit the intermediate unit to cool the compressed fluid before it returns to the evaporator, said means also being capable of being set to permit fluid being drawn to the compressor to cool said unit and to permit the storage tank to absorb heat from the compressed fluid, said means also being capable of being set to permit fluid being drawn to the compressor to cool said evaporator, and to permit the storage tank to absorb heat from the compressed fluid before it returns to the evaporator.

2,162,246

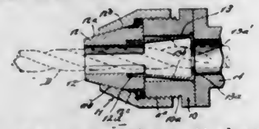
ADJUSTABLE DRILL CHUCK

George H. Cote, Bridgeport, Conn.

Application October 17, 1936, Serial No. 106,082
2 Claims. (Cl. 279—69)

2. In an adjustable drill chuck comprising a head having a reduced portion, said head having a large recess and a slot extending therefrom

to the free end of the head, the walls of the slot being parallel to the axis of the head, a pair of opposed jaws slidably mounted in the slots, each of said jaws having faces shaped to snugly engage the side and end walls of the slot and a camming surface at the outer end thereof, a cap threaded on the head to surround the jaws and having camming surfaces cooperable with the camming surfaces on the jaws to move them radially of the head, said jaws being provided with slots at their rear end; means to join to-



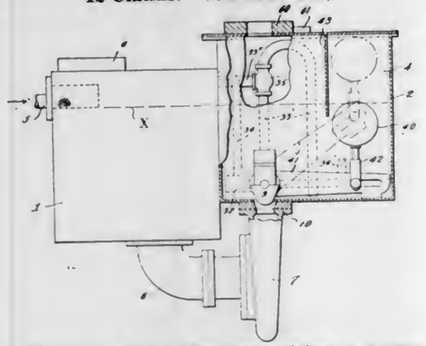
gether said jaws comprising a U-shaped element of flat spring material substantially the width of the jaws having the bow thereof mounted in the recess provided in the head, the bow having an aperture of sufficient size to receive the shank of the largest diameter of tool and the legs extending into the slots in the jaws for normally holding the jaws in expanded position, said aperture permitting the passage of the shanks of tools of lengths greater than the length of the chuck whereby tools having long shanks can be readily and properly positioned in the chuck.

2,162,247

PUMPING APPARATUS

James L. Dean, Andover, and Edward Schmidt, Methuen, Mass., assignors to Lawrence Pump and Engine Co., Lawrence, Mass., a corporation of Massachusetts

Application October 23, 1937, Serial No. 170,516
12 Claims. (Cl. 103—113)



1. Pumping apparatus comprising a pump, a priming tank, first and second storage tanks, connections from the priming tank to the pump, thence to the first and second storage tanks, a by-pass conduit for recirculating liquid from the outlet side of the pump back to the priming tank when the pump starts pumping, means for automatically venting the priming tank when the pump stops pumping, and means for automatically returning liquid from said second tank to said first tank and to the priming tank after the latter is vented by said venting means.

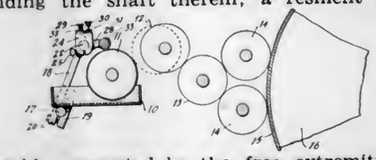
2,162,248

WATER CONTROL ROLLER FOR OFFSET PRESSES

Raymond C. Delaplane, Lakewood, Colo.

Application March 29, 1939, Serial No. 264,771
7 Claims. (Cl. 101—148)

1. A water control roller for a lithograph press comprising: a pair of box members; a shaft passing through both box members; a roller lever extending into a slot in each box member and surrounding the shaft therein; a resilient roller



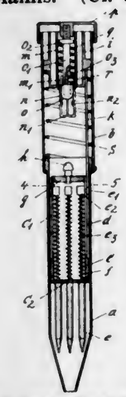
rotatably supported by the free extremities of said levers; means for securing said boxes at any desired point on said shaft; and means for varying the angle of projection of said levers from said boxes.

2,162,249

SELECTIVE MAGAZINE PENCIL

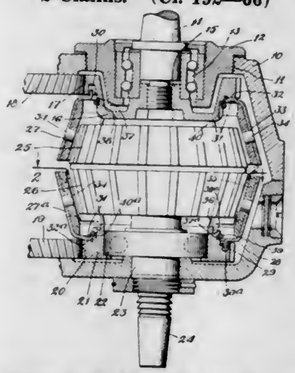
Wilhelm Dürrler, Pforzheim, Germany, assignor to Lütz & Weiss G. m. b. H., Silber & Metallwarenfabrik, Pforzheim, Germany, a limited-liability company

Application February 10, 1939, Serial No. 255,664
In Germany February 23, 1938
4 Claims. (Cl. 120—14)



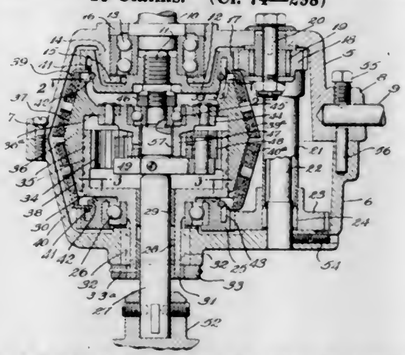
1. A selective magazine pencil, comprising in combination a rear case, a front case axially displaceable and rotatable relatively to said rear case, a sleeve fixed in and forming with said front case an annular space and having a plurality of longitudinal slots, a plurality of lead holders corresponding to the number of slots in said sleeve and accommodated in said front case in front of said sleeve, shanks one extending rearwardly from the rear end of each of said holders into said sleeve, end pieces one on the rear end of each of said shanks, knobs projecting laterally outwards from each of said end pieces through one of said slots into said annular space, and a feed rod fixed in said rear case and extending into said annular space, said rod adapted to be selectively brought into axial alignment with one of said knobs by relatively turning said cases and on the axial relative displacement of said cases to shift the selected lead holder into operative position through the intermediary of its end piece and shank, means for securely locking said cases in axially displaced position, and return springs one on each of said shanks and each adapted to be compressed on the advancement of its associated lead holder and to return same into its initial position with the associated shank end piece and knob when said feed rod is moved off the selected knob into the position between the knobs by the relative turning of said casing.

2,162,250
CLUTCH MECHANISM FOR TAPPING ATTACHMENTS
George W. Emrick, Brooklyn, N. Y.
Application January 19, 1937, Serial No. 121,280
2 Claims. (Cl. 192—66)



2. A friction drive shell for attachments of the class described, said shell comprising a conical body, the contracted end of which is provided with an inturned annular flange forming a mounting hub portion, said flange having circumferentially spaced key elements formed from the material thereof and projecting outwardly beyond the contracted end of said body, and the outer surface of said flange having circumferentially spaced and extending seats for alining said body upon a supporting surface.

2,162,251
TAPPING ATTACHMENT
George W. Emrick, Brooklyn, N. Y.
Application December 16, 1938, Serial No. 246,131
16 Claims. (Cl. 74—298)



1. A tapping attachment of the class described comprising a two-part casing, forward and reverse drive conical shells freely rotatable in the casing, a double-faced conical clutch disposed between and within said driving shells and movable toward and from the surfaces of said shells in the forward and reverse drives of the attachment, a drive spindle directly coupled with the forward drive shell, a driven shaft rotatably supported in the casing and freely rotatable in said clutch, means coupling the clutch with said driven shaft to move therewith in the movement of the shaft longitudinally of its axis, a cup-shaped member fixed to one casing part and disposed within said clutch and around which the clutch is rotatably mounted, and a planetary gearing between and disposed within said cup-shaped member and said clutch and operatively engaging the shaft to control the forward and reverse drive of the shaft through said forward and reverse drive conical shells.

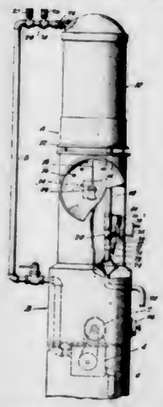
2,162,252
DENTAL CASTING ALLOY
Cornell Joel Grossman, Millburn, N. J.
No Drawing. Original application July 6, 1938, Serial No. 217,721. Divided and this application March 21, 1939, Serial No. 263,188
3 Claims. (Cl. 75—171)

1. A dental casting alloy adapted to be repeatedly re-melted and cast into substantially sound cast dentures, said alloy comprising chromium 5–30%, cobalt 10–50%, manganese and silicon each from a small but effective amount up to 1%, boron 1–10%, the balance of the alloy consisting of nickel.

2,162,253
DENTAL CASTING ALLOY
Cornell Joel Grossman, Millburn, N. J.
No Drawing. Application April 25, 1939, Serial No. 269,858
2 Claims. (Cl. 75—171)

1. A dental casting alloy adapted to be repeatedly re-melted and cast into substantially sound cast dentures, said alloy comprising chromium 5–30%, cobalt 10–50%, manganese 1 to 2%, boron 1–10%, the balance of the alloy consisting of nickel.

2,162,254
LIQUID MEASURING DEVICE
Charles S. Hazard, New York, N. Y., assignor to Neptune Meter Company, a corporation of New Jersey
Application March 4, 1936, Serial No. 67,037
7 Claims. (Cl. 73—2)

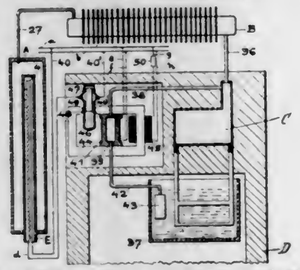


1. A liquid dispensing device, comprising a chamber for receiving liquid, means for weighing the liquid in the chamber, including an indicator, means controlled by movement of the weighing means for delivering liquid to the chamber at a high rate until a predetermined weight has been nearly reached and then continuing the delivery at a lower rate until the predetermined weight has been reached, and means for dispensing liquid from the chamber, said indicator registering zero when the predetermined weight of liquid is in the chamber, and moving away from zero in proportion to the weight of liquid dispensed.

2,162,255
SOAP
Robert F. Heald, Nutley, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application April 27, 1938, Serial No. 204,561
21 Claims. (Cl. 87—16)

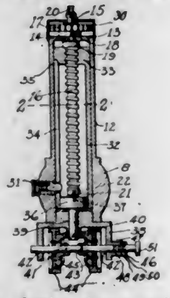
1. The method of stabilizing coloring materials when present in soap which comprises incorporating in the soap a small amount of a tin compound.

2,162,256
CONTROL ARRANGEMENT FOR REFRIGERATORS
Richard Herrmann and Theodor Skutta, Vienna, Austria
Application May 11, 1936, Serial No. 79,143
In Austria May 15, 1935
7 Claims. (Cl. 62—5)



1. In a refrigerating apparatus of the intermittent absorption class, in combination with a generator-absorber, a condenser, a receiver-evaporator, the required communications between them, means for heating the generator-absorber, an automatic control for switching on or off or for regulating the heating of the generator-absorber including a control vessel, a pipe connecting the vessel to a point of the receiver-evaporator which is just below the highest level of condensate in the receiver-evaporator, means for continuously heating the control vessel and means influenced by the temperature in the control vessel, for operating the control member.

2,162,257
PARKING DEVICE
Albert C. Hoecker, St. Louis, Mo.
Application February 8, 1932, Serial No. 591,651
4 Claims. (Cl. 180—1)



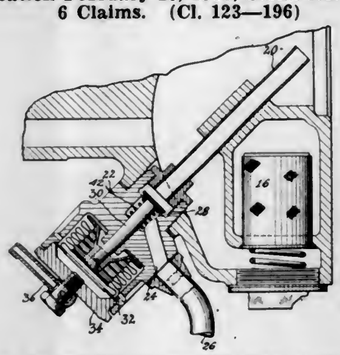
2. A parking device for a vehicle, comprising tubular telescoping members mounted on said vehicle, a motor mounted on one of said telescopic members, a wheel mounted on and geared to the inner member, a screw cooperable with said inner member and said motor for raising and lowering said inner member and for rotating said wheel when said inner member is in its lower position, and means for holding said wheel in a transverse plane to said vehicle.

2,162,258
PAPER BAG
Oscar H. Hultin, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application November 17, 1936, Serial No. 111,267
4 Claims. (Cl. 229—55)



1. As a new article of manufacture a metal foil lined paper bag, comprising an outer paper bag, a metal foil lining therefor, said lining being adhesively affixed to the paper bag, the portions of the lined bag forming both of the side seams being folded inwardly beyond the inner surfaces of the two sides of the bag and the adjacent contacting paper surfaces of said folded portions being adhesively secured together.

2,162,259
ENGINE OIL SCAVENGING DEVICE
William D. Kennedy, West Englewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application February 10, 1938, Serial No. 189,770
6 Claims. (Cl. 123—196)

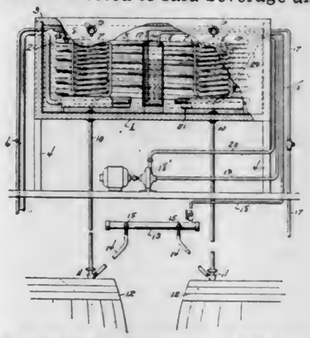


1. In an engine in combination, a crankcase subject to oil accumulation when the engine is not operating, an overflow drain member in said crankcase having an opening for relieving such accumulation, an induction duct subject to low pressure in engine operation, and means responsive to low duct pressure for closing said drain opening.

2,162,260
BEVERAGE COOLING DEVICE
Felix Kurpiewski, Trenton, N. J., assignor to The K and R Manufacturing Company, a corporation of New Jersey
Application February 2, 1938, Serial No. 188,380
4 Claims. (Cl. 62—128)

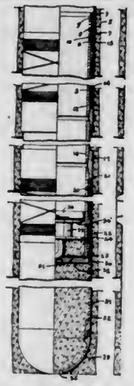
1. A beverage dispensing device comprising a container having therein a cooling liquid, chill-

ing coils of a refrigerating device immersed in said liquid, beverage dispensing coils immersed in said liquid, means including taps for connecting said dispensing coils to beverage receptacles, control faucets connected to said beverage dispensing



coils and arranged exteriorly of said container, means connecting said taps to an air pressure supply, a trough arranged in the container and immersed in the liquid with certain convolutions of the chilling coils therein, and means for agitating the liquid in the trough.

2,162,261
WELL CEMENTING
Leslie A. Layne, Houston, Tex.
Application March 3, 1936, Serial No. 66,780
6 Claims. (Cl. 166—21)



1. A method of sealing a pipe in a well bore which comprises the steps of pumping cement through the pipe ahead of a cement plug so that it discharges about the pipe and around a packer on the pipe, maintaining pressure on the cement plug to release the packer, and setting the packer by telescoping the pipe so as to compress the cement between the packer and plug and about the pipe.

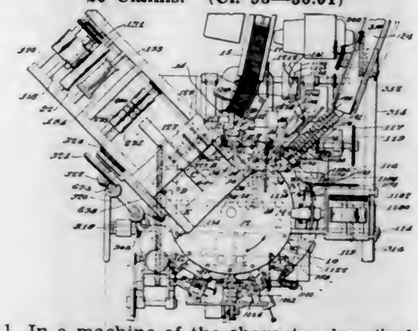
2,162,262
HAIR CURLER
Gad A. Lambert Linden, Brooklyn, N. Y.
Application December 28, 1937, Serial No. 182,081
11 Claims. (Cl. 132—33)

1. A device of the kind described, comprising in combination a tubular member having a slot therein extending inwardly from one end thereof; a sleeve slidably mounted on the tubular member and carrying a trough-like member extending therefrom within the tubular member in a direction towards the open end of the slot and adapted to receive a "bobby" pin; means for opening the legs of the "bobby" pin, as the sleeve is moved towards the open end of the slot, to receive hair that is wound around the



tubular member; and means for disengaging the "bobby" pin from said opening means when the sleeve reaches a predetermined position on the tubular member.

2,162,263
PACKAGING MACHINE
Arthur W. Lindholm, East Milton, and Gustaf Waldemar Anderson, North Quincy, Mass., assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application December 31, 1935, Serial No. 56,958
20 Claims. (Cl. 93—36.01)



1. In a machine of the character described, in combination, mechanism for folding a lining blank about a transverse axis and sealing together the contacting marginal edges of the sides of the blank to form projecting side seams of a liner, mechanism operative within the liner thus formed for creasing the bottom, side and end panels of the liner, mechanism for folding down the projecting side seams upon the side panels of the liner and forming projecting folded portions, and mechanism for folding the projecting folded portions of the bottom onto the liner thus formed.

2,162,264
PARALLEL STRAIGHT EDGE
Arthur F. Linsner, New York, N. Y., assignor to Defiance Sales Corporation, New York, N. Y., a corporation of New York
Application March 23, 1938, Serial No. 197,570
3 Claims. (Cl. 33—80)



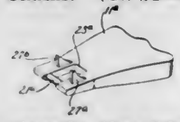
1. A parallel straight edge including an elongated relatively thin body portion having a relatively wide longitudinal channel in the lower face thereof and closed at its ends; a pulley carried by each end of the straight edge adjacent and above its upper face and said body portion having a pair of slots adjacent each pulley and establishing communication between the channel and the pulley through the upper face of the straight edge.

2,162,265
SEPARABLE ELECTRICAL CONNECTER
Leroy H. Loomis, Cleveland Heights, Ohio
Application April 3, 1935, Serial No. 14,534
5 Claims. (Cl. 173—343)



1. A detachable two-piece electrical connecter comprising, a receptacle part having a substantially flat face with a connecter blade receiving opening or openings of annular configuration extending throughout the major portion of a circle and concentric, internally disposed, radially spaced, annular contact members perpendicular to the face of the receptacle part, and a cooperating connecter part having substantially flat, spaced, parallel, connecter blades adapted for contact with such annular members, the blades of said cooperating connecter part being adapted for use with a conventional receptacle, the edges of said blades and the faces of said contact members being configurated for effecting detachable, interlocking, contact engagement between the connecter parts.

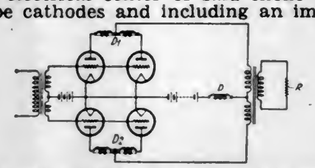
2,162,266
FINGER PIECE FOR THE SLIDERS OF SEPARABLE FASTENERS
Davis Marinsky, Bronx, N. Y., assignor to Whitehall Patents Corporation, New York, N. Y., a corporation of New York
Application April 18, 1936, Serial No. 75,084
2 Claims. (Cl. 24—205)



2. A finger piece for the slider of a separable fastener employing stringers with the slider movable longitudinally of the stringers for coupling and uncoupling the same, said finger piece comprising an elongated and relatively thin die cast body having at one end spaced parallel arms, integral means on said arms forming a pivotal support, each arm having upper and lower surfaces, a projecting member of each arm arranged longitudinally thereof and extending from one of said surfaces, each member having a perpendicular edge and an opposed curved edge, the perpendicular edge of said members being arranged adjacent the pin, said perpendicular edge of one member being spaced from the pin a greater distance than the corresponding edge of the other member, the elongated base of each member integrally joining the arm throughout the length of said base, and said base being substantially completely surrounded by said surface on each arm.

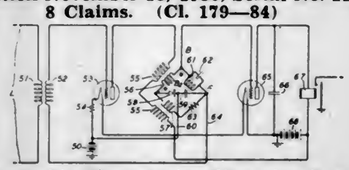
2,162,267
AMPLIFIER
Hans Mayer, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany
Application May 14, 1936, Serial No. 79,631
In Germany July 10, 1935
3 Claims. (Cl. 179—171)

1. An amplifier comprising two vacuum tubes, a differential choke coil having its ends connected to the plates of said tubes, and a circuit connecting the electrical center of said choke coil and said tube cathodes and including an impedance



having a value higher than the plate resistance of either of said tubes.

2,162,268
SIGNALING SYSTEM
John Meszar, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 18, 1936, Serial No. 111,396
8 Claims. (Cl. 179—84)



1. In combination, a signaling circuit, a signal relay, a thermionic tube controlling the operation of said relay, an impedance bridge, a thermionic amplifier connecting said bridge to said signaling circuit, said bridge being balanced to current of a particular frequency and unbalanced to current of other frequencies, a connection between the grid of the control tube and the bridge for rendering the tube effective to cause operation of the signal relay in response to current in the signaling circuit only when the current therein is of the particular frequency and no other, and a connection between the grid of the amplifier and the bridge effective to decrease the amplification of the current in the signaling circuit when this current includes frequencies other than said particular frequency.

2,162,269
SULPHURIC ACID DERIVATIVES OF ALKYL-PHENOLS
Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 7, 1936, Serial No. 109,676
18 Claims. (Cl. 260—512)

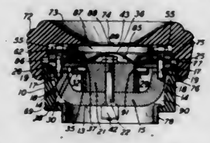
1. The process of preparing detergent aids which comprises reacting together acyclic polymers having a molecular weight above 100 and produced from gaseous olefins with phenols and an amount of a strong poly-basic mineral acid sufficient to form acid derivatives of the resulting alkyl phenols, completely neutralizing the resultant product and separating therefrom the resulting salts of the sulphuric acid derivatives.

8. The product made by the process defined in claim 1.

2,162,270
ACOUSTIC DEVICE
Edward E. Mott, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 6, 1934, Serial No. 709,935
2 Claims. (Cl. 179—115.5)

1. An acoustic device comprising a diaphragm, a coil attached to said diaphragm, a magnet

structure defining an air-gap in which said coil is positioned, said structure comprising a magnet, a center pole extending from said magnet toward said diaphragm and a plate pole encompassing said center pole and forming said air-gap therewith, a cup-like member under said air-gap, having openings in the bottom thereof including a central opening through which the center pole projects and having its rim in contact with the plate pole, and resilient means abutting said magnet and said member for holding said rim in engagement with said plate pole.

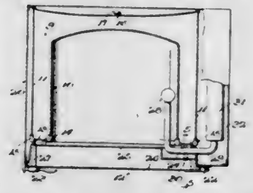


2,162,271

HEAT INSULATING RECEPTACLE

Carl Georg Munters, Stockholm, Sweden, assignor to Aktiebolaget Termisk Isolation, Stockholm, Sweden, a corporation of Sweden

Application April 24, 1933, Serial No. 667,718
In Sweden April 30, 1932
10 Claims. (Cl. 220—9)



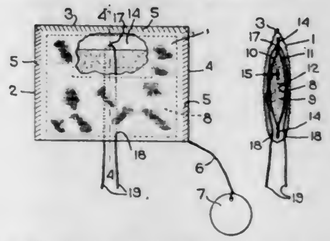
1. Insulating structure including spaced walls, a wall of poor heat conducting properties connecting said spaced walls, said spaced walls having serrated portions and said wall of poor heat conducting properties being engaged on opposite sides by said serrated portions which bite into said wall of poor heat conducting material.

2,162,272

COFFEE BAG, TEA BAG, AND THE LIKE

William S. Patterson, Arlington, Mass.

Application December 8, 1937, Serial No. 178,767
4 Claims. (Cl. 99—77.1)



1. A coffee bag for making an individual cup of coffee, said bag comprising a bag member of fabric, an hermetically sealed container of impervious material situated within the bag member and containing the coffee grounds, and means associated with the container to rupture the latter while it is still confined within the bag member.

2,162,273

INSULATION OF MAGNETIC POWDER FOR MASS CORES, IN PARTICULAR FOR HIGH FREQUENCY PURPOSES

Walter Schulze, Berlin, Germany, assignor to Allgemeine Elektricitatz Gesellschaft, Berlin, Germany, a corporation of Germany

Application March 23, 1936, Serial No. 70,219
In Germany March 27, 1935
1 Claim. (Cl. 175—21)



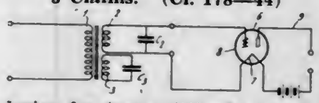
Core material for inductance devices and the like, said core material being formed of particles of magnetic material, each of said particles being provided with two distinct relatively thin coatings of insulation material, the first coating comprising an amber varnish, the second coating comprising polystyrol.

2,162,274

TRANSFORMER DEVICE

Willem Six, Eindhoven, Netherlands, assignor to Radio Corporation of America, a corporation of Delaware

Application January 30, 1935, Serial No. 4,000
In Germany March 14, 1934
3 Claims. (Cl. 178—44)



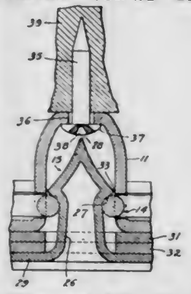
1. A device for transmitting a broad band of audio frequencies comprising, a transformer having a primary and a secondary winding, a third winding inductively coupled to said primary winding and a condenser connected to said third winding the capacity of said condenser forming with the leakage inductance of said third winding a circuit having a resonant frequency which is higher than the leakage resonance frequency of the secondary winding.

2,162,275

GARMENT SNAP

Therese Stanchfield, Los Angeles, Calif., assignor of one-half to Marcia W. Samelson and Edgar M. Samelson, Roscoe, Calif.

Application July 2, 1938, Serial No. 217,306
2 Claims. (Cl. 24—108)



2. In a snap structure, two separable members, one a male member and the other a female member, said male member having a head carried by a neck portion and said female member having means to resiliently grip said neck portion adjacent to said head, said head having a pointed portion which is slenderized by being conically concaved whereby initial penetration of a fabric thereby is facilitated followed by an increased widening of the aperture made in the fabric by said pointed portion.

2,162,276

METHOD FOR THE PREPARATION OF CATALYSTS

John Morris Weiss, New York, N. Y., assignor to Calorider Corporation, Old Greenwich, Conn., a corporation of Connecticut

No Drawing. Application October 20, 1936, Serial No. 106,571
10 Claims. (Cl. 23—234)

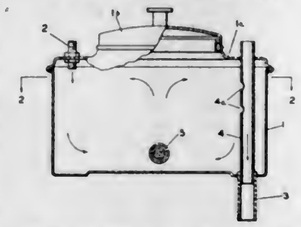
3. The process of producing a catalyst including the formation of an aqueous solution of a water soluble compound of a metallic oxide of the group consisting of oxides of vanadium, molybdenum, zinc, tungsten and chromium and an alkaline water soluble organic amine, coating said solution on a carrier and heating said coated carrier to decompose said compound and leave a deposit of said metal oxide.

2,162,277

FEEDING MEANS FOR WASHING MACHINES

Edward C. Chandler, Cleveland, Ohio

Application October 30, 1937, Serial No. 171,885
2 Claims. (Cl. 299—83)



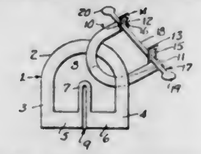
1. In a device of the class described, a container for chemicals which are water soluble at elevated temperatures, water-feeding means located adjacent the upper portion of said container, discharge means having an elevated orifice communicating with said container through which an aqueous solution of the chemicals may be drained from said container when the surface of said solution is at a predetermined level, said water-feeding means and said discharge means being located at different side parts of said container and an electrical heating unit arranged transversely within said container, said unit being below the orifice of said discharge means.

2,162,278

PUZZLE OR EDUCATIONAL TOY

Leopold F. Galeazzo, Brooklyn, N. Y.

Application May 21, 1937, Serial No. 144,011
1 Claim. (Cl. 273—156)



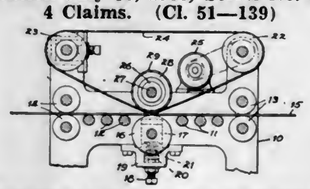
A puzzle or educational toy comprising, in combination, a flat sheet metal ring member provided with an inwardly directed projection extending rigidly into the open area within the said ring member, there being an open slot extending from the edge of said ring member splitting said inward extension along the greater portion of its length, and a flat sheet metal bracket member normally linked with said ring member and having a pair of spaced free ends each provided with a raised perforate lug disposed upon the inner edge of the end at a right angle to the surface of said bracket member upon only one side thereof, the aperture in each lug being elongated in the direction of the upward extension of the lug and sufficiently large to allow the lug to be slid outwardly upon said inward projection, and said open slot in the ring member allowing an end of the bracket member to be initially introduced thereinto in order to slide said lug outwardly upon the same, there being a straight slidably mounted key member bridging the ends of said bracket member upon said one side thereof through the apertures in the lugs of said ends and terminating in flat imperforate head portions preventing loss of said key member from said lugs, said key member being capable of being turned in said lugs in order to have one of the heads introduced into the slot in said inward projection between the lug upon said projection and the inner end of the latter, and thereafter turned in the slot so as to drop through the same and lie in said lugs beneath said inward projection upon the ring member, so that it is subsequently possible to slide said lug inwardly off the inward projection and release said bracket member and key member from assembled relation with the ring member.

2,162,279

METHOD OF AND APPARATUS FOR GRINDING AND POLISHING

Henry R. Herchenrider, Pittsburgh, Pa., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application July 30, 1938, Serial No. 222,266
4 Claims. (Cl. 51—139)



1. A grinding and polishing machine comprising an abrasive belt or the like, means for moving said belt, and a presser roll for holding said belt against materials being ground or polished, during movement of the belt, the said roll having a soft core which supports blocks of harder material disposed peripherally thereof for engagement with said belt.

2,162,280

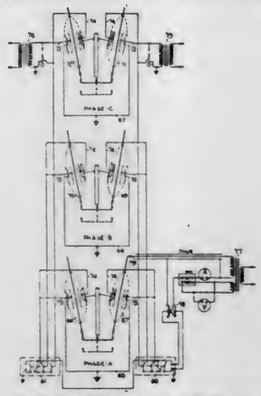
INSULATION TESTING

Ralph Higgins, Akron, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application June 29, 1938, Serial No. 216,487
10 Claims. (Cl. 175—183)

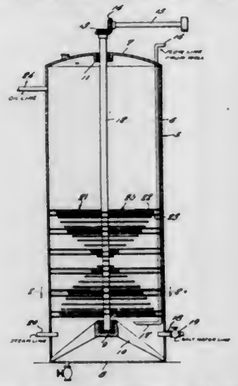
1. The combination with a conductor of a source of alternating voltage having one electrode thereof connected with said conductor, electrical apparatus having two capacitance paths from said conductor to the other electrode of said source, metering apparatus, means for directing the charging current for one of said capacitance paths

through said metering apparatus and a shunt for directing at the same time the current of the other



capacitance path away from said metering apparatus.

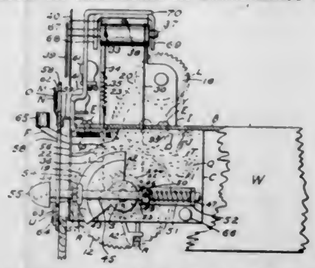
2,162,281
PROCESS FOR TREATING CRUDE OIL
Willie Walter Ledbetter, Gladewater, Tex., assignor to W. T. Olsen, Harris County, Tex.
Application July 8, 1936, Serial No. 89,679
1 Claim. (Cl. 196—3)



The herein described method of separating oil from water comprising confining a column of salt water, introducing the oil into said column at the base thereof to rise therethrough and accumulate above said column, stirring the oil in said column as said oil rises to cause the same to be thrown outwardly toward the sides of the column, retarding the rise of oil in said column at the sides thereof, and withdrawing the accumulated oil above said column.

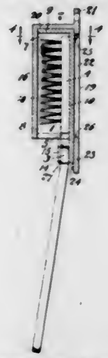
2,162,282
AUTOMATIC TUNER
Le Roy J. Leishman, Los Angeles, Calif.
Application November 22, 1937, Serial No. 175,916
11 Claims. (Cl. 74—10)

1. In a device for positioning a control of a radio set, a combination including: a supporting element; an escutcheon positioned substantially at right angles to said supporting element; a rotatable shaft positioned beneath said supporting element and lying substantially parallel to said escutcheon and to said supporting element; a calibrated scale and indicator positioned above said supporting element; means for varying the relative position between said indicator and the calibrations on said scale in accordance with the



angular position of said shaft; and a member extending substantially perpendicularly from said escutcheon; said member and said supporting element overlapping.

2,162,283
TOOTH BRUSH RETAINER
Benjamin Oshman and Joseph Oshman, New York, N. Y.
Application March 6, 1936, Serial No. 67,498
1 Claim. (Cl. 312—112.5)

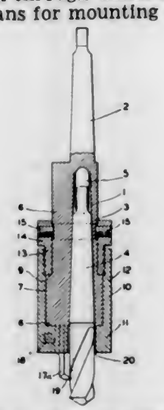


A tooth brush retainer having the combination of a receptacle adapted to receive the back and head of the brush when it is disposed therein in a direction transversely of its length, the end of the receptacle having means adapted to engage the sides of the brush handle to retain the brush against removal therefrom in a longitudinal direction, a container for said receptacle, said receptacle being slidable longitudinally into and out of said container, a detent on the container to hold said receptacle against sliding out of said container, means to hold said receptacle to said container when it is slid out therefrom, and means to maintain said container in suspension whereby drawing downwardly of said brush will slide out said receptacle therefrom for removal of the brush from it.

2,162,284
COUNTERBORE
Adam E. Saxer, Lakewood, Ohio
Application June 10, 1938, Serial No. 212,968
3 Claims. (Cl. 77—58)

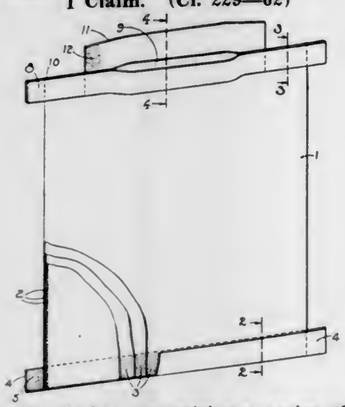
1. A counterbore comprising a holder having a shank for attachment to a spindle, said holder having a socket axially alined with said shank for receiving a drill, said holder having an outer

cylindrical surface eccentric to said drill socket, a cup-shaped carrier having a sleeve portion rotatable about said cylindrical surface and having an end portion, there being an opening through said end portion through which said drill passes, there being means for mounting a cutting bit on



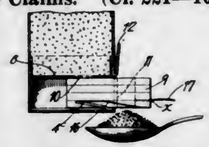
said carrier to one side of said opening, and means for clamping said carrier in adjusted positions on said holder, the relation between the parts being such that said bit is adjustable in such a manner that it may have its cutting edge moved substantially into contact with said drill.

2,162,285
PAPER BAG
Douglas E. Scott, Chagrin Falls, Ohio, assignor to The Chase Bag Company, Cleveland, Ohio, a corporation of Delaware
Application October 19, 1936, Serial No. 106,479
1 Claim. (Cl. 229—62)



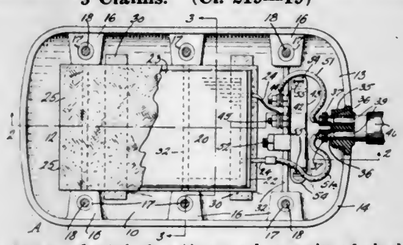
A multi-ply bag comprising a series of nested tubes having their lower ends secured together by means of an adhesive, a fabric reinforcing and sealing strip folded over said cemented lower edges and cemented thereto and to the outer faces of the outermost tube, and the upper ends of the tubes being connected together by cement, a fabric reinforcing and sealing strip cemented to the outer faces of upper end of the outermost tube and folded over and cemented to the edges of the tubes and having a filling slit in said folded edge opposite the abutting inner faces of the inner tube, and a fabric closure strip cemented to one side face of the last-mentioned fabric reinforcing and sealing strip and having an adhesive on its inner upper face whereby after the bag is filled the closure strip is drawn over the edges of the reinforcing and closing strip drawing the faces of the inner tube together and also drawing the edges of the filling slit together and cemented to the edge and opposite side faces of the reinforcing and closing strip tightly holding the edges of the slit together and sealing the same.

2,162,286
CARTON FOR GRANULAR MATERIAL
Emil E. Siefert, New Rochelle, N. Y.
Application January 28, 1938, Serial No. 187,374
9 Claims. (Cl. 221—104)



1. A carton made of a single piece of flat and flexible material and folded so as to form a receptacle, a tray of a form to receive the contents of the receptacle and arranged above the bottom of the said receptacle and adapted to receive the entire contents of the receptacle, and retain said contents above the bottom of the receptacle, said tray having an elongated slot therein in its bottom, and a dispenser sliding relatively to and under the tray and within the receptacle and said dispenser being provided with an aperture adapted to deliver a part of the said contents of said tray, outside the receptacle, and cooperative means between the dispenser and bottom of the receptacle adapted to limit the sliding movement of the dispenser.

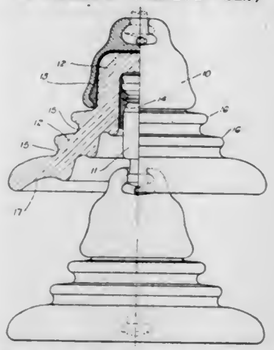
2,162,287
ELECTRIC HEATING PAD
William W. Smith, Buffalo, N. Y.
Application November 5, 1938, Serial No. 239,078
5 Claims. (Cl. 219—19)



1. In an electric heating pad, a pair of shallow substantially rectangular, opposed molded half shells formed of insulating material and each having abutting marginal portions, securing means for maintaining said half shells in abutting relation whereby said shells form a closed chamber, a flat substantially rectangular electrical heating element in said chamber, a plurality of integral spaced bosses arranged to extend inwardly from opposite marginal portions of said shells and forming stops at a considerable distance from the sides of said chamber between which said heating element is disposed and by which said element is spaced from said margins of said shells, slabs of insulating material abutting the opposite flat faces of said heating element, and which, when said securing means are in operative position, are clamped between said heating element and the opposed faces of said half shells to thereby hold said element against

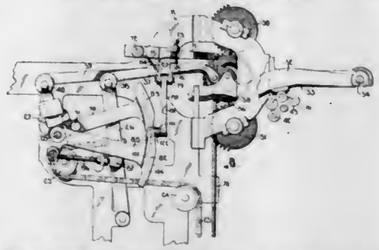
shifting, electrical contact receiving members permanently embedded in an end of one of said shells, and conductors leading from said element to said contact receiving members.

2,162,288
INSULATOR
John J. Taylor, Wadsworth, Ohio
Application March 9, 1938, Serial No. 194,848
6 Claims. (Cl. 174—212)



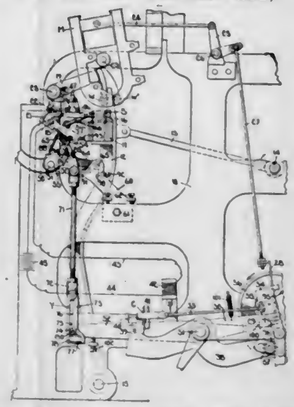
4. An insulator comprising a dielectric member having a conical flange extending outwardly and downwardly in straight line continuity at an angle of approximately 45° to the axis of the insulator, the opposite surfaces of said flange being arranged in steps of approximately equal extent and disposed in registration so that an approximately uniform thickness of flange is provided.

2,162,289
PATTERN CONTROL FOR SHUTTLE CHANGING MECHANISM
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 11, 1936, Serial No. 100,349
12 Claims. (Cl. 139—232)



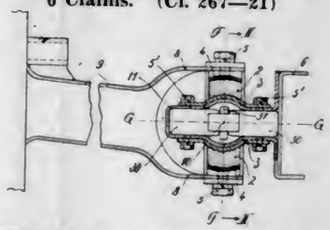
1. In a weft replenishing loom, a pair of shifting shuttle boxes, weft replenishing mechanism to supply two distinctive types of reserve weft, a selector for the weft replenishing mechanism to determine which type of reserve weft is to be selected, means to shift the shuttle boxes so that either box is rendered active, a cam operated by said means and having two tracks, each track having high and low areas, cam follower means in engagement with the cam and connected to the selector to move the latter, mechanism to transfer the cam follower means from one track to the other when the direction of motion of the cam is reversed, the length of the areas of the two tracks being unequal when measured from any given point of reversal.

2,162,290
REVOKER FOR WEFT REPLENISHING LOOM
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application February 26, 1938, Serial No. 192,783
9 Claims. (Cl. 139—231)



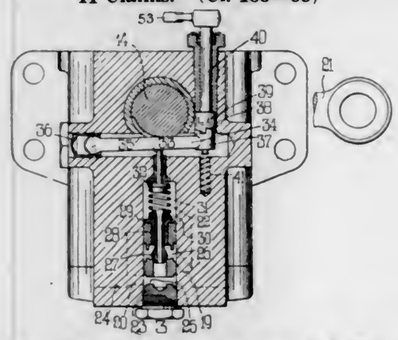
1. In a weft replenishing loom having a lay and operating with a shuttle, means to hold a reserve bobbin for transfer into the shuttle, transfer mechanism to insert the reserve bobbin in the shuttle, a lay engaging latch forming part of the transferring mechanism and normally out of the path of the lay, a shuttle feeler normally out of the path of the shuttle, an actuator having a given motion, a yieldable connection between the actuator and the latch and shuttle feeler yieldable in two stages one of which requires a large force and the other of which requires a small force only, said actuator transmitting a force without yielding of the yielding connection to set the latch and shuttle feeler for transfer during the first part of said given motion, said actuator thereafter continuing to move to effect a first stage of yielding of the yielding connector by the application of a relatively large force, and the shuttle feeler movable by a misplaced shuttle to effect a second stage of yielding of the yielding connection by transmission thereto of a relatively small force to effect movement of the latch away from transfer position.

2,162,291
SPRINGING ARRANGEMENT FOR VEHICLES
Oskar Hermann Arlt, Zwickau, Germany, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany
Application March 17, 1937, Serial No. 131,476
In Germany March 26, 1936
6 Claims. (Cl. 267—21)



1. A springing arrangement more particularly for motor vehicles comprising a link member, a wheel guided by said link member, a bearing bracket and shear stressed rubber strips arranged parallel to the axis of rotation of the link member and having bearing surfaces arranged concentrically to said axis, said bearing strips being interposed between said link and said bracket and constituting the rotary bearing for said link member.

2,162,292
HYDRAULIC SHOCK ABSORBER OR THE LIKE DAMPING MEANS
Fullerton George Gordon Armstrong, Beverley, East Yorkshire, England, assignor to The Armstrong's Patents Co. Ltd., Beverley, East Yorkshire, England, a British company
Application May 17, 1938, Serial No. 208,484
In Great Britain May 22, 1937
11 Claims. (Cl. 188—88)



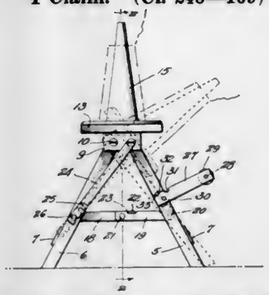
1. A differential pressure operated damping means comprising a bored casing adapted to be connected to one of a pair of elements whose relative displacement is to be damped, a shaft connected to the other element of said pair and having a cam face, a pair of pistons longitudinally displaceable in opposite directions in accordance with angular displacement of said shaft, a pair of chambers within which said pistons operate, a pair of conduits between said chambers and said bore, a hollow valve member having a head and stem located in said casing bore for regulating fluid flow in one direction between said piston chambers, a sleeve valve surrounding said hollow valve for regulating fluid flow in the opposite direction between said piston chambers and operably connected to the stem of said hollow valve at that end remote from the valve head, resilient means for resisting movement of said valves in the opening direction and at least two independent means, one of which is under the control of said cam face for adjusting the load created by said resilient means.

2,162,293
RAIL JOINT BAR
Victor C. Armstrong, Short Hills, N. J., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Application March 25, 1938, Serial No. 198,115
4 Claims. (Cl. 238—243)



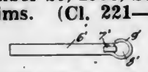
4. A splice bar of uniform cross-sectional area throughout including a head, a base and a web, and elongated, horizontally disposed strengthening ribs of metal of narrow height extending outwardly from and longitudinally along the head and the base, respectively, said ribs being of lesser length than the bar and being located medially of the bar.

2,162,294
CROCHET STAND OR HOLDER
David E. Baldwin, Portsmouth, Va.
Application July 3, 1937, Serial No. 151,905
1 Claim. (Cl. 248—169)



A device of the character described comprising a platform, a bed plate disposed under said platform against the under face thereof and at opposite ends being formed with depending flanges, supporting legs, rigid braces connecting said legs in pairs, the legs of each pair converging upwardly, fasteners passing through said flanges and the upper ends of said legs to pivotally mount the pairs of legs for swinging movement from a folded position under said plate to an extended position, break-joint braces extending between and pivoted to the pairs of legs for limiting movement of the pairs of legs away from each other to an extended position, a locking bar pivoted at its upper end by the fastener for a leg of one pair of legs and having its lower end portion formed with side notches spaced from each other longitudinally of the bar, and a pin projecting laterally from the adjacent leg of the other pair of legs for engaging in a selected one of said notches and holding the bed plate and the platform in an angularly adjusted position.

2,162,295
COLLAPSIBLE TUBE KEY
Rome R. Benedict, Chattanooga, Tenn.
Application November 20, 1936, Serial No. 111,934
4 Claims. (Cl. 221—60)

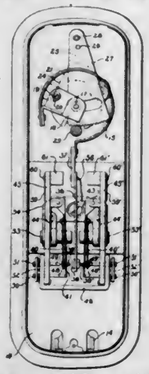


1. A key of the character described comprising a body portion bent intermediate its ends to form a pair of parallel arms for clamping the end of a collapsible tube, a handle for rotating said key, a slot in said handle, a finger on one of said arms and extending through said slot into engagement with the other of said arms to maintain them in tight engagement with said tube.

2,162,296
SENSITIVE CONTROL DEVICE
Ralph R. Chappell, Richmond, Va., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 23, 1936, Serial No. 117,389
6 Claims. (Cl. 200—139)

1. In apparatus of the class described, an arm of magnetic material having one of its ends free

for movement, a pair of movably supported contacts mounted at opposite sides of said arm, means for limiting in two directions the movement of each of said contacts, a sensitive control element responsive to the condition of the surrounding air for moving the free end of said arm into engagement with one or the other of said

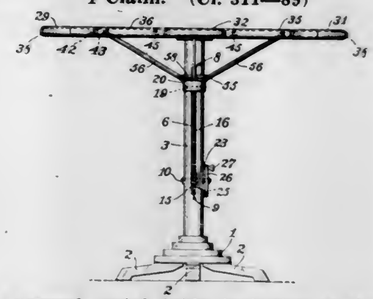


contacts depending on said condition, and magnetic means affecting said arm and tending to hold the same in engagement with the contact engaged thereby and adapted to assist said sensitive element to insure movement of said arm from one contact to the other whenever said arm is moved out of engagement with said one contact.

2,162,297
CUTTING COMPOUND
Alfred E. Dahlberg, Chicago, Ill.
No Drawing. Application March 22, 1937, Serial No. 132,298
11 Claims. (Cl. 87—9)

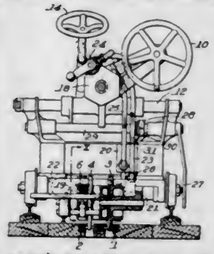
1. A straight cutting oil comprising a substantially non-aqueous mixture containing a major proportion of an oil and minor proportions of oleic acid and ammonium oleate.

2,162,298
TABLE
Carleton A. Dailey, Penn Yan, N. Y.
Application July 21, 1937, Serial No. 154,880
1 Claim. (Cl. 311—89)



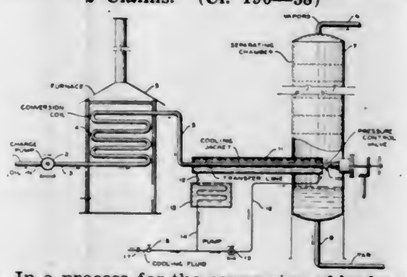
A pressed metal table including a standard having a fixed base, a plurality of segmental sections hinged to a plate to form the table top, certain of the segments provided with outwardly extending projections on their under surfaces to raise the remainder of said segments, the said segments that are provided with the outwardly extending means also having pivotal arms, the standard provided with vertical slots, a collar on said standard, a cross bar connected to the collar, said cross bar riding in said slots and the lower ends of said arms connected to said collar, rack and pinion means mounted in the standard and the rack connected to said cross bar, a handle connected indirectly with said pinion whereby an operation of said handle will elevate and lower all of said segments, and means on the standard for cooperation with the handle for locking the handle and thereby the pinion to thus hold the segments in a desired position.

2,162,299
LOG CARRIAGE
Kaleb Emil Evrell, Eskilstuna, Sweden, assignor to Aktiebolaget Bolinder-Munktell, a corporation of Sweden
Application February 2, 1937, Serial No. 123,709
In Sweden February 10, 1936
18 Claims. (Cl. 143—105)



1. In a log carriage arrangement for saw mills, two warping chains adapted to be driven in opposite directions from a source of power outside the log carriage, a first chain wheel and a second chain wheel adapted to mesh with said warping chains respectively, means for braking either of said chain wheels whereby to move said log carriage in either direction, a gripping device for holding a log during the sawing operation, a servo motor for actuating said gripping device, an impeller for delivering pressure medium, means for supplying said pressure medium to said servo motor, and means for driving said impeller by said warping chains.

2,162,300
PROCESS FOR TREATMENT OF HYDROCARBONS
James L. Farrell and Gerald A. Ibach, Whittenburg, Tex., assignors to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Application May 17, 1935, Serial No. 22,078
2 Claims. (Cl. 196—58)



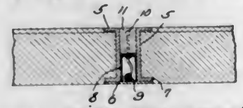
1. In a process for the conversion of hydrocarbons which comprises heating hydrocarbons to a conversion temperature under pressure and discharging the heated hydrocarbons through an elongated confined passageway into a separating zone, the improvement which comprises cooling a portion of said passageway by indirect heat exchange sufficient to cool the thin film of conversion products adjacent the surface of the passage to a temperature sufficiently low to prevent carbonization of said film, but so controlled that the remaining products passing through said passage will remain at substantially the conversion temperature.

2,162,301
POST
George A. Gleason, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application March 15, 1937, Serial No. 131,092
2 Claims. (Cl. 189—23)



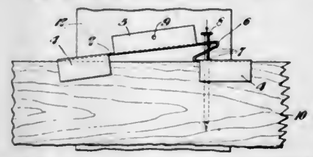
1. The combination of a metallic post consisting of a body member having a ground-engaging portion associated therewith at a spaced distance from the bottom end thereof, the lower portion of said body member disposed in a hole in the ground with said ground-engaging portion disposed in the hole below the ground level and forced against the ground at the bottom thereof as the post is driven thereinto so as to impact the earth at the bottom of said hole to provide a firm foundation therefor, the portion of the body member positioned below the ground-engaging portion extending into the earth below the bottom of said hole and serving as a means for directing and guiding the post thereinto and for holding the same temporarily in position therein so that the ground filled into said hole afterwards around the lower portion of the post and impacted upon the top side of said ground-engaging portion will cooperate therewith to securely hold the post in place and resist any force tending to remove it thereform.

2,162,302
ILLUMINATED GUIDE LINE
John H. Greene, Little Rock, Ark.
Application July 9, 1937, Serial No. 152,862
4 Claims. (Cl. 177—329)



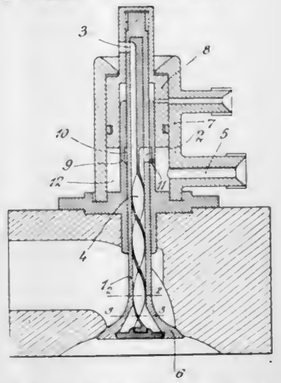
1. A highway traffic line comprising parallel spaced channel bars having their open sides disposed outwardly, providing spaces to receive material of which the highway is constructed, anchoring the channel members in the road surface, a base plate on which the channel bars are mounted, a channel bar disposed between the first mentioned channel bars and having its open sides disposed downwardly, a glass block disposed between the parallel channel bars and resting on the last mentioned channel bar, the upper surface of the glass block being flush with the upper edges of the spaced channel bars, electric lighting means within the glass block and electric wires housed in the last mentioned channel bar for directing electric energy to the electric lighting means within the glass block.

2,162,303
SELF-TIGHTENING CLIP FOR APPLYING SHEATHING TO METALLIC MEMBERS
Gerald G. Greulich, Mount Lebanon, Pa.
Application September 28, 1938, Serial No. 232,204
4 Claims. (Cl. 189—35)



1. A self-tightening clip for attaching sheathing to structural members comprising a main body, flanges on each end of said main body, said main body provided with a folded portion between the ends thereof, sheathing engaging flanges formed on said main body, aligned openings in said folded portion of said main body and means for compressing the folded portion of said main body whereby said end flanges will be brought into engagement wth the flange of the structural member to rigidly interlock said clip thereto.

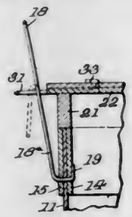
2,162,304
INTERNALLY COOLED VALVE FOR COMBUSTION ENGINES
Court Gross, Oslo, Norway, assignor to Motoraktieselskapet av 1935, Oslo, Norway
Application February 24, 1937, Serial No. 127,509
In Norway January 23, 1937
1 Claim. (Cl. 123—177)



An internally cooled valve for internal combustion engines of that type which is wholly or partly operated by means of air under pressure comprising a hollow valve stem, a piston secured to said valve stem, a valve operating cylinder for said piston and means for leading the outlet air

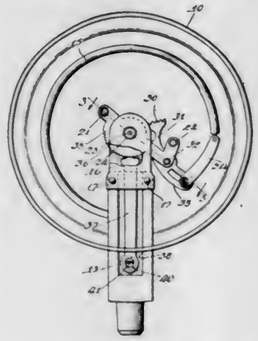
from said cylinder through said hollow valve stem in order to utilize the pressure air for internally cooling said valve.

2,162,305
BASKET COVER AND FASTENER
Willis W. Hargroves, Portsmouth, Va., assignor to Planters Manufacturing Company, Inc., Portsmouth, Va., a corporation of Virginia
Application February 25, 1936, Serial No. 65,722
4 Claims. (Cl. 217—124)



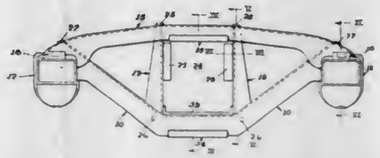
1. A cover for a basket comprising a rim, a mat portion secured to said rim, and fastener elements having the inner ends thereof secured to said mat portion within the rim and extending outwardly between said mat portion and said rim, the free ends of said fastener elements extending beyond said rim and adapted to cooperate with the fastening means on the basket body.

2,162,306
GAUGE ADJUSTING MEANS
Reynold T. Hedfield, Chicago, Ill., assignor to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application February 5, 1938, Serial No. 188,856
12 Claims. (Cl. 73—109)



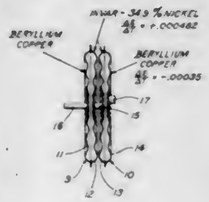
2. A gauge of the character described, comprising an element responsive to variations in a physical condition, a graduated dial, a pointer arranged to move over said dial in response to variations of said element, a support, a transmission mechanism between said element and said pointer, a frame pivotally mounted on said support at the axis of said pointer and carrying said transmission mechanism, a gear segment fixed to said frame, and an arm pivotally mounted on said support and having a gear segment on its free end cooperatively engaging the gear segment of said frame to move said frame and thereby adjust said pointer by a pivotal movement of said arm.

2,162,307
CAR TRUCK SIDE FRAME
Clarence W. Howat, Pittsburgh, Pa.
Application April 1, 1937, Serial No. 134,311
10 Claims. (Cl. 105—206)



1. A side frame formed from a plurality of members welded together to form an integral unit comprising a compression member of rolled steel plate formed into channel section having depending flanges, a horizontally disposed tension member of rolled steel formed into channel section having depending flanges, vertical tension members positioned in spaced relation between the compression and horizontally disposed tension members adjacent the center of said members, a reinforcing member of U-shape having flanges extending upwardly about the outer surfaces of the flanges of the compression member, a second reinforcing member of U-shape having flanges extending upwardly about the outer surfaces of the flanges of the horizontally disposed tension member, journal boxes having flat roofs, each roof having an upstanding flange of U-shape engaging the end of the compression member and means positioned at points of stress transfer for providing stress transfer by direct metal to metal contact, whereby the load exerted on the frame is carried by the respective members, thereby relieving the weld of a considerable portion of the shear.

2,162,308
DIAPHRAGM DEVICE
Cletus J. Jenny, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 21, 1936, Serial No. 91,783
6 Claims. (Cl. 137—156.5)



1. An expansible diaphragm device which is self-compensated for changes in temperature, comprising a pair of flexible metal discs joined together along their peripheries to form an expansible chamber, one of said discs being of metal having a positive temperature coefficient of modulus of elasticity and the other being of metal having a negative temperature coefficient of modulus of elasticity whereby the resulting net change in elasticity of the two discs due to changes in temperature is substantially zero and, hence, the only expansion and contraction of said chamber will be that produced by a difference in pressure between the inside and outside of said chamber.

2,162,309
MOVABLE DUSTPROOF BUSH FOR WINDING KEYS
Helmut Junghans, Schramberg-Sulgen, Wurttemberg, Germany
Application February 24, 1937, Serial No. 127,547
In Germany February 25, 1936
1 Claim. (Cl. 16—2)



A movable dustproof bush which is adapted to be rotatably provided in the openings in the cover plates of clocks, particularly for winding keys, setting screws, and the like, comprising two parallel disks each having a central opening which is but slightly larger than the cross sectional area of the key or screw to be inserted through the openings, said disks at the openings being interconnected by a relatively short tubular part to rigidly secure and space the disks from each other to accommodate the thickness of the cover plate, and the one of said disks which is adjacent the outside surface of the cover plate having a peripheral edge flange which is spaced from the cover plate and which extends radially outwardly from the said disk to conceal the part of the outside surface of the cover plate which comes in direct contact with the said disk.

2,162,310
SPREADER FOR TREATING LIQUIDS
Lawrence S. Korsen, Chicago, Ill.
Application October 21, 1937, Serial No. 170,229
13 Claims. (Cl. 91—25)



1. In a liquid spreader of the character described, a valve comprising at least two valve members rotatable with respect to each other to control the opening of the valve, a head secured to one of said members, and a lock-seam tube secured to the second of said valve members, said second valve member having an exterior longitudinal groove into which the head of said tubing extends to prevent turning movement between said second valve member and tubing, said tubing comprising a handle and reservoir, and said second valve member having an opening to pass liquid from the reservoir to the valve.

2,162,311
PROCESS FOR PRODUCING GRAPHITE WRITING AND DRAWING LEADS
Karl Kreutzer, Nuremberg, Germany, assignor to the firm J. S. Staedtler, Nuremberg, Germany
No Drawing. Application January 25, 1937, Serial No. 122,322. In Germany July 7, 1936
3 Claims. (Cl. 106—5)

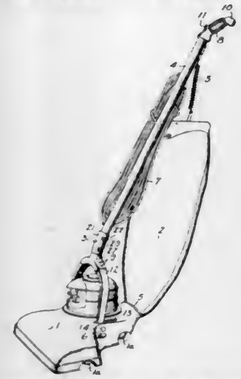
1. A process of making graphite writing and drawing leads comprising adding ethyl ether of oxyquinoline to the graphite-clay lead.

2,162,312
LAY CONSTRUCTION FOR LOOMS
Clarence R. Kronoff, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application February 26, 1938, Serial No. 192,815
15 Claims. (Cl. 139—188)



1. In a loom, a lay having a shuttle box, a shuttle box supporting lay end secured to one end of the lay, driving means for the lay connected to the latter between the center of the lay end and the center of the lay, a lever pivoted intermediate the ends thereof to the lay and having one end engaging the lay end, and a counter-weight mounted on the other end of the lever to resist motion of the lay end relatively to the lay when the latter is moved to one extreme of its motion by said driving means.

2,162,313
OPERATING HANDLE FOR MANUALLY PROPELLED TOOLS
John J. McCabe, Cleveland, and Arthur W. Seyfried, Shaker Heights, Ohio, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 6, 1935, Serial No. 15,132
24 Claims. (Cl. 280—48)

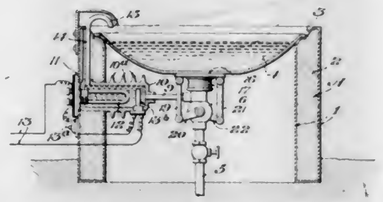


18. A steering handle for a manually propelled, wheel supported tool comprising upper and lower handle sections, a hand grip at one end of the handle, means for attaching the other end of the handle to the tool, and means for coupling the sections of said handle to each other on a substantially fixed angle to permit relative rotational movements of the handle sections for effecting the steering of the tool when the upper handle section is twisted about its axis.

2,162,314
POULTRY FOUNTAIN
Thomas Perri, Toms River, N. J.
Application August 5, 1938, Serial No. 223,314
2 Claims. (Cl. 119—73)

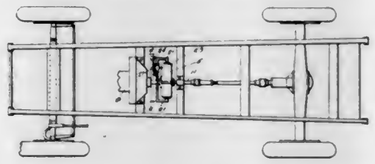
1. A poultry fountain including a housing, a receptacle for holding drinking water forming a removable cover for the housing, a source of water supply within the housing, a valve, a pipe line between said valve and said receptacle, said pipe line including a water tight casing located within the housing, an electrical heating element

within the casing for heating the water flowing through said pipe line, and means for yieldingly supporting said receptacle associated with said



valve, said means being actuated by the weight of the contents of the receptacle automatically to control the flow of water thereto.

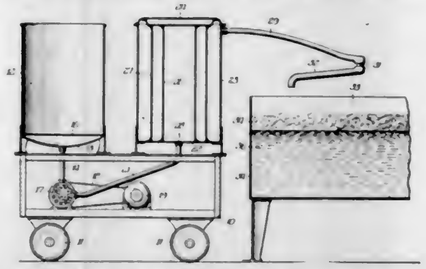
2,162,315
HYDRAULIC TRANSMISSION
Glen Pittman, Wayne, Mich.
Application December 7, 1937, Serial No. 178,573
1 Claim. (Cl. 192—60)



A hydraulic transmission device for connecting a drive shaft to a driven shaft comprising a transversely arranged cylinder having the central portion on one side thereof connected with the drive shaft and a bearing on the opposite side of the cylinder and located opposite the point of connection of the cylinder with the drive shaft, said driven shaft passing through the bearing, a crank member in the cylinder having one end connected with the driven shaft, means for rotatably supporting the other end of the crank member in the end of the drive shaft which is connected with the cylinder, a pair of pistons in the cylinder, connecting rods connecting the pistons with the crank of the crank member, a pipe line having its ends connected with and in communication with the ends of the cylinder, a valve casing located in the line, a rotary core in the casing and having an arm extending at right angles therefrom, a weight on the end of the arm and acting under centrifugal force to move the core to close position and spring means for normally holding the core in open position.

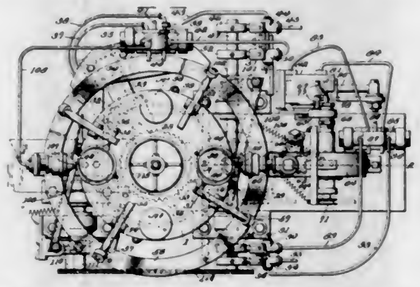
2,162,316
METHOD OF TREATING LIQUID EGG MATERIAL
Marvin C. Reynolds, Chicago, Ill.; Lulu E. Reynolds and First National Bank of Chicago, executors of said Marvin C. Reynolds, deceased, assignors to The Emulsol Corporation, Chicago, Ill., a corporation of Illinois
Application January 28, 1935, Serial No. 3,770
2 Claims. (Cl. 99—210)

1. The method of producing improved dried egg white of substantially uniform character and without substantial wastage which comprises forcing liquid egg whites under pressure through a fine mesh screen, subjecting the resulting screened product to controlled fermentation whereby substantially all of the liquid egg whites



undergo uniform fermentation, and then drying the resulting fermented product.

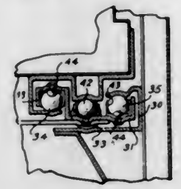
2,162,317
METHOD AND APPARATUS FOR FUSING CHARACTERS TO MOLDED GLASS ARTICLES
Anton G. Rez, Seattle, Wash.
Application October 19, 1936, Serial No. 106,466
12 Claims. (Cl. 49—1)



5. An apparatus for applying characters to glass articles including in combination a turret, means for intermittently rotating the turret, a plurality of article supporting devices mounted on said turret, a stencil associated with each article supporting device, means for clamping the article against the stencil, a pigment supplying means including a nozzle, means associated with the nozzle for projecting an air stream from the nozzle in which a fusible pigment is suspended, and means for oscillating the support for the glass article and the stencil about a common axis for producing a relative movement between the nozzle and the stencil.

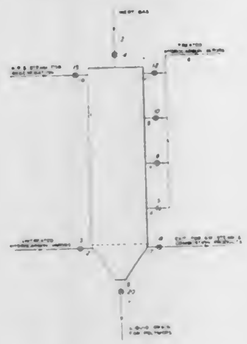
12. The method of applying designs to glass articles having curved surfaces consisting in associating with the article a stencil curved to conform to the surface of the article and contacting therewith, projecting a stream of fusible pigment through the stencil against the surface of the glass while the glass contains heat sufficient to cause the pigment to adhere thereto by fusion, and in a limited portion of the field where the designs are to be applied, with the pigment particles striking the curved surface radially thereof whereby the particles of pigment contacting with the glass impinge on the soft glass surface and adhere until the heat of the glass will cause the pigment to unite thereto by fusion, and shifting the glass and stream of pigment relative to each other until the entire field is contacted therewith by said pigment in a similar manner.

2,162,318
DRAWER SUSPENSION
Fred A. Schmitz, Norwood, Ohio, assignor to Globe-Wernicke Company, Norwood, Ohio, a corporation of Ohio
Application January 12, 1937, Serial No. 120,251
4 Claims. (Cl. 45—77)



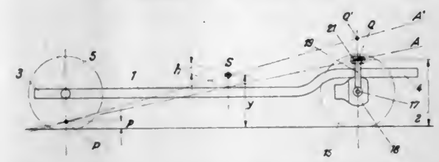
3. In a filing drawer construction, a cabinet having a drawer space and a track on the bottom thereof, and an overhanging track, a drawer having a track on the bottom thereof, and an underhanging track, and a suspension unit having a ball confined substantially centrally thereof, and adapted to ride between the track on the bottom of the space and the track on the bottom of the drawer, said suspension unit having an underhanging track disposed in cooperative relation with said overhanging track on said cabinet, and an overhanging track disposed in cooperative relation with said underhanging track on said drawer, and balls riding between said respective cooperating sets of tracks, and said suspension unit having also a track in cooperative relation with said track on the bottom of said drawer, and a ball riding between said last mentioned tracks and cooperating therewith.

2,162,319
PROCESS FOR TREATING HYDROCARBONS
Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 6, 1936, Serial No. 104,303
4 Claims. (Cl. 196—28)



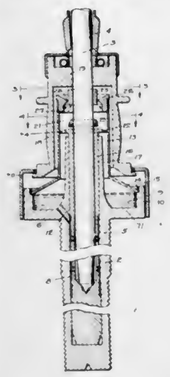
4. In a process for treating cracked gasoline stock to reduce its sulfur content in which the cracked gasoline is contacted in vapor form with a bauxite catalyst at a temperature about in the range of 500° to 750° F. and substantially atmospheric pressure whereby the sulfur containing impurities are decomposed, the improvement which comprises limiting the contact time to a period less than two seconds but more than one-tenth of one second.

2,162,320
AUTOMOBILE
Oskar Siebler, Zwickau, Saxony, Germany, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany
Application February 12, 1936, Serial No. 63,646
In Germany February 14, 1935
2 Claims. (Cl. 280—124)



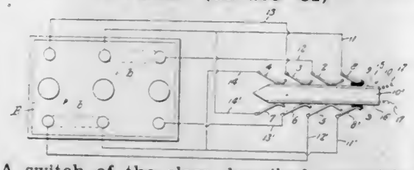
2. In a motor vehicle, a chassis frame having its rear end arranged at a higher elevation than its front end portion, means including links pivotally connected to the front end portion of the frame for movement about horizontal axes, front steering axles operatively connected to the links, springs operatively connecting the links and frame to resist upward movements of the links, front wheels mounted on said axles, a rigid rear axle extending beneath the rear portion of the frame, rear wheels mounted on the rear axle, supporting means mounted on the rear axle, transverse leaf springs carried by said supporting means and positioned above the center of gravity of the chassis, and means connecting the medial portion of the leaf springs to the rear end portion of the frame for supporting the latter.

2,162,321
SPINDLE
Emerson B. Tifft, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application August 20, 1938, Serial No. 225,918
15 Claims. (Cl. 308—169)



1. A spindle comprising an oil-containing base, said base being open at its top but otherwise oil-tight, a bolster located within said base entirely below the top thereof, the oil level in said base being appreciably below the top of said bolster, a spindle blade revolving in said bolster, means located within said base adjacent the top thereof for sealing said top against the escape therefrom of oil-laden air, and means within said base adjacent the top of said bolster for preventing oil in liquid form from moving upwardly into contact with said sealing means.

2,162,322
BATTERY ATTACHMENT
Orlo Alvin Tollefson, deceased, late of Columbia County, Wis., by Eleanora Tollefson, administratrix, Antigo, Wis.
Application April 28, 1938, Serial No. 204,844
1 Claim. (Cl. 200—51)



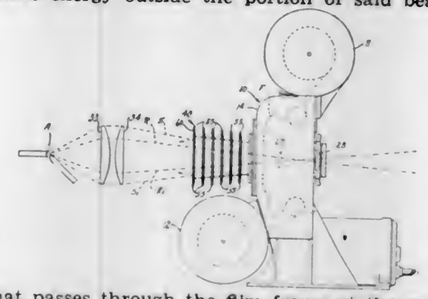
A switch of the class described comprising a socket member, a plurality of pairs of spring contact members carried by the socket member, one pair of members normally engaging another pair of members, a plug of non-conductive material having spaced contact strips thereon, said plug when inserted in the socket member having one strip contacting one member of each pair and the other strip contacting the other member of each pair and said plug when inserted in the socket member moving said one pair of members out of engagement with the other pair of members and said one pair of members having non-conductive parts thereon engaging the strips of the plug when the plug is inserted in the socket member.

2,162,323
PROCESS FOR THE RECOVERY OF BERYLLIUM COMPOUNDS
Albert Wille, Frankfort-on-the-Main, and Gustav Jaeger, Neu-Isenburg, Germany, assignors to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application June 15, 1936, Serial No. 85,430. In Germany June 20, 1935
7 Claims. (Cl. 23—16)

1. A process for recovery of beryllium compounds from beryllium-containing minerals which comprises mixing the said material in a finely ground state with a quantity of ammonium fluoride which is substantially less than the theoretical quantity necessary to convert the beryllium present into ammonium beryllium fluoride, heating the mixture in a closed vessel to decompose the material and to produce a substantial quantity of beryllium oxyfluoride, leaching the reaction product after the decomposition is completed with water and recovering the beryllium from its solution thus obtained.

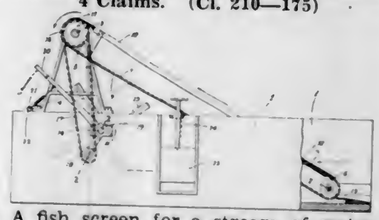
2,162,324
HEAT RADIATOR FOR PROJECTION MACHINES
George H. Worrall, Los Angeles, Calif., assignor to Mitchell Camera Corporation, West Hollywood, Calif., a corporation of Delaware
Application November 1, 1937, Serial No. 172,192
6 Claims. (Cl. 88—24)

1. In combination with a projection machine having a projection aperture and means for projecting a converging beam of light through a film frame at said aperture, heat absorbing and radiating means disposed to the rear of said projection machine, said means comprising a wall surrounding and converging with said converging light beam and provided with inwardly extending fins disposed in planes extending transversely and spaced longitudinally of said light beam, the bounding edges of said fins defining said converging light beam and said fins being adapted to intercept and absorb stray radiant energy outside the portion of said beam



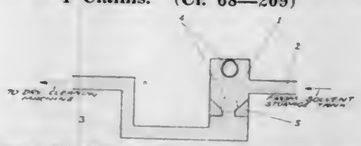
that passes through the film frame at the projection aperture, and heat insulation means supporting said heat absorbing and radiating means on the projection machine.

2,162,325
FISH SCREEN
Larkin Briles, Chico, Calif., assignor of one-half to Henry J. Coffee, Modesto, Calif.
Application January 12, 1938, Serial No. 184,584
4 Claims. (Cl. 210—175)



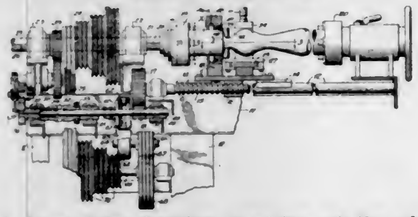
1. A fish screen for a stream of water, said screen comprising a pair of side walls adapted to be disposed with the stream passing therebetween, an endless screen conveyor mounted between the walls and extending lengthwise relative to the direction of flow of the stream with an upward incline in said direction from adjacent the bottom of the stream, means to drive the screen so that its upper reach travels in such direction and a water discharge gate in one wall beyond the lower or pick up end of the screen but ahead of the upper or debris discharge end thereof.

2,162,326
SAFETY DEVICE
Nelson C. Cooper, Marshallton, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 17, 1936, Serial No. 101,292
4 Claims. (Cl. 68—209)



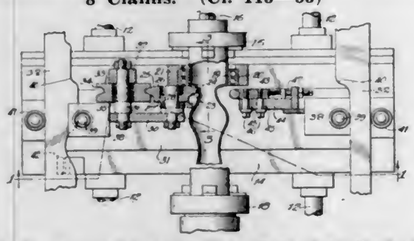
4. In combination with a dry-cleaning machine having a conduit for supplying liquid solvent thereto, a float-chamber interposed in and forming a part of said conduit, a float having a predetermined specific gravity within the range of 0.9 to 1.6, said float being movable within said float-chamber to assume a floating position in the presence of a liquid having a specific gravity exceeding said predetermined value and to assume a non-floating position in the presence of a liquid of specific gravity less than said predetermined value, and a seat to receive said float and thereby to prevent flow of liquid through said float-chamber when said float is in non-floating position.

2,162,327
MACHINE FOR CONFIGURING TUBES
Clarence L. Dewey and Sydney L. Dewey, Elkhart, Ind., assignors to Metal Tube Shaping Corporation, Elkhart, Ind., a corporation of Indiana
Application December 20, 1937, Serial No. 180,798
17 Claims. (Cl. 113—53)



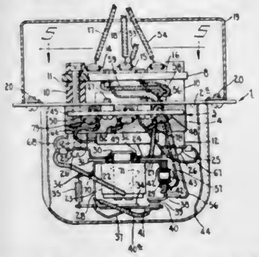
1. In a tube forming machine of the class described, the combination of a chuck member adapted to engage a tube, a slidably and rotatably mounted shaft carrying the chuck member, rotatable driving elements slidably engaging the shaft and fixedly held against longitudinal movement for imparting rotation to the shaft and permitting longitudinal movement thereof to compensate for elongation of the tube, a carriage mounted for longitudinal movement with respect to the tube, a slide plate mounted upon the carriage and movable thereon radially with respect to the axis of the tube, a forming tool carried by the slide plate and adapted to act against the wall of the tube, a bushing carried by the carriage and positioned to engage and sustain the tube immediately in advance of the point of deformation by the tool, means for imparting predetermined in and out movements to the slide plate to impart the desired configuration to the tube, and means for holding the tube as a whole against the forward thrust of the forming tool.

2,162,328
FORMING TOOL FOR TUBE FORMING MACHINES
Clarence L. Dewey and Sydney L. Dewey, Elkhart, Ind., assignors to Metal Tube Shaping Corporation, Elkhart, Ind., a corporation of Indiana
Application December 20, 1937, Serial No. 180,801
8 Claims. (Cl. 113—53)



1. In a machine of the class described, the combination of means for supporting a tube, a forming roller and a mounting for journalling the same in position to bring the edge of the roller into coacting relation with the wall of the tube, means for imparting radial movements to the forming roller with respect to the axis of the tube, a backing roller engaging the edge of the forming roller and radially movable therewith for holding the forming roller in its intended position with respect to the tube, means for imparting relative rotation to the tube with respect to the forming roller, and means for exteriorly reinforcing the tube and located forwardly of and in close proximity to the forward face of the forming roller and means for imparting longitudinal movement relatively to the tube, to the forming roller, the mounting and backing rollers, and reinforcing means.

2,162,329
TRANSFORMER RELAY UNIT
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application April 2, 1937, Serial No. 134,491
6 Claims. (Cl. 175—298)

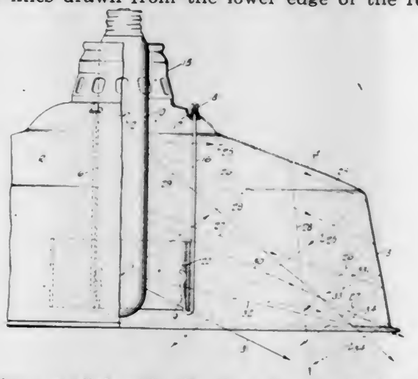


4. An electrical apparatus comprising a supporting base plate member having an opening therethrough, supporting ears extending from said member into said opening, a transformer core having laminations lying in the plane of and against said member, said core having spaced apertures therethrough registering with said opening and providing a cross-member, transformer coils surrounding said cross-member and received by said opening, electric insulator members at the ends of said cross-member and seating against said core, a supporting member secured to said insulator members and bridging said coils, relay switch mechanism secured on said supporting member on the opposite side of said core from said base member, a terminal carrying plate member positioned on the opposite side of said base member from said mechanism and overlying said opening, insulator means interposed between said ears and said terminal member, and a plurality of clamping screws, one for each of said insulator members and said ears, each of said screws clamping to its ear and insulator member, said terminal member, said insulator means and said core, said screws being screw threaded into their respective insulator members.

2,162,330
DIRECT LIGHTING LUMINAIRE
Leroy C. Doane, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application May 29, 1936, Serial No. 82,497
Renewed March 12, 1938
4 Claims. (Cl. 240—78)

1. A luminaire comprising a downwardly opening annular reflector having a normally vertical axis, an axially disposed long light source ex-

tending from the top of the reflector nearly to the plane of the bottom opening, a short light diffusing ring about the lower end of the source, the lower edge of the ring being positioned in relation to the lower terminal of the source so as to cut off direct light at a predetermined angle below the horizontal and permit the escape of a wide cone of direct light downwardly therethrough, the length of the ring being sufficient to extend to a height to intercept upwardly slanting lines drawn from the lower edge of the re-



flector parallel with the line of cut off of the lower edge of the ring but insufficient to screen the reflector from direct light from the upper part of the source, whereby the direct light emitted from the source above the ring and passing between the mouth of the reflector and the top of the ring is more nearly vertical than the most widely divergent light in the cone of direct light emitted below the ring, and a plurality of reflector carried members to which the ring is detachably secured.

2,162,331

QUICK-SETTING PRINTING INK AND PROCESS OF MAKING SAME

Carleton Ellis, Montclair, N. J., assignor to Ellis Laboratories, Inc., a corporation of New Jersey

No Drawing. Application April 13, 1938, Serial No. 201,809
9 Claims. (Cl. 260—42)

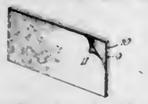
1. A quick-drying printing ink composition comprising a binding agent consisting of a heat-reactive aminoplast resin, pigmenting material, and a liquid vehicle therefore in proportion sufficient to render said composition a fluent mass having thixotropic properties at room temperature.

2,162,332

SAND BLASTING STENCIL

Carl E. Frick, Chicago, Ill., assignor, by mesne assignments, to Van Cleef Bros., Chicago, Ill., a partnership consisting of Noah Van Cleef, Felix Van Cleef, and Paul Van Cleef

Application October 28, 1937, Serial No. 171,452
8 Claims. (Cl. 41—39)



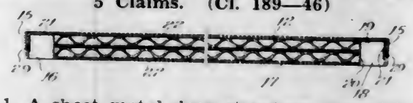
1. As a new article of manufacture, a stencil designed for use in cutting letters, symbols or designs on a surface by way of sand blasting and comprising a sand resistant sheet adapted to be placed against the surface and upon proper shaping thereof to control the sand blast so that it forms or cuts the desired letters, symbols or designs on said surface and formed of tough vulcanized rubber and an admixture of substantially an equal amount by weight of glue whereby the sheet is rendered substantially inelastic, and an adhesive coating on the back face of the sheet for holding the sheet in adhesively connected relation with said surface.

2,162,333

METAL CABINET DOOR

Albert Golden, Chicago, Ill., assignor to Interstate Metal Products Company, Chicago, Ill., a corporation of Illinois

Application February 2, 1938, Serial No. 188,264
5 Claims. (Cl. 189—46)



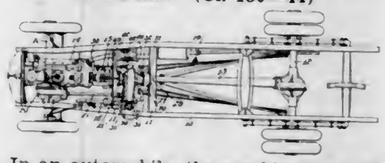
1. A sheet metal door structure comprising a facing panel having flanges formed at its edges and extending inwardly substantially perpendicular thereto the edges of said flanges terminating in overlapped seams, a liner for said panel formed with channels on opposed edges thereof, the said liner being positioned within the flanges of said panel so that the outer flanges of the channels lie against the flanges of the panel and the seamed edges thereof with the webs of the channels lying against the inner surface of the panel, the major body portion of the liner being held in spaced relation to the panel, the said outer flanges of the liner lying against the panel flanges and overlapping their seams and being united by means of spot welds.

2,162,334

POWER SHAFT UNIT FOR FOUR-WHEEL DRIVE

Arthur W. Herrington, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana

Application February 25, 1935, Serial No. 7,976
10 Claims. (Cl. 180—44)



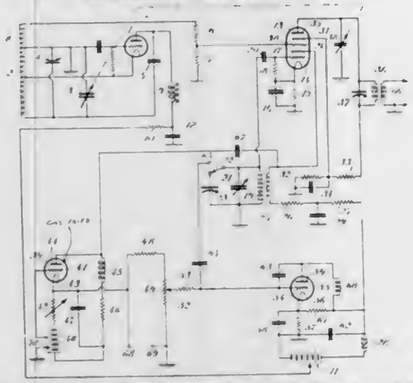
1. In an automobile, the combination with the chassis frame and substantially medially located motor, of a rear driving wheel axle supporting the rear end of the frame, a substantially medial driving connection between the motor and said axle embodying a speed and direction changing transmission gear, a power take-off interposed between said transmission gearing and the rear axle, with the power delivery element thereof offset laterally relative to the medial vertical plane of the frame, a driving wheel front axle supporting the front end of the chassis frame, said front axle having a radially enlarged intermediate casing housing the differential of said axle, having less lateral extent to one side of its power-receiving shaft than the other and positioned with that lesser projecting portion adjacent the motor, and a power shaft connecting said front axle with the power delivery element of said power takeoff.

2,162,335

VACUUM TUBE SWEEP CIRCUIT

Frederick N. Jacob, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Application February 10, 1936, Serial No. 63,142
10 Claims. (Cl. 250—36)



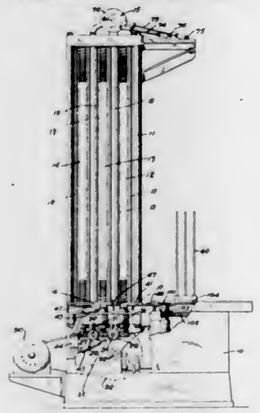
9. An oscillation generator including means for normally developing oscillations at a predetermined frequency, auxiliary means for effecting cyclic deviations of said oscillations from said predetermined frequency, and means for continuously adjusting the effectiveness of said auxiliary means to adjust the range of said deviations without affecting said predetermined frequency.

2,162,336

COMPOUND DRIER FOR COATED DISKS

Charles A. Johnstone, San Francisco, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada

Application September 7, 1937, Serial No. 162,704
7 Claims. (Cl. 34—11)



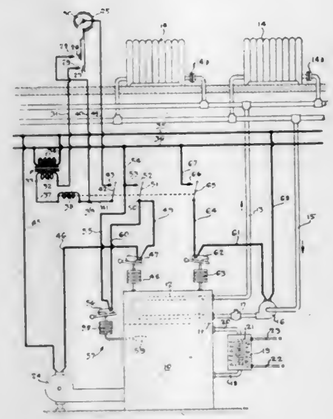
1. In a sheet feeding machine adapted to handle coated sheets which, if scratched, are rendered less valuable, the combination of a reciprocating member, a sheet engaging finger hinged thereto, means for controlling said finger on its non-working stroke to swing it into a position where it cannot contact any adjacent lying sheet, said means releasing said finger substantially at the beginning of the working stroke to engage edgewise a single one of said sheets at a time.

2,162,337

HEATING SYSTEM

John P. Kriechbaum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application September 24, 1936, Serial No. 102,334
11 Claims. (Cl. 237—8)



1. In a heating system in combination, a boiler, water in said boiler, a burner to heat said water, a coil in said boiler adapted to be heated by steam from said water in said boiler, radiators, a riser from said coil to said radiators, a return line from said radiators to said coil, a circulator in said return line, a check valve in said return line, water in said coil, radiators, riser and return line, a tank, a coil in said tank for heating domestic hot water, pipes from said tank to said boiler, means responsive to boiler temperature for controlling said burner to maintain said water in said boiler at a substantially constant temperature below the boiling point, a room thermostat adapted to energize said burner to generate steam to heat said first mentioned coil and hence said water therein, means responsive to steam pressure in said boiler and a call for heat by said room thermostat to energize said circulator, the arrangement being such that said circulator cannot be energized upon a call for heat by said room thermostat until a predetermined steam pressure in said boiler is achieved, and second means responsive to steam pressure in said boiler to positively deenergize said burner, said second means adapted to respond to a higher boiler pressure than said first mentioned pressure responsive means.

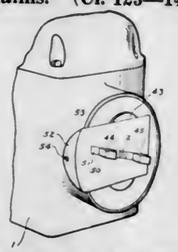
11. In a heating system in combination, a boiler, water in said boiler, a burner to heat said water, a coil in said boiler above the water and adapted to be heated by steam from said water, radiators, supply and return pipes connecting said radiators to said coil, a heating medium in said coil, radiators, and pipes, a circulator in one of said pipes, a circuit for said burner, a circuit for said circulator, a room thermostat, means operated by said thermostat for closing a switch in each circuit, means responsive to boiler water temperature for energizing said burner independently of said room thermostat to maintain said boiler water above a relatively high value less than the boiling point, and means for deenergizing said burner when the steam pressure within the boiler exceeds a predetermined high value.

2,162,338

SET-UP DEVICE

Carl B. Larsen, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation

Application September 22, 1938, Serial No. 231,179
10 Claims. (Cl. 123—149)



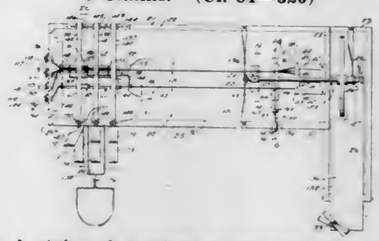
1. In combination with a timed instrument having a frame portion and a coupling element, and an engine having a driving element, interengaging means on said coupling and driving elements, and a locking device engaged with the interengaging means on the coupling element for locking the locking device and element immovably together, and means for anchoring the locking device to the instrument for holding said coupling element in predetermined position until the locking device is removed.

2,162,339

MUSICAL INSTRUMENT

Willie C. L. Morrison, Evergreen, Ala., assignor of one-half to W. F. Kelley and J. E. Kelley, Evergreen, Ala.

Application March 29, 1938, Serial No. 198,740
9 Claims. (Cl. 84—320)



1. A stringed musical instrument including a set of strings having the major portion of their length arranged in superposed spaced aligned relation, a single string having the major portion of its length disposed in parallel spaced relation with respect to one of the strings of said set, a rotatable pick arranged between said single string and said set of strings and including a radially disposed picker finger of a length for picking said single string and then successively picking the strings of said set from the uppermost to the lowermost string of the said set during the rotation of the pick, spaced frets arranged below and for coaction with said single string, other spaced frets arranged below and for coaction with the strings of said set, and selectably operable spring controlled pivotally suspended fretting structures arranged over said single string and set of strings and each including fingers for depressing strings against frets.

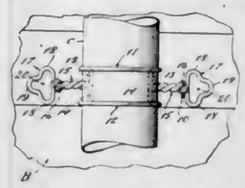
2,162,340

BRACKET FOR ATTACHING CONDUITS TO WALLS

Joseph A. Peterman, New York, N. Y.

Application October 8, 1937, Serial No. 167,996
1 Claim. (Cl. 248—74)

As a new article of manufacture, an attaching bracket for a conduit of the class described; said bracket comprising a brace of wire spans each so fabricated as to conform to the contour of the conduit and fit snugly thereupon in partially encircling circumferential relationship, said spans being spaced apart lengthwise of the major axis



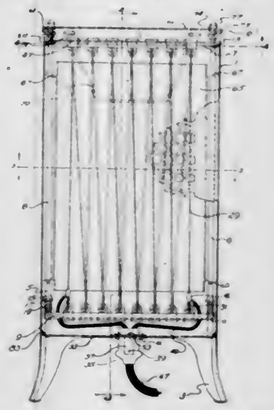
of the conduit, and the wire of each span being bent near each end of the span toward the corresponding wire end of the other span; said wire ends being associated in interlocking engagement to form an attaching member common to both spans at each end thereof.

2,162,341

ELECTRIC HEATER

Frederick B. Adam, St. Louis County, Mo., assignor to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri

Application February 4, 1937, Serial No. 124,159
2 Claims. (Cl. 219—34)



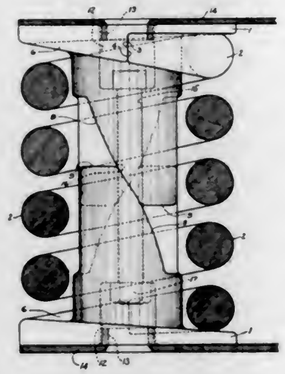
1. In an electric heater, a casing provided with a perforated front, side and rear walls, and legs, a heater unit assembly comprising two vertical side rods, a perforated plate secured to the bottoms of the side rods and positioning them in the casing, a channelled bridging member supported on the side rods near the top and a channelled bridging member supported on the side rods near the bottom thereof, insulators supporters in slots in the bridging members, a heater element wire strung between the insulators of the upper and lower bridging members, a reflector provided with formed lugs at the top and bottom thereof serving to support the reflector on the vertical rods, a spring on each vertical rod cooperating with one of the bridging members to move it away from the other bridging member to maintain a tension on the heating element, a perforated cover supported by the casing and provided with openings to receive the vertical rods, and means to cooperate with threaded portions on the vertical rods to draw up the rods and secure the bottom plate against lugs on the casing.

2,162,342

BOLSTER SPRING

Harley E. Anderson, Chicago, Ill., assignor of one-half to W. F. White, Fort Worth, Tex.

Application November 4, 1938, Serial No. 238,743
7 Claims. (Cl. 267—9)



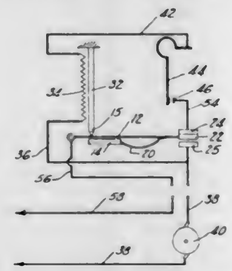
1. In a bolster support, a helical spring and a pair of members, each adjacent one end of the spring, and rotatable relative to one another about the axis of said spring, the latter seating on each member, a shoulder on each member in opposed relation to the respective end of said spring, and engageable therewith, a pair of open faced inclined surfaces on each member, said surfaces being 180° apart relative to said axis, the surfaces on one member being engageable with those on the other to rotate the members when they are moved towards each other as the spring is placed under compression.

2,162,343

CONTROL MECHANISM

Kemper P. Brace, South Bend, Ind., assignor to International Engineering Corporation, Chicago, Ill., a corporation of Illinois

Application February 18, 1937, Serial No. 126,329
6 Claims. (Cl. 236—68)



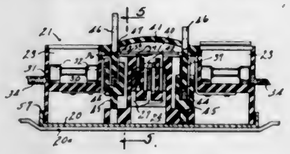
1. Control mechanism comprising a double-acting snap-action switch having an actuating member operable to actuate the switch to close one or the other of two circuits, delayed-action electric means for operating said member, and an operating circuit which constitutes the said one circuit closed by said switch when in one position and which has a shunt circuit around the switch which constitutes the said other circuit closed when the switch is in its other position and which shunt circuit includes said electric means and a control switch operated independently of the first switch, whereby the shunt circuit acts as a relay for closing the operating circuit when the control switch is closed and then automatically periodically opening and closing the operating circuit while the control switch remains closed, and for opening the operating circuit when the control switch is opened.

2,162,344

PANEL BOARDS AND PARTS THEREOF

William H. Frank and Lawrence E. Fisher, Detroit, Mich.

Original application December 26, 1935, Serial No. 56,227, now Patent No. 2,103,069, dated December 21, 1937. Divided and this application March 8, 1937, Serial No. 129,651
2 Claims. (Cl. 175—369)



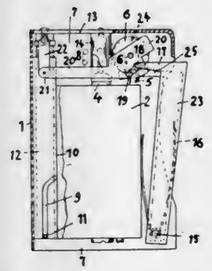
2. A panel unit having a portion provided with open back slots in which are bus bars, pairs of alined contacts within the unit, with one pair for each branch circuit conductor, a front manipulable switch for each pair of contacts for interconnecting the two contacts of each pair, and a removable cover portion having a strap connecting one contact of one pair with one contact of another and equipped with a bus bar engaging prong, each switch including a slide of insulation mounting the movable contact and having rearwardly disposed portions encompassing each free portion of the stationary contacts, the interiors of such portions to be evacuated on switch opening.

2,162,345

POCKET PYROPHORIC LIGHTER

Arthur Goldberger, Vienna, Austria, assignor to Arnold Liebling, Rockford, Ill.

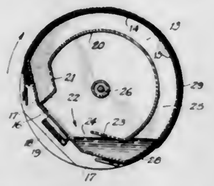
Application July 27, 1937, Serial No. 155,848
2 Claims. (Cl. 67—7.1)



1. In a pyrophoric lighter having an inflammable wick and a pyrophorous body, a cover enclosing said inflammable wick in the closed position of the lighter, a friction wheel bearing against said pyrophorous body, a movable actuating member and means connected with said member, said cover and said friction wheel and operable upon the actuation of said member to first move said cover axially in respect to the position of the wick in the lighter, then move said

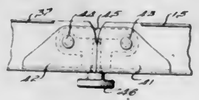
cover laterally outwards to its open position and then rotate said friction wheel to cause the production of an igniting spark.

2,162,346
INKING MECHANISM FOR DUPLICATING MACHINES
Sherlie E. Gregory, Aurora, Ill., assignor to The Heyer Corporation, Chicago, Ill., a corporation of Illinois
Application July 29, 1938, Serial No. 221,874
5 Claims. (Cl. 101—119)



1. In a duplicating machine, a rotary drum provided around a portion of its periphery with a perforated wall, the remainder of the wall being imperforate, an inking pad surrounding the perforated portion of the drum wall and an inner partition having one of its ends in closing relation with respect to the imperforate portion of the drum wall and having its other end in open relation with respect thereto and configured to afford an inner reservoir and an annular inking space adjacent to the perforated portion of the drum wall and adapted when the drum is rotated in one direction to discharge ink from the reservoir into the inking space and adapted when the drum is rotated in the opposite direction to retain the ink against entering the inking space.

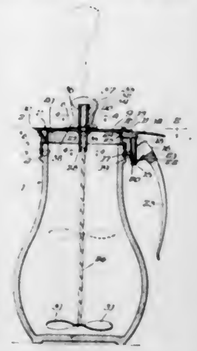
2,162,347
CONVERTIBLE TOP FOR VEHICLE BODIES
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, a corporation of Delaware
Application August 30, 1935, Serial No. 38,591
2 Claims. (Cl. 296—121)



1. In a convertible top structure, a pair of channel section side rail members, a link interconnecting said members, said link being pivotally connected to the base of each of said channel members and a lock screw threaded into said connecting link and having a shoulder adapted to engage the side walls of the adjacent ends of said rail members to secure them in locked end to end relation.

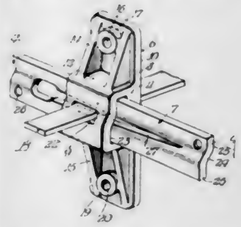
2,162,348
LIQUID DISPENSER AND MIXER
Edward Richard Hacmac, Hollywood, Calif., assignor to Na-Mac Products Company, a corporation of California
Application October 21, 1938, Serial No. 236,131
3 Claims. (Cl. 259—117)

1. In a device of the kind described, a fluid container having a cover and spout, a movable closure for said spout, a shaft extending through said closure and cover, means in the cover for rotating said shaft, means on the shaft for agitating the fluid, and cooperating parts on the



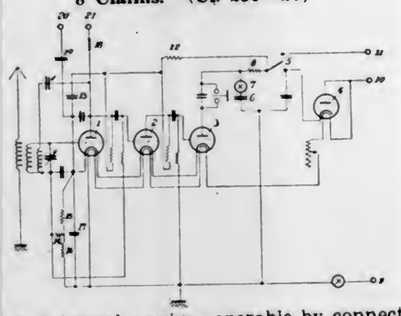
shaft and closure for locking the shaft against longitudinal movement when the closure is removed from the spout.

2,162,349
BAND CLAMP
Bror Hillberg, Chicago, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application March 6, 1937, Serial No. 129,303
6 Claims. (Cl. 24—19)



6. A clamp adapted for application to a band having one end thereof projecting through and beyond a form, and comprising a bracket adapted to fit against the form and provided with a slot therethrough for the projecting end of the band and a second slot extending transversely therethrough and having the central portion thereof intersecting and is tilted at approximately an angle of 45° with respect to the band slot and the side portions thereof disposed in laterally offset and parallel relation and at right angles to said band slot, and an elongated stamping formed wedge member of the same cross-sectional design as the second slot extending longitudinally through and slidably mounted in said second slot and having a longitudinally extending V-shaped band engaging slot in the central portion thereof in registry with the band slot of the bracket and having the faces thereof that define or form the sides of said V-shaped band engaging slot extending at right angles to the side faces of its side portions, and adapted in response to sliding movement of the wedge member in one direction to grip the side faces of the band at different points and with a wedging action and to hold the bracket in connected relation with and against movement relatively to the band.

2,162,350
UNIVERSAL RECEIVER WITHOUT TRANSFORMER
Paul Kapteyn, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany, a corporation of Germany
Application August 3, 1933, Serial No. 683,423
In Germany August 4, 1932
8 Claims. (Cl. 250—27)



5. A universal receiver operable by connection with either alternating current or direct current mains, said receiver being provided with smoothing means consisting of ohmic resistances and condensers, said receiver further including, in the lead to one of said condensers, a signal lamp acting as a guard device and lighting in the case of incorrect connection of the receiver with the direct current mains.

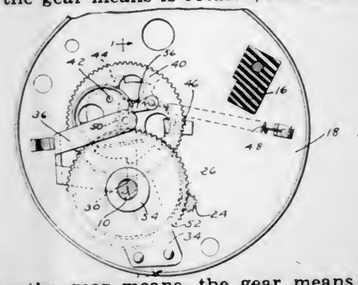
2,162,351
COMBINED ROAD AND RAIL VEHICLE AND TRACK SYSTEM THEREFOR
David W. Main, Detroit, Mich., assignor to Transportation Systems, Inc., a corporation of Oklahoma
Application May 18, 1936, Serial No. 80,383
8 Claims. (Cl. 105—215)



1. In a track system for a combined road and rail vehicle having dual wheels including a flanged rail-engaging portion and a somewhat larger road-engaging portion, the combination with main rails, turnout rails, and a switch point associated therewith, of a ramp positioned along one of said main rails and traversing said turnout rails to lift the road portion of an associated wheel to the level of said turnout rails, a guard rail positioned adjacent the other of said main rails at each end of said switch point, said guard rail and said switch point forming with said other main rail a guide slot to receive the flanged element of a corresponding vehicle wheel and guide the same during the passage of said vehicle over said ramp.

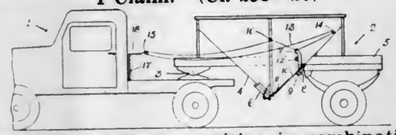
2,162,352
ESCAPEMENT MECHANISM
Andrew O. McCollum, Detroit, Mich., assignor to Bendix Home Appliances, Inc., Detroit, Mich., a corporation of Delaware
Application September 27, 1937, Serial No. 165,795
8 Claims. (Cl. 74—124)

1. An escapement mechanism for a timer or the like comprising a driven gear, a carrier pivotally mounted for movement about a center adjacent the gear, rotatable gear means having a cam device rigid therewith and mounted on said carrier and drivably meshing with said driven gear, a stationary follower, yielding means holding said cam device against said follower and which causes oscillation of the carrier slowly in one direction and rapidly in the other direction when the gear means is rotated, and means for



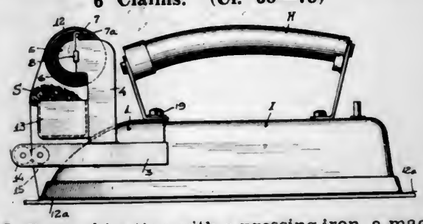
driving the gear means, the gear means being constructed and arranged to roll on the driven gear without turning it when the carrier is oscillated slowly in said one direction and being provided with means holding it against rolling on the driven gear thereby to serve as a ratchet to turn the driven gear when the carrier is oscillated rapidly in said other direction.

2,162,353
HOPPER TRAILER
Jesse D. McVicker, Lodi, Ohio, assignor of one-tenth to James Lowry, Lodi, Ohio
Application July 19, 1937, Serial No. 154,417
1 Claim. (Cl. 298—27)



A hopper-trailer comprising in combination a chassis, a hopper body supported thereby, a lateral opening in the bottom of said body, a gate normally covering said opening, Z bars secured to either end of said gate, means cooperatively associated with said Z-bars to operate and maintain said gate in either an open or closed position, and means to actuate said first named means from a point remote from said body.

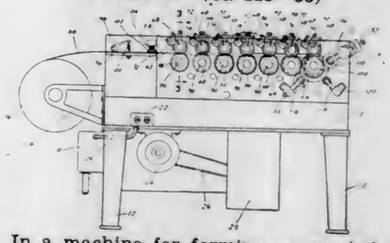
2,162,354
PRESSING IRON
Max M. Newman, New York, N. Y.
Application September 23, 1937, Serial No. 165,252
6 Claims. (Cl. 38—78)



5. In combination with a pressing iron, a magazine roll connected to said pressing iron above a working face of said iron, a pressing cloth connected to said magazine roll above said working face, said iron having spring means opera-

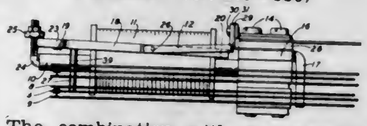
tive to turn said roll and to wind up the pressing cloth thereon, said pressing cloth being of sufficient length to extend under the working face of said iron.

2,162,355
CONDUIT FORMING MECHANISM
Hale W. Parrish, South Bend, Ind., and Lawrence G. Dickeson, Niles, Mich., assignors to National Standard Company, Niles, Mich., a corporation of Michigan
Application October 26, 1933, Serial No. 695,270
16 Claims. (Cl. 113—35)



1. In a machine for forming corrugated conduits or the like having means for forming a corrugation longitudinally of a metal strip with the strip substantially straight, a rotatable but axially fixed mandrel having in a radial plane a sectional shape at its edge like that of the transverse section of the formed strip and which is arranged in line with the corrugated strip and over which the strip passes and which is smaller in diameter than the conduit formed thereon, a bending roller engaging the strip as it passes over the mandrel, a member carrying the bending roller and which is adjustable to move the roller toward and from the mandrel, and an angularly-adjustable support for said member, whereby the bending roller may be adjusted about the mandrel for winding conduits of different diameters which are substantially greater than the diameter of the mandrel.

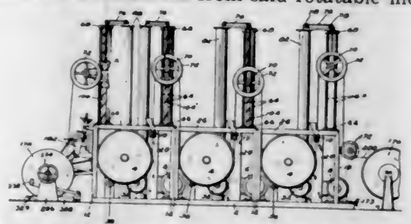
2,162,356
RELAY
Robert L. Peek, Jr., Townley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 1, 1937, Serial No. 161,915
3 Claims. (Cl. 175—336)



1. The combination with an electromagnet having a fixed core, of a U-shaped armature bracket hinged at the rear of said core, an armature rotatably mounted midway between its front and rear to the arms of said bracket and along an axis intermediate the ends thereof and contact operating studs carried by the free ends of said bracket.

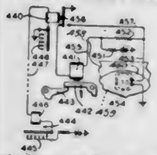
2,162,357
DRAWING OF WIRE
Robert C. Pierce, Niles, Mich., assignor to National Standard Company, Niles, Mich., a corporation of Michigan
Application March 14, 1936, Serial No. 68,856
22 Claims. (Cl. 205—14)

1. An apparatus for treating material in strip or wire form which is being delivered at a predetermined rate, said apparatus comprising a main frame, an auxiliary frame movably mounted on the main frame for vertical movement thereon, a weight connected to said auxiliary frame and urging it upwardly on the main frame, an angularly-movable member rocked by vertical movement of said auxiliary frame mechanism for feeding said material mounted on said frames and including a rotatable member journalled on the auxiliary frame and about which the material passes, a capstan mounted on a horizontal axis on the main frame below the auxiliary frame and receiving the material from said rotatable mem-



ber, means to drive said capstan including a variable speed transmission mounted on the main frame and having a power shaft, a transmission shaft, and a variable speed driving connection between said shafts, and a mechanical connection between said angularly-movable member and said variable speed driving connection by which movement of the auxiliary frame induced by the change of tension to which said material is subjected actuates said variable speed driving connection to produce a compensating change in the speed of said capstan.

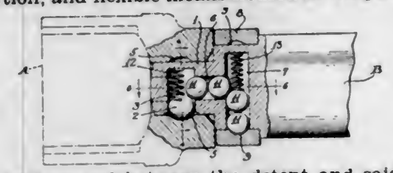
2,162,358
ORIENTATION INDICATING DEVICE
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application December 30, 1935, Serial No. 56,719
4 Claims. (Cl. 178—69)



3. In an orientation indicating device, a signal responsive line relay, a telegraphic recorder magnet responsive to contacts in said line relay, a stroboscopic device responsive to movement of the armature of said magnet, a lamp adjacent to said stroboscopic device, an energizing circuit for said lamp comprising a battery, series resistances and said lamp, and two branching conductors from said lamp circuit to front and back contacts respectively of said line relay and forming closed shunts for said lamp when the armature of said relay is in attracted or retracted position but not when said armature is in transit, said magnet included in one of said branching conductors.

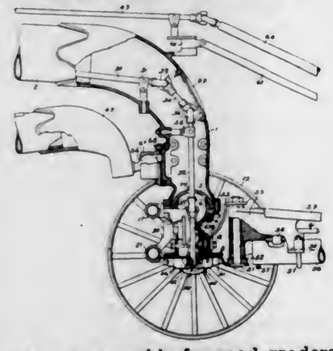
2,162,359
LOCK FOR SOCKET WRENCHES, ETC.
Harry A. Rhinevault, Chicago, Ill., assignor to Armstrong Bros. Tool Co., Chicago, Ill., a corporation of Illinois
Application August 22, 1936, Serial No. 97,352
11 Claims. (Cl. 287—119)

11. A tool handle having a detent, a locking ring rotatably encircling the handle at a position relatively remote from said detent and having an eccentric portion, a deviating passage within the handle between said detent and said eccentric portion, and flexible means housed in the passage



and interposed between the detent and said eccentric portion for transmitting pressure from said portion to said detent.

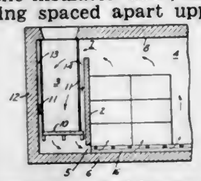
2,162,360
ROAD GRADER
George D. Shaeffer, Bucyrus, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 15, 1937, Serial No. 142,774
17 Claims. (Cl. 280—95)



1. In a front assembly for road graders, a substantially vertical hollow front post, an axle structure, a hollow ball and socket joint connecting said axle structure with said front post, the socket part of said ball and socket joint being secured to said front post and having a relatively large aperture below its center and a relatively small aperture above its center, and the ball part of said ball and socket joint having an aperture above its center larger than the upper aperture of said socket element and a downwardly extending portion mounted on said axle structure, a lower shaft mounted on said axle structure for rotation on an axis extending through the center of said ball and socket joint, an upper shaft extending downwardly through said upper aperture in said socket element and having sufficient clearance within said upper aperture to permit a substantial flow of lubricant from the interior of said hollow front post into the interior of said hollow ball and socket joint, and means within said hollow ball and socket joint universally connecting the lower end of said upper shaft with the upper end of said lower shaft.

2,162,361
REFRIGERATOR CAR FLOOR RACK
Vinton E. Sisson, Winnetka, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application January 24, 1938, Serial No. 186,516
4 Claims. (Cl. 105—375)

1. In a refrigerator car, the combination of an insulated floor, spacers supporting a foraminous floor above the insulated floor, a space between said floors, ice associated with other elements of the car to induce an air current in said space upon melting thereof and so that the melted ice drains upon the insulated floor, said foraminous floor comprising spaced apart upper and lower



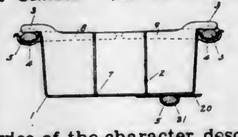
apertured sheets connected by spaced apart substantially parallel perforated web members to provide a series of parallel flues extending in the direction of movement of the air current, the apertures in the upper sheet being over certain of said flues and the apertures in the lower sheet being under other of said flues.

2,162,362
ASYMMETRICAL CONDUCTOR
George O. Smith, Bloomfield, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y., a corporation of New York
Application October 11, 1938, Serial No. 234,377
12 Claims. (Cl. 175—366)



1. An asymmetrical conducting device comprising a metallic body having an integral layer of an oxide of said body thereon, said body comprising copper to which has been added one of the materials of the group comprising lead oxide, thallium oxide and thallium.

2,162,363
ICE CUBE TRAY FOR REFRIGERATORS
Lester E. Stipe, Portland, Oreg.
Application July 30, 1934, Serial No. 737,583
12 Claims. (Cl. 62—108.5)

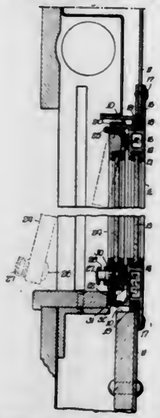


1. In a device of the character described an ice tray, a groove formed in a top edge of the tray that is adapted to contain an elliptical torsion rod, spaced grid lugs overhanging and immediately adjacent the groove, an elliptical section torsion rod in the groove and means for twisting the torsion rod.

2,162,364
WINDOW CONSTRUCTION
Christian M. Verhagen, Chicago, Ill., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application June 10, 1935, Serial No. 25,733
6 Claims. (Cl. 189—64)

1. In car window construction, a fixed sash which is provided about its periphery with a groove and flanges on opposite sides of the groove, one of the flanges projecting outwardly flush with one face of the sash for lapped association with the sheathing of the car about the window opening, and the other projecting laterally from the other face of the sash at right angles to the

first mentioned flange to form a supplemental frame, packing material in the groove for sealed engagement with the edge of the window opening, a movable sash which is hinged to the fixed sash within the frame flush with the projecting face of



the latter, compressible packing material between the opposed faces of the sash, and latching means on the movable sash coacting with the frame carried by the fixed sash for holding the two sash tightly together with the packing material compressed therebetween.

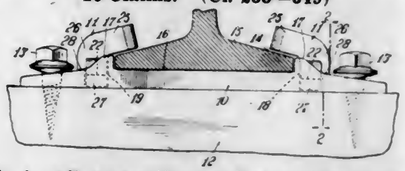
2,162,365

RAILWAY TIE PLATE AND CLIP

George T. Willard, Evanston, Ill.

Application November 4, 1937, Serial No. 172,769

16 Claims. (Cl. 238—349)



1. A rail supporting and retaining structure comprising, in combination, a tie plate member having a rail seat and formed at one side of the seat with an opening through the plate, the lower portion of which opening is enlarged to provide an undercut shoulder; and a spring clip formed intermediate its ends with a portion for overlying the base flange of a rail and with a pair of legs adapted to be flexed into resilient pressure engagement with spaced vertical faces on the plate to maintain the clip in suitable operative position, one of the legs being provided with an angularly disposed end adapted to snap into interlocking engagement with the said undercut shoulder.

2,162,366

ACTIVATION OF COMPRESSED WOOD

Maurice E. Barker and Robert S. Brown, Edgewood, Md.

No Drawing. Application April 27, 1932, Serial No. 607,901

15 Claims. (Cl. 252—3)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

13. A method of forming activated charcoal, comprising the steps of kiln-drying non-comminuted wood blocks, impregnating the blocks with a dehydrating agent, redrying the blocks in air, highly compressing the impregnated blocks to a density of 1.0 or more, carbonizing the blocks by heating to approximately 200° C. in air, followed by heating at gradually increasing higher temperatures in carbon dioxide gas, cooling the carbonized material out of contact with air, crushing the carbonized material, activating the crushed particles in a stream of preheated carbon dioxide at 800–900° C. for two hours, and cooling the particles out of contact with air.

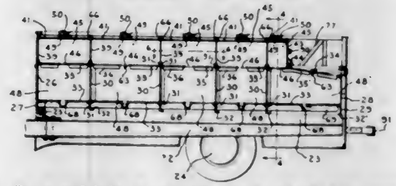
2,162,367

COMBINATION TANK AND DELIVERY BODY

Ferdinand C. Buchanan, Kansas City, Mo., assignor to Andrew A. Kramer, Kansas City, Mo.

Application December 9, 1937, Serial No. 178,923

8 Claims. (Cl. 280—5)



2. In a vehicle, a combination tank and freight body, comprising a lower compartment tank portion and an upper freight carrying portion, said tank portion being wide and shallow and being provided with transverse partitioning means dividing the same into a plurality of compartments, said compartments having top walls inclined transversely of said body and said tank body having an upward extension thereon extending lengthwise of said tank portion and intersecting each of said compartments at the highest portion of the top walls thereof, said compartments communicating with said upward extension, and each compartment having filling means in said extension.

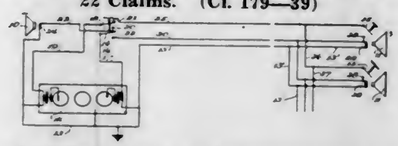
2,162,368

COMMUNICATION APPARATUS

Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin

Application June 29, 1937, Serial No. 150,951

22 Claims. (Cl. 179—39)



1. A multiple station intercommunication system, including in combination, voice receiving and transmitting means comprising a loudspeaker adapted to function as a microphone and a loudspeaker at each station, an amplifier, a pair of inter-station conductors adapted selectively to be connected to the input and output of the amplifier, selectively operable means at a first station operable to a first position for connecting the voice receiving and transmitting means thereat to the output and the first conductor to the input of said amplifier and to a second position for connecting the voice receiving and transmitting means to the input and the second conductor to the output of said amplifier, and means at another of said stations for connecting the voice receiving and transmitting means thereat to the input of said amplifier through said first mentioned conductor and said selectively operable means when the latter connects the voice receiving and transmitting means at the first station to the output of said amplifier.

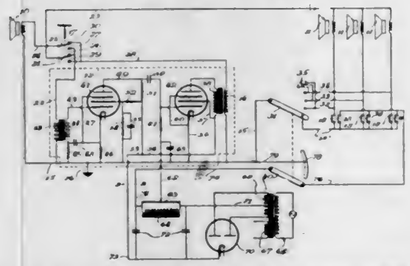
2,162,369

COMMUNICATION SYSTEM

Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin

Application July 19, 1937, Serial No. 154,344

23 Claims. (Cl. 179—1)



1. A two-station intercommunicating system, including in combination, voice receiving and transmitting means at each station, an amplifier, means including a reversing switch at one station for selectively connecting the voice receiving and transmitting means thereat directly to the output and input of the amplifier and conditioning the voice receiving and transmitting means at the other station for connection to the input and output of the amplifier, and control means at the second station for completing the connection of the voice receiving and transmitting means at said station to the amplifier.

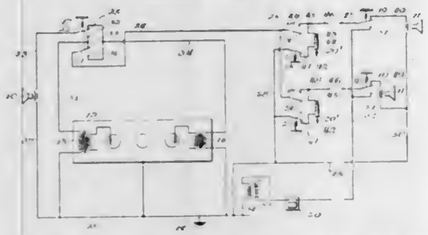
2,162,370

COMMUNICATION SYSTEM

Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin

Application July 19, 1937, Serial No. 154,345

13 Claims. (Cl. 179—1)



1. In an intercommunication system, the combination including a pair of remotely located stations, means including plural position switches at one station for controlling a communication circuit and a signal circuit between the two stations, said switches being operable to a position in which the communication circuit is open and the signal circuit conditioned for closure, and means including a control switch at the other station normally closing the communication circuit thereat and operable to a displaced position for completing said signal circuit.

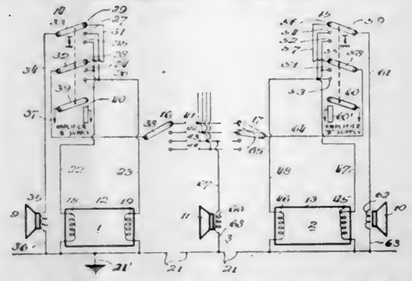
2,162,371

COMMUNICATION SYSTEM

Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin

Application October 29, 1937, Serial No. 171,627

23 Claims. (Cl. 179—1)



1. In an intercommunication system, the combination including a plurality of stations remote from each other, voice receiving and transmitting means and an amplifier having input and output connections at each station, interstation conductors between stations, and means at each station for controlling the connections of said voice receiving and transmitting means and interstation conductors to said amplifier and to each other, said means being operable into a first position in which the interstation conductor is connected to said voice receiving and transmitting means, to a second position in which the interstation conductor and voice receiving and transmitting means are connected to the input and output, respectively, of the amplifier, and to a third position in which the connections of the voice receiving and transmitting means and interstation conductor to the amplifier are reversed.

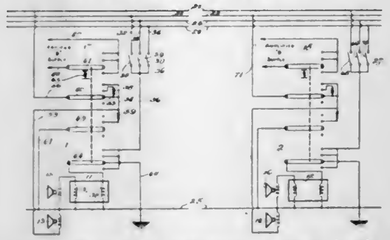
2,162,372

COMMUNICATION SYSTEM

Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin

Application November 1, 1937, Serial No. 172,103

27 Claims. (Cl. 179—1)



1. The method of preventing feed back in a multiple station intercommunication system in which each station is provided with a separate voice receiving and transmitting means adapted to be connected in the system so that the transmitting means at one station is connected to the receiving means at another for simultaneous two-way communication through an interstation circuit, and with amplifier means in circuit between associated transmitting and receiving means adjusted to amplify transmitted messages to a volume sufficiently high to create feed back if the stations are connected for simultaneous two-way transmission, which comprises operating the receiving means at a station at reduced volume

when both the receiving and transmitting means at that station are connected for transmitting to and receiving from another station simultaneously through said interstation circuit, and at high volume when the receiving means alone at a station is connected to said circuit for reception.

2,162,373

CATALYTIC POLYMERIZATION OF ACETYLENE

Albert S. Carter, Wilmington, and Howard W. Starkweather, New Castle County, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 2, 1937, Serial No. 151,644

6 Claims. (Cl. 260—678)

6. A process of producing nonbenzenoid polymers of acetlyene which comprises catalyzing the polymerization of acetylene with ammonium chloride and cuprous chloride in the molecular proportion of

$$\frac{\text{mols of ammonium chloride}}{\text{mols of cuprous chloride}}$$

equals between

$$\frac{1.7}{1} \text{ and } \frac{2.2}{1}$$

and water in the amount of 30 to 50% by weight.

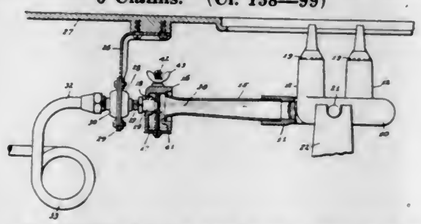
2,162,374

GAS BURNER

John E. Chambers, Shelbyville, Ind.

Application October 18, 1937, Serial No. 169,537

6 Claims. (Cl. 158—99)



1. In combination, a gas burner having a hollow body portion provided with discharge ports and a horizontally extending mixture-supply conduit, supporting means engaging said body portion, said supply conduit being provided at its outer end with an axial opening and with an additional opening for the admission of air, a gas-supply spud closely received in said axial opening, and means supporting said spud and permitting swinging movement thereof in a vertical plane to permit disengagement of said burner from its supporting means.

2,162,375

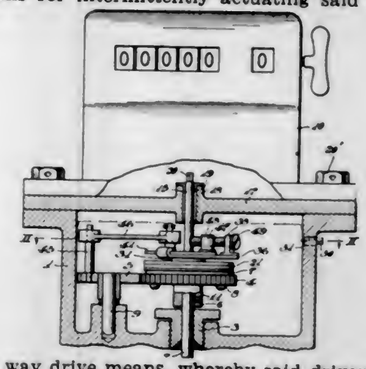
MECHANICAL MOVEMENT

Horace Chrisman, Edgewood, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 13, 1935, Serial No. 26,435

12 Claims. (Cl. 74—117)

1. In a mechanical movement, a driving shaft, a driven shaft fixedly journalled and concentric therewith, a member rotated by the driving shaft, continuously rotated one-way drive means supported by said member and having a driving engagement with said driven shaft, a separate second one way drive means for imparting rotary impulses in one direction to said means, and means for intermittently actuating said second



one way drive means, whereby said driven shaft is rotated by the faster moving one-way drive means.

2,162,376

CEREAL PRODUCT AND METHOD OF MAKING THE SAME

Ferdinand A. Collatz, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware

No Drawing. Application June 18, 1938, Serial No. 214,569

11 Claims. (Cl. 99—82)

1. A process of producing an edible cereal product which comprises forming a dough by the addition of water to a farinaceous material, cooking the dough at a temperature approximating the boiling point of water, forming the cooked dough into pellets, drying the pellets to a moisture content substantially within the range of 11% to 16% by weight, subjecting the pellets to a pressure substantially within the range of 80 to 110 pounds per square inch at temperatures substantially within the range of 375° F. to 450° F., suddenly releasing the pressure and thereby permitting the pellets to expand in size, and then drying the expanded product.

4. An edible cereal product formed from cooked, expanded, farinaceous dough; the product having a fragile vesicular internal structure of high friability; the vesicles thereof varying widely in size and being irregularly distributed; the product also having a friable and relatively dense and hard outer layer which forms a substantially continuous covering.

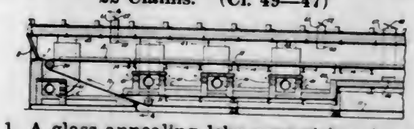
2,162,377

GLASS ANNEALING LEHR

Carroll Cone, near Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of New York

Application November 26, 1934, Serial No. 754,799

22 Claims. (Cl. 49—47)



1. A glass annealing lehr comprising, in combination, a tunnel wherethrough the glassware is passed for annealing, an apertured ware-supporting platform above the floor of said tunnel, a group of nozzles along each side wall of the tunnel for a portion of the length of the latter for discharging heating gases into the tunnel, a second group of nozzles along said walls of another portion of the tunnel for discharging cooling gases into the tunnel, all of said nozzles being below the level of said platform, and means comprising an exhaust duct in direct communication with the tunnel below said platform and between the two groups of nozzles for venting gases from the tunnel.

18. In combination, a tunnel wherethrough glass may be passed for annealing, a perforate support for the glass above the bottom of the tunnel, and means for heating a portion of said tunnel comprising a plurality of recirculation chambers which extend transversely of the tunnel beneath said perforate support and which have ports opening longitudinally into the tunnel, means for discharging hot gases into said chambers, and means for discharging cool gases into the cooling portion of the tunnel.

20. In a glassware annealing lehr, the combination of a tunnel having an openwork ware-supporting platform therein, means for producing heat in the tunnel, said means including a pressure burner discharging into said tunnel at a level below said platform, and a throat into which said burner discharges and which is separated from said burner by a gap which is open to the interior of the tunnel.

2,162,378

GLASS ANNEALING LEHR

Carroll Cone, near Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of New York

Application January 28, 1935, Serial No. 3,798

15 Claims. (Cl. 49—47)



5. In combination, a tunnel having a ware-supporting platform therein, a gas distributing chamber extending below said platform crosswise of the tunnel in spaced relation with respect to the ware-entering end of the tunnel and having outlet ports facing said end, means for withdrawing gases from the tunnel at a point more remote from said end than said chamber and for delivering the same to said chamber, and means including a burner for adding highly heated gases to the gases thus delivered to said chamber.

13. A glassware annealing lehr, comprising a tunnel, an openwork conveyor for transporting glassware therethrough, and means located below the conveyor and adjacent to the longitudinal vertical central plane of the tunnel for delivering hot gases into the tunnel below the conveyor and for directing them laterally toward the side walls of the tunnel.

2,162,379

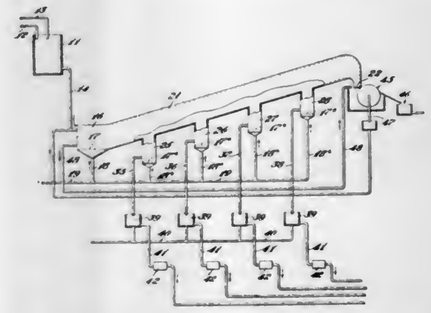
SEPARATION OF FOAM-FORMING CONSTITUENTS FROM LIQUIDS

Richard A. Dole, San Francisco, and James W. McBain, Stamford University, Calif., assignors to Chemical Process Company, San Francisco, Calif., a corporation of Nevada

Application June 15, 1936, Serial No. 85,298

14 Claims. (Cl. 127—12)

6. Process of removing foam-forming constituents dissolved or colloidally dispersed in a sugar solution, which comprises converting the sugar solution into a body of foam and causing the body of foam thus formed to travel through a foam-draining zone, allowing relatively purified sugar solution to drain out of said body of foam as it travels, collecting the drained solution at a plurality of places along the path of travel of said body of foam, subjecting the solution which has collected at the several said places to a further foam-forming treatment to remove residual foam-forming constituents, and conducting the residual foam to a foam-breaking zone for disposal.



8. Apparatus for separating foam-forming constituents from liquids comprising means defining a foam-forming zone, means for converting a liquid in said zone into a body of foam, means defining a foam-draining zone, means operative to conduct foam formed in said foam-forming zone to said foam-draining zone, means for entrapping and segregating liquid drained from foam in said foam-draining zone, means for introducing a gaseous medium into the entrapped and segregated liquid, and means for withdrawing the drained liquid.

2,162,380

METAL COMPOSITION

Arnold S. Doty and Earl F. Swazy, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application August 6, 1938, Serial No. 223,501

4 Claims. (Cl. 75—176)

1. The method of making a refractory metal composition composed of 30 to 90% of refractory material selected from the group consisting of molybdenum and tungsten and their carbides, 10 to 70% of silver and .1 to 2.5% of copper which comprises mixing together the powdered constituents while retaining aside at least a part of the silver, pressing the mixed powders into a compact mass, sintering the mass and then heating the sintered mass in contact with the silver in molten condition to impregnate the mass therewith.

2,162,381

SWINGING CLOSURE MOUNTING

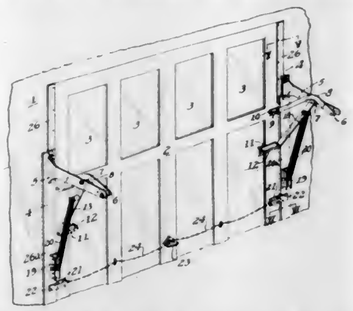
Frederick A. Guth, Denver, Ohio

Application April 21, 1937, Serial No. 138,224

10 Claims. (Cl. 20—16)

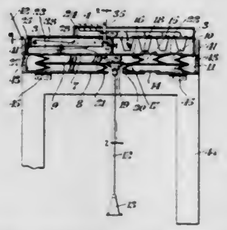
1. A hinge mechanism for a door comprising a bracket member formed for attachment to the door frame, bearing means provided upon said bracket member, a power lever pivoted at one end to said bracket member and to the door at the other end, spring means pivotally connected at one end to the door frame in spaced relation

to said bracket member and at the other end to said power lever adjacent its pivotal connection



with said bracket, and a control link pivotally connected with said door and said bracket.

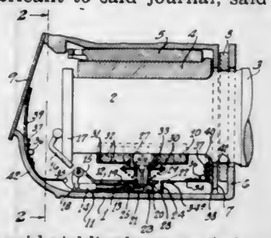
2,162,382
BELLOWS-OPERATED REED INSTRUMENT
Oscar Heim, East Hempstead, N. Y.
Application June 23, 1938, Serial No. 215,339
4 Claims. (Cl. 84—355)



1. A bellows-operated reed instrument having separate reed boxes for reeds in different registers of its total range, and separate bellows mechanisms connected respectively to said reed boxes, each of said bellows mechanisms being constructed and arranged to maintain sound producing conditions in its respective reed box during both compression and expension movements, and individually actuatable operating members respectively serving said bellows mechanisms, certain of the diaphragms of said bellows mechanisms being relatively fixed in position in respect to each other and connected to a common support for the instrument as a whole, other diaphragms of said bellows mechanisms being relatively movable with respect to each other and said support, said movable diaphragms being respectively connected to said operating members, said bellows mechanisms and operating members being constructed and arranged to enable the motion of one of said bellows mechanisms to be varied in respect to the other and thereby alter the relative sound effects produced in said reed boxes.

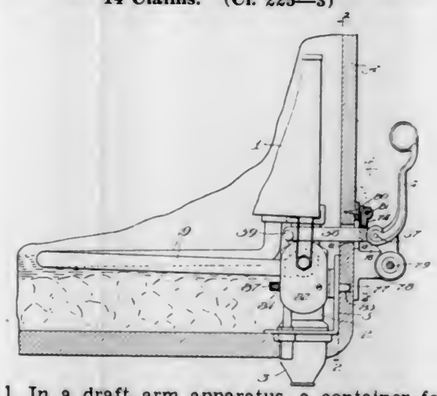
2,162,383
JOURNAL LUBRICATOR
James J. Hennessy, New York, N. Y.
Application August 15, 1934, Serial No. 739,849
10 Claims. (Cl. 308—85)

2. In combination, a journal, a journal box therefor, a pump spaced from said journal, a delivery conduit extending from said pump and comprising relatively movable portions, means yieldingly supporting the portion more remote from said pump, and a pan for material to distribute lubricant to said journal, said pan being



carried by said yieldingly supported conduit portion.

2,162,384
DRAFT ARM FOR DISPENSING BEVERAGES
Alphonso L. Koenig, Chicago, Ill.
Application July 8, 1936, Serial No. 89,535
14 Claims. (Cl. 225—3)



1. In a draft arm apparatus, a container for syrup, a casing below said container having therein a valve chmber and a measuring chamber below the valve chamber, a short conduit connecting the valve chamber with the bottom of the container, and a long cooling conduit for syrup connected at one end to the container and at the other end to the other conduit.

2,162,385
PROCESS OF MANUFACTURING LARGE SURFACE ELECTRODES
Erich Langguth, Hagen-Emst, Germany
No Drawing. Application January 22, 1936, Serial No. 60,267. In Germany January 24, 1935
1 Claim. (Cl. 204—1)

The herein described process of manufacturing large surface electrodes, which consists in placing a nickel electrode as anode in an electrolyte consisting of a solution of borax and having boric acid dissolved therein, connecting the said electrode and electrolyte in an electric circuit containing a source of electric energy, and closing the said circuit.

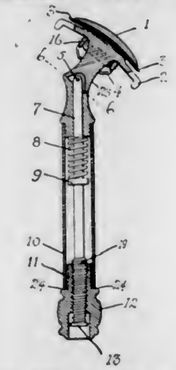
2,162,386
PROCESS FOR THE MANUFACTURE OF INSULATING BODIES
Bruno Neuhof, Berlin, Germany
No Drawing. Application December 30, 1935, Serial No. 56,720. In Germany July 4, 1934
5 Claims. (Cl. 92—21)

1. In a process for the manufacture of insulating material from mineral wool fibers; the steps of wetting out mineral wool fibers with water, mixing a binding agent normally causing shrinkage with said mineral wool fibers, incorporating therein a chemical agent which increases the viscosity and lowers the surface tension of the water, incorporating gas bubbles in the mass, the agent and gas being in sufficient amounts to equalize and counteract the shrinkage which would normally be caused by the binder, working up the mass so obtained on sieves while water is being removed from it, and subjecting the mass so obtained to a shaping operation without mechanical pressure whereby the volume of said mass is substantially unchanged during the shaping operation.

2,162,387
PLASTIC COMPOUND
Noah B. Radabaugh, Mentor-on-the-Lake, Ohio
No Drawing. Application February 18, 1937, Serial No. 126,457
2 Claims. (Cl. 106—8)

2. A composition of matter for a high temperature cement that can be subjected to the temperature of the furnace in which it is to be used for sealing joints, said composition having the properties of a non-fusible slightly pliable cement comprising a mixture of substantially equal parts of silicate soda and asbestos fibre, a larger portion of said, a major portion of fire clay and a minimum portion of mineral wool.

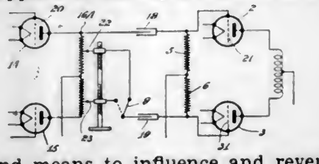
2,162,388
SAFETY RAZOR
Charles M. Rockwell, San Diego, Calif.
Application April 8, 1935, Serial No. 15,224
4 Claims. (Cl. 30—87)



1. In a safety razor, a head or blade holder for double-edged blades, the plane of which head is positioned at a pitch and offset in relation to the handle and which head is rotatably adjustable on a cam at the end of the handle by means of being pivotally connected to a revoluble shaft extending lengthwise through the center of the handle to a knob at the base of the handle, and the action of the whole being assisted by spring means within the handle.

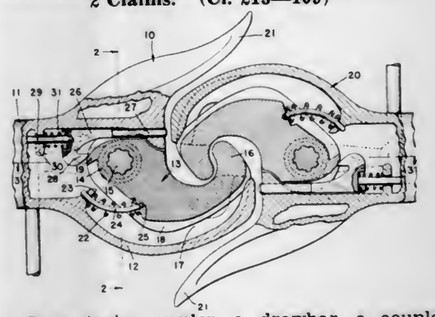
2,162,389
PUSH-PULL AND LIKE AMPLIFYING SYSTEMS
John Ruston, Peckham, London, England, assignor to British Acoustic Films Limited, London, England, a British corporation
Application August 6, 1936, Serial No. 94,521
In Great Britain October 7, 1935
3 Claims. (Cl. 179—171)

1. In a push-pull type of amplifying stage, reciprocally active valves having alternating current input circuits and grid electrodes, means for adjusting the relative alternating potential amplitudes applied to the input circuits of the two



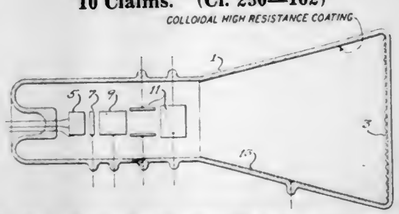
valves, and means to influence and reverse the phase of the alternating potential applied to the input of one of said valves in the course of relative alternative grid potential adjustment to effect optimum balance of the amplifying stage.

2,162,390
TRAIN COUPLER
Norval Rydin, Chicago, Ill.
Application June 11, 1937, Serial No. 147,711
2 Claims. (Cl. 213—109)



1. In a train coupler, a drawbar, a coupler head, a knuckle having a hinge barrel on its inner end, a pivot pin extending through said barrel and head, spring means engaging the knuckle to normally move the same in a coupled position, a keeper formed on the barrel, a spring pressed latch having a keeper nose engaging the keeper when the knuckle is in an open position to hold said knuckle against closing movement, and means on the latch projecting beyond said coupler head and arranged to operate said latch upon the coming together of a pair of coupler heads.

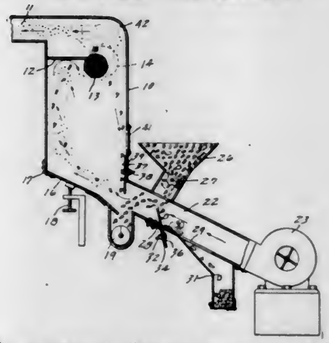
2,162,391
ELECTRON TUBE WITH HIGH OHMIC WALL COATINGS
Erich Schwartz and Kurt Wellmann, Zehlendorf, near Berlin, Germany, assignors to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application April 13, 1936, Serial No. 74,222
In Germany April 18, 1935
10 Claims. (Cl. 250—162)



1. In a cathode ray oscillograph comprising an evacuated insulating tube having an electron gun

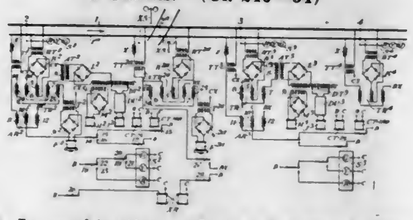
therein and a fluorescent screen disposed in registry therewith, a coating on the wall of said tube between said gun and said screen, said coating comprising a mixture of conducting and high resistance colloidal substances to control the resistance of said coating.

2,162,392
PEANUT CLEANER
Nicholas B. Solomon, Jr., and Dannie M. Carter, Blakely, Ga.
Application March 9, 1938, Serial No. 194,748
6 Claims. (Cl. 209—137)



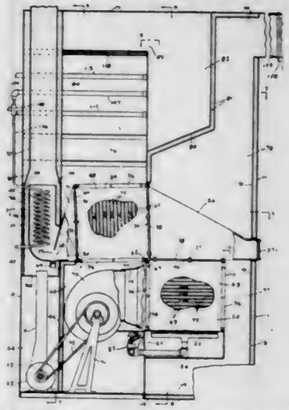
1. In a peanut cleaner, a means defining an upwardly inclined passage, a blower connected to the lower end of the passage, a baffle member in the passage extending transversely thereof at an acute angle in the direction of air flow, means to feed peanuts into the passage on the windward side of the baffle member, a rock trap between the blower and the baffle member and disposed a substantial distance from the latter, a chamber into the lower part of which the said passage opens, a baffle extending horizontally from the wall of the chamber distant with respect to the blower part way across the upper part of the chamber, an outlet for air and light trash in the upper end of the chamber beyond the baffle and on the side of the chamber distant from the blower, and a conveyor for cleaned peanuts in the bottom of the chamber.

2,162,393
RAILWAY TRAFFIC CONTROLLING APPARATUS
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 12, 1935, Serial No. 6,174
Renewed May 29, 1936
2 Claims. (Cl. 246—34)



1. In combination, a first and a second section of railway track, means for supplying coded current to the rails of said first section, a saturation relay comprising a magnetizable core having an input winding receiving coded energy from the rails of said first section for changing the flux in said core in step with said coded energy and having a first and a second output winding on said core, means including said first output winding for at times supplying coded current to the rails of said second section, a normally energized relay receiving energy at said times from said second output winding, and means effective when said last mentioned relay is deenergized for supplying uncoded current to the rails of said second section.

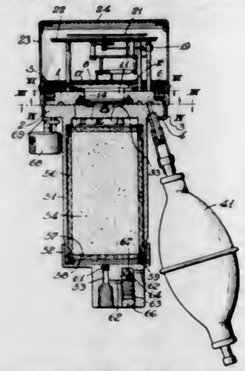
2,162,394
AIR-CONDITIONING APPLIANCE
Frank A. Whiteley, Covington, Ky.
Application January 21, 1937, Serial No. 121,518
16 Claims. (Cl. 126—116)



1. A hot-air heating plant comprising a casing forming a fire chamber, an air-carrying member extending across said fire chamber having cast iron walls, said member being divided into a multiplicity of air passageways by thin plates integrally cast at their sides in the cast metal walls, an air-intake chamber, an air-delivery chamber, and means for positively moving the air to be heated from the air-intake chamber through said air passageways and to the air-delivery chamber.

2,162,395
APPARATUS FOR ANALYZING GASES
Owen G. Bennett, Pittsburgh, Pa., assignor to Catalyst Research Corporation, Pittsburgh, Pa., a corporation of Maryland
Application July 1, 1936, Serial No. 88,351
4 Claims. (Cl. 73—51)

1. A gas analyzer comprising a plate having an inlet passage therethrough adapted to be connected to a source of gas to be analyzed, a disc rotatably disposed against said plate in sealing engagement therewith and provided with an opening, a diffusion diaphragm spaced from said plate and closing the end of said opening adjacent thereto, a pressure-actuated diaphragm closing the opposite end of said opening and spaced from the diffusion diaphragm, a meter operatively connected to said pressure diaphragm, said disc and plate being provided with passages connecting said inlet passage to the plate side of the diffusion diaphragm, said passages being sealed from one another when the disc and plate are rotated relative to each other to inoperative position, said plate being provided with an outlet passage connecting said plate side of the diffusion diaphragm with the atmosphere at all times, and means for producing a current of air, said disc and plate being provided with ducts that register when the disc and plate are in said inoperative



position for connecting said means with both sides of the diffusion diaphragm and for connecting the pressure diaphragm side of said diffusion diaphragm with the atmosphere.

2,162,396
CONTAINER
Hans A. Eggerss, Van Wert, Ohio
Application July 5, 1938, Serial No. 217,355
5 Claims. (Cl. 220—61)



1. A split ring adapted to be applied to a container or similar article, said ring being adapted to have its ends in overlapping relationship, said ring having an outwardly curved continuous rib formed thereon, means for securing the ends of said ring together, said means comprising an inwardly projecting lug formed on the end of the ring disposed outermost, said lug being formed by forcing a portion of the metal of said rib inwardly to form a lug with a groove in the outer side thereof communicating at each end with the interior of said rib, a cooperating slot formed on the end of the ring disposed innermost and adapted to receive said lug, said slot being formed in said curved rib, means for maintaining the lug in position in the slot, said means comprising a pin resting in the outer groove formed in the lug and extending in opposite directions under the rib on the innermost end of the ring at points adjacent the ends of said slot.

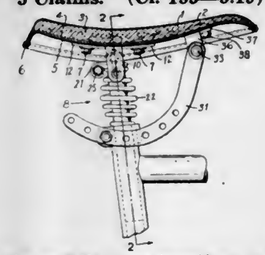
2,162,397
ELECTROLYTE AND METHOD
Donald E. Gray, Teaneck, N. J.
No Drawing. Original application July 6, 1934, Serial No. 733,976. Divided and this application March 4, 1939, Serial No. 259,850
25 Claims. (Cl. 175—315)

5. An electrolyte solution for electrolytic condensers which comprises the product of a mixture of polyhydroxyl alcohol with an alkaline compound selected from the group of oxides and hydroxides of sodium, potassium, lithium, calcium and strontium, said group also including ammonia and ammonium hydroxide, to produce an alkaline alcohol solution, and a suitable quantity of weak acid anhydride thoroughly intermixed to secure a desired consistency of solution without boiling.

2,162,398
LUBRICANT
Frank C. Haas, Wyandotte, Mich., assignor, by mesne assignments, to Archer-Daniels-Midland Company, Minneapolis, Minn., a corporation of Delaware
No Drawing. Application August 18, 1936, Serial No. 96,653
4 Claims. (Cl. 87—9)

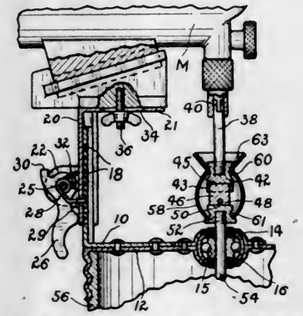
1. A substantially non-sludging internal combustion engine lubricating oil consisting primarily of solvent extracted de-waxed petroleum oil and not more than about 1% of sulphurized sperm oil as an oiliness agent.

2,162,399
BICYCLE SADDLE
Arthur D. Hayes, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application September 3, 1936, Serial No. 99,274
5 Claims. (Cl. 155—5.19)



1. A cycle saddle construction comprising a saddle, a saddle post slideably engaging the cycle frame, link means pivotally secured to the saddle and saddle post whereby the saddle may rock relative to the saddle post, resilient means encircling the saddle post and engageable with the saddle post and the cycle frame to yieldingly resist downward movement of the saddle post, and a rigid element pivotally secured to the pommel portion of the saddle and adjustably clamped to the cycle frame whereby the position of the pommel portion of the saddle may be relatively altered.

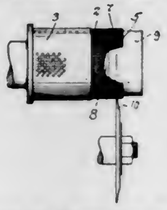
2,162,400
REMOVABLE MOTOR MOUNT AND ADAPTER FOR MIXERS, CHURNS, AND THE LIKE
Emery A. Heath, Olympia, Wash.
Application August 26, 1936, Serial No. 98,043
2 Claims. (Cl. 248—16)



1. In a motor mount the combination with a standard having a longitudinal series of holes, an angular bracket having means for attaching one of its arms to the mount, and an opening in the

other arm adapted to register with the holes in said series, of a lever pivoted on the second arm, a spring mounted at the pivotal support of the lever and having a free end forming a detent engaged in said opening and one of said holes, a head on the lever adapted to impinge against said second arm when the lever is swung as a handle in adjusting the bracket with relation to the standard, and means between the lever and the spring for releasing the latter from one of the series of holes when the lever is actuated.

2,162,401
METHOD OF TRIMMING WICKS
Rudolph Hoffman, Rocky River, Ohio
Application August 25, 1936, Serial No. 97,796
2 Claims. (Cl. 67—69)



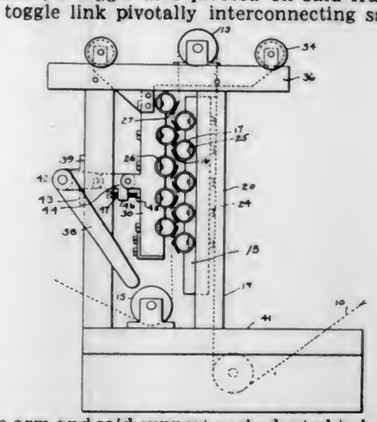
1. The method of trimming wicks which comprises impregnating only one end of the wick with a hardenable substance of a combustible nature containing wax, mounting said wick on a mandrel, rotating said mandrel to thereby rotate said wick, and cutting off a portion of said impregnated end during such rotation so as to leave a smooth end on the wick.

2,162,402
METHOD OF RUNNING A BLAST FURNACE
Kurt Hörnemann, Essen, Germany
No Drawing. Application February 19, 1938, Serial No. 191,401. In Germany February 20, 1937
6 Claims. (Cl. 75—131)

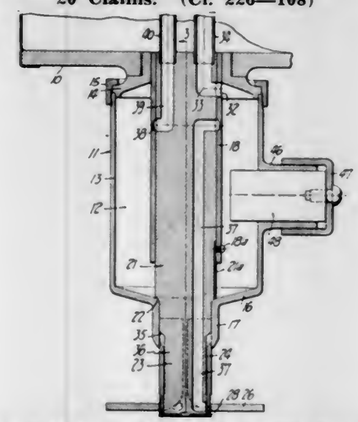
1. Method for the production in blast furnaces of iron which contains an alloying ingredient such as manganese, chromium, molybdenum, titanium, vanadium, or the like, which consists in the steps of (1) introducing into the blast furnace a charge of iron ore and fuel, (2) operating the blast furnace to reduce the iron ore, forming molten iron and slag, (3) drawing off the slag while retaining the molten iron in the blast furnace, (4) introducing into the blast furnace a secondary charge containing an ore of the alloying metal and fuel, (5) operating the blast furnace to reduce said second charge to metal and slag, and (6) drawing off the resulting metal comprising iron and said alloying metal.

2,162,403
PAPER MAKING APPARATUS
Charles Willmott Howard, Franklin, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application January 15, 1937, Serial No. 120,779
4 Claims. (Cl. 15—93)

1. Apparatus of the character described comprising a frame, a series of spaced edged blades carried by said frame and arranged in a series one above the other for engagement with one side of a web of material, means for guiding the web of material past said series, a second series of blades adapted for engagement with the opposite side of the web, a common support for said second series, the edges of said blades pointing toward the oncoming web, and the blades of the second series being arranged opposite the spaces between the blades of the first series and normally providing a zig-zag path for the web, means on said frame for guiding said support for rectilinear movement in a direction transversely of the general line of travel of the web past the blades, a toggle arm pivoted on said frame and a toggle link pivotally interconnecting said toggle arm and said support and adapted to be moved into alignment with the toggle arm to locate the support in a predetermined operative position with the blades of said second series engaged with the web, and means for operating said toggle arm.

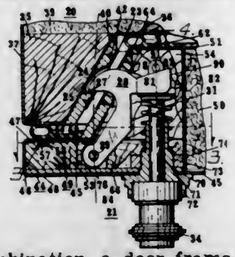


2,162,404
FILLING VALVE
Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application November 18, 1936, Serial No. 111,356
20 Claims. (Cl. 226—108)



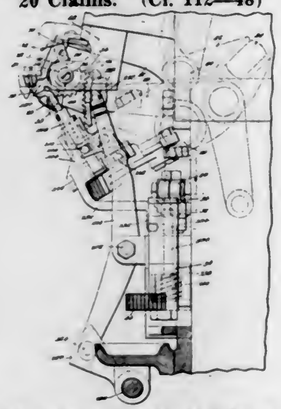
1. In a valve for filling containers with liquid from a tank, a measuring chamber, and a valve member movable relative to said chamber having passage means for controlling the flow of liquid and air to and from said chamber; said passage means incuding a chamber filling passage for admitting liquid from the tank to the chamber in a lowered position of said valve member, a chamber vent passage for venting air from said chamber in said lowered position of said valve member, a container filling passage for flow of liquid from the chamber to a container in a raised position of said valve member, and a container vent passage for flow of air from a container into the chamber in said raised position of the valve member.

2,162,405
DOOR LATCH
Andrew A. Kucher, Dayton, Ohio
Application November 17, 1936, Serial No. 111,263
10 Claims. (Cl. 292—127)



1. In combination, a door frame and an outside covering for the frame; a latch base disposed against the inside wall of the covering and secured to the covering; a catch pivotally carried by the latch base; and means extending through the covering for actuating the catch.

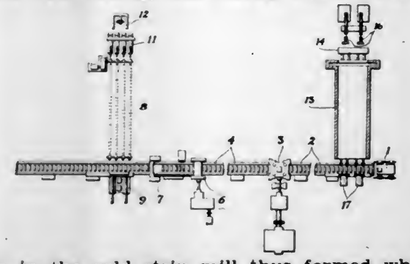
2,162,406
SHOE SEWING MACHINE
Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 30, 1937, Serial No. 177,243
20 Claims. (Cl. 112—48)



3. A shoe sewing machine having, in combination, work feeding and stitch forming devices including an awl, movable back and forth in the line of feed, a channel forming knife in the line of feed past which the work is fed, means for adjusting said devices to vary the length of stitch acting to vary the limit of the backward movement of the awl in the line of feed, and connections between said adjusting means and the knife to position the knife in the line of feed immediately adjacent the awl at the limit of its back stroke.

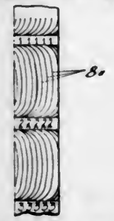
2,162,407
METHOD AND APPARATUS FOR MANUFACTURING METALLIC STRIP
Charles H. Manion, Follansbee, W. Va., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 11, 1937, Serial No. 163,359
17 Claims. (Cl. 80—31.1)

1. The method of rolling metal comprising rolling ingots or the like in a mill to form slabs, reheating the slabs, rolling the slabs in the same mill to form bars, conveying the bars from said mill directly to a hot strip mill to reduce them to strip, coiling the hot strip, again rolling ingots in said first mill to form slabs after said hot strip rolling is finished, exchanging the strip mill equipment necessary for hot rolling for that needed for cold rolling, cold rolling the hot rolled



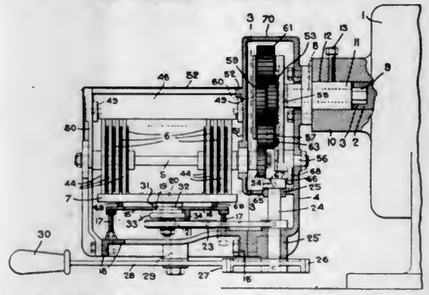
strip in the cold strip mill thus formed while slabs are being produced by said first mill, returning said hot rolling equipment to the strip mill after said cold rolling is finished, and repeating this cycle of rolling whereby substantially all of the apparatus is maintained in substantially continuous operation.

2,162,408
MARKING MEANS FOR FILM STRIPS
Bruno C. Roehrl, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
Application September 26, 1936, Serial No. 102,789
3 Claims. (Cl. 95—9)



1. A roll film having an opaque protective strip provided with film section marks in spaced relation, a curved indicating line between each of said marks, said line having a direction substantially transverse of the strip adjacent each section mark and substantially lengthwise of the strip in the portion of said lines intermediate the section numbers to indicate the approach of the succeeding film section mark.

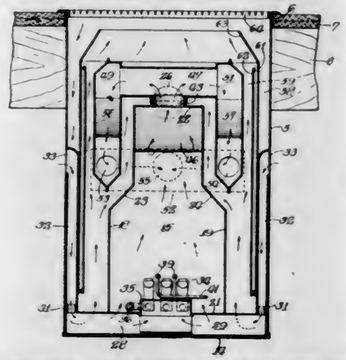
2,162,409
MEAT-SLITTING MACHINE
Joseph P. Spang, Quincy, Mass.
Application February 20, 1936, Serial No. 64,850
23 Claims. (Cl. 17—27)



1. A meat-slitting machine comprising a set of

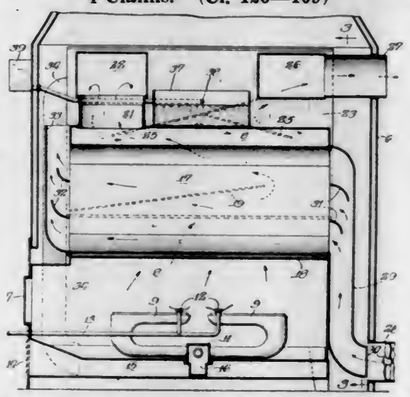
rotary knives, a meat-supporting table, means to move the table back and forth beneath the knives and power-driven knife-rotating mechanism including means to reverse the direction of rotation of the knives coincidentally with the reversal of direction of movement of the table.

2,162,410
FLOOR FURNACE
Benjamin F. Stephens, Tulsa, Okla.
Application December 24, 1937, Serial No. 181,555
3 Claims. (Cl. 126—116)



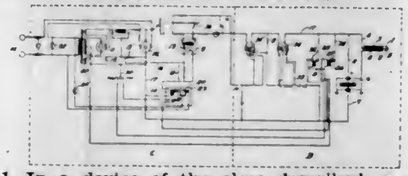
1. A furnace comprising a casing composed of side walls and a closed bottom, a combustion chamber located therein, a burner in said combustion chamber, a partition wall dividing the space between the combustion chamber and the casing into a cold air down-draft passage and a hot air up-draft passage, means for conducting the products of combustion from said chamber in a tortuous path surrounded by said partition to a delivery point outside of said casing, a combustion air inlet opening in said casing located a substantial distance above the level of said burner, and conduit means for conducting air from said air inlet opening to said combustion chamber, said casing below the inlet of said conduit being sealed to preclude the entrance of water thereinto.

2,162,411
FORCED AIR HEATING FURNACE
Benjamin F. Stephens, Tulsa, Okla.
Application February 17, 1938, Serial No. 190,892
4 Claims. (Cl. 126—109)



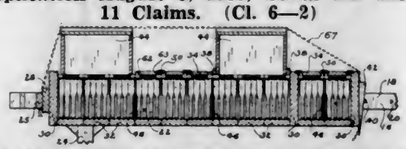
1. A furnace comprising a combustion chamber, a heating chamber extending longitudinally therethrough, a blower, a conduit for delivering forced air from said blower into the rear end of said heating chamber, upwardly turned deflectors interposed in the path of the air issuing from the other end of said chamber, a pair of lateral heating chambers, conduits for delivering forced air from said blower into the front end of each of said lateral chambers, means for deflecting upwardly the heated air issuing from said lateral chambers, and means for conducting products of combustion from said combustion chamber around said lateral heating chambers to heat the air flowing therethrough.

2,162,412
POTENTIAL MEASURING APPARATUS
John A. Victoreen, South Euclid, Ohio
Application August 15, 1936, Serial No. 96,223
7 Claims. (Cl. 250—83)



1. In a device of the class described, a calibrated ionization circuit having an input and an output and including an ionization chamber, a source of potential, and a condenser, said condenser adapted to be charged by the source of potential upon ionization in said ionization chamber, an electrometer having an input circuit and an output circuit and a recorder, said calibrated circuit having its output connected to the electrometer, said electrometer having its output connected to the recorder, and said recorder adapted to record a predetermined charge in said condenser, and discharge the condenser after recording said charge.

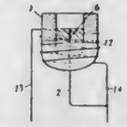
2,162,413
SWARM-CONTROLLING SECTION HIVE
Joseph Wisniewski, Mount Vernon, Wash.
Application August 5, 1938, Serial No. 223,309
11 Claims. (Cl. 6—2)



1. In a sectional bee-hive, the combination with a substantially horizontal frame having side bars and end bars, of a plurality of comb-holders arranged transversely of the frame and suspended on said side bars, removable means suspended on the side bars closing the outer sides of the two end holders, and means for pressing together, laterally, adjoining holders.

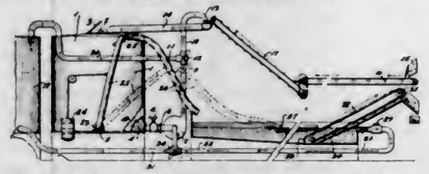
2,162,414
DISCHARGE TUBE ELECTRODE
Stanley Alfred Abbott, London, England
Application February 4, 1938, Serial No. 188,782
In Great Britain February 5, 1937
19 Claims. (Cl. 250—27.5)

5. The method of manufacturing a discharge tube electrode of the hot cathode type, which comprises providing a hollow carrier body of silica with a metallic contact member extending at least partially into the interior thereof, effecting local chemical reduction of the interior surface of said carrier body to silicon, introducing a powdered mixture containing electron-emissive



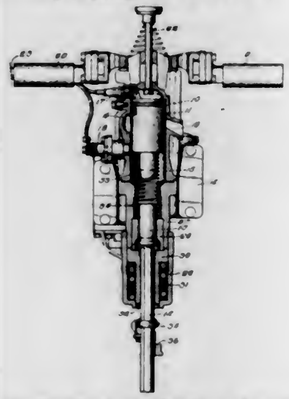
material and silicon into said carrier body in contact with the reduced surface thereof and in contact with said contact member, and heat-treating the electrode structure thus formed.

2,162,415
APPARATUS FOR HANDLING FRUITS
William G. Allen, Salem, Oreg.
Application March 22, 1937, Serial No. 132,383
12 Claims. (Cl. 214—17)



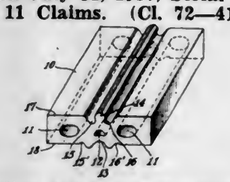
12. In a fruit handling apparatus of the class described, a fruit and liquid storage container, a plurality of liquid re-circulation conduits exterior of said container, common pump means for said conduits, an unobstructed outlet in said container connected to one of said conduits, means in the last conduit for removing fruit from the liquid during said circulation, and a second screened outlet in the container connecting the other conduit and means for introducing fruit to be handled into said other conduit for conveyance by the re-circulated liquid into said container.

2,162,416
INTERNAL COMBUSTION TOOL
Emmons R. Boddinghouse, Chicago, Ill., assignor to Gas Tool Patents Corporation, a corporation of Delaware
Application October 15, 1937, Serial No. 169,277
10 Claims. (Cl. 123—7)



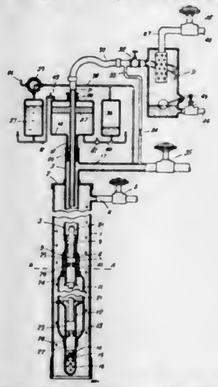
1. In an internal combustion hammer, a cylinder and a piston therein, an anvil and means supporting it below said piston, return spring means for returning the piston to firing position, the maximum load of said spring means when compressed by said piston until the latter touches the anvil not exceeding thirty times the weight of the piston, the anvil striking portion of the piston and the anvil having a minimum hardness of sixty scleroscope.

2,162,417
BUILDING BRICK AND WALL
George B. Breakey, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Tybrick Corporation, a corporation of New York
Application July 31, 1937, Serial No. 156,727
11 Claims. (Cl. 72—41)



1. A building brick substantially rectangular in shape and of multiple type, having edge dimensions the same as standard brick and having a plurality of interior portions hollowed-out therethrough as voided areas of a substantially curved shape and disposed on either side of a central portion and parallel to edges of the brick, said hollowed-out portions being closed in all around by the material of the brick and being bounded interiorly of the brick by substantially curved-arch shaped walls constituting compression body members of the brick.

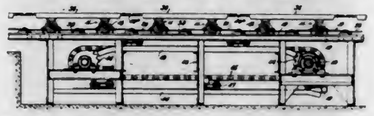
2,162,418
APPARATUS FOR RAISING NATURAL OILS AND OTHER LIQUIDS BY GASEOUS PRESSURE
Norman Fraser Brown, Hamilton, Scotland
Application April 14, 1938, Serial No. 202,066
In Great Britain April 19, 1937
13 Claims. (Cl. 103—231)



1. Apparatus for raising liquids in wells by gaseous pressure comprising a chamber adapted to be disposed below liquid level in a well, a gas pipe opening to the chamber, a source of gaseous pressure, means connecting said source to said gas pipe, an eduction pipe vertically reciprocable in said chamber, a plurality of valve means actuable by said eduction pipe upon reciprocation thereof to one position for admitting liquid to the chamber from a space around the chamber while opening a vent between the upper part of the chamber and the said space and closing the

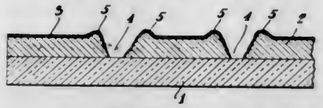
eduction pipe from the chamber, and upon reciprocation of the eduction pipe to another position for closing said chamber from said space while admitting gaseous fluid to the upper part of said chamber and opening the eduction pipe to be lower part of the chamber.

2,162,419
MOLD CONVEYER
Clare Bryan, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application March 4, 1938, Serial No. 193,996
25 Claims. (Cl. 198—181)



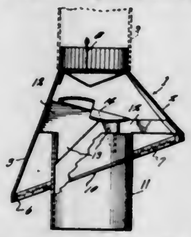
1. In a mold conveyer, or the like, a multiplicity of load carrying trays, a pair of wheeled trucks for each tray, and means exclusive of said trucks for uniting the trucks of each tray and of all of the trays, said means comprising a chain formed of a plurality of pivotally connected links and means for connecting one of said trucks to each one of said chain links between each pivotal chain connection.

2,162,420
PLAQUE FOR X-RAY MACHINES
Timothy S. Buckley, Jackson Heights, Long Island, N. Y.
Application August 10, 1938, Serial No. 224,107
4 Claims. (Cl. 250—67)



1. A removable identification plaque for marking an X-ray negative comprising: a backing member permeable to X-rays, an intermediate layer of plastic material impermeable to X-rays, and a powder permeable to X-rays covering the plastic material, said powder crumbling and being displaced with the plastic material when subjected to scribing pressure to form a furrow with adjacent hills.

2,162,421
VENTILATOR HOOD
Fremont Camerino, Niles, Ohio
Application April 29, 1938, Serial No. 205,079
1 Claim. (Cl. 126—312)



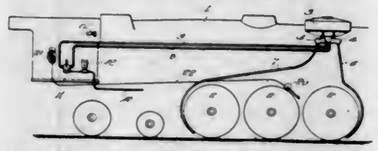
A device of the class described for use in the line of connection between a stove and chimney, comprising a open top and bottom hood and having upwardly converging sides and ends and adapted to be interposed in said line of connection, said hood having a foraminous bottom, a section of stove pipe extending upwardly partway into the hood in spaced relation to the sides thereof, and a baffle plate mounted in said hood of substantially the same size as said section and spaced slightly above the upper end of said section.

2,162,422
REGISTER CASING DOOR
Richard H. Colwill, Chicago, Ill., assignor to United Autographic Register Co., a corporation of Illinois
Application May 3, 1937, Serial No. 140,531
5 Claims. (Cl. 282—12)



5. In a machine of the character set forth: a casing provided in its lower portion with a storage compartment, said compartment being provided with a slip-admitting slot and having a hinged trap-door beneath said slot forming part of the bottom wall of the casing and adapted to swing downwardly to open the compartment, said trap-door being provided with means for holding it up normally in closed position, and said door having a keeper extending upwardly beyond said slot so as to embrace stationary slips deposited in said compartment and bend them outwardly when the door is opened.

2,162,423
LOCOMOTIVE SANDING APPARATUS
James E. Davenport, New York, N. Y., assignor to The New York Central Railroad Company, a corporation of New York
Application August 9, 1938, Serial No. 223,953
9 Claims. (Cl. 291—2)

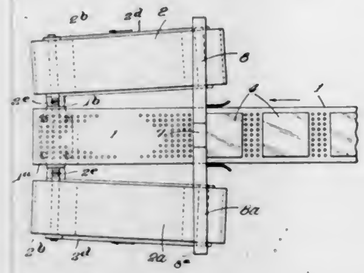


1. In a sanding apparatus for vehicles having driver wheels, a source of fluid pressure supply, a manually operable valve normally effective for controlling the flow of fluid from said source for effecting a sanding action, and a driver wheel speed responsive device for preventing a sanding action on the operation of said valve at a driver wheel speed above a predetermined high driver wheel speed.

2,162,424
MANUFACTURE OF CIGARETTES
William Frederick Maitland Edwards, Esher, England, assignor to Filter Tips Limited, London, England
Application June 14, 1937, Serial No. 148,212
In Great Britain February 3, 1937
10 Claims. (Cl. 131—39)

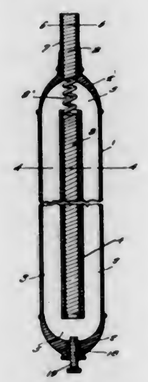
1. In the manufacture of filter tip cigarettes by uniting an assemblage of cigarette and mouthpiece stub portions in abutting contact by a uniting band, the steps comprising rolling the assemblage between relatively movable surfaces, and

frictionally applying slight axial pressure to the portions of the assemblage in such manner as to



maintain the abutting contact of such portions during the rolling operation.

2,162,425
SETTING GAUGE FOR RESILIENT ROLLERS OF PRINTING PRESSES
Sherman E. Faught, New Orleans, La.
Application March 30, 1938, Serial No. 199,045
4 Claims. (Cl. 33—182)

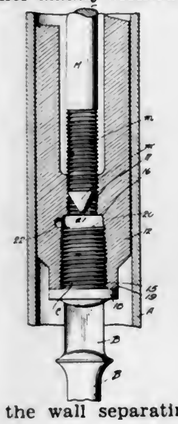


1. A roller setting gauge comprising an elongated member of compressible material adapted to be placed between a pair of rollers and containing liquid, said member having a number of conduits therein in communication with each other at the ends of the member, a tube connected with one end of the member and in communication with the conduits therein, a sight gauge connected with the outer end of the tube and means in one of the conduits for preventing compression of said one conduit.

2,162,426
COMBINED SUCKER ROD COUPLING AND GUIDE
Jeremiah J. Fitzpatrick, Oklahoma City, Okla.
Application September 10, 1937, Serial No. 163,319
10 Claims. (Cl. 255—28)

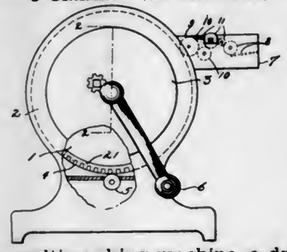
1. A paraffin scraper section for a sucker rod assembly comprising two connecting members secured together by longitudinal ribs, an annular body having angular shearing faces connecting said ribs intermediate their ends, one of said con-

necting members having an outer threaded bore and a spaced inner axially formed reduced bore,



and a port in the wall separating the spaced threaded bores.

2,162,427
PRINTING MECHANISM
Lawrence Wilbur Froyd, Arlington, Va., assignor to Albert Falk Doig, Washington, D. C.
Application April 20, 1936, Serial No. 75,456
5 Claims. (Cl. 101—244)



2. In a multigraphing machine, a drum means to rotate the drum, said drum having a printing form on the face thereof, a platen with which the printing form may coact, an inking ribbon in contact with the printing form, an inking roller positioned to engage said ribbon after it has passed under said platen, a support for the drum, said drum being movable with respect to the support, said plate being provided with an endless cam surface, an operating bar slidably mounted for radial movement on said drum, a pin extending from said bar and being positioned to engage said surface, means operably responsive to movement of said bar radially inwardly to slide said ribbon over the face of said printing form, said cam surface being formed and positioned to move said pin and bar only after the printing form has been moved from under the inking roller and before the printing form has been moved to engage said platen.

2,162,428
NOVEL CARD GAME
Moses Goldman, Brooklyn, N. Y.
Application October 18, 1937, Serial No. 169,695
4 Claims. (Cl. 273—152)

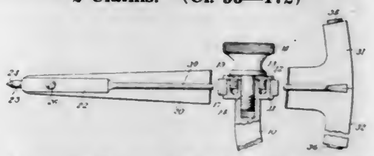
1. In a pack of cards having at least one suit made up of a number of said cards and said suit provided with different symbols constituting a complete design apportioned over the cards of

said suit, a pair of said cards of said suit bisecting one of said symbols to apportion an identically appearing section thereof on each of said



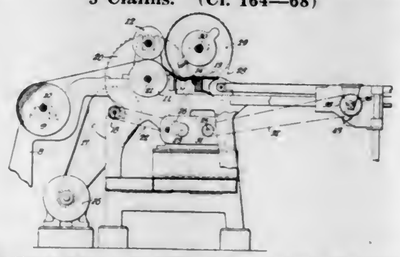
pair of cards for cooperation in denoting the edge to edge relation of the pair of cards when forming the complete design.

2,162,429
TESTING DEVICE
Ronald E. Gruenke, Michigan City, Ind.
Application July 8, 1938, Serial No. 218,207
2 Claims. (Cl. 33—172)



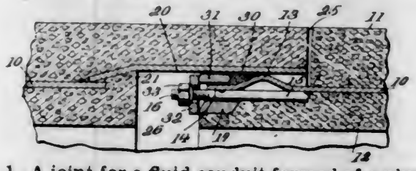
1. A centering test indicator of the type described comprising a supporting shank adapted to being mounted in a lathe tool post; a bushing removably mounted on the distal end of said shank by means including a threaded member passing through an opening formed in said bushing and engaging with a tapped opening in said shank; an annular member freely rotatably mounted on said bushing; a T-shaped frame comprising central element and extending arms, attached to and carried by said annular member at a place intermediate the ends of the central element of said frame; an indicator member pivotally mounted at a place intermediate its length on the free distal end of and substantially coextensive with the central element of said T-shaped frame, the distal end of said indicator member carrying an index cooperating with indicia on the arms of said T-shaped frame for indicating relative positions thereof, and the opposite end of said indicator member carrying a yielding sensitive feeler comprising a spring-pressed rod slidingly mounted in the end portion of said indicator member and having an exposed projecting pointed end portion engageable with a center punch mark in an object to be centered.

2,162,430
PAPER HANDLING MECHANISM
Hans Hefti, Neenah, Wis., assignor to The Appleton Coated Paper Company, Appleton, Wis., a corporation of Wisconsin
Application August 17, 1938, Serial No. 225,302
5 Claims. (Cl. 164—68)



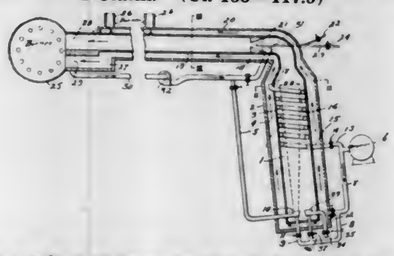
5. In a paper handling apparatus, the combination of a feeding mechanism for continuously feeding paper in web form, a rotary cutter for cutting the web into sheets, means for driving said cutter, a sorting table onto which said cut sheets are delivered including a series of conveyor belts, a stop device associated with said table for stopping the movement of the cut sheets relative to said belts, means operated by said cutter driving means for driving said conveyor belts and operating said stop device, said last named means including an adjustable one-way roller clutch.

2,162,431
PIPE JOINT
Jay Calvin Helms and Ira Richard Devonald, Alexandria, Va., assignors to Helms Concrete Pipe Company, Inc., Alexandria, Va., a corporation of Virginia
Application July 5, 1938, Serial No. 217,560
2 Claims. (Cl. 285—112)



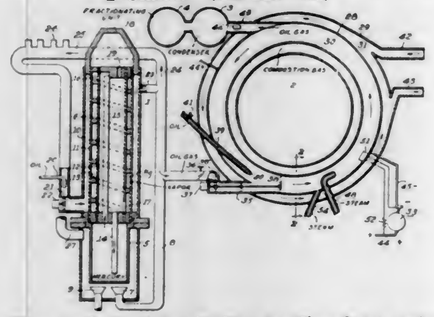
1. A joint for a fluid conduit formed of a plurality of sections of pipe, one of said sections having a metal bell ring with an internal surface of substantially uniform cross-section, and the adjacent section having a spigot end including a swell on the said spigot and located within the said bell ring, a plurality of bolts secured to the spigot end and located inside the same and having threaded ends projecting beyond the ends of the spigot, an elastically yieldable sealing gasket located in the space between the bell ring and the swell, a compression ring extending at least in part into said space and bearing upon said gasket, and clamping devices located within the conduit and including nuts engaged with said bolts for pressing said compression member against said gasket and thereby forcing said gasket along the converging surfaces of the bell ring and swell.

2,162,432
METHOD OF BURNING OIL AS GAS
Charles B. Hillhouse, New York, N. Y., assignor to Sylvia Remsen Hillhouse, New York, N. Y.
Application December 6, 1935, Serial No. 53,238
1 Claim. (Cl. 158—117.5)



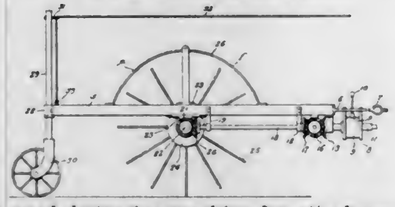
A method of burning oil which consists in reducing by partial combustion a portion of combustible gas to form carbon monoxide and hydrogen and other gases, spraying into said last-named gases, while heated, a portion of oil to produce fuel gases, applying sufficient heat to the fuel gases prior to burning the same to prevent any reversion of gas to a liquid form, burning the major portion of heated fuel gases with air for complete combustion and diverting the remaining portion of the heated fuel gases to flow partly into the stream of said last-named gases and partly to the zone of partial combustion.

2,162,433
METHOD FOR PRODUCING GASOLINE
Charles B. Hillhouse, New York, N. Y., assignor to Sylvia Remsen Hillhouse, New York, N. Y.
Application January 27, 1936, Serial No. 61,071
1 Claim. (Cl. 196—66)



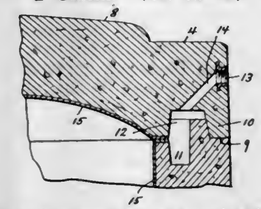
The method of producing gasoline from petroleum which comprises supplying to a chamber a volume of hot combustible oil gases at about 700° F., causing said gases to flow over a closed path in a cycle and back to the point of entry thereof to the chamber, supplying heat to said gases indirectly throughout the length of the cycle at about 1100° F., spraying into said gases in atomized form a quantity of petroleum whereby said petroleum is converted into a light derivative of gasoline vapor, feeding a shield of steam tangentially along and in contact with the inner wall of the chamber adjacent the inlet of the oil gases, said oil gases, petroleum and steam flowing in a direction away from said inlet, withdrawing said vapor from the chamber and condensing the vapor to a liquid form.

2,162,434
AGRICULTURAL MACHINE
Laurence D. Hillyer, Brownwood, Tex.
Application November 2, 1937, Serial No. 172,451
1 Claim. (Cl. 97—16)



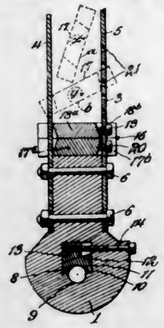
A weed destroying machine for attachment to a motor tractor as a trailer comprising a substantially rectangular frame, a coupling mounted on one end of the frame for attaching the same to the tractor for vertical swinging movement relative thereto, a castor wheel mounted on the other end of the frame and having a shank on which said end of the frame is vertically adjustable, a rotary beating assembly including a roller rotatably mounted on said frame and flexible beating elements extending from said roller, a drive for said roller mounted on said frame and including a transmission adapted to be driven by the motor of the tractor, and manipulative means for adjusting said frame on said shank to cause said flexible element to clear the ground and thereby destroy the weeds above the ground with a lacerating action.

2,162,435
BURIAL VAULT
Eugene Hopkins, Elkhart, Ind.
Application August 11, 1938, Serial No. 224,397
1 Claim. (Cl. 72—7)



A burial vault comprising a casing having sides and ends, and a lid for closing the casing, and means to seal said lid comprising a depending edge flange extending around the lid, the sides and ends of the casing having an external edge rabbet therein for receiving said flange, said lid having a groove extending around the bottom face thereof and the casing having a groove extending around the tops of the sides and ends thereof mating with the groove in said lid, and a sealing medium in said grooves, the lid being provided with ducts extending inwardly from the edge thereof and downwardly to the groove thereof for introducing the sealing medium under pressure into said grooves.

2,162,436
PITMAN OR LIKE MACHINE ELEMENT
Charles J. Hudson, Eldorado, Kans.
Application August 10, 1938, Serial No. 224,158
6 Claims. (Cl. 74—589)

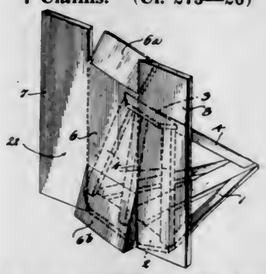


1. In a movab'e machine element, an arm comprising spaced substantially parallel parts; and a balancing weight including a body removably positioned between said spaced arm parts, and lugs protruding respectively from each side and at each end of said body and lying alongside the edges of said spaced arm parts, the body part and lugs being so proportioned relative to spaced arm parts, and the ends of the body part included between said lugs being so formed and proportioned as to permit angular or tilting movement of said weight in the direction of extent of said arm to facilitate removal of the weight, the body part yet having portions lying close to the respectively associated adjacent spaced arm parts when the weight is in operative position.

2,162,437
METHOD OF MAKING STEEL
Clarence D. King, Brooklyn, N. Y.
No Drawing. Application December 22, 1937, Serial No. 181,227
5 Claims. (Cl. 75—28)

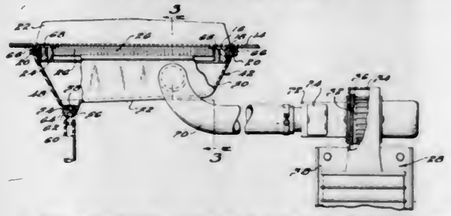
5. A steel making process comprising producing in a blast furnace a charge of pig iron containing over 5% Mn and over .70% P by adding to the usual burden sufficient phosphorus and manganese-containing slag materials to provide the additional manganese and phosphorus required over that of ordinary pig iron, blowing the pig iron in an acid Bessemer converter to remove therefrom the carbon and to convert the silicon and manganese content into an oxidized slag, separating the said oxidized slag from the metal, recovering the manganese content of said slag by utilizing the slag as part of the burden in a ferromanganese blast furnace, treating the Mn-free blown metal with a strongly basic oxidizing slag to remove the bulk of the phosphorus content therefrom and to form a P-containing slag suitable for use as a soil conditioner and treating the remaining metal with a second basic oxidizing slag to remove the balance of the phosphorus and other impurities to the extent desired in the forming of a steel of desired composition.

2,162,438
PITCHER'S TARGET
Henry P. Letarte, Graniteville, Vt.
Application December 12, 1938, Serial No. 245,306
7 Claims. (Cl. 273—26)



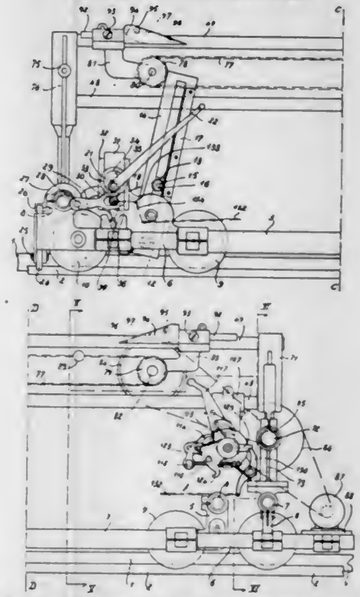
1. A target device of the class described, comprising a support, a panel carried by said support and disposed in a generally vertical position, the upper portion of said panel being rearwardly inclined, and the lower portion of said panel being forwardly inclined, with a generally vertical portion disposed intermediate said inclined portions.

2,162,439
VEHICLE VENTILATING AND HEATING APPARATUS
Alfred R. Lintern and Peter J. Miller, Detroit, Mich., assignors to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application March 26, 1937, Serial No. 133,171
6 Claims. (Cl. 98—2)



1. In a vehicle provided with a downwardly directed air inlet opening, a flexible bag-like member of resilient material within said body mounted in surrounding relation to said inlet opening, and an air conduit connected to said member and communicating with the interior of said vehicle for discharging air passed through said inlet opening into the interior of said vehicle.

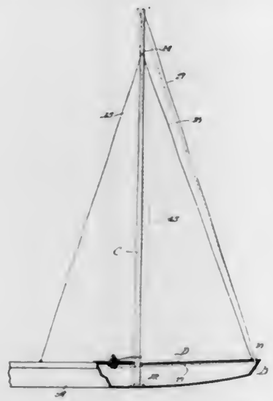
2,162,440
MACHINE FOR PRINTING DESIGNS ON FABRICS
Claudius Masson, Lyon, France
Application October 6, 1937, Serial No. 167,626
In France October 9, 1936
14 Claims. (Cl. 101—123)



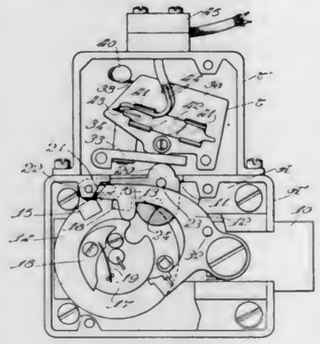
1. A machine for printing designs on fabrics or the like comprising in combination a table whereon the fabric is fixed in a stretched condition; rails on both longitudinal sides of said table; a carriage guided and supported by said rails; means to stop said main carriage at a number of positions along said table; a perforated printing surface carried by said main carriage; means on said main carriage to lower said perforated printing surface on said table and to raise it therefrom; a dye scraper adapted to spread dye on said perforated printing surface; a scraper-driving carriage adapted to reciprocate said dye scraper across said perforated printing surface; guiding means on said main carriage for said scraper-driving carriage; driving means on said main carriage to reciprocate said scraper-driving carriage; and a pivotal connection between said scraper and said scraper-driving carriage, said connection being longitudinally disposed with respect to said guiding means for permitting self transverse adjustment of said scraper on said perforated printing surface.

2,162,441
SAILBOAT MAST BENDING
Theodore E. Mead, Wilmette, Ill.
Application July 28, 1938, Serial No. 221,826
12 Claims. (Cl. 114—39)

1. In combination with a sail boat provided with a deck and a mast, said deck being provided with an elongated opening through which the mast freely extends, means for anchoring the bottom of the mast to the bottom portion of the boat, stays secured to the boat and engaging an intermediate portion of the mast to retain said intermediate portion against movement, and means carried by the deck of said boat and engaging an adjacent portion of said mast for bending said mast within the elongated opening of said deck.

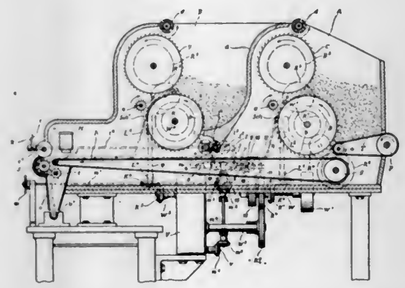


2,162,442
DELAYED CONTROL TIME LOCK
William C. Miller, Canton, Ohio, assignor to Diebold Safe & Lock Co., Canton, Ohio, a corporation of Ohio
Application November 24, 1934, Serial No. 754,673
6 Claims. (Cl. 200—45)



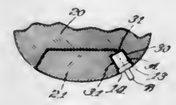
1. Lock mechanism comprising: a casing, a locking bolt, tumbler mechanism having actuating means and having a plurality of settings each of which controls the withdrawal of said bolt from its locking position, auxiliary guard means preventing the withdrawal of said bolt, timing mechanism adapted to render said guard means inoperative after a predetermined time, means actuated by said tubular mechanism in either one of said settings for starting said timing mechanism, a switch operable when said tumbler mechanism is in one only of said settings, and means driven by the timing mechanism for resetting the switch for another operation.

2,162,443
METHOD OF REGULATING THE TOBACCO ROD IN CIGARETTE-MAKING MACHINES
Carl Wilhelm Müller, Dresden-Weisser Hirsch, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co., Dresden, Germany, a corporation of Germany
Application July 30, 1932, Serial No. 626,797
In Germany August 4, 1931
23 Claims. (Cl. 131—39)



3. A feeding apparatus for feeding a substantially predetermined constant supply of material comprising an endless conveyor, a hopper located above said conveyor, means for feeding material from said hopper upon said conveyor, a second hopper located in series with said first hopper above said conveyor, means for feeding material from said second hopper upon the material fed by said first hopper to said conveyor and means located between said hoppers actuated by the material fed from said first hopper upon said conveyor controlling the feed from said second hopper.

2,162,444
DENTAL PIN
David W. Phillips, Chicago, Ill.
Application April 10, 1937, Serial No. 136,187
1 Claim. (Cl. 32—15)

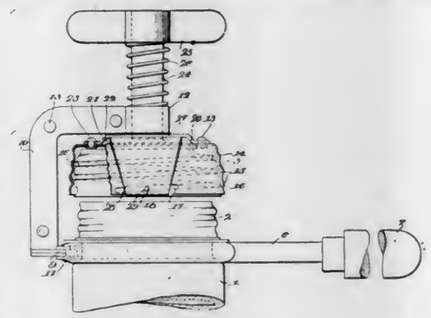


A dental pin for locking an inlay within a tooth structure, comprising a cylindrical pin body adapted to be received within a pin recess in the inlay and tooth structure with the exposed end of the pin body flush with the adjoining tooth surface, and a handle portion of reduced cross-section extending from the outer end of said pin body, the junction between said handle and said pin body being within and spaced from the circular border of said pin body.

2,162,445
JAR WRENCH
John C. Richel, Leechburg, Pa.
Application November 6, 1936, Serial No. 109,584
6 Claims. (Cl. 226—88)

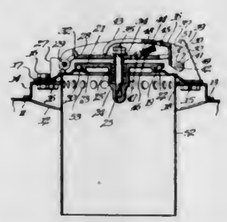
1. A jar wrench comprising jar-gripping means, a bracket upstanding from said jar-gripping means, a manually operable tightening member, a spiral cap-screwing spring having one

end anchored to a portion of said tightening member, and means swivelly carried by said



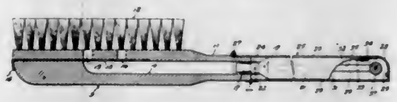
tightening member having the other end of said spring anchored thereto.

2,162,446
COVER MOUNTING AND LOCKING MEANS FOR THE TANKS OF TANK TRUCKS
Paul H. Scott, Long Island City, N. Y., assignor to The William F. Kenny Company, New York, N. Y., a corporation of New York
Application March 12, 1937, Serial No. 130,591
6 Claims. (Cl. 220—57)



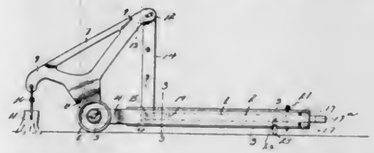
6. In a tank truck, a tank having a top opening, an arm pivoted at one side of said opening on a horizontal axis and being swingable between an upright position and a position in which it extends substantially horizontally across said opening, a cover for said opening carried by said arm, an upright catch member fixed at the opposite side of said opening from the pivoting axis of said arm, a lever pivoted to the free end of said arm on an axis parallel to said pivoting axis, said lever having at one end a handle portion extending along said arm toward the pivoted end of the latter and having an angular portion projecting past the free end of said arm, said angular portion comprising transversely spaced webs, a roller mounted between the free ends of said webs, said roller being positioned below the pivoting axis of said lever when said arm is in horizontal position, said roller being engageable by said catch member to hold the arm in horizontal position with the cover in closing relation to said opening, said catch member having a retaining shoulder for said roller and a cam surface surmounting said shoulder, said lever being manually swingable away from said arm to engage or release said roller or said lever being automatically swingable as said roller rides over said cam surface and beneath said shoulder when said cover falls to closed position in the absence of manual operation.

2,162,447
DENTIFRICE CONTAINING AND DISPENSING TOOTH BRUSH
Phillip H. Seibel, St. Louis, Mo.
Application August 9, 1938, Serial No. 223,971
3 Claims. (Cl. 221—60)



1. In a dispensing device of the class described, a tubular member, an elongated channel-shaped casing having one end closed and its other end having its web part hingedly connected with the tubular member, a closure plate for the open side of the channel-shaped member having one end hingedly connected with the tubular member, latch means for connecting the other end of the plate with the closed end of the channel-shaped member, the side walls of the channel-shaped member having elongated slots therein with one wall of each slot having rack teeth thereon, a roller in the channel-shaped member, toothed disks at the ends of the roller for engaging the rack teeth, a handle connected with one end of the roller and located exteriorly of the channel-shaped member, a flap hinged to the web of the channel-shaped member adjacent the closed end thereof for holding an end of a tube between itself and the web of the channel-shaped member, a spring for pressing the flap against that end of the tube and means for holding the mouth of the tube in register with the bore of the tubular member.

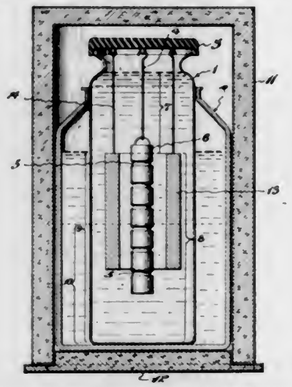
2,162,448
STUMP PULLER
Marion E. Sutton, Jacksonville, Fla.
Application December 2, 1938, Serial No. 243,668
6 Claims. (Cl. 254—8)



1. A stump puller comprising an elongated body member, wheels supporting the forward end of said body member, a rockable T-shaped lever mounted on the body member adjacent the forward end thereof, a longitudinally movable operating bar carried by the body member, a link connection between one of the arms of the T-shaped lever and the operating bar and means whereby one of the arms of the T-shaped lever may be attached to a stump.

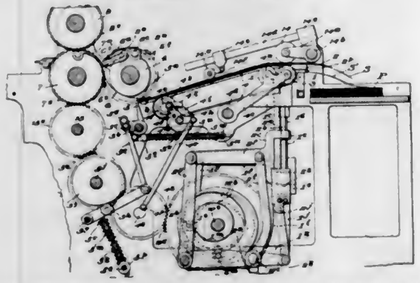
2,162,449
METHOD OF FERMENTING MILK
Heinrich Paul Thies, Stuttgart-Zuffenhausen, Germany
Application September 19, 1938, Serial No. 230,669
In Switzerland October 25, 1937
5 Claims. (Cl. 99—59)

1. In the manufacture of fermented milks, the steps which comprise introducing milk into a fermenting zone while at a sterilizing temperature, cooling the lower levels of said milk in said zone to temperatures substantially within the fermenting range, and passing a culture of bacterial into said lower levels and through the



upper layer of said milk before said upper layer has cooled below sterilizing temperatures.

2,162,450
FEEDING SHEETS TO PRINTING PRESSES, ETC.
Burt F. Upham, Grimsby, Ontario, Canada
Application March 11, 1938, Serial No. 195,378
20 Claims. (Cl. 271—27)

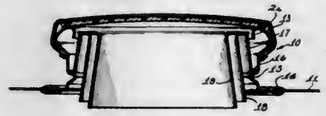


1. The method of feeding sheets from a pile to a receiver, consisting in transferring the sheet from the pile to receiver in two successive steps, by first lifting a sheet from the pile and moving it part way to the receiver; and second again lifting said sheet and delivering it to the receiver.

2,162,451
ESTER INTERCHANGE WITH ORGANIC ACIDS
Harald W. de Ropp, Charleston, W. Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 14, 1936, Serial No. 90,536
14 Claims. (Cl. 260—491)

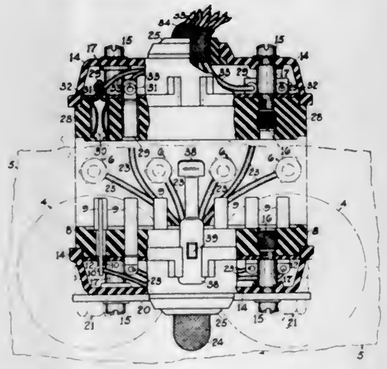
1. The method of interchanging the alkyl group of an aliphatic monocarboxylic acid ester for the replaceable hydrogen atom of an aliphatic monocarboxylic acid having a greater number of carbon atoms than are present in the acyl portion of the ester which comprises adding an azeotrope-forming agent to the reaction products, which agent forms a binary with only one of the reaction products, said binary having a lower boiling point than any of the reactan's or products, and removing the said b'nary by distillation.

2,162,452
EXTENSIBLE POURING SPOUT
William Elser, Toledo, Ohio, assignor to Owens-Illinois Can Company, a corporation of Delaware
Application August 9, 1938, Serial No. 223,899
5 Claims. (Cl. 221—27)



1. A pouring unit for a container having a discharge opening therein, comprising an extensible multi-sectioned spout having a fixed section extending from and secured to the container and surrounding the opening, said fixed section being provided with an annular restriction medially of its ends providing an internal annular seat, one or more movable sections telescopically nested within the fixed section and extensible therefrom, and means providing sealing engagement between the upper portion of the fixed section and the lower portion of the movable section next adjacent the former when the latter is extended therefrom, the lower edge of the specified movable section being adapted to seat upon said internal seat when the spout is collapsed.

2,162,453
DETACHABLE ELECTRICAL CONNECTOR
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application December 27, 1935, Serial No. 56,351
3 Claims. (Cl. 173—328)



3. In a plug connector, in combination, a support member, a receiving socket in the member for receiving a flat prong, the socket including a rigid U-shaped outer strip formed from a single strip of material and having an elongated pressed together finger extending from the base of the U, a resilient U-shaped contact member formed from a single piece of material and positioned in the outer strip with a pressed together finger held in the outer strip finger and with each leg of the contact member bowed inwardly toward the other and means on the support member for holding the legs so that each leg has each of its ends always bearing at a fixed position against a leg of the outer strip, and a longitudinally elongated inwardly pressed out portion in each of the contact member legs.

2,162,454

CUTTING COMPOUND

Walter S. Guthmann, Chicago, Ill., assignor to Production Oil Products, Inc., a corporation of Illinois

No Drawing. Application April 2, 1937, Serial No. 134,573
12 Claims. (Cl. 87—9)

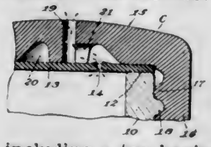
1. A straight cutting oil comprising a substantially non-aqueous mixture containing a major proportion of an oil and a minor proportion, of the order of about ½% or more, of a substance selected from the group consisting of ammonium and substituted ammonium soaps of a higher organic carboxylic acid, substantially free of oleic acid.

2,162,455

BOTTLE CLOSURE

John R. Hoge, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application June 14, 1937, Serial No. 148,021
2 Claims. (Cl. 215—56)



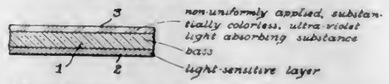
1. A closure including a top having a depending annular attaching flange, said top having a continuous circular annular groove formed in its lower side, a centrally disposed venting opening extending through the top and a radial groove connecting the annular groove and opening, and a circular resilient sealing disk disposed in the top, said disk being provided with an eccentrically disposed normally closed venting slit in register with the annular groove.

2,162,456

PHOTOGRAPHIC PRINTING MATERIAL

Wilhelm Krieger and Hans Buchner, Wiesbaden-Biebrich, Germany, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany

Application November 18, 1937, Serial No. 175,250
In Germany December 4, 1936
6 Claims. (Cl. 95—8)



1. Photographic printing material comprising a base, a uniform light-sensitive layer and a substantially colourless substance permanently capable of absorbing ultra-violet light applied non-uniformly to said material.

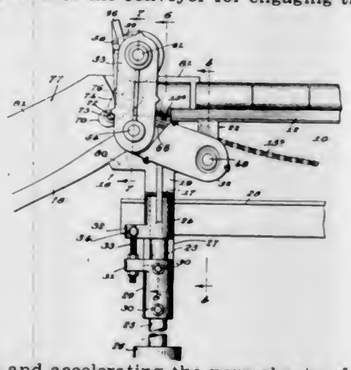
2,162,457

CAN TURNER

Ed Laxo, Baltimore, Md., assignor to Owens-Illinois Can Company, a corporation of Delaware

Application June 23, 1937, Serial No. 149,865
8 Claims. (Cl. 198—33)

1. The combination with the discharge end of a can body conveyor upon which can bodies are moved progressively at a uniform rate of speed in axial alignment, of a can body-turning device for changing the relation of the axes of the can bodies with respect to their line of motion comprising a pivot pin positioned in the path of movement of said can bodies eccentrically of the common axis of the moving can bodies and against which the forward rims of the can bodies are adapted to successively strike to cause the can bodies to be pivoted thereon, and means positioned between said pivot pin and the discharge end of the conveyor for engaging the can



bodies and accelerating the normal rate of speed thereof and projecting the same against said pivot pin.

2,162,458

HAIR DYE

Erich Lehmann, Priorau, Bitterfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application May 4, 1937, Serial No. 140,689. In Germany May 8, 1936
6 Claims. (Cl. 167—88)

1. A hair dye comprising the triacetyl compound of the general formula

$$x\text{—R}\begin{cases}\text{O.CO.CH}_3 & (1)\\ \text{O.CO.CH}_3 & (2)\\ \text{O.CO.CH}_3 & (4)\end{cases}$$

wherein R stands for a radicle of the group consisting of phenyl and naphthyl and x stands for a member of the group consisting of hydrogen, methyl, ethyl and hydroxyethyl.

2,162,459

SYNTHESIS OF ORGANIC ACIDS HIGHER THAN ACETIC ACID

Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application July 13, 1935, Serial No. 31,209, now Patent No. 2,135,452, dated November 1, 1938. Divided and this application January 27, 1938, Serial No. 187,225
7 Claims. (Cl. 260—532)

1. In a process for the preparation of compounds of the group consisting of aliphatic organic acids, higher than acetic acid, and their esters, the step which comprises reacting carbon monoxide, in the vapor phase and in the presence of a volatile catalyst containing boron and fluoride atoms, with a compound of the group consisting of saturated aliphatic monohydric alcohols, of higher molecular weight than methanol, and compounds which give such alcohols upon hydrolysis.

2,162,460

VISCOSE-CELLULOSE ETHER SOLUTION

Robert W. Maxwell, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 8, 1938, Serial No. 183,944
10 Claims. (Cl. 260—226)

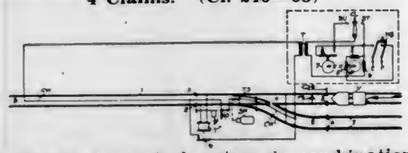
1. A viscose-cellulose ether solution in which not more than 1% of the regeneratable material is a cellulose ether capable of being dissolved in caustic alkali.

2,162,461

CODED TRAIN CONTROL SYSTEM FOR RAILROADS

Wade H. Reichard, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application November 27, 1936, Serial No. 112,856
4 Claims. (Cl. 246—63)



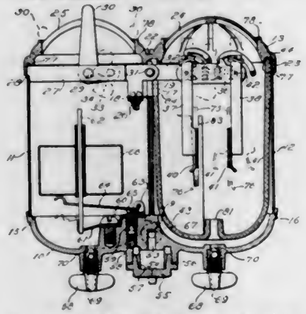
1. In a train control system, in combination, a stretch of main track including a turnout, an insulated track block including the turnout and ending just beyond the point where the turnout joins the main track, a track circuit including a track relay in the block, a circuit adjacent and paralleling the main track and including a contact of the track relay, wayside means for placing control energy on the circuit, and vehicle carried means responsive to the control energy.

2,162,462

HUMIDIFIER

Elmer A. Reid, Morrisville, Pa.

Application November 18, 1936, Serial No. 111,383
24 Claims. (Cl. 219—38)



12. In a humidifier, a base portion, a float receptacle and an evaporating receptacle mounted on said base portion, said base portion being provided with a duct leading from said float receptacle to said evaporatng receptacle, a vented cover for said evaporating receptacle, electric heating means in said evaporating receptacle, means for automatically admitting liquid to said float and evaporating receptacles, and means to prevent excessive boiling and boiling over of said liquid in said evaporating receptacle comprising means forming a communicating passage between the upper portions of said float and evaporating receptacles.

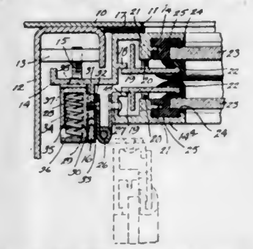
2,162,463

COMPENSATING HINGE FOR CAR WINDOW STRUCTURES

Joseph Schunk, Newark, N. J., assignor to The National Lock Washer Company, Newark, N. J., a corporation of New Jersey

Application May 18, 1937, Serial No. 143,318
2 Claims. (Cl. 16—129)

1. In a hinging structure comprising a hinged part and a fixed part, compensating hinge mounting means comprising a flange arranged to project outwardly from said fixed part and said flange having laterally extending slots, a spring pressed sliding block member disposed at one side of said flange and having projections extending through said slots, and a two-leaf



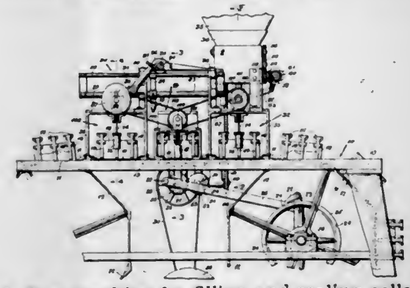
hinge having a leaf secured upon said projections and a leaf adapted to be secured to said hinged part.

2,162,464

APPARATUS FOR FILLING AND CLOSING COLLAPSIBLE METAL TUBES

Gustav A. Soderberg, Bridgeport, Conn., assignor of one-half to The Bodine Corporation, Bridgeport, Conn., a corporation of Connecticut

Application May 17, 1934, Serial No. 726,033
8 Claims. (Cl. 226—75)



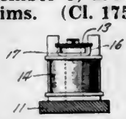
8. In a machine for filling and sealing collapsible metal tubes, means for filling a tube with liquid or semi-solid material through an open end of the tube; means operating intermediate successive filling operations for moving said tube away from filling position; means for pressing said open end closed following a filling operation but before an operation of said moving means; and means for welding the pressed closed end of said tube to seal the tube, after the last-mentioned operation of said moving means.

2,162,465

ELECTRIC MAGNET

Walter Van Guilder, Oak Park, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Application September 5, 1936, Serial No. 99,673
5 Claims. (Cl. 175—338)



1. In combination in an electromagnet, a core consisting of a bar of magnetic material, a magnetic yoke and a conducting ring, said yoke having a planar portion with an opening therein for fitting onto said core, said magnetic yoke having also an ear of magnetic material extending out of the plane of said planar portion, the opening in said conducting ring being of such size as to

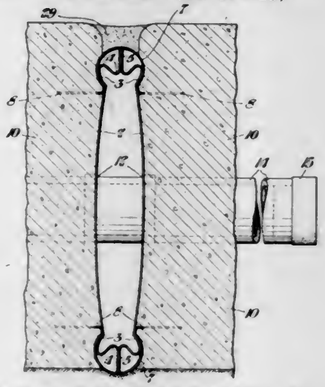
admit the end of said core, said ring and yoke being positioned on said core with said ring at the end of said core and said yoke next to said ring on the side thereof away from said end of said core, said ear extending outside of and around said ring towards said end of said core.

2,162,466
CLASP
Percy L. Wood, Attleboro, Mass., assignor to Swank Products, Inc., a corporation of Delaware
Application October 15, 1937, Serial No. 169,107
2 Claims. (Cl. 24—251)



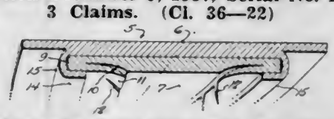
1. A clasp comprising a pair of jaw members pivoted together intermediate their ends, a locking member having a part slidable upon the inner surface of one jaw member, and a resilient cam formation with a contact portion slidably engaging the inner surface of the other jaw member, limiting means on said locking member permitting the cam to move from a position where said contact portion is in perpendicular alignment with the pivot and jaws to a position toward either end of the jaws to thereby move the jaws to open or closed position about said pivot point, said resilient cam formation flexing as it is moved toward and from said pivot to compensate for different distances between said contact portion and slide portion and maintaining firm engagement against said jaws at all positions of movement to keep the jaws under control.

2,162,467
JOINT
Alan E. Brickman and George A. Gleason, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application June 13, 1936, Serial No. 85,161
2 Claims. (Cl. 94—18)



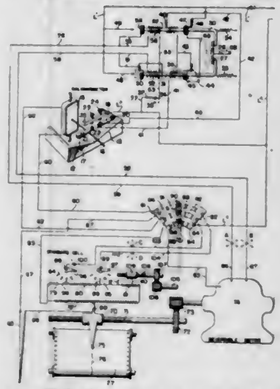
1. A trans-load expansion joint for concrete roads and the like comprising a pair of individual sheet-like side-wall members, adapted to substantially abut the ends of the adjacent sections of the road, the upper and lower edges of said individual sheet-like side-wall members being reversely curved in directions toward each other and embodying flat vertically extending end portions, the adjacent vertically extending flat end portions of said sheet-like side-wall members being connected together, sleeves for enclosing the upper and lower edges of said side-wall members including the reversely curved and vertically extending flat joined end portions thereof, flanges extending from each of said sleeves into the ends of the sections of the road, and a rigid one-piece dowel member extending through said side-wall members and into each of the adjacent sections of the road to transfer loads from one section to the other and prevent relative vertical movement thereof.

2,162,468
INSOLE
Herbert M. Germanson, Milwaukee, Wis.
Application December 9, 1937, Serial No. 178,946
3 Claims. (Cl. 36—22)



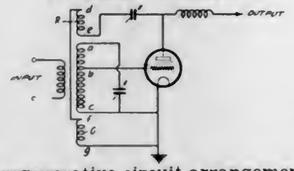
1. A shoe sole of the character described comprising: two superimposed laminae, one of which is larger than the other so that the edge of the sole has a stepped formation; the edge of the larger lamina being split into two plies, and the ply adjacent to the smaller lamina being folded over the edge and lower marginal portions of said smaller lamina to form an enlarged shoulder therewith against which the shoe upper may be firmly drawn during the inseaming operation.

2,162,469
AUTOMATIC CONTROL SYSTEM
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application May 21, 1932, Serial No. 612,735. Divided and this application August 4, 1936, Serial No. 94,143
11 Claims. (Cl. 177—351)



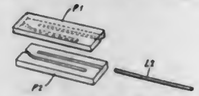
1. In a self-balancing measuring instrument, the combination with measuring circuit means including a resistor and a contact engaging said resistor, said contact and resistor being relatively adjustable to vary the point along the length of said resistor at which the latter is engaged by the contact, a reversible rotatable electric motor adapted to relatively adjust said contact and resistor to thereby adjust the point of their engagement along the length of said resistor in one direction or the other accordingly as the motor is rotated in one direction or the other, a device adapted to be connected to said circuit and to a source of variable electromotive force for actuation in a direction and to an extent selectively dependent on the direction and extent of change in said force, and periodically operating control means through which said device periodically energizes said motor for operation in a direction and for a period of time selectively dependent on the direction and extent of the then current actuation of said device.

2,162,470
REGENERATIVE CIRCUIT ARRANGEMENT
Wolfgang Kautter, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application February 26, 1937, Serial No. 127,846
In Germany February 26, 1936
5 Claims. (Cl. 250—27)



1. A regenerative circuit arrangement for radio waves comprising an electron discharge device having at least an anode, grid, and cathode, an oscillation circuit, a regenerative coil coupled to said oscillation circuit, an anti-regenerative coil coupled to said oscillation circuit, a tapped portion on said oscillation circuit, said tapped portion being connected to the grid and cathode of said electron discharge device, said regenerative coil and anti-regenerative coil being connected together in series with the plate and cathode of said electron discharge device.

2,162,471
ELECTRIC CONDENSER
Kurt Marquardt, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany
Application February 27, 1935, Serial No. 8,465
In Germany March 8, 1934
4 Claims. (Cl. 175—41)



1. An electric condenser having a small capacity comprising rigid metallic electrodes and two insulating plates, each plate having preformed indentations equal to one-half the cross-sectional area of said electrodes to retain said metallic electrodes in a predetermined spaced relationship.

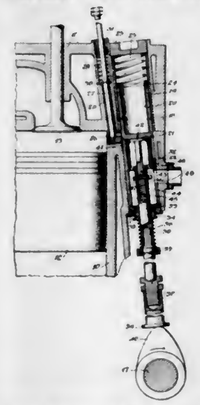
2,162,472
MACHINE FOR CLOSING AND SEALING ARTICLES IN CELLULOSE TUBES
Lou Scharf, New York, N. Y., assignor to The Riverside Company, New York, N. Y., a partnership consisting of David Scharf, Joseph Scharf, and Lou Scharf
Application May 12, 1937, Serial No. 142,157
4 Claims. (Cl. 226—2)

1. In a machine for press sealing articles in cellulose tubes, a die and means for imparting active movements thereto, an article holder adapted to hold a plurality of articles in spaced relation, means for moving the article holder step-by-step to carry the articles successively into register with the die, a cellulose tube holder adapted to position successive tubes each into register with an article held by the first carrier



in advance of the die, and means for bodily moving successive tubes each onto an article held by its carrier between movements of the latter, said last named means being adapted to act upon the tube in successive idle positions of the article carrier between movements thereof.

2,162,473
OIL ENGINE
John F. Anders, Kitchawan, N. Y.
Application January 21, 1938, Serial No. 186,076
6 Claims. (Cl. 123—143)

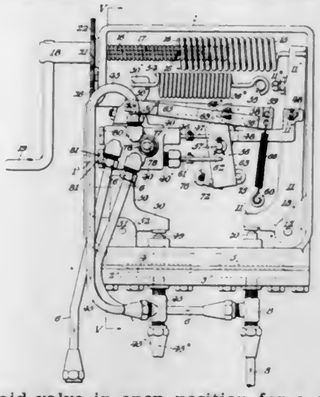


1. An injector assemblage for an oil burning engine comprising an injection nozzle, a valve for normally closing said nozzle, a tubular member continually in communication with said nozzle, a pressure head slidingly mounted in said tubular member, a spring for moving said head to one extreme position, means for limiting the movement of said pressure head in one direction so that its end will be substantially in line with said nozzle, a piston in said tubular member for pressing a combustible mixture against said pressure head until said head has moved against the action of said spring away from said nozzle and until the mixture is ignited, means for causing said piston to function, and means for opening the valve in said nozzle at the time said mixture has reached the ignition point.

2,162,474
FLUID DISPENSING APPARATUS
Virgil D. Barker, Westfield, N. J.
Application May 23, 1938, Serial No. 209,422
13 Claims. (Cl. 221—73.5)

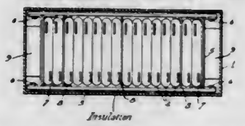
1. In fluid dispensing apparatus, the combination of a source of fluid under pressure; a conduit adapted for connection with a receiver; a valve between said source and said conduit; means in operating relation to said valve; pressure sensitive means connected to said conduit and adapted to transfer an actuating impulse to said first

means when the pressure in the conduit falls to that at which the apparatus is adjusted; said first means comprising means, responsive to said actuating impulse, to open said valve, to main-



tain said valve in open position for a predetermined period, and to close said valve in a cycle; whereby said cycle is completed, each time it is initiated, without further influence from said pressure sensitive means.

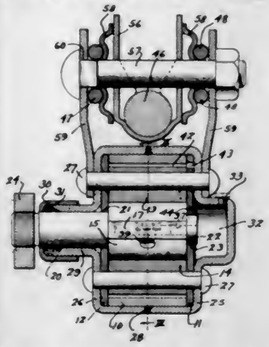
2,162,475
POWER CAPACITOR
Hamilton Brooks, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1938, Serial No. 187,714
8 Claims. (Cl. 175—41)



1. A power capacitor comprising a case containing a liquid dielectric, a plurality of capacitor sections, a single rigid member of insulating material fitting closely in the case for holding said capacitor sections in position and insulating them from the case, and means for securing the capacitor sections in said member.

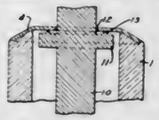
2,162,476
SHOCK ABSORBER FOR BICYCLES AND SIMILAR TYPE VEHICLES
Anthony B. Casper, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York
Application January 17, 1938, Serial No. 185,290
3 Claims. (Cl. 188—89)

1. A hydraulic shock absorber adapted particularly for association with the saddle of a bicycle or the like for modifying the action of the saddle spring suspension assembly, comprising a cylindrical ring, hydraulic chamber defining partitions extending radially inwardly from said ring at diametrically opposite sides thereof, side walls in the form of disks engaging the ends of said ring and said partitions, a piston structure comprising a hub extending between said side walls and said partitions and having a driving shaft extending outwardly through one of said side walls, vanes on said hub, an enclosing housing comprising cup shaped halves receiving said ring and said side walls, bolts extending through said housing halves, said side walls and said partitions for securing said parts together axially, a lever extending from the piston structure shaft, a supporting arm extending from one



of said bolts for supporting the shock absorber, oscillation of said piston structure causing displacement of hydraulic fluid on one side of said partition to the other, and means for controlling the hydraulic flow.

2,162,477
VAPOR ELECTRIC DEVICE
Joseph H. Cox, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 21, 1938, Serial No. 236,210
5 Claims. (Cl. 250—27.5)

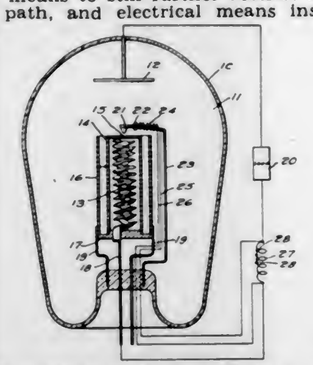


1. An electrode bushing assembly for a vapor electric device comprising a tubular glass bushing having frusto-conical end surfaces, a tubular end piece having a flared end conforming in shape to the end of said bushing, a cap piece conforming in shape to the end of said bushing, said end piece and said cap piece composed of a nickel, iron, cobalt alloy containing 24% to 34% nickel and 5% to 25% cobalt and being fused to said bushing, said end piece and said cap being of less diameter than the outer diameter of said bushing so that the fused glass envelops the edge of said end and cap pieces, said cap piece having an opening therein, an electrode stem extending through said opening, a collar on said stem and a projection weld between said collar and said cap.

2,162,478
GAS-FILLED TUBE IN WHICH THE CURRENT IS LIMITED
Hymen Diamond, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 20, 1937, Serial No. 160,010
5 Claims. (Cl. 250—27.5)

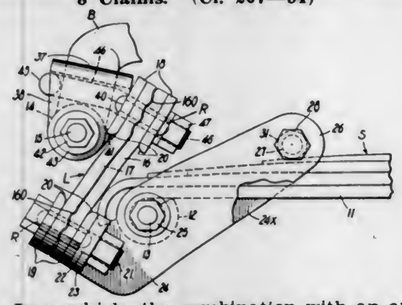
1. An electric discharge device comprising a container, a gaseous medium therein, an anode and an electron emitting cathode, means restricting the discharge path between said anode and

cathode means to still further restrict said discharge path, and electrical means inside the



container having leads through said container wall to operate said still-further restricting means.

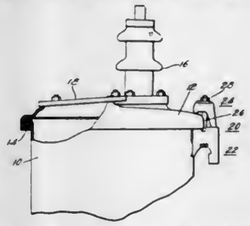
2,162,479
VEHICLE SHACKLE
Dale B. Flickinger, Toledo, Ohio, assignor to The Belflex Corporation, Toledo, Ohio, a corporation of Delaware
Application July 14, 1937, Serial No. 153,466
8 Claims. (Cl. 267—54)



1. In a vehicle, the combination with an axle, provided with a supporting bar having an elongated eye transfixed by an eye-bolt; of a spring having leaf components and provided with an eye and an eye-bolt; an inextensible flexible tension shackle; a U-bolt attaching said shackle to said axle bar; clamping members impaled upon the first-mentioned eye-bolt in clamping relation to the axle bar and to the U-bolt and means to attach said shackle to the spring, comprising a pair of bracket-plates each having a body orifice transfixed by said eye-bolt of the spring, and each having an offset lug bolted to said flexible shackle, said pair of plates being assembled in opposed position, one at each side of the end portion of the spring, and a bolt extending between the free ends of said bracket plates, connecting them above the spring leaves; the bracket plates being firmly held by said last named bolt and the eye-bolt of the spring in embracing contact with the sides of the spring.

2,162,480
COVER CLAMP
Allan D. Forbes, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 23, 1937, Serial No. 165,267
2 Claims. (Cl. 220—55)

2. A clamp assembly for securing a cover on a case comprising, a hollow lifting hook having spaced side walls terminating in spaced feet for seating on the case, means for securing the lifting hook to the case, a holding member for engaging the cover associated with the lifting hook, the holding member carrying a tail piece for seating on the upper edges of the side walls of the lifting hook when it engages the cover, a lug carried by the tail piece projecting downwardly between the side walls and cooperating with the lifting hook to permit the extent of movement of the holding member when engaging the cover, the lower edge of each of the side walls of the lifting hook having a notch disposed therein, and means comprising a bolt and associated nut disposed in a substantially vertical position between the side walls of the lifting hook and projecting



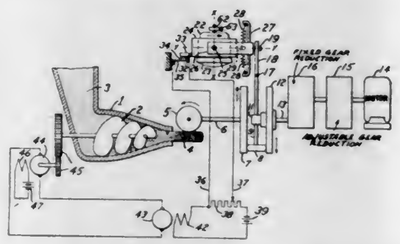
through the holding member between the cover engaging portion and the tail piece thereof for cooperating with the lifting hook and the holding member to insure a tight engagement of the holding member with the cover, the bolt head of the bolt seating in the notches in the lower edges of the lifting hook to prevent rotation of the bolt when holding the holding member and the cover in tight engagement, the nut associated with the bolt being disposed for movement to permit the holding member to disengage the cover and to be lifted from its seat on the lifting hook and so turned that its tail piece and the lug carried thereby clears the space between the side walls of the lifting hook whereby it may be dropped to rest on the lifting hook free from the cover.

2,162,481
TRAILER COUPLER
Wilbur C. Fry, New York, N. Y.
Application December 22, 1937, Serial No. 181,065
3 Claims. (Cl. 280—33.44)



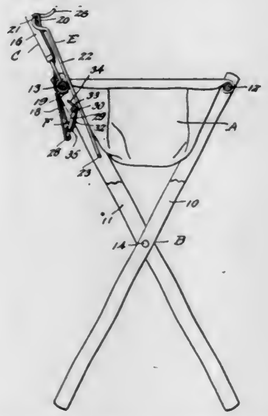
1. A coupling for a trailer including a draw-bar, a pair of journal brackets adapted to be rigidly secured to an automobile forwardly of the rear end thereof, a rock bar carried by said journal brackets, a frame rigidly secured to said rock bar, said frame and rock bar swinging in a vertical plane when in use, said frame being substantially elliptical in shape with the front presenting an arc-shaped member and the rear a pair of rearwardly converging bars, and means for securing the forward part of said draw-bar to said frame so that the front end will normally rest on said arc-shaped member while the entire draw-bar swings horizontally independently of said frame and vertically with said frame, said means including a pin secured to said converging bar at the point of convergence, an apertured member into which said pin extends, and yielding means connecting said apertured member with said draw-bar.

2,162,482
REGULATOR WITH GYROSCOPIC ANTIHUNTING
Clinton R. Hanna, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 19, 1937, Serial No. 149,186
9 Claims. (Cl. 172—239)



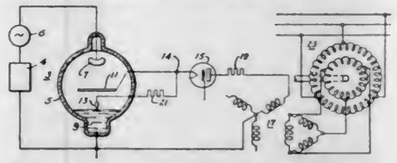
1. In a regulator equipment, an inertia element constantly rotating about an axis, means for moving said inertia element about an axis at right angles to its axis of rotation in accordance with the variation in a regulated quantity from its desired value, means sensitive to the movement of said rotating element about an axis at right angles to each of said above two-named axes, and means governed by said movements about the last two-named axes for controlling a corrective influence to return the regulated quantity to its desired value.

2,162,483
INFANT'S BATHING DEVICE
Dewey M. Kennedy, Rochester, N. Y.
Application August 30, 1938, Serial No. 227,448
10 Claims. (Cl. 4—177)



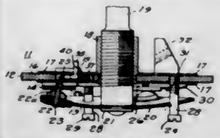
1. In an infant's bathtub and associated support therefor, a flexible dressing table adapted to be moved to a stretched active horizontal position in spanning relation to opposite side edges of and overlying the tub, and automatic means for taking up the slack and stretching the table in an upright position exterior of the tub when said dressing table is moved from active to inactive position.

2,162,484
VAPOR ELECTRIC CONVERTER
Hans Klemperer, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 13, 1938, Serial No. 184,835
6 Claims. (Cl. 175—363)



1. A vapor electric converter comprising an evacuated container, an anode, a mercury cathode, an auxiliary electrode between said anode and said cathode, an igniter electrode in contact with said cathode, a source of exciting current connected to said auxiliary electrode and said igniter electrode for initiating a cathode spot at the igniter rod-mercury junction, another source of exciting current lagging in phase relationship with respect to said igniter current for maintaining a rectifying arc between said cathode and said anode and a unidirectional device for preventing transfer of the cathode terminal of said arc to said auxiliary electrode at the transition point of said igniter current until said rectifying arc is extinguished.

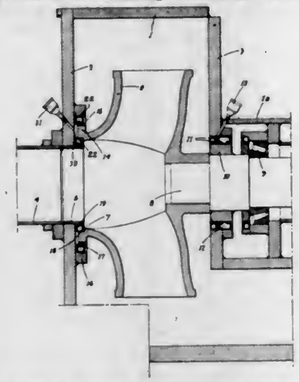
2,162,485
MANUAL RESET THERMOSTAT
Paul R. Lee, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1937, Serial No. 150,502
4 Claims. (Cl. 200—138)



1. In a thermostat, a base, a heat-responsive member, a circuit-maker and breaker comprising a stationary contact insulatedly mounted upon said base and a cooperating movable contact insulatedly mounted upon said heat-responsive member, said movable contact having a stem movable therewith, and means including said stem for restricting the mating of said contacts.

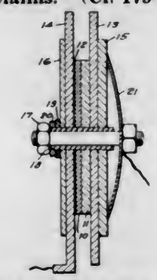
2,162,486
SEALING MEANS FOR CENTRIFUGAL PUMP IMPELLERS
Robert Gilmore Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Peoria, Ill.
Application June 21, 1937, Serial No. 149,299
2 Claims. (Cl. 103—111)

1. A sealing gland for a pump including a housing, a rotary impeller in the housing and having an annular portion, the housing including an alined corresponding portion spaced from and parallel to said annular portion of the impeller, an annular cage of channel shape in cross section mounted on one of said portions and open in the direction of the other portion, and an annular cup leather of right angle form disposed in the cage with one flange of the leather engaging said other portion in sealing relation, and the other



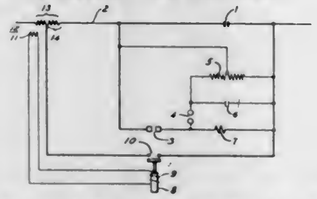
flange of the leather engaging the inner face of one side of the cage in sealing relation.

2,162,487
SELENIUM RECTIFIER
Albert Lotz, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 20, 1937, Serial No. 160,054
In Germany September 28, 1936
2 Claims. (Cl. 175—366)



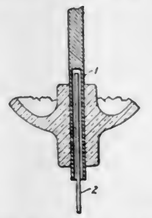
1. The method of preparing a rectifier which comprises removing substances injurious to the rectifying function from selenium and metal contact members and then assembling said members in contact with said selenium.

2,162,488
SERIES CAPACITOR PROTECTIVE SYSTEM
Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 5, 1938, Serial No. 194,157
3 Claims. (Cl. 175—294)



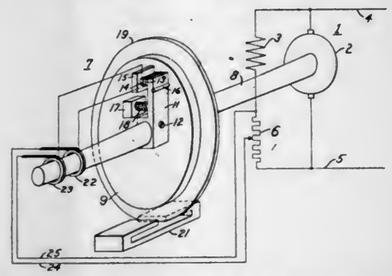
1. A series-capacitor equipment for an alternating-current circuit, comprising the combination, with the series capacitor, of a main gap-device shunting said series capacitor, a bypass contactor having contacts in shunt to said main gap-device, a series transformer having two primary-winding portions and a secondary circuit, a coil for operating said contactor from energy derived from said secondary circuit, and connections whereby one of said primary-winding portions may be energized in series with said alternating-current circuit, and whereby the other of said primary-winding portions may be opposingly energized in series with said contactor-contacts.

2,162,489
LEAD WIRE CONSTRUCTION
Kurt Matthies, Berlin-Siemensstadt, and Hartmut Ganswindt, Berlin-Friedenau, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application March 9, 1938, Serial No. 194,800
In Germany May 5, 1937
3 Claims. (Cl. 250—27.5)



1. A sealing-in wire for tubes formed from a sheath of an alloy of 5% to 30% from the iron group and the remainder from the group consisting of tantalum and columbium and a conductive core for said sheath.

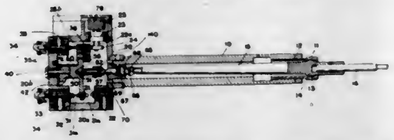
2,162,490
SPEED REGULATOR
Stanley J. Mikina, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 16, 1937, Serial No. 164,159
6 Claims. (Cl. 200—52)



3. In a speed regulating system for an electric motor wherein the motor speed is controlled by operation of a pair of cooperating contact members, the combination with a shaft driven in accordance with the motor speed, a flywheel loosely mounted rotatively on said shaft, damping means for resisting the rotation of said flywheel, an arm extending from said shaft for driving said flywheel, an abutment on said flywheel and resilient

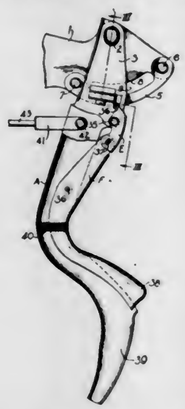
coupling means between said arm and said abutment, a contact member carried by said flywheel and a cooperating contact member carried by said arm.

2,162,491
TRACER FOR DUPLICATING MACHINES
Oscar E. Rosen, Detroit, Mich.
Application December 15, 1937, Serial No. 179,945
12 Claims. (Cl. 90—62)



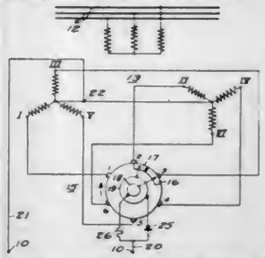
1. In a tracer for electrically controlled duplicating machines, a tracer finger, a pair of electric contacts, a contact carrying arm arranged to complete a circuit through either of said pair and located between them, means for rapidly oscillating said arm in a path shorter than the distance between said pair, and means actuated by said finger for moving said oscillating arm bodily toward one or the other member of said pair whereby rapidly repeated contact is made between said arm and said member.

2,162,492
FRICTION BRAKE LEVER
Ray A. Sandberg and Ernest J. Van Sickel, Waukegan, Ill., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 29, 1938, Serial No. 204,963.
11 Claims. (Cl. 74—531)



1. In an automotive vehicle emergency brake lever construction, a mounting plate, a lever pivoted to said plate with legs astraddle the same, rollers carried by said lever and disposed to engage opposite faces of said plate to hold the lever in adjusted position, cage members oscillatably supported on said lever for maintaining said rollers against said plate, abutment members carried by said cage members for holding said rollers against said plate, spring means acting between said cage members and said abutment members for normally maintaining said rollers in frictional engagement with said plate, and means operable for shifting the cage members to release the rollers from holding engagement with the plate.

2,162,493
CONVERSION SYSTEM
Eberhard Schütz, Berlin-Steglitz, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 27, 1937, Serial No. 176,830
In Germany December 21, 1936
4 Claims. (Cl. 175—364)



1. An electric current translating system for connection between an alternating current circuit and a direct current circuit comprising a winding having a plurality of phase terminals and a mid terminal, contact elements connected to said phase terminals, said mid terminals being connected to one side of said direct current circuit, a contact device for successively making and breaking contact between the other side of said direct current circuit and said phase terminals, a plurality of contact elements on said contact device, the total length of said contact elements on said contact device being sufficient to make contact with all of the simultaneously active phase terminals, one of the contact elements of said contact device being a make contact and another being a break contact, the make contact being directly connected to the direct current circuit through a resistor element and a unidirectional conductor connected between the break contact and the direct current circuit.

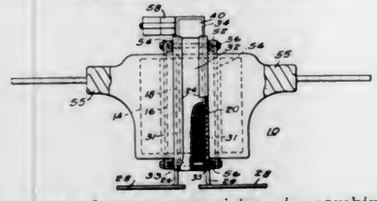
2,162,494
CONCENTRATION OF PHOSPHATE ORES
William Trotter, San Francisco, and Eltoft Wray Wilkinson, Berkeley, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Application August 20, 1934, Serial No. 740,600
2 Claims. (Cl. 209—166)

1. A process of concentration comprising admixing with a phosphate-bearing ore, in a suitably divided state and relatively free from slimes, a non-frothing organic liquid immiscible with water and a compound included in the class consisting of acids derived from phosphoric acid by replacement of hydrogen with aliphatic hydrocarbon groups of at least twelve carbon atoms and the salts of said organic-phospho acids with salt-forming bases; and separating in an aqueous pulp the phosphate values from the ore.

2,162,495
CONCENTRATION OF ORES
William Trotter, San Francisco, and Eltoft Wray Wilkinson, Berkeley, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Original application August 20, 1934, Serial No. 740,600. Divided and this application January 24, 1938, Serial No. 186,586
17 Claims. (Cl. 209—166)

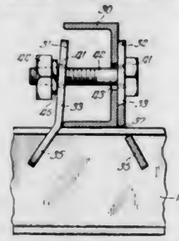
1. The process of concentrating ores which comprises admixing with the ore, in a suitably divided state and relatively free from slimes, a non-frothing organic liquid immiscible with water and a derivative of a thiocarbonic acid containing the residue of an aliphatic alcohol of at least twelve carbon atoms; and separating in an aqueous pulp the mineral values from the ore.

2,162,496
TRANSFORMER
Edward C. Wentz, Sharpsville, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1937, Serial No. 182,483
5 Claims. (Cl. 175—358)



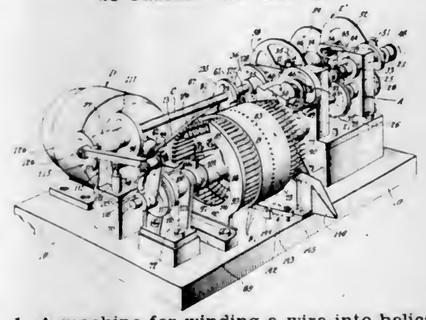
1. A transformer comprising, in combination, a core member formed from a plurality of laminations and having a plurality of legs and upper and lower yoke members, a plurality of coil members disposed about one of the legs of the core member, a plurality of end frames disposed in spaced relation to each other on opposite sides of the core member, each of said end frames being a substantially rectangular frame having an open end therein for slipping the frame over the coil members, means for maintaining the end frames spaced, said means comprising spacer members between the end frames and bolts projecting through the end frames to retain them tightly against the spacer members, certain of the bolts also functioning to loosely carry the laminations of the core member between the end frames free from compressive forces, the spacer members being of a size sufficient to cooperate with the end frames to substantially enclose the upper yoke member and the other leg member of the core, and means for rigidly attaching the coil members to the end frames to prevent relative movement therebetween.

2,162,497
BARREL RACK
Arthur M. Barrett, Winnetka, Ill., assignor to Barrett-Cravens Company, Chicago, Ill., a corporation of Illinois
Application April 13, 1936, Serial No. 74,070
6 Claims. (Cl. 189—35)



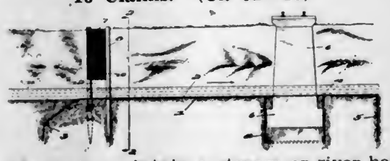
1. A clamp assembly for securing together a pair of structural shapes or the like comprising, in combination, a pair of clamp members provided with oppositely turned portions each having a slotted opening therein and arranged and adapted to engage the under side of a flange of one of the shapes and flat portions between which the other shape may be positioned, and a retaining member extending through said flat portions and said other shape to provide the required clamping action.

2,162,498
MACHINE FOR AND METHOD OF WINDING HEADLIGHT COILS
Raymond H. Beebe, Bridgeport, Conn., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1935, Serial No. 39,530
Renewed November 19, 1938
23 Claims. (Cl. 153—67)



1. A machine for winding a wire into helically coiled lamp filaments comprising a plurality of coil winding mandrels, means for winding a coil of wire on one mandrel, means for terminating the winding operation, means for changing the relative position of said coil-winding means and said coil-winding mandrel to produce a straight portion of wire, and means for actuating the coil winding means to wind another coil of said wire on another mandrel prior to severing the first coil from the supply wire.

2,162,499
STREAM BED PROTECTION MEANS
Russell J. Borhek, Washington, D. C.
Application November 17, 1938, Serial No. 241,032
13 Claims. (Cl. 61—46)

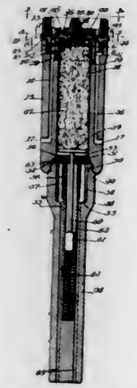


1. Means to maintain a stream or river bed at a desired level, comprising meshlike mat arranged substantially on the surface of the bed, the upstream end of said mat extending into said bed at an angle to the plane of the bed whereby the mat is securely anchored at its upstream end at a substantial distance below the normal level of said bed.

2,162,500
SMOKING TUBE
Edmund Bruder, Chicago, Ill.
Application March 2, 1938, Serial No. 193,430
13 Claims. (Cl. 131—191)

1. A smoking tube of the character described

embodying a tubular section open at both ends and constituting a tobacco chamber, a closure unit for one end of the chamber, said unit embodying a hollow member having an apertured wall at one end and open at the other end, means detachably connecting said unit with one end of said section, a portion of the unit extending for a substantial distance into the said chamber, a shoulder on the unit abutting the adjacent end of said section, an abutment member forming a part of said unit and disposed within the said hollow member and abutting said wall, said abutment having openings therethrough adapted to be brought into and out of register with openings in said wall by rotation of the abutment, a cap member also constituting a part of said unit, said cap member also having openings therethrough, said wall also provided with an aperture, means connecting said abutment and said cap member through said aperture for simultaneous rotation with respect to said wall, a stem member detachably secured to the other end of said tubular section, and means within said chamber for urging the tobacco towards and against said abutment.



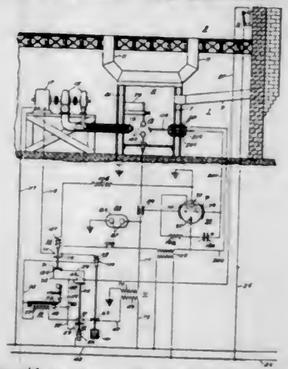
5. A smoking tube formed of a plurality of alined sections, one of said sections being open at both ends and constituting a tobacco chamber adapted to be filled from either end thereof, a stem detachably secured to one end, and a cap element detachably secured to the other end of the said open section, and an air circulation space within the wall of the chamber section and encompassing the chamber, there being openings through the periphery of said chamber section communicating with said space, there being also openings through said cap element communicating with said space whereby an unobstructed air circulation space will be formed around said chamber and opening through the cap element.

6. A smoking tube of the character described embodying axially alined sections separably secured together, one of said sections being hollow and constituting a tobacco chamber, another section constituting a stem, the end of the stem extending across the said chamber, an opening in said stem extending lengthwise thereof and opening through said end, a chamber opening through the end of the stem and encompassing the last said opening, a bushing member engaging and resting upon the said end of the stem and being gripped between the end of the stem and a portion of the wall of the chamber section and having openings providing communication between the tobacco chamber and the said chamber in the stem, finger elements depending from said bushing and extending into the chamber in the stem, a filter within the last said chamber and encompassing said fingers, a follower in the tobacco chamber, a stem on said follower passing freely through the bushing member, and means in the first said stem for urging the follower in one direction.

2,162,501
CONTROL APPARATUS

Thomas Draper, Millington, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 6, 1937, Serial No. 129,501
9 Claims. (Cl. 158—28)



1. Combustion control apparatus comprising means for supplying a fuel to be burned, means, including a spark gap, to ignite said fuel, a first circuit for supplying potential to produce and maintain a spark in said gap, an electric discharge device for controlling said supplying means, a second circuit for supplying energy to said electric discharge device, means for so coupling said first and second circuits that said discharge device is energized by reason of the high frequency field produced by a spark in said gap and means for preventing the occurrence of a spark in said gap such as would energize said discharge device energized when the gap is too wide to produce a proper ignition spark for combustion.

2,162,502
INSECT TRAP

Alexander Goulard, Westfield, N. J.

Application December 24, 1937, Serial No. 181,626
6 Claims. (Cl. 43—107)

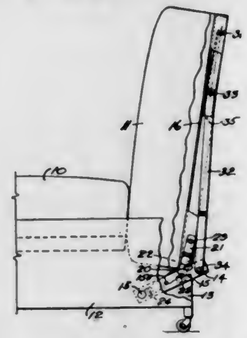


1. An insect trap comprising an open-ended upright funnel, and a cruciform baffle having its lower portion fitting into said funnel and formed by a pair of vertical plates having medial slotted tapering lower portions arranged to detachably interlock, with the plates in intersecting normal planes, a circular top plate extending over the top edges of said baffle plates, means for detachably interlocking said baffle plates and top plate, and a wire bail detachably connected to diametrically opposite portions of said funnel and extending over said top plate and holding said baffle and top plates in assembled position in said funnel.

2,162,503
STUDIO COUCH

Daniel R. Gunn, Jr., Memphis, Tenn., assignor to U. S. Bedding Company, Memphis, Tenn., a corporation of Georgia

Application May 5, 1938, Serial No. 206,166
6 Claims. (Cl. 5—38)



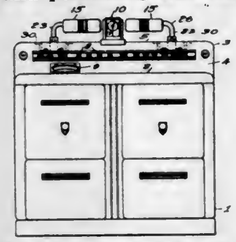
1. A studio couch including a frame, a stationary seat section supported by the frame with its rear side spaced from the rear side of the frame, a back section, means to connect the back section to the frame for movement to vertical and horizontal positions with respect to but independent of said seat section, said connecting means including spaced pairs of links each having one of their ends connected to the frame below the plane of the seat section and their opposite ends connected to the adjacent portion of the back section below the plane of the seat section and being disposed, whereby when the back section is moved to a vertical position a portion thereof will be positioned below and in engagement with the rear side of the seat section, and when the back section is moved to a horizontal position its then front side will be moved against and held engaged with the rear side of the seat section through the medium of the connecting means.

2,162,504
LIGHTING UNIT FOR RANGES

Donald L. Hadley and Edwin H. Lockwood, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 29, 1936, Serial No. 82,430
3 Claims. (Cl. 240—2)

1. Apparatus comprising a hollow rear instrument-supporting panel having front and top walls, a bracket therein secured to and depending from the top wall, a tube secured to said bracket, a shaft carried in said tube for rotation about the axis of the tube, said shaft having a stop on the side thereof, a slot in said tube cooperating with said stop to limit the rotation of said shaft, said tube having a second slot extending lengthwise to the end thereof and permitting said stop to be received with the first named slot, and a lamp carried by said shaft at one side thereof.



2,162,505
RADIATING APPARATUS

Robert F. James, Mahwah, N. J., and Edward B. Baker, Detroit, Mich., assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 9, 1936, Serial No. 84,292
14 Claims. (Cl. 250—84)

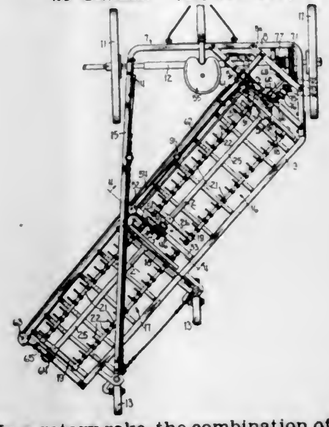


1. An electrical discharge device comprising an enclosing envelope formed of glass of single wall thickness, a pair of electrodes in said envelope, and a discharge supporting gaseous medium therein for generating a continuous spectrum of radiations in the ultra-violet region by means of a positive column discharge, said gaseous medium comprising a mixture of hydrogen and helium.

2,162,506
SIDE DELIVERY RAKE

Frank D. Jones and Herman Moschel, Ottumwa, Iowa, assignors to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa

Application August 7, 1936, Serial No. 94,758
29 Claims. (Cl. 56—377)



1. In a rotary rake, the combination of a frame, a rake reel supported by said frame and comprising a plurality of sections movable relative to each other, and means on the frame for adjusting the position of each section relative to the other and to said frame.

2,162,507

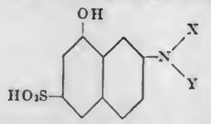
MANUFACTURE OF AZO DYESTUFFS

Arthur Howard Knight, Blackley, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 28, 1936, Serial No. 98,405. In Great Britain August 30, 1935

13 Claims. (Cl. 260—198)

1. An azo dye being the product of coupling in alkaline aqueous medium a diazotized primary aryl amine of the benzene series having a nuclear alkyl group of 8 to 20 carbon atoms in the para position to the amino group, with an amino naphthol sulfonic acid represented by the formula



in which X represents one of a group consisting of lower alkyl and hydroxyalkyl, and Y represents one of a group consisting of hydrogen, hydroxyalkyl, aralkyl, aroyl and arylsulfonyl.

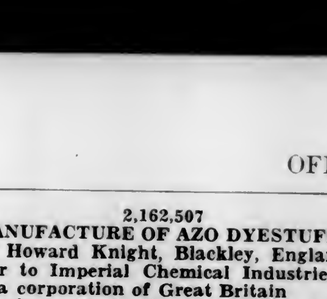
2,162,508

GRID GLOW TUBE

Dewey D. Knowles, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 20, 1937, Serial No. 126,900

12 Claims. (Cl. 250—41.5)



1. In combination, a first electric discharge device having a plurality of principal electrodes, a control electrode and a gaseous atmosphere, means for impressing a potential between said control electrode and a principal electrode of said first device to maintain said device normally nonconductive, a first means responsive to an external disturbance for impressing a potential between said control electrode and one of said principal electrodes such that said first device is rendered conductive, a second electric discharge device having a plurality of principal electrodes, a control electrode and a gaseous atmosphere, means for impressing a potential between said control electrode and a principal electrode of said second device to maintain said second device normally conductive, a second means responsive to an external disturbance having the same properties as said first disturbance for impressing a potential between the control electrode and a principal electrode of said second device such that said second device is rendered conductive, means for impressing a direct-current potential between the principal electrodes of said discharge devices and means for so coupling said discharge devices that when, on both said responsive means responding to said disturbance, the first device is rendered conductive, the second device is also rendered non-conductive.

2,162,509

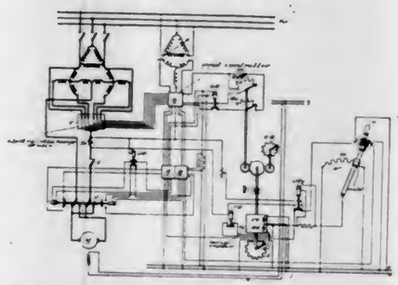
ELECTRIC MOTOR DRIVE

Wilhelm Leukert, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 26, 1937, Serial No. 127,907

In Germany February 29, 1936

6 Claims. (Cl. 172—179)



6. A variable speed electric motor drive comprising an alternating current supply circuit, a direct current motor, a single controlled vapor electric device for transferring electric energy between said motor and said circuit, control electrodes for regulating current flow in said converter, two control devices for supplying control potentials to said control electrodes, one of said devices supplying potentials for producing rectifier operation of said converter and the other producing inverter operation, means for selectively connecting said control devices to said control electrodes, means for adjusting said control devices for regulating the current flow in said converter, a field winding in said motor, means for adjusting the field strength of said winding, actuating means for successively actuating said adjusting means for said control devices and the adjusting means for said field winding and manual means for controlling said actuating means.

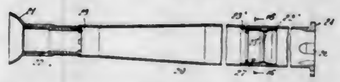
2,162,510

METHOD OF MAKING A TORQUE TUBE

Frederick C. Matthaei and Norman C. Dooley, Detroit, Mich., assignors to American Metal Products Company, Detroit, Mich.

Application January 30, 1937, Serial No. 123,202

5 Claims. (Cl. 29—152)



1. The method of making a torque tube in a single piece which comprises forming a tubular shell of sheet-metal and working the metal at one end of the shell back from the end of the shell to gather metal, and outwardly to form a thickened flange of varying radial dimension, and axially at points spaced apart around the circumference of the tube to form projections upon the wall of the tube adjacent to the flange and extending axially of the tube from the flange and corresponding in position circumferentially of the tube to the portions of the flange of less radial dimension.

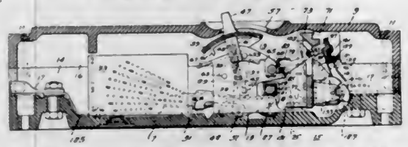
2,162,511

SHOCKPROOF DEVICE

John W. May, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 29, 1936, Serial No. 98,463

21 Claims. (Cl. 200—107)



1. In a multi-pole circuit breaker, a base, contact means for each pole of said breaker, a common actuating means for all of said contact means for simultaneously moving the same to an open circuit position or to a closed circuit position, said actuating means including a releasable means for causing movement of all of said contact means to the open circuit position when said means is released, a trip device including a pivoted trip bar movable to a tripping position to cause release of said means in response to predetermined conditions in the circuits through any of the poles of said breaker, and means effective in the absence of said predetermined conditions to prevent movement of said trip bar and the release of said releasable means, in response to, and only during the existence of, sudden jarring forces, said means comprising a bar secured to said trip bar in spaced relation thereto, an unbalanced weight member pivotally supported on said base, said member having curved edges with different centers of curvature, and provided with a radial slot, spring means for resiliently holding said weight member with the slot thereof in a position to receive said bar when said trip bar is moved to its tripping position in response to said predetermined conditions, said weight member being adapted to be rotated in response to said sudden jarring forces to present one of said edges to said bar to prevent movement of said trip bar only during the existence of said forces, and in the absence of heavy overload conditions.

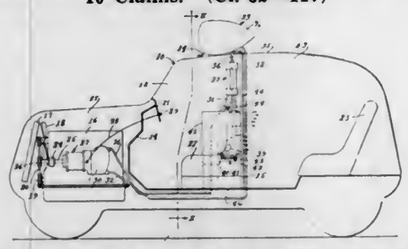
2,162,512

AIR CONDITIONING SYSTEM FOR AUTOMOBILES

Hal W. McPherson and Harry L. Chisholm, Jr., Buffalo, N. Y., assignors to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York

Application November 25, 1935, Serial No. 51,386

10 Claims. (Cl. 62—117)



1. In combination, an automobile of the taxicab or limousine type having a passenger compartment and a driver's compartment, a partition wall separating said compartments having air inlet and outlet openings therethrough, an air conditioning system for cooling the passenger compartment including a refrigerant evaporator unit mounted in the driver's compartment in front of the partition wall, a duct communicating with the inlet opening in said partition wall and with the evaporator unit, a blower for drawing air through said duct around said unit and an outlet duct communicating with the discharge side of the blower and the outlet opening of the partition wall for conveying cooled air propelled by the blower into the passenger compartment.

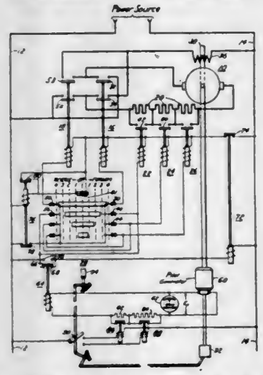
2,162,513

OVERSPEED PROTECTIVE MEANS

Phelan McShane, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 26, 1936, Serial No. 87,368

5 Claims. (Cl. 172—239)



1. In an over-speed protective system for an electric motor comprising means for producing a voltage proportional to the speed of the motor, a speed-reducing relay and a circuit for impressing upon the relay a measure of said voltage, the combination of calibration-altering means comprising impedance-adjusting apparatus included in the relay-energizing circuit and means for operating said apparatus in accordance with a condition of said motor.

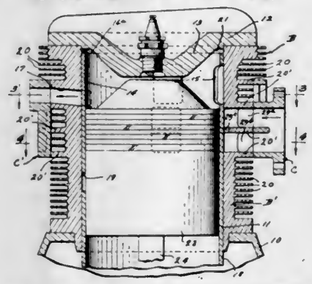
2,162,514

ENGINE

Andre J. Meyer, Grosse Pointe, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia

Application October 14, 1936, Serial No. 105,455

3 Claims. (Cl. 123—193)



1. In an internal combustion engine, a cylinder structure including a cylinder ported at the side for intake and exhaust and a cylinder head

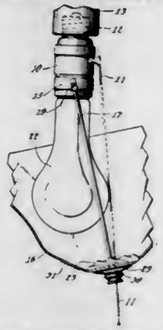
for closing the outer open end of said cylinder and cooperating therewith to provide a combustion chamber adjacent to the cylinder outer end, valve means respectively cooperating with the cylinder intake and exhaust ports to control the engine cyclical events, a ring assembled with said cylinder structure and cooperating therewith to provide a fuel mixture intake chamber cooperating with said cylinder intake ports, and an annular fin about said cylinder and extending longitudinally within said intake chamber.

2,162,515

LIGHTING FIXTURE

Joseph F. O'Brien, Jersey City, N. J., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 29, 1935, Serial No. 52,127
11 Claims. (Cl. 240—78)



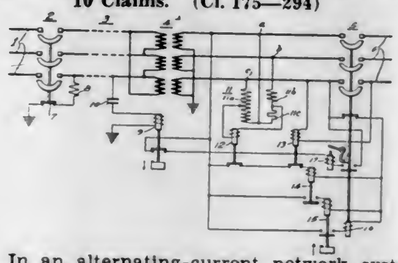
1. A lighting unit comprising a switch element adapted to receive an electric lamp, a plug integral with said switch element for attachment to a socket for supporting said unit, a dish-shaped reflector having an aperture in the bottom wall thereof, a tubular member disposed in said aperture, means for securing said member to said wall, arms extending between said tubular member and said switch element for supporting said reflector, a switch-operating member extending through said tubular member, and pivot means for said arms whereby said reflector may be tilted to one side of said lamp to facilitate the action of said switch-operating member.

2,162,516

AUTOMATIC NETWORK PROTECTOR

John S. Parsons, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 27, 1937, Serial No. 128,203
10 Claims. (Cl. 175—294)



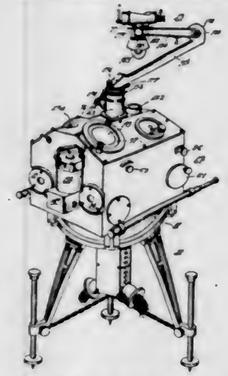
1. In an alternating-current network system of distribution, a three-phase alternating-current network circuit; a three-phase alternating-current feeder circuit; a plurality of transformer means for supplying power from said feeder circuit to said network circuit; a plurality of network circuit breakers for controlling the power flow through said transformer means; individual closing means for said network circuit breakers; and individual phasing means for controlling said closing means, each of said phasing means comprising a negative phase sequence voltage filter for segregating a negative sequence component of voltage of said feeder circuit, means responsive to the negative sequence voltage segregated by said filter for preventing operation of the associated closing means, and means responsive to an excess voltage condition between a secondary conductor of the associated transformer means and a corresponding phase conductor of said network circuit for preventing operation of the associated closing means.

2,162,517

SEARCHLIGHT CONTROLLER

John F. Peters, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 31, 1935, Serial No. 38,769
15 Claims. (Cl. 240—1.2)



1. In combination, a searchlight having a drum mounted for movement in azimuth and elevation, electro-responsive means operable to actuate the drum in azimuth and elevation, position control transmitters for controlling said electro-responsive means, a casing for said transmitters, means on the casing for supporting and moving a pair of binoculars in azimuth and elevation relative to the casing, and mechanical means operable to collectively actuate the position control transmitters in accordance with predetermined operating cycles and the binocular supporting means in accordance therewith independently of the casing, thereby to effect predetermined co-ordinated movements of the searchlight drum and the binoculars while the casing remains stationary.

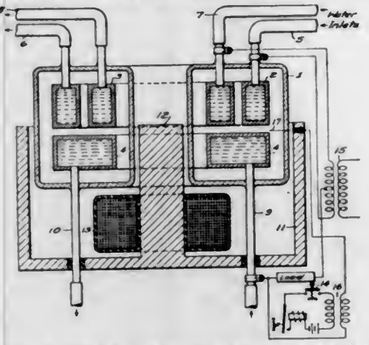
2,162,518

RECTIFIER

Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 21, 1936, Serial No. 81,041
1 Claim. (Cl. 250—27.5)

A rectifier comprising an envelope having a gaseous atmosphere, a hollow annular cathode and two hollow annular anodes spaced therefrom within said envelope, all said electrodes being



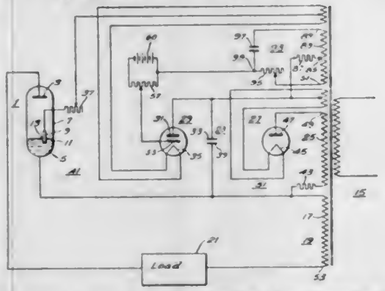
substantially coaxial, cooling means connected to each of said electrodes, and means for producing a substantially radial magnetic flux across the space intermediate said anodes and cathode.

2,162,519

ELECTRIC DISCHARGE APPARATUS

Lloyd Smede, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application May 3, 1933, Serial No. 669,273, now Patent No. 2,008,730, dated July 23, 1935. Divided and this application May 23, 1935, Serial No. 22,996
3 Claims. (Cl. 250—27)



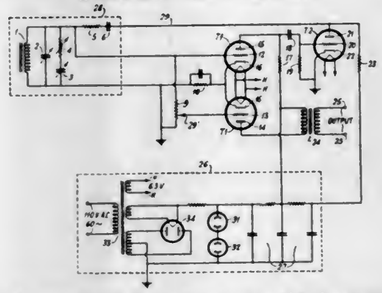
1. In combination, a capacitor, an electric discharge device having a plurality of principal electrodes between which a discharge is to pass, and an electrode for cntrolling said discharge, said discharge device being of the type which passes abruptly from a deenergized condition, in which a discharge is not transmitted between its electrodes, to an energized condition, in which a discharge is transmitted, a first periodic potential source for impressing potentials between said control electrode and one of said principal electrodes, means for coupling said capacitor between the principal electrodes of said discharge device whereby when said capacitor is charged a potential resulting from the charge on said capacitor is impressed between said electrodes, and means including a second periodic potential source of the same frequency as said first source, for charging said capacitor to a potential such that said discharge device passes from a deenergized to an energized condition, the potentials supplied by said first and second sources being in opposite phase relationship.

2,162,520

CONSTANT FREQUENCY OSCILLATION GENERATOR

James N. Whitaker, Tuckahoe, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application January 5, 1938, Serial No. 183,401
2 Claims. (Cl. 250—36)



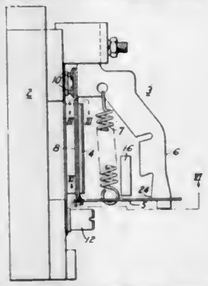
1. A constant frequency, constant amplitude oscillation generation system comprising two sets of linear amplifier elements each having an input and an output circuit, a frequency controlling circuit connected to the input circuits of both sets of linear amplifier elements, a feed-back circuit from the output circuit of one set of amplifier elements to said frequency controlling circuit, said feed-back circuit including an electron discharge device whose grid is biased to give saturated output current upon the application of a slight positive potential to said device from said last set of amplifier elements, said device having input potentials applied to its grid from said last output circuit and having its anode coupled to said frequency determining circuit through a stabilizing resistance, whereby the phase of the energy in the anode circuit is reversed relative to the energy in the grid circuit, a utilization circuit coupled to the output circuit of said other set of amplifier elements, and a potentiometer in the input circuit of said last set of amplifier elements for regulating the level of the energy supplied to said utilization circuit.

2,162,521

CONTROL DEVICE

George C. Armstrong, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 30, 1937, Serial No. 139,976
5 Claims. (Cl. 200—116)



5. A thermal relay comprising movable contact means, a trip device therefor, a heat-responsive device comprising a plurality of bimetallic elements disposed in relatively slidable face-to-face engagement and having a pivotal engagement

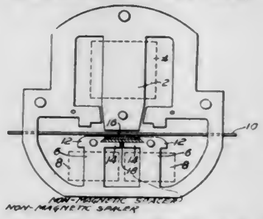
with said trip device, and means loosely engaging said trip device and resilient means cooperating with said loosely engaging means to retain the trip device out of engagement with said movable contact means, the flexing of said bimetallic elements under the influence of heat effecting disengagement of said trip device from said loosely engaging means whereby said resilient means biases said trip device into moving engagement with said movable contact means..

2,162,522

WATT-HOUR METER LOAD COMPENSATION

Thomas D. Barnes, Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 22, 1937, Serial No. 144,154
2 Claims. (Cl. 171—264)



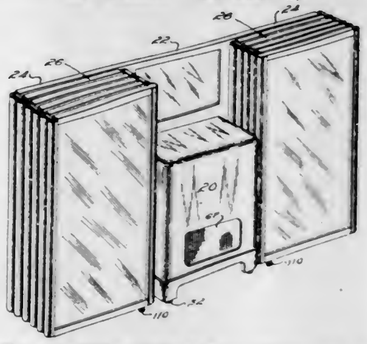
2. In a magnet structure; a pair of magnet poles each having a main pole face and an adjacent auxiliary pole face for normally aiding the main pole face to establish a main magnetic field, and a uniform magnetic shunt having a substantial portion overlying said auxiliary pole faces for diverting a part of the magnetic flux from said auxiliary pole faces through said magnetic shunt to produce in said shunt a flux density that gradually increases from a point adjacent one of said main pole faces to a point distant from said main pole face under a light magnetic flux loading of said magnet poles, said magnetic shunt saturating gradually from said distant point to said adjacent point as the magnetic flux loading increases to gradually increase the reluctance of the path between said auxiliary pole faces and said main magnetic field.

2,162,523

AIR CONDITIONING APPARATUS

Howard E. Blood and Rossiter R. Potter, Detroit, Mich., assignors, by mesne assignments, to Borg-Warner Corporation, a corporation of Illinois

Application October 10, 1934, Serial No. 748,372
15 Claims. (Cl. 312—1)



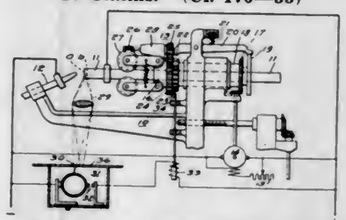
13. In a mobile unit for conditioning air, a housing for air conditioning unit having a side wall of substantially three times the width of said housing and having hinged to the opposite vertical edges thereof a plurality of foldable partitions having hinged means at the edges thereof whereby said foldable and collapsible partitions may be folded in parallel relation to one another and to said first wall in the region between the ends of said first walls and the ends of said housing.

2,162,524

THERMOSTATIC CONTROL

Porter H. Brace, Forest Hills, Clinton R. Hanna, Pittsburgh, and Kirk A. Oplinger, Verona, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 13, 1937, Serial No. 130,740
17 Claims. (Cl. 176—55)



1. In an electrode feeding mechanism for electric arcs, in combination, means for feeding the electrode, and means including only one strip of bimetallic material so shaped as to be appreciably responsive to temperature change only when the change is effected in limited parts of the strip, responsive to the position of the arc, for controlling the electrode feeding means.

2,162,525

FLOTATION OF FINE OXIDE ORE MINERALS

Charles H. Breerwood, Narberth, Pa., assignor to Separation Process Company, a corporation of Delaware

No Drawing. Application September 10, 1937, Serial No. 163,303
7 Claims. (Cl. 209—167)

1. In a method for concentrating calcite and removing micaceous matter from an argillaceous pulp containing an abundance of fine slimes, the steps which comprise conditioning the plup with a lignin sulphonate to disperse the constituent minerals and in quantity insufficient to serve as a collector, subjecting the dispersed pulp to froth flotation in the presence of a separate oxide ore mineral collector other than a lignin sulphonate in a stage oiling circuit, and separating the micaceous matter from the tailings of the flotation operation by hydraulic classification.

2,162,526

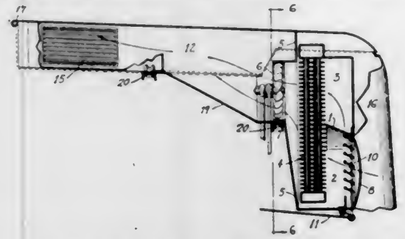
REGULATABLE RADIATOR VENTILATION FOR MOTOR VEHICLES

Jules A. Buyck, Detroit, Mich., now by judicial change of name John Arlon Buick

Application March 3, 1937, Serial No. 128,707
4 Claims. (Cl. 257—132)

1. In combination with a motor vehicle radiator and an engine hood housing having an unbroken front wall portion spacedly positioned forwardly of said radiator, a pair of air inlet openings selectively positioned in other portions of the vehicle's sheet metal finishing structure

than said engine hood wall, one of which said openings continuingly and unobstructively serves the upper portion of the radiator and the other of which is adapted to guide a cooling air current against the lower portion of the radiator,



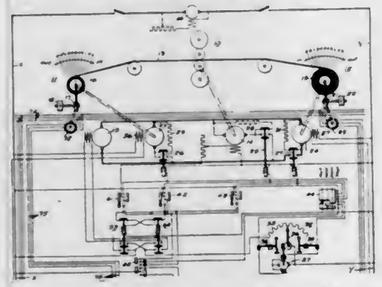
selectively operable means for temporarily halting the air flow through the second named of said air inlet openings, and outlet passages leading from the vicinity of the radiator to selected points in the hood shell structure relatively remote from the location of the air inlet openings.

2,162,527

TENSION CONTROL SYSTEM

Willard G. Cook, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 23, 1935, Serial No. 12,543
16 Claims. (Cl. 80—32)



1. In combination, a reeling device for moving material comprising a reel rotatably mounted on a movable support having a predetermined normal operating position and means for biasing the support to subject the material to a substantially constant tension, a dynamo-electric machine connected to the reel for retarding it when unwinding and driving it when winding, and continuously-operating regulator means variably responsive to the degree of movement of the reeling device from its normal operating position for controlling the excitation of the dynamo-electric machine, whereby the reel is maintained in a predetermined operating position regardless of changes in the speed of the moving material.

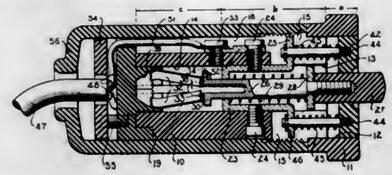
2,162,528

SWITCH MECHANISM

William R. Curtiss, Meriden, Conn., assignor to Connecticut Telephone and Electric Corporation, Meriden, Conn., a corporation of Delaware

Application July 31, 1937, Serial No. 156,675
12 Claims. (Cl. 200—16)

1. In apparatus of the class described, a tubular insulating housing, a hook-like conductor engaging the inner and outer walls of said housing at one end thereof, reciprocable means in said housing including a resilient contact member adapted to engage the portion of said conductor which extends into the bore of said housing, resilient means coacting with said reciprocable means for normally holding said contact member in a limiting position out of engagement with said conductor, means for releasably holding said



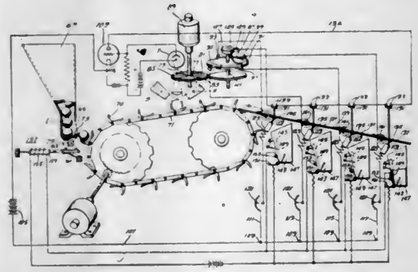
reciprocable means against movement by said resilient means after movement of said reciprocable means to intermediate position with said contact member in engagement with said conductor, and means mounted at the end of said housing and having a portion projecting into the bore thereof for lifting said contact member out of engagement with said conductor when said reciprocable means is moved beyond said intermediate position.

2,162,529

PHOTOSENSITIVE APPARATUS

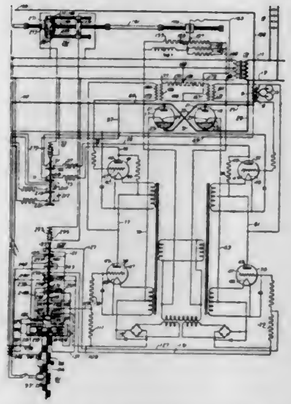
John W. Dawson, East McKeesport, and Edwin H. Vedder, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 12, 1936, Serial No. 68,474
5 Claims. (Cl. 209—111)



4. Apparatus for classifying an article in accordance with its color comprising means for resolving given radiations into its color component, said resolving means operating to provide impulses of radiant energy corresponding to said color components in cyclic sequence, means for subjecting said article to said resolving means in such manner that the radiations emitted by said article are resolved into a plurality of cycles of radiant energy impulses corresponding to the color components thereof, a plurality of current paths, each current path corresponding to a particular color component resolved by said resolving means, means responsive to the color components of said article for producing current impulses in the corresponding current paths, means for maintaining said current impulses in synchronism with the corresponding radiant energy impulses, and classifying means to be actuated by a plurality of the recurrent current impulses corresponding to the color component predominant in said article.

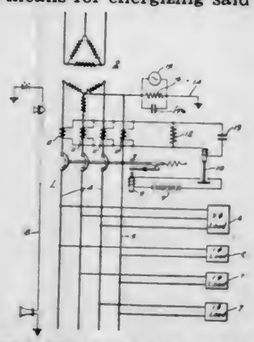
2,162,530
WELDING APPARATUS
John W. Dawson, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 6, 1937, Serial No. 173,183
18 Claims. (Cl. 171—97)



13. Apparatus for supplying power from a periodically pulsating source to a first load comprising a second load, a first power supply channel between said source and said first load, said channel including electric discharge means having control means, means cooperative with said control means for so controlling said channel that power is supplied to said first load in intermittent pulses, each pulse consisting of one or more pulsations of said source, a second power supply channel between said source and said second load, said second channel including electric discharge means having control means, means cooperative with the last said control means for so controlling said second channel that power of the same magnitude as said pulses is supplied to said second load in the intervals between the supply of said pulses, said controlling means including means for supplying initiating impulses to each of the control means of said discharge means at instants in the periods of said source which may be predetermined at will to properly time the supply of said pulses to said loads, and means for regulating said supplying means so that when the supply of pulses to said loads is being initiated the supply of initiating impulses to said control means commences at an instant late in said periods and its phase point in the successive periods is progressively advanced until the point in the period corresponding to the magnitude of the pulses desired is attained.

2,162,531
GROUND-FAULT PROTECTION
Robert D. Evans, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 24, 1937, Serial No. 138,798
9 Claims. (Cl. 175—294)

1. In an alternating-current system of transmission and distribution operated at a predetermined power frequency, an alternating-current power circuit comprising a plurality of conductors; a conductive connection of said circuit to ground at a single point; means for impressing a voltage to ground, of frequency higher than said power frequency, upon all of said conductors as a group; an electroresponsive fault-detecting device; and means for energizing said device in accordance with the algebraic sum of currents flowing in all of said conductors, said device being operative to detect a change in energy at said higher frequency in the system when a ground occurs on any one of said conductors.



2,162,532
PRODUCTION OF ETHYL CHLORIDE
Walter Flemming, Ludwigshafen-on-the-Rhine, Karl Dachlauer, Hofheim-in-Taunus, and Erwin Schnitzler, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application September 15, 1937, Serial No. 163,914. In Germany January 28, 1936

4 Claims. (Cl. 260—662)

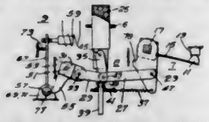
1. In the production of ethyl chloride by chlorination of ethane in the gas phase the steps which comprise performing the chlorination at temperatures between 400° and 700° C. within small catalyst zones and using as material for the reaction chamber and the catalysts metals which are inert to chlorine under reaction conditions, and on the surfaces of which a thin coating of crystalline black carbon is deposited.

2,162,533
TRANSLATING DEVICE
Jürgen von Issendorf, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 16, 1931, Serial No. 581,389
In Germany December 17, 1930
8 Claims. (Cl. 175—363)



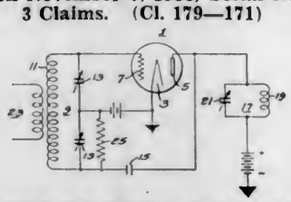
1. A translating system comprising an electric discharge device incorporating a control electrode and a plurality of principal electrodes, said device being in deenergized condition when predetermined potentials are impressed between its electrodes and in energized condition when certain other potentials are impressed between its electrodes, and said device being also capable only of abrupt transition from one condition to the other as said potentials are varied through a limiting relationship, a source of electrical potential having a negative terminal and a plurality of positive terminals, means for connecting said negative terminal to said control electrode and one of said positive terminals to one of said principal electrodes to maintain said device in a deenergized condition, an electric discharge device of the glow discharge type having a plurality of electrodes, means for connecting one of said electrodes to said control electrode, means for connecting another of said electrodes to the other positive terminal of said source of potential and means for energizing said glow discharge device thereby to connect said last-named positive terminal to said control electrode and to energize said electric discharge device.

2,162,534
CIRCUIT BREAKER
Paul Klein, Berlin, and Kurt Wulsten, Berlin-Charlottenburg, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 1, 1933, Serial No. 663,922
In Germany April 1, 1932
20 Claims. (Cl. 200—89)



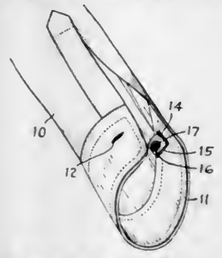
1. In a circuit interrupter, a stationary contact member, a movable switch means including a contact member for cooperating therewith to open and close the electrical circuit through said interrupter, spring means for supplying contact pressure between said cooperating members when said interrupter is in the closed position, and an operating mechanism for actuating said switch means, said operating mechanism including a toggle linkage, means biasing the knee of said linkage to the open circuit position, and means responsive to the contact pressure between said cooperating members for holding the knee of said toggle in the closed circuit position against said biasing means, said holding means being releasable and causing the movable contact member to move to open circuit position upon a predetermined decrease in contact pressure between said cooperating members.

2,162,535
NEUTRALIZING CIRCUIT
Donald G. Little, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 7, 1936, Serial No. 109,718
3 Claims. (Cl. 179—171)



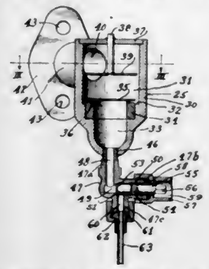
1. A neutralizing circuit comprising an electron discharge device having cathode, anode and control electrodes, a tuned circuit comprising a parallel arrangement of inductance and capacity, a connection from said cathode to the electrical midpoint of said tuned circuit, means connecting said control electrode to one terminal of said tuned circuit, a condenser having a capacity substantially equal to the internal capacity between said control electrode and said anode, said condenser being connected in circuit between said anode and the other terminal of said tuned circuit and an impedance conductive to direct current and substantially equal in value to the internal impedance between said grid and cathode connected between said electrical midpoint and said last mentioned terminal.

2,162,536
SHIRT CUFF
Harry F. O'Mealia, Jersey City, N. J.
Application February 23, 1939, Serial No. 257,873
2 Claims. (Cl. 2—123)



1. A non-folding shirt cuff convertible from French to barrel form having a buttonhole formed in one of its edges, a button secured to the other edge on the outer side of the cuff, a short strip of fabric secured to the inner side of the cuff opposite said button, the securing means for said button and said strip being common, and a button secured to the free end of said strip, the arrangement being such that when the outside button engages the buttonhole a barrel-cuff is formed, and when the button on the free end of said strip engages the buttonhole a French-cuff is formed.

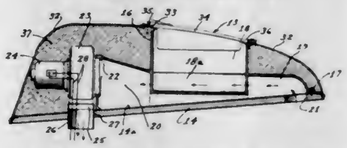
2,162,537
REFRIGERATING SYSTEM
Ralph F. Peo, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York
Application November 13, 1935, Serial No. 49,503
6 Claims. (Cl. 62—115)



5. In a mechanical refrigerating system including an evaporator unit and a compressor pump, the improvement which comprises a charging device interposed between the evaporator and the inlet side of said pump, said charging device comprising a housing defining an upper chamber and a well below said chamber, a check valve between said chamber and said well adapted to open upwardly only for connecting the well with the chamber, said housing having an outlet opening joining said upper chamber with the inlet to the

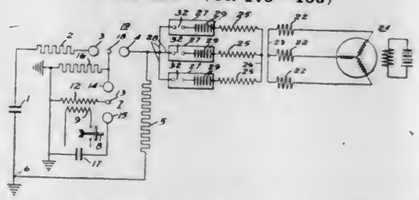
pump, and an inlet opening joining said well with the evaporator, said housing also having a third opening communicating with the well and a valve coupling secured in said third opening adapted to be joined with a source of refrigerant.

2,162,538
DRY ICE AIR CONDITIONING UNIT FOR VEHICLES
Ralph F. Peo, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York
Application October 19, 1936, Serial No. 106,328
9 Claims. (Cl. 62—13)



8. A standardized automobile air conditioner adapted to be mounted on the roof of a closed type automobile comprising an insulated housing for mounting on the roof of the vehicle having air ports adapted to register with openings provided through the roof whereby air from the interior of the vehicle may circulate through the housing, air cooling means in said housing and a shroud skirt surrounding the bottom portion of the housing and pre-formed to engage the roof and to conform with the particular roof line contour.

2,162,539
METHOD AND MEANS FOR TESTING ELECTRIC MACHINES
Joseph Rebhan and Richard Elsner, Nuremberg, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 9, 1937, Serial No. 147,281
In Germany July 1, 1936
6 Claims. (Cl. 175—183)



1. The method of testing the impulse-voltage strength of a multiphase electrical winding which consists in applying thereto an alternating dynamic voltage of normal value and frequency, and in applying a voltage surge to one phase of the winding while the remaining phases are connected to ground through cathode drop discharge devices and resistors chosen to provide resistances substantially equal to the wave impedance of the power circuit to which the windings are designated to be connected.

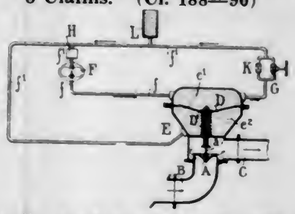
2,162,540
FUSE
Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application March 24, 1937, Serial No. 132,664
13 Claims. (Cl. 200—135)

2. A fuse link for mounting on the plug of a plug type cutout comprising, in combination, a pair of terminals disposed to be secured to the base of said plug, a relatively infusible conductor disposed to be positioned over the upper end of said plug and to extend downwardly along the



sides thereof, and a pair of fusible elements interconnecting said terminals and the adjacent ends of said conductor a substantial distance below the upper end of said plug whereby two gaps are formed in series on b'owing of said fuse wires.

2,162,541
HYDRAULIC APPARATUS
George Henry Walker, Worcester, England, assignor to Heenan & Froude Limited, Worcester, England
Application January 22, 1937, Serial No. 121,799
In Great Britain February 6, 1936
8 Claims. (Cl. 188—90)

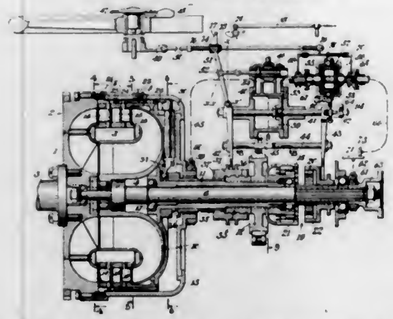


1. Hydraulic apparatus of the type referred to comprising primary and secondary vaned members forming working compartments having in combination with the liquid outlet of the apparatus, a valve arranged in the said outlet, a fluid operated diaphragm controlling said valve, and means driven by the primary vaned member for automatically varying the pressure of the fluid on one surface of the diaphragm relative to the other in accordance with variation in speed of the primary vaned member to vary the opening of the valve to maintain a constant volume of liquid in the working compartments.

2,162,542
TREATMENT OF FATTY ACIDS
Frank G. Amthor, East Rutherford, and George Zinzalian, Boonton, N. J., assignors to Wecoline Products, Inc., Boonton, N. J., a corporation of New Jersey
No Drawing. Application October 3, 1935, Serial No. 43,300
7 Claims. (Cl. 23—250)

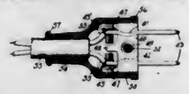
1. A method of treating higher fatty acids which comprises adding thereto a small amount of oxalic acid, whereby discoloration of said fatty acids is substantially prevented, the ratio of oxalic to fatty acids being 1 to 1,000–20,000.

2,162,543
POWER TRANSMISSION
Otto A. Banner, Highland Park, N. J.
Application April 28, 1933, Serial No. 668,351
33 Claims. (Cl. 60—54)



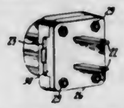
1. In a hydraulic power transmission device a primary impeller, a secondary impeller, guide vanes interposed between the discharge of said primary impeller and the intake of said secondary impeller, said guide vanes having adjustable entrance and discharge elements, means for maintaining said guide vanes stationary and means for releasing them for rotation.

2,162,544
PLUG CAP
George B. Benander, Yalesville, Conn., assignor to The Monowatt Electric Corporation, a corporation of Connecticut
Application January 22, 1935, Serial No. 2,915
5 Claims. (Cl. 173—361)



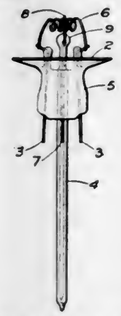
3. A plug cap comprising a mounting block having at one end a groove on one side and at the other end a groove on the other side, contacts having portions which fit into said grooves and engage the block at the opposite ends of the grooves, and a removable casing which fits over said block.

2,162,545
ELECTRIC FIXTURE
George B. Benander, Yalesville, and Gerhard P. Schwabacher, Bridgeport, Conn., assignors to General Electric Company, a corporation of New York
Application January 14, 1936, Serial No. 59,074
3 Claims. (Cl. 173—340)



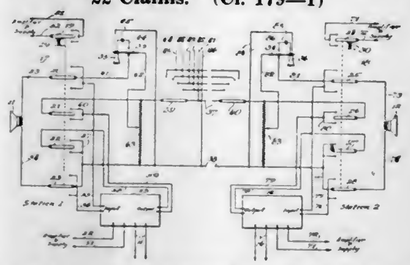
1. A receptacle for use with a cable comprising a flat strip having a pair of longitudinal insulated conductors arranged side by side and held in spaced relation, comprising a base having blade receiving openings in its top and contacts arranged in line with said openings, blades connected to said contacts having bent portions spaced from the base and providing a space for receiving the cable whereby the cable is held between said portions and the base, said blades projecting from the bottom of the base and being adapted to be plugged into an outlet, a plate having openings through which the blades project, and means including said plate for effecting electrical connection between the conductors of the cable and said contacts.

2,162,546
GASEOUS ELECTRIC DISCHARGE DEVICE
Robert Leonard Breadner, Kenton, and Arthur George Pearce, North Wembley, England, assignors to General Electric Company, a corporation of New York
Application February 20, 1936, Serial No. 64,970
In Great Britain July 9, 1934
4 Claims. (Cl. 176—126)



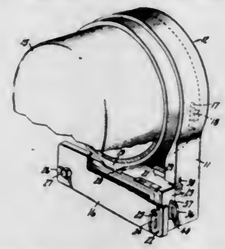
1. A stem for an electric discharge device, said stem comprising a flare, a pinch contiguous with said flare, current leads sealed into said pinch, and an exhaust tube fused to said flare, said pinch being V-shape in a section transverse to the axis of said stem, said exhaust tube being fused to said flare of said flare opposite the concave side of the pinch.

2,162,547
COMMUNICATION SYSTEM
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin
Application November 11, 1937, Serial No. 173,988
22 Claims. (Cl. 179—1)



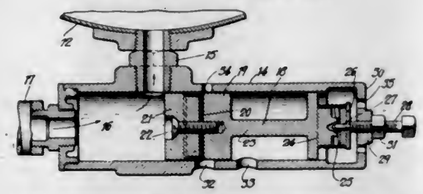
1. In an intercommunicating system, the combination including, a loud speaker unit adapted to be used both as a receiver and a transmitter, an earphone, a communication circuit, and switch means for controlling the establishment of circuits from the communication circuit to said unit and earphone, said switch means being so constructed and arranged that the unit can be selectively connected to said circuit for reception or transmission, or the unit and earphone can be connected to said circuit for transmission and reception, respectively.

2,162,548
METER SEALING DEVICE
Wendell H. Campbell, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application April 15, 1938, Serial No. 202,278
4 Claims. (Cl. 171—34)



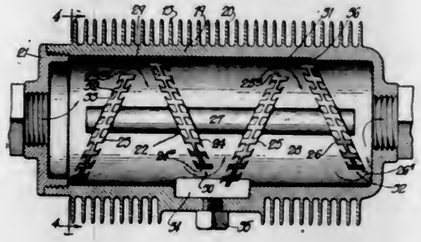
4. A sealing system for apparatus to be sealed comprising in combination with apparatus to be sealed having an under-cut groove therein, a sealing bar, a sealing clip removably secured to said apparatus, said sealing bar being slidable between locking and unlocked positions, having a flange slidably fitting the under-cut portion of said groove and having a lateral arm with a slot therein through which said clip is adapted to protrude when said bar is in the locking position, said clip having wings at the inner portion thereof preventing removal of said clip through said slot, the flange of said sealing bar extending along a portion of said bar, and being spaced from the lateral arm of said bar, the space between the flange and the lateral arm being greater than the length of the under-cut portion of said groove, whereby the flange lies within said undercut portion of the groove and is held thereby when the bar is in the unlocked position, and said flange clears said under-cut portion of the groove, but said slotted lateral arm hooks over said clip to prevent removal of the bar when in its locking position.

2,162,549
AUTOMATIC DRAIN VALVE FOR COMPRESSED AIR RESERVOIRS
Frank P. Frankford, Ridgefield Park, N. J.
Application October 12, 1937, Serial No. 168,545
5 Claims. (Cl. 303—88)



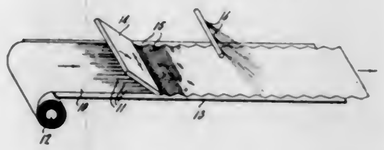
1. A compressed air system comprising an air compressor, an air reservoir and a drain member, said drain member being connected to receive air from said air compressor and having a vent and communicating with the lower part of said air reservoir at a point between said vent and said connection to said air compressor and a valve movable from a position between said vent and said communication with said reservoir to a position between said connection with said reservoir and said connection with said air compressor, means to move said valve yieldingly to said latter position with a limited pressure and to permit it to return to its original position under pressure from said compressor.

2,162,550
AIR CLEANER
Frank P. Frankford, Ridgefield Park, N. J.
Application October 27, 1937, Serial No. 171,213
7 Claims. (Cl. 183—113)



1. An air cleaner which comprises a chamber having an open end and a closure for said end, and a cleaner unit insertable through said open end and comprising a series of baffles contacting with the wall of said chamber when inserted and providing passages for gases alternately at opposite sides of said chamber to cause air to flow back and forth from side to side between said baffles in passing through said chamber, said baffles being inclined alternately in opposite directions and having transversely extending teeth inclined against the current of air between the respective baffles.

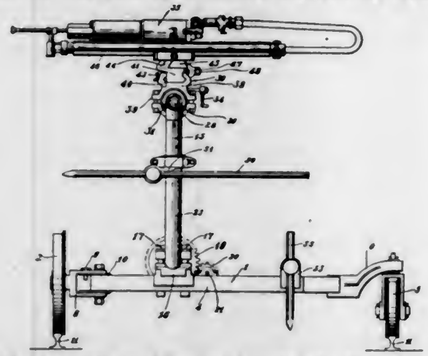
2,162,551
METHOD OF MAKING ELASTIC FABRIC
Thomas G. Hawley, Jr., Naugatuck, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 30, 1935, Serial No. 47,361
6 Claims. (Cl. 154—2)



1. The method of making an elastic fabric, comprising the steps of wetting a textile fabric composed of interconnected threads to render it more flexible, placing the fabric on a supporting surface, exerting a sliding pressure upon the fabric in a direction to condense it by decreasing the distance between adjacent rows of threads, holding the fabric in the condensed condition on the supporting surface by virtue of it being wet, and treating the fabric with a rubber-containing fluid to yieldingly retain it in this condition.

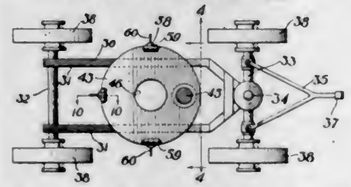
2,162,552
PORTABLE DRILLING RIG
Charles A. Hirschberg, Mountain Lakes, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a corporation of Virginia
Application February 4, 1937, Serial No. 124,093
14 Claims. (Cl. 255—51)

1. In a portable drilling rig, a carrying frame, a drill-supporting frame including side arms and a cross bar pivotally carried thereby, the cross bar of said supporting frame being rotatably carried by the side arms of the supporting frame,



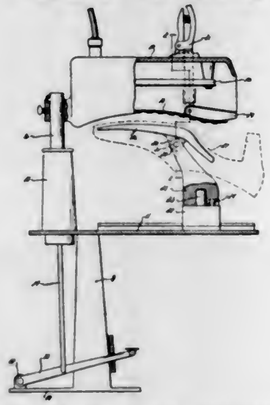
and means for holding said cross bar against rotary movement.

2,162,553
PORTABLE DRILLING RIG
Charles A. Hirschberg, Mountain Lakes, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application November 13, 1937, Serial No. 174,449
8 Claims. (Cl. 255—51)



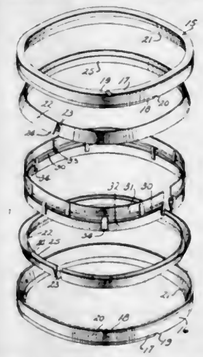
1. In a portable drilling rig, a supporting frame, a turn-table disc rotatably carried by said supporting frame and provided with a central opening therethrough, and drill-carrying means carried by said disc and arranged whereby a drill thereon may be positioned to operate through the opening in the turn-table disc.

2,162,554
COMBINATION SHOE LAST AND PRESSER
Charles Johnson, Detroit, Mich.
Application November 12, 1936, Serial No. 110,495
2 Claims. (Cl. 12—123)



1. In combination: a last supporting block; a pair of studs projecting upwardly from the upper face of said block one of said studs being longer than the other; a last supporting arm having pockets formed in one end for reception of said studs, said end of said arm being adapted for resting on said block, the opposite end of said arm being bifurcated; a shoe last; a lug projecting outwardly from the under face of said last and engaging between the bifurcations of said arm; and means for pivotally mounting said lug between said bifurcations.

2,162,555
COMPOUND HELICAL PACKING
Matthew G. Kurth, Madison, Wis.
Application October 7, 1935, Serial No. 43,934
8 Claims. (Cl. 309—27)

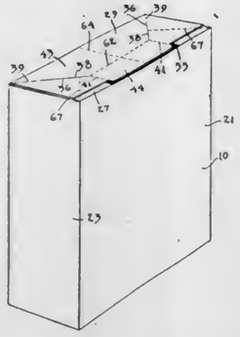


1. A compound packing comprising a pair of expansible packing elements having opposed beveled peripheral surfaces, of annular hollow sheet metal wedges co-acting with the beveled surfaces of said members and movable axially with respect thereto for the expansion of said elements, and spring means housed within and confined under stress between said wedges and re-acting oppositely thereon, whereby to tend to separate said wedges for the expansion of said elements, said spring means comprising a normally planiform ring, and spacers angularly offset about said ring and alternately interposed between said ring and said wedge means, whereby said ring is undulatory in form when subject to stress, said hollow wedges thermally insulating said ring to maintain the tension thereof.

2,162,556
CARTON
Alexander S. T. Lagaard, Minneapolis, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application December 29, 1937, Serial No. 182,277
5 Claims. (Cl. 229—17)

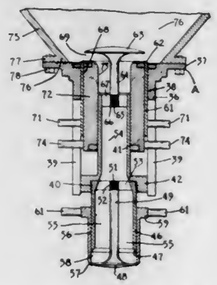
1. A carton constructed from sheet material and comprising lateral walls including a front wall, a rear wall and side walls, a bottom connected with said lateral walls, end wall sections issuing outwardly from the ends of the lateral walls and being adapted to be folded over and secured together to form an end wall for the upper end of the carton, the uppermost section having a removable flap hinged at one end to one of the lateral walls and terminating at its end opposite the hinge in a tab, the underlying sections forming an access opening to the carton adapted to be covered by said flap, said opening falling short of the wall opposite to that to which said flap is hinged to leave marginal portions in the underlying flaps, said marginal portions

forming a pocket therebetween for the reception of said tab, and a ledge issuing from and integral with the wall section forming the innermost wall of the pocket and extending into the access open-



ing, said ledge being coextensive with the length of said access opening and being adapted to engage said tab and to direct the same into said pocket.

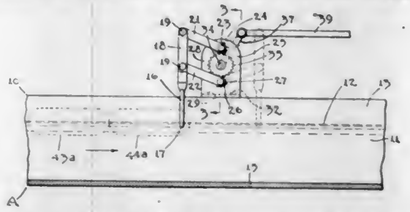
2,162,557
DOUGH CUTTER
Alexander S. T. Lagaard, Minneapolis, Minn., assignor to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota
Application March 4, 1938, Serial No. 193,897
10 Claims. (Cl. 107—14)



1. A dough cutter comprising a vertical cylinder a tube within said cylinder of lesser diameter than said cylinder and having a collar fitting within said cylinder at its lower end and centering said tube within said cylinder, an annular piston disposed between said cylinder and tube, valve means at the upper end of said cylinder for controlling the intake of dough into said tube and means at the lower end of said tube for controlling the extrusion of dough therefrom.

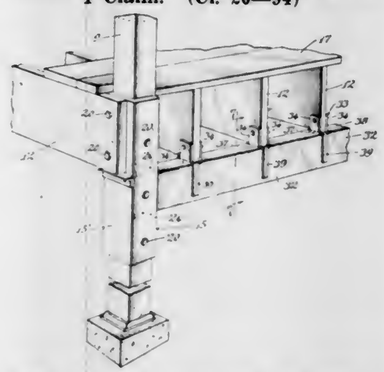
2,162,558
CONTROL DEVICE FOR DOUGHNUT MACHINES
Alexander S. T. Lagaard, Minneapolis, Minn., assignor to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota
Application June 27, 1938, Serial No. 216,025
9 Claims. (Cl. 53—7)

1. In a doughnut machine in which the doughnuts are progressed along a way through the flow of cooking liquid, an engaging member adapted to be moved from one position in the way to another position in the way spaced from the first position in the direction of flow of the cooking



liquid to release the doughnuts one at a time for travel along said way.

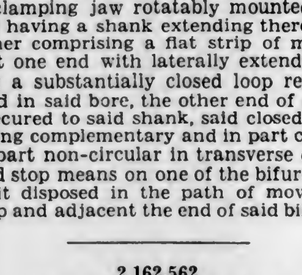
2,162,559
JOIST STRUCTURE
Charles Louis Lambert, Chicago, Ill.
Application May 7, 1938, Serial No. 206,611
1 Claim. (Cl. 20—94)



A porch structure comprising in combination, a U shaped tie-member having at least two ledges and adapted to receive and hold securely two joist members in collinear and spaced relationship, also adapted to receive a channel supporting beam intermediately between the ends of the said collinearly spaced joists, a ledge secured to said U shaped tie-member for supporting, endwise, a flooring beam, a number of beam supporting members, each such member comprising a U shaped beam holding portion adapted to hold securely a flooring beam, said U shaped beam supporting member adapted to fit slidably on the said channel supporting beam by virtue of a curved lip portion engaging one side of the said channel supporting beam, said U shaped beam supporting member provided with a steadying lug portion disposed oppositely to said curved lip portion, and bearing snugly against the bottom portion of the said channel supporting beam, and a number of flooring beams secured to said U shaped beam supporting members.

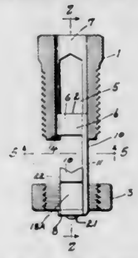
2,162,560
COMBINED CHAIR AND TABLE
Lewis Larsen, Menominee, Mich., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application August 1, 1936, Serial No. 93,825
1 Claim. (Cl. 155—128)

A combined chair and table embodying therein laterally spaced, relatively long and short side frames, the long side frame including a horizontal bottom member and end and intermediate upright members connected thereto, the short side frame including a horizontal bottom member and end upright members connected thereto, a seat, means for supporting one end of the seat from one upright end member of both side frames, the other upright end member and the upright inter-



mediate member of the longer frame carrying oppositely directed horizontal extensions, a table top supported by said extensions, and means connecting the other upright end member of the short frame with the intermediate upright member of the long frame and which connecting means supports the other end of the seat.

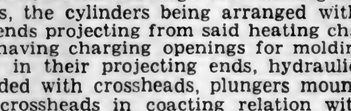
2,162,561
CONNECTOR
Clarence J. Lemont, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application August 20, 1937, Serial No. 160,033
3 Claims. (Cl. 24—243)



1. In a connector comprising a bifurcated bolt having an axially disposed bore, a clamping nut, and a clamping jaw rotatably mounted on said nut and having a shank extending therethrough; a retainer comprising a flat strip of metal provided at one end with laterally extending wings forming a substantially closed loop reciprocally mounted in said bore, the other end of said strip being secured to said shank, said closed loop and bore being complementary and in part cylindrical and in part non-circular in transverse cross-section and stop means on one of the bifurcations of said bolt disposed in the path of movement of said loop and adjacent the end of said bifurcation.

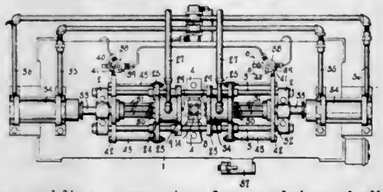
2,162,562
AIR REGISTER GRILLE
Verlin E. Moore, Kansas City, Mo.
Application March 6, 1936, Serial No. 67,478
2 Claims. (Cl. 98—106)

2. An air register grille comprising a polygonal unitary face plate provided with a series of parallel slits therein; a damper movable to and from a position closing said slits, and a spring hinge supporting the damper, the material of said plate between said slits being disposed at an angle to the normal plane of the face plate to provide baffles to deflect the air currents passing through said slits in directions other than perpendicularly to the normal plane of said face plate, said plate having a panel intermediate the ends thereof, the baffles between said panel and the respective ends being disposed at progressively greater angles to the perpendicular to said face plate as the ends are approached, the baffles all being arranged to direct currents of air outwardly from the said panel toward the ends of said plate, the said baf-



fles being disposed in spaced relation to afford an unrestricted slit between proximal side edges thereof to permit a certain amount of air currents to pass through said plate along paths perpendicular to the plane thereof, said damper being swingable to and from a position against the inner edges of said baffles, the damper having operating means in connection therewith and extending through the said panel, said spring hinge being arranged to constantly urge the damper to the open position against the anchoring force of said operating means.

2,162,563
MOLDING MACHINE
John M. Oldham, Detroit, Mich., assignor to Leonard A. Young, Detroit, Mich.
Application February 1, 1936, Serial No. 61,967
1 Claim. (Cl. 18—30)

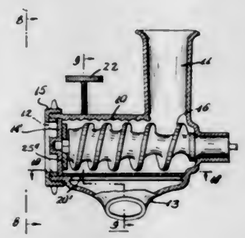


In a molding apparatus for applying shells to golf balls, a mold removably engageable with said mold support and comprising sections provided with sprue passages terminating at their outer ends in seats in the outwardly facing sides of the mold sections, carriages reciprocatingly mounted on opposite sides of said mold support for movement toward and from said mold, cylinders on said carriages having discharge nozzles seating in said seats of said sprue passages when the carriages are advanced to molding position, heating chambers on said carriages surrounding said cylinders, the cylinders being arranged with their rear ends projecting from said heating chambers and having charging openings for molding material in their projecting ends, hydraulic rams provided with crossheads, plungers mounted on said crossheads in coacting relation with said cylinders, said plungers acting first to advance the carriages to molding position and then to engage and discharge the molding material from the cylinders, and control means for said rams actuated by said crossheads.

2,162,564
CONVERTIBLE MEAT GRINDER AND JUICE EXTRACTOR
Rose Poliner, New York, N. Y.
Application July 27, 1937, Serial No. 155,863
1 Claim. (Cl. 100—48)

In a convertible meat grinder and juice extractor, a tubular body having an open end, a hopper

at the top portion of the other end, and a funnel at the bottom, a solid disc removably mounted across open end, said solid disc being removable to permit a perforated disc to be mounted across said open end when said grinder is used as a meat grinder, means for selectively holding said discs in position, a spiral cutter rotatively mounted through and of a diameter substantially equal to the internal diameter of said tubular body and having a projecting end by which it may be turned to direct materials placed in said body through said body from said hopper end to said open end, said body being formed along its bottom portion with a groove having an open base wall communicating with said funnel, a perforated strip removably mounted in said groove, said perforated strip being removable to permit a solid strip to be mounted within said groove when said grinder is used as a meat grinder, and said tubular body also having a closable discharge opening near the open end thereof through which the materials are adapted to pass after the juices



have been extracted therefrom and passed through said funnel, whereby said grinder may be used as a juice extractor, when said perforated strip is mounted in said groove, said solid disc is mounted across said open end and said discharge opening is open and successively used as a meat grinder when said perforated strip is replaced by said solid strip, said solid disc is replaced by said perforated disc, and said discharge opening is closed so that said spiral cutter will direct meat through said body from said hopper end through said perforated disc, said disc holding means comprising an arcuate shoulder formed around the inside of said tubular body and against which an edge portion of said disc is adapted to abut, and a cap threadedly engaged upon said tubular body and abutting against said disc for holding it fixed against said shoulder, said groove being of dove-tailed form in transverse cross-section, and said strips being shaped so as to be engageable into said groove through said open end when said disc is disengaged therefrom and being engageable by said disc and maintained in position thereby.

2,162,565

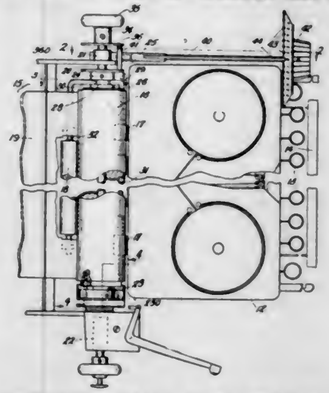
LINE JUSTIFICATION METHOD AND MEANS FOR TYPEWRITING MACHINES

Clifford E. Ritterholz, Cincinnati, Ohio, assignor of one-half to Frank G. Cain, Cincinnati, Ohio

Application June 7, 1935, Serial No. 25,464

11 Claims. (Cl. 197—84)

8. In a typewriting machine the combination with a carriage and a longitudinally adjustable platen and associated paper holding rolls mounted thereon, of a grooved member secured to said platen, a cam operable directly on the walls of said groove to effect longitudinal shifting of the platen to modify at will the normal spacing effected by movement of the carriage and a coop-



erating indicating means and actuating handle positioned at the forward edge of the carriage.

2,162,566

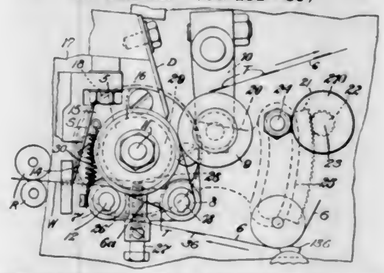
APPLICATION OF SECTIONS OF MATERIAL TO A RUNNING WEB

Jack Shackleton, London, England, assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey

Application September 9, 1937, Serial No. 163,062

In Great Britain September 29, 1936

11 Claims. (Cl. 131—39)



1. In mechanism for applying sections of tipping material to a running cigarette wrapper web, a pressure roll for pressing the sections upon the web, guide rolls for the web adapted to form a lap of the web held by at least one of said guide rolls in engagement with the circumference of the pressure roll and held free of said circumference by another of said guide rolls, and means for adjusting the lap relatively to the pressure roll in a radial direction.

2,162,567

SAFETY LOCK FOR AUTOMOBILE DOORS AND THE LIKE

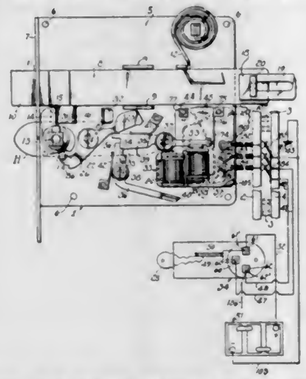
John Shobel and Alfred J. Shobel, Cleveland, Ohio

Application November 8, 1937, Serial No. 173,462

11 Claims. (Cl. 70—264)

1. A door lock having a retractible lock bolt and an outside and an inside operating handle, a lock pawl electrically actuated normally movable to operative position to hold said outside handle against lock releasing movements, said pawl adapted to be operated by key controlled means operative manually from the outer side of the lock to mechanically render said pawl inoperative, or by said electrically actuated means, a key

actuated electric switch, and means operative through said switch from the inner side of said



lock when said key is inserted in said switch and said retractible lock bolt is actuated, for electrically moving said pawl to inoperative position.

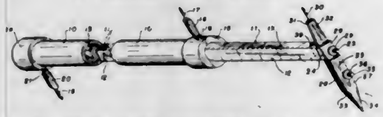
2,162,568

BEAM COMPASS

Albert Ackron, Chicago, Ill.

Application August 19, 1937, Serial No. 159,813

6 Claims. (Cl. 33—27)



1. In a beam-type compass, the combination with an elongated member, of another elongated member operatively connected to said first named elongated member for longitudinal slidable movement relative to each other, a center point associated with an extremity of one of said elongated members, a line writing point associated with the opposite extremity of the other of said elongated members, and another center point associated with said elongated member intermediate said first named center point and said line writing point for reversible interchangeable use of said center points as handles in describing circles of substantially different diameters.

2,162,569

ELECTRIC CIRCUIT INTERRUPTER

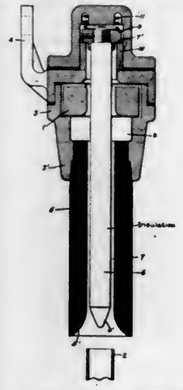
Kuno Bauerschmidt, Berlin, Germany, assignor to General Electric Company, a corporation of New York

Application October 26, 1936, Serial No. 107,711

In Germany November 7, 1935

3 Claims. (Cl. 200—149)

1. An electric circuit interrupter comprising relatively movable contact structure including a tubular contact and a coacting contact, a casing including a cylindrical sleeve-like member composed of insulating material fixed with respect to said coacting contact and having an inner diameter slightly greater than said tubular contact and alined in telescopic relation therewith, said coacting contact being mounted within said casing at a closed end thereof, and a pin member composed of insulating material positioned centrally of said cylindrical member and adapted to extend within said tubular contact in the closed circuit position thereof, said insulating pin being composed of material adapted to emit gas in appreciable quantity when subjected to the arc upon separation of said contact structure, said gas



being expelled from said cylindrical member in the direction of movement of said tubular contact.

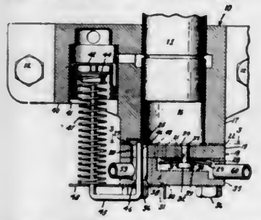
2,162,570

VALVE ASSEMBLY

Harley H. Bixler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 1, 1937, Serial No. 134,329

9 Claims. (Cl. 277—60)



7. A valve assembly for a compressor, or the like, comprising a valve plate having an inlet passage and a discharge passage extending therethrough, said valve plate also having a relief passage extending therethrough, said valve plate having a valve seat thereon extending about one end of said inlet passage, an inlet valve supporting member extending across the face of said valve plate and having an aperture therein extending about one end of said discharge passage and of said relief passage, an integral flexible inlet valve tongue formed on said inlet valve supporting member and cooperating with said valve seat to close said inlet passage, a relief valve element arranged to close one end of said relief passage, means including a helical compression spring for biasing said relief valve element to close said relief passage, and means including a plate having a bendable tab member for adjusting the tension of said compression spring.

2,162,571

OIL BURNER

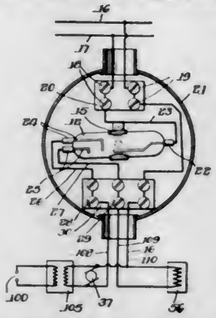
Oscar L. Bock, Madison, Wis., assignor to Bock Corporation, Madison, Wis., a corporation of Wisconsin

Application January 30, 1936, Serial No. 61,570

9 Claims. (Cl. 158—28)

1. The combination with a water tank and

means to heat the water in the tank including a burner, means controlled by the temperature of the water in the tank to control the heating means, of an aquastat extending into the body of the water tank, a thermostatic control element arranged in the aquastat, a switch connected to said element, a fuel line leading to the burner, a valve for controlling the fuel passing through the fuel line, a motor for supplying air to the



burner, ignition means for causing the fuel oil to become ignited, and electrical connections from said mercury switch to said motor, ignition means, and valve, to control the starting and shutting off of said last three elements, said control means including an electric circuit whereby the motor and ignition are caused to operate prior to the operation of the oil valve and to continue operation of the draft and ignition means after shutting off the oil valve.

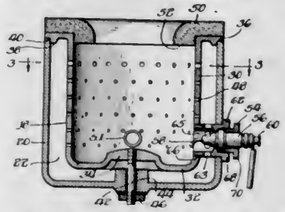
2,162,572

OIL BURNER IGNITION DEVICE

Oscar L. Bock, Madison, Wis., assignor to Bock Corporation, Madison, Wis., a corporation of Wisconsin

Application November 24, 1936, Serial No. 112,557

3 Claims. (Cl. 158—91)



1. In an oil burner of the type comprising a pot having a fuel supply conduit for supplying liquid fuel adjacent the lower portion thereof, a plurality of apertures in the wall of said pot, and a jacket exteriorly of said wall providing a combustion air supplying reservoir for continually causing vaporization of the liquid body of fuel at the lower portion in the pot to provide a volatilized supply of fuel throughout the pot and for continuously supporting combustion of said fuel vapor, the improvement which comprises an ignition electrode extending through the wall of the pot and to a point adjacent a fuel-wetted portion of the pot to form a gap therewith, said electrode being mounted in an electrode holder and spaced therefrom, and means admitting fresh air from said reservoir to said space substantially longitudinally and axially of the electrode and into the pot, whereby to continually bathe a portion at least of the electrode in a column of fresh air.

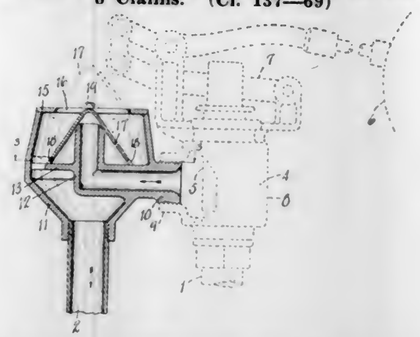
2,162,573

SIPHONPROOF BALL COCK

Herbert D. Clemmons, Sturgis, Mich., assignor to Scovill Manufacturing Company, Sturgis, Mich., a corporation of Michigan

Application December 17, 1938, Serial No. 246,297

8 Claims. (Cl. 137—69)



3. A vacuum breaker comprising a hollow body communicating through an aperture with the atmosphere, an upwardly directed liquid discharge orifice within the body, and a conical baffle member movably supported in the body adjacent to and in position to receive the impact of the discharge from said orifice whereby it is actuated to enter said aperture in said hollow body and close said aperture, said baffle member being normally supported in spaced relation to said aperture, permitting when in normal position the passage of air therethrough to said orifice.

2,162,574

HARD METAL ALLOY

Walther Dawihl, Kohlhasenbruck, near Neubabelsberg, and Karl Schröter, Berlin, Germany, assignors to General Electric Company, a corporation of New York

No Drawing. Application December 23, 1937, Serial No. 181,318. In Germany May 15, 1937

4 Claims. (Cl. 75—136)

1. A hard metal alloy containing more than 30% but not more than 50% by weight of metal of the iron group, about 2 to 10% chromium, the remainder of said alloy consisting of titanium carbide and tungsten carbide in the ratio of from 1:2 to 1:0.5.

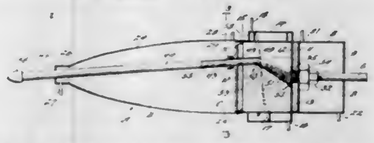
2,162,575

MANUFACTURE AND TREATMENT OF THREADS OF ARTIFICIAL FILAMENTS

John B. Dove, Atlanta, Ga., assignor of forty-nine per cent to Lee Roy Muse

Application August 12, 1936, Serial No. 95,639

14 Claims. (Cl. 18—8)



10. An apparatus for spinning textile filaments from a spinning solution including a spinneret having an extrusion orifice, thermo-mechanical means in connection with the spinneret for producing filaments of different sizes, said thermo-mechanical means comprising a heating chamber and a cold chamber insulated from said heating chamber and adapted to contain a fluid, said spinneret having its inlet end in the heating chamber and its extrusion orifice in said cold chamber, a controlled refrigerating means in connection with the cold chamber, whereby the size of said extrusion orifice may be varied, and means for delivering the filament from said cold chamber.

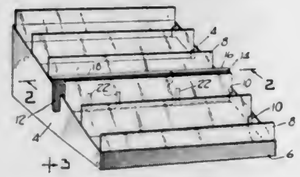
2,162,576

DISPLAY STAND

Landon C. Galton, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York

Application June 30, 1937, Serial No. 151,151

2 Claims. (Cl. 211—126)



1. A device of the class described for use on a display stand having a bottom wall, longitudinal side walls having their upper edges extending above the bottom wall, partitions extending between the side walls, and members arranged adjacent the side walls for receiving the ends of the partitions to removably hold the partitions in place, said device comprising two members of sheet material arranged in side by side relation in sliding engagement so as to permit the members to be relatively moved to vary the length of said device to accommodate it to display stands of various widths, said device being adapted to be inserted between a side of one of the partitions and the articles adjacent said side to hold the articles in place while the partition is being removed and replaced.

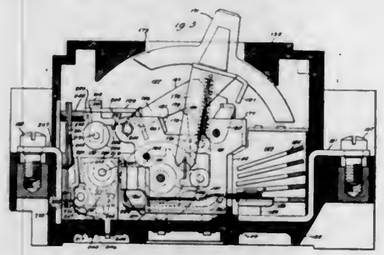
2,162,577

CIRCUIT BREAKER

Harlan S. Gano, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 31, 1936, Serial No. 98,747

20 Claims. (Cl. 200—88)



1. In a multipole circuit breaker, contact means for each pole thereof, common actuating means for moving all of said contact means to an open circuit position and to a closed circuit position, said actuating means including a releasable member having a latched position and a released position which when released causes movement of all of said contact means to an open circuit position, a trip bar extending across all of the poles of said breaker and movable between a normal position and a tripped position, said trip bar having means associated therewith for holding said releasable member in the latched position when said trip bar is in its normal position, and for releasing said member when said trip bar is moved to its tripped position, a plurality of electro-responsive trip devices one for each pole of said breaker each operable in response to predetermined conditions to effect movement of the trip bar to its tripped position, each said trip device including an electromagnet, an armature pivoted adjacent said electromagnet, and a bimetallic trip element secured to said armature, said trip bar being provided with projections, one for each trip device, adapted to be engaged by said trip elements to move said trip bar to tripped position, and means for connecting each bimetallic trip element and its corresponding electromagnet in circuit with its corresponding contact means.

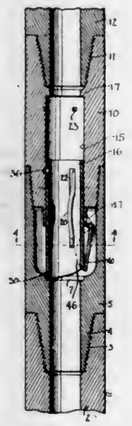
2,162,578

CORE BARREL OPERATED FLOAT VALVE

Marcus L. Hacker, Houston, Tex.

Application May 27, 1937, Serial No. 144,986

6 Claims. (Cl. 255—72)



1. A float valve assembly for drill pipe comprising a drill sub, a valve seat on the lower end thereof, a pivotal valve member on said sub, an adjoining sub, a chamber therein to receive said valve member in open position, a shoulder at the lower end of said chamber, and a sleeve movable longitudinally of said subs to a point above said valve seat so said valve may close and also movable to engage with said shoulder so as to hold said valve member in open position.

2,162,579

ASHPAN

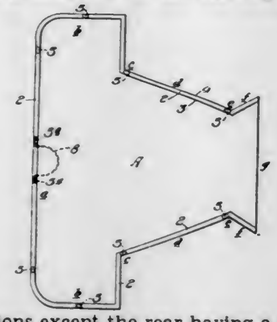
Sidney J. Hogan, Chattanooga, Tenn.

Application December 8, 1938, Serial No. 244,598

5 Claims. (Cl. 65—20)

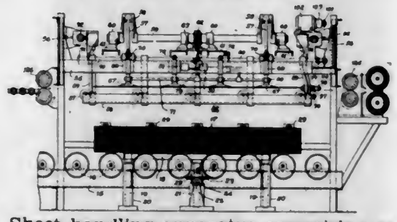
1. An ash pan consisting of a sheet metal blank having a rear open receiving edge, a front maximum width portion extending rearwardly and then inwardly at each side, then converging at each side rearwardly to a minimum width, and

then flaring outwardly to the rear edge, all of its



edge portions except the rear having a surrounding upwardly extending retaining wall.

2,162,580
SHEET-HANDLING APPARATUS
Llewellyn Hopkins, Butler, Pa.
Application August 27, 1938, Serial No. 227,145
17 Claims. (Cl. 271—11)



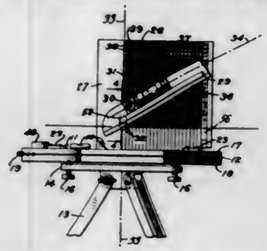
1. Sheet handling apparatus comprising vacuum cups reciprocable vertically above a sheet pack, the cups being movable into engagement with successive top sheets of the pack and arranged to lift sheets vertically from the pack, means for relieving the vacuum in the cups when they have reached their upper limit of travel, a conveyor, means operable during upward travel of the cups, for shifting the conveyor into position to receive sheets released from the cups, and means operable upon further movement of the cups for removing the conveyor.

2,162,581
COMB AND BRUSH SET
Felix Kapelman, Bronx, N. Y., assignor to The Glemby Company, Inc., New York, N. Y., a corporation of Delaware
Application March 3, 1939, Serial No. 259,500
7 Claims. (Cl. 132—85)



1. In combination, a comb having a back, a brush also having a back, cooperating means between the backs of said comb and brush for pivotally connecting the same together, and further cooperating inter-engaging means on opposed portions of said backs for releasably retaining the teeth of the comb and bristles of the brush in juxtaposition to each other, the disengagement of the last named cooperating means permitting relative pivotal movement between said comb and brush.

2,162,582
DEVICE AND METHOD FOR DETERMINING UPPER AIR WIND DIRECTION AND VELOCITY
Howard B. Kaster, Alameda, Calif.
Application December 10, 1936, Serial No. 115,260
10 Claims. (Cl. 33—67)



1. In a unitary device for determining wind direction and velocity at various elevations and adapted for use with a balloon having a known rate of ascension, means for observing said balloon and establishing a line of sight thereon during the ascension, means providing a charting area, and means comprising a revolvable device providing rectangular coordinates for resolving the horizontal component of said line of sight at different elevations thereon and the horizontal angular displacement of said line on to said area.

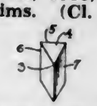
4. The method of determining wind direction and velocity between different known elevations which consists in observing a pilot balloon having a known rate of ascension at said elevations to establish lines of sight thereon at said elevations, locating points on said lines of sight at elevations proportional to said balloon elevations, and projecting said last named points vertically on to a horizontal plane.

2,162,583
NASAL PASSAGE FILTER
Gustav Kjellsson, Brooklyn, N. Y.
Application June 16, 1938, Serial No. 213,978
4 Claims. (Cl. 128—148)



4. A nasal passage filter, comprising a flat ring, a plurality of U-shaped members having their arms passing through openings on opposite sides of said ring and their intermediate portions passing each other on one side of the ring forming a dome, a cloth covering engaged over the outside of said members and adapted to contact the inner wall of a nasal passage, and filtering material within the confines of said U-shaped members on both sides of said ring.

2,162,584
LIPSTICK
Lessing L. Kole, Milwaukee, Wis.
Application May 12, 1938, Serial No. 207,598
3 Claims. (Cl. 132—1)



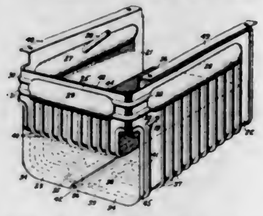
1. A lipstick having sides disposed at an angle

to each other and having a beveled end, the bevel of said beveled portion extending continuously in the same direction across the lipstick and terminating in a sharp edge extending the entire width of the lipstick, whereby to cause the user to apply the lipstick on the beveled face and thereby keep the edge of the lipstick sharp.

2,162,585
AERATED PRODUCTS
Albert Musher, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J., a corporation of New Jersey
No Drawing. Application December 14, 1937, Serial No. 179,791
10 Claims. (Cl. 99—144)

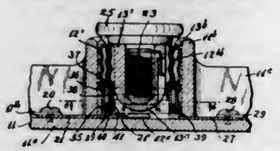
1. An aerated water-containing food material, which is normally incapable of retaining ingested air, and the water of which has been taken up by a water absorbent bodier, and which contains a dispersed hard fat, said bodier and fat forming a substantially plastic product that retains the ingested air.

2,162,586
REFRIGERANT EVAPORATOR
Delbert F. Newman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 12, 1937, Serial No. 147,946
5 Claims. (Cl. 62—126)



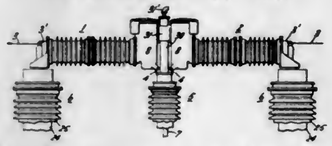
1. An evaporator for refrigerating machines comprising a unitary wall structure including complementary sheet metal portions formed to constitute three wall members providing two upright walls spaced apart and a third upright wall connecting said two walls and integrally joined therewith, said wall members having refrigerant passages formed therein, the wall members which provide said two walls forming the side and bottom walls of a freezing chamber, and the third one of said members being arranged to form a freezing shelf within said chamber and above the bottom wall thereof.

2,162,587
GAS LIGHTER
Joaquina Prendes, New York, N. Y.
Application February 26, 1937, Serial No. 127,881
3 Claims. (Cl. 200—34)



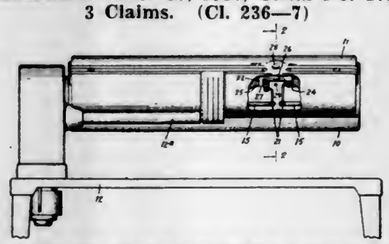
1. In a device of the class described, a plug, a contact below said plug, a stationary socket section having an annular channel on the bottom thereof, a movable socket section for supporting said plug coaxially within said stationary socket section, an annular member slidably mounted within said channel and fixedly attached to the bottom of said movable socket section and being movable towards said contact, a contact member on said plug and movable with said plug to engage said contact when said annular member is moved in towards said contact, a resilient means urging said annular member into an extended position, diaphragm elements having one of their edges attached to said annular member and the other of their edges attached to the sides of said channel for hermetically encasing the annular member within said channel, a vent and a valve for permitting the air to easily escape from said channel when said annular member is being moved toward said contact and for limiting the entrance of air to said channel when said resilient means is urging said annular member back to its normal position to retard the return movement, and said annular channel being positioned around said plug and between said contact and the top of said plug.

2,162,588
ELECTRIC CIRCUIT BREAKER
David C. Prince, Swarthmore, Pa., assignor to General Electric Company, a corporation of New York
Application June 6, 1935, Serial No. 25,267
18 Claims. (Cl. 200—150)



18. An electric circuit breaker comprising means forming an arc chamber having an exhaust opening, relatively movable contacts separable within said chamber substantially opposite said opening, a supply of arc-extinguishing liquid, part of which is in said chamber, means for creating pressure in said chamber for expelling some of said liquid from said chamber through said exhaust opening upon separation of said contacts for extinguishing arcing, means separate from said arc chamber for returning said exhaust liquid to said supply so that said exhaust liquid is used again only after substantially complete use of the unused supply, and valve means for controlling said liquid return in accordance with operation of said pressure-creating means.

2,162,589
TEMPERATURE CONTROL DEVICE
Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 30, 1937, Serial No. 171,927
3 Claims. (Cl. 236—7)



1. An ironing device comprising a pressing body having an ironing face, heating means for said

pressing body, a temperature responsive element carried by said pressing body at a point remote from said ironing face controlling said heating means responsively to temperature changes in said pressing body, and said pressing body having a duct between said pressing body and said temperature responsive element for conducting steam generated under said face in the pressing operation into contact with said temperature responsive element when said ironing face is applied to moistened articles so as to cool said temperature responsive element as the pressing body cools when brought into contact with said articles.

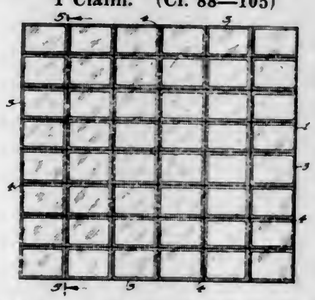
2,162,590

SIMULATED BEVEL VANITY MIRROR

James L. Richter, Far Rockaway, N. Y., and Henry Goldblum, Paterson, N. J.

Substitute for abandoned application Serial No. 114,120, December 14, 1936. This application January 14, 1939, Serial No. 250,886

1 Claim. (Cl. 88—105)



A method of making vanity mirrors, which comprises forming upon a sheet of glass longitudinally extending and transversely intersecting bands of etching, silvering the sheet of glass upon the etched bands and the unetched areas bounded thereby, and severing the sheet into strips by lines of cut centrally of the etched bands, and cutting the strips into individual units by lines of cut directed centrally of the etched bands intermediate the successive unetched areas.

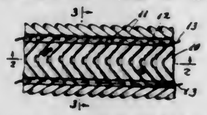
2,162,591

TRIMMING

Peter Schneider, Glendale, Long Island, and Albert Bruchfeld, New York, N. Y.

Application January 17, 1938, Serial No. 185,369

2 Claims. (Cl. 2—278)



1. A trimming, comprising a strip of cloth material, a plurality of continuously repeated folded designs formed along the length of said strip, a pushed out upper edge portion of the central part formed in each of said folds to add to the decorativeness thereof, parallel pressed areas formed along the length of said strip on either side of said pushed out central portions, said pushed out upper edge portions extending above the side portions, a thread pasted along each of said pressed areas for holding said folds and said pushed out central parts in formation, stitches applied to said pressed areas in addition to said threads for assisting said threads in holding the formation.

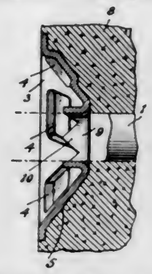
2,162,592

FORM TIE

Tamis C. Schenk, Brooklyn, N. Y., assignor to Richmond Screw Anchor Co., Inc., Brooklyn, N. Y., a corporation of New York

Application December 18, 1937, Serial No. 180,575

1 Claim. (Cl. 25—131)



A form tie comprising a rod upon which a form board spacing disk is located, said disk being of shallow concavo-convex formation and being composed of sheet metal having a conical concrete-contacting face provided with a plurality of spaced projections pressed out of the body of the disk, and formed at its larger end with a radially projecting flat marginal flange, the opposite or smaller end of the conical disk having a central aperture through which the rod extends, said aperture being surrounded by metal forced from the aperture and directed toward the concave side of the disk to form a boss-like flange fitting around the rod, the projections on the disk being wholly located between the marginal flange on the disk and the aperture and having closed ends spaced from the said flange and aperture respectively, whereby a plurality of spaced recesses or pockets free from communication with either the inner or outer ends of the depression formed in the wall will be produced in said depression for the reception of pointing concrete.

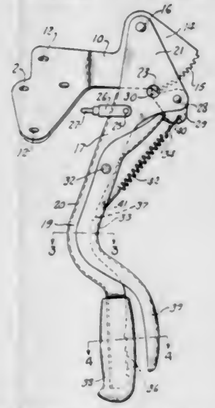
2,162,593

MECHANISM CONTROL

Samuel A. Snell, Toledo, Ohio, assignor, by mesne assignments, to The Logan Gear Company, a corporation of Ohio

Application July 7, 1936, Serial No. 89,344

7 Claims. (Cl. 74—537)



1. In combination, a mechanism control including a support having a plurality of teeth formed thereon; a lever member connected to said support, said lever member formed of sheet metal to U-shaped configuration and terminating at its lower end in a hand grip portion; a pawl pivotally carried by said lever member and arranged for cooperation with the teeth on said support; a pawl manipulating member engageable with said pawl and having a portion terminating adjacent the grip portion of said lever member; and resilient means engaging said manipulating and pawl members for normally urging said pawl into engagement with the teeth on said support.

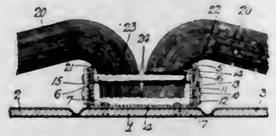
2,162,594

HOLDER FOR LEAVES, CARDS, AND THE LIKE

Berkeley S. Vaughan, Geneva, Ill., assignor to Leon Wheeler, Geneva, Ill.

Application February 8, 1937, Serial No. 124,704

4 Claims. (Cl. 129—8)



3. In a securing device for leaves and the like, a base including parallel upstanding flanges, a fixed post extending across one end of said flanges, a movable post pivoted in relation to the opposite ends of said flanges, and a unit, including a pair of opposed but freely separable binder bars, said opposed binder bars having pins extending toward each other, adapted at one end to interpenetrate with said fixed post, and at the other end to interpenetrate with said movable post, and means for moving said movable post into and out of interpenetrating position with said binder bars.

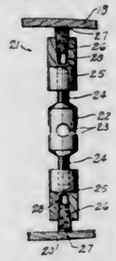
2,162,595

MUSICAL STRING INSTRUMENT

Giuseppe Virzi, New York, N. Y.

Application August 11, 1938, Serial No. 224,245

5 Claims. (Cl. 84—277)



1. A device including a sound post for the sounding box of a musical string instrument, the sound post comprising end heads and an intermediate turnbuckle for adjusting the length of the post, at least one head of the post having an axial inwardly tapered opening, said head having an element of generally porous elastic material wedged into said opening and projecting axially out of the opening to bear against an adjacent wall of the sounding box, the relative sizes of the element and said opening being such that the element is yieldingly movable inward and outward of said opening upon increasing and decreasing the pressure on the element.

2,162,596

FURNACE HEATING ELEMENT

Le Roy L. Wyman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application April 30, 1937, Serial No. 139,938

11 Claims. (Cl. 75—123)

1. An alloy heater element consisting of metal of the iron group and metal from the group consisting of tungsten and molybdenum, the metal from said group consisting of tungsten and molybdenum comprising about 2% to 45% by weight of said alloy.

2,162,597

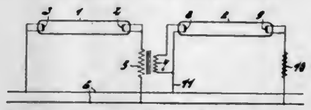
PARALLEL CONNECTED GAS FILLED DISCHARGE TUBE

Gustav Zecher, Eindhoven, Netherlands, assignor to General Electric Company, Schenectady, N. Y.

Application February 15, 1938, Serial No. 190,628

In Germany March 30, 1937

6 Claims. (Cl. 176—124)



1. A device comprising at least two parallel-connected gas-filled discharge tubes, of which at least one tube is equipped with at least one incandescent electrode heated by a heating current, wherein this incandescent electrode of one tube or the heating element of this electrode is connected to the secondary winding of a transformer, whose primary winding is connected in series with the other discharge tube.

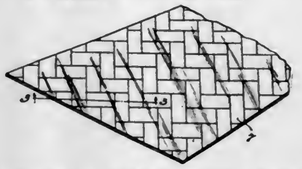
2,162,598

COMPOSITE SHATTERPROOF WINDOW GLASS

Harry N. Atwood, South Lyndeboro, N. H.

Application February 9, 1937, Serial No. 124,944

9 Claims. (Cl. 49—81)



6. The method of making glass panels which consists in encasing individual glass ribbons in transparent plastic material, interweaving the ribbons to form a lock-weave structure, applying transparent plastic material to the upper and lower surfaces of the structure, and subjecting said structure to heat and pressure.

8. A panel having a fixed permanent shape and comprising a core of interwoven glass ribbons of appreciable width individually encased in transparent thermo-plastic material, the said thermo-plastic material being coalesced and thereby intimately united and bonded together to form a solid mass having the ribbons embedded therein.

2,162,599

TRACK RAIL SUPPORTING DEVICE

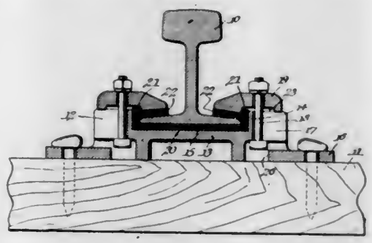
Harry M. Austin and James A. Muir, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application May 15, 1936, Serial No. 80,018

2 Claims. (Cl. 238—283)

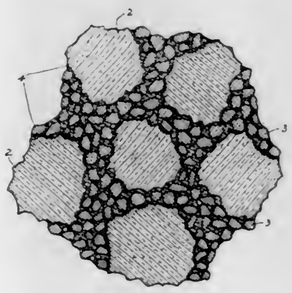
1. A track rail supporting device comprising

a seat member including upstanding side walls between which the width of the rail is adapted to lie, a bodily compressible resilient element rigid along a horizontal plane positioned at the bottom of the space defined between said upstanding side walls, bodily compressible resilient elements rigid along a vertical plane positioned



at the sides of such space, clamping members secured to said upstanding walls and extending inwardly over the space defined therebetween, and bodily compressible resilient elements rigid along a horizontal plane positioned between the under-surfaces of said clamping members and the upper surfaces of the flange of the rail adapted to be secured in the device.

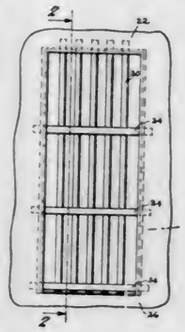
2,162,600
FILLER FOR ABRASIVE ARTICLES
Albert L. Ball, Lewiston, N. Y., assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application July 27, 1936, Serial No. 92,784
7 Claims. (Cl. 51—280)



1. An abrasive article comprising diamond particles distributed at substantial intervals in a mass of metallic particles which are closely packed against each other and against the diamond particles and which have an aggregate mass equal to several times that of the diamond particles, and a resinous bond interconnecting the diamond particles and the metallic particles.

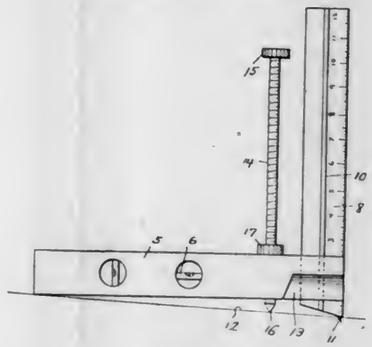
2,162,601
WINDOW
William D. Bayley, Springfield, Ohio
Application April 30, 1938, Serial No. 205,216
24 Claims. (Cl. 189—64)

1. A window assembly for use in an opening in a wall of masonry, said assembly including a metallic frame mounted in spaced relation from the bottom of the window opening so as to leave an open space between the frame and the bottom of the opening, and a window pane disposed in the



space found between the window frame and the bottom of the window opening.

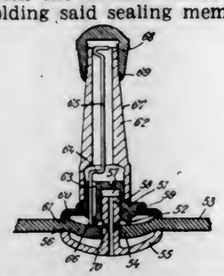
2,162,602
INCLINATION GAUGE
Leo B. Black, Denver, Colo.
Application December 27, 1938, Serial No. 247,905
3 Claims. (Cl. 33—89)



1. An inclination gauge comprising in combination a spirit level having a transverse split formed in one end, a ruler slidably mounted in said split end of the level, means for securing the ruler at a right angle position to the level in said split portion, the lower end of the ruler being pointed and means for adjustably securing the split end of the level in an elevated position.

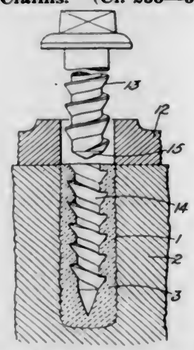
2,162,603
VALVE FOR TIRES AND THE LIKE
Otto Bothe, Dusseldorf, Germany
Application May 20, 1937, Serial No. 143,823
In Germany May 27, 1936
10 Claims. (Cl. 251—119)

1. A valve for the inner tube of pneumatic tires or the like, comprising a hollow valve stem forming an inlet opening, a valve seat on the inner end of said valve stem, an elastic sealing member engageable with said valve seat and forming a chamber surrounding said valve seat in communication with said inlet opening, a bore in said sealing member within the zone defined by said valve seat and adapted for communication with the interior of said tube, and means for holding said sealing member against



said valve seat with an initial pressure before inflation of said tube.

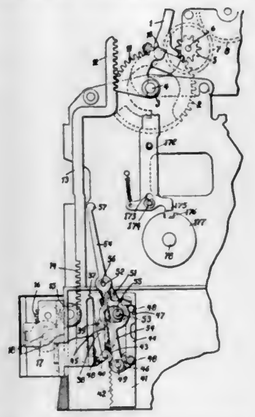
2,162,604
SECURING OF RAIL-CHAIRS TO SLEEPERS
Alfred Cecil Clow, Greenwich, London, England, assignor to Noel Phillips, Emmer Green, near Reading, England
Application September 29, 1937, Serial No. 166,458
In Great Britain October 12, 1936
2 Claims. (Cl. 238—373)



1. A method of securing rail-chairs to sleepers comprising the steps of filling the entire cross-section of a hole in the sleeper with a non-metallic mass in a plastic state which is capable of hardening to a solid non-plastic mass, tamping the plastic mass in place, forming a screw-threaded bore in the mass in the hole while still plastic to present a thread of substantially the same pitch and external diameter as but of greater radial depth than that of a chair-securing screw and screwing a chair-securing screw into the said bore prior to the hardening of the mass to its non-plastic state.

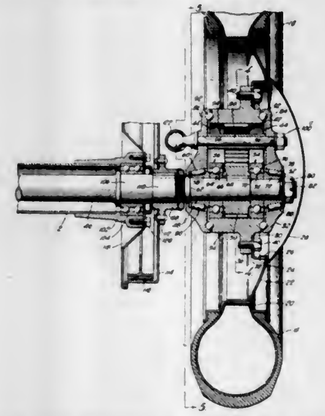
2,162,605
REGISTER LOCKING MECHANISM
Grover C. Coil, Dayton, Ohio, assignor, by mesne assignments, to Central National Bank of Cleveland, Cleveland, Ohio
Application September 12, 1935, Serial No. 40,294
12 Claims. (Cl. 235—130)

1. In a register comprising a plurality of counters, setting mechanism to select the counter which is to be operated, and operating mechanism to actuate the selected counter, means for locking said operating mechanism against operation including an element connected with said setting mechanism for movement therewith and for movement with relation thereto and locks associated with the respective counters, each lock having a part which, if moved to locking position while said setting mechanism is adjusted to select for operation the counter with which said lock



is associated, will impart movement to said element and actuate the locking means for said operating mechanism.

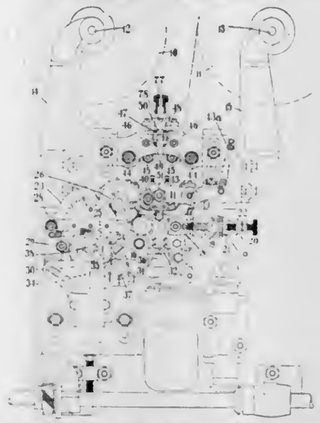
2,162,606
WHEEL DRIVE
Earnest J. Conger, Crawfordsville, Ind., assignor of fifteen per cent to Raymond H. Allen, fifteen per cent to Claude Mitchell, fifteen per cent to William Pearlman, and fifteen per cent to Leo Massing, all of Crawfordsville, Ind.
Application February 8, 1938, Serial No. 189,417
4 Claims. (Cl. 180—10)



1. The combination of a load carrying wheel having a hub, an axle extending into said hub and located beneath the axis of the load carrying wheel, internal track means inside the hub and concentrically arranged therewith, means cooperable on the axle and said track means for shifting the axle laterally of the axis of the load carrying wheel in response to inertia forces on the wheel, said means comprising rotary elements of smaller diameter than the track means and normally lying with their axes vertically aligned with the axis of the load carrying wheel, closure plates rotatably related to the hub and said axle, and manually actuated means con-

nected with said plates for rotating the same and for urging the axle laterally of the axis of the load carrying wheel.

2,162,607
SUPPLY OF MATERIAL IN WRAPPING MACHINES
John Crighton, London, England, assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 18, 1936, Serial No. 111,423
In Great Britain November 20, 1935
21 Claims. (Cl. 164—49)



1. In a wrapping machine of the class described; severing means; and mechanism for feeding wrapping or like material in web form to said severing means, wherein two supply reels are provided, and main feeding means, with two identical sets of auxiliary feeding devices, adapted to be set automatically in operation selectively by the breakage or exhaustion of either web when running, and change-over devices whereby the other web is thereupon automatically delivered to the main web feeding means.

2,162,608
SHAMPOO MASK
Winifred Davis, Cleveland, Ohio
Application November 25, 1938, Serial No. 242,378
2 Claims. (Cl. 2—174)

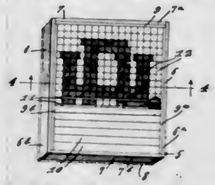


1. A device of the character described, comprising, a head-band having detachable ends and adapted for adjustment about the head of a wearer, a yieldable strap disposed within said band and having ends connected to the latter and coacting therewith to sealingly engage the head, a pliable strip arranged on the inner face of the frontal portion of said band for engagement with the forehead, and a face guard secured to said band subjacent said strip.

2,162,609
ANIMAL FEED
Charles Coleman Dawe, Chicago, Ill.
No Drawing. Application December 17, 1937, Serial No. 180,445
8 Claims. (Cl. 99—4)

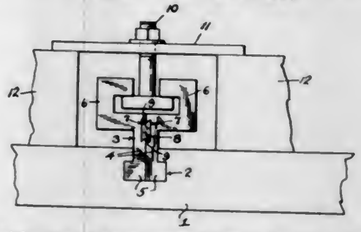
1. A poultry or stock feed comprising a compressed mass of food particles having a binder of a jell-forming hydro-silicate of aluminum.

2,162,610
METHOD OF FORMING MOSAIC OR MARQUETRY DESIGNS
Horace R. Dinsmore, Cambridge, Md.
Application May 27, 1938, Serial No. 210,541
6 Claims. (Cl. 41—23)



5. A method of the class described, consisting of positioning liners against the walls of a chase, positioning rows of furniture pieces between said liners, inserting separators on each side of one of the furniture pieces, removing the end furniture piece to form a channel between one of said separators and one of said liners, assembling a row of tesserae forming a part of a design in said channel, removing the furniture piece from between said separators, assembling another row of tesserae in the channel thus provided, removing one of said separators from between the two lines of tesserae assembled and inserting the same between the next pair of said furniture pieces, thereafter progressively removing said furniture pieces embraced by said separators alternately transposed and assembling rows of tesserae in each of the channels in progressive order to complete said design, removing said liners upon completion of said rows of tesserae, inserting quoins between said walls and said rows of tesserae to secure the latter clamped between said walls, securing the bottom faces of said tesserae to the bottom of said chase, and polishing the upper faces of said tesserae.

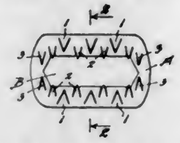
2,162,611
BOLTING OR CLAMPING DEVICE
Harley M. Dreher, Medina, Ohio
Application June 13, 1938, Serial No. 213,542
1 Claim. (Cl. 144—290)



A table top clamp comprising a pair of jaws having outwardly extending flanges at their lower ends, and the table top having a T shaped groove therein for receiving said flanged ends, and a channel shaped part at the upper end of each jaw, the upper flanges of said channel parts being

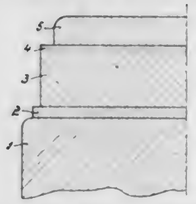
spaced apart for the passage of a bolt, the head of which is held by the channel parts, each jaw having a dove tail shape groove in its inner face and a block having V-shaped grooves in its edges, said block fitting in the grooves to lock the jaws together.

2,162,612
LIPS CLOSING APPLIANCE FOR CORPSES
Alton Ebert, Rittman, Ohio
Application November 8, 1937, Serial No. 173,504
7 Claims. (Cl. 27—1)



6. A normally flat closure for the lips of the mouth of a corpse comprising a single piece of material provided with end portions bridging across the mouth opening and adapted to contact the upper and lower lips, and prongs carried by said end portions adapted to engage the inner sides of the lips of a mouth.

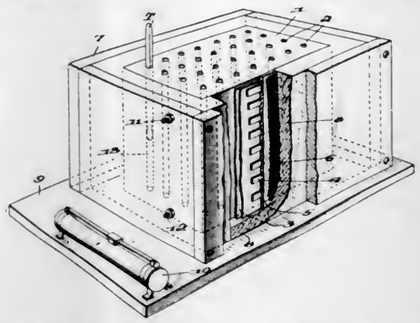
2,162,613
ELECTRODE SYSTEM AND METHOD OF MAKING SAME
Hendrik Emmens and Willem Christiaan van Geel, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application August 9, 1937, Serial No. 158,264
In Germany August 13, 1936
11 Claims. (Cl. 175—366)



1. An asymmetrically-conductive electrode system comprising an electrode of a mixture of selenium and a halide which is readily hydrolyzable with water to form a stable, solid, insulating metal oxide, a second electrode of a material of different conductivity from said first electrode, and an intermediate blocking layer containing a metal oxide formed from the halide present at the surface of said first electrode.

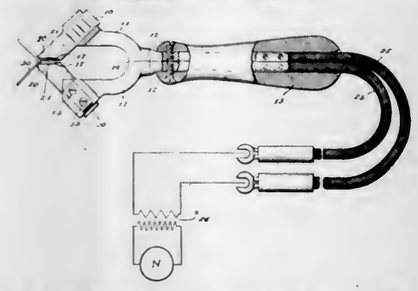
2,162,614
DEVICE FOR STANDARDIZING THERMOMETERS AND OTHER TEMPERATURE MEASURING INSTRUMENTS
Clovis L. Fry and Robert W. Leslie, El Dorado, Kans., assignors to Skelly Oil Company, Tulsa, Okla.
Application December 20, 1937, Serial No. 180,900
2 Claims. (Cl. 73—151)

2. A self-contained testing apparatus for temperature measuring instruments including a base member, a metal block mounted on said base member, said block being provided with a plurality of wells adapted to receive temperature measuring instruments to be tested, a standardized temperature measuring instrument for indicating the temperature of said block, electrical heating means surrounding said block, means for



regulating said heating means, a casing on said base member enclosing said block, and heat insulating means interposed between said block and said casing.

2,162,615
SOLDERING TOOL
George E. Harlan, Indianapolis, Ind.
Application January 27, 1937, Serial No. 122,499
5 Claims. (Cl. 219—26)

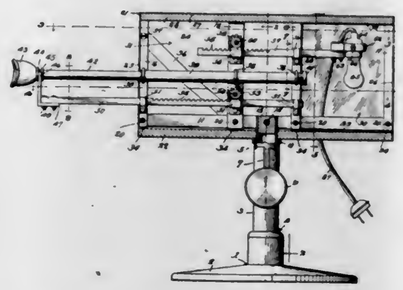


1. A soldering tool, comprising a handle, a pair of electrodes, electrode holders carried by said handle and supporting said electrodes in coplanar relationship and approximately perpendicular to each other, each electrode being rotatably mounted in its associated holder and having an end face disposed at an angle of approximately 45° to its axis, whereby said electrodes by rotation about their respective axes can be disposed either with their end faces opposed and approximately parallel or with such end faces approximately co-planar.

2,162,616
PROCESS FOR THE MANUFACTURE OF ARTIFICIAL RESINS
Willy O. Herrmann, Deisenhofen, and Hans Deutsch and Bruno von Zychlinski, Munich, Germany, assignors to Chemische Forschungsgesellschaft, m. b. H., Munich, Germany
No Drawing. Application May 13, 1936, Serial No. 79,615. In Germany December 22, 1934
11 Claims. (Cl. 260—67)

1. A process which comprises inter-condensing aldehyde by subjecting the same to the action of a condensing catalyst at a temperature not substantially exceeding 100° C. to form a resinous product and then hydrogenating said resinous product.

2,162,617
EYE TESTING INSTRUMENT
Cyrus Hummon, Miami, Fla.
Application December 7, 1937, Serial No. 178,577
1 Claim. (Cl. 88—20)



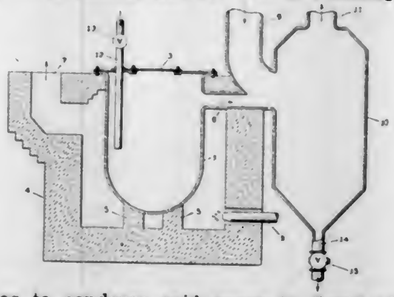
In a patient-operated service for manifesting cataract to the patient, a casing comprising a light-chamber, first and second rack bars, means for supporting the rack bars for longitudinal movement in the casing, shafts extended into the casing and disposed transversely of the rack bars, means carried by the casing for supporting the shafts for rotation, means for rotating each shaft independently of the other at the will of an operator, pinions on the shafts and meshing with the respective rack bars, a lamp carried by the second rack bar and located in the light-chamber, a sight-tube comprising a first tubular member, and a second tubular member extended out of the casing and slidable longitudinally on the first tubular member, the first tubular member having a pin-hole aperture communicating with the light-chamber, the second tubular member having an eye-piece located without the casing, the lamp, the pin-hole aperture and the eye-piece being in a straight line, means for holding the first tubular member fixed in the casing, and means for connecting the second tubular member to the first rack bar, thereby to effect a distance adjustment between the eye-piece and the pin-hole aperture, when the first rack bar is moved longitudinally by the corresponding shaft and pinion.

2,162,618
COATING METAL
Emmette F. Izard, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 25, 1936, Serial No. 97,795
7 Claims. (Cl. 91—68)

7. A metal article coated with a film of water soluble polyvinyl alcohol, said film being readily removable by solution in water and being adapted to protect the surface of the metal from corrosion and tarnishing.

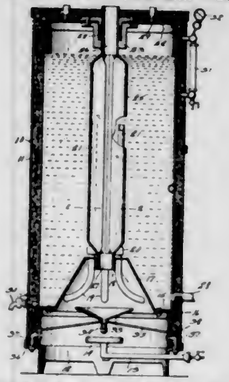
2,162,619
METALLURGICAL PROCESS
Burritt S. Lacy, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 25, 1937, Serial No. 170,856
9 Claims. (Cl. 75—66)

1. The process comprising heating an alkali metal compound with a reducing agent to produce alkali metal vapor and rapidly cooling said vapor to a temperature not higher than about 700° C. by mixing said vapor with a cooling gas



so as to condense said vapor to liquid alkali metal.

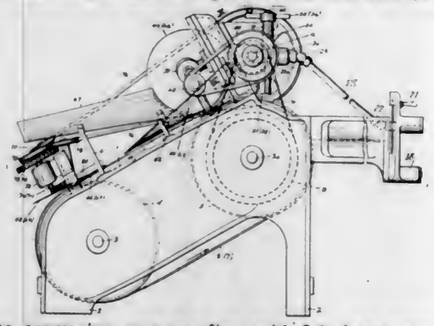
2,162,620
WATER HEATER OR BOILER
Martin I. Larsen, Chicago, Ill.
Application December 5, 1936, Serial No. 114,497
2 Claims. (Cl. 122—16)



1. A water heater, including a liquid containing tank having a top, a substantially conical combustion chamber operatively connected at its lower end to the wall of the tank and extending upward into the tank, a longitudinally extending central flue, opening at its lower end through the upper end of the combustion chamber and at its upper end opening through the top of the tank, said flue having radiating hollow fins and liquid circulation pipes extending downward from the upper portion of the tank through the top of the combustion chamber and then extending outward and downward through the side wall of the combustion chamber and opening to the interior of the tank, the upper ends of said circulation pipes being open, the circulation pipes being disposed between the hollow radiating fins of the flue and in close contiguity to the exterior surface of the fins.

2,162,621
FISH BONE AND SKIN REMOVING MACHINE
Laurentius Laurin, Gothenburg, and Sven Lennart Laurin, Bohus, Sweden
Application November 4, 1936, Serial No. 109,146
In Sweden October 14, 1935
3 Claims. (Cl. 17—3)

1. In a fish bone and skin removing machine, comprising means for conveying the fish with its back resting against said means, a pair of knives mounted in the path of travel of the fish for forming two incisions embracing the entrails and backbone of the fish, deflecting means adapted to flatten out the side portions of the fish over

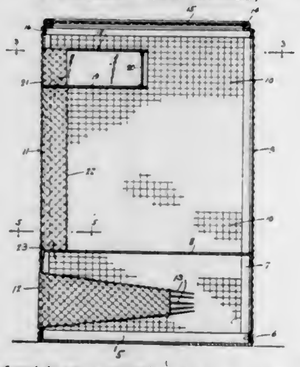


the conveying means after said fish has passed said knives, and further knives for separating the meat of the side portions of the fish thus flattened out from the skin of the fish.

2,162,622
MOTOR TRUCK SCALE
Clarence A. Lindsay, Washington, D. C.
Application May 26, 1938, Serial No. 210,206
11 Claims. (Cl. 265—71)

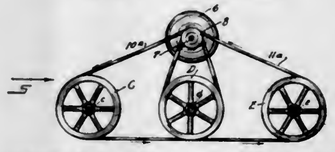
1. In a weighing scale, the combination of a load receiving platform, a lever system including triangular levers one at either end of the scale and each having fulcrum and load pivots arranged transversely to the movement of the load, additional levers one for each corner of the scale having fulcrum and load pivots arranged transversely to the movement of the load, and means for transmitting movement of the additional levers to the load pivots of the triangular levers.

2,162,623
MOUSE AND RAT TRAP
George P. Livingston, Quincy, Fla.
Application November 7, 1938, Serial No. 239,358
3 Claims. (Cl. 43—65)



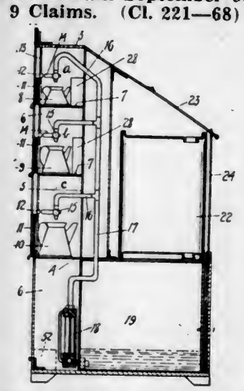
1. A rodent trap comprising an enclosure, a substantially conical entrance tunnel extending within the enclosure and having its apex end open and innermost, a floor above the entrance tunnel and having an opening therein, an elevated tunnel in the enclosure, and a chute extending upwardly from adjacent the opening in the floor to the elevated tunnel.

2,162,624
TRANSMISSION DRIVE
Leland H. Logue, Denver, Colo., assignor, by mesne assignments, to Mining Process and Patent Company, a corporation of Delaware
Application May 6, 1935, Serial No. 20,016
3 Claims. (Cl. 74—223)



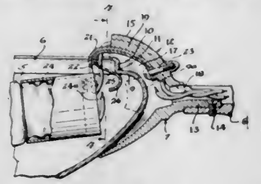
1. A transmission drive comprising, a series of three driven members, a driving element, a driving connection between the driving element and a plurality of the driven members, and a second driving connection between the driving element and a different plurality of the series, one of the driven members being common to each plurality.

2,162,625
DISPENSING CABINET FOR OILS OR OTHER FLUENT MATERIALS
Alexander McLeay Lowe, Musselburgh, Midlothian, Scotland
Application April 14, 1939, Serial No. 267,760
In Great Britain September 9, 1937
9 Claims. (Cl. 221—68)



1. Apparatus for use in dispensing measured quantities of liquids or fluent solid materials, comprising a cabinet subdivided by partitions into a series of compartments each adapted to contain a measuring vessel or pouring can, means for supplying and controlling the supply of liquid or fluent solid material to the measuring vessels, a door fitted to the front of each compartment, and means adapted to interlock with said means for controlling the supply of the liquid or fluent solid material to the measuring vessel and arranged in the path of movement of said doors, whereby such supply to any compartment is shut-off when the door of that compartment is open or partially open and can only be established when the door is closed.

2,162,626
ELECTRIC LIGHTING FIXTURE
Glenn E. MacFadden, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application March 24, 1937, Serial No. 132,798
3 Claims. (Cl. 240—78)

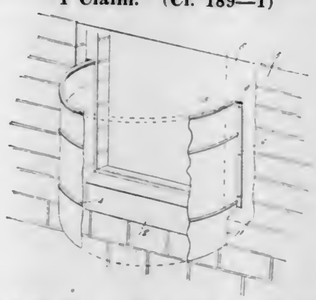


1. An electric lighting fixture including a lamp, a bowl-shaped diffuser for modifying the light emitted by said lamp, said diffuser having a flare and being formed at its open end with an inwardly directed flange, a holder for supporting said diffuser wholly by one side, said holder having a head which is formed to provide arcuate horizontal and vertical members, said vertical member fitting over said flare and terminating at its upper end in the vicinity of the open end of said diffuser while said horizontal member engages said flare at opposite sides of said vertical member, the under side of the upper end of said vertical member being recessed to provide a cavity and a strip which is secured in said cavity, said strip being formed to provide a resilient loop, the free end of said loop entering the open end of said diffuser and being formed to provide a finger which engages said flange behind the area engaged by said head, said finger being yieldable to release said diffuser when its free side is lifted.

2,162,627
ALLOY
Alpine R. MacGregor, Forest Hills, Pa.
No Drawing. Application December 2, 1937, Serial No. 177,821
1 Claim. (Cl. 75—153)

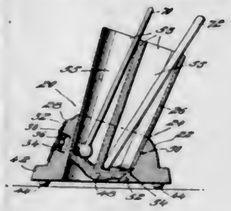
An alloy comprising 7 to 8.5 per cent phosphorus, 1 to 3 per cent silver, and the balance substantially all copper amounting to 88 to 92 per cent, said alloy being characterized by high fluidity at temperatures near its melting point, and by fine crystal structure and light color in the as-cast condition.

2,162,628
AREAWAY CONSTRUCTION
Raymond J. Martin, White Plains, N. Y.
Application August 22, 1938, Serial No. 226,203
1 Claim. (Cl. 189—1)



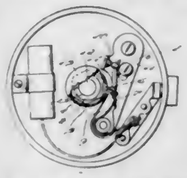
In an areaway construction for the windows of buildings, a semi-circular metallic retaining wall having its edge portions secured to the opposite side of the window frame, said edge portions at the bottom thereof being cut away to conformably fit over the window sill to position the lower edge of the retaining wall at a plane below the window and a metallic apron covering the window sill between the edges of the retaining wall.

2,162,629
RECEPTACLE
Clifford A. McBride, East Providence, R. I.
Application November 8, 1938, Serial No. 239,475
9 Claims. (Cl. 40—1)



3. A receptacle comprising a base member of substantial height having a body portion having advertising matter on the outer surface of the wall thereof and a socket, a tumbler having advertising matter on the outer surface of the wall thereof fitting within said socket, and means to permit complete insertion of said tumbler within said socket only in a predetermined position to display its advertising matter above said base member in the desired manner, said tumbler being positioned to stand at an acute angle with respect to the plane of the base.

2,162,630
SHAPER OR GRINDER
Harry James McDevitt, Media, Pa.
Application January 13, 1939, Serial No. 250,671
2 Claims. (Cl. 51—241)

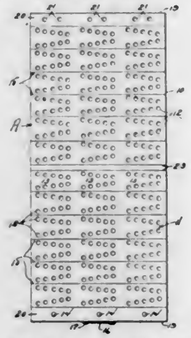


1. A shaper for the cam contacting fibre of a movable breaker arm, comprising a body portion having a tubular portion at its inner end to fit over the upper end of the distributor shaft and to cover the distributor cam to render it inoperative and having means to lock with said shaft, and the outer periphery of said tubular portion having an abrasive surface.

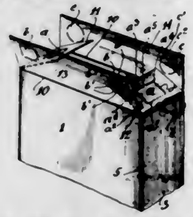
2,162,631
GAME COUNTING DEVICE
Joseph D. McOsker, Allston, Mass.
Application December 28, 1937, Serial No. 182,135
4 Claims. (Cl. 235—90)

1. A device of the kind described comprising a board proper of elongated formation and having a flat scoring field provided with independent spaced rows of holes such holes being arranged zigzag within a straight path to opposite ends of the row in one direction only for effecting

spaced parallel lanes, each line of the zigzag including a plurality of holes and pegs engageable in said holes for counting purposes.



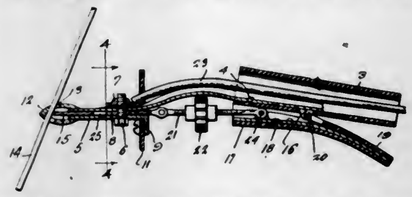
2,162,632
POURING CARTON
Eustace C. Meek, Upper Montclair, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application January 27, 1938, Serial No. 187,134
10 Claims. (Cl. 229—17)



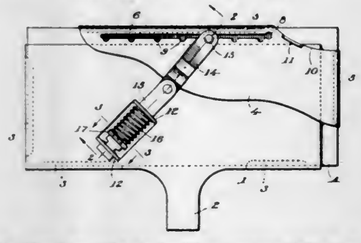
1. A pouring carton for granular material including, a box member formed of paperboard material including, two relatively wide side wall panels and two relatively narrow side wall panels positioned between said wide side wall panels, an end closure for said box member formed by a tuck-in flap hinged to and extending from each of said narrow side wall panels, and superimposed overlapping end closure flaps extending from said wide side wall panels, adhesive means for securing said flaps together, one of said tuck-in flaps having a rectangular-shaped punch-in portion severable from its flap along three side edges and hinged to its flap along the fourth side edge thereof, the superimposed end closure flap having a rectangular-shaped punch-in portion severable from its flap along all side edges, and said end closure flap superimposed over the end closure flap last named having a generally circular punch-in portion severable from its flap along all side edges, said punch-in portions being arranged in substantially aligned relationship, said punch-in portions when pushed inwardly defining a generally circular pouring opening and a rectangular-shaped inclined guide element for guiding the granular material thereover in a smooth flow through said pouring opening.

2,162,633
ELECTRODE HOLDER
Ford S. Miller, New Salem, Kans.
Application April 23, 1938, Serial No. 203,925
5 Claims. (Cl. 219—8)

1. An electrode holder comprising a pair of spaced metallic bars, a metallic loop, for the reception of an electrode, mounted on one end portion of said bars, a handle on one of the bars, a rockable lever pivotally mounted, at an intermediate point, on said handle, a jaw slidably mounted between the bars, said jaw projecting into the loop and engageable with the electrode in said loop for clamping said electrode in position, and means operatively connecting said jaw to the rockable lever for actuation thereby.

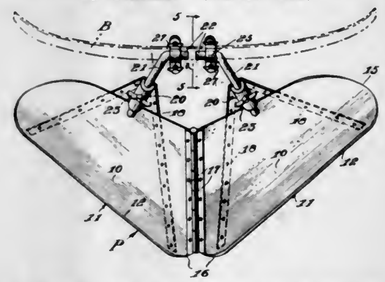


2,162,634
LICENSE PLATE HOLDER
Fred Paine, Hollidays Cove, W. Va.
Application October 3, 1938, Serial No. 233,086
5 Claims. (Cl. 40—125)



1. A license plate holder comprising a body plate and a clamping plate, channel flanges formed on the body and clamping plates for receiving the edges of a license plate therein, and a lever having one end resiliently connected to the body plate and its opposite end pivotally connected to the clamping plate for drawing the latter against the license plate for securing the same to the holder.

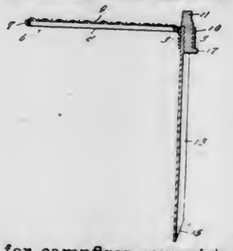
2,162,635
SNOW PLOW
Simon P. Peereboom, Rockville Centre, N. Y.
Application August 31, 1938, Serial No. 227,835
4 Claims. (Cl. 37—44)



1. A snow plow for automobiles comprising a pair of wings hingedly connected together at adjacent ends, the hingedly connected ends sloping downwardly and forwardly and defining the prow of the plow, the wings sloping downwardly and

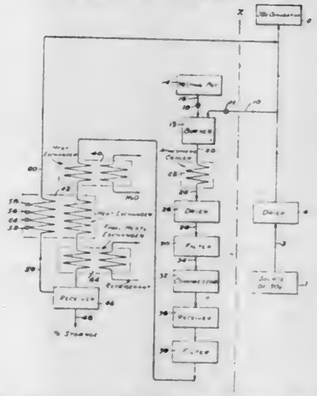
rearwardly from the hinged ends and being rounded at their rear ends, and means supported by each wing for adjustably securing the plow to a bumper of an automobile.

2,162,636
GRILL FOR COOKING FOODSTUFF OVER CAMPFIRES
Harold D. Peoples, Canton, Ohio
Application June 3, 1938, Serial No. 211,657
2 Claims. (Cl. 248—121)



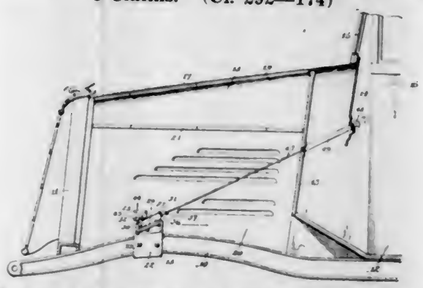
1. A grill for campfires comprising a horizontally arranged grill element, a sleeve formed on said grill element, a supporting post adapted to be driven into the ground adjacent a fire and including walls integrally connected and coacting to form a V in cross section of the post, a plate formed on the post within the V thereof and cooperating with the walls of said post in forming a four-point bearing contact with the sleeve when the latter is positioned on said post, and an extension formed on said plate for limiting the downward movement of the sleeve on the post and for providing a strike face to permit driving of the post out of the ground.

2,162,637
PROCESS FOR THE PRODUCTION OF LIQUID SULPHUR DIOXIDE
Harold M. Pitt, Jr., Los Angeles, and Alfred M. Esberg, Mountain View, Calif.
Application July 6, 1937, Serial No. 152,086
11 Claims. (Cl. 62—175)



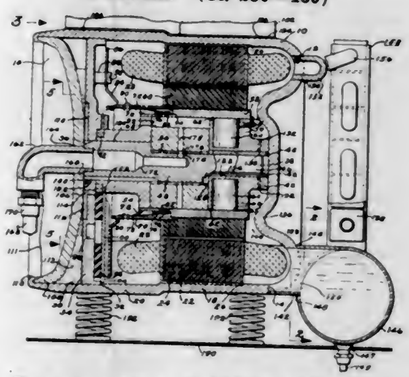
1. The process which comprises diverting a portion of gas containing sulphur dioxide flowing between a source of said gas and a separate station for chemically reacting the sulphur dioxide in said gas, removing a part of the sulphur dioxide from said diverted gas, and recombining the residual gas with the remaining undiverted portion of said gas before reaching said station.

2,162,638
DASH MANIPULATED HOOD LOCK
Robert C. Plueckhahn, Buffalo, N. Y.
Application April 28, 1937, Serial No. 139,543
3 Claims. (Cl. 292—174)



3. A locking-device for hoods of automobiles designed to lock the hood against opening movement, comprising a support secured to the chassis of the automobile and having an upwardly and rearwardly inclined bearing face, a lock member seated on said bearing face and adjustable on said support, said lock member being adapted for locking engagement with a second lock member secured to a wall of the automobile hood, said first-mentioned lock member having a spring-pressed lock-bolt adapted to lock said lock members together, and an actuating rod articulated to said lock-bolt and extending rearwardly therefrom to a point within the automobile body in a plane above that of the highest point of said support whereby adjustment of said first-mentioned lock member can be made without causing binding action of any of the movable parts of the device.

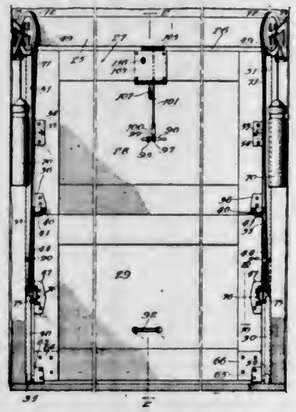
2,162,639
COMPRESSOR OR PUMP
William G. Pontis and Carl H. Kindl, Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 18, 1933, Serial No. 652,264
Renewed March 5, 1936
5 Claims. (Cl. 230—139)



1. In a compressor, a housing having an open end and an internal shoulder adjacent said open end; an auxiliary end cover in said housing and in engagement with said shoulder; and a dished end cover in the housing and engaging with its central portion the auxiliary end cover and so as to form together with the latter a compartment within the closed housing, and the rim portion

of the dished end cover extending toward the open end of the housing and being secured thereto by an overlapping end portion of the housing and a compressor unit within the housing.

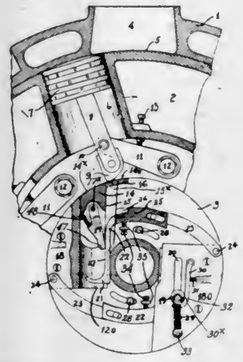
2,162,640
DOOR
Claude L. Post, Chicago, Ill.
Application February 24, 1937, Serial No. 127,430
9 Claims. (Cl. 20—20)



1. A collapsible door of the kind described comprising a plurality of door sections arranged one above the other when the door is in its closed position, trackways on both sides of the door, a pair of aligned rollers on each door section riding in said trackways, a rod pivoted to one of said door sections, means fixed with respect to the trackways for pivoting the other end of said rod, a second rod having one of its ends pivoted to one of said door sections and having the other of its ends pivoted to another of said door sections, a hook secured to one of said rods, and means engageable by said hook when the door is in its open position to support one end of one of said door sections when said door is in its open position, said rods cooperating with said rollers to collapse said door when one of said door sections is raised to open said door.

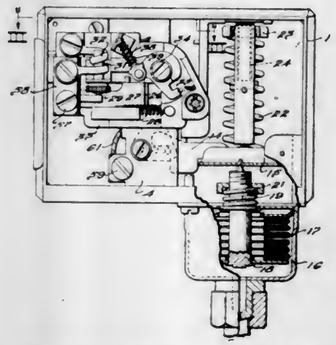
2,162,641
DOUGH DIVIDING MACHINE CONSTRUCTION
Herbert C. Rhodes, Portland, Oreg., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application October 23, 1937, Serial No. 170,539
22 Claims. (Cl. 107—15)

10. In a dough divider having a source of supply of dough under pressure and a rotor provided with a plurality of measuring chambers arranged to communicate periodically with said source and having pistons reciprocable in said chambers for receiving and discharging measured quantities of said dough: the combination with said pistons of an operating cam device disposed centrally of said rotor and comprising a peripheral cam track adapted to move said pistons outward periodically to discharge the charges of dough from said chambers; said cam device having a sector of said peripheral track provided with a cam segment adapted to retire under the charging pressure communicated through the dough and through the pistons in turn; and means to damp said retirement, said damping means comprising a J-shaped abutment member mounted on the body of the cam, and a swinging strut carried by



the cam segment with its free end in position to be engaged progressively with the inner arcuate foot of the J-shaped member.

2,162,642
ELECTRIC SWITCH
Carl A. Schaefer, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 21, 1936, Serial No. 112,089
9 Claims. (Cl. 200—83)

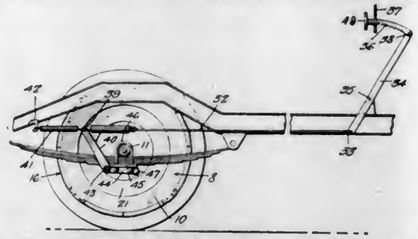


1. In an electric switch, separable contacts, normally operable means responsive to an exterior condition for separating said contacts, abnormal means responsive to current overload for separating said contacts, auxiliary contacts in circuit with said switch, and means for opening said auxiliary contacts while resetting said abnormal means.

2,162,643
ANTISKID DEVICE FOR VEHICLES
George Lewis Schiding, York, Pa.
Application January 26, 1939, Serial No. 252,969
4 Claims. (Cl. 188—5)

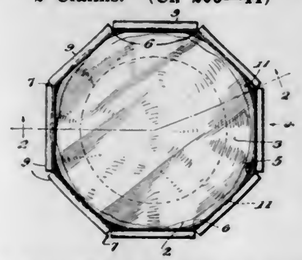
1. An anti-skid device comprising, a supporting frame adapted for attachment with the axle of a vehicle, said frame including spaced members having parallel flanges thereon, a ring surrounding said axle and supported within said parallel flanges, a plurality of segmental shaped members movably supported within said flanges and normally held in contact with the outer periphery

of said ring, and means associated with said ring for urging the same outwardly whereby at least



one of said segmental shaped members is forced into contact with the ground.

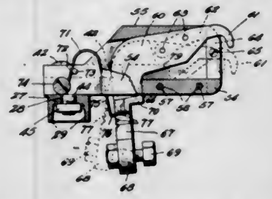
2,162,644
PROTECTIVE DISPLAY WRAPPING
Jonas Schuchat, Chicago, Ill.
Application August 9, 1937, Serial No. 158,248
2 Claims. (Cl. 206—44)



1. In a protective wrapping for commodities, a plate-like member for the commodity having a peripheral flange, an endless yieldable band polygonal in form and of a size to frictionally engage the peripheral flange of said member, said band being deformable from its normal polygonal state to pass telescopically over the peripheral flange of the plate member to surround and support the same without deforming the peripheral flange, said band having in spaced relation to its marginal edges at least three spaced parallel longitudinally extending hinge score lines throughout its length and a plurality of spaced transverse slits therethrough between the outer score lines and transverse scorings extending from the ends of the slits to the edges of the band, whereby portions of the band between the slits and the outer longitudinal score lines are outwardly deformable along outer and intermediate score lines to define a series of substantially angular inner recesses with substantially straight yielding walls for receiving and engaging spaced portions of the peripheral flange of the plate member with a snap action in the passage of the band thereover, said band being collapsible to form the recesses when telescopically applied to said member by downward pressure, the engagement of the peripheral flange of the plate member with the outwardly deformed walls of the recesses allowing the band to return to substantially its normal polygonal form with the member yieldingly supported at spaced points between walls forming the recesses.

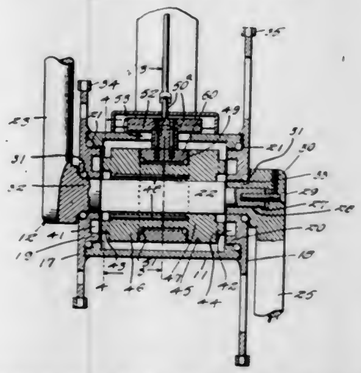
2,162,645
SELVAGE TRIMMING TEMPLE FOR LOOMS
Andrew B. Shelton, Columbus, Ga.
Application March 10, 1937, Serial No. 130,195
2 Claims. (Cl. 139—303)

1. In a loom temple, a support adapted to be secured upon a loom, a head carried by said support, upper and lower rollers carried by said head, a cutter housing carried by said head adjacent outer ends of said rollers and open at its front end, the front opening being extended forwardly to provide a bottom opening, a blade in the cutter housing mounted at one side of the open front end of the cutter housing and sharpened along its front edge, a grapple in said housing slidable longitudinally therein and tiltable vertically, a bill at the front end of said grapple for engaging threads and drawing the thread into engagement



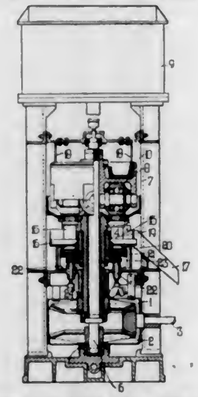
with said blade when the grapple is tilted downwardly and slid forwardly in the housing, an actuating arm extending downwardly from the grapple through the bottom opening at the open front end of the cutter housing and having its rear face formed with vertically spaced seats, and a spring carried by said head and having a vertically disposed front arm formed at its free end with a tooth engaged in a selected seat of the arm of said grapple to yieldably resist downward tilting movement and forward sliding movement of said grapple.

2,162,646
CLUTCH MECHANISM
Clarence A. Shipman, Los Angeles, Calif.
Application September 16, 1937, Serial No. 164,241
2 Claims. (Cl. 192—82)



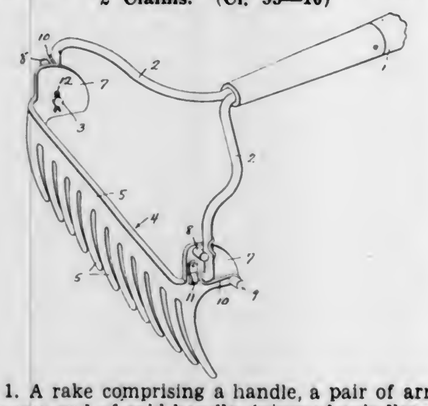
1. Apparatus of the class described having a cylindrical hub, rotatable parts interfitted with the hub at opposite ends and constituting closures therefor, means extending through the hub and said parts to prevent detachment of the latter, clutch portions on said rotatable parts on the inner faces thereof, and a clutch member slidable on said means having clutch portions at opposite ends to selectively engage the first mentioned clutch portions, a ring about the clutch member having a head extending therefrom, said hub having a slot through which the head passes, and operating means connected to said head.

2,162,647
MOLDING MACHINE FOR PLASTIC SUBSTANCES
Albert William Sizer, Hessle, Kingston upon Hull, England
Application December 13, 1938, Serial No. 245,525
In Great Britain November 28, 1938
3 Claims. (Cl. 107—8)



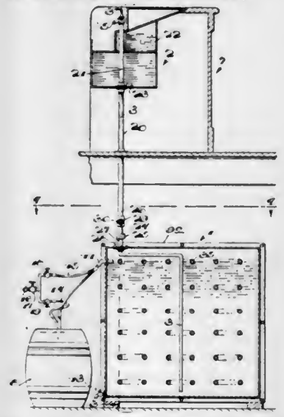
3. A molding machine for plastic substances comprising in combination an annular die plate, a sleeve driving said die plate, a roller in rolling contact with one side of said die plate, a cage carrying said roller, a driving shaft guided coaxially in said sleeve and driving said cage, a common driving means for said shaft and said sleeve, a trough carried on said cage and having an opening in its base to feed meal to the die plate ahead of said roller, a perforated masking plate carried on said trough and adjustable relatively thereto to control the size of said opening, and a fixed scraper cooperating with said masking plate.

2,162,648
RAKE
Harold R. Slusher, Blandinsville, Ill., assignor of one-half to Carroll R. Blackledge, Blandinsville, Ill.
Application April 23, 1938, Serial No. 203,912
2 Claims. (Cl. 55—10)



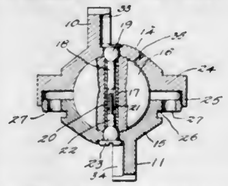
1. A rake comprising a handle, a pair of arms on one end of said handle, inturned spindles on the free ends of the arms, a head mounted for swinging movement on the arms, said head including a bar, a series of teeth on said bar and substantially segmental plates on the ends of the bar journaled on the spindles, pins projecting from the plates and engageable with the arms for limiting the swinging movement of the head in opposite directions, resilient means connected to the head for returning said head to operative position, and means on the plates engageable with the arms for positively securing the head in operative position.

2,162,649
BEVERAGE COOLER FOR BARS
Jacob J. Spitz, Rochester, N. Y.
Application June 11, 1938, Serial No. 213,264
14 Claims. (Cl. 62—141)



14. An apparatus for cooling beverages for bars including a lower cooler provided with a plurality of separate liquid cooling compartments and designed to be located in a cellar or basement, a cooling coil having portions traversing the compartments of the lower cooler, means for supplying beverages to the separate compartments of the lower cooler, an upper cooler containing a cooling liquid and located at a bar in a room above that containing the lower cooler, a plurality of dispensing means located adjacent the upper cooler, supply pipes connected with the dispensing means and extending through the upper cooler and from the same to the compartments of the lower cooler, pipes extending from the upper cooler and connected with the coil of the lower cooler, said pipes permitting the upper and lower coolers to be located in various positions and at spaced points, and means for causing a circulation of the cooling liquid from the upper cooler to and through the coil of the lower cooler and back to the upper cooler.

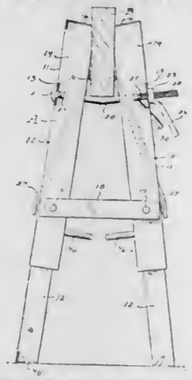
2,162,650
WEIGHT BEARING HINGE
Paul M. Stephens, Columbia, Mo.
Application July 25, 1938, Serial No. 221,184
2 Claims. (Cl. 16—191)



1. A weight bearing hinge comprising leaves, shells on the leaves coacting in forming a socket, flanges on the shells, a weight bearing ball in the socket spacing the flanges apart, a sectional pivot pin disposed axially in the ball having ball

heads fitting in cup shaped seats in the ball, and means carried by the flanges for limiting relative movement of the shells on the ball.

2,162,651
SUPPORT FOR SCAFFOLDS
Peter Thomson, Wilmington, Del.
Application October 29, 1938, Serial No. 237,726
7 Claims. (Cl. 304—5)



1. In a scaffold beam support, a support comprising upper and lower angle iron leg sections, a sheet metal strap member connected across the flanges of the upper leg section and having its intermediate portion formed into a socket, a nut held against rotation in said socket, a right triangular clamping shoe retained in position by the strap member for engagement with the lower leg section and having a socket in its diagonal face, and a clamping screw threaded thru the nut and having its free end engaging in the socket of the clamping shoe for clamping the leg sections in longitudinally adjusted relation.

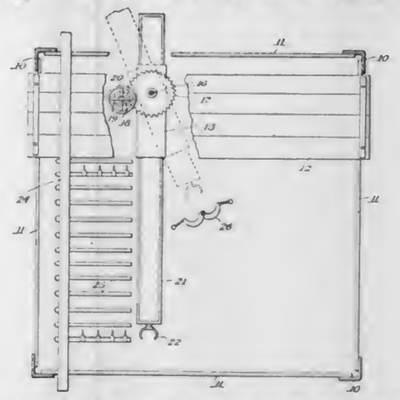
2,162,652
FASTENER
George A. Tinnerman, Rocky River, Ohio, assignor to Albert H. Tinnerman, Cleveland, Ohio
Original application October 12, 1937, Serial No. 168,673, now Patent No. 2,140,887, dated December 20, 1938. Divided and this application December 13, 1938, Serial No. 245,471
6 Claims. (Cl. 24—221)



1. A spring fastener comprising a strip of metal bent intermediate its ends to provide a base and spaced holding elements projecting therefrom, each of said holding elements comprising a section of the strip bent back upon one side of said base to provide yieldable head elements carrying leg members, said leg members extending to the opposite side of said base of the fastener and having bends providing hook elements extending in opposite directions.

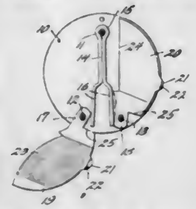
2,162,653
PIPE RACKER
Thomas J. Umphres, George West, Tex.
Application April 9, 1937, Serial No. 136,020
1 Claim. (Cl. 214—1)

A pipe racker comprising the combination of a derrick, a platform on the derrick, a casing pivoted near its rear end on the platform and swingable on a vertical axis, a gear fixed to the pivot of the casing for rotating the casing, a shaft journaled on the platform, a pinion on the shaft engaging the gear, a hand wheel fixed to the shaft, a bar telescopically assembled with the casing and of longer length than the casing, a member connected with the bar to which may



be connected means for moving the bar forwardly or rearwardly relatively to the casing, and a shoe on the free end of the bar adapted to be engaged with the pipe to be racked or to be withdrawn from the rack.

2,162,654
POCKET KNIFE
Harold C. Vaisey, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application December 17, 1937, Serial No. 180,468
1 Claim. (Cl. 30—155)

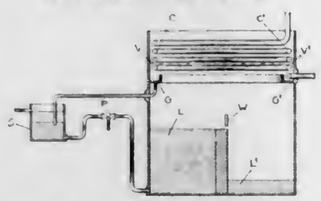


A coin-shaped pocket knife comprising a pair of opposed spaced plates, a single stud located adjacent the periphery of the pocket knife and connecting the plates, a pair of spaced studs connecting the plates adjacent the periphery of the pocket knife at points approximately diametrically opposite the single stud, a spring extending diametrically across the knife from the single stud to the space between said pair of studs and provided at one end with an eye arranged on the single stud, said spring being composed of two similar sides provided with straight portions arranged in contiguous mutual supporting relation and extending from said eye to a point approximately midway the length of the spring, said sides being offset from each other and spaced apart at the inner ends of the straight portions and providing an approximately U-shaped formation, the outer ends of the spaced portions being located between the spaced studs, and a pair of blades pivoted between the plates by said pair of studs and engaged by the spaced sides of the U-shaped portion of the spring, the outer ends of said spaced portions of the spring being arranged to form stops for limiting outward swinging movement of the blades on the pivot studs.

2,162,655
PRODUCTION OF SOLID AMMONIUM PERPHOSPHATE
Walter Völkel, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold und Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application July 29, 1936, Serial No. 93,254. In Germany August 1, 1935
11 Claims. (Cl. 23—107)

1. A process for preparing solid ammonium perphosphate which comprises the steps of reacting an aqueous solution of potassium perphosphate with an ammonium salt of an acid radical whose corresponding potassium salt is so much less soluble than said ammonium salt and potassium perphosphate that the former potassium salt precipitates in substantially quantitative amounts during the reaction, the conditions of said reaction, as to concentrations of the aqueous reagents and temperature employed during the reaction, being so selected as to insure substantially quantitative precipitation of said potassium salt, separating said precipitated potassium salt and then treating the resulting solution of ammonium perphosphate to recover said perphosphate in solid form.

2,162,656
DEGREASING PROCESS
Charles J. S. Warrington, Westmount, Quebec, Canada, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 22, 1936, Serial No. 81,336
In Canada May 22, 1935
5 Claims. (Cl. 87—6)

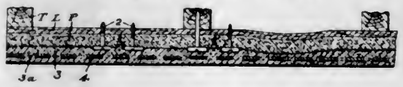


1. Process for degreasing and simultaneously removing aqueous emulsions of soap or soap-like bodies from metal parts which comprises treating said metal parts with a water-immiscible, volatile organic solvent in the presence of a volatile material which is substantially insoluble in water but soluble in the solvent and which facilitates the dispersion of the water emulsion in the solvent, removing water, volatile material and solvent by distillation, condensing the distilled vapors, stratifying the condensate into a water layer and a solvent layer, the latter containing the predominate proportion of the volatile material and returning volatile material and solvent to the system.

2,162,657
METHOD OF PRODUCING COMMERCIAL ALKALI PHOSPHATES
Andreas Wehrstein, Vienna, Austria, assignor to the firm Persil Gesellschaft Henkel & Voith m. b. H., Vienna, Austria, a company of Austria
No Drawing. Application August 16, 1937, Serial No. 159,439. In Austria September 21, 1936
1 Claim. (Cl. 23—107)

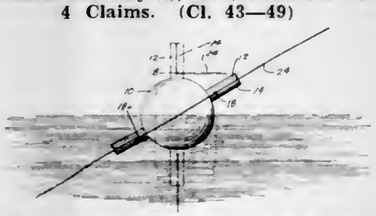
In the production of commercially pure alkali metal phosphate from crude phosphoric acid, by neutralization, in stages, with alkali metal carbonate, without preliminary purification, and with separating out of the impurities in a stage of neutralization approximately half-way between monophosphate and diphosphate, at a concentration of 28%–60% P_2O_5, the steps which consist in precipitating out the impurities, and particularly iron, by the addition of alkali metal sulphide in an amount less than about 1% based on the weight of the crude H_3PO_4 and filtering out the resulting precipitate in the presence of the precipitate formed in the course of the said neutralization up to half-way between monophosphate and diphosphate.

2,162,658
METHOD OF RECONSTRUCTING AND REINFORCING PLASTERED CEILINGS AND THE LIKE
Daniel H. Wieslander, Portland, Maine
Application May 24, 1938, Serial No. 209,740
11 Claims. (Cl. 72—123)



9. A method of re-constructing a damaged plastered ceiling, having cracks therein, consisting in applying to the surface of the plastering a layer of a cohesive plastic material, next, laying on said plastic material a binder element having openings therein, pressure being applied thereto forcing portions of said plastic material through the openings in said binder element, and finally covering the surface of the elements just applied to the plastering, a layer of the said cohesive plastic material.

2,162,659
FISHING LINE BOBBER
Lester T. Wilson, Willoughby, Ohio
Application February 16, 1938, Serial No. 190,685
4 Claims. (Cl. 43—49)

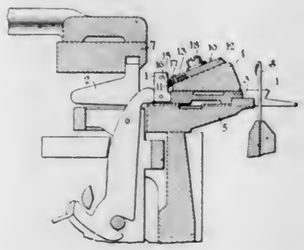


1. A fishing line bobber comprising a float having a hole therethrough, and a stem fitting through the hole, the stem having internal longitudinal grooves and openings into said grooves beyond opposite ends of the float, through which openings and grooves the line extends when the bobber is mounted thereon.

2,162,660
KNITTING MACHINE
Frank G. Weisbecker, Glenside, Pa., assignor to Hosiery Patents Incorporated, Lansdale, Pa., a corporatioin of Pennsylvania
Application December 7, 1937, Serial No. 178,570
9 Claims. (Cl. 66—110)

1. A method of rebuilding a metallic verge plate having a rearward longitudinal edge to provide a stop for sinkers when in use in a knitting machine, said method comprising removing portions

of said verge plate to provide the same with a longitudinal recess extending inwardly from the rearward edge and along the underside thereof, forming a strip with a width greater than that



of said recess and with a thickness corresponding approximately to the depth of said recess, and securing said trip in said recess with its rearward edge extending beyond said rearward plate edge.

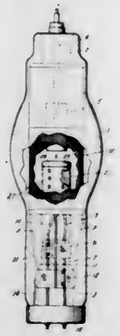
2,162,661

CATHODE FOR ELECTRON DISCHARGE DEVICES

Albert W. Hull, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 22, 1936, Serial No. 106,999

10 Claims. (Cl. 250—27.5)



1. An electron-emitting electrode for an electron discharge device comprising an elongate enclosure containing a heater, longitudinal vanes secured to said enclosure forming side and end openings, and means including a closure for the end openings for preventing electrons from leaving the ends of said vanes whereby electrons are permitted to leave the electrode only through the side openings.

2,162,662

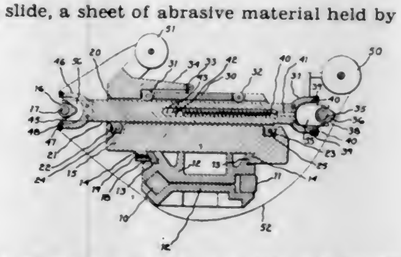
CAM-LAPPING MACHINE

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application April 13, 1938, Serial No. 201,755

3 Claims. (Cl. 51—64)

2. In apparatus of the class described, a slide, means to reciprocate the slide, a sling carried by the slide, a sheet of abrasive material held by the



sling whereby to lap a cam, and side guides to prevent side motion of the sling.

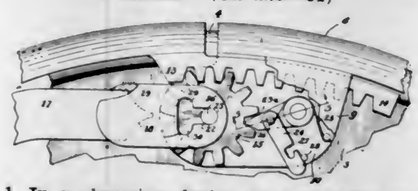
2,162,663

METALLIC RECEPTACLE AND CLOSURE THEREFOR

William Lockhart, Cleveland, Ohio, assignor to Cornell Securities Corporation, Cleveland, Ohio, a corporation of Delaware

Application July 9, 1934, Serial No. 734,286

7 Claims. (Cl. 220—61)



1. In a clamping device for a metallic receptacle having a bead around its open end and a cover having a flange fitting over the bead, a split channeled clamping ring to press the bead and cover flange together when the ring is contracted, and means for contracting the ring including a rack carried by one end of said ring, a pinion carried by the other end thereof and meshing with said rack, and a lever carried by said ring other end and slidable into and out of driving engagement with said pinion.

2,162,664

RECEPTACLE AND CLOSURE THEREFOR

William Lockhart, Cleveland, Ohio, assignor to Cornell Securities Corporation, Cleveland, Ohio, a corporation of Delaware

Application March 14, 1935, Serial No. 11,087

7 Claims. (Cl. 220—61)



1. A clamping device for removably securing a cover upon a barrel, said device comprising a split channeled ring, inwardly extending lugs adjacent the ends of the ring, and means for contracting and expanding the ring, said means including a link pivoted at one end to one of said lugs, an operating lever pivotally connected adjacent its end with the other end of said link, and a link pivotally connecting the other lug with another portion of said lever whereby said links will be caused to overlie one another and a portion of said lever when the ring is flexed to one of its extreme positions, but not when the ring is flexed in an opposite direction.

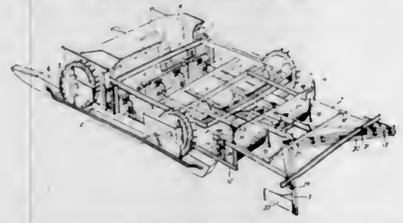
2,162,665

ROAD-BUILDING APPARATUS

Joseph H. Mosel, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application June 4, 1938, Serial No. 211,902

10 Claims. (Cl. 94—46)



1. A machine of the type described comprising a runner unit including a plurality of runners which extend longitudinally of the machine, a second unit independent of said runner unit and carried by transporting means, said units being connected together in such a manner as to permit free vertical movement of the second unit relative to the runner unit so that vertical movement of the second unit caused by the transporting means operating over a rough surface will not be transmitted to said runner unit, a screed unit, said screed unit being carried by a frame having its forward end pivotally connected to the runner unit so that vertical movement of the runner unit will have substantially no effect on the position of said screed unit, and means for supporting the rear end of said frame, said means including a member operating on the surface of the layer of material formed by the machine, said member being disposed in front of said screed unit.

2,162,666

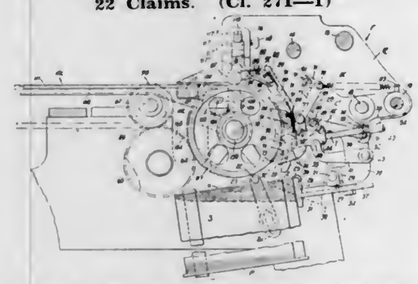
ENVELOPE TRANSFER AND FEEDING MECHANISM

Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York

Application July 6, 1936, Serial No. 89,083

Renewed November 10, 1938

22 Claims. (Cl. 271—1)



1. In a mechanism for transferring planiform articles such as envelope blanks, of the class comprising means for supporting a stack of said articles in a predetermined upright path, and means to elevate the stack to bring each article therein successively to the topmost position of the stack at a constant, predetermined level; means for transferring each such successively topmost article individually in an arcuate path to a higher level, and thence to a tangent extension of said arcuate path, there delivering the articles seriatim for fabrication or further treatment, said means including a feeding rotor, an oscillating lever movable intermediate the top of the stack and the rotor to press the separated end of a blank against the rotor, a separator means to effect said separation and present a free blank end in the path of said lever, and a series of rollers spaced around said rotor and adapted to cooperate therewith upon the blank to advance it in said arcuate path to said point of tangent delivery.

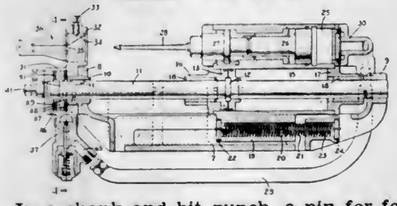
2,162,667

SHANK AND BIT PUNCH

Gustav C. Pearson, Denver, Colo., assignor to Gardner-Denver Company, Quincy, Ill., a corporation of Delaware

Application May 9, 1938, Serial No. 206,959

7 Claims. (Cl. 76—5)



1. In a shank and bit punch, a pin for forming the bore within the ends of a steel, a hammering mechanism supporting said pin and serving to drive the same in and out the steel, a cylinder integral with said mechanism, a bar forming a support for said mechanism and having a piston midway thereof receivable within the cylinder, passageways for the flow of motive fluid through the bar and communicating with the interior of the cylinder on each side of the piston, and a distributing valve directing motive fluid to either side of the piston for moving the mechanism in a selective direction upon the bar.

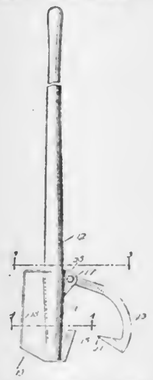
2,162,668

LOG LIFTING CANT HOOK

William Stocker, Chattanooga, Tenn., assignor to Dixie Logging Tool Co., Chattanooga, Tenn., a corporation of Tennessee

Application August 20, 1938, Serial No. 225,987

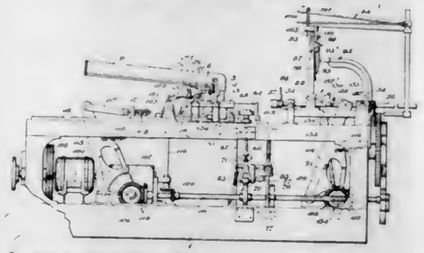
2 Claims. (Cl. 294—17)



1. A log turning and lifting device comprising a stock provided with a socket member at one end having a cant-hook pivoted thereto at one side, and a fulcrum integral with said solvent member disposed upon the opposite side to said cant-hook, said fulcrum consisting of a bent

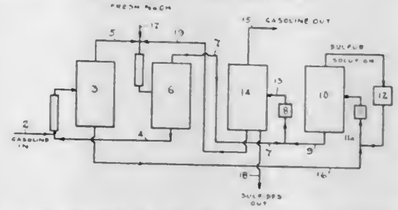
metal strap welded to the socket member at its ends and having its middle portion spaced therefrom, whereby said device may be used either as a peavy or log lifter without change.

2,162,669
MACHINE FOR MAKING GARMENT HANGERS OF WIRE
David S. Boyles, Rock Hill, S. C., assignor to National Wire Goods Manufacturing Company, Rock Hill, S. C., a partnership
Application May 13, 1938, Serial No. 207,834
5 Claims. (Cl. 140—71)



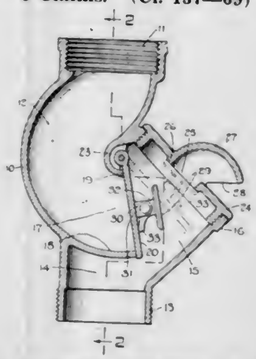
1. In a machine for making garment hangers of wire, wherein there are provided means for feeding successive wire blanks, means for bending successive blanks into form having parallel straight end bends, and means for twisting the end bends of successive hangers together comprising a rotary reciprocatory shaft and means for reciprocating the same; gear means comprising Geneva gears for rotating said shaft intermittently and progressively in the same direction in twisting the end bends of successive hangers, the concentric surface of the driver of said Geneva gears being provided with an eccentric cutaway portion adjacent one end of the clearance space for the projecting arms of the driven of said gears to thereby rotate said shaft slightly reversely intermediate successive forward rotations thereof.

2,162,670
REMOVING SULPHUR COMPOUNDS AND SWEETENING HYDROCARBON LIQUIDS
Robert E. Burk and Everett C. Hughes, Cleveland, Ohio, assignors to The Standard Oil Company (Ohio), Cleveland, Ohio, a corporation of Ohio
Application November 25, 1936, Serial No. 112,732
3 Claims. (Cl. 196—30)



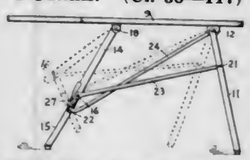
1. In a process of removing sulphur compounds and sweetening hydrocarbon distillates, comprising, circulating a aqueous caustic soda solution in a closed circuit, and at one portion of such circuit washing with the aqueous solution a light hydrocarbon distillate from which mercaptans are to be removed countercurrently in a plurality of stages, and simultaneously in said circuit contacting the mixture with lead catalytic surfaces, separating the light hydrocarbon distillate from the aqueous solution, circulating an organic solution of elemental sulphur in a closed circuit, contacting such solution of sulphur in a portion of its circuit with the circuit of the aqueous caustic soda solution after its separation from the hydrocarbon distillate, and simultaneously contacting the organic solution of sulphur and the aqueous caustic soda solution with lead catalytic surfaces and separating the aqueous caustic soda solution to further travel in its circuit.

2,162,671
AIR VALVE
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application February 13, 1937, Serial No. 125,611
6 Claims. (Cl. 137—69)



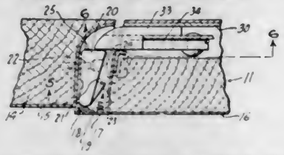
1. In an improved combined air valve with back pressure control, the combination of a body having a passage extending longitudinally therethrough, a valve seat formed in said passage intermediate the ends thereof, a pivotally mounted flap valve normally biased under gravity in engagement with its valve seat and rotatable on its pivot to permit normal flow of liquid through said passage, air inlet means leading into said passage, a valve seat associated with said air inlet means and a valve articulatively mounted on said flap valve for cooperating with the last-named valve seat to close said air inlet means under normal flow of liquid through said passage and to afford inflow of air to said passage under condition of sub-atmospheric pressure therein.

2,162,672
FOLDING TABLE LEG LATCH
Udo K. Johannsen, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York
Application October 27, 1936, Serial No. 107,779
4 Claims. (Cl. 38—117)



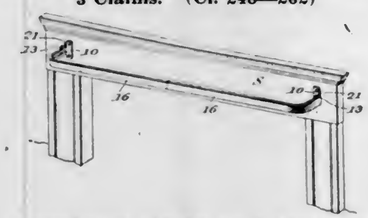
2. In a collapsible table adapted to unfold into erected position, the combination of a top board, a channeled front leg of which one end is pivoted to the board, an apertured rocker arm of which one end is pivotally attached to and adapted to be received within the channeled confines of the front leg when said leg assumes its erected position, guide link means pivotally interconnecting the board to the other end of the rocker arm, a rear leg structure having one end thereof pivoted to the board in spaced relation to the pivotal attachment of the front leg, supplemental pivot means disposed between the respective ends of said structure, brace link means extending from the supplemental pivot means and pivoted to the front leg, and a latch mechanism including a tiltable lever pivoted between its ends to the medial region of the front leg and having a releasable bolt associated with one lever end region that retractibly engages the aperture of said arm in erected leg position, the opposite lever end region being manipulative to release the locking bolt and which lever is exposed to view in erected table position.

2,162,673
DOOR LATCH
Philip C. Johnson and Carmen M. Stacey, Toledo, Ohio, assignors to Willys-Overland Motors, Inc., Toledo, Ohio, a corporation of Delaware
Application June 27, 1938, Serial No. 215,980
7 Claims. (Cl. 292—32)



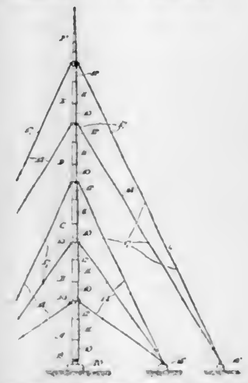
1. The combination of a vehicle door latch mechanism including a striker plate, said striker plate having a pair of inclined latch bolt retracting striker surfaces of different angularity; a latch structure including a support; a pair of latch bolts carried by said support, said latch bolts being independently slidable, one with respect to the other, one of said latch bolts being arranged to cooperate with one of the inclined surfaces upon said striker plate, the other of said bolts being adapted to cooperate with the other of said striker surfaces on said plate; abutment means on said striker plate adapted for cooperation with said secondary latch bolt to form safety catch means; and means for simultaneously retracting both of said bolts from projected position.

2,162,674
CURTAIN ROD
William C. Kenney, Cranston, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I., a corporation of Rhode Island
Application May 13, 1938, Serial No. 207,726
3 Claims. (Cl. 248—262)



3. A supporting bracket for a flanged rod having an aperture in its top flange adjacent one end thereof, comprising a base plate for attachment to a wall or like supporting surface, a locking projection extending at substantially right angles from one longitudinal edge of said plate, a prong extending at substantially right angles from said longitudinal edge of said plate below said locking projection, the upper edge of said prong being shaped to provide a reduced hook-like portion disposed substantially opposite to and spaced laterally from said locking projection and defining therewith and with said longitudinal edge of the base plate an open-mouth closed-bottom channel within which the adjacent open end of the rod is adapted to be inserted and locked by lodging the aperture in the top flange of the rod over said hook-like portion of the prong with the outer surface of said top flange engaged beneath the under surface of said locking projection, there being a horizontally disposed supporting shoulder on the inner edge of said prong between the ends of said channel on which a portion of the inner surface of the top flange of the rod rests when the rod end is fully engaged with the prong, and said locking projection, said hook-like portion of the prong, and said shoulder combinedly acting to restrain the rod against accidental dislodgment by movement laterally or vertically.

2,162,675
MAST FOR RADIO BROADCASTING
Archibald E. Lingo, Collingswood, N. J., assignor to John E. Lingo & Son, Inc., Camden, N. J., a corporation of New Jersey
Application October 8, 1937, Serial No. 167,891
5 Claims. (Cl. 189—26)



2. A radio mast comprising a plurality of superposed columns, each of said columns comprising a plurality of tubular sections joined to each other at their respective ends, the sections at each end of each column being smaller in diameter than the section at the middle thereof, the lower section of each column being rigidly joined to the upper section of the column immediately below the same, and means for individually staying the ends of each of the columns.

2,162,676
PREPARATION OF ACETYLENE GLYCOLS
Alexander Douglas Macallum, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1936, Serial No. 102,611
19 Claims. (Cl. 260—635)

1. The process which comprises heating an ethinyl carbinolate having the general formula $R_2C(OM)C{\equiv}CH$ (where R is a substituent selected from the group consisting of hydrogen,

alkyl and aryl and M is a metal selected from the group consisting of the alkali metals and alkaline earth metals) until said ethinyl carbinolate is converted in substantial amount into the corresponding acetylene glycolate.

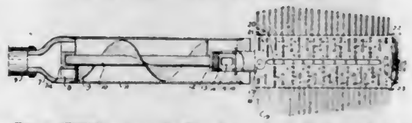
2,162,677

ROTARY EXPANDING FOUNTAIN BRUSH

Bennie S. Reynolds, Wichita Falls, Tex., assignor of one-third to Harry P. Smith and one-third to Tom A. Jones, both of Wichita Falls, Tex.

Application July 21, 1936, Serial No. 91,737

8 Claims. (Cl. 15—104.14)



1. In a fluid operated rotary brush, a rotatable hollow shaft, a brush carried by the hollow shaft and comprising outwardly and inwardly movable members pivotally connected at their inner ends to said shaft and slidably connected at their outer ends to each other, said members being movable outwardly under centrifugal force generated by the shaft in its rotations, and resilient means connected to the outer ends of the brush members for normally holding them in contracted condition, the hollow shaft having ports therein.

2,162,678

POLYVINYL ACETAL RESINS

Harold F. Robertson, Coraopolis, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application October 22, 1938, Serial No. 236,556

8 Claims. (Cl. 260—73)

1. A tough and strong artificial resin substantially identical with a resin resulting from the condensation of polyvinyl alcohol with sufficient butyraldehyde to combine with from about 54% to about 78% of the hydroxyl groups of said polyvinyl alcohol, the total extent of acetalization and the proportion of free hydroxyl groups in said resin being so correlated that said resin is substantially insoluble in triethylene glycol di(2-ethyl butyrate) plasticizer at ordinary temperatures but is compatible with substantial quantities of said plasticizer to form therewith flexible and elastic compositions which have at ordinary temperatures an elongation of at least about 200% and an ultimate strength above about 2,000 pounds per square inch.

2,162,679

POLYVINYL ACETAL RESINS

Harold F. Robertson, Coraopolis, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application April 1, 1939, Serial No. 265,515

6 Claims. (Cl. 260—73)

1. A tough and strong artificial resin substantially identical with a resin resulting from the condensation of polyvinyl alcohol with sufficient propionaldehyde to combine with from about 62% to about 88% of the hydroxyl groups of said polyvinyl alcohol, the total extent of acetalization and the proportion of free hydroxyl groups in said resin being so correlated that said resin is substantially insoluble in triethylene glycol di(2-ethyl butyrate) plasticizer at ordinary temperatures but is compatible with substantial quantities of said plasticizer to form therewith flexible and elastic compositions which have at ordinary temperatures an elongation of at least about 200% and an ultimate strength above about 2,000 pounds per square inch.

2,162,680

POLYVINYL ACETAL RESINS

Harold F. Robertson, Coraopolis, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application April 1, 1939, Serial No. 265,516

6 Claims. (Cl. 260—73)

1. A tough and strong artificial resin substantially identical with a resin resulting from the condensation of polyvinyl alcohol with sufficient valeraldehyde to combine with from about 39% to about 58% of the hydroxyl groups of said polyvinyl alcohol, the total extent of acetalization and the proportion of free hydroxyl groups in said resin being so correlated that said resin is substantially insoluble in triethylene glycol di(2-ethyl butyrate) plasticizer at ordinary temperatures but is compatible with substantial quantities of said plasticizer to form therewith flexible and elastic compositions which have at ordinary temperatures an elongation of at least about 200% and an ultimate strength above about 2,000 pounds per square inch.

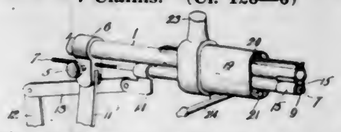
2,162,681

BRONCHOSCOPE

Oval T. Ryan, Kansas City, Kans., assignor of one-half to Henry Lange, Conception, Mo.

Application June 13, 1938, Serial No. 213,346

7 Claims. (Cl. 128—6)



1. In an instrument of the character described, the combination of a sheath, a telescope extending through said sheath, a tube slidably carried by the telescope, a forceps-operating rod secured at one end to the telescope and extending through said tube, and means interlocking the telescope and sheath against independent rotation but permitting relative longitudinal sliding movement thereof.

2,162,682

METHOD OF REFINING MINERAL OILS BY MEANS OF FLUORINATED ALIPHATIC HYDROCARBON COMPOUNDS

Ernst Terres, Berlin, Germany, and Josef Moos, New York, and Hans Ramser, Long Island City, N. Y., assignors to Edeleanu Gesellschaft, m. b. H., a corporation of Germany

No Drawing. Application October 25, 1937, Serial No. 170,974

13 Claims. (Cl. 196—13)

6. A method of refining a mineral oil comprising mixing the oil with a fluorinated aliphatic hydrocarbon of the methylene series containing a sufficient amount of fluorine to make it selective as between the paraffinic and non-paraffinic constituents of the oil and adjusting the temperature to produce a separation into two liquid oil phases respectively comprising relatively paraffinic and non-paraffinic constituents, and separating the phases from each other.

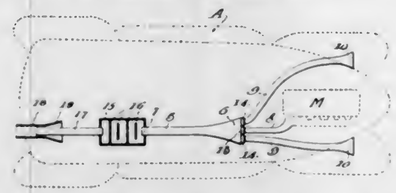
2,162,683

MOTOR VEHICLE MUFFLER

James Tobin, Youngstown, Ohio, assignor to Katherine Tobin, Youngstown, Ohio

Application March 15, 1938, Serial No. 196,062

4 Claims. (Cl. 181—51)



4. In a muffler for the exhaust gases from a motor-driven vehicle, a tube extending longitudinally of the vehicle and having a forwardly flared front end and a closure therefor, an exhaust pipe from the motor extending centrally through said closure into said tube, said exhaust pipe extending rearwardly beyond said flared portion of said tube and having an open rear end, two air-conducting pipes in front of said tube at opposite sides of said exhaust pipe and opening through said closure to force air into said flared end of said tube for rearward passage around said exhaust pipe, said air-conducting pipes having air inlet funnels at their front ends disposed at the front end of the vehicle, and forwardly closable check valves for said air-conducting pipes.

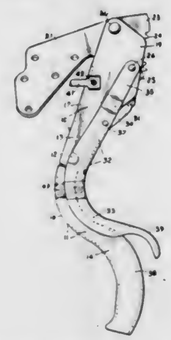
2,162,684

AUTOMOTIVE BRAKE LEVER

Floyd D. Wenn, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York

Application March 26, 1938, Serial No. 198,184

7 Claims. (Cl. 74—530)



1. A compactly assembled automotive emergency brake lever comprising web interconnected sheet metal side flanges of which one end is provided with handle means and the other end is forked in spaced biplanar relation, a stationary rack plate having a series of gear teeth thereon concentrically arranged about an axis with certain of such teeth disposed to extend between the fork planes, a main fulcrum entered through the flange forks and the rack plate in substantial coincidence with said axis, a unitary step-up plate pivotally nested between said planes and provided with identical complementary flat side faces whose perimetric contours are each shaped in registry to embrace reversely lobated sector components respectively having a circular plate edge region located at opposed different radial distances from the step-up plate pivot, the outer edge region having ratchet teeth thereon that respectively terminate flush with the fork planes and the inner edge region having gear teeth thereon that also terminate flush with the same planes and mesh with said rack teeth whereby to multiply the linear travel of the ratchet teeth with respect to that of the gear teeth when said lever is swung about the main fulcrum, and manipulative pawl means arranged to successively engage certain of the ratchet teeth.

2,162,685

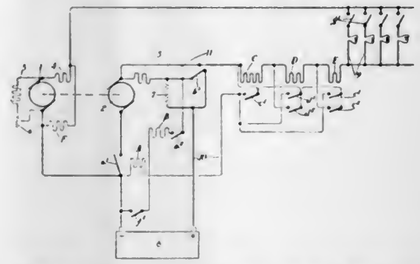
ELECTRIC GENERATING PLANT

Martin Westbury Wilson, Dursley, England, assignor to R. A. Lister & Company Limited, Dursley, England

Application December 30, 1938, Serial No. 248,600

In Great Britain January 12, 1938

5 Claims. (Cl. 290—30)



1. Electric generating plant, of the kind where the prime-mover is an internal-combustion engine which is automatically started up by one part of a two-part generator as soon as a predetermined load is imposed on the battery, including a two-part generator having a "running" compound field winding and, in addition, a "starting" field winding, a starting contactor, and a load-responsive relay means which on energization effects the energization of the starting contactor, the latter being arranged so that one of the armature windings and the "starting" field winding will be thereby connected across the battery for starting purposes, after which both the armature windings coact to supply current at a predetermined voltage to the load circuit in the known manner.

2,162,686

METHOD FOR THE PREPARATION OF THIONOL

Floyd De Eds, San Francisco, Calif., Clyde W. Eddy, Pullman, Wash., and John O. Thomas, San Francisco, Calif., assignors to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office

No Drawing. Application January 28, 1939, Serial No. 253,450

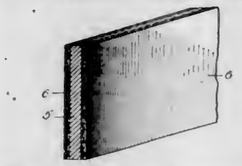
1 Claim. (Cl. 260—243)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A method for the preparation of thionol from phenothiazine, which comprises adding substantially 80 cc. of concentrated hydrochloric acid to substantially 1000 cc. of distilled water, and thence adding substantially 4 cc. of 30% hydrogen peroxide, the while subjecting the mixture

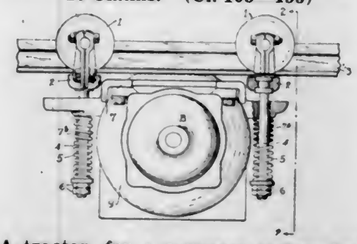
to agitation and a temperature of substantially 80° C., thence adding at a constant rate substantially 2 g. of phenothiazine dissolved in 200 cc. of alcohol, the while subjecting the mixture to a constant temperature for not more than fifteen minutes, thence subjecting the mixture to the action of a cooling medium, thence extracting the chloroform, thereby recovering the thionol present, thence removing the chloroform therefrom, and thence drying and pulverizing the residue.

2,162,687
CONSTRUCTION MATERIAL
Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio
Application January 27, 1927, Serial No. 164,001
4 Claims. (Cl. 94—18)



1. Construction material comprising built-up preformed layers, one of said layers comprising fibrated bituminous material having a rubber ingredient therein in such proportions as to give the bituminous material a relatively soft, pliable and resilient characteristic.

2,162,688
CONVEYER SYSTEM DRIVE
James Paul Lawrence, Cleveland, Ohio, assignor to The American MonoRail Company, Cleveland, Ohio, a corporation of Ohio
Application December 31, 1937, Serial No. 182,771
10 Claims. (Cl. 105—153)

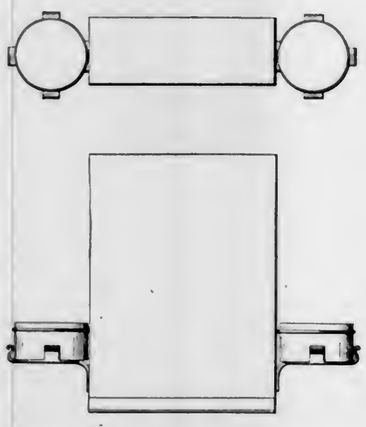


1. A tractor, for a conveyer system including a rail, comprising supporting wheels to run on the rail, a drive wheel having a pneumatic tire of greater width than said rail and engageable with the under surface of said rail for the full width of said surface and for a substantial distance lengthwise thereof, resilient means, including air under pressure in the tire and compression springs between the supporting wheels and the drive wheel, for shifting the axis of the drive wheel toward and away from the supporting wheels to maintain a substantially constant tractive effort of the tire on the rail under varying track conditions, and means to drive said drive wheel.

DESIGNS

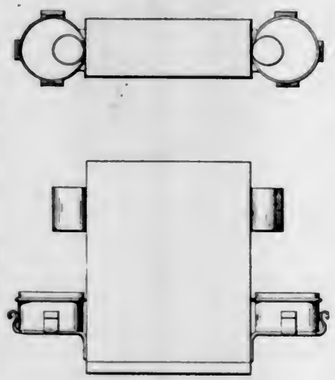
JUNE 13, 1939

115,189
DESIGN FOR A PAPER TOWEL DISPENSING CABINET OR SIMILAR ARTICLE
John E. Ahlborg, Denver, Colo.
Application October 3, 1938, Serial No. 80,178
Term of patent 7 years



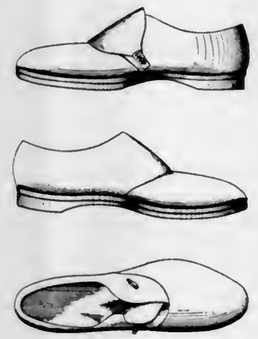
The ornamental design for a paper towel dispensing cabinet or similar article, as shown.

115,190
DESIGN FOR A PAPER TOWEL DISPENSING CABINET OR SIMILAR ARTICLE
John E. Ahlborg, Denver, Colo.
Application January 20, 1939, Serial No. 82,481
Term of patent 7 years



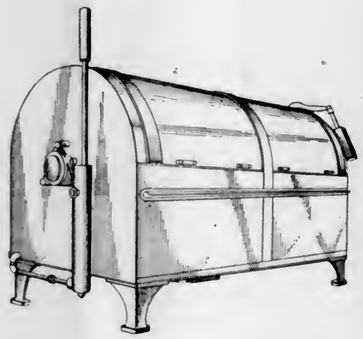
The ornamental design for a paper towel dispensing cabinet, or similar article, as shown.

115,191
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Linus W. Bagg, Montclair, N. J.
Application February 27, 1939, Serial No. 83,232
Term of patent 14 years



The ornamental design for a shoe or similar article, as shown.

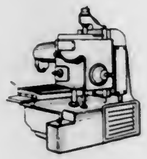
115,192
DESIGN FOR A LAUNDRY WASHER
Harold L. Belding, Northampton, Mass., assignor to Henrici Laundry Machinery Company, Boston, Mass., a corporation of Massachusetts
Application August 19, 1938, Serial No. 79,441
Term of patent 14 years



The ornamental design for a laundry washer, substantially as shown and described.

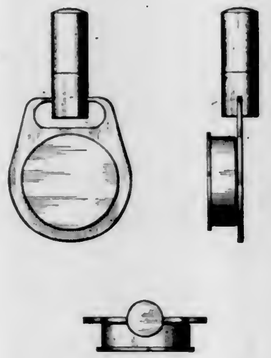
115,193
DESIGN FOR A MACHINE TOOL UNIT
Louis H. Blood, Covington, Ky., and Lester F. Nenninger, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application October 22, 1938, Serial No. 80,627
Term of patent 14 years





The ornamental design for a machine tool unit as shown.

115,194
DESIGN FOR A COMBINATION VANITY AND LIPSTICK CASE
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware
Application April 3, 1939, Serial No. 84,015
Term of patent 3½ years



The design for a combination vanity and lipstick case, as shown.

115,195
DESIGN FOR A CLOCK CASE
Leo I. Bruce, Framingham, Mass., assignor to Warren Telechron Company, a corporaton of Maine
Application April 20, 1939, Serial No. 84,439
Term of patent 14 years





The ornamental design for a clock case, as shown.

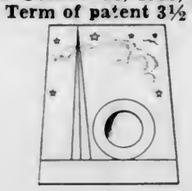
115,196
DESIGN FOR A CLOCK CASE
Leo I. Bruce, Framingham, Mass., assignor to Warren Telechron Company, a corporation of Maine
Application April 20, 1939, Serial No. 84,441
Term of patent 14 years

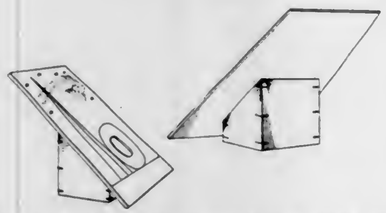




The ornamental design for a clock case, as shown.

115,197
DESIGN FOR A GOLF GAME DEVICE OR SIMILAR ARTICLE
Frank H. Cavignac, New York, N. Y.
Application October 18, 1938, Serial No. 80,524
Term of patent 3½ years

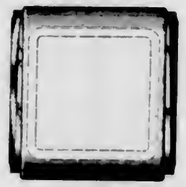




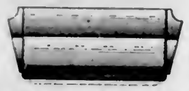
The ornamental design for a golf game device or similar article, as shown.

115,198
DESIGN FOR A CLOCK CASE
Ostilio Ciccarelli, Bristol, Conn., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application March 22, 1939, Serial No. 83,777
Term of patent 3½ years



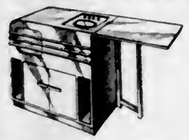






The ornamental design for a clock case, substantially as shown and described.

115,199
DESIGN FOR A COMBINED RADIO CABINET AND STAND
David Dillon, New York, N. Y.
Application February 18, 1938, Serial No. 75,242
Term of patent 3½ years

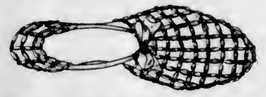




The ornamental design for a combined radio cabinet and stand, substantially as shown.

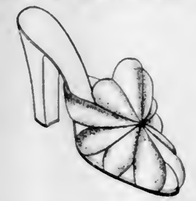
115,200
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Silvia Dorée, New York, N. Y.
Application May 6, 1939, Serial No. 84,841
Term of patent 3½ years





The ornamental design for a shoe or similar article, substantially as shown.

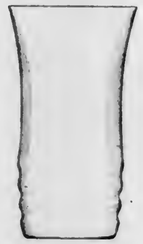
115,201
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Silvia Dorée, New York, N. Y.
Application May 6, 1939, Serial No. 84,842
Term of patent 3½ years





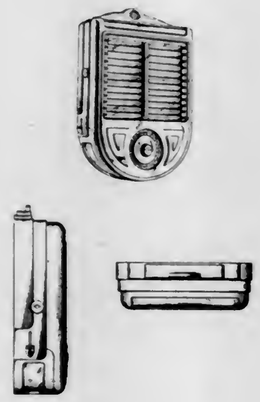
The ornamental design for a shoe or similar article, substantially as shown.

115,202
DESIGN FOR A TUMBLER
Edwin W. Fuerst, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 21, 1938, Serial No. 81,270
Term of patent 7 years



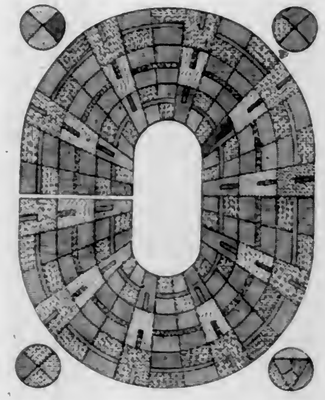
The ornamental design for a tumbler, substantially as shown and described.

115,203
DESIGN FOR AN ELECTRIC REMOTE CONTROL CASING OR THE LIKE
Paul M. Fuller, Chicago, Ill., assignor to The Rudolph Wurlitzer Company, a corporation of Ohio
Application May 10, 1939, Serial No. 84,904
Term of patent 7 years



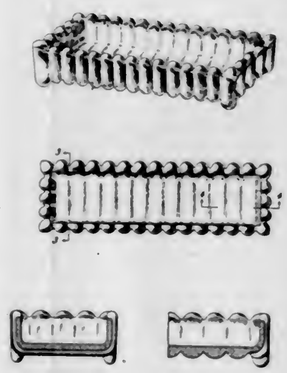
The ornamental design for an electric remote control casing or the like, substantially as shown and described.

115,204
DESIGN FOR A GAME BOARD
Fred Graef, Cincinnati, Ohio
Application February 7, 1939, Serial No. 82,844
Term of patent 7 years



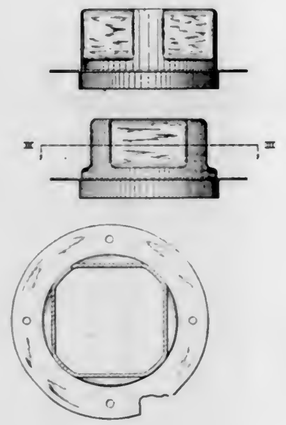
The ornamental design for a game board, as shown and described.

115,205
DESIGN FOR A GLASS CELERY TRAY OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application April 1, 1939, Serial No. 83,983
Term of patent 14 years



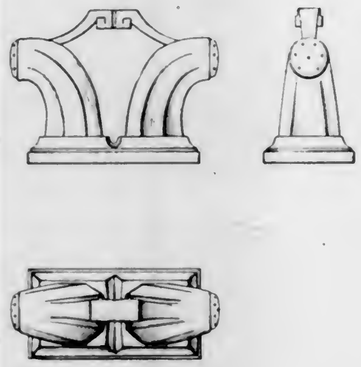
The ornamental design for a glass celery tray or article of similar nature, substantially as shown.

115,206
DESIGN FOR AN OUTLET BOX
Ray Z. Huff, Jackson, Mich.
Application October 12, 1938, Serial No. 80,411
Term of patent 14 years



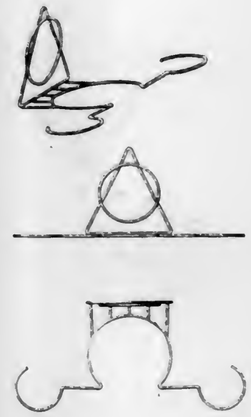
The ornamental design for an outlet box, as shown.

115,207
DESIGN FOR A COMBINED SALT AND PEPPER HOLDER
Ansgarius H. Johnson, Chicago, Ill.
Application February 27, 1939, Serial No. 83,222
Term of patent 3½ years



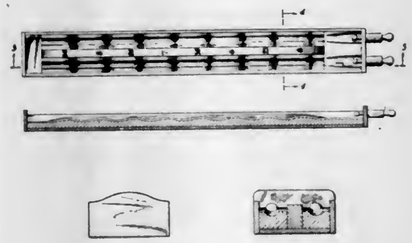
The ornamental design for a combined salt and pepper holder, substantially as shown.

115,208
DESIGN FOR A WALL BRACKET FOR FLOWERPOTS
Charles Kiss, Hamden, Conn.
Application October 31, 1938, Serial No. 80,790
Term of patent 7 years



The ornamental design for a wall bracket for flowerpots, substantially as shown and described.

115,209
DESIGN FOR A GAME DEVICE
Maurice M. Levy, New York, N. Y.
Application October 29, 1938, Serial No. 80,760
Term of patent 3½ years



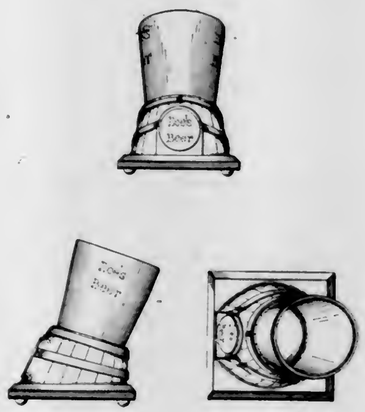
The ornamental design for a game device, as shown and described.

115,210
DESIGN FOR A HANDKERCHIEF DISPLAY UNIT
Sylvia Loeb, New York, N. Y.
Application March 29, 1939, Serial No. 83,898
Term of patent 3½ years



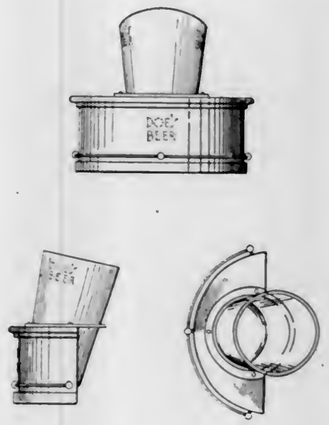
The ornamental design for a handkerchief display unit, substantially as shown and described.

115,211
DESIGN FOR A RECEPTACLE FOR BEER SCRAPERS OR THE LIKE
Clifford A. McBride, East Providence, R. I.
Application February 9, 1939, Serial No. 82,877
Term of patent 14 years



The ornamental design for a receptacle for beer scrapers or the like, substantially as shown.

115,212
DESIGN FOR A COMBINATION RECEPTACLE FOR BEER SCRAPERS OR THE LIKE AND SUPPORT
Clifford A. McBride, East Providence, R. I.
Application February 13, 1939, Serial No. 82,969
Term of patent 14 years



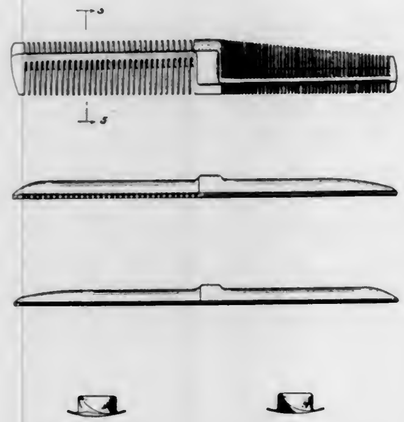
The ornamental design for a combination receptacle for beer scrapers or the like and support, substantially as shown and described.

115,213
DESIGN FOR A TELEPHONE LAMP OR SIMILAR ARTICLE
Arthur T. McShane and Harry E. Tyler, Columbus, Ohio
Application February 7, 1938, Serial No. 74,922
Term of patent 3½ years



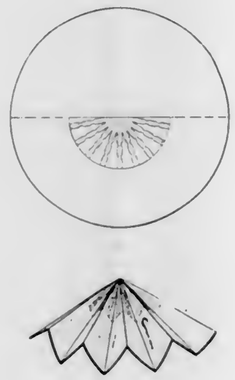
The ornamental design for a telephone lamp or similar article, as shown.

115,214
DESIGN FOR A COMB
Charlie A. Moore, Nashville, Tenn., assignor of one-half to James A. Foster, Nashville, Tenn.
Application April 19, 1939, Serial No. 84,394
Term of patent 7 years



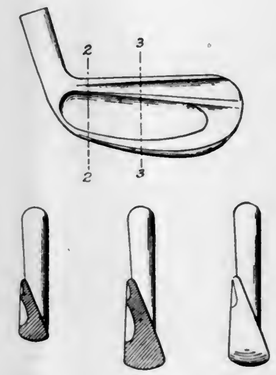
The ornamental design for a comb, as shown.

115,215
DESIGN FOR A PAPER NAPKIN
Soichi Nakashima, San Francisco, Calif.
Application November 1, 1937, Serial No. 72,548
Term of patent 3½ years



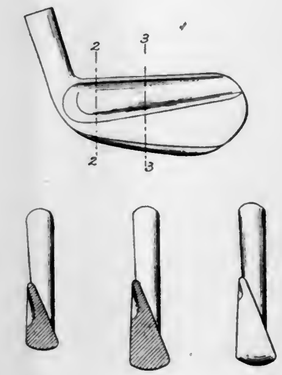
The ornamental design for a paper napkin, substantially as shown and described.

115,216
DESIGN FOR A GOLF CLUB HEAD
Howard P. G. Newsome, Memphis, Tenn.
Application April 4, 1939, Serial No. 84,040
Term of patent 14 years



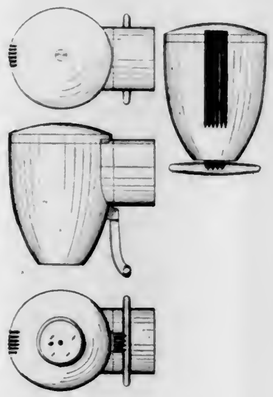
The ornamental design for a golf club head, as shown.

115,217
DESIGN FOR A GOLF CLUB HEAD
Howard P. G. Newsome, Memphis, Tenn.
Application April 4, 1939, Serial No. 84,041
Term of patent 14 years



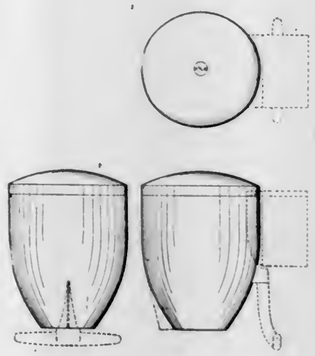
The ornamental design for a golf club head, as shown.

115,218
DESIGN FOR A DISPENSER FOR POWDERED SOAP OR THE LIKE
George H. Packwood, Jr., St. Louis, Mo.
Application October 28, 1938, Serial No. 80,730
Term of patent 14 years



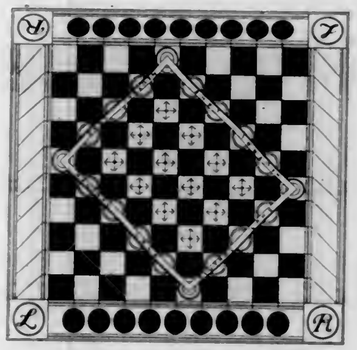
The ornamental design for a dispenser for powdered soap or the like, as shown and described.

115,219
DESIGN FOR A DISPENSER FOR POWDERED SOAP OR THE LIKE
George H. Packwood, Jr., St. Louis, Mo.
Application March 9, 1939, Serial No. 83,465
Term of patent 14 years



The ornamental design for a dispenser for powdered soap or the like, as shown and described.

115,220
DESIGN FOR A GAME BOARD
Elmer D. Rose, Bradford, Pa.
Application March 31, 1939, Serial No. 83,949
Term of patent 14 years



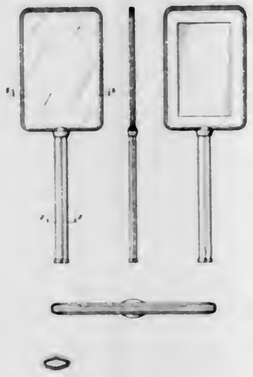
The ornamental design for a game board, as shown and described.

115,221
DESIGN FOR A DOOR KNOCKER
George J. Stevens, Cleveland, Ohio
Application January 26, 1939, Serial No. 82,622
Term of patent 3½ years



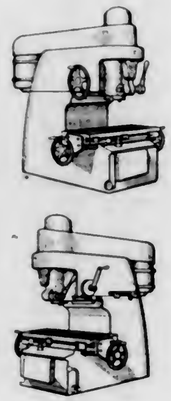
The ornamental design for a door knocker, as shown.

115,222
DESIGN FOR A HAND MIRROR
Max H. Storch, Bell Harbor, Long Island, N. Y.
Application April 10, 1939, Serial No. 84,177
Term of patent 3½ years



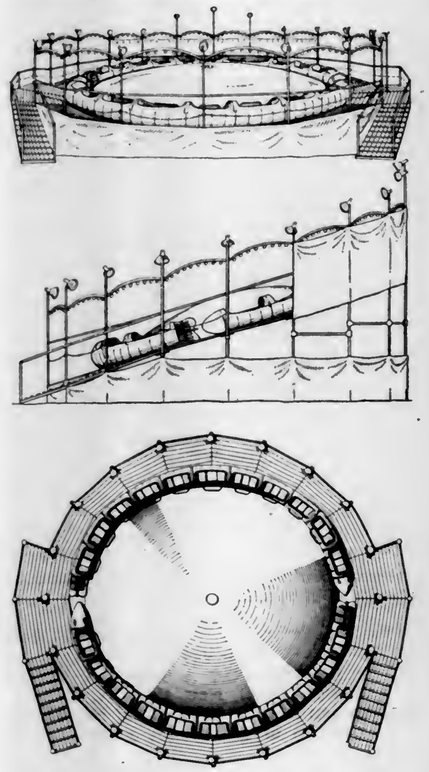
The ornamental design for a hand mirror, substantially as shown.

115,223
DESIGN FOR A MACHINE TOOL UNIT
Edgar D. Vancil and Emery C. Raehrs, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application April 10, 1939, Serial No. 84,166
Term of patent 14 years



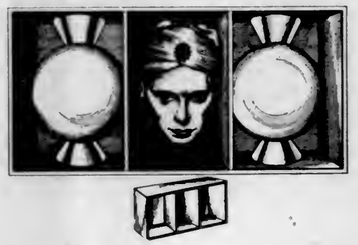
The ornamental design for a machine tool unit as shown.

115,224
DESIGN FOR AN AMUSEMENT DEVICE
William J. Wendler, North Tonawanda, N. Y., assignor to Allan Herschell Company, Incorporated, Tonawanda, N. Y.
Application October 5, 1938, Serial No. 80,281
Term of patent 3½ years



The ornamental design for an amusement device, as shown.

115,225
DESIGN FOR AN ASTROLOGICAL AND MYSTIC ROBOT
Joseph P. Wilson, Atlanta, Ga.
Application October 21, 1938, Serial No. 80,589
Term of patent 14 years



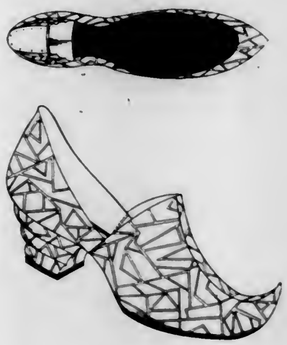
The ornamental design for an astrological and mystic robot, substantially as shown.

115,226
DESIGN FOR A COFFEE MAKER
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, a corporation of Connecticut
Application August 8, 1938, Serial No. 79,172
Term of patent 14 years



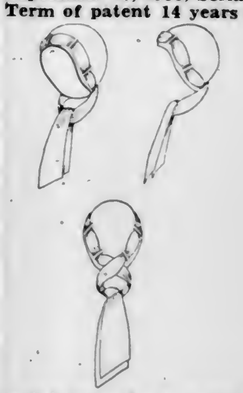
The ornamental design for a coffee maker, substantially as shown and described.

115,227
DESIGN FOR A SLIPPER
Evelyn Ziniti, New York, N. Y.
Application May 3, 1939, Serial No. 84,757
Term of patent 3½ years



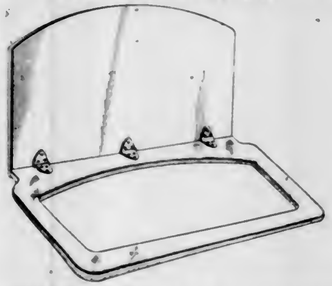
The ornamental design for a slipper, substantially as shown.

115,228
DESIGN FOR A COMBINED HAT AND SCARF
Alfred Cohn, Milwaukee, Wis.
Application September 10, 1938, Serial No. 79,830
Term of patent 14 years



The ornamental design for a combined hat and scarf, as shown.

115,229
DESIGN FOR A PILLOW SUPPORT FOR A BED OR SIMILAR ARTICLE
Harry E. Edelson, New York, N. Y.
Application February 1, 1939, Serial No. 82,699
Term of patent 7 years



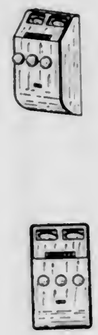
The ornamental design for a pillow support for a bed or similar article, as shown and described.

115,230
DESIGN FOR A HAMPER OR SIMILAR ARTICLE
Harold Gleitsman, New York, N. Y.
Application February 4, 1938, Serial No. 74,867
Term of patent 14 years



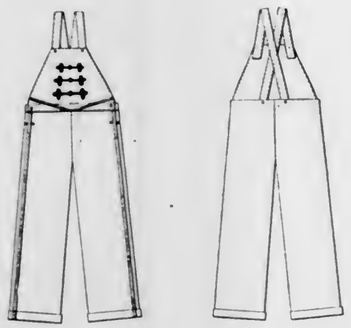
The ornamental design for a hamper or similar article, as shown and described.

115,231
DESIGN FOR A CONTROL PANEL BOARD AND HOUSING FOR DENTAL X-RAY MACHINES
Edward B. Graves, South Euclid, and Robert J. Stava, East Cleveland, Ohio, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 20, 1939, Serial No. 83,110
Term of patent 7 years



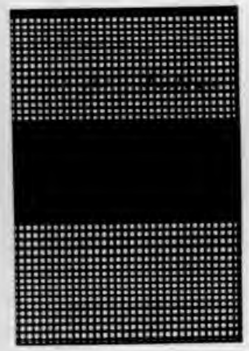
The ornamental design for a control panel board and housing for dental X-ray machines, as shown.

115,232
DESIGN FOR A BAND UNIFORM OR SIMILAR ARTICLE
Carl T. Habegger, Berne, Ind.
Application July 5, 1938, Serial No. 78,285
Term of patent 14 years



The ornamental design for a band uniform or similar article, as shown.

115,233
DESIGN FOR AN OPEN MESH BAG
John E. Millett, Grand Rapids, Mich., assignor to Sackner Bag Company, Grand Rapids, Mich.
Application August 2, 1937, Serial No. 70,773
Term of patent 14 years



The ornamental design for an open mesh bag, substantially as shown and described.

115,234
DESIGN FOR A HAT OR SIMILAR ARTICLE
Maurine Nielson, New York, N. Y.
Application May 2, 1939, Serial No. 84,729
Term of patent 3½ years



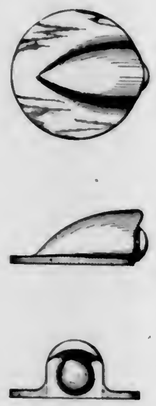
The ornamental design for a hat or similar article, substantially as shown.

115,235
DESIGN FOR A HANDWHEEL
Charles A. Olson, Geneva, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 26, 1938, Serial No. 80,686
Term of patent 14 years



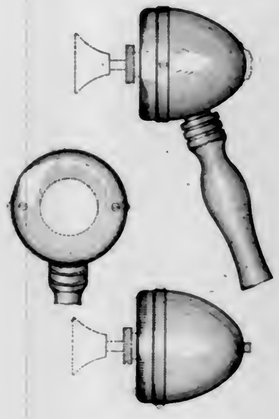
The ornamental design for a handwheel, substantially as shown.

115,236
DESIGN FOR A LANE MARKER
Raymond H. Osbrink, Los Angeles, Calif.
Application August 12, 1938, Serial No. 79,297
Term of patent 7 years



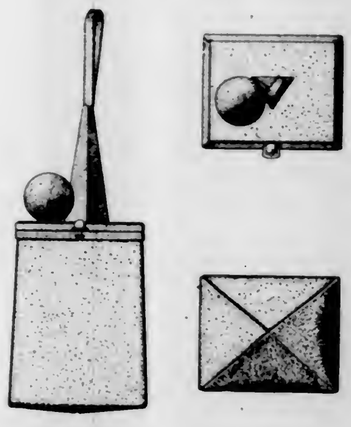
The ornamental design for a lane marker, as shown

115,237
DESIGN FOR A VIBRATOR
Fernando L. Renga, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 30, 1939, Serial No. 83,930
Term of patent 7 years



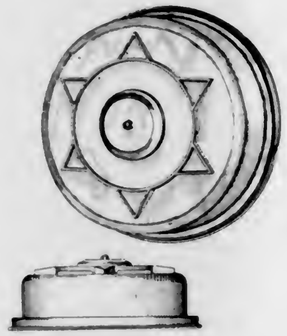
The ornamental design for a vibrator, substantially as shown and described.

115,238
DESIGN FOR A HANDBAG
Jacob Scala, Brooklyn, N. Y.
Application April 5, 1939, Serial No. 84,055
Term of patent 3½ years



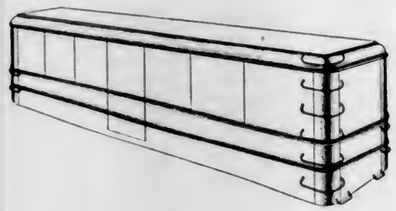
The ornamental design for a handbag, as shown.

115,239
DESIGN FOR A BELL HOUSING FOR ELECTRICALLY OPERATED ALARMS
Gustaf Schwartz, Chicago, Ill., assignor to Certified Burglar Alarm Systems, Inc., Chicago, Ill., a corporation of Illinois
Application February 12, 1938, Serial No. 75,100
Term of patent 14 years



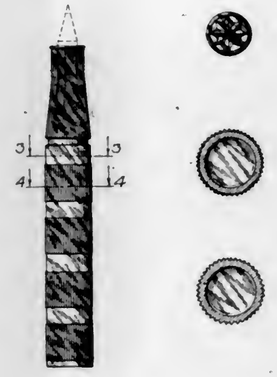
The ornamental design for a bell housing for electrically operated alarms, substantially as shown and described.

115,240
DESIGN FOR A FREIGHT CAR BODY
George A. Steuber, Penfield, N. Y., assignor to Dispatch Shops, Inc., East Rochester, N. Y., a corporation of New York
Application January 24, 1939, Serial No. 82,585
Term of patent 14 years



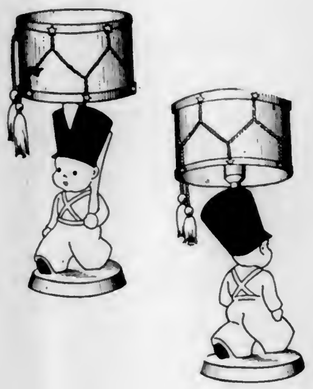
The ornamental design for a freight car body, substantially as shown and described.

115,241
DESIGN FOR A CANDY CONTAINER
Turney H. Stough, Jeannette, Pa.
Application March 30, 1939, Serial No. 83,924
Term of patent 3½ years



The ornamental design for a candy container, as shown.

115,242
DESIGN FOR A TABLE LAMP OR SIMILAR ARTICLE
Harry Taylor, New York, N. Y.
Application March 1, 1939, Serial No. 83,267
Term of patent 7 years



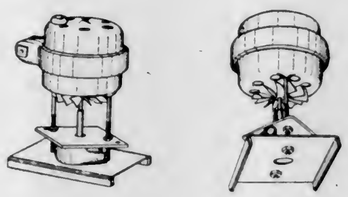
The ornamental design for a table lamp or similar article, substantially as shown.

115,243
DESIGN FOR AN ATOMIZER
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application March 11, 1939, Serial No. 83,518
Term of patent 7 years



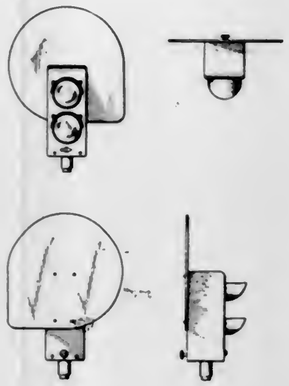
The ornamental design for an atomizer, substantially as shown and described.

115,244
DESIGN FOR AN ELECTRIC WATER PUMP UNIT
Milford L. Williams, Moline, Ill.
Application February 7, 1939, Serial No. 82,824
Term of patent 7 years



The ornamental design for an electric water pump unit, as shown.

115,245
DESIGN FOR A BATTERY TESTER
Egmont Arens, New York, N. Y., assignor to Atlas Supply Company, Newark, N. J., a corporation of Delaware
Application November 25, 1938, Serial No. 81,352
Term of patent 7 years



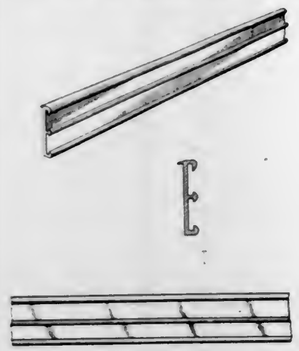
The ornamental design for a battery tester, as shown.

115,246
DESIGN FOR A PLASTIC SHEET OR SIMILAR ARTICLE
Robert T. Billings, Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 1, 1939, Serial No. 83,966
Term of patent 7 years



The ornamental design for a plastic sheet or similar article, substantially as shown and described.

115,247
DESIGN FOR A MOLDING STRIP
William L. Bonnell, Columbus, Ohio
Application March 16, 1938, Serial No. 75,856
Term of patent 14 years

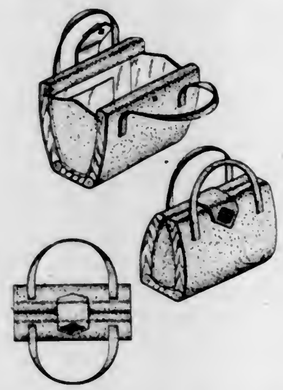


The ornamental design for a molding strip, as shown.

115,248
DESIGN FOR A KNIFE POUCH
Edwin Marion Cook, Sacramento, Calif.
Application February 14, 1939, Serial No. 82,971
Term of patent 14 years

The ornamental design for a knife pouch, substantially as shown.

115,249
DESIGN FOR A HANDBAG
Rene Courtine, New York, N. Y.
Application April 6, 1939, Serial No. 84,080
Term of patent 3½ years



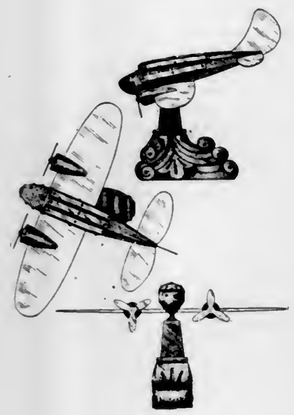
The ornamental design for a handbag, as shown.

115,250
DESIGN FOR A FINGER RING
John L. Crumpton, Durham, N. C.
Application April 3, 1939, Serial No. 84,003
Term of patent 7 years



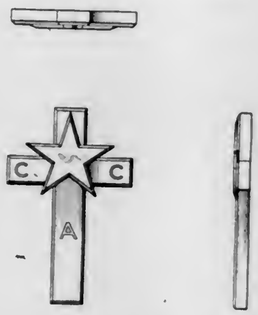
The ornamental design for a finger ring, as shown.

115,251
DESIGN FOR A DESK ORNAMENT OR THE LIKE
Irving Defren, Brooklyn, N. Y.
Application April 18, 1939, Serial No. 84,362
Term of patent 7 years



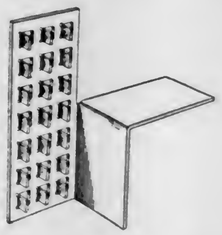
The ornamental design for a desk ornament or the like, substantially as shown.

115,252
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Albert Kemsley, Detroit, Mich.
Application September 22, 1938, Serial No. 80,039
Term of patent 14 years



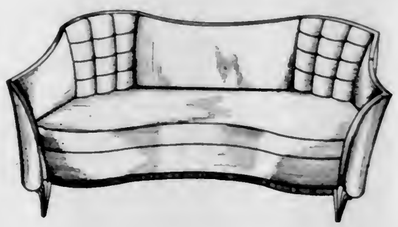
The ornamental design for a badge or similar article, substantially as shown.

115,253
DESIGN FOR A WALL TIE OR THE LIKE
Fred B. Parks, Grand Rapids, Mich.
Application June 6, 1938, Serial No. 77,625
Term of patent 3½ years



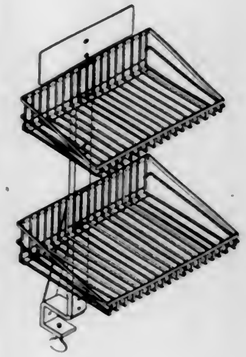
The ornamental design for a wall tie or the like, as shown.

115,254
DESIGN FOR A SOFA OR SIMILAR ARTICLE
Charles Stoll, New York, N. Y.
Application March 20, 1939, Serial No. 83,692
Term of patent 3½ years



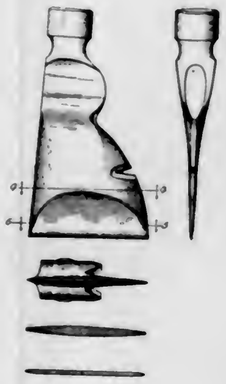
The ornamental design for a sofa or similar article, substantially as shown.

115,255
DESIGN FOR A DISPLAY STAND
Cooper E. Taylor, Charlotte, N. C.
Application September 15, 1938, Serial No. 79,921
Term of patent 7 years



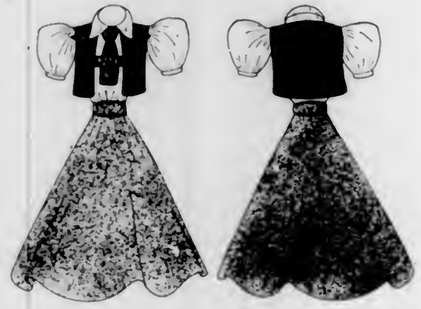
The ornamental design for a display stand, as shown.

115,256
DESIGN FOR A HATCHET HEAD
Sanford S. Vaughan, Oak Park, Ill., assignor to Vaughan & Bushnell Mfg. Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1939, Serial No. 84,564
Term of patent 14 years



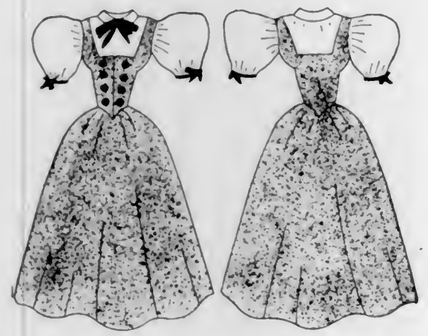
The ornamental design for a hatchet head, substantially as shown.

115,257
DESIGN FOR AN ENSEMBLE DRESS OR SIMILAR ARTICLE
M. Stanley Brown, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland, an association of Switzerland
Application May 2, 1939, Serial No. 84,717
Term of patent 3½ years



The ornamental design for an ensemble dress or similar article, as shown.

115,258
DESIGN FOR A DRESS OR SIMILAR ARTICLE
M. Stanley Brown, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland, an association of Switzerland
Application May 2, 1939, Serial No. 84,718
Term of patent 3½ years



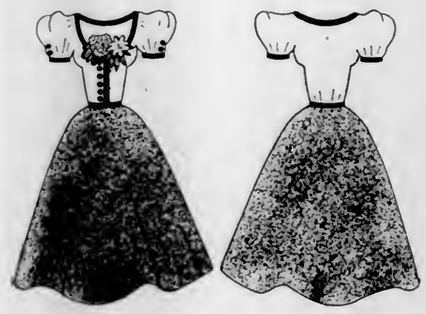
The ornamental design for a dress or similar article, as shown.

115,259
DESIGN FOR AN ENSEMBLE DRESS OR SIMILAR ARTICLE
M. Stanley Brown, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland, an association of Switzerland
Application May 2, 1939, Serial No. 84,719
Term of patent 3½ years



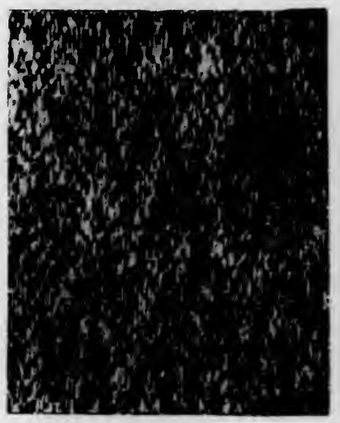
The ornamental design for an ensemble dress or similar article, as shown and described.

115,260
DESIGN FOR A DRESS OR SIMILAR ARTICLE
M. Stanley Brown, Pelham, N. Y., assignor to Kaufmännisches Directorium, St. Gallen, Switzerland, an association of Switzerland
Application May 2, 1939, Serial No. 84,720
Term of patent 3½ years



The ornamental design for a dress or similar article, as shown.

115,261
DESIGN FOR A TEXTILE FABRIC
Louis Bry, New York, N. Y.
Application April 20, 1939, Serial No. 84,421
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

115,262
DESIGN FOR A TEXTILE FABRIC
Louis Bry, New York, N. Y.
Application April 26, 1939, Serial No. 84,570
Term of patent 14 years



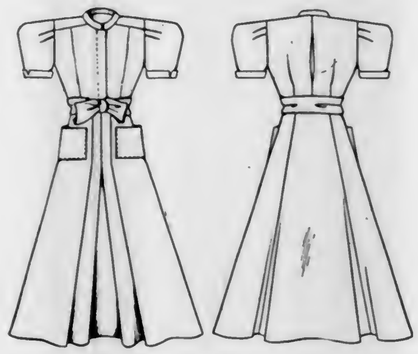
The ornamental design for a textile fabric, substantially as shown.

115,263
DESIGN FOR A DRESS ENSEMBLE
Tora Coleman, New York, N. Y.
Application May 6, 1939, Serial No. 84,824
Term of patent 3½ years



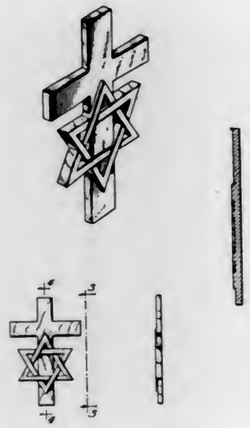
The ornamental design for a dress ensemble, substantially as shown and described.

115,264
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,733
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,265
DESIGN FOR A BADGE OR SIMILAR ARTICLE
William M. Itton, Chicago, Ill.
Application March 11, 1939, Serial No. 83,517
Term of patent 7 years



The ornamental design for a badge or similar article, as shown.

115,266
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y.
Application April 4, 1939, Serial No. 84,027
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

115,267
DESIGN FOR A DRESS
Henry Meisler, New York, N. Y.
Application May 8, 1939, Serial No. 84,858
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,268
DESIGN FOR A MIRROR HEAD FOR WASHFOUNTAINS
Howard A. Mullett, Milwaukee, Wis., assignor to Bradley Washfountain Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 17, 1938, Serial No. 80,498
Term of patent 7 years



The ornamental design for a mirror head for washfountains, as shown.

115,269
DESIGN FOR A DRESS
Daniel Novick, Chicago, Ill.
Application February 28, 1938, Serial No. 75,444
Term of patent 7 years



The ornamental design for a dress, as shown and described.

115,270
DESIGN FOR A DRESS
Jules Roth, New York, N. Y.
Application May 13, 1939, Serial No. 84,959
Term of patent 3½ years



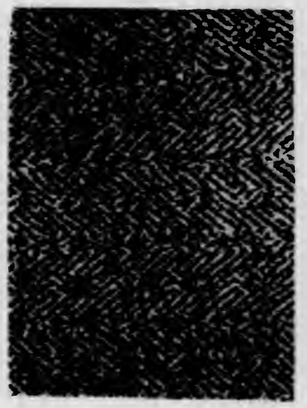
The ornamental design for a dress, substantially as shown and described.

115,271
DESIGN FOR A DRESS
Jules Roth, New York, N. Y.
Application May 13, 1939, Serial No. 84,961
Term of patent 3½ years



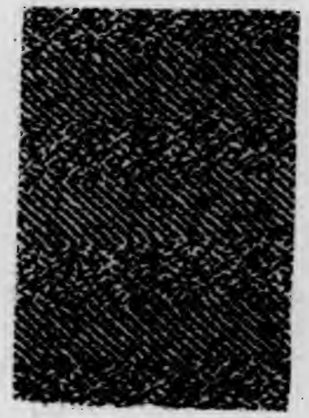
The ornamental design for a dress, substantially as shown and described.

115,272
DESIGN FOR A TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,396
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

115,273
DESIGN FOR A TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,397
Term of patent 3½ years



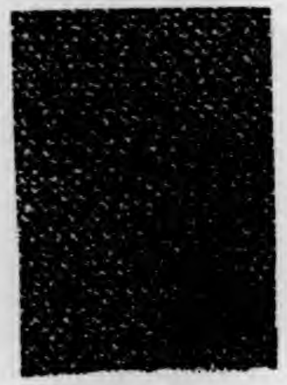
The ornamental design for a textile fabric, substantially as shown.

115,274
DESIGN FOR TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,402
Term of patent 3½ years



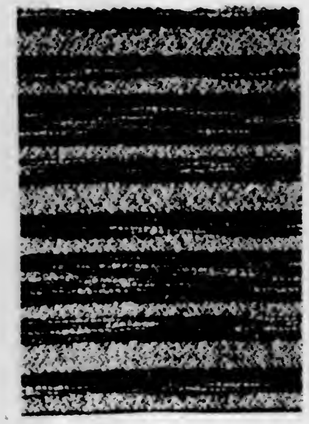
The ornamental design for textile fabric, substantially as shown.

115,275
DESIGN FOR TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,403
Term of patent 3½ years



The ornamental design for textile fabric, substantially as shown.

115,276
DESIGN FOR A TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,405
Term of patent 3½ years



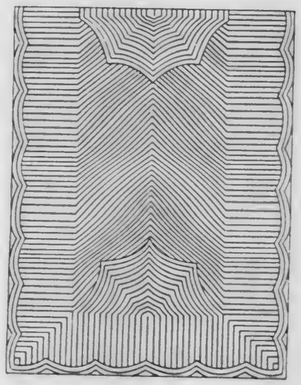
The ornamental design for a textile fabric, substantially as shown.

115,277
DESIGN FOR A DRESS OR SIMILAR ARTICLE
Lillie B. Starr, New York, and Samuel E. Badanes, Flushing, N. Y.
Application April 11, 1939, Serial No. 84,200
Term of patent 3½ years



The ornamental design for a dress or similar article, as shown.

115,278
DESIGN FOR A BEDSPREAD
Richard Steinweg, New York, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application April 13, 1939, Serial No. 84,271
Term of patent 3½ years



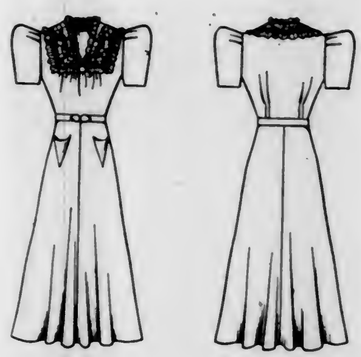
The ornamental design for a bedspread, substantially as shown.

115,279
DESIGN FOR DECORATIVE PAPER
Carl W. von Ehrn, Springfield, Mass., assignor to Holyoke Card & Paper Company, Springfield, Mass., a corporation of Massachusetts
Application April 26, 1939, Serial No. 84,577
Term of patent 3½ years



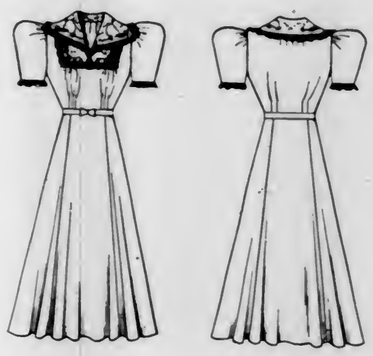
The ornamental design for decorative paper, as shown.

115,280
DESIGN FOR A DRESS
Sabina De Pasquale, New York, N. Y.
Application May 15, 1939, Serial No. 84,988
Term of patent 3½ years



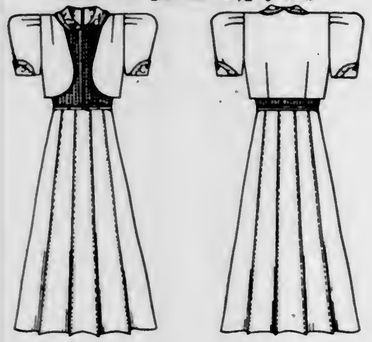
The ornamental design for a dress, substantially as shown.

115,281
DESIGN FOR A DRESS
Sabina De Pasquale, New York, N. Y.
Application May 15, 1939, Serial No. 84,989
Term of patent 3½ years

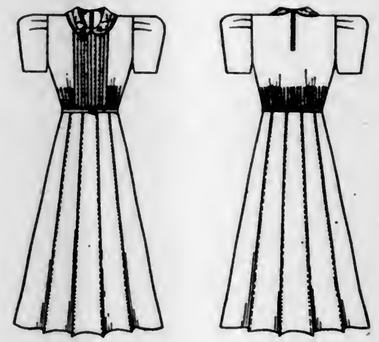


The ornamental design for a dress, substantially as shown.

115,282
DESIGN FOR A DRESS ENSEMBLE
Marcia Backus, New York, N. Y.
Application May 15, 1939, Serial No. 84,984
Term of patent 3½ years



115,282—Continued



The ornamental design for a dress ensemble, substantially as shown.

Patents Nos. 2,162,089 to 2,163,509

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June 20, 1939

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Reissues	6—No.	21,120 to No.	21,125, inclusive.
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Designs	95—No.	115,283 to No.	115,377, inclusive.
Total	1,182		

Interference Notices

U. S. Patent Office, *Washington, D. C. May 19, 1939.*

W. H. Pollard, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Central Wisconsin Canneries, Beaver Dam, Wis., for registration of a trade-mark and trade-mark registered April 20, 1926, No. 211,895, to W. H. Pollard, 354 South Front Street, Memphis, Tenn., and the notice of such proceeding sent by registered mail to said W. H. Pollard at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said W. H. Pollard, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., June 6, 1939.*

Emmerich Pillows, Inc., its assigns or legal representatives take notice:

An interference has been declared by this Office between the application of The Land-O-Nod Co., Broadway at Central, Minneapolis, Minn., for registration of a trade-mark, and trade-mark registered September 18, 1928, No. 247,065, to Chas. Emmerich and Co., 501 West Huron St., Chicago, Ill. The records of this Office show that Emmerich Pillows, Inc., Chicago, Ill., is the assignee of said registrant. A notice of such proceeding sent by registered mail to said Emmerich Pillows, Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Emmerich Pillows, Inc., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Disclaimers

1,642,076.—*Nathan M. Lower* and *Albert R. Chalker*, Pittsburgh, Pa. Distributor Tube for Stokers. Patent dated September 13, 1927. Disclaimer filed May 25, 1939, by the assignee, *The Standard Stoker Company, Incorporated.*

Hereby enters this disclaimer to claims 1, 4, 5, 6, 7, 8, 9, 12, and 13 of said Letters Patent.

1,927,185.—*Laurence E. Power* and *Lynde Bradley*, Milwaukee, Wis. Resistor Unit and Method of Making the Same. Patent dated September 19, 1933. Disclaimer filed May 25, 1939, by the assignee, *Allen-Bradley Company.*

Hereby enters this disclaimer to claims 9 and 10 in said specification.

2,096,341.—*Eugene Roberts*, Hastings, N. Y. Brake Cooling for Centrifugals and the Like. Patent dated October 19, 1937. Disclaimer filed May 24, 1939, by the assignee, *The Western States Machine Company.*

Hereby enters this disclaimer to claims 4, 5 and 11 in said specification.

2,120,347.—*James Bernfeld*, Newark, N. J. Dust Deflector. Patent dated June 14, 1938. Disclaimer filed May 26, 1939, by the patentee.

Hereby disclaims all the subject matter recited in claim 5 of Patent Number 2,120,347 except where the flange is spaced above the lower end of the deflector within the bag and serves mechanically to hold the bag in spaced relation to the deflector to form a dust collecting chamber between the deflector and the lower end of the bag.

Condition of Application Under Examination at Close of Business June 3, 1939

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 42,492; Trade-Mark Division, 1,495. Oldest new case, Oct. 6, 1938; oldest amended, Aug. 15, 1938.) (The dates given are 1939 except where † indicates 1938) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	†Dec. 27	Jan. 6	714
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Jan. 11	Jan. 20	630
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 7	Apr. 3	382
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Feb. 21	Mar. 7	433
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Mar. 15	Mar. 9	495
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	†Dec. 6	†Nov. 30	1008
5725	7. JARBOE, C. G., Optics; Photography	Feb. 16	Feb. 4	900
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec 21	†Aug. 15	1022
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Jan. 27	Jan. 24	677
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Feb. 25	Mar. 2	618
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Feb. 23	Feb. 9	450
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	†Dec. 7	†Dec. 7	547
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Dec. 19	†Dec. 17	671
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Mar. 20	Mar. 20	464
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 20	Jan. 19	1142
5716	16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 30	†Dec. 27	811
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 4	Feb. 2	501
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 10	†Dec. 14	559
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 9	Jan. 9	414
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Mar. 9	Mar. 7	322
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 8	Mar. 8	503
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Jan. 16	Jan. 16	861
7624	23. BUTTNER, W. J., Registers (part)	†Nov. 16	†Oct. 24	266
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 14	†Dec. 14	1079
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 1	Mar. 3	483
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 26	Jan. 27	601
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment	†Nov. 17	†Oct. 18	1144
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 15	Feb. 9	469
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Jan. 10	690
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Dec. 24	†Dec. 29	857
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Mar. 3	Mar. 3	630
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Mar. 8	Feb. 16	389
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Feb. 20	Mar. 9	695
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Mar. 15	Feb. 8	353
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Feb. 21	Feb. 20	566
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 10	Jan. 11	509
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Jan. 12	Jan. 5	686
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	†Nov 12	†Nov. 14	692
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 20	Feb. 24	569
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Jan. 5	Jan. 4	1413
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	†Dec. 19	†Dec. 28	332
5882	42. CUTTING, H. O., Electric Signaling	†Nov. 16	†Nov. 23	614
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Feb. 11	Feb. 28	469
4087B	44. HARVEY, L. P., Refrigeration	†Dec. 29	†Dec. 21	665
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Jan. 24	Feb. 8	596
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Jan. 14	Jan. 14	674
6082	47. LOWE, E. R., Clutches; Brakes	Feb. 16	Feb. 9	406
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 7	Mar. 8	414
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	†Nov. 7	†Oct. 15	1052
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Dec. 6	†Dec. 9	1198
5628	51. BACKUS, C. D., Radiant Energy (part)	Mar. 6	Mar. 6	638
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Jan. 18	Jan. 18	831
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Feb. 20	Jan. 7	563
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 16	Mar. 2	305
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Oct. 6	†Oct. 17	767
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	†Dec. 19	†Dec. 19	1151
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Feb. 4	Feb. 3	457
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Feb. 20	Feb. 23	380
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Feb. 23	Feb. 25	575
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Jan. 31	Jan. 27	417
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	†Dec. 24	Jan. 4	508
5621	62. PUGH, E. C., Games; Geometrical Instruments	Mar. 4	Mar. 22	419
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	†Dec. 2	†Dec. 6	561
4708	64. NASH, F. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Feb. 6	Feb. 6	863
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Jan. 4	†Dec. 30	606
2099B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND, Trade-Marks	May 1	May 19	1367
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DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE LOHSE

No. 4,066. Decided February 6, 1939

— F.(2d) —

PATENTABILITY—MEDICINAL NASAL ATOMIZER.

Claims for a medicinal nasal atomizer *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. James S. Stewart for Lohse.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

BLAND, *J.:*

The Primary Examiner of the United States Patent Office rejected all of appellant's claims in an application for a patent relating to a liquid atomizer. Upon appeal to the Board of Appeals, the decision of the Examiner was affirmed and the applicant has appealed here for a review of the decision of the Board.

Of the six appealed claims, number 1 is illustrative of the subject matter involved and reads as follows:

1. A liquid atomizer comprising liquid discharge and compressed air tubes leading to a common atomizer tip, a nasal cap dimensioned to be detachably applied over the exterior of the atomizer tip, the assembled tip and cap being provided with intervening vent passages for relieving pressure in the nasal passage in which the cap is inserted.

The alleged invention disclosed in the application relates to a medicinal nasal atomizer which is so constructed that it has an intervening vent passage inside the nasal cap to permit the escape of air and thus reduce the air pressure in the nasal cavities brought about by the use of the atomizer.

The references relied upon are: Dunlap, 646,491, April 3, 1900; Bailey, 1,968,366, July 31, 1934.

It will be noticed that claim 1 calls for the tip and cap to be provided with an intervening vent passage. Though differently worded, claims 2, 5, and 6 contain similar limitations. Claim 3 defines said pressure-relieving passage as "interior" of the cap while claim 4 contains the limitation "said tip being grooved externally to provide pressure-relieving passages interiorly of the cap."

In the Examiner's statement is the following:

The patent to Bailey shows liquid discharge and compressed air tubes leading to a common atomizer tip, all of which is conventional. This reference also shows "an exterior detachably applied centrally perforated nasal cap surrounding said tip and formed with a convex exterior surface adapted to fit into a nasal passage" • • • "the cap being • • • disposed to provide narrow • • • (exterior) passages • • • for relieving against excessive pressure in the nasal passage", • • •.

The patent to Dunlap shows a "tip and a • • • cap removably fitted over the exterior of the tip to provide interior pressure relieving passages", although not intended as an applicator • • •.

Claims 1 to 6, inclusive, were rejected on Bailey as not patentably distinguishing therefrom. This reference shows applicant's device in every respect except for the location of the vents between the tip and cap. This reference is for applicant's purpose and functions in the same manner. It relieves pressure in the nasal passages in use as does applicant's device. Applicant contends that device permits leakage of liquid exteriorly of the cap through the vents. If this be true there is also leakage of liquid in applicant's device through his vents inasmuch as air in each case escapes through these vents and is saturated with diffused particles of liquid. Applicant has also contended that the Bailey vents would be too shallow to be effective. It is well known that patent drawings are not required to be drawn to scale, and it is sufficient that Bailey states the vents do relieve pressure. But • • • this contention is idle. It is considered that whether the vents be interiorly of the cap as claimed or exteriorly of the cap as shown by Bailey is but a matter of choice, and only the skill of a mechanic is necessary to dispose the vent slots interiorly. Furthermore, vents are common in many arts as seen in Dunlap. No new or unexpected result is attained, *Powers-Kennedy Corp.* v. *Concrete M. & C. Co.*, 282 U. S. 175; 1931 C. D. 698. "It is never the object of those laws to grant a monopoly for every trifling device, every shadow of a shade of an idea, which would naturally and spontaneously occur to any skilled mechanic or operator in the ordinary progress of manufactures", *Atlantic Works* v. *Brady*, 107 U. S. 192, 200; 1883 C. D. 214. [Reference characters omitted.]

The Board of Appeals stated:

It is our view the claims which are directed broadly to providing interior passages between the tip and the cap do not patentably distinguish over Bailey. It seems to us if there were objection to the use of the Bailey device, the construction suggested by applicant would be an obvious variation, that is, to provide the grooves on the interior of the cap rather than on the exterior.

The Examiner has cited the patent to Dunlap in this connection but inasmuch as Dunlap is concerned with a spray tube for atomizers and the passage between the cap and the body of the atomizer is not for the purpose of relieving pressure in the nasal passages but for the passage of fluid to be vaporized with the air passing through the ports, we do not consider *this patent particularly pertinent.* [Italics ours; reference characters omitted.]

The decision of the Examiner is affirmed for the reasons given.

We are in agreement with the decision of the Board in holding that appellant's application discloses nothing inventive over that disclosed by Bailey. It seems to us that anyone skilled in the art who found that the Bailey device, by reason of the air vents being on the outside of the cap, would become choked with mucous substance, etc., and desired to cure this defect in the construction, would naturally resort to the expedient of constructing an air escape vent within the cap, and that this could be done without the exercise of the inventive faculty.

The decision of the Board of Appeals is affirmed. Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MOSS AND DAWSON

No. 4,076. Decided February 6, 1939

[101 F.(2d) 536]

1. PATENTABILITY—PROCESS OF ANNEALING.

Certain claims for a process of annealing the edges of material cut by an oxy-acetylene flame *Held* unpatentable over the prior art.

2. RULE 41—REQUIREMENT FOR DIVISION BETWEEN PROCESS AND APPARATUS CLAIMS.

A requirement for division between process claims and apparatus claims *Held* proper "since it is obvious that the invention claimed in the appealed process claims might be performed by another machine or by hand, it is not the same invention as that defined by the apparatus claims, nor are the process claims sufficiently dependent upon the apparatus claims as to bring them within this portion of the rule (41). Certainly this is true, in view of the fact that, in requiring division, the Board has expressly found that the two groups of claims cover subject matter which is separately classified in the Patent Office and require separate search in different divisions therein."

APPEAL from Patent Office. Affirmed.

Mr. Eugene L. Greenewald (*Mr. Warren J. Willis, Mr. Wilbur J. Kupfrian*, and *Mr. Alfred E. Page* of counsel) for Moss and Dawson.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

Appellants, on November 29, 1933, filed their application with the United States Patent Office for a patent relating to a method and an apparatus for an annealing treatment of steel for the elimination of certain objectionable metallurgical changes brought about by the high temperatures employed by oxy-acetylene cutting flames.

The application contained both apparatus and method claims. The Primary Examiner required division between the apparatus and the method claims. The method claims only were considered by the Examiner and of them claims numbered 4, 5 and 11 were allowed, while claims 1 and 30 to 36, inclusive, were rejected.

Upon appeal to the Board of Appeals, the decision of the Examiner rejecting the said method claims and his decision requiring division were affirmed. From the decision of the Board, appellants have appealed here and by appropriate reasons of appeal raise two principal questions, the first relating to the correctness of the decision of the Board in affirming the rejection of said method claims, upon the prior art cited, and the second to the correctness of the said decision affirming the Examiner's requirement for division.

Appellants' invention is aptly described by the Board of Appeals in the following language:

> The subject matter of the appealed claims is a process of annealing the edges of material cut by an oxy-acetylene flame. It has long been recognized that when the oxy-acetylene flame is used for either welding or cutting the parts of the metal immediately adjacent the weld or cut are necessarily hardened if the steel contains over .3 carbon. It is alleged that in attempting to bend steel cut in this manner without re-annealing, hair cracks will form in the hardened surface of the material. It is recognized that the steel cut in this manner can be annealed by placing the material in an annealing furnace and heating it up above the critical temperature, but in structural steel of large dimensions, this type of annealing is not feasible and appellant proposes to anneal the cut edges by local application of an oxy-acetylene flame. This is done by directing the flame directly against the cut surface so as to heat up the metal affected to the critical temperature followed by gradual cooling. Appellants also provide another series of flames of less intensity so as to delay the cooling of the metal after it has once been heated to the high temperature. After the metal has cooled down below the critical point it may be quenched in any suitable manner.

It is thought that claims 1 and 36 of the appealed claims are illustrative of the subject matter on appeal, and they read as follows:

> 1. In a method of substantially eliminating objectionable change produced in the metallurgical structure of metal cut by oxidizing and high-temperature heating agents, the step which comprises locally reheating successive portions of the exposed and thermally affected surface formed by the cutting operation.
>
> 36. The method of reconditioning the metallurgical structure of metal cut by means of oxidizing and high-temperature heating agents, which comprises first progressively reheating the exposed and thermally-affected surfaces to above the critical temperature, and subsequently progressively applying to said surfaces local high-temperature heat of less intensity than the first reheat.

The references listed in the decision of the Examiner are:

> Koller: High Temperature Control: Photo-electric-tube Pyrometry. Industrial and Eng. Chemistry, 1931. Vol. 23, pages 1379–1381;
>
> Moss: Machining with Oxyacetylene I—American Machinist, 1932. Vol. 76, pages 1217–1219. (See especially page 1219);
>
> P. L. R.: The Local Annealing of Metallic Arc Welds. The Welding Journal. Aug. 1925, pages 234–235;
>
> Anonymous: Heat Treatment with the Oxy-Acetylene Flame. Oxy-Acetylene Tips. Feb. 1926, pages 128–132;
>
> Miller, 1,828,977, Oct. 27, 1931.

Claims 1 and 30 to 36, inclusive, were rejected by the Examiner on the patent to Miller and the article by Moss as supplemented by the reference articles listed under the letters "P. L. R." and the term "Anonymous." Claims 30, 31, and 32 were rejected substantially upon the same ground as was claim 1, although in somewhat different language. Claim 36 was rejected on the same ground as claim 1, but since that claim (36) called for—

> "subsequently progressively applying to said surfaces local high-temperature heat of less intensity than the first reheat,"

the Examiner pointed out that the said P. L. R. and Anonymous references teach the idea of withdrawing the flame gradually to control the rate of cooling and—

> "the last part of this claim merely requires that the torch be held farther away from the work which produces less heating."

The patent to Miller is the principal reference applied by the Examiner and it is the only reference specifically relied upon by the Board of Appeals.

The Board noted that the article by Moss (one of the appellants) on "Machining with Oxy-acetylene," which stressed the need for annealing flame-cut edges of steel castings, was published in 1932, not more than two years prior to the filing of appellants' patent application, and in view of this fact stated:

> "For these reasons the 'Moss' article must be abandoned as a reference against the appealed claims."

The patent to Miller relates to a method of annealing fusion welds at the time the welds are made. Miller points out that the intense heat engendered in the welding material (if any is used) and the edges of the portions which are welded together by the use of an oxy-acetylene blowpipe or an electric arc, leaves the structure of the metal at the point of welding in a coarsened condition so that its ductility is somewhat lowered. He points out that the method of curing this difficulty, prior to his invention, consisted of permitting the welded article to become cool or nearly so and to then reheat it in its entirety or at least the entire weld and the metal in the vicinity of the weld and that this process was wasteful of both heat and time. In his patent he teaches that an oxy-acetylene blowpipe may be applied directly to the weld and the adjacent portions so as to intensely heat this particular portion of the article. His annealing means is moved along the weld a certain distance behind the welding means. The annealing takes place before the welded portion of the article loses the heat which was applied in the welding operation. In this manner he saves heat and time. He points out that while the welding means and annealing means may be used simultaneously, they are separate operations and that one must not interfere with the other.

The Board, in affirming the decision of the Examiner, said:

> It must be admitted that no one of the references cited shows the use of an oxy-acetylene flame for the purpose of annealing a flame cut edge, but the patent to Miller shows that it is old to anneal a weld by means of such a flame. In view of the fact that it is quite old to anneal steel which is too hard by heating it up above the critical temperature and then permitting it to cool slowly, we can see no invention in the board [broad] proposition of annealing a cut edge by directing the flame perpendicular to said edge. The annealing of a welded joint is closely analogous to the annealing of a welded edge. Appellants admit that the assignee of this application has a copending application for annealing a cut edge by applying the annealing heat simultaneously with the cutting of the steel. Where the steel being cut is comparatively thin, this method of annealing is feasible. In steel of considerable thickness it is probable that such a method is not feasible, but we believe that it would be apparent to any one skilled in this art that in annealing cut steel of considerable thickness that the flame should be directed to the cut surface.

Appellants, on this phase of the case, here contend that it was error for the Board to affirm the Examiner's rejection of their claims for a method of annealing the edges of acetylene cut steel upon the Miller disclosure which related to annealing a welded portion of two pieces of metal. Appellants urge that welding and cutting with an acetylene torch "are diametrically opposed from the standpoint of purpose." It is pointed out that a new metal is inserted between the welded portions which may possess entirely different characteristics than that possessed by the welded portions and that the problems which confronted the applicants and Miller were wholly unrelated.

We are in agreement with the Board in its conclusion to the effect that it being known that the defects in the metallurgical structure of metal caused by the intense heat of an oxy-acetylene welding operation, could be cured by annealing with the application of heat from an acetylene torch, it would not require invention to apply the torches in the manner taught by the applicants to the edges of pieces of metal to accomplish substantially the same purpose. It is true that the problems confronting the applicants and Miller were not identical, but it seems that the principle involved in solving the problems is identical.

[1] It will be observed that appellants' application by both drawings and specification teaches that by appropriate mechanical means torches emitting intense heat are first applied perpendicularly to the edges to be treated. This is followed by similarly applying torches with heat of lesser degree of intensity, the latter being controlled by automatic means (embodied in claim 32), stated to be a photoelectric cell, which regulates the intensity of the heat applied. The Koller article shows that it is old to use a photoelectric tube to regulate temperatures. In other words, the method which applicants teach, except as to the limitation relating to automatically regulating the rate of cooling, consists of the elements defined in the allowed claims 4, 5 and 11. They comprise the steps of first applying a source of intense heat locally to the surface to be reconditioned; second, retarding the cooling of the said surface by progressively (controlled by the electric eye) applying a second source of less intense heat locally to the successive heated portions of the surface. The claims upon appeal are much broader than the invention which is described in appellants' specification and as is defined by the allowed claims. The invention defined by the appealed claims therefore calls for nothing which we regard as inventive over that which was taught by Miller. The Board was not in error in affirming the decision of the Examiner for the reasons which it stated.

This brings us to the second question presented in the case: Did the Board err in affirming the decision of the Examiner requiring division between the method and the apparatus claims. Claim 12 is typical of the apparatus claims and reads:

> 12. Apparatus for restoring the metallurgical structure of a metal cut by oxidizing and high temperature heating agents which comprises a source of high temperature heat for reheating the cut edge to a predetermined degree of temperature above the critical range; a second source of heat of relatively less intensity arranged at a short distance behind the first source of heat, and means for supporting both said sources of heat and moving the same relative to the cut edge.

In appellants' brief there is considerable space devoted to this phase of the case. Certain Patent Office decisions, together with the case of *General Electric Co.* v. *P. R. Mallory & Co., Inc.*, 298 Fed. 579, have been cited. The Solicitor for the Patent Office on this phase of the case cites the following decisions in support of his contention that the requirement of division was a proper one: *In re Burns*, 23 C. C. P. A. (Patents) 1091, 83 F.(2d) 292, 471 O. G. 246; *In re Frasch*, 27 App. D. C. 25, 122 O. G. 1048; *In re Butler*, 17 C. C. P. A. (Patents) 810, 37 F.(2d) 623, 394 O. G. 276; and *In re Pedersen*, 22 C. C. P. A. (Patents) 788, 73 F.(2d) 928, 453 O. G. 466.

Appellants argue that the apparatus claims and the method claims in their application are for substantially identical subject matter and that they require "searches of the same scope." They point out that the Patent Office—

> "has long adopted the rule that method claims, and claims directed to apparatus for carrying out the method may properly be examined in a single application especially when the respective classes of search are in the same division,"

and state:

> Some doubt exists in the present case as to whether the invention resides in the method, in the apparatus or in both. Under these circumstances it is not at all unusual to allow claims both to the process and to the apparatus.

They further state that if division is required and a patent is issued for the apparatus there is a likelihood of the respective patents being acquired by separate owners and that neither would have a free and unrestricted use of his invention. Along this line of argument, it might be further suggested that, as far as we know, and as was suggested by counsel for Allen before the Supreme Court in *Steinmetz* v. *Allen*, 192 U. S. 543, 554, "the courts have never declared a patent invalid because of the joinder of distinct inventions," (see *In re Ferenci*, 23 C. C. P. A. (Patents) 1023, 83 F.(2d) 279). 468 O. G. 747, and that division is not re-

quired upon the theory that the inclusion of two distinct inventions in the same application would render any portion of the patent invalid.

As we have frequently said, and as has been said by the Supreme Court of the United States and other courts, the question of division is a troublesome one in that it is difficult to lay down any general rule by which to determine when a given invention shall be embraced in one or more patents. In *Bennet* v. *Fowler*, 8 Wall. 445, it was pointed out that some discretion must be left to the Patent Office. The rule (41) in the Patent Office at the time that decision was rendered was so definite in its requirement for division that the Supreme Court in *Steinmetz* v. *Allen*, supra, pointed out that the "rule was not the exercise of discretion; it is a determination not to hear." The rule was later amended so that when the inventions were mutually dependent they could be claimed in the same application. In the Steinmetz case, supra, the court recognized that the Patent Office tribunals should have discretion in this matter and indicated, we think, although no definite rule was laid down, the circumstances under which a requirement of division would be regarded as an abuse of such discretion.

We have had before us for review in a number of cases the question of division. It is unnecessary to discuss all of our decisions because in *In re Pedersen*, supra, most of those decisions, which are pertinent here, were reviewed and discussed with reference to their application to facts which are almost identical with those at bar. It must be remembered at the outset that Patent Office rule 41, as it now exists, provides, and properly so, that—

"where several distinct inventions are dependent upon each other and mutually contribute to produce a single result, they may be claimed in one application."

In the Pedersen case, supra, claims for a cigar enveloping machine and for a process of enveloping a cigar, and for the product—a cigar which might be enveloped by the machine—were involved. The Patent Office had required division between the claims relating to the machine and the claims relating to the process and the product. We are not here concerned with that portion of the decision relating to the product. We here have, as we had there, the relation between the machine and the process. We there said:

It seems clear that the determination of the patentability of the apparatus claims in appellant's application does not necessarily determine the patentability of his process and product claims. His apparatus claims may embody an invention, while his process and product claims may not. If the process claims are not dependent upon the apparatus described and claimed in the application, but may be performed by hand or upon other machines, it would seem that two distinct inventions would be involved if the process claims are patentable. This observation may also be made as to the product claims.

* * * * * * *

As we construe the above quoted language of the Supreme Court [referring to *Steinmetz* v. *Allen*, supra], we would not be warranted in reversing the decision of the Patent Office tribunals in requiring division of appellant's application unless there was an abuse of discretion upon their part in determining that the inventions here involved are not so closely related that division would be improper.

Upon the record before us, we cannot find that there was any such abuse of discretion. If the process and product claims, or any of them, are patentable per se, and a separate patent should issue therefor, we have no doubt that such patent would be sustained by the courts, irrespective of the issue of a separate patent upon appellant's apparatus claims.

Our holding in *In re Pedersen*, supra, in substance was that where the Patent Office had required division between a machine claim and a process claim on the theory that the inventions were not so closely related that division would be improper, we would not reverse the tribunals for abuse of their discretion if it appeared that the process claims were not dependent upon the apparatus, for the reason that the process might be performed by hand or upon other machines; that in that instance there would be two inventions and that the Patent Office tribunals in their discretionary power under the said rule would have the right to require division, it being understood that the main purpose of the rule was to facilitate the search in considering the patentability of the claims.

If it is proper in every instance to require division between apparatus and process claims where the process can be performed by other machines or by hand it may be pointed out that if the Patent Office tribunals exercise their discretion in this manner in all of their rulings and require division, no patent will ever contain apparatus and process claims, since if the process can be performed on the apparatus alone, it is probable that the process claims would be rejected upon the ground that they merely call for the function performed by the machine. In the light of this consideration, it may be argued that such an interpretation of the rule and a requirement of division in applying the rule so interpreted results in rendering futile the provision in the rule which authorizes the inclusion in a single application of claims for several distinct inventions. This is not necessarily true, because there is an abundance of opportunity for the application of the rule as applied to related inventions other than might be claimed for apparatuses and processes. For instance, it frequently occurs that claims for combinations and subcombinations are so interdependent and closely related that it would obviously be proper to include them in the same application. The requirement for division of this character of claims was thoroughly considered and many decisions pertaining to the question were discussed in *In re Ferenci*, supra. Moreover, if a process claim calls for nothing more than the function of the apparatus and must be rejected for that reason, it would be proper to submit it in the application containing the apparatus claim. In such instances, the chief reason for the rule requiring division would be absent insofar as the same search or substantially the same search in the same division of the Patent Office would be required in considering both kinds of claims.

We do not mean to hold that the dependency of claims and their relation to each other with respect to being included in the same application may be controlled entirely by an arbitrary classification of references in the Patent Office. See *In re Ferenci*, supra. The Commissioner of Patents, subject to the approval of the Secretary of Commerce, however, is authorized to establish rules which promote the efficient and expeditious consideration of patent applications and the interpretation by the Patent Office tribunals of its valid rules should be upheld, where such interpretation brings the application of such rules within the limits which the courts have sanctioned.

[2] Since it is obvious that the invention claimed in the appealed process claims might be performed by another machine or by hand, it is not the same invention as that defined by the apparatus claims, nor are the process claims sufficiently dependent upon the apparatus claims as to bring them within this portion of the rule (41). Certainly this is true, in view of the fact that, in requiring division, the Board has expressly found that the two groups of claims cover subject matter which is separately classified in the Patent Office and require separate search in different divisions therein.

For the reasons hereinbefore stated, it is our view that we would be wholly unjustified in reversing the decision of the Board of Appeals in affirming that of the Examiner requiring division of the claims as aforesaid.

It follows that the decision of the Board on both points raised by the reasons of appeal should be, and it is, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE BECKER

No. 4,050. Decided February 6, 1939

[101 F.(2d) 557]

PATENTABILITY—METHOD AND APPARATUS FOR MAKING ARTIFICIAL SAUSAGE CASINGS.

Certain claims for a method and a certain claim for apparatus for making artificial sausage casings *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. E. F. Wenderoth (*Mr. John E. Lind* of counsel) for Becker.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner rejecting claims 5, 6, 7, 9, 12, 13, 15, and 16 of appellant's application for a patent. Claim 21 was rejected by the Examiner but allowed by the Board. Eleven other claims were allowed by both tribunals below. Claim 9 is an apparatus claim. The other appealed claims are process claims.

Claims 5 and 9 are illustrative of the claims in issue and read as follows:

5. A method of making artificial sausage casings of pasty animal or vegetable fibrous masses comprising working said animal or vegetable masses into a plastic kneadable mass and then forming casings from said mass with a substantial portion of the fibers disposed transversely to the longitudinal axes of said casings.

9. An apparatus for making sausage casings of animal or vegetable material from a plastic kneadable mass comprising a tubular housing, a substantially smooth cylindrical core rotating in said housing said housing serving as a bearing for said core, one end of said core being smaller than the inner diameter of said housing in order to form an annular space and means for loading plastic material into said annular space.

Appellant's application relates to an apparatus and a method for making artificial sausage casings. Animal or vegetable material, before it is put in the machine, is worked into a plastic, kneadable, fibrous mass. It is then put in the machine and finally extruded in tubular form through an annular passage in such a manner that a part of the fibers comprising the material lie transverse the length of the tube. The improvement intended, as stated in the application, is that instead of all the fibers running lengthwise in the wall of the tube, lateral strength is materially gained by having a part of them run transverse to the length of the casing. In the apparatus disclosed there is a core member adjacent the space through which the material is extruded. The core member has a rotary movement which causes the fibers to assume a position transverse to the casing. Before extrusion the material is forced through a space between two stationary concentric annular surfaces in the apparatus which serves to align the fibers on the inner and outer surfaces of the casing along its length, the fibers between the two surfaces of the casing retaining their transverse position.

The references relied upon are: Clark, 454,030, June 16, 1891; Edison, 704,698, July 15, 1902; Samuel, 1,656,681, January 17, 1928.

The Board held that claims 5, 6, 7, 12, 15, and 16 were substantially met by the patent to Samuel; that apparatus claim 9 was broad enough to read on each of the patents to Edison and to Clark and affirmed generally the decision of the Examiner, except that it allowed claim 21 as above set out.

The patent to Samuel discloses a process of manufacturing artificial sausage casings from a more or less pasty mass or emulsion comprising waste animal substances. Appellant concedes in his brief that the material employed in his process is also composed of waste animal substances.

Appellant contends, however, that the material of Samuel is of soupy consistency while the material of appellant is "kneadable." We think it clear from the disclosure of Samuel that he provides for animal material of two consistencies, one of which is soupy and the other thick or pasty. This, we believe, is evident from his showing of two ways of producing his product. In one, a core is dipped into the emulsion and when it is removed a thin layer of emulsion adheres to it. When this dries it is removed from the core and is immediately ready as a sausage casing. Apparently the emulsion used in this process is soupy or thin.

He discloses further, however, a process providing for the manufacture of a continuous tube as follows:

The more or less pasty emulsion is supplied by means of a funnel or the like to and through a nozzle having in its mouth a concentric core so that the ejection opening is of annular form. By employing a suitable pressure-agent, such as pressure-air, in connection with usual ap-

paratus, devices or means for forcing the pasty emulsion through the annular orifice of the nozzle, with the agency of said pressure-air, a tubular thin-walled body of any desired length can be obtained, which when dried, may be severed into as many sections as desired to form the single artificial sausage skins.

We infer from the second disclosure that the material used must, of necessity, be of sufficient body, plasticity, or pastiness to be molded into tubular shape by the described extrusion, even though the tube must be dried immediately to prevent its collapse. A thin or soupy substance would certainly not be capable of being molded into a tube by the disclosed extrusion of the Samuel patent. Therefore, in so far as the expression "plastic kneadable mass" contained in appellant's application is concerned, we do not think that it is materially different from the pasty mass disclosed in Samuel's patent. In any event, if there be a difference, as contended by appellant, it is merely one of small degree. If a stiffer material were desired to suit certain circumstances, we think it would be quite obvious to one skilled in the art to make it that way.

Moreover, the Samuel patent discloses the use of a rotating cylindrical core in the making of the longer molds. Even though the tubular formation dries on this core, nevertheless, it appears to be used in the making of a long tube in the second heretofore-described process and since it rotates adjacent to the inner wall of the tube it must, according to appellant's own theory, lay the fibers transverse to the length of the tube.

Since the improvement in the art, as set out in appellant's application, consists in the placing of a portion of the fibers in the mass in transverse position to add lateral strength to the casing, this improvement seems to be met by the patent to Samuel.

The Examiner, however, did not rest his holding on the rejected process claims on the Samuel patent alone. He also relied upon the Clark reference in the rejection of each of the process claims and, in addition, on the Edison patent in rejecting claims 5, 6, and 7.

Even though it should be assumed, as contended by appellant, that the Board misinterpreted the disclosure of the Samuel patent as to the use and function of the revolving core, it is quite clear that the other two cited patents disclose a rotary core concentric with a stationary, annular orifice.

The patent to Clark relates to a machine for forming seamless tubes of indefinite length from fibrous material, as paper, asbestos, or any similar fibrous substances mixed with a sizing or binding material. The material is beaten up with a liquid into a pulpy, pasty, or semi-liquid condition and conducted through a tube or pipe to a threaded, revolving mandril, tapered to an extruding orifice where the mandril has a smooth surface and rotates adjacent to a space which has a stationary outer wall parallel to the smooth portion of the revolving mandril. The smooth portion of the mandril constitutes a revolving core which forms the hole in the extruded tube as the material is forced by its threaded portion through the opening.

It is clear that the rotation of the thread in the Clark device causes the fibers to lay in many different positions relative to each other and as the mass is forced into the smooth annular space between the stationary wall and revolving core, obviously the fibers adjacent the core will be wiped into transverse position to the tube being formed.

The patent to Edison relates to a process of treating fibers of annual growth for industrial purposes, such as grasses, grain, sugar-cane, etc. The product of the patent is used as fuel.

The material after being prepared is finally extruded in a continuous tube formed by being forced through an annular space bounded on the inside by a revolving cylindrical core concentric to a stationary pipe which forms the outer wall.

We think that the material of Edison would be subject to the same influence by the revolving core in transversely aligning fibers as the material of appellant as processed in his machine.

Appellant in his brief contends that because the Examiner at one time allowed two of the process claims and later rejected them, doubt was present in the Examiner's mind and that such doubt should have been resolved in favor of appellant. This contention is not tenable in light of the case of *In re Ellis*, 24 C. C. P. A. (Patents) 759, 86 F.(2d) 412, 478 O. G. 478. In that case we said:

> There is nothing unusual, certainly, about an Examiner changing his viewpoint as to the patentability of claims as the prosecution of a case progresses, and, so long as the rules of Patent Office practice are duly complied with, an applicant has no legal ground for compiaint because of such change in view.

Appellant further contends that the patents of Clark and Edison are not from an analogous art and are not therefore pertinent as references.

It can be seen from what has already been said in this opinion that both these patents disclose the making of tubes from vegetable materials and all of appellant's rejected claims include vegetable masses as well as animal masses for material.

While the methods disclosed by Clark and by Edison are not for the purpose of making sausage casings, nevertheless, they show that in the process of making a seamless tube of fibrous materials, a portion of the fibers are laid transversely. It appears to us that each of the cited references clearly shows that such process is old.

The only difference between the disclosure of appellant and the disclosures of the Clark and Edison references is that appellant shows animal as well as vegetable fibrous material. This difference is not sufficient to make the appealed process claims patentable over these two patents. In the case of *In re Williams*, 24 C. C. P. A. (Patents) 861, 864, 87 F.(2d) 499, 481 O. G. 216, we said:

> A process does not become patentably new merely because it is applied to a different object or material. *In re Dreyfus*, 20 C. C. P. A. (Patents) 1204, 65 F.(2d) 472; *In re Laughlin*, 18 C. C. P. A. (Patents) 1239, 48 F.(2d) 921.

We, therefore, affirm the decision of the Board with respect to the appealed process claims.

Apparatus claim 9 was rejected by the Board as being broad enough to read on each of the patents to Clark and Edison. The Examiner rejected the claim on the patent to Clark alone.

We have carefully examined both patents and the application together with the drawings in view of the language of the claim and are convinced that each of the patents discloses an apparatus that possesses substantially all of the requirements of the claim. Each of the two patents discloses a tubular housing within which there is a smooth cylindrical rotating core. The core appears, especially in the Clark drawing, to have the tubular housing for its bearing. It is quite clear that in both these references the end of the core is smaller than the inner diameter of the housing so as to form an annular space where the tube is extruded and it is also obvious that each of the references discloses means for leading plastic material into the said annular space.

We can see no error in the concurring opinions of the tribunals below in rejecting apparatus claim 9 as not disclosing invention over the Clark and the Edison patents.

For the reasons stated the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,077,965. (See 1,314,208.) 1,123,795. (See 1,314,208.)

1,162,510. (See 1,314,208.) 1,162,511. (See 1,314,208.)

1,232,968. (See 1,314,208.)

1,309,724. (See Re. 15,502.)

1,314,208, Pollen & Isherwood, Electric fire control for guns; 1,077,965, same, Naval fire control apparatus; 1,162,510, 1,162,511, same, Range clock; 1,232,968, same, Apparatus for determining sighting data for naval guns; 1,123,795, same, Means and apparatus for charting the positions of ships at sea, D. C., E. D. N. Y., Doc. E 8432, *A. H. Pollen et al.* v. *Ford Instrument Co., Inc., et al.*

Judgment favor defendant dismissing bill Mar. 15, 1939.

1,362,175. (See Re. 15,502.)

1,392,284. (See 1,551,998.)

1,395,604. (See Re. 15,502.)

1,405,773. (See Re. 15,502.)

1,424,890. (See Re. 15,502.)

1,438,229. (See Re. 15,502.)

1,445,473. (See Re. 15,502.)

1,477,394, H. S. Thatcher, Art of filtration; Re. 19,166, same, Filter aid, D. C. Del., Doc. E 1265, *Celite Corp.* v. *The Dicalite Co.* Consent decree dismissing bill Mar. 3, 1939.

1,487,405. (See Re. 15,502.)

1,489,996. (See Re. 15,502.)

1,513,637, M. Schwartz, Bushing; 1,633,555, F. R. Burgess, Container and sealing means therefor; 1,982,145, J. W. Shera, Closure device for metallic container, D. C. N. J., Doc. E 5837, *American Flange & Mfg. Co., Inc.*, v. *Atlas Steel Barrel Co.* Dismissed Dec. 15, 1938.

1,515,882, F. A. Purdy, Traffic indicator; 1,719,977, P. P. Horni, Illuminating signal, D. C., S. D. N. Y., Doc. E 84/299. *Horni Signal Mfg. Corp.* v. *Automatic Signal Corp.* Dismissed without prejudice (notice Mar. 13, 1939).

1,551,998, W. McLaren, Automatic cup pastry making machine; 1,392,284, Roberts & Roberts, Automatic cone making machine, appeal filed Mar. 16, 1939, C. C. A., 1st Cir., Doc. 3442, *National Biscuit Co.* v. *Crown Baking Co., Inc., et al.*

1,554,928. (See Re. 15,502.)

1,633,555. (See 1,513,637.)

1,641,871, 2,104,935, S. Solomon, Brief case, filed Nov. 25, 1938, D. C. N. J., Doc. 95, *S. Solomon* v. *Thomases, Inc.*

1,666,107. (See Re. 15,502.)

1,693,665. (See Re. 15,502.)

1,705,809, W. N. Davis et al., Process of removing sulphur compounds from petroleum oils; 1,864,755, Osmer & Craise, Method and apparatus for treating oils; 1,869,885, Davis & Hampton, Method of making motor fuel, D. C., N. D. Calif. (San Francisco), Doc. E 4203–R, *Standard Oil Co. of Calif.* v. *Tide Water Associated Oil Co.* Dismissed without prejudice Mar. 13, 1939.

1,719,977. (See 1,515,882.)

1,730,827. (See Re. 15,502.)

1,741,009, W. R. Buxton, Bill fold; 2,011,844; 1,866,618, same, Flexible pocket receptacle, D. C. N. J., Doc. E 5957, *W. R. Buxton et al.* v. *I. Smallman et al.* Consent decree Nov. 28, 1938.

1,749,441. (See Re. 15,502.)

1,753,458. (See Re. 17,852.)

1,785,770. (See Re. 19,022.)

1,794,441. (See Re. 15,502.)

1,798,168. (See Re. 19,921.)

1,864,755. (See 1,705,809.)

1,866,618. (See 1,741,009.) 1,869,885. (See 1,705,809.)

1,881,735, R. W. Lewis, Tire cover with wire mesh center shield; 1,886,270, C. M. Ellenberger, Tire cover, D. C. Del., Doc. E 1043, *Lyon Cover Co.* v. *Clayton & Lambert Mfg. Co.* Decree upon stipulation, dismissing bill Mar. 13, 1939.

1,886,270. (See 1,881,735.)

1,904,496, 1,987,781, R. Maw, Hydraulic transmission system, filed Mar. 15, 1939, D. C., S. D. N. Y., Doc. 3/51, *R. Maw* v. *Northern Pump Co., Inc.*

1,924,084, 1,924,085, Des. 90,904, G. A. Lyon, Cover for spare tires; 1,924,086, same, Tire cover with contractible clamping band; Des. 89,466, same, Combination spare tire cover side member and spare wheel hub closure for a tire cover, D. C. Del., Doc. E 1044, *Lyon, Inc.*, v. *Clayton & Lambert Mfg. Co.* Decree upon stipulation dismissing bill Mar. 13, 1939.

1,924,085. (See 1,924,084.) 1,924,086. (See 1,924,084.)

1,982,145. (See 1,513,637.) 1,987,781. (See 1,904,496.)

2,004,760. (See Re. 20,115.)

2,011,844. (See 1,741,009.)

2,082,689. (See Des. 95,668.)

2,100,274, B. Blayton et al., Process of refining oils; 2,150,733, B. H. Thurman, Process of refining glyceride-type oils, filed Mar. 17, 1939, D. C., E. D. Va., Doc. 22, *Refining, Inc.*, v. *Procter & Gamble Mfg. Co.*

2,104,935. (See 1,641,871.) 2,150,733. (See 2,100,274.)

Re. 15,502 (of 1,424,890), 1,309,724, 1,405,773, 1,438,229, W. M. Folberth, Windshield cleaner; 1,362,175, J. R. Oishei, same; 1,794,441, same, Windshield cleaner mounting; 1,395,604, J. G. Skinner, Windshield cleaner; 1,487,405, same, Suction motor for windshield cleaners; 1,554,928, A. B. Thompson, Motor for automatic windshield cleaners; 1,730,827, D. C. Schilling, Parking windshield cleaner; 1,445,473, W. J. Beagle, Windshield cleaner; 1,489,996, Folberth & Folberth, same; 1,666,107, Re. 19,202 (of 1,693,665), J. X. Phillips, Jr., same, D. C., W. D. N. Y., Doc. 1950, *Trico Products Corp.* v. *Montgomery Ward & Co., Inc.* Doc. 1951, *Trico Products*

Corp. v. *Western Auto Supply Co.* Dismissed for lack of prosecution without prejudice Mar. 14, 1939, in both cases.

Re. 17,212, M. Stockton, Process of and apparatus for treating minerals; Re. 20,844, R. Calvert et al., Diatomaceous earth product and process of making same, D. C. Del., Doc. 5, *Celite Corp.* v. *The Dicalite Co.* Consent decree dismissing bill Mar. 3, 1939.

Re. 17,393. (See Re. 18,841 and Re. 18,852 (*a*).)

Re. 17,852 (of 1,753,438), O. C. Willis, Dust bag for suction cleaning apparatus, filed Mar. 21, 1939, D. C., N. D. Ohio, E. Div., Doc. 19768, *The P. A. Greier Co.* v. *Electric Vacuum Cleaner Co., Inc.*

Re. 18,841 (of Re. 17,393), J. Mayer, Hair waving method, D. C., S. D. N. Y., Doc. E 85/162, *The Philad Co.* v. *Continental Permanent Wave Corp.* Dismissed (notice Mar. 10, 1939).

Re. 18,841. (See Re. 18,852 (*a*) and (*b*).)

Re. 18,852 (*a*) (of Re. 18,841 and Re. 17,393), J. Mayer, Hair waving appliance, D. C., S. D. N. Y., Doc. E 84/68, *The Philad Co.* v. *Lechler Laboratories, Inc.* Dismissed (notice Mar. 10, 1939).

Re. 18,852 (*b*) (of Re. 18,841), J. Mayer, Hair waving appliance, D. C., S. D. N. Y., Doc. E 83/280, *The Philad Co.* v. *I X L Permanent Wave Corp.* Dismissed (notice Mar. 10, 1939). Doc. E 83/281, *The Philad Co.* v. *Handy Machine Tool & Engineering Co., Inc.* Dismissed (notice Mar. 10, 1939), in both cases.

Re. 19,022 (of 1,785,770), Faber & Driggs, Jr., Aerial toy, D. C. N. J., Doc. E 4790, *Tipp Fireworks Co. et al.* v. *Unexcelled Mfg. Co., Inc.* Dismissed Nov. 22, 1938.

Re. 19,166. (See 1,477,394.)

Re. 19,202. (See Re. 15,502.)

Re. 19,921 (of 1,798,168), G. W. Poppe, Paper bag and process and machine for making same, D. C. N. J., Doc. E 5549, *Equitable Paper Bag Co., Inc.*, v. *John Waldron Corp.* Decree for injunction Jan. 11, 1939.

Re. 20,115 (of 2,004,760), H. H. Klein, Hair curler, D. C., S. D. N. Y., Doc. E 84/227, *H. H. Klein* v. *W. Finkelstein.* Dismissed (notice Mar. 14, 1939).

Re. 20,844. (See Re. 17,212.)

Des. 89,466. (See 1,924,084.)

Des. 90,904. (See 1,924,084.)

Des. 95,668, B. A. Dickerson, Lamp; 2,082,689, Des. 104,094, same, Portable lamp, D. C. N. J., Doc. E 5785, *Faries Mfg. Co.* v. *N. J. Electric Supply Co.* Consent decree Nov. 1, 1938.

Des. 95,917, Des. 95,918, C. D. McCann, Lighting fixture; Des. 95,973, Des. 95,974, same, Surface supported lighting fixture, filed Mar. 14, 1939, D. C., S. D. Iowa, S. Div., Doc. 4, *Modern Lighting & Mfg. Co.* v. *A. D. Hahn.*

Des. 95,918. (See Des. 95,917.)

Des. 95,973. (See Des. 95,917.)

Des. 95,974. (See Des. 95,917.)

Des. 104,094. (See Des. 95,668.)

Adjudicated Patents

(C. C. A. Ohio) Valjean patent, No. 1,512,869, for combustion apparatus, claims 1 to 6 and 9 *Held* not infringed. *Valjean* v. *Perfection Stove Co.*, 103 F.(2d) 60.

(D. C. N. Y.) Welder patent, No. 1,570,364, for sample tab, *Held* invalid. *Standard Sample* v. *Artcraft Sample Card Co.*, 27 F. Supp. 156.

(C. C. A. Del.) Bell patent, No. 1,574,546, for oil heating furnace, *Held* invalid. *Globe Oil & Refining Co.* v. *Sinclair Refining Co.*, 103 F.(2d) 95.

(C. C. A. Del.) Bell patent, No. 1,574,547, for operation of oil stills, *Held* invalid. *Id.*

(D. C. Ohio) Schmidt and Lee patent, No. 1,608,622, for process for preventing the dissolution of iron and steel in sulphuric acid and pickling baths, claims 1, 2, 3, 4, 6, 8, and 10 *Held* invalid. *American Chemical Paint Co.* v. *Firestone Steel Products Co.*, 27 F. Supp. 144.

(D. C. Ohio) Wiegand patent, No. 1,614,330, for electrical heating element, *Held* valid but not infringed. *Wiegand* v. *W. Bingham Co.*, 27 F. Supp. 157.

(D. C. Ohio) Wiegand patent, No. 1,614,331, for electrical heating element, *Held* invalid. *Id.*

(C. C. A. Del.) Bell patent, No. 1,623,773, for oil still, *Held* invalid. *Globe Oil & Refining Co.* v. *Sinclair Refining Co.*, 103 F.(2d) 95.

(D. C. Ohio) Lightfoot patent, No. 1,699,898, for electric heater, *Held* invalid. *Wiegand* v. *W. Bingham Co.*, 27 F. Supp. 157.

(D. C. N. Y.) Woelm patent, No. 1,700,246, for step by step lead pencil, claim 43 *Held* invalid. *Penmac Corporation* v. *Esterbrook Steel Pen Mfg. Co.*, 27 F. Supp. 86.

(D. C. N. Y.) Feldman patent, No. 1,700,255, for step by step lead pencil, claims 4, 15, 16, and 21 *Held* invalid. *Id.*

(D. C. N. Y.) Feldman patent, No. 1,700,257, for magazine lead pencil, claim 7 *Held* invalid. *Id.*

(C. C. A. Ill.) Gordon patent, No. 1,745,162, for ironing machine, claims 4 and 7 *Held* valid and infringed. *Gordon* v. *Westtown Electric & Appliance Co.*, 103 F.(2d) 139.

(C. C. A. Ill.) Gordon patent, No. 1,795,023, for ironing machine, claim 9 *Held* valid and infringed. *Id.*

(D. C. Ohio) Gravell and Douty patent, No. 1,796,839, for material for selectively controlling metal-pickling baths, claims 1 and 2 *Held* not infringed. *American Chemical Paint Co.* v. *Firestone Steel Products Co.*, 27 F. Supp. 144.

(D. C. N. Y.) Woelm patent, No. 1,866,072, for magazine lead pencil, claims 1, 2, 24, 25, 26, 28, 29, 30, 36, and 37 *Held* valid and infringed. *Penmac Corporation* v. *Esterbrook Steel Pen Mfg. Co.*, 27 F. Supp. 86.

(D. C. N. Y.) Woelm patent, No. 1,928,042, for magazine lead pencil, claims 6, 7, 10, 12, and 13 *Held* valid and infringed. *Id.*

(D. C. N. Y.) Klein patent, No. 2,004,760, for hair curler, *Held* not infringed. *Klein* v. *Finkelstein*, 27 F. Supp. 145.

(D. C. N. Y.) Freeman patent, No. 2,039,789, for hair curling device and method of curling the hair, *Held* not infringed. *Id.*

(D. C. N. Y.) Bulwa and Felbusch patent, No. 2,068,393, for tab, *Held* invalid. *Standard Sample* v. *Artcraft Sample Card Co.*, 27 F. Supp. 156.

(D. C. N. Y.) Klein reissue patent, No. 20,115, for hair curler, *Held* not infringed. *Klein* v. *Finkelstein*, 27 F. Supp. 145.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,964,329, M. E. Nordberg, Glass-to-metal thermal joint, decided April 14, 1939, claim 1.

Pat. 2,011,356, J. H. Ford, Bookstack, decided May 11, 1939, claim 16.

Pat. 2,050,704, K. Koeberle, R. Schweizer and C. Steigerwald, Process of producing N-substitution products of 1,4 diaminoanthraquinones, decided May 26, 1939, claim 22.

Pat. 2,055,506, Marcel Schlumberger, Core taking device, decided May 31, 1939, claims 1, 5, 25, 26, 27, 28, 29, 30, and 31.

Pat. 2,086,891, J. A. Bachmann and Roy Wilkins, Method of treatment for fermented and distilled beverages and the like, decided April 13, 1939, claims 1, 4, 5, 6, 7, 10, and 11.

Pat. 2,097,041, H. S. Powell, Tail pipe spout, decided May 29, 1939, claim 3.

Pat. 2,111,769, G. De Witt Graves, Lubricating compositions, decided May 9, 1939, claim 1.

Changes in Classification

Order No. 3,477, May 31, 1939, directs:

In *class 131, Tobacco* (Division 2), abolish the following subclasses:

37 Cigar and cigarette cutters.
38 Cigar cutters, tip
62 Combined
65 With changeable exhibitor,
64 With ignition means,
63 With ignition means and changeable exhibitor,
66 With receptacle.
20 Cigar perforators.
51 Cigar supports and stands.
13 Pipe cleaners.

The patents formerly contained in subclass 37 have been placed in class 146, Vegetable and Meat Cutters and Comminuters, subclass 81.5, established in this order, and the patents from the other subclasses have been placed for the most part in class 131, Tobacco, subclasses 231–260, and class 220, Metallic Receptacles, subclass 20.5, established in this order.

In *class 131, Tobacco* (Division 2), abolish the following subclass:

59 Tobacco users' appliances

and reestablish it as follows:

170 Tobacco users' appliances.

Most of the patents formerly contained in this subclass have been transferred to class 131, subclasses 231–260, established in this order.

In *class 131, Tobacco* (Division 2), establish the following subclasses, the patents contained therein having been taken for the most part from class 131, subclasses 13, 20, 37, 38, 51, 59, and 62–66, abolished in this order, and from various subclasses in class 206, Special Receptacles and Packages, and the definitions for which and for subclass 170, established above, may be seen in the Search Room:

Tobacco users' appliances
231 With ash receiver
232 Smoking device cleaner,
233 Tip cutter, perforator or slitter,
234 Igniter or scratching surface,
235 Extinguisher
236 Liquid type,
237 Movable extinguishing member,
238 And devices for other use
239 Match holder,
240 With cigar, cigarette or smoking device rest or holder
241 With special support,
242 With closure or covered compartment,
Smoking device cleaners
243 Combined or compound,
244 Fluid type,
245 Stem,
246 Bowl reamers and scrapers,
247 Pipe tampers,
248 Cigar tip cutters, combined
249 With igniter or scratching surface,
250 With receptacle or holder
251 Match receptacle,
252 With perforator or slitter,
253 Cigar tip perforators or slitters
254 Pin or drill,
255 Punch,
256 Cigar or cigarette extinguishers,
257 Supports
258 Finger ring type,
259 Staff type,
260 Smoking device.

In *class 146, Vegetable and Meat Cutters and Comminuters* (Division 25), establish the following subclass and definition:

End cutters
81.5 Cigar.

81.5. Machines under subclass 81 for cutting off the ends of cigars.
(1) Note.—For hand manipulable implements especially adapted for cutting tips from cigars, see class 30, CUTLERY, subclass 109 and indented subclasses.
(2) Note.—For cigar tip cutters combined with other devices and not elsewhere provided for, see class 131, TOBACCO, subclasses 233 and 248 and indented subclasses.

The patents contained in this subclass have been taken for the most part from class 131, TOBACCO, subclass 37, abolished in this order.

In *class 206, Special Receptacles and Packages* (Division 40), change the title of subclass 35 to read:

Receptacles
Match safes
Pocket
35 With wind guards,

abolish the existing definition and establish in lieu thereof the following:

35. Pocket match boxes provided with a wind guard to protect the flame of the match when ignited.
Search Class—
131—TOBACCO, subclass 174 and indented subclasses, for wind guards combined with smoking devices.

In *class 220, Metallic Receptacles* (Division 40), establish the following subclass and definition:

Compartment
20.5 Intercommunicable.

20.5. Receptacles under subclass 20 having means for establishing and blocking communication between the compartments thereof and permitting the operation of said means from the exterior of the receptacle.
(1) Note.—The operation of said means may merely involve the lifting or tilting of the receptacle or the deposition of material on said means.
(2) **Search Class—**
232—DEPOSIT AND COLLECTION RECEPTACLES, subclass 1, for receptacles of this type having means for dumping material from the lower compartment.

The patents contained in this subclass have been taken for the most part from class 131, Tobacco, subclass 51, abolished in this order, and from class 220, subclasses 20 and 23.

In *class 7, Compound Tools* (Division 29), in note (2) of the main class definition in the reference to class 206, Special Receptacles and Packages, cancel subclass 35, and add to the note the following:

131—TOBACCO, subclass 233, for combinations of ash receivers and cigar tip cutters, subclass 243, for combined or compound smoking device cleaning tools, and subclasses 248 and 253 and indented subclasses, for combined cigar tip cutters, perforators and slitters.

In *class 15, Brushing, Scrubbing and General Cleaning* (Division 27), add to the main class definition the following note:

Note.—See class 131, TOBACCO, subclasses 232 and 243–246, for implements for cleaning smoking devices;

in subclass 104 add the following note:

Note.—See class 131, TOBACCO, subclasses 232 and 243–246, for implements for cleaning smoking devices;

in subclass 104.02 add the following note:

Note.—For implements for reaming the bowls of smoking devices, see class 131, TOBACCO, subclass 246;

in subclass 104.03, in note (3) add:

131—TOBACCO, subclasses 232 and 243–246;

in subclass 104.055 add the following note:

Note.—For apparatus for cleaning smoking devices by use of a current of air or other gaseous fluid, see class 131, TOBACCO, subclass 244;

and in subclass 236, in note (2) add:

131—TOBACCO, subclass 246.

In *class 25, Plastic Block and Earthenware Apparatus* (Division 15), subclass 6, add the following note:

Note.—For other apparatus for manufacturing tobacco pipes, see class 131, TOBACCO, subclass 172 and the search notes appended thereto.

In *class 30, Cutlery* (Division 24), in the main class definition, in note (48) cancel "subclass 38 and indented subclasses" and substitute therefor *subclasses 233 and 248 and 253 and their indented subclasses*; in note (56) cancel "35"; in subclass 109, note (3), in the reference to class 131, Tobacco, cancel "subclass 62 and indented

subclasses" and substitute therefor *subclasses 233 and 248 and indented subclasses,* and cancel the reference to class 206, Special Receptacles and Packages; in subclass 123, note (5), in the reference to class 131, Tobacco, cancel "subclass 62 and indented subclasses" and substitute therefor *subclasses 233 and 248 and 253 and their indented subclasses,* and in the reference to class 206, Special Receptacles and Packages, cancel subclass 35.

In *class 63, Jewelry* (Division 57), subclass 1, number note (2) as (3) and add:

(2) Note.—For finger rings having provision for supporting a cigar or cigarette, see class 131, TOBACCO, subclass 258.

In *class 67, Illuminating Burners* (Division 30), subclass 4, cancel note (2) and substitute:

(2) Note.—For combinations of cigar igniters and tobacco users' appliances, see class 131, TOBACCO, subclasses 185, 234, and 249.

In *class 120, Stationery* (Division 53), subclass 108, cancel the reference to class 131, Tobacco.

In *class 146, Vegetable and Meat Cutters and Comminuters* (Division 25), in note (2) of the main class definition in the reference to class 131, Tobacco, cancel "37, 38, and 62–66" and substitute *233, 248, and 253 and indented subclasses.*

In *class 164, Cutting and Punching Sheets and Bars* (Division 57), in note (3) of subclass 41, in note (3) of subclass 44, and in note (2) of subclass 46 cancel "37 and 38" and substitute *233 and 248 and indented subclasses,* and in subclass 47, note (3), in the reference to class 131, Tobacco, cancel "subclass 38" and substitute *subclasses 233 and 248 and indented subclasses.*

In *class 166, Wells* (Division 38), subclass 16, in note (1) cancel the reference to class 131, Tobacco.

In *class 206, Special Receptacles and Packages* (Division 40), in the main class definition add:

(3) Note.—See class 131, TOBACCO, subclass 231 and indented subclasses, for tobacco users' appliances combined with ash receiving receptacles;

in subclass 20 add:

Note.—For match holders combined with tobacco users' appliances, see class 131, TOBACCO, subclasses 239 and 251;

in subclass 41.4 cancel the existing note and substitute:

(1) Note.—For tobacco users' appliances combined with igniters and with ash receiving receptacles, see class 131, TOBACCO, subclass 234.

(2) Note.—For delivering devices generally, see class 312, SUPPORTS, CABINET STRUCTURES, and for match boxes with igniters, see this class (206), subclasses 33.5 and 34, if of pocket use, and class 312, subclasses 81, 82, 85, and 86, if not of personal or pocket kind;

and in subclass 41.5 cancel the existing notes and substitute:

Note.—See class 131, TOBACCO, subclass 233, for combinations of cigar tip cutters, perforators or slitters with ash receiving receptacles.

In *class 211, Supports, Racks* (Division 8), subclass 133, cancel the existing note and substitute:

Note.—For tobacco users' appliances combined with stands supporting ash receiving receptacles, see class 131, TOBACCO, subclass 231 and indented subclasses.

In *class 220, Metallic Receptacles* (Division 40), in the main class definition add the following note:

(15) Note.—For tobacco users' appliances combined with ash receiving receptacles, see class 131, TOBACCO, subclass 231 and indented subclasses;

in subclass 23, number the existing note (2) and add:

(1) Note.—See this class, subclass 20.5, for receptacles of this type having externally operable means to establish and block communication between the compartments;

and in subclass 36 add the following note:

(4) **Search this class,** subclass 20.5.

In *class 224, Package and Article Carriers* (Division 29), subclass 28, number the existing note (1) and add:

(2) Note.—For finger rings having cigar and cigarette supports, see class 131, TOBACCO, subclass 258.

In *class 232, Deposit and Collection Receptacles* (Division 41), subclass 1, add the following note:

Search Class—

220—METALLIC RECEPTACLES, subclass 20.5, for compartmented receptacles providing for the dumping of material from one compartment to another, as exemplified by the ordinary ash tray.

In *class 248, Supports* (Division 52), in the main class definition cancel note (32) and substitute:

(32) Note.—For supports and stands combined or peculiarly adapted for use with tobacco users' appliances, see class 131, TOBACCO, subclass 170 and indented subclasses, particularly subclasses 257–260;

and in subclass 127 cancel note (15) and substitute:

(15) Note.—For stands combined with tobacco users' appliances, see class 131, TOBACCO, subclass 231 and indented subclasses.

In *class 294, Handling, Hand and Hoist-Line Implements* (Division 4), in the main class definition, in notes (1) and (4) cancel the reference to class 131, Tobacco.

In *class 311, Supports, Tables* (Division 20), subclass 103, cancel note (5) and substitute:

(5) Note.—See class 131, TOBACCO, subclass 170 and indented subclasses, for tobacco users' appliances combined with table attachments.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 20, 1939

[VOL. 503. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 417,492. HICKMAN, WILLIAMS & CO., Cincinnati, Ohio. Filed Mar. 25, 1939.

Home-Glo-Coke

The word " Coke" is disclaimed apart from the mark. For Coke.
Claims use since Oct. 1, 1937.

Ser. No. 417,527. DARBY COAL CORPORATION, Verda and Le Junior, Ky. Filed Mar. 27, 1939.



For Coal.
Claims use since Nov. 1, 1938.

Ser. No. 418,113. MITCHELL & PEIRSON INC., Philadelphia, Pa. Filed Apr. 11, 1939.

Sani-Kid

Applicant disclaims the word "Kid" apart from the mark.
For Leather in the Piece.
Claims use since Mar. 24, 1939.

CLASS 2

Receptacles

Ser. No. 416,480. REX PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 27, 1939.

FIFTH Rex AVENUE

For Unfilled Vanity Cases and Compacts Not Made of Precious Metal.
Claims use since Oct. 15, 1937.

Ser. No. 417,120. GEORGE D. ELLIS & SONS, INCORPORATED, Philadelphia, Pa. Filed Mar. 16, 1939.

SAN-I-SAFE

The word "Safe" is disclaimed apart from the mark.
For Tin Boxes for Holding Ointment and for Other Purposes.
Claims use since Feb. 17, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 411,826. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Oct. 20, 1938.

DOWCLENE

For Dry Cleaning Solvents.
Claims use since Aug. 15, 1938.

Ser. No. 411,827. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Oct. 20, 1938.



For Dry Cleaning Solvents.
Claims use since Sept. 22, 1938.

Ser. No. 412,602. HERCULES POWDER COMPANY, Wilmington, Del. Filed Nov. 10, 1938.

HYGENOL

For Cleaning Preparation Possessing Incidental Disinfecting Properties Used for General Household and Industrial Cleaning Purposes.

Claims use since Oct. 8, 1934.

Ser. No. 418,485. LEVER BROTHERS COMPANY, Cambridge, Mass. Filed Apr. 20, 1939.

SILVER DUST

For Soap.

Claims use since May 29, 1931.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 405,566. ANGIE M. REED, Miami, Fla. Filed Filed Apr. 21, 1938.

REED'S HAIR TONIC



No claim is made to the words "Hair Tonic" apart from the mark. The portrait is that of the applicant.

For Hair Tonic.

Claims use since July 8, 1935.

Ser. No. 412,085. COTY, INC., New York, N. Y. Filed Oct. 27, 1938.

VARIATIONS

For Face Powder, Dusting Powder, Toilet Water, Perfume, Suntan Oil, Skin and Hair Lotions, Brilliantine, Rouge Compacts, Powder Compacts, Lipsticks, Sachet Powders, Face Creams, Bath Salts, Talcum Powders, Rouges.

Claims use since Oct. 24, 1938.

Ser. No. 416,886. THE GEORGE ARLEN FOOT HEALTH CENTER LTD., New York, N. Y. Filed Mar. 10, 1939.

ARLEX

For Foot Powder.

Claims use since Dec. 10, 1935.

Ser. No. 418,380. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figure is fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since May 1, 1938.

Ser. No. 418,381. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figure is fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel

Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Jan. 3, 1939.

Ser. No. 418,382. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.

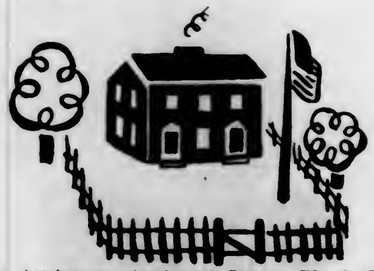


The figures are fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since July 1, 1938.

Ser. No. 418,383. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Aug. 1, 1938.

Ser. No. 418,384. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Aug. 1, 1938.

Ser. No. 418,385. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The picture is fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot

Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since May 1, 1938.

Ser. No. 418,386. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



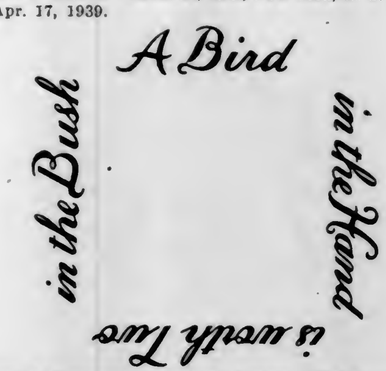
The figure is fanciful.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches; Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since May 1, 1938.

Ser. No. 418,387. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figures are fanciful.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since May 1, 1938.

Ser. No. 418,388. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since Aug. 1, 1938.

Ser. No. 418,389. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figure is fanciful.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos,

Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since Aug. 1, 1938.

Ser. No. 418,390. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figure is fanciful.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Champoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since Nov. 1, 1938.

Ser. No. 418,391. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figure is fanciful.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since July 1, 1938.

Ser. No. 418,392. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figure is fanciful.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since July 1, 1938.

Ser. No. 418,394. SHULTON, INC., New York, N. Y. Filed Apr. 17, 1939.



The figures are fanciful.
For Astringents, Astringent Cerates, Bleach Creams,

Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Jan. 3, 1939.

Ser. No. 418,669. SHULTON, INC., New York, N. Y. Filed Apr. 26, 1939.



The figures are fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since July 1, 1938.

Ser. No. 418,670. SHULTON, INC., New York, N. Y. Filed Apr. 26, 1939.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Aug. 1, 1938.

Ser. No. 418,671. SHULTON, INC., New York, N. Y. Filed Apr. 26, 1939.

A Stitch in Time Saveth Nine

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since July 1, 1938.

Ser. No. 418,800. X-SOL INCORPORATED, Trenton, N. J. Filed Apr. 27, 1939.

X-SOL

For Composition for Use in the Treatment of Athletes' Foot.

Claims use since June 1, 1938.

Ser. No. 418,862. SHULTON, INC., New York, N. Y. Filed Apr. 29, 1939.



The figure is fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity

Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Dec. 1, 1937.

Ser. No. 418,911. AMERICAN FERMENT CO., INC., New York, N. Y. Filed May 1, 1939.

CAROID

For Dentifrice.

Claims use since 1922.

Ser. No. 418,935. NYAL COMPANY, Detroit, Mich. Filed May 1, 1939.

CANTACAPS

For Preparation Used in the Treatment of Certain Genito-Urinary Conditions.

Claims use since Apr. 14, 1939.

Ser. No. 418,936. NYAL COMPANY, Detroit, Mich. Filed May 1, 1939.

NYRILLA

For General Tonic.

Claims use since Apr. 14, 1939.

Ser. No. 418,937. NYAL COMPANY, Detroit, Mich. Filed May 1, 1939.

NYMATIC

For Preparation Used in the Treatment of Rheumatic Fever.

Claims use since Apr. 14, 1939.

Ser. No. 419,044. SCHERING CORPORATION, Bloomfield, N. J. Filed May 3, 1939.

CORTATE

For Hormone Preparation Recommended for the Treatment of Addison's Disease, Asthenia, and Other Conditions Due to Hormone Deficiency.

Claims use since Apr. 27, 1939.

Ser. No. 419,099. SHULTON, INC., New York, N. Y. Filed May 5, 1939.



The figures are fanciful.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Vanishing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream or Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salve, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since July 1, 1938.

Ser. No. 419,199. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 8, 1939.

METHALOIDS

For Preparation Used in the Treatment of Certain Genito-Urinary Conditions.

Claims use since Apr. 18, 1939.

Ser. No. 419,219. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Richmond, Calif. Filed May 9, 1939.

METAG

For Parasiticides.

Claims use since Apr. 21, 1939.

Ser. No. 419,434. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

NYALOIDS

For Lozenge for Soothing and Cooling the Throat.

Claims use since Apr. 18, 1939.

Ser. No. 419,435. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

FITONE

For Tonic.

Claims use since May 8, 1939.

Ser. No. 419,436. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

SYNUTONE

For Tonic.
Claims use since May 8, 1939.

Ser. No. 419,437. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

EARITE

For Ear Ache Drops for the Relief of Pain Caused by Hardened Wax.
Claims use since May 8, 1939.

Ser. No. 419,438. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

FEDJEL

For Ephedrine Nasal Jelly.
Claims use since May 8, 1939.

Ser. No. 419,439. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

GARDACID

For Preparation Used in the Treatment of Dysentery and Diarrhea.
Claims use since May 8, 1939.

CLASS 7

Cordage

Ser. No. 417,743. CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed Apr. 1, 1939.

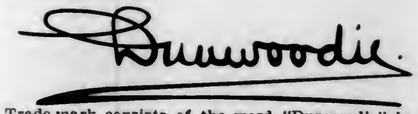


For Twines of All Kinds in Cotton, Hemp, Flax, and Jute.
Claims use since Jan. 2, 1932.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 418,969. DAVID DUNWOODIE, Dayton, Ohio. Filed May 2, 1939.



Trade-mark consists of the word "Dunwoodie" in facsimile of the handwriting of applicant.
For Smoking Pipes.
Claims use since Mar. 26, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 417,936. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y. Filed Apr. 6, 1939.

FLEXO

For Typewriter Ribbon and Carbon Paper.
Claims use since Dec. 1, 1921.

Ser. No. 417,937. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y. Filed Apr. 6, 1939.



For Typewriter Ribbon and Carbon Paper.
Claims use since June 1, 1937.

Ser. No. 417,940. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y. Filed Apr. 6, 1939.



For Typewriter Ribbon and Carbon Paper.
Claims use since July 1, 1933.

Ser. No. 418,210. POPE & GRAY, INC., New York, N. Y. Filed Apr. 13, 1939.

METLAK

For Printing and Lithographic Inks and Finely Divided Metals, such as Aluminum and a Mixture of Copper and Zinc, as Ingredients Therefor.
Claims use since Mar. 30, 1939.

Ser. No. 418,494. OLD TOWN RIBBON & CARBON CO. INC., New York, N. Y. Filed Apr. 20, 1939.

STRATOSPHERE

For Carbon Paper, Typewriter Ribbons.
Claims use since Feb. 13, 1939.

CLASS 12

Construction Materials

Ser. No. 415,568. ROOFER MANUFACTURERS ASSOCIATION, Cuthbert, Ga. Filed Feb. 3, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

RMA

For Lumber.
Claims use since July 24, 1937.

Ser. No. 416,786. CREO-DIPT CO., INC., North Tonawanda, N. Y. Filed Mar. 8, 1939.

ZEPHYRS

For Stained Wood Shingles.
Claims use since Oct. 1, 1938.

Ser. No. 417,868. CLEARVIEW EQUIPMENT AND MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 5, 1939.



For Setting Compound Used in the Erection and Construction of Monuments and Mausoleums.
Claims use since May 5, 1938.

Ser. No. 418,043. HOWE & FRENCH, INC., Boston, Mass. Filed Apr. 10, 1939.

SYNTHE-WOOD

The word "Wood" used alone is disclaimed.
For Cementitious Material Consisting of Wood in Paste Form which Hardens when Exposed to Air.
Claims use since May 29, 1931.

Ser. No. 418,222. WILES-CHIPMAN LUMBER CO., St. Louis, Mo. Filed Apr. 13, 1939.

"Stayput"

For Lumber.
Claims use since Mar. 15, 1938.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 417,881. LYNDON PRODUCTS CORPORATION, Norwalk, Conn. Filed Apr. 5, 1939.

Suav-air

For Perfume and Deodorant Dispensing Diffusers and Disseminators for Attachment to Lamps.
Claims use since Nov. 15, 1938.

Ser. No. 418,415. THE NATIONAL SUPPLY COMPANY, Pittsburgh, Pa. Filed Apr. 18, 1939.

CW

For Metal Pipes and Tubes.
Claims use since July 22, 1938.

CLASS 15

Oils and Greases

Ser. No. 405,840. ATROLENE OIL COMPANY, Lowell, Mass. Filed Apr. 29, 1938.

ATROLENE

For Lubricating Oil, Gasoline, and Lubricating Greases.
Claims use since September, 1933.

Ser. No. 414,672. JOHN H. TUELL, doing business as Guarantee Oil Company, Connersville, Ind. Filed Jan. 10, 1939.

RED ROSE

For Gasoline, Kerosene, and Lubricating Oils.
Claims use since Mar. 1, 1929.

Ser. No. 416,887. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Mar. 10, 1939.

WAXEMUL

For Paraffin Wax.
Claims use since Jan. 9, 1939.

Ser. No. 416,888. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Mar. 10, 1939.

ATLANTIC WAXEMUL

For Paraffin Wax.
Claims use since Jan. 9, 1939.

CLASS 16

Paints and Painters' Materials

Ser. No. 418,452. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio. Filed Apr. 19, 1939.

KROMALIN

For Paints (Ready Mixed, Paste Form, and Dry), Paint Enamels, Lacquers, Japans, Varnishes, Stains, Paint Fillers, Water Paints, White Lead, Dry Paint Colors, and Paint Pigments.
Claims use since Jan. 18, 1938.

Ser. No. 418,699. THE AMERICAN VARNISH COMPANY, Chicago, Ill. Filed Apr. 26, 1939.

Minstrel

For Liquid Paint Enamels.
Claims use since Apr. 13, 1939.

Ser. No. 418,735. NATIONAL LEAD COMPANY, New York, N. Y. Filed Apr. 26, 1939. Under 10-year proviso.

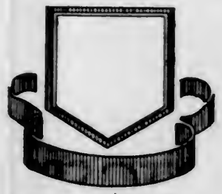
J. H. MORLEY & CO. CLEVELAND

For White Lead, Dry and in Oil, and Oxides of Lead.
Claims use since 1867.

CLASS 17

Tobacco Products

Ser. No. 418,951. A. SENSENBRENNER SONS, Los Angeles, Calif. Filed May 1, 1939.



The drawing is lined for red.
For Cigars.
Claims use since Nov. 24, 1937.

Ser. No. 419,065. THE AXTON-FISHER TOBACCO COMPANY, Louisville, Ky. Filed May 4, 1939.

BETTA

For Cigarettes.
Claims use since Mar. 20, 1939.

CLASS 20

Linoleum and Oiled Cloth

Ser. No. 419,194. KOLOR-THRU CORPORATION, Philadelphia, Pa. Filed May 8, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

KOLORFLOR

For Composition Floor Coverings—Namely, Rugs and Yard Goods by the Roll.
Claims use since Mar. 19, 1936.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 390,651. HYGRADE SYLVANIA CORPORATION, Salem, Mass. Filed Mar. 29, 1937.



The word "Hygrade" is disclaimed apart from the mark.
For Electric Lamps.
Claims use since 1925.

Ser. No. 390,652. HYGRADE SYLVANIA CORPORATION, Salem, Mass. Filed Mar. 29, 1937.



The drawing is lined for red. The word "Hygrade" and the representation of the electric lamp are disclaimed apart from the mark.
For Electric Lamps, Electric Light Translating Devices.
Claims use since April, 1932.

Ser. No. 403,647. DAIMLER-BENZ AKTIENGESELLSCHAFT, Stuttgart-Unterturkheim, Germany. Filed Mar. 3, 1938.



For Electric Motors, Ignition Batteries, Accumulators, Transformers, Inductors, Magnets, Electromagnets, Magnetos, Electric Ignition Devices for Internal Combustion Engines, Ignition-Plugs and Armatures, Dynamo-Machines, Electrical Lifts, Electric Bells, Electric Foot-Warmers, Electric Batteries, Electric Couplings, Electric Cut-Outs, Electric Switches, Electric Ceiling and Wall Roses, Electric-Wire Casings and Conduits, Electric-Wire Clips and Staples, Electric-Wire-Insulating Blocks, Electric-Lamp Holders, Fuse Wire and Strips, Resistances, Electric Igniters, Electric Junction and Test Boxes, Electric-Arc Lamps, Carbon-Holders, Electrodes, Mercury-Vapor Lamps, Portable Electric Lamps, Electric Signal-Lamps, Electric Incandescent Lamps, Lamp-Filaments, Electric Roof-Lamps, Electric Pendants, Electric Contacts, Electric Pushes and Pulls, Electric Switchboards, Electrollers, Electric Candles and Electric Night-Lights, Insulated Wire, Radio Transmitting and Receiving Sets, Electric Cigar Lighters.
Claims use since December, 1932.

Ser. No. 411,074. ASTATIC MICROPHONE LABORATORY, INCORPORATED, Youngstown, Ohio. Filed Sept. 29, 1938.

ASTATIC

For Microphones, Phonograph Pickups, Cardiaphones, Filters, Microphone Stands, and Vibration Pickups.
Claims use since Sept. 10, 1936.

Ser. No. 417,446. THE ELECTRIC CONTROLLER & MFG. CO., Cleveland, Ohio. Filed Mar. 24, 1939.

LINE-ARC

The representation of the carrying name plate is disclaimed.
For Electric Switches and Electric Contactors.
Claims use since Mar. 2, 1939.

Ser. No. 417,846. MONOWATT ELECTRIC CORPORATION, Providence, R. I. Filed Apr. 4, 1939.

MONOPULL

For Electrical Connectors.
Claims use since July, 1930.

Ser. No. 418,234. THE BLACK & DECKER MANUFACTURING COMPANY, Towson, Md. Filed Apr. 14, 1939.

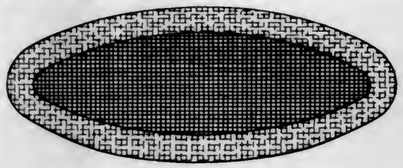
HORNET

For Electrical Apparatus and Machines and Accessories, Consisting of Portable Electric Tools for Use in Such Craft Work as Drilling, Boring, Grinding, Buffing, Burnishing, Screw Driving, Nut Running, and the Like.
Claims use since Nov. 30, 1938.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 389,266. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 23, 1937.



For Mechanics' Tools—Namely, Wrenches, Pliers, Chisels, Tinners' Snips, Screwdrivers, Hammers, Hand Saws, Coping Saws, Hacksaws, Smooth Planes, Block Planes, Bit Braces, Auger Bits, Hand Drills, Breast Drills, Pipe Stock and Die Sets, Axes, Electric Soldering Irons, and Hatchets.
Claims use since Jan. 23, 1937.

Ser. No. 416,982. BRO-KADE WALL FINISH CO., INC., Milwaukee, Wis. Filed Mar. 13, 1939.

Bro-Kade

For Painters' Stencils.
Claims use since May 1, 1938.

Ser. No. 417,003. ECONOMY FORMS CORPORATION, Des Moines, Iowa. Filed Mar. 13, 1939.

ECONOMY

For Metal Form Plates for Use in Concrete Structures During the Setting and Hardening Thereof, Comprising Spreader Tie Pullers, Pin tools, Plate Clamp Tools, Grout Guns, Drift Pin Tools, Locking Pins, and Cutting Nippers.
Claims use since Oct. 1, 1933.

Ser. No. 417,359. THE CLEVELAND PUNCH & SHEAR WORKS CO., Cleveland, Ohio. Filed Mar. 22, 1939. Under 10-year proviso.

CLEVELAND

For Punching Machines, Planing Machines, Shearing Machines, Bending Machines, Straightening Machines, Bending Rolls, Straightening Rolls, Flanging Clamps, Drilling Machines, Metal Working Presses, and Automatic Feeds for Metal Working Presses.
Claims use since Jan. 14, 1892.

Ser. No. 417,582. MACK MANUFACTURING CORPORATION, Long Island City, N. Y. Filed Mar. 28, 1939.

THERMODYNE

For Motor Vehicle Internal Combustion Engines.
Claims use since Dec. 6, 1938.

Ser. No. 417,623. OLIVER FARM EQUIPMENT COMPANY, Chicago, Ill. Filed Mar. 29, 1939.

Raydex Points

Disclaimer is made to the word "Points" and the representation of the plowshare apart from the mark.
For Plows, Plowshares, and Parts Thereof.
Claims use since Mar. 1, 1939.

Ser. No. 417,638. BONNEY FORGE & TOOL WORKS, Allentown, Pa. Filed Mar. 30, 1939.

BONALOY

For Mechanics' Hand Tools—Namely, Wrenches.
Claims use since Mar. 6, 1939.

Ser. No. 418,577. C. HOWARD HUNT PEN CO., Camden, N. J. Filed Apr. 22, 1939.

Linozips

For Linoleum Cutting Tools.
Claims use since Apr. 15, 1939.

Ser. No. 418,629. CHAMBON CORPORATION, Garfield, N. J. Filed Apr. 24, 1939.

For Web Printing Machines and Accessories.
Claims use since Mar. 22, 1939.

Ser. No. 418,655. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill. Filed Apr. 24, 1939.

AIR FLOW

For Windmills.
Claims use since Jan. 5, 1939.

Ser. No. 418,694. U. S. EXPANSION BOLT CO., York, Pa. Filed Apr. 25, 1939.

EXPERCUT

For Hand Saws.
Claims use since Aug. 15, 1938.

Ser. No. 418,695. U. S. EXPANSION BOLT CO., York, Pa. Filed Apr. 25, 1939.

SUPERCUT

For Hand Saws.
Claims use since Aug. 15, 1938.

Ser. No. 418,697. U. S. EXPANSION BOLT CO., York, Pa. Filed Apr. 25, 1939.

UTILICUT

For Hand Saws.
Claims use since Aug. 15, 1938.

Ser. No. 418,755. THE UNION FORK & HOE COMPANY, Columbus, Ohio. Filed Apr. 26, 1939.

BLULINE

For Hand Operated Tools—Namely, Axes, Cultivators, Cutters, Lettuce Cutters, Thistle, Dock and Weed Cutters, D-Handles for Tools, Drags, Manure Drags, Potato Drags, Phosphate Drags, Stone Drags, Edgers, Lawn Edgers, Turf Edgers, Forks, Light and Heavy Forks, Alfalfa Forks, Asphalt Forks, Baling Forks, Ballast Forks, Barley Forks, Beet Forks, Clover Forks, Coal Forks, Coal Scoop Forks, Coke Forks, Cottonseed Forks, English Digging Forks, Ensilage Forks, Fish Forks, Floral Spading Forks, Grain Forks, Hay Forks, Header Forks, Manure Forks, Mill Forks, Phosphate Forks, Potato Digging Forks, Pulp Forks, Shaving Forks, Spading Forks, Street Forks, Stone Forks, Stone Picker Forks, Tanners' Forks, Tar Forks, Vegetable Scoop Forks, Floral Garden Tools, Ice Chisels, Hoes, Beet Hoes, Blackland Hoes, Boys' Hoes, Corn Hoes, Cotton Hoes, Cotton Chopper Hoes, Cultivator Hoes, Eye Hoes, Field Hoes, Floral Hoes, Garden Hoes, Grading Hoes, Grape Hoes, Grub Hoes, Handled Sprouting Hoes, Handled Square Eye Hoes, Ladies' Hoes, Mattock Hoes, Meadow Hoes, Mortar Hoes, Mortar Mixer Hoes, Nursery Hoes, Nurserymen's Hoes, Onion Hoes, Planter Hoes, Rhode Island Hoes, Riveted Hoes, Scuffle Hoes, Sprouting Hoes, Strawberry Hoes, Street Hoes, Sugar Beet Hoes, Thinning Hoes, Tobacco Hoes, Warren Hoes, Weeding Hoes, Whirlwind Hoes, Clam Hooks, Garbage Hooks, Manure Hooks, Nurserymen's Hooks, Phosphate Hooks, Potato Hooks, Refuse Hooks, Stone Hooks, Lawn Combs, Pokers, Rakes, Asphalt Rakes, Brume Rakes, Clam Rakes, Curved Tooth Rakes, Dandelion Rakes, Flat Bow Rakes, Floral Rakes, Garden Rakes, Gravel Rakes, Lawn Rakes, Level Head Rakes, Malleable Rakes, Pine Needle Rakes, Road Rakes, Round Bow Rakes, Single Shank Rakes, Steel Rakes, Stone Rakes, Tar Rakes, Two-Man Rakes, Wire Lawn Rakes, Seedling Setters, Scoops, Scrapers, Barn Floor Scrapers, Chicken House Scrapers, Deck Scrapers, Floor Scrapers, Ship Scrapers, Shovels, Fire Shovels, Floral Shovels, Sidewalk Cleaners, Sod Lifters, Spades, Concrete Spades, Hand Spades, Tool Handles and Parts Thereof, Trowels, Garden Trowels, Nurserymen's Trowels, Transplanting Trowels, Weeders, Dandelion Weeders, Hand Weeders, Onion Weeders.
Claims use since Apr. 1, 1939.

CLASS 24

Laundry Appliances and Machines

Ser. No. 412,004. THE NATIONAL MARKING MACHINE COMPANY, Cincinnati, Ohio. Filed Oct. 24, 1938.

National

No claim is made to the representation of the name plate apart from the mark.
For Laundry Marking Machines.
Claims use since 1905.

Ser. No. 417,950. THE AMERICAN LAUNDRY MACHINERY COMPANY, Cincinnati, Ohio. Filed Apr. 7, 1939.

AIRCRAFT

For Drying Machines and More Particularly Machines Used in Laundries for the Drying of Laundry Articles and Used in Dry-Cleaning Plants for the Drying of Dry-Cleaning Work.
Claims use since June 16, 1937.

Ser. No. 417,954. S. F. BOWSER & COMPANY, INCORPORATED, Fort Wayne, Ind. Filed Apr. 7, 1939.

BE-R-WAY

For Dry Cleaning Machines.
Claims use since Mar. 22, 1939.

Ser. No. 418,760. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio. Filed Apr. 27, 1939.

AIRWAY

For Drying Machines for Laundry Articles and the Like.
Claims use since Feb. 1, 1934.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 394,222. CHRONO PARK METER, INC., Seattle, Wash. Filed June 18, 1937.

Park-O-Matic

For Automatic, Coin-Controlled Time Registering Parking Meters for Use on Public Highways, and Not as an Accessory to Automobiles.
Claims use since Oct. 3, 1936.

Ser. No. 412,817. RAYMOND KNAPP, Long Island City, N. Y. Filed Nov. 16, 1938.

Birdseye

For Cameras for Making Still and Motion Pictures, Eye Level and Reflex View Finders, Camera Accessories, Camera Equipment, Photographic Films, Tripods, Lenses for Cameras and Projectors, Shutters, Exposure Meters, Attachments for Synchronizing Shutters and Flash Bulbs, Moving and Still Projection Screens, Photographic Flash Bulbs, Negative and Print Dryers, and Light Filters Used in the Photographic and Motion Picture Industry.
Claims use since Oct. 15, 1938.

Ser. No. 414,724. THE BROWN INSTRUMENT COMPANY, Philadelphia, Pa. Filed June 12, 1939.

RADIAMATIC

For Instruments for Measuring Radiant Energy.
Claims use since Sept. 29, 1937.

Ser. No. 416,767. ADAM HILGER LIMITED, London, England. Filed Mar. 7, 1939.

DEXRAE

For X-Ray Apparatus for Industrial Purposes.
Claims use since July, 1937.

Ser. No. 416,817. STEPHEN M. WAGNER, INCORPORATED, St. Louis, Mo. Filed Mar. 8, 1939.

Semi-Scope

For Sights.
Claims use since Oct. 20, 1938.

Ser. No. 417,455. GENERAL SCIENTIFIC CORPORATION, Chicago, Ill. Filed Mar. 24, 1939.

SCIENAR

For Assembled Lenses and Mountings Therefor Which are Sold as Units for Use in Cameras, Telescopes, Rifle Sights, and Projectors.
Claims use since Mar. 1, 1939.

Ser. No. 417,770. THE NATIONAL PATTERN CO., INC., New York, N. Y. Filed Apr. 1, 1939.

ALL ONE

For Garment Patterns.
Claims use since Jan. 15, 1939.

Ser. No. 417,771. THE NATIONAL PATTERN CO. INC., New York, N. Y. Filed Apr. 1, 1939.

NATIONAL
THE READY TO CUT PATTERN

Applicant disclaims the term "The Ready to Cut Pattern" and the illustrations of the garment pattern apart from the mark.
For Garment Patterns.
Claims use since Nov. 11, 1938.

Ser. No. 418,692. WILLIAM LOUIS ROESSNER, Chicago, Ill. Filed Apr. 25, 1939.

EYE-EEZ

For Motion Picture Screens.
Claims use since Apr. 19, 1939.

Ser. No. 418,839. KEYSTONE MFG. CO., Boston, Mass. Filed Apr. 28, 1939.

KEYSTONE

For Photographic Apparatus and Supplies—Namely, Cameras, Carrying Cases for Cameras, Projectors, Projection Screens, Films, Film Splicing Outfits Including Film Splicer and Cement, Film Holding Containers and Reels, Film Titlers, Film Editors, Film Rewinders, Picture Slide Makers, and Photographic and Projection Lenses.
Claims use since June, 1919.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 418,918. CIRO PEARLS, LIMITED, London, England. Filed May 1, 1939.

SENACUT

For Precious and Semi-Precious Stones and Imitations Thereof.
Claims use since Apr. 4, 1938.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 412,057. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass. Filed Oct. 26, 1938.

COMMUNITY CHINA

The word "China" is disclaimed apart from the mark.
For Plates, Cups, Saucers, Bowls, Pitchers, Jars, Vases, and Platters Made of Porcelain.
Claims use since Oct. 4, 1938.

CLASS 31

Filters and Refrigerators

Ser. No. 401,021. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Dec. 18, 1937.

COLD-SPEEDER

For Condensers of Refrigerating Systems.
Claims use since Nov. 29, 1937.

CLASS 32

Furniture and Upholstery

Ser. No. 418,901. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill. Filed Apr. 29, 1939.



Applicant disclaims "Built-up Center" and the representation of the mattress apart from the mark.
For Mattresses.
Claims use since Sept. 15, 1938.

Ser. No. 418,928. LA FLEX PRODUCTS, Mishawaka, Ind. Filed May 1, 1939.

La-Flex

For Sleeping Pillows.
Claims use since Apr. 14, 1939.

Ser. No. 419,426. INSULATION DEVELOPMENT CORPORATION, Monroe, Mich. Filed May 15, 1939.

WIREFLEX

For Spring Units for Use in Seat Cushions.
Claims use since May 9, 1939.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

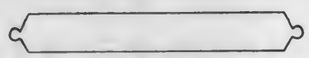
Ser. No. 416,587. THE TAPPAN STOVE COMPANY, Mansfield, Ohio. Filed Mar. 1, 1939.

VISIGUIDE

For Attachable Indicating Charts for Use with Cooking Apparatus for Indicating the Temperature at Which and the Time for Which Different Foods Should be Cooked.
Claims use since December, 1938.

Ser. No. 417,851. REFLECTORS, INC., Philadelphia, Pa. Filed Apr. 4, 1939.

"REFLECTO-DUCT"



The representation of the goods and the word "Duct" are disclaimed apart from the mark.
For Lighting Reflectors.
Claims use since February, 1939.

Ser. No. 418,008. JULIUS KOHN, doing business as The Imco Co., New York, N. Y. Filed Apr. 8, 1939.

TORNADO

For Pyrophoric Cigarette and Cigar Lighters.
Claims use since Dec. 1, 1938.

Ser. No. 418,314. SHOOT-A-LITE CORPORATION, New York, N. Y. Filed Apr. 15, 1939.

SHOOT-A-LITE

For Pyrophoric Lighters.
Claims use since 1917.

Ser. No. 418,396. AIR CONTROL PRODUCTS, INC., Muskegon, Mich. Filed Apr. 17, 1939.

AIR CONTROL

Applicant disclaims the words "Air Control" except as shown.
For Registers, Grilles, and Damper Control Sets, All for Use in Air Conditioning Systems.
Claims use since Mar. 14, 1939.

Ser. No. 418,715. HYDRAULIC MFG. COMPANY, Troy, Ill. Filed Apr. 26, 1939.

Troyola

For Hydraulic Stokers.
Claims use since Apr. 1, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 418,828. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 28, 1939.

HI-MILER

For Tires Composed Wholly or Principally of Rubber, and Inner Tubes Therefor.
Claims use since Mar. 1, 1939.

Ser. No. 419,124. RAYBESTOS-MANHATTAN, INC., Passaic, N. J. Filed May 5, 1939.

Ray-lok

For Clutch Facings.
Claims use since Apr. 17, 1939.

CLASS 37

Paper and Stationery

Ser. No. 402,656. SUPREME SANCTORUM ANCIENT MYSTIC ORDER OF SAMARITANS, INC., Niagara Falls, N. Y. Filed Feb. 3, 1938.



For Rituals, Transfer Certificates, Withdrawal Cards, Dismissal Certificates, Pass Cards, and Officers' Commissions in the Nature of Blank Forms.
Claims use since Dec. 1, 1936.

Ser. No. 412,400. WESTERN COLLEGE BOOKSTORE ASSOCIATION, Palo Alto, Calif. Filed Nov. 4, 1938.



For Loose Leaf Binders and Fillers, Notebooks, Thumb-Tacks, Paper Clips and Writing Paper.
Claims use since Sept. 1, 1930.

Ser. No. 415,060. THE UNION PAPER AND TWINE COMPANY, Cleveland, Ohio. Filed Jan. 20, 1939.

MIUSA

For Toilet Paper and Sanitary Paper Towels.
Claims use since Feb. 15, 1915.

Ser. No. 415,062. THE UNION PAPER AND TWINE COMPANY, Cleveland, Ohio. Filed Jan. 20, 1939.

SOFTY

For Toilet Paper.
Claims use since May 17, 1938.

Ser. No. 415,319. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Jan. 28, 1939.

ONE OF THE STRATHMORE STAPLE PAPERS

The words "Staple Papers" are disclaimed apart from the mark. Applicant is the owner of Reg. No. 29,613, Mar. 2, 1897, (renewed) and Reg. No. 92,100, June 13, 1913, effected under the 10-year proviso.
For Writing and Printing Paper.
Claims use since Dec. 15, 1938.

Ser. No. 416,604. GAW-O'HARA ENVELOPE CO., Chicago, Ill. Filed Mar. 2, 1939.

Glow-Tone

For Envelopes and Writing Paper.
Claims use since Dec. 15, 1936.

Ser. No. 419,051. UNIVERSAL MATCH CORPORATION, St. Louis, Mo. Filed May 3, 1939.

Adverap

For Wrappers for Cigarette Packages.
Claims use since Jan. 10, 1939.

Ser. No. 419,133. WILSON-JONES COMPANY, Chicago, Ill. Filed May 5, 1939.

TALLY HO

For Loose Leaf Binders.
Claims use since May 1, 1933.

CLASS 38

Prints and Publications

Ser. No. 415,907. THE MINT-O-SEALS CO., San Francisco, Calif. Filed Feb. 10, 1939.

MINT-O-SEALS

The word "Seals" is disclaimed apart from the mark.
For Facsimile Reproductions of Historical Coins and a Combined History and Album for the Preservation of the Same.
Claims use since Sept. 26, 1938.

Ser. No. 416,242. WILLIAM V. BARLOW, doing business as The Jitterbug Co., Jacksonville, Fla. Filed Feb. 20, 1939.

"JITTERBUG"

For Printed Cards and Forms Sold as Such.
Claims use since Oct. 15, 1938.

Ser. No. 416,881. UNITED STATES NEWS PUBLISHING CORPORATION, Washington, D. C. Filed Mar. 9, 1939.

News within the News

For Column for Weekly Newspaper.
Claims use since Feb. 20, 1939.

Ser. No. 417,799. THE CHICAGO LEDGER PUBLISHING COMPANY, INC., Chicago, Ill. Filed Apr. 3, 1939.

Chicago News-Ledger

The word "Chicago" is disclaimed apart from the mark.
For Newspaper.
Claims use since Aug. 27, 1938.

Ser. No. 418,439. PAUL M. HAHLAN, San Francisco, Calif. Filed Apr. 19, 1939.

GO-CHART

For Column Appearing Periodically in Newspapers.
Claims use since Feb. 12, 1939.

CLASS 39

Clothing

Ser. No. 403,674. BANGOR MILLS, INC., Bangor, Pa. Filed Mar. 4, 1938.

Magic Symphony

For Ladies' Dresses.
Claims use since Apr. 1, 1937.

Ser. No. 405,395. J. H. KIMBALL, INC., New York, N. Y. Filed Apr. 18, 1938.



The mark consists of the monogram "J H K".
For Handkerchiefs.
Claims use since May 20, 1937.

Ser. No. 405,510. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Apr. 20, 1938.

Olympic

For Bathing Caps of Rubber.
Claims use since September, 1932.

Ser. No. 409,940. RICHMOND HOSIERY MILLS, Rossville, Ga., assignor to Cherokee Hosiery Mills, Inc., Cleveland, Tenn., a corporation. Filed Aug. 24, 1938.

Cherokee

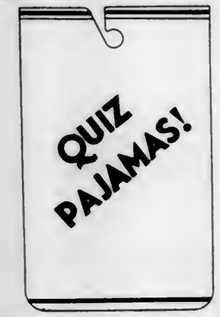
Applicant is the owner of registration Number 110,239, registered May 9, 1916.
For Hosiery.
Claims use since Nov. 1, 1910.

Ser. No. 412,258. HUT NECKWEAR CO., INC., New York, N. Y. Filed Nov. 1, 1938.

Blue Grass

For Neckties and Cravats.
Claims use since Oct. 25, 1938.

Ser. No. 412,814. KAYLON, INC., New York, N. Y. Filed Nov. 16, 1938.



The word "Pajamas" is disclaimed apart from the mark. The label per se is disclaimed.
For Men's, Women's, and Children's Pajamas.
Claims use since Sept. 1, 1938.

Ser. No. 413,794. MARJORIE MONTGOMERY, INC., Los Angeles, Calif. Filed Dec. 13, 1938.

CALI-CRUISE

The word "Cruise" is disclaimed apart from the mark. The wording on the drawing is "Cali-Cruise".

For Dresses, Brassières, and Blouse and Skirt Combinations.

Claims use since Nov. 10, 1938.

Ser. No. 414,222. HANSEN GLOVE CORPORATION, Milwaukee, Wis. Filed Dec. 27, 1938.

Stadium

For Men's Leather Gloves.
Claims use since Dec. 8, 1938.

Ser. No. 414,847. VASSAR COMPANY, Chicago, Ill. Filed Jan. 14, 1939.

Seal Skin

For Men's, Women's, and Children's Swim Suits, Swim Trunks, and Hosiery.
Claims use since Sept. 15, 1938.

Ser. No. 416,520. SALFAIR, INC., New York, N. Y. Filed Feb. 28, 1939.

FEATHERFLUFF FINISH

The word "Finish" apart from the mark shown is disclaimed.

For Women's and Children's Hats, Berets, and Tam-O-Shanters.

Claims use since Dec. 20, 1937.

Ser. No. 416,692. EUGENE LISH, New York, N. Y. Filed Mar. 4, 1939.

Glamour Hats

The word "Hats" apart from the mark shown is disclaimed.

For Women's and Children's Hats, Berets, and Tam-O-Shanters.

Claims use since June 1, 1938.

Ser. No. 417,381. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Filed Mar. 22, 1939.

Marjorie Mae

For Juniors', Misses', and Young Women's Dresses, Jackets, Skirts, Suits, and Coats.
Claims use since Jan. 31, 1939.

Ser. No. 417,651. NATIONAL SHOE STORES, INC., New York, N. Y. Filed Mar. 30, 1939.

FLEX VOGUE

The word "Vogue" is disclaimed apart from the mark.
For Hosiery.
Claims use since Jan. 2, 1939.

Ser. No. 417,677. LA REINE SPORTSWEAR, INC., New York, N. Y. Filed Mar. 30, 1939.

DESIGNED FOR Hollywood Skirt BY LA-REINE

Applicant disclaims the words "Designed By" and "Hollywood Skirt" apart from the mark.
For Ladies' and Misses' Dresses and Skirts.
Claims use since July, 1938.

Ser. No. 417,696. LANSBURGH & BRO., Washington, D. C. Filed Mar. 31, 1939.

CHEVY BLUE

The word "Blue" is disclaimed except as shown.
For Boys' Clothing—Namely, Suits and Separate Trousers, Knickers, and Outer Shorts.
Claims use since Mar. 24, 1939.

Ser. No. 417,747. COLE OF CALIFORNIA, Los Angeles, Calif. Filed Apr. 1, 1939.

CAN-CAN

For Shoes of Fabric and of Combinations of Fabric and Leather.
Claims use since Mar. 8, 1939.

Ser. No. 417,805. HAROLD W. GUTKOWSKY, doing business as Star Garter Co., Chicago, Ill. Filed Apr. 3, 1939.

CONTAX FIGURE CONTROL

The words "Figure Control" and the picture of a girdle and brassière are disclaimed apart from the mark.
For Brassières, Foundation Garments, Girdles, and Garter Belts.
Claims use since Feb. 10, 1939.

Ser. No. 418,002. FRANKLIN SIMON & CO., INC., New York, N. Y. Filed Apr. 8, 1939.

TRI-PORTIONED

For Women's Hosiery.
Claims use since Mar. 28, 1939.

Ser. No. 418,077. UNION UNDERWEAR CO., Frankfort, Ky. Filed Apr. 10, 1939.

GRIPPER

For Men's and Boys' Shorts.
Claims use since June 10, 1938.

Ser. No. 418,203. KAYLON, INC., New York, N. Y. Filed Apr. 13, 1939.

SLEEP as You like it!

The outline of the label is disclaimed.
For Men's, Women's, and Children's Pajamas.
Claims use since August, 1938.

Ser. No. 418,338. HARZFELD'S, INC., Kansas City, Mo. Filed Apr. 17, 1939.

LESTERFIELD

For Women's and Misses' Suits, Coats, Sweaters, Skirts, and Jackets.
Claims use since Mar. 25, 1939.

Ser. No. 418,446. THE LIMA CORD SOLE AND HEEL COMPANY, Lima, Ohio. Filed Apr. 19, 1939.

NEO-CORD

No claim is made to the word "Cord".
For Soles and Heels of Rubber or Rubber and Fibrous Material.
Claims use since Nov. 8, 1937.

Ser. No. 418,498. TRENT B. TERRY, doing business as Monticello Shirt Company, Charlottesville, Va. Filed Apr. 20, 1939.

MINO

For Men's and Boys' Underwear.
Claims use since Jan. 3, 1938.

Ser. No. 418,499. LOUIS TUTTMAN & SON, New York, N. Y. Filed Apr. 20, 1939.

TING-A-LING TOGS

No claim is made to the word "Togs" apart from the mark.
For Children's and Infants' Suits, Dresses, Coats, and Rompers, and Gertrudes.
Claims use since Apr. 1, 1939.

Ser. No. 418,560. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Apr. 22, 1939.

BABYFAIR

For Bibs, Baby Sacques, Baby Slippers, and Bathrobes.
Claims use since Dec. 15, 1938.

Ser. No. 418,589. MURRAY HAMBURGER, INC., New York, N. Y. Filed Apr. 22, 1939.

"sophisticated silhouette"

For Women's and Misses' Dresses, Blouses, Costumes, Gowns, Suits, and Coats.
Claims use since July 19, 1938.

Ser. No. 418,615. S. WEITZ & COMPANY, INC., Cleveland, Ohio. Filed Apr. 22, 1939.

THE TRI-CHANGER

For Men's and Boys' Top Coats and Overcoats.
Claims use since Jan. 3, 1938.

Ser. No. 418,636. GOLDFARB & BINDLER, INC., New York, N. Y. Filed Apr. 24, 1939.

MY DARLING DAUGHTER

For Ladies' and Children's Dresses and Coats.
Claims use since Mar. 2, 1939.

Ser. No. 418,643. R. LOWENBAUM MANUFACTURING CO., St. Louis, Mo. Filed Apr. 24, 1939.

MerryDale

For Ladies' and Misses' Frocks and House and Street Dresses.
Claims use since Apr. 1, 1939.

Ser. No. 418,680. DURHAM HOSIERY MILLS, Durham, N. C. Filed Apr. 25, 1939.

GoldenWeb

For Hosiery.
Claims use since July, 1925.

Ser. No. 418,706. THE ENRO SHIRT COMPANY, Louisville, Ky. Filed Apr. 26, 1939.

"Drury Lane"

For Men's Dress and Sport Shirts and Pajamas.
Claims use since Dec. 18, 1933.

Ser. No. 418,712. HUGH HOSIERY COMPANY, Concord, N. C. Filed Apr. 26, 1939.

Sweet Sue

For Hosiery.
Claims use since Apr. 13, 1939.

Ser. No. 418,788. NORTHMONT HOSIERY CORPORATION, Reading, Pa. Filed Apr. 27, 1939.

"Tumbleweed"

For Hosiery.
Claims use since Mar. 16, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 415,652. K & K PRODUCT, Chicago, Ill. Filed Feb. 6, 1939.

POLKA SPIDER WEB

The words "Spider Web" are disclaimed apart from the mark.
For Holder or Frame for Lacework and the Like.
Claims use since Sept. 26, 1938.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 407,155. NEW JAUNTY SPORTSWEAR, INC., New York, N. Y. Filed June 6, 1938.



For Silk, Woolen, Rayon, Cotton, and Linen Cloth.
Claims use since Nov. 15, 1937.

Ser. No. 410,924. THE RILEY COMPANY, INC., New York, N. Y. Filed Sept. 23, 1938.

Bembador

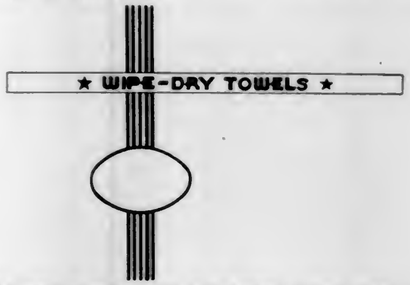
For Textile Piece Goods of Cotton and Rayon Suitable for Use in Articles of Apparel, Including Neckwear, Robes, and Scarfs.
Claims use since June 26, 1938.

Ser. No. 412,231. MANDEL SCHWECHTER, doing business as Prime Needleart Co., Chicago, Ill. Filed Oct. 31, 1938.

Prime

For Sheets, Pillow Cases, Table Cloths, Doilies, Scarfs, Center Pieces, Towels, Bedspreads, Bed Sheets, Window Curtains.
Claims use since Sept. 1, 1927.

Ser. No. 412,850. BOOTT MILLS, Lowell, Mass. Filed Nov. 17, 1938.



No claim is made to the words "Wipe-Dry" or "Towels" apart from the mark.
For Towels.
Claims use since May 28, 1938.

Ser. No. 413,735. PURITAN PIECE DYE WORKS, Paterson, N. J. Filed Dec. 12, 1938.

Vita-Perm FINISH

No claim is made to the words "Perm" and "Finish" apart from the mark.
For Cotton, Rayon Acetate, Silk, Linen, Flax, Wool, Synthetic Wool, Alpaca, and Jute Piece Goods Manufactured and Sold by It.
Claims use since Nov. 19, 1938.

Ser. No. 415,704. COMTOIR DES TEXTILES ARTIFICIELS SOCIÉTÉ ANONYME, Paris, France. Filed Feb. 7, 1939.

CIDALBA

For Textile Fabrics and Piece Goods of Silk, Wool, Cotton, Linen, and Mixtures Thereof, Table Linen and Bed Linen.
Claims use since Dec. 21, 1934.

Ser. No. 416,244. BELL TEXTILE COMPANY, New York, N. Y. Filed Feb. 20, 1939.

TIME-TESTED



The words "Time-Tested" are disclaimed apart from the mark.
For Sheets and Pillow Cases.
Claims use since Aug. 30, 1938.

Ser. No. 416,845. FAITH MILLS, INC., Averill Park, N. Y. Filed Mar. 9, 1939.



No claim is made to the word "Fabric" apart from the mark.
For Knit Wool, Wool Mixed Cloth, Wool and Rayon Cloth, Wool and Cotton Cloth, Wool and Worsted Cloth, Cloth Made from Wool, Mohair, Alpaca, and Camel Hair Suitable for Making Coatings, Blankets, Bathrobes, and Sportswear.
Claims use since October, 1935.

Ser. No. 417,299. PRINCETON WORSTED MILLS, INC., Trenton, N. J. Filed Mar. 20, 1939.



For Worsted and Woolen Piece Goods.
Claims use since Aug. 31, 1938.

Ser. No. 417,855. UTILITY DRESS CO., New York, N. Y. Filed Apr. 4, 1939.

LACEY LADY

The word "Lacey" is disclaimed apart from the mark.
For Piece Goods of Cotton, Rayon, and Combinations Thereof Used in the Manufacture of Ladies' Dresses and Blouses.
Claims use since Mar. 8, 1938.

Ser. No. 417,969. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y. Filed Apr. 7, 1939.

PoiretteCharmeuse

The word "Charmeuse" is disclaimed apart from the mark.
For Fabrics in the Piece of Cotton, Silk, Rayon, Wool, Linen and/or Combinations Thereof.
Claims use since Jan. 4, 1938.

Ser. No. 418,162. NATIONAL FABRICS CORPORATION, New York, N. Y. Filed Apr. 12, 1939.



For Textile Fabrics in the Piece—Namely, Silk Fabrics, Rayon Fabrics, Fabrics Consisting of a Mixture of Rayon and Silk, and Cotton, Woolen, or Linen Fabrics.
Claims use since Mar. 28, 1939.

Ser. No. 418,789. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed Apr. 27, 1939.

NODTIME

For Blankets, Blanket Cloth, and Piece Goods of Cotton, Wool, and/or Mixtures of Cotton and Wool.
Claims use since Jan. 15, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 413,460. SURGICAL SUPPLY CORPORATION, New York, N. Y. Filed Dec. 3, 1938.

SUSCO

Applicant disclaims the representation of the surgical instrument except as used in the mark herein.

For Physicians', Surgeons', and Dentists' Instruments—Namely, Forceps, Scissors, Retractors, Knives, Applicators, Illuminated Diagnostic Instruments, Hypodermic Needles, Hypodermic Syringes, and Instruments Used in Eye, Ear, Nasal, Mouth, Throat, Rectal, Urethreal and Gynecological Operations; Hospital, Examination Room and Operating Room Furniture—Namely, Examining Tables and Chairs, Instrument Cabinets, Dressing and Hospital Utility Storage Cabinets; Chemical Glassware, Graduates, Bottles, Funnels, Thermometers, Flasks, Medicine Droppers, Medicine Glasses, Nursing Bottles, Pipettes, Burettes and Hospital Utility Jars; Surgeons' Rubber Gloves; Hospital Rubber Goods—Namely, Air Mattresses, Pillows, Ice Caps, Water Bottles, Catheters, Rectal Tubes, Colon Tubes, Invalid Cushions, Crutch Tips, Penrose Tubing, Door Silencers, Finger Cots, Nipples, Bottle Caps, Rubbing Tubing, Syringes, Tourniquets and Sheeting; Sick Room Supplies, Not Including Chemicals and Medicines—Namely, Wheel Chairs, Bedtrays, and Commodes.

Claims use since Feb. 5, 1936.

Ser. No. 418,794. LUCIA M. SZARLIP, Toledo, Ohio. Filed Apr. 27, 1939.

D. R. L.

For Cementitious Composition Especially for Repair of Dentures.

Claims use since Jan. 2, 1939.

Ser. No. 419,061. THE GAFFORD PHARMACAL CO., Cleveland Ohio. Filed May 4, 1939.

FILTAIRE

For Nasal Respirators.

Claims use since Jan. 26, 1939.

Ser. No. 419,093. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa. Filed May 4, 1939.

VERI-CHROME

Applicant disclaims the word "Chrome" apart from the mark.

For Dental Supplies—Namely, Artificial Teeth.

Claims use since Apr. 25, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 417,278. GENERAL BEVERAGE CORP., Springfield, Mass. Filed Mar. 20, 1939.

ORANGE BALL

The word "Orange" is disclaimed apart from the mark.

For Orange Beverages and Syrups for the Same.

Claims use since Mar. 10, 1939.

Ser. No. 418,050. MIN-AQUA CO., INC., Caldwell Township, N. J. Filed Apr. 10, 1939.

MIN-AQUA

The word "Aqua" is disclaimed apart from the mark.

For Nonalcoholic, Maltless, Noncereal Beverages Sold as Soft Drinks—Namely, Natural Alkaline Mineral Water, and Mineral Club Soda.

Claims use since Apr. 11, 1938.

Ser. No. 418,187. M. A. & T. S. CHRISTIE, Rochester, N. Y. Filed Apr. 13, 1939.

Co-kay

For Nonalcoholic Maltless Concentrate for Cola Syrup and the Beverage Made from It.

Claims use since Apr. 7, 1939.

Ser. No. 419,174. BIRELEY'S INC., Hollywood, Calif. Filed May 8, 1939.

Bireley's

For Nonalcoholic Beverages, Fruit Juices, and Fruit Juice Products for Beverage Purposes.

Claims use since Apr. 7, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 406,611. THE J. R. WATKINS COMPANY, Winona, Minn. Filed May 21, 1938.



J. R. Watkins

The signature and portrait are those of J. R. Watkins, deceased. Applicant is the owner of trade-mark registration No. 253,795, dated Mar. 5, 1929, No. 207,040 dated Dec. 15, 1925, No. 219,020 dated Oct. 5, 1926, and 202,677 dated Sept. 1, 1925.

For Baking Powder, Cocoa, Chocolate, Coffee, Powdered Milk Mixtures for Beverages, Cocoanut and Cocoanut Desserts; Flavors, Imitation Flavors and Extracts for Flavoring Foods; Spices, Condiments, Seasonings and Seasoning Compounds—Namely, Garlic Seasoning, Onion Seasoning, Poultry Seasoning, Celery Salt, Chili Powder, Dry and Prepared Mustard, Paprika, Pepper, and Sage; Fruit Pectin; Desserts and Ingredients of Desserts of the Gelatine or Pudding Variety; and Candy Confections.

Claims use since Dec. 31, 1913.

Ser. No. 407,710. APPEAL INC., Spokane, Wash. Filed June 21, 1938.



The word "Bread" is disclaimed apart from the mark.

For Bread.

Claims use since Sept. 28, 1937.

Ser. No. 410,278. WAPLES PLATTER CO., Fort Worth, Tex. Filed Sept. 3, 1938.

CHEERFUL CUP

Waples-Platter Company

Applicant is the owner of registration Number 355,785, granted Mar. 29, 1938, under the 10-year proviso.

For Coffee.

Claims use since Aug. 22, 1938.

Ser. No. 410,279. WAPLES PLATTER CO., Fort Worth, Tex. Filed Sept. 3, 1938.

FIRE SIDE

Waples-Platter Company

Applicant is the owner of registration Number 355,785, granted Mar. 29, 1938, under the 10-year proviso.

For Coffee.

Claims use since Aug. 22, 1938.

Ser. No. 412,935. AUSTIN, NICHOLS & CO., INCORPORATED, Brooklyn, N. Y. Filed Nov. 19, 1938.

SUNBEAM

For Fresh Frozen Berries, Fruits, and Vegetables; Canned Berries; Canned, Dried, and Bottled Fruits; Dried and Preserved Figs; Currants, Dates, Prunes, Raisins, Citron, and Citrus Peels; Canned, Dried and Bottled Vegetables, Including "Kernelkorn", Canned Corn; Canned Mixed Fresh Vegetable Salad; Canned, Dried Smoked and Salt Fish; Canned Sea Food—Namely, Shrimp, Clams, Crab Meat and Lobster; Canned Fish Roe; Canned Soups; Canned Condensed and Evaporated Milk; Canned Fruit and Vegetable Juices for Food Purposes; Canned Mushrooms; Canned Hearts of Celery; Canned Hearts of Artichokes; Canned Pork and Beans; Canned Baked Beans; Sauerkraut in Cans, Kits, Kegs and Barrels and Canned Sauerkraut Juice; Canned Tomato Puree; Canned Apple Sauce; Canned and Bottled Cranberry Sauce; Canned Rhubarb; Canned Spaghetti in Tomato Sauce; Meats Packed in Glass Jars—Namely, Frankfurts, Canned and Bottled Poultry; Fresh Cranberries; Glace Fruits; Shelled, Salted, and Sugar Coated Nuts, and Nuts in Their Natural State; Alimentary Paste Products—Namely, Spaghetti, Macaroni, Noodles, Vermicelli, Tiny Egg Noodles, Egg Noodle Barley, Egg Farfals, Alphabets, Elbow Spaghetti, and Elbow Macaroni; Butter, Cheese, Fruit Preserves, Jellies; Fruit Syrups for Food Purposes; Fountain Fruits; Pickles; Olives; Sweet Relish and Pepper Relish; Pickled Fruits; Pickled Melon and Melon Rind; Pickled Vegetables; Chow Chow; Pickled Onions; Pickled Peppers; Piemientos; Food Sauces—Namely, Cocktail, Chop Suey, Worcestershire, Chili, Hot Sauce and Spaghetti Sauce; "Vegessence" Seasoning, a Liquid Vegetable Seasoning for Soups and Similar Foods; Cherries (Maraschino Style); Maple Syrup, Pancake Syrup; Molasses; Honey, Mince Meats; Salad Dressing, Mayonnaise; Sandwich Spread; Fig Spread; Peanut Butter; Apple Butter; Mustard; Horseradish; Vinegar; Tomato Catsup; Marshmallow Creme; Food Flavoring Extracts; Seasonings for Flavoring Soups, Sauces, Gravies, Meat and Vegetable Dishes, and Spices; Dessert Powders, Gelatine Dessert Powders, Preparations for Making Puddings; Cereals—Namely, Farina, Tapioca, Rice Cereal, Hominy

Grits, Rolled Oats, Cream (Wheat) Cereal, and Corn Flakes; Rice; Soup Mix; Corn Starch; Shred Cocoanut; Cracker Meal; Tea; Cocoa; Coffee; Baking Powder; Vegetable Shortening; Dog Food; Bird Seed; Malted Milk Powder; Salad Oil; Olive Oil; Canned Chicken a la King; Canned Chicken and Egg Noodle Dinner; Bouillon Cubes; Ravioli in Glass Jars; Fruit Cake; Welsh Rarebit; Malt Extract for Food Purposes.

Claims use since Oct. 25, 1935, on fresh frozen berries, fruits and vegetables; since Apr. 30, 1890, on remaining goods.

Ser. No. 415,674. TEXAS STAR FLOUR MILLS, Galveston, Tex. Filed Feb. 6, 1939.

TEXAS STAR'S



Applicant is the owner of trade-mark registrations Nos. 231,399 dated Aug. 16, 1927, 148,717 dated Nov. 22, 1921, and 193,170 dated Dec. 23, 1924. The word "Texas" is disclaimed apart from the mark.

For Wheat Flour, All Wheat Flour, Cake Flour, Pancake Flour, Farina, Rolled Oats, Rice.

Claims use since Jan. 1, 1939, the words "Texas Star" with the star design having been used since 1877, the words "Texas Star" with the star and angel design since 1888, and the word "Amaesse" with the angel design since 1915.

Ser. No. 415,795. POLIWODA & ANASKY, Calverton, L. I., N. Y. Filed Feb. 8, 1939.

ACE



Applicant disclaims the pictorial representation of the goods apart from the mark.

For Potatoes.

Claims use since November, 1938.

Ser. No. 416,188. GEO. A. HORMEL & COMPANY, Austin, Minn. Filed Feb. 18, 1939.

Spic

For Canned Luncheon Meat—Viz., a Kind of Cooked Meat Loaf.

Claims use since Feb. 7, 1939.

Ser. No. 416,722. COW & GATE (CANADA) LIMITED, Gananoque, Ontario, Canada. Filed Mar. 6, 1939.

MILCRITE

For Product for Bakery Use Comprising Skimmed Milk Powder to Which Has Been Added a Small Quantity of a Food Ingredient Containing Proteins, Carbohydrates, Edible Mineral Salts, and an Organic Acid Such as Lactic Acid.

Claims use since July 20, 1938.

Ser. No. 416,751. UNION SALES CORPORATION, Columbus, Ind. Filed Mar. 6, 1939.

DEMADEX

For Confectioners' Corn Syrup Containing Dextrins, Maltose, and Dextrose.

Claims use since Feb. 7, 1939.

Ser. No. 416,754. WALTER E. WEISLER, doing business as The Maysett Co., Massillon, Ohio. Filed Mar. 6, 1939.



For Specially Prepared Food Product—Namely, a Fried Flour Mixture Commonly Known as Dough and Rolled Out and Cut Into Strips and/or Chip Form.

Claims use since Jan. 14, 1939.

Ser. No. 416,977. WALTERS' "PALM" TOFFEE LIMITED, doing business as Palm Works, London, England. Filed Mar. 11, 1939.

PESECH

For Toffee and Sugar Confectionery—Namely, Candy and Sweet Chocolate.

Claims use since Feb. 3, 1933.

Ser. No. 417,172. HOLLAND FOOD CORPORATION, New York, N. Y. Filed Mar. 17, 1939.

HUM

Applicant is the owner of trade-mark registration No. 170,862.

For Cheese.

Claims use since Apr. 15, 1936.

Ser. No. 417,797. THE CANDY HOUSE, Seattle, Wash. Filed Apr. 3, 1939.

THE DAM BAR

Applicant disclaims the word "Bar" apart from the mark.

For Candy Bars.

Claims use since Jan. 14, 1938.

Ser. No. 417,809. MAINE STATE PACKING COMPANY, INC., Boothbay Harbor, Maine. Filed Apr. 3, 1939.

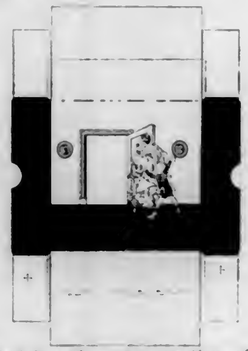
FARMERS' BRAND

The word "Brand" is disclaimed apart from the mark.

For Vacuum Packed Shoestring Potatoes.

Claims use since Jan. 10, 1939.

Ser. No. 417,867. THE BORDEN COMPANY, New York, N. Y. Filed Apr. 5, 1939.



Applicant disclaims the representation of the carton apart from the mark.

For Candies With Pure Malted Milk Centers, and Milk Chocolate Coating.

Claims use since Dec. 15, 1938.

Ser. No. 418,013. NATIONAL CANDY CO., INC., St. Louis, Mo. Filed Apr. 8, 1939.

TRIM-ETTES

For Candy Confection for Use in Decorating Cakes, Cookies, Pies, and Other Foods.

Claims use since May 18, 1933.

Ser. No. 418,095. THE DUNK DONUT CO., Cleveland, Ohio. Filed Apr. 11, 1939.



Applicant disclaims the representation of the doughnut apart from the mark.

For Crullers, Doughnuts, and Fried Cakes.

Claims use since Mar. 1, 1936.

Ser. No. 418,096. THE EUCLID CANDY CO. OF CALIFORNIA, INC., San Francisco, Calif. Filed Apr. 11, 1939.



No claim is made to the representation of a label apart from the mark.

For Candy Bars.

Claims use since Apr. 12, 1936.

Ser. No. 418,191. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla. Filed Apr. 13, 1939.

RICHTEST

For Canned Fruits, and Canned Fruit Juices for Food Purposes.

Claims use since Mar. 16, 1939.

Ser. No. 418,223. WINDSOR PRODUCTS CO. INC., Bridgeton, N. J. Filed Apr. 13, 1939.

VANGUARD

For Tomato Catsup.

Claims use since Mar. 1, 1939.

Ser. No. 418,227. SESSIONS COMPANY, INC., Enterprise, Ala. Filed Apr. 12, 1939.

NUTTY KRUSH

The word "Nutty" is disclaimed apart from the mark.
For Peanut Butter.
Claims use since Mar. 1, 1939.

Ser. No. 418,236. THE BORDEN COMPANY, New York, N. Y. Filed Apr. 14, 1939.

DUKEES

For Popcorn Coated With Cheese Flavoring.
Claims use since Jan. 4, 1939.

Ser. No. 418,340. HOMELIKE CANNING & PACKING CO., San Francisco, Calif. Filed Apr. 17, 1939.

HOMELIKE

Applicant is the owner of trade-mark registration Nos. 103,000 and 133,981.
For Canned Fruits, Canned Vegetables, Canned Fish, Canned Fruit Juices for Food Purposes, Canned Vegetable Juices for Food Purposes and Dried Fruits.
Claims use since 1913 for canned fish, since 1914 for canned fruits and dried fruits, since March, 1939, for canned vegetables and canned fruit and vegetable juices.

Ser. No. 418,375. TYRRELL & GARTH, INC., also doing business as the Palm Valley Canning Company, Houston, Tex. Filed Apr. 17, 1939.

PALM VALLEY

For Canned Fruits, Canned Vegetables, and Canned Fruit Juices for Food Purposes.
Claims use since July, 1936.

Ser. No. 418,406. W. B. GRAINGER PACKING COMPANY, Salinas, Calif. Filed Apr. 18, 1939.

MAINLINER

For Fresh Vegetables.
Claims use since Apr. 11, 1939.

Ser. No. 418,454. SWIFT AND COMPANY, Chicago, Ill. Filed Apr. 19, 1939.



For Poultry, Sausage, Prepared, Cured, and Smoked Pork and Beef.
Claims use since Nov. 10, 1937.

Ser. No. 418,517. FISHER FLOURING MILLS COMPANY, West Waterway, Harbor Island, and Seattle, Wash. Filed Apr. 21, 1939.

GERMAKO

For Wheat Product—Namely, Wheat Flour Fortified with Wheat Germ and Other Portions of Wheat.
Claims use since Mar. 10, 1939.

Ser. No. 418,518. FISHER FLOURING MILLS COMPANY, West Waterway, Harbor Island, and Seattle, Wash. Filed Apr. 21, 1939.

GERMOLOAF

For Wheat Product—Namely, Wheat Flour Fortified with Wheat Germ and Other Portions of Wheat.
Claims use since Mar. 17, 1939.

Ser. No. 418,519. FISHER FLOURING MILLS COMPANY, West Waterway, Harbor Island, and Seattle, Wash. Filed Apr. 21, 1939.

GERMOWHEAT

For Wheat Product—Namely, Wheat Flour Fortified with Wheat Germ and Other Portions of Wheat.
Claims use since Mar. 17, 1939.

Ser. No. 418,520. FISHER FLOURING MILLS COMPANY, West Waterway, Harbor Island, and Seattle, Wash. Filed Apr. 21, 1939.

GERMOVIT

For Wheat Product—Namely, Wheat Flour Fortified with Wheat Germ and Other Portions of Wheat.
Claims use since Mar. 17, 1939.

Ser. No. 418,634. THE GLIDDEN COMPANY, doing business as Durkee Famous Foods, Cleveland, Ohio. Filed Apr. 24, 1939.

FLEX

For Vegetable Shortening.
Claims use since Apr. 21, 1939.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 418,930. ALEX J. MANDL, INC., Hagerstown, Md. Filed May 1, 1939.

DIAMOND BACK

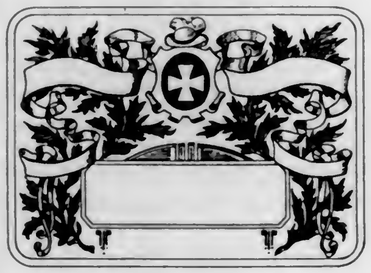
For Pure Rye Whiskey.
Claims use since Apr. 24, 1939.

Ser. No. 419,345. PERNOD S. A. (SOCIÉTÉ ANONYME), Couvet, Switzerland. Filed May 12, 1939.



For Cordials.
Claims use since May 7, 1928.

Ser. No. 419,393. PERNOD S. A. (SOCIÉTÉ ANONYME), Couvet, Switzerland. Filed May 13, 1939.



For Cordials.
Claims use since 1935.

Ser. No. 419,394. THE RARITAN CORPORATION, Perth Amboy, N. J. Filed May 13, 1939.

WYNDALE



The drawing is lined for red.
For Whiskey.
Claims use since June 19, 1938.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 389,398. VARI-COLOR MACHINE CO., St. Louis, Mo. Filed Mar. 1, 1937.

VARI-COLOR

The word "Vari-Color" is disclaimed apart from the mark.
For Etched Engraving Plates for Printing Purposes.
Claims use since May 20, 1936.

Ser. No. 413,510. BRIDES HOUSE, INC., New York, N. Y. Filed Dec. 6, 1938.

CREATE-A-HOME

For Decorating and Planning Kits Consisting of Charts, Printed Instruction Sheets and Scale Ruler Used in Connection with Decorating and Planning of Homes.
Claims use since Nov. 23, 1938.

Ser. No. 418,875. HONEY WEB INC., New York, N. Y. Filed Apr. 29, 1939.

ALFA

For Ribbon Fly Catcher.
Claims use since Dec. 8, 1938.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 20, 1939

368,401. WHISKEY. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky.
Filed March 13, 1939. Serial No. 416,933. PUBLISHED APRIL 11, 1939. Class 49.

368,402. WHISKEY. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky.
Filed March 13, 1939. Serial No. 416,934. PUBLISHED APRIL 11, 1939. Class 49.

368,403. MATTRESSES. LI-ON BEDDING COMPANY, Milwaukee, Wis.
Filed February 18, 1937. Serial No. 389,076. PUBLISHED APRIL 11, 1939. Class 32.

368,404. FRESH CITRUS FRUIT. WEST ONTARIO CITRUS ASSOCIATION, Ontario, Calif.
Filed October 25, 1937. Serial No. 398,949. PUBLISHED NOVEMBER 29, 1938. Class 46.

368,405. DRINKING STRAWS MADE OF REGENERATED CELLULOSE, CELLULOSE ACETATE, OR OTHER CELLULOSE DERIVATIVES OTHER THAN PAPER. EAGLE STRAW CORPORATION, Brooklyn, N. Y.
Filed May 4, 1937. Serial No. 392,263. PUBLISHED JULY 6, 1937. Class 50.

368,406. AUTOMATIC SELF-CLEANING ATOMIZING NOZZLES. PARKS-CRAMER COMPANY, Fitchburg, Mass.
Filed November 1, 1937. Serial No. 399,200. PUBLISHED MAY 17, 1938. Class 13.

368,407. ELECTRIC MOTORS, IGNITION-BATTERIES, ACCUMULATORS, TRANSFORMERS, INDUCTORS, MAGNETS, ELECTROMAGNETS, MAGNETOS, ETC. DAIMLER-BENZ AKTIENGESELLSCHAFT, Stuttgart-Unterturkheim, Germany.
Filed November 11, 1937. Serial No. 399,601. PUBLISHED JANUARY 24, 1939. Class 21.

368,408. VALVES FOR MEASURING AND FOR CONTROLLING THE FLOW OF FLUIDS. THE BRISTOL COMPANY, Waterbury, Conn.
Filed November 26, 1937. Serial No. 400,153. PUBLISHED JANUARY 25, 1938. Class 26.

368,409. NATURAL FRUIT JUICE BASE FOR BEVERAGES. SAM TERRY, doing business as Valley of the Moon Fruit Juice Co., Oakland, Calif.
Filed January 28, 1938. Serial No. 402,451. PUBLISHED APRIL 11, 1939. Class 45.

368,410. FROZEN CONFECTIONS. FROZEN NOVELTIES, INC., Long Island City, N. Y.
Filed February 2, 1938. Serial No. 402,595. PUBLISHED APRIL 11, 1939. Class 46.

368,411. SHAVING CREAM. S. H. KRESS AND COMPANY, New York, N. Y.
Filed April 23, 1938. Serial No. 405,651. PUBLISHED APRIL 11, 1939. Class 4.

368,412. METAL AND WOOD-HOLDING CLEATS. SUPERIOR FASTENER CORPORATION, Chicago, Ill.
Filed April 27, 1938. Serial No. 405,785. PUBLISHED APRIL 11, 1939. Class 13.

368,413. MACHINES FOR SELECTING CARDS FROM A FILE THEREOF AND SPECIALLY ADAPTED CARD TRAYS, ETC. ELECTROFILE, INC., Troy, N. Y.
Filed July 5, 1938. Serial No. 408,188. PUBLISHED APRIL 11, 1939. Class 23.

368,414. SHEATHED ELECTRICAL CONDUCTORS AND SUPPLIES AND FITTINGS FOR SUCH CONDUCTORS. SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES, Mulhouse and Clichy, France.
Filed July 6, 1938. Serial No. 408,257. PUBLISHED APRIL 11, 1939. Class 21.

368,415. WALL SOAP HOLDERS, TUMBLER HOLDERS, GRAB RAILS, TOILET-PAPER HOLDERS, SPONGE HOLDERS, TOOTHBRUSH HOLDERS, DENTIFRICE HOLDERS, TOWEL BARS, SHELF BRACKETS, ROBE HOOKS, STROP HOOKS, AND WALL AND FLOOR DOOR STOPS. THE B. & T. FLOOR COMPANY, Columbus, Ohio.
Filed July 12, 1938. Serial No. 408,413. PUBLISHED APRIL 11, 1939. Class 13.

368,416. PRE-FORMED BLANK, FLAT BLANK, AND CRYSTAL FORM OF DENTAL CELLULOSE MATERIAL USED BY THE DENTAL PROFESSION, IN THE MOLDING AND CONSTRUCTING OF ARTIFICIAL APPLIANCES FOR THE HUMAN MOUTH. CORALITE DENTAL PRODUCTS COMPANY, Chicago, Ill.
Filed September 12, 1938. Serial No. 410,455. PUBLISHED APRIL 11, 1939. Class 44.

368,417. VEGETABLE FATS FOR COOKING AND FRYING. J. BIBBY & SONS LIMITED, Liverpool, England.
Filed September 16, 1938. Serial No. 410,633. PUBLISHED APRIL 11, 1939. Class 46.

368,418. WINES. SOUTHLAND WINE CORPORATION, Richmond, Va.
Filed September 16, 1938. Serial No. 410,669. PUBLISHED APRIL 11, 1939. Class 47.

368,419. MEN'S DRESS SHIRTS, MEN'S UNDERSHIRTS, MEN'S SHORTS, MEN'S UNDERWEAR, STOCKINGS, MEN'S SPORTS SHIRTS, MEN'S OUTER SPORT COATS, MEN'S SPORT AND SLACK PANTS, MEN'S HATS, HANDKERCHIEFS, WOMEN'S DRESSES, MEN'S COATS, MEN'S SUITS, PAJAMAS, GARTERS, BELTS IN THE NATURE OF GARMENT SUPPORTERS, SUSPENDERS, NECKTIES, AND MUFFLERS. HERMAN L. BERCK, Los Angeles, Calif.
Filed October 20, 1938. Serial No. 411,807. PUBLISHED APRIL 11, 1939. Class 39.

368,420. WOMEN'S, MISSES', AND GIRLS' HATS OF FELT, WOOL, HAIR, OR FUR. EVERITT HAT COMPANY, Milwaukee, Wis.
Filed October 31, 1938. Serial No. 412,222. PUBLISHED APRIL 11, 1939. Class 39.

368,421. ATOMISERS, BIDET CUSHIONS, NURSING NIPPLES FOR CATTLE, HOT WATER BOTTLES, ICE BAGS, PESSARIES, SURGEONS' RUBBER GLOVES, SYRINGES, X-RAY PROOF GLOVES, X-RAY PROOF RUBBER SHEETS AND APRONS, AND GAS MASKS. SOCIETÀ ITALIANA PIRELLI, Milan, Italy.
Filed November 2, 1938. Serial No. 412,310. PUBLISHED APRIL 11, 1939. Class 44.

368,422. TENNIS BALLS, TOY BALLS FOR CHILDREN, TOY BALLOONS. SOCIETÀ ITALIANA PIRELLI, Milan, Italy.
Filed November 2, 1938. Serial No. 412,311. PUBLISHED APRIL 11, 1939. Class 22.

368,423. TOILET CREAMS. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y.
Filed November 5, 1938. Serial No. 412,413. PUBLISHED APRIL 4, 1939. Class 6.

368,424. THERMOMETERS AND HYDROMETERS AS USED BY OIL TESTING LABORATORIES, CHEMICAL LABORATORIES, AND THE LIKE. NURNBERG THERMOMETER CO., INC., New York, N. Y.
Filed November 5, 1938. Serial No. 412,576. PUBLISHED APRIL 11, 1939. Class 26.

368,425. BLASTING CAPS. HERCULES POWDER COMPANY, Wilmington, Del.
Filed November 10, 1938. Serial No. 412,603. PUBLISHED APRIL 11, 1939. Class 9.

368,426. COMBINATION SET CONSISTING OF A MUG AND SOAP. SHULTON, INC., New York, N. Y.
Filed November 12, 1938. Serial No. 412,675. PUBLISHED APRIL 11, 1939. Class 50.

368,427. METAL CLOSURES FOR TANKS, DRUMS, CARBOYS, AND SIMILAR RECEPTACLES. STERLING PRODUCTS COMPANY, Easton, Pa.
Filed November 23, 1938. Serial No. 413,085. PUBLISHED APRIL 11, 1939. Class 50.

368,428. ELEVATORS—NAMELY, FLUID PRESSURE OPERATED PISTON TYPE ELEVATORS, USUALLY PLATFORMED AND RISING IN THE ORDER OF THREE TO TEN FEET, AND USED CHIEFLY FOR LOADING PLATFORMS OR AS SHORT LIFT FREIGHT ELEVATORS. ROTARY LIFT COMPANY, Memphis, Tenn.
Filed December 2, 1938. Serial No. 413,382. PUBLISHED JANUARY 24, 1939. Class 23.

368,429. ENVELOPES. COHOES ENVELOPE CO., INC., Cohoes, N. Y.
Filed December 6, 1938. Serial No. 413,511. PUBLISHED APRIL 11, 1939. Class 37.

368,430. PERMANENT WAVING PADS. GIBBS & COMPANY, Chicago, Ill.
Filed December 9, 1938. Serial No. 413,630. PUBLISHED APRIL 11, 1939. Class 44.

368,431. WOVEN OR BRAIDED NARROW FABRICS OF GOLD OR SILVER OR THEIR ALLOYS FOR USE IN THE ORNAMENTATION OF ARTICLES OF DRESS, ETC. ROWLAND ACCOUTERMENTS, INC., Wilmington, Del.
Filed December 10, 1938. Serial No. 413,684. PUBLISHED APRIL 11, 1939. Class 40.

368,432. TRACTION LUG UNITS FOR RUBBER TIRED TRACTOR WHEELS. T. G. SCHMEISER CO., Fresno, Calif.
Filed December 12, 1938. Serial No. 413,740. PUBLISHED APRIL 11, 1939. Class 23.

368,433. BISCUIT FLOUR AND GRAVY FLOUR. GIESSING MILLING COMPANY, Farmington, Mo.
Filed December 19, 1938. Serial No. 413,988. PUBLISHED APRIL 11, 1939. Class 46.

368,434. FRESH CITRUS FRUITS AND VEGETABLES. FERGUSON MARKETING SERVICE, INC., Baltimore, Md.
Filed December 23, 1938. Serial No. 414,144. PUBLISHED APRIL 11, 1939. Class 46.

368,435. CLOTHING FOR MEN, BOYS, AND CHILDREN—NAMELY, SUITS, COATS, OVERCOATS, OUTER SHIRTS, BLOUSES, ETC. ABRAHAM & STRAUS, INC., Brooklyn, N. Y.
Filed December 24, 1938. Serial No. 414,179. PUBLISHED APRIL 11, 1939. Class 39.

368,436. PUNCH BOARDS. CHESTER A. JONES, Ottumwa, Iowa.
Filed December 27, 1938. Serial No. 414,226. PUBLISHED APRIL 11, 1939. Class 22.

368,437. MALT BEVERAGES—NAMELY, BEER AND ALE HAVING THE LEGAL ALCOHOLIC CONTENT. C. SCHMIDT & SONS, INC., Philadelphia, Pa.
Filed December 27, 1938. Serial No. 414,240. PUBLISHED APRIL 11, 1939. Class 48.

368,438. MEN'S SHOES MADE OF LEATHER, FABRIC, RUBBER, OR ANY COMBINATION OF ONE OR MORE OF SAID MATERIALS. JOHN E. LUCEY SHOE CO., Middleboro, Mass.
Filed December 30, 1938. Serial No. 414,357. PUBLISHED APRIL 11, 1939. Class 39.

368,439. GIRDLES AND BRASSIÈRES. BILT-RITE FOUNDATION CO., New York, N. Y.
Filed January 11, 1939. Serial No. 414,682. PUBLISHED APRIL 11, 1939. Class 39.

368,440. MEN'S NECKTIES AND MUFFLERS. HARRY ISAACS INC., New York, N. Y.
Filed January 11, 1939. Serial No. 414,696. PUBLISHED APRIL 11, 1939. Class 39.

368,441. GLAZED KID. MITCHELL & PEIRSON INCORPORATED, Philadelphia, Pa.
Filed January 11, 1939. Serial No. 414,705. PUBLISHED APRIL 11, 1939. Class 1.

368,442. SYRUP COMPOSED OF CORN SYRUP, SUGAR CANE PRODUCTS, AND COUNTRY SORGHUM. PENICK & FORD, LTD. INCORPORATED, New York, N. Y.
Filed January 16, 1939. Serial No. 414,889. PUBLISHED APRIL 11, 1939. Class 46.

368,443. MEN'S HATS. ADAM HAT STORES, INC., New York, N. Y.
Filed January 17, 1939. Serial No. 414,908. PUBLISHED APRIL 11, 1939. Class 39.

368,444. PULVERIZED BLACK (PAINT PIGMENT), ACID RESISTING PAINT, AND PAINT THINNER. SEALCO BY-PRODUCTS COMPANY, INC., Bluefield, W. Va.
Filed January 17, 1939. Serial No. 414,924. PUBLISHED APRIL 11, 1939. Class 16.

368,445. MEN'S NECKTIES AND MUFFLERS. McCURRACH ORGANIZATION INCORPORATED, New York, N. Y.
Filed January 18, 1939. Serial No. 414,959. PUBLISHED APRIL 11, 1939. Class 39.

368,446. BOLTS, STUDS, NUTS, SCREWS, AND SCREW CONNECTIONS. AIRCRAFT SCREW PRODUCTS COMPANY, INC., Brooklyn, N. Y.
Filed January 20, 1939. Serial No. 415,025. PUBLISHED APRIL 11, 1939. Class 13.

368,447. CONNECTORS FOR SECURING CABLES OR CONDUITS TO OUTLET BOXES OR CONNECTION BOXES. APPLETON ELECTRIC COMPANY, Chicago, Ill.
Filed January 20, 1939. Serial No. 415,028. PUBLISHED APRIL 11, 1939. Class 21.

368,448. SAFETY RAZOR BLADES. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed January 20, 1939. Serial No. 415,037. PUBLISHED APRIL 11, 1939. Class 23.

368,449. SAFETY RAZOR BLADES. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed January 20, 1939. Serial No. 415,038. PUBLISHED APRIL 11, 1939. Class 23.

368,450. SAFETY RAZOR BLADES. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed January 20, 1939. Serial No. 415,039. PUBLISHED APRIL 11, 1939. Class 23.

368,451. CLEANING COMPOUND FOR CLEANING WOODWORK, FLOORS, FLOOR MATS AND RUGS, UPHOLSTERY, AND THE LIKE. EARLE M. NORTH, doing business as North Distributing Company, Houston, Tex.
Filed January 20, 1939. Serial No. 415,054. PUBLISHED APRIL 11, 1939. Class 4.

368,452. WHISKEY, GIN, RUM, BRANDY, AND ALCOHOLIC CORDIALS. SCHENLEY DISTILLERS CORPORATION, New York, N. Y.
Filed January 20, 1939. Serial No. 415,057. PUBLISHED APRIL 11, 1939. Class 49.

368,453. CREAM ALE. HANDY BEER AND WINE COMPANY, Boston, Mass.
Filed January 21, 1939. Serial No. 415,081. PUBLISHED APRIL 11, 1939. Class 48.

368,454. ELECTRIC SOUND REPRODUCTION EQUIPMENT, COMPRISING SUITABLE HOUSING FOR PHONOGRAPH TURNTABLE AND DRIVING MEANS, PICK-UP, AMPLIFIER AND SPEAKER, FOR USE WITH A SLIDE FILM PROJECTOR FOR THE DISSEMINATION OF INFORMATION BY SOUND AND VISION. WEBSTER ELECTRIC COMPANY, Racine, Wis.
Filed January 21, 1939. Serial No. 415,093. PUBLISHED APRIL 11, 1939. Class 36.

368,455. STEEL SHOE SHANKS. AMERICAN SHOE SHANK COMPANY, INC., Avon, Mass.
Filed January 23, 1939. Serial No. 415,100. PUBLISHED APRIL 11, 1939. Class 13.

368,456. LADIES' HOSIERY. CHESTER H. ROTH & Co., New York, N. Y.
Filed January 25, 1939. Serial No. 415,228. PUBLISHED APRIL 11, 1939. Class 39.

368,457. BEER. STORZ BREWING COMPANY, Omaha, Nebr.
Filed January 25, 1939. Serial No. 415,234. PUBLISHED APRIL 11, 1939. Class 48.

368,458. LEATHER, FABRIC, AND LEATHER AND FABRIC GLOVES. BRENTON F. BEVERLY, New York, N. Y.
Filed January 26, 1939. Serial No. 415,243. PUBLISHED APRIL 11, 1939. Class 39.

368,459. WOOLEN FABRICS IN THE PIECE. LOWE, DONALD & CO. INC., New York, N. Y.
Filed January 27, 1939. Serial No. 415,296. PUBLISHED APRIL 11, 1939. Class 42.

368,460. UNDERGARMENTS—NAMELY, CHEMISES, PANTIES, NIGHT-GOWNS, PAJAMAS, SLIPS, BRASSIÈRES, NEGLIGEES, AND CORSETS FOR WOMEN. GARFINKEL & RITTER, New York, N. Y.
Filed January 28, 1939. Serial No. 415,335. PUBLISHED APRIL 11, 1939. Class 39.

368,461. UNGERGARMENTS—NAMELY, CHEMISES, PANTIES, NIGHT-GOWNS, PAJAMAS, SLIPS, BRASSIÈRES, NEGLIGEES, AND CORSETS FOR WOMEN. GARFINKEL & RITTER, New York, N. Y.
Filed January 28, 1939. Serial No. 415,336. PUBLISHED APRIL 11, 1939. Class 39.

368,462. BUTTONS, OTHER THAN PRECIOUS METAL, FOR PERSONAL WEAR. ROCHESTER BUTTON, COMPANY, Rochester, N. Y.
Filed January 28, 1939. Serial No. 415,352. PUBLISHED APRIL 11, 1939. Class 40.

368,463. YARN. JORDAN MILLS, INC., Columbus, Ga.
Filed January 30, 1939. Serial No. 415,399. PUBLISHED MARCH 28, 1939. Class 43.

368,464. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed January 30, 1939. Serial No. 415,407. PUBLISHED APRIL 11, 1939. Class 39.

368,465. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed January 30, 1939. Serial No. 415,409. PUBLISHED APRIL 11, 1939. Class 39.

368,466. TEACUPS AND BOWLS MADE OF CHINA, PORCELAIN, AND OTHER EARTHENWARE. EVANGELINE DAY, New York, N. Y.
Filed January 31, 1939. Serial No. 415,447. PUBLISHED APRIL 11, 1939. Class 30.

368,467. SALT. THE CAREY SALT CO., Hutchinson, Kans.
Filed February 2, 1939. Serial No. 415,497. PUBLISHED APRIL 11, 1939. Class 46.

368,468. BEER. BARON LONG, doing business as The Biltmore Hotel, Los Angeles, Calif.
Filed February 3, 1939. Serial No. 415,554. PUBLISHED APRIL 11, 1939. Class 48.

368,469. TOY STUFFED ANIMALS, SUCH AS TEDDY BEARS, BUNNIES, DOGS, CATS, PANDAS, MICE, LIONS, ELEPHANTS, ETC. NATIONAL STUFFED ANIMALS CO. INC., New York, N. Y.
Filed February 3, 1939. Serial No. 415,557. PUBLISHED APRIL 11, 1939. Class 22.

368,470. STORAGE BATTERIES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 6, 1939. Serial No. 415,644. PUBLISHED APRIL 11, 1939. Class 21.

368,471. WHEAT FLOUR. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed February 6, 1939. Serial No. 415,663. PUBLISHED APRIL 11, 1939. Class 46.

368,472. LEATHER. AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del.
Filed February 7, 1939. Serial No. 415,690. PUBLISHED APRIL 11, 1939. Class 1.

368,473. PHOTOGRAPHIC CAMERAS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed February 7, 1939. Serial No. 415,708. PUBLISHED APRIL 11, 1939. Class 26.

368,474. WRAPPING PAPER FOR FOODS. THE HAMERSLEY MANUFACTURING COMPANY, Garfield, N. J.
Filed February 7, 1939. Serial No. 415,715. PUBLISHED APRIL 11, 1939. Class 37.

368,475. FILES. HELLER BROTHERS COMPANY, Newark, N. J.
Filed February 7, 1939. Serial No. 415,716. PUBLISHED APRIL 11, 1939. Class 23.

368,476. SHEEPSKIN SUEDE FANCY LEATHER. WILLARD HELBURN, INC., Salem, Mass.
Filed February 7, 1939. Serial No. 415,752. PUBLISHED APRIL 11, 1939. Class 1.

368,477. WATER REPELLENT GARMENT SUEDE LEATHER. WILLARD HELBURN, INC., Salem, Mass.
Filed February 7, 1939. Serial No. 415,753. PUBLISHED APRIL 11, 1939. Class 1.

368,478. GRAIN FINISH SHEEPSKIN FANCY LEATHER. WILLARD HELBURN, INC., Salem, Mass.
Filed February 7, 1939. Serial No. 415,754. PUBLISHED APRIL 11, 1939. Class 1.

368,479. SHEEPSKIN SUEDE FANCY LEATHER. WILLARD HELBURN, INC., Salem, Mass.
Filed February 7, 1939. Serial No. 415,755. PUBLISHED APRIL 11, 1939. Class 1.

368,480. GUMMED PAPER TAPE. CENTRAL PAPER COMPANY, Menasha, Wis.
Filed February 8, 1939. Serial No. 415,764. PUBLISHED APRIL 11, 1939. Class 37.

368,481. COAL. COIL COAL & MINING COMPANY, INCORPORATED, Madisonville, Ky.
Filed February 8, 1939. Serial No. 415,767. PUBLISHED APRIL 11, 1939. Class 1.

368,482. HOSE MADE ENTIRELY OR IN PART OF RUBBER, RUBBER LINED METALLIC PIPE, AND RUBBER COVERED METALLIC PIPE. HEWITT RUBBER CORPORATION, Buffalo, N. Y.
Filed February 8, 1939. Serial No. 415,777. PUBLISHED APRIL 11, 1939. Class 35.

368,483. TOOTHBRUSHES. R. H. MACY & CO., INC., New York, N. Y.
Filed February 8, 1939. Serial No. 415,784. PUBLISHED APRIL 11, 1939. Class 29.

368,484. BOND PAPERS, LEDGER PAPERS, ONION SKIN PAPERS, FLAT WRITING PAPERS, MIMEOGRAPH PAPERS, AND BLUE PRINT PAPERS. FOX RIVER PAPER CORPORATION, Appleton, Wis.
Filed February 9, 1939. Serial No. 415,841. PUBLISHED APRIL 11, 1939. Class 37.

368,485. PAPER—NAMELY, WRITING PAPER, PRINTING PAPER, PAPER ROLLS, PAPER STRIPS, RECEIPT PAPER, AND STATIONERY—NAMELY, FORM BOOKS, SALES BOOKS, RECEIPT BOOKS, STATEMENT BOOKS, AND CASH REGISTER ACCOUNT BOOKS. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed February 9, 1939. Serial No. 415,853. PUBLISHED APRIL 11, 1939. Class 37.

368,486. CIGARETTES. THE AXTON-FISHER TOBACCO COMPANY, Louisville, Ky.
Filed February 10, 1939. Serial No. 415,871. PUBLISHED APRIL 11, 1939. Class 17.

368,487. PLAIN AND VARIEGATED LINOLEUM. CONGOLEUM-NAIRN INC., Kearny, N. J.
Filed February 10, 1939. Serial No. 415,876. PUBLISHED APRIL 11, 1939. Class 20.

368,488. PLAIN AND INLAID LINOLEUM, LINOLEUM TILE, AND CORK CARPET. CONGOLEUM-NAIRN INC., Kearny, N. J.
Filed February 10, 1939. Serial No. 415,878. PUBLISHED APRIL 11, 1939. Class 20.

368,489. TEA. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 10, 1939. Serial No. 415,879. PUBLISHED APRIL 11, 1939. Class 46.

368,490. TEA. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 10, 1939. Serial No. 415,882. PUBLISHED APRIL 11, 1939. Class 46.

368,491. LEATHER. FRED RUEPING LEATHER CO., Fond du Lac, Wis.
Filed February 10, 1939. Serial No. 415,913. PUBLISHED APRIL 11, 1939. Class 1.

368,492. SHAVING CREAM. SOUTHWESTERN DRUG CORPORATION, doing business as Red Arrow Laboratories, Waco, Tex.
Filed February 11, 1939. Serial No. 415,963. PUBLISHED APRIL 11, 1939. Class 4.

368,493. FRESH CITRUS FRUIT. TEXAS CITRUS FRUIT GROWERS EXCHANGE, Mission, Tex.
Filed February 11, 1939. Serial No. 415,969. PUBLISHED APRIL 11, 1939. Class 46.

368,494. ICE CREAM CONES. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y.
Filed February 13, 1939. Serial No. 415,991. PUBLISHED APRIL 11, 1939. Class 46.

368,495. KENTUCKY STRAIGHT BOURBON WHISKEY. MINARDO BROS. FRUIT CO., INC., La Fayette, Ind.
Filed February 13, 1939. Serial No. 415,993. PUBLISHED APRIL 11, 1939. Class 49.

368,496. PIECE GOODS MADE OF ALL SPUN RAYON AND THE COMBINATION OF SPUN RAYON AND COTTON. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed February 16, 1939. Serial No. 416,112. PUBLISHED APRIL 11, 1939. Class 42.

368,497. SILK PIECE GOODS AND CREPE PIECE GOODS OF SILK AND/OR ARTIFICIAL SILK. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y.
Filed February 16, 1939. Serial No. 416,117. PUBLISHED APRIL 11, 1939. Class 42.

368,498. BELTS, BELTING, AND HOSE COMPOSED PRINCIPALLY OR WHOLLY OF RUBBER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 17, 1939. Serial No. 416,140. PUBLISHED APRIL 11, 1939. Class 35.

368,499. WHISKEY. THE JAMES DISTILLERY, INC., Baltimore, Md.
Filed February 17, 1939. Serial No. 416,147. PUBLISHED APRIL 11, 1939. Class 49.

368,500. SHUTTLECOCKS. RALPH MICHAELS, Chicago, Ill.
Filed February 17, 1939. Serial No. 416,153. PUBLISHED APRIL 11, 1939. Class 22.

368,501. WINDOW-SHADE FABRICS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,227. PUBLISHED APRIL 11, 1939. Class 42.

368,502. TOILET ARTICLES COMPRISING KNIVES AND SCISSORS FOR USE AS MANICURE IMPLEMENTS, NAIL POLISHERS, CUTICLE PUSHERS, AND NAIL FILES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,234. PUBLISHED APRIL 11, 1939. Class 44.

368,503. GAME APPARATUS OF THE SPINNER TYPE OPERATED MANUALLY AND/OR ELECTRICALLY. WILLIAM V. BARLOW, doing business as The Jitterbug Co., Jacksonville, Fla.
Filed February 20, 1939. Serial No. 416,243. PUBLISHED APRIL 11, 1939. Class 22.

368,504. CARPETS AND RUGS. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed February 20, 1939. Serial No. 416,247. PUBLISHED APRIL 11, 1939. Class 42.

368,505. GAME PLAYED WITH CARDS. BURNSTINE-VINCENT, INC., New York, N. Y.
Filed February 23, 1939. Serial No. 416,310. PUBLISHED APRIL 11, 1939. Class 22.

368,506. NEEDLES WITH MULTIPLE SUTURES, SURGICAL NEEDLES, AND SUTURES FOR SURGICAL USE. J. A. DEKNATEL & SON, Queens Village, N. Y.
Filed March 1, 1939. Serial No. 416,548. PUBLISHED APRIL 11, 1939. Class 44.

368,507. VENETIAN BLINDS AND TABLE PADS. GREEN TABLE PAD CORP., New York, N. Y.
Filed March 2, 1939. Serial No. 416,606. PUBLISHED APRIL 11, 1939. Class 32.

368,508. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FOR THE CONCENTRATES THEREOF. GRANDPA BRANDS COMPANY, Cincinnati, Ohio.
Filed March 1, 1939. Serial No. 416,630. PUBLISHED APRIL 11, 1939. Class 45.

368,509. QUESTION AND ANSWER GAME. WILLIAM B. BOLGER, Cleveland, Ohio.
Filed March 3, 1939. Serial No. 416,640. PUBLISHED APRIL 11, 1939. Class 22.

368,510. WHISKEY, GIN, RUM, BRANDY, AND ALCOHOLIC CORDIALS. R. L. BUSE COMPANY INCORPORATED, Cincinnati, Ohio.
Filed March 3, 1939. Serial No. 416,642. PUBLISHED APRIL 11, 1939. Class 49.

368,511. COMBINATION HORN AND BALLOON. RUSSELET NOVELTY CO., New York, N. Y.
Filed March 3, 1939. Serial No. 416,657. PUBLISHED APRIL 11, 1939. Class 22.

368,512. BOARD MARBLE GAMES. CLAUDE R. ABBE, Rome, N. Y.
Filed March 6, 1939. Serial No. 416,714. PUBLISHED APRIL 11, 1939. Class 22.

368,513. GAME COMPRISING A BOARD AND CERTAIN MOVABLE PIECES. METALECTRIC CORPORATION, Waterloo, Iowa.
Filed March 7, 1939. Serial No. 416,769. PUBLISHED APRIL 11, 1939. Class 22.

368,514. PILLOWS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed March 7, 1939. Serial No. 416,773. PUBLISHED APRIL 11, 1939. Class 32.

368,515. GOLF BALLS. CROWN DRUG COMPANY, Kansas City, Mo.
Filed March 8, 1939. Serial No. 416,794. PUBLISHED APRIL 11, 1939. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

368,516. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 6, 1936. Serial No. 376,870.

MERIT

For Enamelware—Namely, Percolators, Teakettles, Kettles, Saucepans, Sink Strainers, French Fryers, Steam Cookers, Double Boilers, Mixing Bowls, Pudding Pans, Pitchers, Dishpans, Roasters, Canners, Refrigerator Pans; Aluminumware—Namely, Double Boilers, Teakettles, Dutch Kettles, Covered Kettles, Percolators, Coffee Makers, Teapots, Saucepans, Mixing Bowls, Tube Cake Pans, Pudding Pans, Baking Pans, Dishpans, Boilers, French Fryers, Square Egg Poachers, Preserving Kettles, Canners, Roasters, Waterless Cookers; Cast Ironware—Namely, Chicken Fryers, Skillets, Griddles, Waffle Irons, Dutch Ovens, Kettles, French Fryers, Ham Boilers, Corn Bread Pans, Trivets, Patty Irons, Patty Shells.

Claims use since Aug. 1, 1935.

368,517. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 12, 1936. Serial No. 384,271.

MERIT

For Housecleaning Devices—Namely, Dust Mops, Oil Mops, Yacht Mops, Self-Wringing Mops, Mop Sticks, Mop Heads, Brooms, Floor Brushes, and Wall Dusters.

Claims use since Nov. 1, 1935.

368,518. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN RECORD CORPORATION, New York, N. Y. Filed Mar. 4, 1937. Serial No. 389,628.

PERFECT

For Phonograph Records and Record Blanks.

Claims use since Dec. 31, 1925.

368,519. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KEM CARD SALES CORPORATION, New York, N. Y. Filed Oct. 25, 1937. Serial No. 398,905.

KEM

For Playing Cards.

Claims use since September, 1934.

368,520. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KASPAR WINKLER & CO., Altstetten, near Zurich, Switzerland. Filed Nov. 30, 1937. Serial No. 400,324.

Conservado

For Paints, Varnishes, Inorganic and Organic Compounds or Solutions of Salts for Use as Paints and for the Purpose of Hardening, Coloring, Making Waterrepelling, Protecting Against Aggressive Compounds, and Forming a Protecting Film on Stone, Cement, Plaster, Brick, Roof Tiles, and Gypsum.

Claims use since July 3, 1911.

368,521. (CLASS 39. CLOTHING.) NU-WAY SHOE CO., INC., New York, N. Y. Filed Feb. 23, 1938. Serial No. 403,325.

FASHION TRED

For Women's and Children's Shoes, Made of Leather, Fabric, and Combinations of Leather and Fabric.

Claims use since December, 1937.

368,522. (CLASS 38. PRINTS AND PUBLICATIONS.) COLOR-CHORDS, New York, N. Y. Filed Mar. 21, 1938. Serial No. 404,294.

"COLOR-CHORDS"

For a Chart Device for Application to a Piano Key Board to Facilitate the Teaching of Musical Chords.

Claims use since Jan. 28, 1938.

368,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUEEN ANT CONTROL, INC., Columbus, Ohio. Filed Mar. 21, 1938. Serial No. 404,326.

QUEEN ANT CONTROL

For Insecticides.

Claims use since 1934.

368,524. (CLASS 39. CLOTHING.) THE WALKER T. DICKERSON COMPANY, Columbus, Ohio. Filed Mar. 25, 1938. Serial No. 404,470.

Heeltyte

For Shoes Made of Leather, Leather and Fabric, and the Combination of Leather, Rubber, and Fabric.

Claims use since Feb. 7, 1938.

368,525. (CLASS 39. CLOTHING.) C. M. HERRING, INC., Lynchburg, Va. Filed Apr. 14, 1938. Serial No. 405,249.

Les Jolies Models

For Shoes of Leather, Fabric, and Combinations of Leather and Fabric.

Claims use since Apr. 1, 1938.

368,526. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN D. VAN ALLEN & SON, INC., Clinton, Iowa. Filed Apr. 27, 1938. Serial No. 405,788.

Kathryn Kent

For All Purpose Cream, Cleansing Cream, Cold Cream, Hand Cream, Nourishing Cream, Foundation Lotion, Honey and Almond Lotion, Skin Tonic, Antiseptic Mouth Wash, Astringent Mouth Wash, Face Powder.

Claims use since Mar. 22, 1938.

368,527. (CLASS 37. PAPER AND STATIONERY.) S. D. WARREN COMPANY, Boston, Mass. Filed Apr. 28, 1938. Serial No. 405,830.

FILMKOTE

For Book Paper.

Claims use since Apr. 13, 1938.

368,528. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOMA LINDA FOOD COMPANY, Loma Linda, Calif. Filed May 16, 1938. Serial No. 406,391.

BREAKFAST CUP

For all the family

For Table Beverage Made from Soy Beans, Figs, and Grains.

Claims use since Mar. 1, 1933.

368,529. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CHAS. W. BRENEMAN CO., Cincinnati, Ohio. Filed June 10, 1938. Serial No. 407,327.

SCRUBVT

For Window Shades.

Claims use since May 20, 1938.

368,530. (CLASS 39. CLOTHING.) AETNA PRODUCTS, New York, N. Y. Filed June 23, 1938. Serial No. 407,784.

Fancy Maid

For Slips and Panties.

Claims use since Mar. 29, 1938.

368,531. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HEIN-WERNER MOTOR PARTS CORPORATION, Waukesha, Wis. Filed July 7, 1938. Serial No. 408,276.

HEIN-WERNER
Bumper-Lift

For Hydraulic Jacks.

Claims use since Apr. 1, 1935.

368,532. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JAMES B. BEAM DISTILLING CO., INCORPORATED, Clermont, Ky., assignor to Colonial Warehouses, Inc., Minneapolis, Minn., a corporation of Delaware. Filed July 19, 1938. Serial No. 408,633.

IN-WOOD

For Bourbon Whiskey.

Claims use since May 3, 1938.

368,533. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERNARD BERNEY, doing business as Berncur Laboratories, Jacksonville, Fla. Filed July 21, 1938. Serial No. 408,746.

Burn-Soothe

For Preparation for Use in the Treatment of Burns and Insect Bites.
Claims use since Apr. 8, 1938.

368,534. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUPPLEE-BIDDLE HARDWARE CO., Philadelphia, Pa. Filed Aug. 4, 1938. Serial No. 409,245.

GUARANTEED TRUSTWORTHY TOOLS

For Mechanics' Tools—Namely, Hammers, Hatchets, Axes, Chisels, and Screw Drivers, and Lawn Mowers.
Claims use since Mar. 14, 1938.

368,535. (CLASS 12. CONSTRUCTION MATERIALS.) LALLY-COLUMN CO., Cambridge, Mass., and Brooklyn, N. Y. Filed Sept. 29, 1938. Serial No. 411,095.

MANUFACTURED BY THE LALLY COLUMN CO. GENUINE LALLY COLUMN TRADE MARK BOSTON · NEW YORK · CHICAGO

For Building Columns of Steel or Iron Filled with Concrete or Other Plastic Material.
Claims use since 1923.

368,536. (CLASS 39. CLOTHING.) SUTTON SHIRT CORP., New York, N. Y. Filed Dec. 1, 1938. Serial No. 413,369.

THE McCoy SPORTWEAR by SUTTON SHIRT CORP

For Men's Shirts and Sport Shirts.
Claims use since Jan. 2, 1938.

368,537. (CLASS 12. CONSTRUCTION MATERIALS.) STONE-MIX CONCRETE CORP., Buffalo, N. Y. Filed Dec. 3, 1938. Serial No. 413,459.

STONE-MIX

For Ready Mixed Concrete in Wetted Condition.
Claims use since Mar. 15, 1937.

368,538. (CLASS 39. CLOTHING.) GLASS & COMPANY, DRESS CORP., New York, N. Y. Filed Dec. 23, 1938. Serial No. 414,148.

GLASSMADE

For Women's, Misses', and Children's Dresses, Coats, Suits, Waists, and Blouses.
Claims use since January, 1938.

368,539. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed Dec. 23, 1938. Serial No. 414,175.

QUALITY+

For Insecticides, Moth Repellent and Deodorizing Preparations.
Claims use since Mar. 15, 1938.

368,540. (CLASS 39. CLOTHING.) ROBERT BRUCE KNITWEAR COMPANY, Philadelphia, Pa. Filed Dec. 24, 1938. Serial No. 414,194.

MOTHCHEK MOTH RESISTANT

For Knitted Wearing Apparel for Men, Boys, and Children—Namely, Sweaters, Hosiery, Polo Shirts, Sport Shirts, Sweat Shirts, Bathing Suits, and Bathing Trunks.
Claims use since Apr. 11, 1938.

368,541. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN OSTER MANUFACTURING COMPANY, Racine, Wis. Filed Dec. 27, 1938. Serial No. 414,236.

Oster

For Hand Operated Hair Clippers, Electric Hair Clippers for Human Use, Electric Hair Clippers for Animal Use, Fur Trimming Hair Clippers, Rug Clipping Electric Clippers, Hat Trimming Clippers, Clipper Blades, and Electric Shavers.
Claims use since Nov. 1, 1924.

368,542. (CLASS 39. CLOTHING.) BRAND AND PURITZ, Kansas City, Mo. Filed Jan. 14, 1939. Serial No. 414,813.

Junior-Lane

For Ladies', Misses', and Children's Coats and Suits.
Claims use since Nov. 15, 1937.

368,543. (CLASS 39. CLOTHING.) JOE & TED FUNK, New York, N. Y. Filed Feb. 8, 1939. Serial No. 415,772.

Youthful Women

For Ladies' Coats and Suits and Misses' Coats and Suits.
Claims use since Jan. 15, 1936.

368,544. (CLASS 39. CLOTHING.) IRVING GEIST, New York, N. Y. Filed Feb. 8, 1939. Serial No. 415,773.

Barbara Whitney

For Women's, Misses', and Children's Blouses, Waists, Skirts, Dresses, Culottes, and Housecoats.
Claims use since Aug. 1, 1937.

368,545. (CLASS 39. CLOTHING.) TRIUMPH HOSIERY MILLS, INC., New York, N. Y. Filed Feb. 15, 1939. Serial No. 416,080.

'Tis-So-Sheer

For Hosiery.
Claims use since May 1, 1938.

368,546. (CLASS 39. CLOTHING.) WARSHAUER & FRANCK, INC., Boston, Mass. Filed Feb. 15, 1939. Serial No. 416,082.

Eve Carver ORIGINAL

For Ladies' Dresses.
Claims use since Feb. 25, 1938.

368,547. (CLASS 38. PRINTS AND PUBLICATIONS.) HOWARD JAMES HITE, doing business as Hite Photo Service, Detroit, Mich. Filed Mar. 2, 1939. Serial No. 416,608.

Dekl-Kraft PRINTS

For Photographic Prints.
Claims use since Mar. 21, 1937.

368,548. (CLASS 15. OILS AND GREASES.) CITIES SERVICE OIL COMPANY, New York, N. Y. Filed Mar. 11, 1939. Serial No. 416,948.

RED-HEAT

For Fuel Oils.
Claims use since May 15, 1935.

368,549. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) LONDON HOUSE, LTD., New York, N. Y. Filed Mar. 11, 1939. Serial No. 416,960.

Berkeley Club

For Pipes.
Claims use since 1927.

368,550. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MARLIN FIREARMS COMPANY, New Haven, Conn. Filed Mar. 11, 1939. Serial No. 416,963.

HIGH SPEED

For Safety Razor Blades.
Claims use since Feb. 2, 1937.

368,551. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) NATIONAL MUSICAL STRING CO., New Brunswick, N. J. Filed Mar. 22, 1939. Serial No. 417,383.

GUT-TONE

For Strings for Banjos, Guitars, Mandolins, Violins, and Similar Musical Instruments.
Claims use since October, 1937.

368,552. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Apr. 3, 1939. Serial No. 417,822.

DERMALAC

For Soothing Lotion for Chapped Hands, Face, and Lips, and Roughness of the Skin.
Claims use since Mar. 19, 1912.

368,553. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAYTON COMPANY, Kansas City, Mo. Filed Mar. 15, 1939. Serial No. 417,107.

TAYTON'S

For Astringent, Brilliantine, Compacts, Creams, Hair Oil, Lipsticks, Lotion, Mask, Powders, and Rouges Indicated for Use as Beauty, Cosmetic, and Toilet Preparations.

Claims use since Dec. 27, 1935.

368,554. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Mar. 22, 1939. Serial No. 417,373.

Wyndham

For Men's and Boys' Dress, Negligee, and Work Shirts, Underwear (Shirts, Shorts, Union Suits), Hosiery, Shoes Made of Leather, Rubber, Fabric, and Combinations of Said Materials, Sweaters, Hats, Neckties and Mufflers, and Collars.

Claims use since July 1, 1927.

TRADE-MARK REGISTRATIONS RENEWED

124,660. **SPECIFICATION.** SASH-PUTTIES. Registered March 11, 1919. WILLIAM T. BAKER INC. Renewed March 11, 1939, to Baker Paint & Varnish Co., Jersey City, N. J., a corporation of New Jersey, by change of name.

125,441. **ALADINO.** COTTON PIECE GOODS. Registered May 20, 1919. C. B. HAYWARD & CO., INC., New York, N. Y. Renewed May 20, 1939, to Riverside & Dan River Cotton Mills, Inc., Danville, Va., a corporation of Virginia, assignee.

125,443. **ESPADA DE BALBOA.** COTTON PIECE GOODS. Registered May 20, 1919. C. B. HAYWARD & CO., INC., New York, N. Y. Renewed May 20, 1939, to Riverside & Dan River Cotton Mills, Inc., Danville, Va., a corporation of Virginia, assignee.

125,799. **THREE WAVE LINES.** PORCELAIN WARE—VIZ., BRIC-À-BRAC AND TABLE-PORCELAIN. Registered June 17, 1919. DEN KONGELIGE PORCELAINSFABRIK. Renewed June 17, 1939, to Den Kongelige Porcelainsfabrik, A.-S., Copenhagen, Denmark, a corporation of Denmark, successor.

125,833. **CHOUAGUEN.** SHADE-CLOTH. Registered June 17, 1919. OSWEGO SHADE CLOTH COMPANY, Oswego, N. Y., a corporation of New York. Renewed June 17, 1939.

125,916. **GLOSSOVER.** A LIQUID POLISH FOR FURNITURE, PIANOS, AUTOMOBILES, AND ALL FINISHED SURFACES. Registered July 8, 1919. CORNELIUS A. SCULLY, Leominster, Mass. Renewed July 8, 1939.

125,960. **BAUSH.** CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. Registered July 22, 1919. BAUSH MACHINE TOOL COMPANY, Springfield, Mass., a corporation of Massachusetts. Renewed July 22, 1939.

126,076. **GELINOS.** A MEDICAL JELLY FOR THE NOSE. Registered July 22, 1919. MAURICE F. SCHLESINGER. Renewed July 22, 1939, to Bendiner & Schlesinger, Inc., New York, N. Y., a corporation of New York, assignee.

126,084. **SKINTEX.** FACE-CREAM. Registered July 22, 1919. SKINTEX CO., New York and Forest Hills, N. Y. Renewed July 22, 1939, to Pond Pharmacal Company, Inc., New York, N. Y., a corporation of New York, assignee.

126,269. **AN EAGLE.** LEAD-PENCILS, PENHOLDERS, RUBBER ERASERS, FOUNTAIN-PENS. Registered August 19, 1919. EAGLE PENCIL COMPANY. Renewed August 19, 1939, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware, assignee.

126,991. **A MAN YAWNING.** BEDSTEADS, MATTRESSES, AND PILLOWS. Registered October 21, 1919. BERNSTEIN MANUFACTURING COMPANY, Philadelphia, Pa. Renewed October 21, 1939, to Komfo Products Corporation, Allentown, Pa., a corporation of Pennsylvania, successor.

127,014. **HEALTH-O-METER.** WEIGHING-SCALES. Registered October 21, 1919. CONTINENTAL SCALE WORKS, Chicago, Ill. Renewed October 21, 1939, to Continental Scale Corporation, Dover, Del., a corporation of Delaware, assignee by mesne assignments.

127,023. **DO-DI.** BRASS CASTINGS. Registered October 21, 1919. DOEHLER DIE-CASTING COMPANY, Brooklyn, N. Y. Renewed October 21, 1939, to Doehler Die Casting Company, New York, N. Y., a corporation of New York.

127,168. **DIRECTOR.** GOLF-BALLS. Registered October 21, 1919. THE WORTHINGTON BALL COMPANY, Elyria, Ohio, a corporation of Ohio. Renewed October 21, 1939.

127,289. **RANGER.** BICYCLES. Registered November 4, 1919. MEAD CYCLE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 4, 1939.

127,290. **PATHFINDER.** BICYCLES. Registered November 4, 1919. MEAD CYCLE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 4, 1939.

127,301. **GOODWILL.** MEN'S AND BOYS' LEATHER BOOTS AND SHOES. Registered November 4, 1919. ARTHUR A. WILLIAMS, Holliston, Mass. Renewed November 4, 1939.

127,362. **KWIKSTIK.** MUCILAGE. Registered November 11, 1919. COLUMBIA FASTENER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 11, 1939.

127,382. **ELDER.** CERTAIN NAMED CLOTHING. Registered November 11, 1919. ELDER MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed November 11, 1939.

127,392. **KLEEN KWALITY.** OIL AND GREASE WIPING AND CLEANING CLOTHS. Registered November 11, 1919. AARON FERER & SONS, St. Louis, Mo., and Omaha, Nebr. Renewed November 11, 1939, to Aaron Ferer & Sons, Inc., St. Louis, Mo., a corporation of Missouri, assignee.

127,445. **HOTSTREAM.** GAS, GASOLENE, AND VAPOR WATER-HEATERS AND DRAFT-HOODS THEREFOR. Registered November 11, 1919. LOUIS R. MENDELSON. Renewed November 11, 1939, to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio, assignee.

127,653. **MANOR.** BISCUIT. Registered November 18, 1919. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed November 18, 1939, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

LABELS

REGISTERED JUNE 20, 1939

53,154.—*Title:* WALK MILES WITH SMILES. For Rubber Heels. BORMAN PNEUMATIC HEEL COMPANY, Chicago, Ill. Published May 1, 1939.

53,155.—*Title:* FRUITS, NUTS & SPECIAL PIECES. For Chocolates. DAGGETT CHOCOLATE COMPANY, doing business as F. H. Roberts Company, Cambridge, Mass. Published December 28, 1938.

53,156.—*Title:* GULF WAVE. For Preserved Figs. M. S. DRAKE, Alvin, Tex. Published May 3, 1939.

53,157.—*Title:* FLUFF CREPE. For Toilet Paper. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Published May 10, 1939.

53,158.—*Title:* "JUNKET" FREEZING MIX. For a Freezing Mix for Making Ice Cream. CHR. HANSEN'S LAB., INC., Little Falls, N. Y. Published April 4, 1939.

53,159.—*Title:* HOME TWIST BREAD. For Bread. HOYLER BAKING COMPANY, Escanaba, Mich. Published May 8, 1939.

53,160.—*Title:* NEWPORT DISTILLED DRY GIN. For Distilled Dry Gin. HUNTER BALTIMORE RYE DISTILLERY, INC., Baltimore, Md. Published April 18, 1939.

53,161.—*Title:* KINNEY'S TUB 'O' BUTTER. For Butter. B. R. KINNEY AND SON, INC., Binghamton, N. Y. Published April 10, 1939.

53,162.—*Title:* KINNEY'S TUB 'O' BUTTER. For Butter. B. R. KINNEY AND SON, INC., Binghamton, N. Y. Published April 10, 1939.

53,163.—*Title:* THE CORRECT BELT DISPLAY. For Sport Belts. THE OHIO TEXTILE PRODUCTS COMPANY, Mansfield, Ohio. Published February 23, 1939.

53,164—*Title:* MILWAUKEE CLUB. For Beer. JOS. SCHLITZ BREWING COMPANY, Milwaukee, Wis. Published February 1, 1939.

53,165.—*Title:* VI-LITRON. For Capsules Containing Liver Concentrate and Iron with Biologically Standardized Vitamins B_1, B_2 (G) and C. U. S. VITAMIN CORPORATION, Dover, Del. Published January 3, 1938.

53,166.—*Title:* LEA'S HAIR PREPARATION. For a Preparation for Restoring Color to Gray Hair. VASCO PRODUCTS, INC., doing business as Lea's Tonic Company, Brentwood, Md. Published November 15, 1938.

53,167.—*Title:* LEA'S HAIR PREPARATION. For a Preparation for Restoring Color to Gray Hair. VASCO PRODUCTS, INC., doing business as Lea's Tonic Company, Brentwood, Md. Published November 15, 1938.

53,168.—*Title:* CHOCOLATE FLAVORED OVALTINE. For a Food Beverage. THE WANDER COMPANY, Chicago, Ill. Published February 8, 1939.

53,169.—*Title:* FAWNDALE MARYLAND STRAIGHT RYE WHISKEY. For Straight Rye Whiskey. WILLIAM J. WARDALL, trustee of the estate of McKessen & Robbins, Incorporated, debtor, New York, N. Y. Published April 26, 1939.

PRINTS

REGISTERED JUNE 20, 1939

17,456.—*Title:* MOYRAK. For a Portable Casing or Oil Tool Rack. EDWARD A. BENDER, Bakersfield, Calif. Published January 4, 1939.

17,457.—*Title:* NEW DU PONT PAINT KEEPS WHITE HOUSES WHITER. For Paints and Varnishes. E. I. DU PONT DE NEMOURS & COMPANY, INCORPORATED, Wilmington, Del. Published March 1, 1939.

17,458.—*Title:* "STITCH-IN" ENVELOPES. For The Popular Mechanics Magazine. GARDEN CITY ENVELOPE COMPANY, Chicago, Ill. Published April 14, 1939.

17,459.—*Title:* A COMBINED LIQUID AIR OR CO_2 AIR CHAMBER AND TRAP. For a Combined Liquid Air or CO_2 Air Chamber and Trap. OTTO R. GREINER CO., Newark, N. J. Published March 29, 1939.

17,460.—*Title:* TASTYKAKE. For Cake. TASTY BAKING COMPANY, Philadelphia, Pa. Published May 10, 1939.

17,461.—*Title:* HOW ABOUT A NICE STEAK FOR DINNER TODAY. For Steaks. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

REISSUES

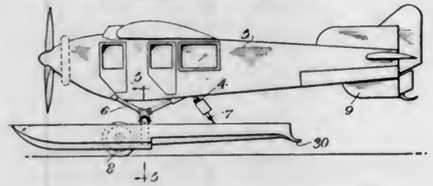
JUNE 20, 1939

21,120
LANDING GEAR FOR AIRCRAFT

Alexander P. de Seversky, New York, N. Y., assignor, by mesne assignments, to Seversky Aircraft Corporation, a corporation of Delaware

Original No. 2,007,752, dated July 9, 1935, Serial No. 272,627, April 25, 1928. Renewed August 10, 1932. Application for reissue July 9, 1937, Serial No. 152,865

9 Claims. (Cl. 244—101)



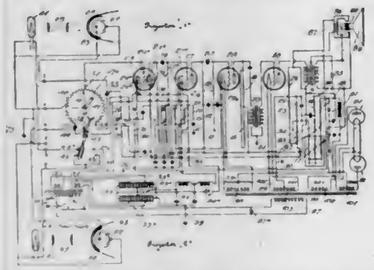
1. An aircraft comprising, in combination, a fuselage, a support dependent therefrom, a pontoon pivoted to said support, a wheel rotatably mounted in said pontoon forward of the pivotal support thereof, a skid at the rear end of said pontoon arranged to cooperate with said wheel to support said pontoon on the ground, an independent skid at the rear of said fuselage rearwardly of said pontoon, substantially as described.

21,121
TALKING MOTION PICTURE APPARATUS

Alwyn D. Lassiter, Philadelphia, Pa., assignor, by mesne assignments, to Western Electric Company, Incorporated, a corporation of New York

Original No. 2,104,428, dated January 4, 1938, Serial No. 603,390, April 5, 1932. Application for reissue April 5, 1939, Serial No. 266,231

22 Claims. (Cl. 179—100.3)



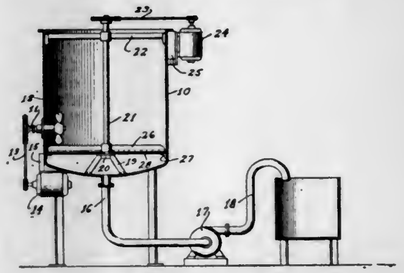
1. Talking motion picture apparatus comprising an amplification system, a sound reproducer connected with said amplification system, a control tube connected with the input of said amplification system, a pair of light sensitive cells subjected to variations of light under control of independent film records, a potentiometer connected between the input circuit of said control tube and said light sensitive cells, and means for variably controlling the effective value of said potentiometer with respect to each of said light sensitive cells and for fading the effect of the sound record to which one of said light sensitive cells is subjected in, while fading the sound record to which the other of said light sensitive cells is subjected out in said sound reproducer, and a source of rectified and filtered alternating current operatively connected to the aforesaid amplification system, the field of the sound reproducer, and the light sensitive cells.

21,122
PROCESS OF FILTERING EGGS

Frank B. Lomax, Chicago, Ill.

Original No. 2,107,040, dated February 1, 1938, Serial No. 78,336, May 7, 1936, which is a division of Serial No. 3,601, January 26, 1935. Application for reissue April 15, 1938, Serial No. 202,350

9 Claims. (Cl. 99—113)



9. The method of filtering eggs which comprises collecting a mass of broken egg material containing egg shell fragments, chalaza, egg meats and the like on one side of a foraminous barrier, applying pressure of a gas directly against the top of said barrier to force egg material downwardly through the barrier and simultaneously therewith disintegrating the chalaza as it collects on the barrier to a size small enough to pass through the barrier leaving any foreign matter including egg shells on the upper side of the barrier.

21,123
METHOD OF TAPING AND BINDING SHOES

Edgar Nevin Meck, Portsmouth, Ohio, assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Original No. 1,909,206, dated May 16, 1933, Serial No. 596,319, March 2, 1932. Application for reissue May 14, 1935, Serial No. 21,484

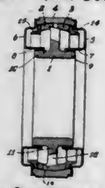
5 Claims. (Cl. 154—42)



1. The method of applying binding to an article consisting of simultaneously stitching tape

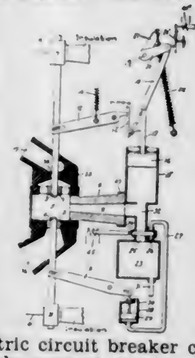
and binding on opposite sides adjacent to the edge being bound, providing said tape with an adhesive on both its faces, folding said binding over said edge and tape and securing said binding and tape to said article by pressure.

21,124
RADIAL PLAIN BEARING FOR GREASE LUBRICATION
Nils Arvid Palmgren, Goteborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden
Original No. 2,053,203, dated September 1, 1936, Serial No. 41,483, September 20, 1935. Application for reissue August 30, 1938, Serial No. 227,535. In Sweden October 20, 1934
6 Claims. (Cl. 308—122)



5. A plain bearing for grease lubrication having a sliding surface for taking thrust; the body of the rotating bearing member enclosing a cavity for grease located substantially nearer to the center of rotation of the bearing than is the thrust taking sliding surface and in direct radial communication with the inner annular edge of the thrust taking sliding surface.

21,125
SWITCH
Sigwart Ruppel, deceased, late of Berlin, Germany, by Frida Strauss, Milan, Italy, heir
Original No. 2,055,312, dated September 22, 1936, Serial No. 738,974, August 8, 1934. Application for reissue August 16, 1938, Serial No. 225,245. In Germany August 19, 1933
13 Claims. (Cl. 200—148)



1. An electric circuit breaker comprising relatively movable contact structure, means operatively related to said contact structure for directing a gas blast to said contact structure upon opening thereof for normally interrupting the circuit, and means responsive to an overload in said circuit for directing a second gas blast of greater magnitude from a source different from that of said first blast to said contact structure.

PLANT PATENTS

GRANTED JUNE 20, 1939

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

331
ROSE PLANT
Jean H. Nicolas, deceased, late of Newark, N. Y., by Fannie Nicolas, administratrix, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y.
Application December 10, 1938, Serial No. 245,033
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, of the Polyantha group, characterized as to novelty by its compact and bushy growth, and its continuous production of large pink colored flowers in large clusters, substantially as shown and described.

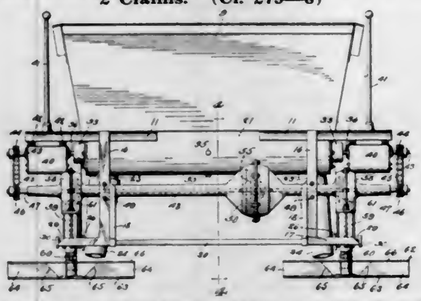
332
ROSE PLANT
Domenico Aicardi, San Remo, Italy, assignor to Jackson & Perkins Company, Newark, N. Y.
Application December 10, 1938, Serial No. 245,041
1 Claim. (Cl. 47—61)

A new and distinct variety of Hybrid Tea rose plant characterized as to novelty by the pink coloring of its flower and the habits of the plant for roses of that color, and the absence of violet tones in all stages of the bud and the flow, substantially as shown and described.

PATENTS

GRANTED JUNE 20, 1939

2,162,689
FERTILIZER DISTRIBUTOR
Alfred Coppock Mayfield, Largo, Fla., assignor to Ken-Jon, Inc., Orlando, Fla., a corporation of Florida
Application March 16, 1936, Serial No. 69,236
2 Claims. (Cl. 275—8)



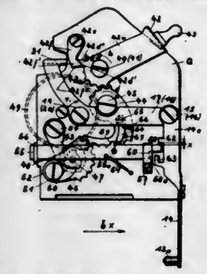
1. In an ambulatory material distributor device of the class described to be drawn by or carried on a vehicle, a hopper, broadcasters supported for rotation adjacent to the hopper and arranged on opposite sides of the vehicle, means for rotating the broadcasters, a conveyor casing into which the hopper discharges, shafts journaled in the conveyor casing, conveyors carried by the shafts, means for conducting material from the conveyors to the broadcasters, a shaft supported for rotation adjacent to the hopper and extending transversely of the vehicle, means for rotating the transverse shaft, means for connecting the transverse shaft with the conveyors, and speed changing devices interposed in the last-specified means.

2,162,690
WATER REPELLENT COATING PROCESS AND PRODUCT PRODUCED THEREBY
Leslie D. Anderson, Carlsbad, N. Mex., assignor to Potash Company of America, Denver, Colo., a corporation of Colorado
No Drawing. Application September 12, 1936, Serial No. 100,491
6 Claims. (Cl. 23—243)

1. The process of giving hygroscopic salts a discontinuous water-repellent coating, which comprises applying a surface coating of oil to the salt particles in moist condition, and then subjecting the coated particles to temperatures of from 500 to 700 degrees Fahrenheit for an interval of from three to twenty minutes.

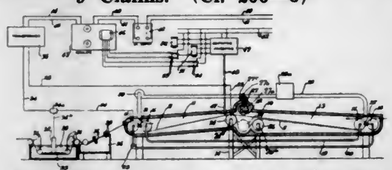
2,162,691
COMPUTING MECHANISM
Robert Anschütz, Zella-Mehlis, Thuringia, Germany, assignor to Mercedes Buromaschinen-Werke Aktiengesellschaft, Benshausen, Germany
Application September 22, 1931, Serial No. 564,453
In Germany November 6, 1930
5 Claims. (Cl. 235—59)

1. In a combined typewriting and computing machine, the combination with an accumulator having a sight opening therein and denominational value wheels movable step by step and visible through said opening, of a shutter for blinding said opening and movable in opposite directions into and from blinding position, respectively, a drive between said shutter and one



of said wheels operative by movement of said shutter in one direction to impart a step of rotation to said wheel, and clear sign printing mechanism automatically operative under the conjoint control of said wheels and shutter.

2,162,692
CONTINUOUS STRIP FURNACE
Thaddeus F. Baily, Alliance, Ohio
Application November 11, 1935, Serial No. 49,126
9 Claims. (Cl. 266—3)

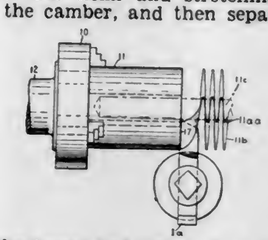


1. A continuous strip furnace including an elongated heating chamber, means for maintaining a nonoxidizing atmosphere in the heating chamber, means for passing a metal strip through the furnace, an aqueous electric contact spaced from the entrance end of the furnace, and a contact roll in circuit with said electric contact, within the heating chamber adjacent to the discharge end thereof, means for cooling said contact roll and a roll adjustable relative to said contact roll for varying the area of the strip contacting said contact roll whereby the strip is heated by electric resistance and then rapidly cooled as it passes through the furnace.

2,162,693
METHOD OF MAKING A HEAT EXCHANGE ELEMENT
Alfred J. Berg, Portsmouth, N. H., and John O. Huse, United States Navy
Application August 4, 1937, Serial No. 157,378
7 Claims. (Cl. 29—157.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

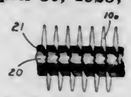
1. The method of making a helical fin of relatively wide, thin metal having a longitudinal opening through its center and the helix cambered in cross-section comprising separating from the end of a tubular bar of metal a central initial

portion of the helix and stretching the same to form the camber, and then separating from



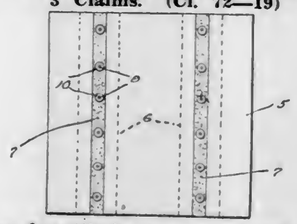
the bar the inner and outer edges of the separated and stretched portion of the helix.

2,162,694
PROCESS OF MAKING A HEAT EXCHANGING ELEMENT
Alfred J. Berg, Portsmouth, N. H., and John O. Huse, United States Navy
Application August 4, 1937, Serial No. 157,380
2 Claims. (Cl. 29—157.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of cold working the edge of a strip of metal adapted to contact with a heat exchanger element, comprising forming alternate projections and depressions in said edge of said strip by flowing metal of said edge from the area of the depressions into the area of the adjacent projections and flattening at least the peaks of said projections by lateral displacement of the metal from said peaks into alternate projections from opposite sides of the strip.

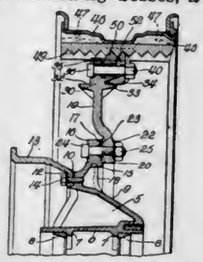
2,162,695
TILE
John B. Boyd, Sr., Reno, Nev.
Application May 4, 1938, Serial No. 206,059
3 Claims. (Cl. 72—19)



1. A surface tile having a plurality of rows of relatively spaced sharpened anchoring shanks projecting from one face thereof, said shanks being provided with integral shoulders spaced intermediately between said face of the tile and the free extremities of the shanks for spacing the tile from the studding or bedding penetrated by said elements.

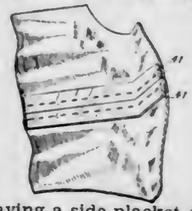
2,162,696
WHEEL
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application December 7, 1936, Serial No. 114,564
15 Claims. (Cl. 301—12)

2. A wheel comprising a wheel hub having coplanar radially outwardly extending bosses, a ring secured to said wheel hub bosses and having a laterally offset peripheral portion provided with outwardly extending bosses, a tire rim, in-



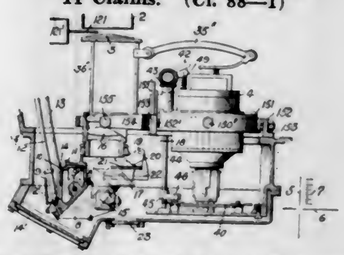
wardly extending blocks secured to the rim and having serrated seating surfaces, and lug means carried by said axially offset bosses and engaging in said seating surfaces for mounting said rim on said ring.

2,162,697
GARMENT
William James Jones, Forest Hills, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application August 30, 1937, Serial No. 161,569
3 Claims. (Cl. 2—74)



1. A dress having a side placket opening in the inwardly curved portion of the dress, the edges of the material adjacent the opening being folded under to provide a wide flap which may be let out as desired to increase the waist size, the edges of the material which constitute the outer edges of the flaps being longer than the material at the line of the fold, and a continuous fastener means for closing the opening.

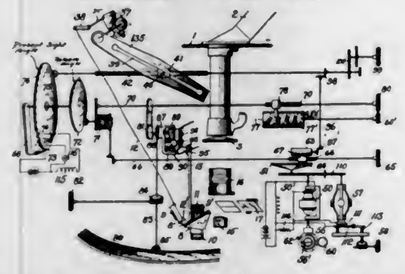
2,162,698
BOMB SIGHT
Earl W. Chafee, New York, and Hugh Murtagh, Brooklyn, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application June 18, 1932, Serial No. 618,080
Renewed January 14, 1938
11 Claims. (Cl. 88—1)



1. In a bomb sight for aircraft, a pivotally

mounted reflector to sight and follow a remote target as it is approached, an independently mounted reticule on which the ground image from said reflector is focused, a gyroscope connected to said reticule to stabilize the same against rolling and pitching of the craft, and a slidably mounted auxiliary reflector adapted to direct an image of the ground vertically below the craft onto said reticule in one position and to lie entirely out of the field of vision of said sight in its other position.

2,162,699
BOMB SIGHT
Earl W. Chafee, New York, N. Y., and Howard C. Van Auken, Bloomfield, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application February 20, 1936, Serial No. 64,840
Renewed March 11, 1939
12 Claims. (Cl. 33—46.5)



1. In a bomb sight, a variable speed device for maintaining the line of sight on the target, comprising a revoluble disc, a roller driven thereby, means for radially adjusting the roller on the disc, means for rotating the line of sight from said roller, and means for varying the speed of said disc inversely in accordance with altitude, whereby range is indicated directly by the radial position of said roller.

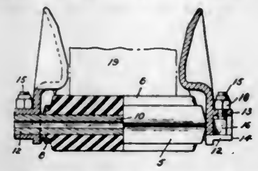
9. In a bomb sight for aircraft, means for rotating the line of sight to keep the same on a target, including a member rotatable about a center for rotating the line of sight, a rectilinearly movable member for rotating said rotatable member, whereby the rate of movement thereof equals ground speed (GS) with respect to the altitude ratio

$$\left(\frac{H}{H'}\right)$$

or instantaneous scale of the machine, a variable speed gear for moving said rectilinearly movable member, said gear including a disc driven at a speed proportional to a function of the time of fall of the bomb, and a roller carriage radially positioned thereon to keep the sight on the target, whereby the radial position of said roller carriage on said disc is proportional to the whole range (R_{WA}) with respect to said instantaneous scale of the machine.

2,162,700
VEHICLE TRACK CHAIN
John K. Christmas, United States Army, Easton, Pa.
Application September 20, 1937, Serial No. 164,748
5 Claims. (Cl. 305—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a track chain for vehicles, a series of spaced shoes, each shoe including a metal band having walls angular in cross-section with the angle directed outwardly, a decahedral block of rubber or rubber-like material having walls complementary to those of the band and forced into the band, said block being of greater height than

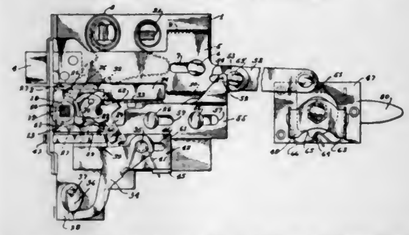


the band to form inner and outer treads and a pair of link pins forced through the rubber and gripped thereby, the ends of the link pins projecting beyond the band, and links rigidly connecting the projecting ends of adjacent link pins of adjacent shoes.

2,162,701
MANUFACTURE OF ARTICLES FROM POWDERED METALS
Gregory J. Comstock, Fairfield, Conn., assignor to Handy & Harman, Bridgeport, Conn., a corporation of New York
No Drawing. Application December 28, 1937, Serial No. 182,162
17 Claims. (Cl. 41—23)

9. The method of making mosaics from powdered metals, which comprises forming a plurality of sintered bodies of different compositions by the simultaneous application of heat and pressure to the powdered metals, the bodies being easily workable by sawing, filing, cutting or abrading, dividing the bodies into pieces, assembling the pieces in contact with each other to form a mosaic, and subjecting the assembly to the simultaneous application of heat and pressure to weld the contacting surfaces together and consolidate the pieces into a continuous structure.

2,162,702
LOCK MECHANISM
Edward D. Dall, North Chicago, Ill., assignor to Walter F. Wright, Shaker Heights, Cleveland, Ohio
Application February 28, 1936, Serial No. 66,149
3 Claims. (Cl. 70—149)



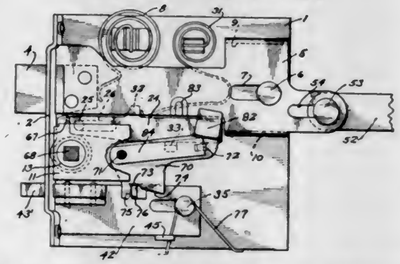
1. In lock structure of the class described, a latch bolt, a roll-back and turning means therefor, a retractor element normally positioned to form a connection between said rollback and said latch bolt for retraction of said latch bolt when the rollback is turned by said turning means, a cam element operable by said turning means independently of said rollback to shift said retractor element to break said connection whereby to lock said latch bolt against retraction by said rollback, and means for holding said cam element in such connection breaking position.

2,162,703
AUTOMOBILE DOOR LOCKING SYSTEM AND MECHANISM
Edward D. Dall, Waukegan, Ill., assignor to Walter F. Wright, Shaker Heights, Cleveland, Ohio
Application March 27, 1937, Serial No. 133,362
3 Claims. (Cl. 70—147)



1. In a door, means for holding said door closed, means on the exterior of said door movable in one direction to release said holding means, means operable from the interior of said door to lock and unlock it, means operable by the exterior door means in the opposite direction for operating said interior means to unlock said door, and means for locking said exterior door means against operation in said opposite direction.

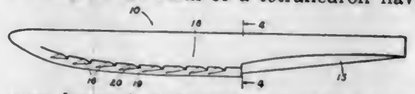
2,162,704
LOCK MECHANISM
Edward D. Dall, North Chicago, Ill., assignor to Walter F. Wright, Shaker Heights, Cleveland, Ohio
Original application February 28, 1936, Serial No. 66,149. Divided and this application October 15, 1937, Serial No. 169,104
5 Claims. (Cl. 292—164)



1. In lock structure of the class described, a housing, a latch bolt shiftable in said housing and normally projecting therefrom in latching position, a roll-back, a retractor member normally affording a connection between said roll-back and the latch bolt for retraction of the latch bolt by operation of the roll-back, a pin shiftable in said housing and normally projecting to the exterior thereof, a lever movable by shift of said pin to move said retractor member to break said connection between the roll-back and latch bolt, and means controlled by inward shift of the latch bolt to free said lever from said retractor member to permit said retractor member to re-establish said connection.

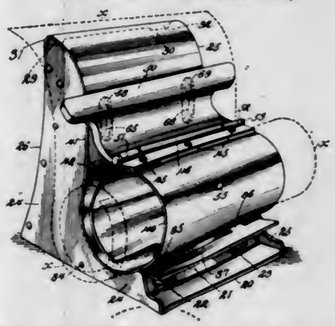
2,162,705
HULL SPRAY REDUCING CONSTRUCTION
Walter S. Diehl, United States Navy
Application January 22, 1938, Serial No. 186,326
6 Claims. (Cl. 114—66.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A hull spray reducing construction comprising a plurality of steps placed along the outer under edges of the bottom of the hull, said steps each being in the form of a tetrahedron having



its apex forward of its base and having its base side coinciding with the chine of the hull.

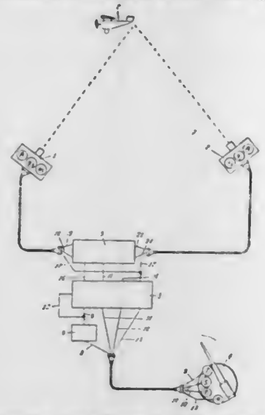
2,162,706
COPY HOLDER
Nugent Dodds, Washington, D. C.
Application September 22, 1934, Serial No. 745,134
Renewed September 10, 1938
11 Claims. (Cl. 120—32)



1. In a copy holder the combination of a hollow tubular paper retainer for receiving a sheet of copy and having an exit opening extending lengthwise thereof and through which said sheet may be withdrawn; an upwardly disposed extension member facing toward the front of the holder and positioned to guide the sheet upwardly and in front thereof as said sheet is withdrawn from the retainer; a presser member adapted to be swung either to a closed active position in which it bridges the exit slot of the retainer and presses the sheet of copy toward said extension member, or to an open position; and paper feeding means for moving the sheet upward out of the retainer and in front of said extension member, said means including spaced rotatable feed members projecting forwardly through said extension member for engagement with the sheet opposite the engagement thereof by the presser member and said feed members being mounted to be movable in response to the pressure of said presser member to approximately equalize the pressure upon the sheet between each feed member and said presser member.

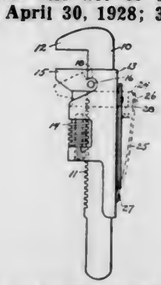
2,162,707
APPARATUS FOR MEASURING ERRORS OF AIMING AND FIRING IN PRACTICE FIRING AGAINST MOVING TARGETS
Friedrich Ernst Fischer, Erlenbach, Switzerland, assignor to the firm Contraves A.-G. Zurich
Application November 7, 1936, Serial No. 109,802
In Switzerland August 6, 1936
11 Claims. (Cl. 35—25)

1. Apparatus for photogrammetrically measuring sighting and gunnery errors in gun practice against moving targets, such as aircraft, comprising at least two photo-theodolites provided with shutter mechanisms, means for electrically connecting said photo-theodolites with the gun and its ignition timing machine, mechanism controlled by impulses transmitted by said connecting means and corresponding to the gun coordinates for directing said photo-theodolites in accordance with the adjustments of the gun and ignition timing machine, mechanism connected in said conductors for transforming the transmitted gun coordinates into appropriate photo-theodolite values, means controlled from the gun for actuating the shutter mechanism of the photo-theodolites, and a delayer device in the electrical conductors between the gun and its



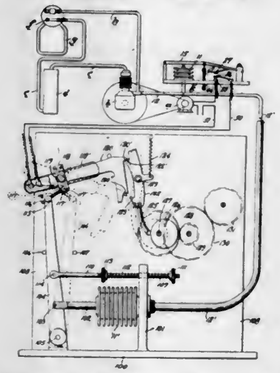
ignition timing machine on the one hand and the photo-theodolites on the other for increasing artificially the time of transmission of the values of the gun and its ignition timing machine to the photo-theodolites by the time of flight of the projectile, so that the photo-theodolites are directed upon the same point of aim as the gun, but always after the instant of the discharge of the projectile by a time interval corresponding to the time of flight of the projectile.

2,162,708
WRENCH
Joseph P. Genard, Fort Stevens, Oreg.
Application April 20, 1938, Serial No. 203,080
2 Claims. (Cl. 81—94)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



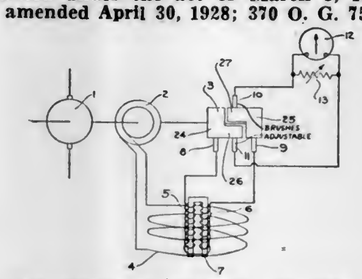
1. A wrench including a stationary jaw and a crank arm, a carriage adjustable on the crank arm and provided with transversely extending passages, a jaw pivotally attached to the forward portion of the carriage, said jaw being formed with a cam surface, camming and supporting means associated with the carriage and coacting with the movable jaw, said means comprising parallel laterally spaced interconnected lug members slidable within said passages and spring means mounted on the rearward portion of said carriage and engaging said lug members to normally retain the latter in a retracted position, said spring means functioning when depressed to extend the lug members into camming and supporting relation with respect to said pivoted jaw and when released to return said lug members to their normal positions.

2,162,709
DEFROSTING OF REFRIGERATORS
Edwin R. Gill, Sr., Yonkers, N. Y., assignor, by mesne assignments, to General Motors Corporation, a corporation of Delaware
Original application May 7, 1930, Serial No. 450,451. Divided and this application July 30, 1935, Serial No. 33,812
27 Claims. (Cl. 62—4)



1. A refrigerating system including means to supply energy thereto, a first energy supply control member, a second energy supply control member, said members being arranged in series with respect to supply of energy, means responsive to variations in temperature below a given temperature to actuate said first energy supply control member, means to periodically actuate said second energy supply control member to restrain the energy supply, and means responsive to temperature above said given temperature to actuate said second energy supply control member to restore the supply of energy.

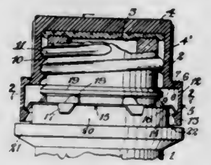
2,162,710
APPARATUS AND METHOD FOR DETECTING DEFECTS IN METALLIC OBJECTS
Ross Gunn, Washington, D. C.
Application August 5, 1936, Serial No. 94,369
23 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of detecting any difference in depth between defects below the surface of electrically conductive objects which comprises induc-

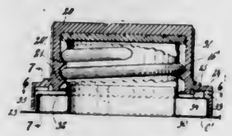
ing eddy currents of a predetermined distribution in a substantially homogeneous portion of the object to be tested, noting the departures from the aforementioned distribution occasioned by a plurality of defects by measuring the electromagnetic fields generated by said eddy currents and comparing the phase of the electromagnetic fields fixed by one defect with the phase of the electromagnetic fields fixed by another defect whereby to determine any difference in depth between a plurality of defects in the object.

2,162,711
TAMPERPROOF CLOSURE
John Hamberger, New York, N. Y.
Application March 31, 1936, Serial No. 71,847
4 Claims. (Cl. 215—7)



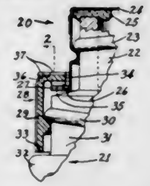
1. In combination, a container provided with a neck having threads thereon and an annular groove spaced from said threads, a closure formed with internal threads coacting with the threads on said neck whereby said closure may be moved to a position for closing the opening in said neck, said closure having a frangible extending shoulder and an apron thereon formed with a thickened beveled lower edge provided with an annular upper shoulder, and a ring positioned within said annular groove having means extending in one direction anchoring the ring to the neck, and breaking members extending in the opposite direction to a point engaging said shoulder whereby when said closure is rotated so as to unscrew the same said shoulder will coact with the last-mentioned members and cause said apron to move radially whereby it will become broken.

2,162,712
CONTAINER AND CLOSURE THEREFOR
John Hamberger, Richmond Hill, N. Y.
Application July 9, 1936, Serial No. 89,755
3 Claims. (Cl. 215—7)



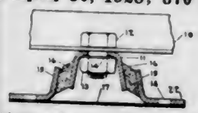
3. A device including a container having an outlet, a metallic neck secured to the container at the outlet, a closure cap threadedly connected to the neck and having an integral laterally extending readily breakable annular flange, said metallic neck having an annular outward extending integral shoulder underlying said flange, said shoulder having resilient upward extending ratchet like prongs formed therefrom, and the flange having on its underside teeth for engagement with said prongs to resist unscrewing of the cap without breakage of said flange, and said flange having an annular depending skirt extending around the shoulder and serving to conceal said prongs.

2,162,713
TAMPERPROOF CLOSURE
John Hamberger, Richmond Hill, and Adolf Schauer, Ridgewood, N. Y.; said Schauer assignor to said Hamberger
Application February 20, 1937, Serial No. 126,758
8 Claims. (Cl. 215—7)



1. A device including a container, a closure threadedly connected to the container, said closure having an outward extending flange confined to the base thereof, an annular frangible indicating member connected to the container and having a flange overlying the closure flange, and means between said flanges to interlock the same against relative angular movement of the closure and indicator member to prevent removal of the closure without breaking the indicator member, said means extending along a plane substantially at right angles to the axis of the container and being operative along said plane, said means including a plane ratchet ring portion, the connections between the container and the closure and indicator member being so coordinated with said means as to permit the indicator member to be connected to the container without any substantial change in size or shape and to prevent removal of the indicator member without breaking the same.

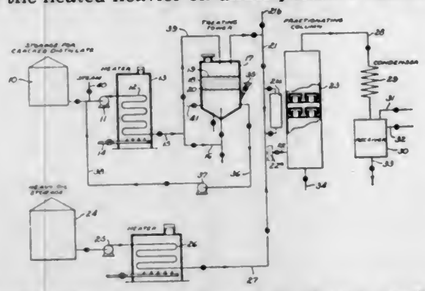
2,162,714
VIBRATION DAMPENING FITTING
Clyde M. Hamblin, Washington, D. C.
Application October 8, 1937, Serial No. 167,892
1 Claim. (Cl. 248—358)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a vibration absorption device of the type having a central load bearing member and a plurality of individual legs joined to the load bearing member by a vibration absorption means vulcanized therebetween, means forming a permanent part of said device for holding said legs against lateral displacement relative to each other while the load is being applied to the load bearing member, said means comprising a rigid plate-like tie member permanently secured to each individual leg, whereby said legs are held at a fixed lateral distance from each other at all times, whether loaded or unloaded.

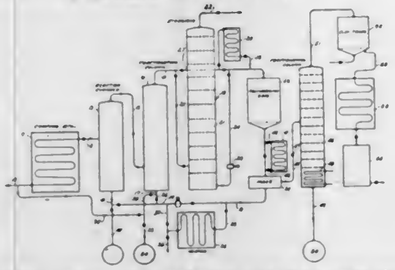
2,162,715
PROCESS FOR REFINING CRACKED PETROLEUM DISTILLATE
William Thornhill Hancock, Long Beach, Calif.
Application September 1, 1937, Serial No. 161,954
8 Claims. (Cl. 196—147)

1. The process for refining cracked petroleum distillate that includes, subjecting heated cracked distillate containing a gasoline fraction to polymerization by passing the distillate at a temperature of at least about 200° F. but below the temperature of cracking, through a body of adsorptive material, heating an independent heavier oil having a substantially higher boiling range than said gasoline fraction, mixing said distillate after passage through said adsorptive material and while heated, with a substantially large quantity of the heated heavier oil under pressure sufficient



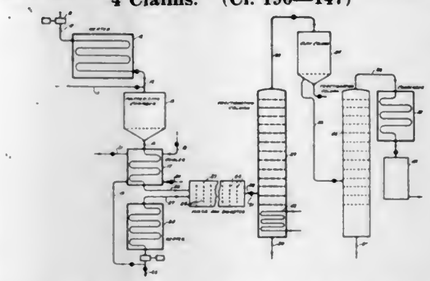
to maintain the major portion of said gasoline constituents of said distillate in liquid phase during the mixing, then reducing the pressure of the mixed oils and vaporizing said gasoline fraction from the heavier oil by virtue of the pressure reduction and heat contained in the mixed oils, leaving polymerized and sulphur containing constituents of the distillate in the unvaporized oil, and condensing the vaporized gasoline fraction.

2,162,716
PROCESS OF REFINING CRACKED PETROLEUM DISTILLATE
William T. Hancock, Long Beach, Calif.
Application October 19, 1938, Serial No. 235,768
5 Claims. (Cl. 196—147)



1. The process of refining cracked petroleum distillate that includes, stabilizing heated cracked distillate containing a gasoline fraction by passing the distillate through a stabilizing zone and removing from the distillate sulphur containing gases and hydrocarbons lighter than said gasoline fraction, then subjecting to polymerization a stream of said heated distillate flowing from said stabilizing zone by passing the distillate through a body of adsorptive material while maintaining the distillate at least at a polymerizing temperature but below the temperature of cracking, heating a heavier oil having a substantially higher boiling range than said gasoline fraction, mixing said heated polymerized distillate with a substantially large quantity of the heated heavier oil under pressure sufficient to maintain the major portion of the gasoline constituents of said distillate in liquid phase during the mixing, then reducing the pressure of the mixed oils and vaporizing said gasoline fraction from the heavier oil by virtue of the pressure reduction and heat contained in the mixed oils, leaving polymerized and sulphur containing constituents of the distillate in the unvaporized oil, and condensing the vaporized gasoline fraction.

2,162,717
PROCESS OF REFINING CRACKED PETROLEUM DISTILLATES
William T. Hancock, Long Beach, Calif.
Application November 1, 1938, Serial No. 238,214
4 Claims. (Cl. 196—147)



1. The process of refining cracked petroleum distillate that includes, subjecting heated cracked distillate containing a gasoline fraction to polymerization by passing the distillate at a temperature of at least about 200° F. but below the temperature of cracking, through a body of adsorptive material, heating an independent heavier oil having a substantially higher boiling range than said gasoline fraction, mixing said distillate after passage through said adsorptive material with a substantially large quantity of the heated heavier oil under pressure sufficient to maintain the major portion of said gasoline constituents of said distillate in liquid phase during the mixing, maintaining the admixed oils in an enlarged digesting zone for a period of at least about two minutes, then reducing the pressure of the mixed oils and vaporizing said gasoline fraction from the heavier oil by virtue of the pressure reduction and heat contained in the mixed oils, leaving polymerized and sulphur containing constituents of the distillate in the unvaporized oil, and condensing the vaporized gasoline fraction.

2,162,718
LEAF SPRING LUBRICATOR
Herbert H. Hasche, Los Angeles, Calif.
Application February 4, 1938, Serial No. 188,729
7 Claims. (Cl. 267—50)



1. A leaf spring lubricator comprising a lubricating plate adapted to be inserted between contiguous leaves of a leaf spring and having holes therein for the reception of lubricant, said holes extending through said plate whereby said lubricant is distributed to both of the associated spring leaves, both surfaces of said lubricating plate being smooth whereby it is free to move with respect to both of said spring leaves, said plate also having a recess therein, an anchoring plate disposed within said recess, and means on said anchoring plate for attaching it to one of said spring leaves, said anchoring plate fitting loosely within said recess to permit a limited degree of move-

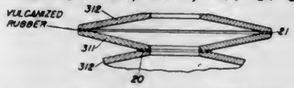
ment of said lubricating plate with respect to the spring leaf to which said anchoring plate is fastened.

2,162,719

COMBINATION SPRING BELLOWS CONTROL DEVICE

Donald L. Hay, deceased, late of Washington, D. C., by Matilda K. Hay, executrix, Washington, D. C.

Application June 14, 1938, Serial No. 213,727
5 Claims. (Cl. 267—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A combination spring bellows control device comprising resilient dished washer members, said resilient dished washer members being stacked with their convex sides alternately up and down, and means for sealing the contacting inner and outer edges of said dished washer members to each other, said sealing means comprising a gasket member placed between each of the inner and outer contacting faces, said gasket member being of vulcanized rubber, bonded to each contacting face.

2,162,720

ASPHALTIC SAND ROCK COMPOSITION AND PROCESS FOR PRODUCING SAME

Garde James Hines, Kansas City, Mo.

No Drawing. Application May 28, 1935, Serial No. 23,949
11 Claims. (Cl. 106—31)

1. The process for producing an asphaltic sand rock composition of the character described consisting in the steps of pulverizing asphaltic sand rock containing approximately 12 to 14 percent asphalt to a fineness capable of passing a 40 to 60 mesh screen; mixing with said pulverized asphaltic sand rock, sulphur, sulphide of iron and calcium carbonate in a suitable container in amounts equal to approximately 3 to 10 percent, 2½ to 7 percent and ½ to 1¼ percent respectively in proportion to the weight of said asphaltic sand rock; agitating said mixture; and simultaneously advancing said agitated mixture through said container while subjected to heat progressively increased from approximately 250° F. at the entrance of said container to approximately 1000° F. at the exit of said container, and drawing off volatile components of said mixture during advancement of the heated mixture.

2,162,721

PRODUCTION OF D-RIBOSE FROM CALCIUM D-ALTRONATE

Claude S. Hudson, Washington, D. C., and Nelson K. Richtmyer, Greene County, N. Y., assignors to the Government of the United States, as represented by the Secretary of the Treasury

No Drawing. Application August 19, 1938, Serial No. 225,806
2 Claims. (Cl. 260—209)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

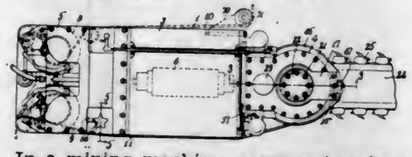
1. The process of converting calcium d-altronate to d-ribose by boiling together in aqueous solution barium acetate, ferrous sulphate and calcium d-altronate, removing the filtrate from the barium sulfate precipitate, oxidizing the filtrate with hydrogen peroxide, and extracting the d-ribose from the oxidized filtrate.

2,162,722

MINING MACHINE

Joseph F. Joy and Clyde P. Baldwin, Claremont, N. H., assignors to Sullivan Machinery Company, a corporation of Massachusetts

Original application March 30, 1936, Serial No. 71,654. Divided and this application August 30, 1937, Serial No. 161,571
10 Claims. (Cl. 262—30)



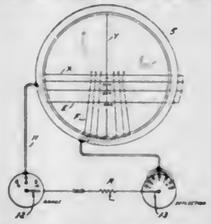
1. In a mining machine, a support, a hanger frame swivelled on said support and having an annular flange surrounding the swivel axis thereof, said support and hanger frame cooperating to provide an annular chamber, a kerf-cutter carried by said hanger frame, and means for locking said hanger frame to said support comprising a frictional locking band arranged wholly within said chamber and engageable with an annular frictional locking surface on said hanger frame flange and means within said chamber for operating said locking band.

2,162,723

SIGHTING APPARATUS

James C. Karnes, Buffalo, N. Y.

Application October 15, 1937, Serial No. 169,196
2 Claims. (Cl. 33—52)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



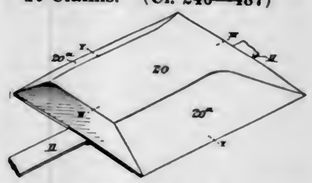
2. In a sighting apparatus, an arrangement of spaced wires one of which represents an origin and the others of which represent by their distance from the origin wire data to be applied to a gun, an electrical circuit containing the wires, and a switch in said circuit for controlling incandescence of any selected one of said wires.

2,162,724

TRACK TORPEDO

Hugh Williamson Kelly, Woodbridge, N. J.

Application March 21, 1936, Serial No. 70,094
10 Claims. (Cl. 246—487)



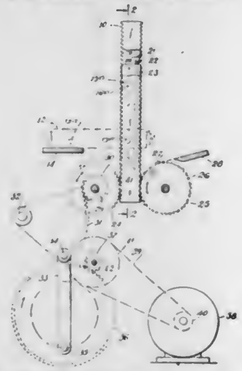
1. A track torpedo comprising telescopic shells of non-metallic material of substantially similar shape and size; one of said shells containing a detonating charge and the other and outer shell being made of a section of once-folded paper with overlapping end portions and shaped to provide between its plies a pocket with a closed end; said pocket serving to telescopically receive the charge-container, and a retaining strap underlying said torpedo and carried by one of the overlapping ends of said folded paper section forming the outer shell.

2,162,725

UPRIGHT PRINTING PRESS

William M. Kelly, Westfield, N. J.

Application January 19, 1938, Serial No. 185,746
5 Claims. (Cl. 101—277)



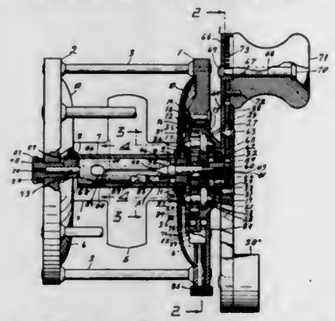
1. In a vertical printing press, in combination, a bed unit member mounted for vertical reciprocating movement, a vertical bed member in said unit having chase supporting means on its vertical front face, means supporting the bed in the unit for swinging movement rearwardly from vertical to horizontal positions, manually operable means on one member cooperating with the other to lock the bed in vertical position, and means to reciprocate said unit.

2,162,726

FISHING REEL

Frank A. King, Los Angeles, Calif.

Application October 25, 1935, Serial No. 46,747
22 Claims. (Cl. 242—84.5)



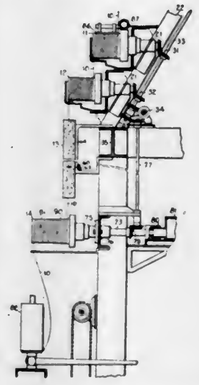
1. In a fishing reel, a frame, a spool, a drag element carried interiorly of said frame and engageable with said spool, means for driving said spool including a crank, a turnable handle on said crank, and means connected with said handle and operable by the rotation thereof for placing said drag element in and out of operative connection with said spool.

2,162,727

PROCESS OF AND APPARATUS FOR DRYING THREAD OR THE LIKE

Hayden B. Kline, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application September 7, 1937, Serial No. 162,702
14 Claims. (Cl. 34—29)



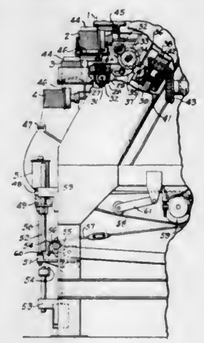
13. The process of continuously drying wet thread which comprises applying heat to the thread while advancing it endwise and thereafter applying heat to the thread while advancing it in the form of a traveling helix.

2,162,728

MANUFACTURE OF THREAD OR THE LIKE

Walter F. Knebusch and Alden H. Burkholder, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application February 1, 1936, Serial No. 61,955
7 Claims. (Cl. 18—8)



1. Apparatus for the manufacture of thread or the like comprising, in combination, a thread-storage device of cantilever form on which, by the action of the elements thereof, the thread or the like is positively advanced in generally helical form toward the free end of the device; means for drying the thread or the like on said thread-storage device; and means disposed directly below the free end of said thread-storage device for twisting the thread or the like immediately after completion of the drying operation.

2,162,729

METHOD OF PREPARING FEED MATERIAL

Arthur A. Levinson, Chicago, and James L. Dickinson, Itasca, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application June 8, 1938, Serial No. 212,608
9 Claims. (Cl. 99—2)

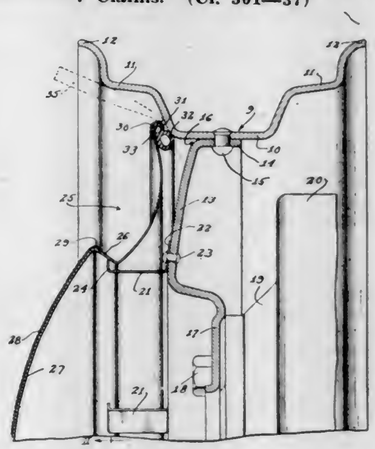
1. The process of preparing a feed material which comprises subjecting solvent extracted soy bean meal containing from 4.5 to 7% moisture to a pressure between 2,000 and 5,000 pounds per square inch for a time and at a temperature sufficient to convert the moisture into steam whereby the meal is disembittered, and to toast the meal without scorching.

2,162,730

ORNAMENTAL WHEEL DISK STRUCTURE

George Albert Lyon, Allenhurst, N. J.

Application December 19, 1934, Serial No. 758,178
7 Claims. (Cl. 301—37)



1. The combination with a wheel including rim and body parts, of an ornamental wheel disk for disposition on the outer side of the wheel having an intermediate generally radially inwardly directed annular reentrant portion, and a plurality of spring elements secured to an outer surface of the body part and projecting axially beyond the dimensions of the body part, each of said elements being substantially parallel to the axis of the wheel and having free ends over which said reentrant portion of the disk is adapted to be cammed so that the disk may be retained in position on the wheel solely by said elements with said disk contacting only said elements and a radially outwardly spaced portion of said wheel.

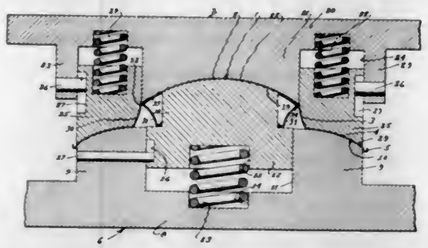
2,162,731

METHOD OF AND APPARATUS FOR DIE-FORMING PARTS

George Albert Lyon, Allenhurst, N. J.

Application March 30, 1935, Serial No. 13,814
Renewed August 10, 1938
7 Claims. (Cl. 153—1)

1. The method of joining a crown-shaped part having a skirt to a circular member, including holding the circular member rigidly within the crown part, compressing the crown part while preventing outward deflection of the skirt thereof by a sloping wall, and holding the top of the crown part rigid to force the skirt inwardly into intimate clinching engagement with said member.



2. In apparatus for shaping a disc-like part having crown and ring portions and a wall portion connecting said crown and ring portions, cooperative die parts including a member for engaging the crown of said parts, an annular member concentric with said crown engaging member and mounted for relative axial movement with respect thereto for engagement with the ring portion of said parts, said annular member having a sloping wall corresponding in shape to the wall portion of said part and arranged to initially contact the same, and a base member for engaging the opposite side of the ring portion from said annular member, said crown engaging member and said base member being movable toward each other, whereby said side wall is collapsed into an inwardly extending annular portion.

3. In apparatus for uniting a disc-like part having crown and ring portions and an intermediate connecting wall portion to another part, compression means for forming an inwardly extending annular indentation in the wall portion of said disc-like part for extension into locking engagement with said other part comprising a member for engaging the crown of said part, an annular member concentric with said crown engaging member and mounted for relative axial movement with respect thereto for engaging the ring portion of said disc-like part, said annular member having a wall for restraining outward collapse of the wall portion of said disc-like part, and a base member for engaging the opposite side of the ring portion of said disc-like part from said annular member, said crown engaging member and said base member being movable toward each other thereby to compress said crown portion in an axial direction with respect to said ring portion, whereby an annular indentation is formed in said side wall of said disc-like part extending into locking engagement with said other part.

2,162,732

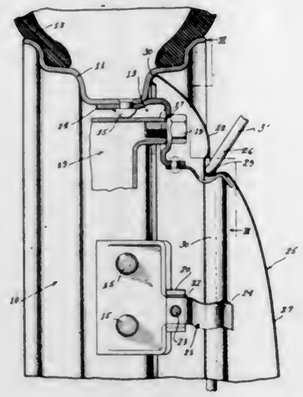
ORNAMENTAL BEADED WHEEL DISK

George Albert Lyon, Detroit, Mich.

Application December 13, 1935, Serial No. 54,161
4 Claims. (Cl. 301—37)

1. An ornamental wheel disk provided with a central crown portion, an outer marginal portion, and an intermediate annular reentrant groove for enhancing the appearance of the disk and for providing the disk with a rearwardly projecting concealed annular flange adapted to be engaged by resilient disk-retaining means, said flange extending axially and radially inward between the outer edge of the crown portion and the inner edge of said outer portion, said disk having its outer peripheral portion formed into a turned

edge and being of such a diameter as to engage guidingly the rim of the wheel for guiding the



disk into engagement with retaining means on the wheel.

2,162,733

METHOD OF MAKING A MULTIPIECE ARTICLE

George Albert Lyon, Detroit, Mich.

Application March 20, 1936, Serial No. 69,845
3 Claims. (Cl. 113—116)



1. The method of making a multi-piece article which consists in forming a single sheet of material into a central crown portion and an outer ring portion extending substantially transverse to the central axis of said crown portion and connected by an intermediate portion disposed substantially transverse to the general plane of the ring portion, deflecting said intermediate portion toward said central axis and under the outer edge of said crown portion to provide a turned under flange for said crown portion at a reentrant angle to said ring portion and to bring the innermost margin of said ring portion radially inward of said outer edge of the crown portion so as to form a seat for accommodating said flange after it has been severed from said ring portion, and then severing said ring portion from said flange at the bottom of said reentrant angle to form said crown portion with its flange and said ring portion into two separate pieces so arranged that the outer edge of the former may overlap the inner edge of the latter.

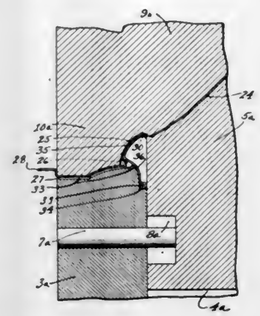
2,162,734

METHOD OF JOINING PARTS

George Albert Lyon, Detroit, Mich.

Application May 29, 1936, Serial No. 82,403
5 Claims. (Cl. 113—116)

1. The method of forming a fastening flange and joining the same to a wheel covering member having an undercut indentation forming an inside shoulder, including placing a ring-like member in said covering member, and applying sufficient pressure to said ring-like member to



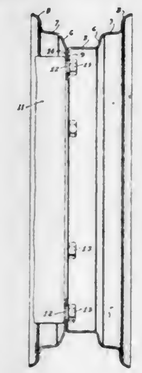
collapse the same outwardly over and behind said shoulder.

2,162,735

METHOD OF MAKING A WHEEL

George Albert Lyon, Allenhurst, N. J.

Application July 20, 1936, Serial No. 91,503
Renewed November 9, 1938
3 Claims. (Cl. 29—159.01)



3. The process of making a vehicle wheel from a drop center rim which includes forming a drop center rim including side flanges and a base flange wider than that desired in the wheel to be fabricated, intimately embracing and holding each of the side flanges about its entire circumference, and then applying an axial pressure to said rim to collapse an intermediate portion of said base flange between the held side flanges thereby providing a wheel body part with a tire rim part thereabout.

2,162,736

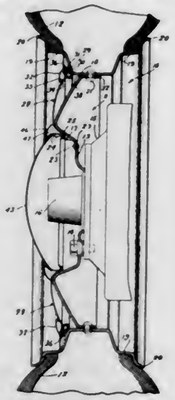
ORNAMENTAL WHEEL DISK STRUCTURE

George Albert Lyon, Allenhurst, N. J.

Original application November 26, 1934, Serial No. 754,699. Divided and this application June 4, 1938, Serial No. 211,777
9 Claims. (Cl. 301—37)

1. In a wheel assembly including a vehicle wheel having a plurality of substantially axially outwardly extending resilient wheel disk mounting fingers and a wheel disk mounted thereon and held in position by the resilient action of said

mounting fingers, said wheel disk comprising a central crown portion and an integral ring por-



tion, said crown portion and said ring portion being joined by an integral annular rearwardly extending folded portion.

2,162,737

PROCESS FOR PRODUCTION OF STABILIZED CRYSTALLINE PROTEOLYTIC ENZYMES

Randolph T. Major, Plainfield, and Alphonse Walti, Westfield, N. J., assignors to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application September 4, 1936, Serial No. 99,418

4 Claims. (Cl. 195—66)

4. In the process for the stabilization of crystalline proteolytic enzyme from ficus latex, the steps which comprise filtration in an acidulated aqueous solution of an acidity of the order of about 0.001 N-hydrochloric acid, freezing the wet crystals thus obtained, and removing the frozen solvent with the aid of a high vacuum.

2,162,738

EXTRACTING NICOTINE FROM TOBACCO

Clarence E. McCoy, Florence, Ala.

No Drawing. Application August 18, 1937, Serial No. 159,714

1 Claim. (Cl. 260—91)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

In the process of extracting nicotine from a material containing the same which comprises treating the material with a nonaqueous solvent for the nicotine and separating the nicotine from the solvent extract, the step which comprises treating the extract with an aqueous solution of sulfuric acid and nicotine sulfate.

2,162,739

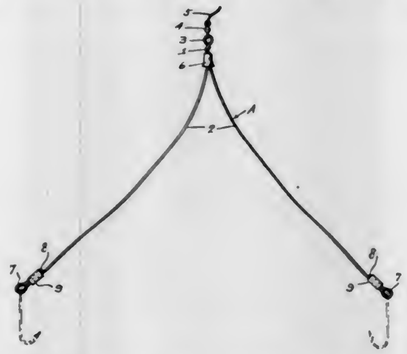
FOLDING FISH SPREADER

John Mindek, Jr., Kent, Ohio

Application May 21, 1937, Serial No. 144,067

1 Claim. (Cl. 43—28)

A fish hook spreader of the class described comprising a single piece of spring wire bent into loop form at its center and the two parts formed by the loop being twisted together for a slight distance adjacent the center portion, whereby said center portion forms an eye, the two portions of the wire curving in opposite directions from the twisted portion and having their extremities bent to form eyes for receiving fish hooks, and a sleeve of bell shape slidably arranged on the two parts below the twisted portion for bringing the two portions together when the sleeve is moved toward the hook receiving



eyes, said two curved portions being slightly bowed toward each other to facilitate sliding movement of the sleeve on said portions when the sleeve is moved toward the hook receiving eyes.

2,162,740

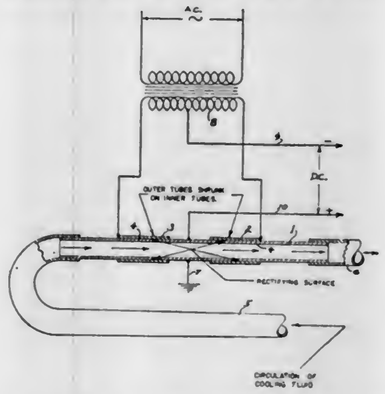
FILM TYPE RECTIFIER

Carlos B. Mirick, Washington, D. C.

Application July 20, 1938, Serial No. 220,342

10 Claims. (Cl. 175—366)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A rectifier system, comprising a tubular member of electrically conductive material, a pair of tubular electrically conductive sleeves shrunk on said member in spaced relation to each other, a rectifying film formed on one of the contacting surfaces between each said sleeve and said member, a transformer secondary coil having each of its terminals respectively connected to one of said sleeves, a primary coil operatively associated with said secondary, a direct current lead connected to a mid-point tap on said secondary, a second direct current lead connected to said member between said sleeves, means connecting a point on said member between said sleeves to ground, and means to circulate a cooling fluid through said tubular member.

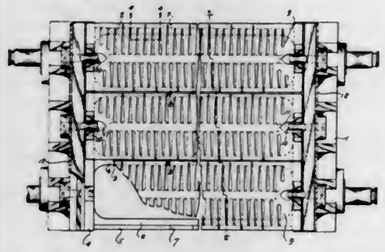
2,162,741

GRATE BAR

Wilson H. Moriarty, Shaker Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application June 12, 1936, Serial No. 84,815

12 Claims. (Cl. 266—21)



1. A grate bar for sintering machine having a plurality of transversely extending openings therein, said openings being narrower towards the lateral edges of said bar than at points nearer the center thereof.

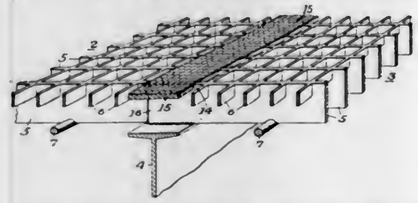
2,162,742

FLOORING CONSTRUCTION

Harry S. Nagin, Pittsburgh, Pa., assignor to Reliance Steel Products Company, Rankin, Pa., a corporation of Pennsylvania

Application May 18, 1937, Serial No. 143,278

12 Claims. (Cl. 14—73)



1. In a flooring structure of the class described, an open type grating unit, a support therefor, and a filler over the support and extending from the support upwardly to the top surface of the grating unit, the rest of the unit being unfilled.

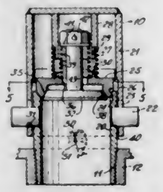
2,162,743

VALVE

Ragnar A. Norbom, Clifton, N. J., assignor to Motor Terminals, Inc., Cleveland, Ohio, a corporation of Ohio

Application April 13, 1937, Serial No. 136,559

2 Claims. (Cl. 277—45)



1. A valve member comprising a base adapted to be arranged and secured to a tank, and having an opening therethrough arranged to communicate with the interior of the tank, a cap closed at one end and adapted to telescopically encircle the base in a spaced relation therefrom, a bayonet lock connection between the cap and the base, a valve member adapted to close the opening in the passageway in the base, a compression spring extending between said valve member and the cap, whereby said spring coacts to normally maintain the passageway in the base closed and to retain the cap in position on the base, said valve member having an axially extending opening therethrough, a second valve member adapted to be arranged to close the opening in the first-named valve member, and having a stem extending upwardly therethrough and resilient means associated with said stem to cause said second-named valve to maintain the opening in the first-named valve member normally closed.

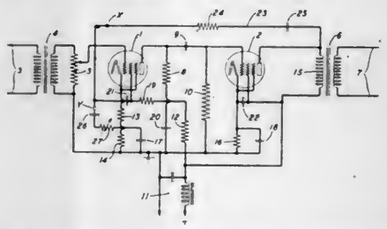
2,162,744

AMPLIFIER

Harold M. Owendoff, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 7, 1937, Serial No. 119,374

3 Claims. (Cl. 179—171)



2. A wave translating system comprising an amplifier for a frequency band of signal waves, input and output circuits therefor, an impedance connected as a two-terminal impedance in said input circuit, said output circuit having reactance that tends to lower the amplifier gain with frequency increase in a portion of said band, and a feedback connection from said output circuit to said input circuit, said connection comprising a resistance connected in series with said impedance across said output circuit with one end of said resistance at the potential of one of said terminals for signal frequencies, said resistance deriving from said output circuit a voltage proportional to that across said output circuit and feeding said derived voltage back through said resistance across said two terminals of said impedance in said input circuit in gain-reducing phase, and said impedance comprising capacitive reactance that reduces the ratio of the voltage across said impedance to the voltage across said resistance with frequency increase in said portion of said band, thereby reducing said gain-reducing feedback with said frequency increase and compensating for said tendency of said reactance of said output circuit to lower the amplifier gain.

2,162,745

METHOD FOR CAPPING BOTTLES OR THE LIKE AND MACHINE FOR EFFECTING THE SAME

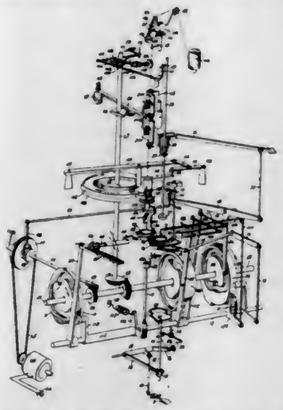
Joseph H. Ramsey, Albany, N. Y.

Application July 25, 1935, Serial No. 33,154

31 Claims. (Cl. 226—80)

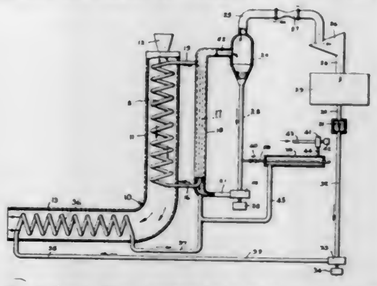
1. In a method of constricting an element having flexible walls, those steps which comprise forming loops of flexible strand, transferring said loops to a transfer member, bringing said ele-

ment into position for receiving the loops, transferring the loops to and about the flexible walls



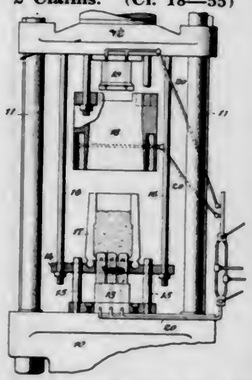
of said element, and constricting and securing in constricted condition the loops about said walls.

2,162,746
APPARATUS FOR GENERATING STEAM
Bo Folke Randel, San Diego, Calif.
Application April 11, 1936, Serial No. 73,892
4 Claims. (Cl. 122—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



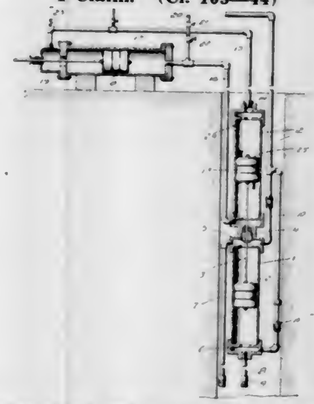
1. A system for generating steam comprising a conduit through which heated gases are adapted to flow, a boiler for containing a supply of water, a continuous passageway extending through said conduit and through said boiler and in heat exchanging relation therewith for containing a vaporizable heating medium having a high vapor temperature and a low vapor pressure, said heating medium being adapted to flow through that portion of said passageway located in said conduit in a direction opposite to and parallel with the direction of flow of the heated gases therein to absorb heat therefrom and be vaporized thereby, thence through that portion of said passageway located in said boiler to transfer its heat to the water therein to generate steam therefrom, and thence back through said conduit, the circulation of said heating medium through said passageway being effected by the differential temperatures of said medium existing at points within said conduit and said boiler, means communicating with said boiler for separating moisture of condensation from said steam and for returning the same to said boiler; and means located in said conduit for preheating the water supplied to said boiler.

2,162,747
METHOD OF MOLDING PRODUCTS OF ACID-RESISTANT COMPOSITION
Ralph H. Rector, Inglewood, Calif.
Application August 29, 1935, Serial No. 38,458
2 Claims. (Cl. 18—55)



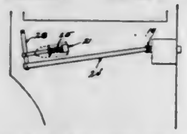
1. The method of producing an article from a dry mixture of a finely divided bituminous binder, a finely divided acid resistant filler and finely divided organic fibre, which consists in placing a quantity of said mixture in a mold, subjecting said mixture in its dry state to pressure to cause it to conform to the mold contour, heating the mixture to soften the binder and to drive off moisture and intercellular air from the fibre, and then cooling the mixture to cause the binder to impregnate the fibre.

2,162,748
HYDRAULIC WATER AND OIL PUMP
David W. Richards and David C. Richards, Richlandtown, Pa.
Application November 1, 1937, Serial No. 173,126
1 Claim. (Cl. 103—44)



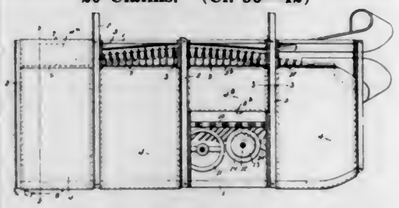
A device of the character set forth comprising a pump cylinder to be located in a well and including means for the inlet and outlet of well liquid therefrom and for the conveyance of said liquid outwardly of the well, a piston operable in said pump cylinder, a second cylinder supported by the pump cylinder, a piston operable in the second cylinder and connected directly with the piston of the pump cylinder, a power cylinder remotely located to said well, a power driven power piston operating in the power cylinder, fluid pipes connecting the opposite ends of the power cylinder with opposite ends of the second named cylinder whereby movement of fluid by the reciprocation of the power piston imparts reciprocation to the second named piston and the latter in turn reciprocates the pump piston, valved fluid supply pipes connected to the pipes connecting said power cylinder with the second named cylinder, said piston of the second named cylinder having passages therethrough, spring seated valves for controlling said passages, and abutments in the second named cylinder to unseat said valves on the second named piston substantially reaching the ends of its strokes.

2,162,749
SYSTEM OF AUTOMOBILE DOOR CONTROL
Leslie C. Ruska, Cicero, Ill.
Application November 25, 1936, Serial No. 112,697
4 Claims. (Cl. 296—44)



1. An automobile door control device for operating a retractable door latch comprising a hollow hand rest of substantially conical cross section opening horizontally; a depressible plunger slidable longitudinally in said hand rest and normally projecting from one end thereof; a spring for normally returning said plunger, when depressed, to projected position; a lever fulcrumed adjacent said hand rest and having one end pivoted to said slidable plunger; a slidable door latch adapted to be secured to a door; a link pivotally connecting said latch and the other end of said lever, the depression of said plunger being adapted to retract said door latch.

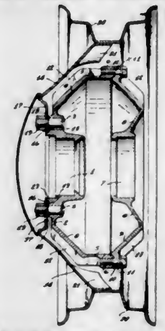
2,162,750
COTTON PICKING MACHINE
John D. Rust, Memphis, Tenn.
Application September 20, 1937, Serial No. 164,809
20 Claims. (Cl. 56—42)



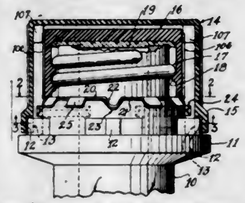
1. In a cotton picking machine, wherein is provided a tunnel through which the plants are passed, and an endless spindle carrier with means to project the spindles into and withdraw them from the tunnel; stalk guards for the spindle carrier, said guards each comprising an elongated horizontal bar having a vertical flange extending in one plane at the tunnel side and having a bent flange at the other side, means to support the bar at its ends, the bar in plan view being in the nature of a cantilever.

2,162,751
WHEEL MOUNTING
Claude Sauzedde, Detroit, Mich., assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich., a corporation of Michigan
Application August 3, 1935, Serial No. 34,584
3 Claims. (Cl. 301—6)

1. In vehicle wheel assemblies wherein a wheel formation is demountably secured bodily to a hub structure forming a housing for a brake mechanism, a hub comprising outer and inner disks having axial formations designed to support the same, the two disks being secured together at their peripheries whereby the inner disk stabilizes the outer disk, said outer disk comprising an oblique portion comprising a braking surface and a radial portion integrally uniting the oblique portion with the axial formation, securing elements for a wheel formation on said radial portion, a positioning element for said wheel formation formed at said axial formation, a wheel formation positioned by said element and secured on said radial portion, said wheel formation having a disk shaped to simulate the outer appearance of the outer disk formation, said disk being spaced from the outer section to permit the circulation of air therebetween and in parallel spaced relation to said radial portion thereat.



2,162,752
TAMPERPROOF CLOSURE
Adolf Schauer, Brooklyn, N. Y., assignor to John Hamberger, Richmond Hill, N. Y.
Application October 19, 1934, Serial No. 748,997
Renewed October 25, 1938
17 Claims. (Cl. 215—42)



1. A device including a container, a tamperproof closure for the container comprising a flanged seal cap threaded upon the container, a brittle outer ring or band having an upper flange gripping over the flange on said seal cap, inwardly directed projections having a sectional profile similar to a ratchet tooth with its working face turned up and formed with said ring at its lower portion, column-like extension integral with the container, having an upper and a lower bevelled shoulder forming an annular groove with the container column, an annular conical spring having a plurality of inwardly and outwardly directed fingers, the outwardly directed fingers engaging said ratchet teeth like projections to prevent linear movement of the band, and the inwardly directed fingers engaging in the groove of said column to prevent linear uplift of the spring itself, said inner lips acting as pivot point for said spring upon the lifting of the band to spread and break the ring band, said spring having a

solid middle panel bearing against said lower bevelled shoulder, said upper bevelled shoulder having cut-away portions for the introduction of a suitable tool.

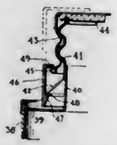
2,162,753

TAMPERPROOF CLOSURE FOR CONTAINERS

Adolf Schauer, Brooklyn, N. Y., assignor to John Hamberger, Richmond Hill, N. Y.

Application March 30, 1935, Serial No. 13,869

12 Claims. (Cl. 220—39)



1. A device including means consisting of sheet metal and comprising a top wall adapted for flanged reenforcing engagement with the tubular side wall of a drum or can container, said top wall having a neck means projecting outward of the container and providing an opening for the latter, said neck means having its cross sectional configuration upset to provide an external thread at the upper portion thereof, a closure engaged with said external thread to close the neck means, an indicator member, and a relatively resilient portion connected to said means adjacent to the lower portion of the neck means, said indicator member having means to permit free downward axial movement of the indicator member to receive the closure and to automatically engage the said resilient portion to prevent removal of the indicator member and hence of the closure, said indicator member having a preformed externally visible breakable portion adapted to be broken by said resilient portion upon upwardly forcing the indicator member to thus permit removal thereof, said resilient portion projecting externally downwardly and outwardly relative to the neck means and being radially braced by the latter, the resilient portion and the neck means cooperating with each other and with the threaded portion and closure to provide a relatively light structure that is well adapted to withstand any unusual stresses exerted thereon in attempting to remove the indicator member.

2,162,754

TAMPERPROOF CLOSURE AND CONTAINER

Adolf Schauer, Ridgewood, N. Y., assignor to John Hamberger, Richmond Hill, N. Y.

Application June 5, 1937, Serial No. 146,597

11 Claims. (Cl. 215—7)



4. A device including a container member having an opening, means to control said opening including a preformed indicator member extending around the opening and having a frangible portion, interlocking portion to prevent removal of the indicator member without breakage of the frangible portion, one of the interlocking portions being connected to the container member and the other being integral with the indicator member, one of said members being resilient at its interlocking portion to permit relative radial motion between the interlocking portions to permit the latter to operatively interengage each other by expansion of one of the interlocking portions along a diameter thereof, and one of the interlocking portions having arcuate recesses of substantial length along a second diameter substantially at right angles to the first mentioned diameter to afford clearance for contraction of one of the interlocking portions along the second diameter.

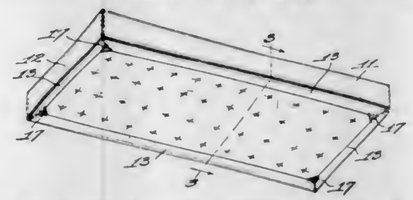
2,162,755

MATTRESS COVERING BED SHEET

Louis S. Shauer, Los Angeles, Calif.; Leon S. Shauer administrator of said Louis S. Shauer, deceased

Application July 17, 1937, Serial No. 154,249

2 Claims. (Cl. 5—354)



1. As a new article of manufacture, a mattress covering sheet, comprising an inverted box-like member having a closed top for covering the upper surface of a mattress, depending end and side walls to cover the sides and ends of said mattress and inwardly directed extensions of the elongated free edges of said end and side walls underlying marginal portions of the bottom of said mattress, said extensions being trapezoidal in plan, adjacent ends of said extensions being connected to provide a continuous rectangular flange, and a resilient reinforcing gusset at each corner of said flange, straight edge portions of said gussets extending across said corners inwardly thereof.

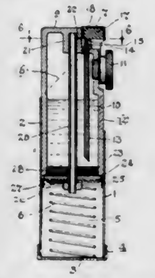
2,162,756

POCKET ATOMIZER

Rome C. Seyforth, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a corporation of Ohio

Application November 29, 1935, Serial No. 52,118

7 Claims. (Cl. 299—88)



1. In an atomizer, the combination of a rigid casing having top, bottom, and side wall portions, a liquid containing member movable in said casing as a plunger to compress an air supply therein, atomizing means connected to such air supply and carried by said member for spraying liquid from said member to the exterior of said casing, and an opening in said casing to give access to said member for the actuation thereof.

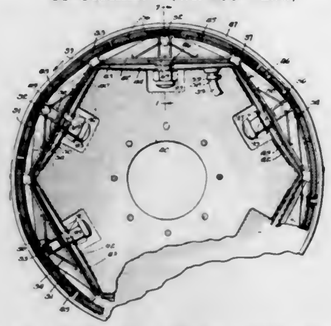
2,162,757

FLUID BRAKE CONSTRUCTION

William Clifford Shaw, Woodstock, Ontario, Canada, assignor, by mesne assignments, to Linderman Devices, Incorporated, Wilmington, Del., a corporation of Delaware

Application January 30, 1933, Serial No. 654,279

35 Claims. (Cl. 188—152)



1. A fluid pressure operated power device comprising a friction shoe and a metallic expansible chamber rectangular in cross section parallel to its operating surface, expansible upon fluid pressure being applied thereto, for urging said friction shoe into operative engagement with the surface to which the same is applied.

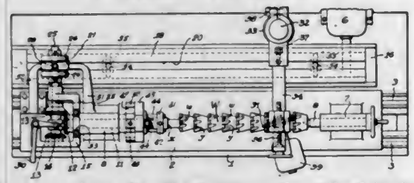
2,162,758

SPIRAL GRINDING MACHINE

William Shotey, Belleville, Mich.

Application August 6, 1937, Serial No. 157,771

7 Claims. (Cl. 51—95)



1. A machine for the purpose described including a work carrying carriage provided with means for rotatively supporting work with the longitudinal axis of the work extending longitudinally of the carriage, a grinding member to engage the work, a track extending longitudinally of the carriage, means on the carriage for rotating the work and including a rotative member to travel along the track and impart rotation to the work during travel of the carriage, said member for travel along the track being detachable to be replaced by a member of a different diameter to change the proportion of rotation of said member and work to the length of longitudinal travel of the work, and means for yieldingly holding said rotative member in contact with said track during movement of the carriage relative to the track.

2,162,759

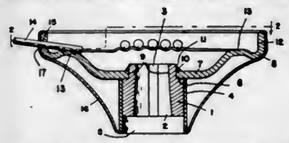
STEERING WHEEL HUB STRUCTURE

Harry F. Smith, Toledo, Ohio, assignor to The Acklin Stamping Company, Toledo, Ohio, a corporation of Ohio

Application September 11, 1937, Serial No. 163,465

17 Claims. (Cl. 74—552)

1. In a steering wheel, a hub structure having a central part provided with an opening for engagement with a steering shaft, a cup having its base non-rotatably anchored upon said part, and spokes entirely free of said part extending through



openings in the rim of said cup and rigidly secured to portions of the base of said cup.

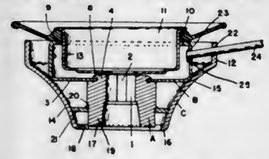
2,162,760

STEERING WHEEL HUB STRUCTURE

Harry F. Smith, Toledo, Ohio, assignor to The Acklin Stamping Company, Toledo, Ohio, a corporation of Ohio

Application May 2, 1938, Serial No. 205,635

16 Claims. (Cl. 74—552)



1. In a steering wheel, a hub structure including a bushing having an opening for engagement with a steering shaft, an outer shell spaced from the bushing and having an opening for the head of a steering column, and an inner shell having a portion serving as a brace and spacer between the bushing and outer shell and having another portion forming a seat for a resilient support for a horn push button and serving to center a cup of a push button assembly.

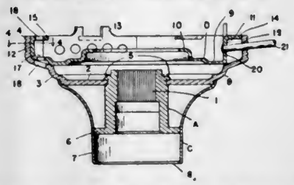
2,162,761

STEERING WHEEL HUB STRUCTURE

Harry F. Smith, Toledo, Ohio, assignor to The Acklin Stamping Company, Toledo, Ohio, a corporation of Ohio

Application May 2, 1938, Serial No. 205,636

15 Claims. (Cl. 74—552)



1. In a steering wheel, a hub structure including a bushing having a lateral flange, an outer shell brazed to said flange and having an inwardly extending portion spaced from the flange and brazed to said bushing, an inner shell brazed to the outer shell, portions of said inner and outer shells being spaced apart, and spokes engaging holes in said spaced portions and anchored to one of said portions.

2,162,762

VELOCIPEDE STRUCTURE

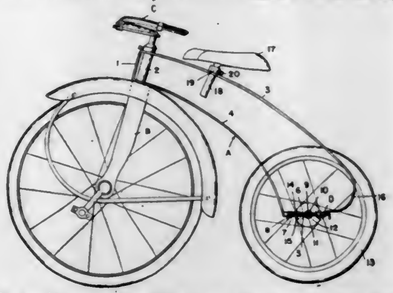
Samuel A. Snell, Toledo, Ohio, assignor to The American-National Company, Toledo, Ohio, a corporation of Ohio

Application April 5, 1937, Serial No. 135,156

14 Claims. (Cl. 280—283)

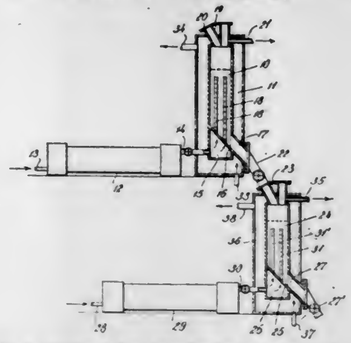
1. In a velocipede, a front fork, a rear platform, an elongated closed loop formed from a

single strip of spring steel constituting a frame member between said fork and platform, portions of said loop intermediate the end portions of the strip being mounted upon said fork, the



end portions of said strip being in overlapping relation and disposed respectively above and below said platform, and means connecting said end portions to said platform.

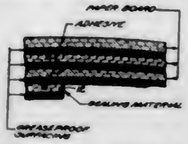
2,162,763
ACTIVE CARBON PRODUCTION
Kenneth Barton Stuart, Denver, Colo., assignor to The Colorado Fuel and Iron Corporation, a corporation of Colorado
Application April 21, 1937, Serial No. 138,086
6 Claims. (Cl. 252—3)



1. In a process for producing activated carbon involving the heating of solid carbonaceous material to expel volatile ingredients therefrom and to form a char, the improvement which comprises heating a batch of the carbonaceous material by introducing thereinto at a plurality of points and passing therethrough a hot gas containing a substantial portion of carbon monoxide, the temperature of all portions of the batch being raised at substantially the same rate so that substantially no thermal gradient is set up between any two portions of the batch and the temperature of substantially all portions of the batch being raised to a point at which said ingredients are volatile but at which the carbon monoxide dissociates to form carbon and carbon dioxide.

2,162,764
CONTAINER
Joseph H. Swan, III, Middletown, Ohio, assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio
Application September 29, 1934, Serial No. 746,181
14 Claims. (Cl. 229—3.5)

12. A container of the character described adapted to receive lubricating oil and the like and to be destroyed after a single use comprising a fibrous sheet of paper having a flexible greaseproof surfacing layer applied thereto, the coated sheet being wound into tubular form and adhesively secured upon itself to provide a plurality of overlapping layers each greaseproof in

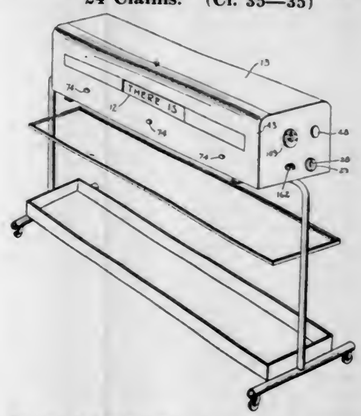


character to produce a container wall having throughout its thickness a recurring series of layers of greaseproof coating, fibrous material and adhesive, the exposed inner edge of said sheet being sealed with a coating of a greaseproofing material adapted to unite homogeneously with said greaseproof surfacing layer to provide an effectively greaseproof container.

2,162,765
NONOXIDIZING AND NONDETERIORATING DEVELOPER FOR OFF-SET OR CONTRAST FILM AND PLATE NEGATIVES
Louis Tarnoff, Chicago, Ill.
No Drawing. Application October 28, 1937, Serial No. 171,594
4 Claims. (Cl. 95—88)

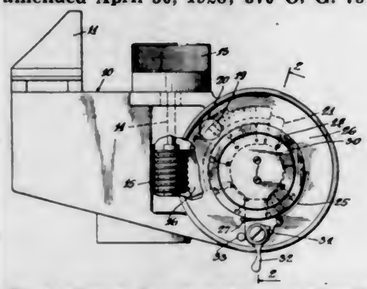
1. A non-oxidizing and non-deteriorating developer for off-set or contrast film and plate negatives consisting of: sodium sulphite—8 ounces; boric acid—2 ounces; hydroquinone—3 ounces; sodium carbonate—12 ounces; oxalic acid—200 grains; potassium bromide—360 grains; citric acid—50 grains; potassium metabisulphite—300 grains; and one gallon of distilled water.

2,162,766
EDUCATIONAL DEVICE
Carl C. Taylor, Brownwood, Tex., assignor to Educational Laboratories, Inc., Brownwood, Tex., a corporation of Texas
Application February 2, 1937, Serial No. 123,641
24 Claims. (Cl. 35—35)



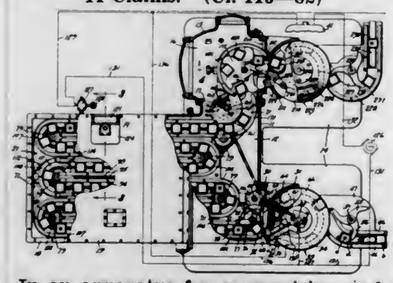
1. In an educational device, the combination with a pair of rollers for an exhibitor of the flexible strip type, one of said rollers being a winding roller and the other a supply roller, of actuating means for said rollers comprising a driving connection to the winding roller, an impositive driving connection to the supply roller, said driving connections being simultaneously operable and being opposed to each other in tending to cause the exhibitor to move in opposite directions, and means for rendering one of said driving connections inoperative.

2,162,767
AVERAGING DEVICE FOR OBSERVATION INSTRUMENTS
Thomas L. Thurlow, Dayton, Ohio
Application August 3, 1937, Serial No. 157,163
4 Claims. (Cl. 33—70)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a device for averaging a plurality of measurements of an instrument, the combination of means displaceable in accordance with each measurement by the instrument, a pivoted member movable a predetermined degree between said means and a stop, a rotatable scale, a fixed scale cooperating therewith, a friction shoe carried by said member, and a cam on said member cooperating with said shoe upon manual movement toward said shoe to engage said shoe with said rotatable scale to move the same a partial turn, said scale being calibrated to indicate a single measurement of said instrument after a predetermined number of partial turns.

2,162,768
CONTAINER-SEALING MACHINE
Clifford Titchen, Livingston, and Wilhelm Boehl, Union, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 27, 1935, Serial No. 33,612
11 Claims. (Cl. 113—82)



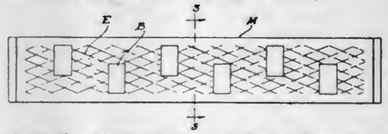
1. In an apparatus for vacuumizing and sealing containers having different height dimensions, the combination of a casing providing a vacuum chamber for accommodating tall and short containers, seaming instrumentalities in said chamber for sealing said tall containers, hand operated soldering instrumentalities also in said chamber for sealing said short containers, and conveyor means disposed in said chamber for progressively and simultaneously moving said tall and short containers to said respective instrumentalities for sealing them.

2,162,769
COATED SHEET MATERIAL
Floyd E. Williams, Gary, Ind., assignor to Marbon Corporation, Gary, Ind., a corporation of Delaware
Application November 20, 1937, Serial No. 175,544
4 Claims. (Cl. 91—68)



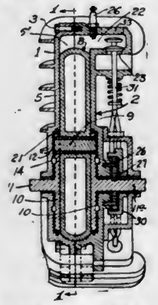
1. Water and oil resistant sheet material suitable for the manufacture of heat sealed containers comprising a fibrous cellulosic base having a water soluble softener incorporated therein, a layer of crystalline rubber hydrochloride attached to each side of said base, and a layer of amorphous rubber hydrochloride attached to a layer of crystalline rubber hydrochloride solely on one side of said base.

2,162,770
BRAKE SHOE
Rosser L. Wilson, Mahwah, N. J., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application January 28, 1938, Serial No. 187,528
34 Claims. (Cl. 188—256)



1. A brake element comprising a ferrous metal body providing a wearing face and having heat-resistant carbon included in the body thereof to remain exposed on said wearing face as the element wears away in use, the carbon being characterized by having a compressive strength of the order of about 1000 to 9000 pounds per square inch and a tensile strength of the order of about 800 to 1600 pounds per square inch.

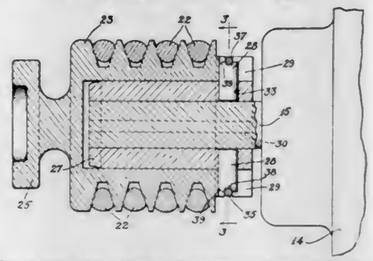
2,162,771
MOTOR
Edwin O. Winans, Denver, Colo.
Application June 29, 1935, Serial No. 29,134
1 Claim. (Cl. 121—68)



In an engine structure of the type described, a body having a flat chamber in the form of a hypocycloidal triangle having connecting walls of rela-

tively narrow width between the side walls thereof, said narrow walls at the apices of the triangle being in spaced substantially parallel relation and joined by a short wall extending perpendicularly thereto, a piston consisting of a bar having parallel flat sides lying against said side walls and edge faces parallel throughout the length of the bar and conforming in transverse configuration to the contour of the inner faces of said connecting walls, the ends of said bar being semi-spherical continuations of the edge faces, a shaft disposed to rotate on an axis passing transversely through the center of said chamber, crank means between said shaft and the transverse center of said bar whereby rotation of the shaft will effect rotating sliding movement of the bar in the chamber about said transverse center, the end and edge faces of the bar being always in contact with the said connecting walls at the three sides of the triangle chamber whereby the one chamber is divided by the bar into three separate and unconnected power chambers, and the said bar being of such length and of such width between the edge faces that when disposed perpendicularly to the narrow wall forming a side of the triangle the end of the bar remote from said wall will fill the area in the opposite apex and terminate short of the wall extending across that apex, and valve controlled fluid inlet and outlet means communicating with the said power chambers.

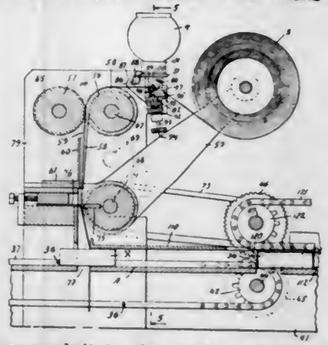
2,162,772
VARIABLE SPEED DRIVE MECHANISM
George J. Blum, Chicago, Ill., assignor to Armstrong-Blum Mfg. Co., Chicago, Ill., a corporation of Illinois
Application April 8, 1936, Serial No. 73,278
6 Claims. (Cl. 287—53)



5. In a rotary power transmission mechanism, a shaft having a projecting end portion, a sleeve mounted on said projecting end portion of the shaft and held against axial and rotational movement relative thereto, a member rigid with the sleeve at one end thereof and projecting radially therefrom, a power transmission element adapted to fit slidably over said sleeve and having an inner end portion recessed to receive said member in positive driving relation therewith, and means for yieldably connecting said rigid member and said power transmission element and thus holding said element against axial movement relative to the sleeve but permitting removal and replacement of said element by force applied manually to effect yielding of said connecting means.

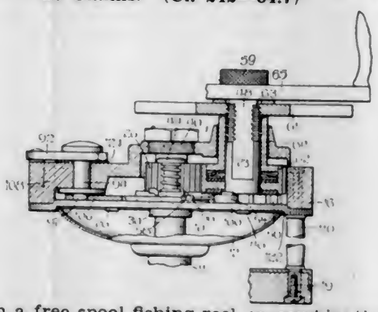
2,162,773
WRAPPING MACHINE
Wilhelm B. Bronander, Montclair, N. J.
Application April 24, 1936, Serial No. 76,158
2 Claims. (Cl. 91—12)

1. In a machine for wrapping articles in wrappers having a surface adapted to be rendered adhesive, means for feeding a strip or sheet of wrapper material, means for applying adhesive liquid to marginal portions of the strip surface, said adhesive applying means comprising a member having a liquid conduit and wicks leading



from the conduit to the surface of the member, and means including a groove in the surface of the member, surrounding each wick and communicating with the conduit for returning excess liquid to the conduit.

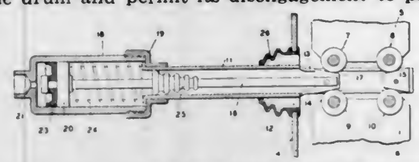
2,162,774
REEL
Joseph A. Coxe, Los Angeles, Calif.
Application July 13, 1936, Serial No. 90,370
12 Claims. (Cl. 242—84.7)



1. In a free spool fishing reel, in combination: spaced plates; frame connections uniting said plates into a unitary frame; a rotatable spool within said frame having a shaft; a transmission for driving said spool including gearing, an adjustable friction drag, and clutch means; externally accessible manual control means carried by one plate, for engaging and disengaging said clutch means; externally accessible removable manual drag adjustment means for said friction drag, carried by said transmission; an externally accessible removable crank carried by said transmission for actuating said transmission; and a stationary chassis plate mounted on said last mentioned plate and carrying said entire transmission; said chassis plate and transmission being removable as a unitary assembly from the spool, frame connections and plates constituting the rest of said reel.

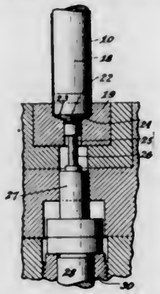
2,162,775
BRAKE ACTUATING MECHANISM
Burns Dick, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application January 23, 1937, Serial No. 122,055
11 Claims. (Cl. 188—152)

1. In braking apparatus, a rotatable drum, a friction device having a free end and adapted to be moved into engagement with a single zone of the drum, two wedges having opposed inclined surfaces for cooperation with spaced portions of said free end of the friction device to thereby actuate the friction device into engagement with the drum and permit its disengagement to pro-



duce a controlled braking action, and fluid-operated means for simultaneously moving said wedges in opposite directions with equal forces and in a plane transverse to the plane of the friction device, the forces produced by said wedges and which act on the end of the friction device in the axial direction of said friction device being balanced.

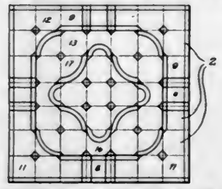
2,162,776
APPARATUS FOR AND METHOD OF MAKING THIN METAL CONTAINERS
John H. Fridén, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Original application November 20, 1936, Serial No. 111,788. Divided and this application November 9, 1937, Serial No. 173,634
9 Claims. (Cl. 207—10)



1. A method of producing a thin, metal, tubular, collapsible container which comprises forcing a punch against a slug in a die recess and commencing the upward extrusion of the tubular container while the entire die bottom remains stationary until a portion of the slug attains substantially the thickness desired for a corresponding portion of the container and then permitting a corresponding portion of the die bottom to recede in unison with the punch until the extrusion operation is completed.

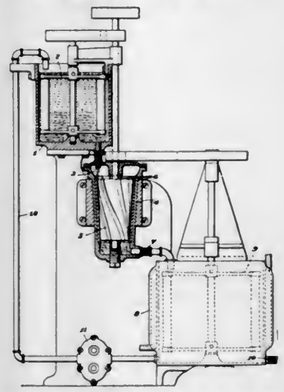
2,162,777
DESIGN PRODUCING TILE
Vahan Hagopian, New York, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y., a corporation of Maryland
Application June 22, 1936, Serial No. 86,570
6 Claims. (Cl. 41—24)

2. A rectangular tile having all of its edges chamfered at a face thereof and having formed in said face a linear groove as a design element having each end thereof at an edge of said tile and adjacent a corner of the tile, the distance between the end and the adjacent corner being the same for each end of the groove, the depth of said groove being the same as that of the chamfer below said face, whereby when two tiles are juxtaposed with corners meeting and edges in contact a depression is provided by said



chamfers on the line of contact of said tiles of the same depth and meeting said linear groove and forming therewith a design the elements of which pass through the corners at which said tiles meet as well as extending along the edges of the tiles.

2,162,778
MANUFACTURE OF PILE FABRICS
Raymond W. Kent, Newton Highlands, Mass.
Application May 2, 1936, Serial No. 77,537
9 Claims. (Cl. 28—1)

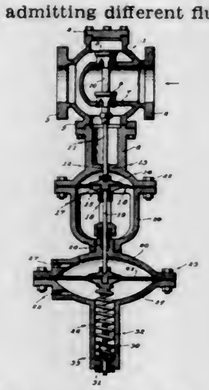


9. The process of making a pile fabric comprising mixing separated long fibres in a liquid, carrying said fluent liquid mass to a cutter, wet-cutting said fibres to a substantially uniform and shorter length, drying the fibres and then embedding the ends of the fibres in a liquid adhesive fibre-to-base bonding agent.

2,162,779
PRESSURE REGULATOR
Richard W. Leutwiler, Chicago, and William Eichholz, Cicero, Ill., assignors to The Illinois Engineering Company, Chicago, Ill., a corporation of Illinois
Application April 27, 1936, Serial No. 76,622
2 Claims. (Cl. 137—153)

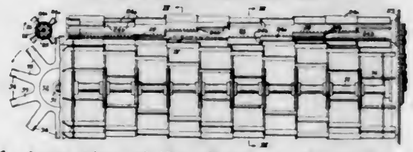
1. An automatic pressure regulator of the class described comprising a valve body provided with a seat and guide for a valve, a valve mounted within said body and having a stem passing through said body, a plurality of diaphragm motors attached to the valve body and having diaphragms connected with the valve stem, means for admitting fluid pressure from the low pressure side of said valve body to one face of one of the diaphragms and means for admitting atmospheric pressure to the opposite side thereof, a gas tight housing for another of said diaphragms,

and means for admitting different fluid pressures



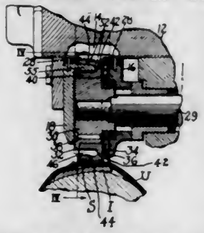
in said housing on opposite sides of the diaphragm.

2,162,780
BREAKER REEL
Lawrence L. Ludington, Muncie, Ind., assignor to George A. Ball, Muncie, Ind.
Application January 27, 1937, Serial No. 122,607
8 Claims. (Cl. 19—33)



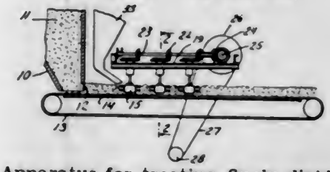
1. Apparatus of the character described comprising a shaft, a series of spaced spiders on said shaft, and bars connecting the outer ends of the arms on adjacent spiders, one end of each of said bars being secured to the front face of an arm on one spider and to the rear face of an arm on the adjacent spider to provide a longitudinally extending beater having regularly recurrent offsets therein.

2,162,781
COATING APPARATUS
Wilbur L. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application February 27, 1936, Serial No. 66,078
14 Claims. (Cl. 12—80)



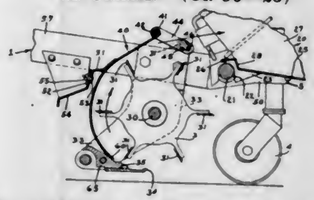
1. In a coating apparatus for the over-lasted upper around the bottom of a shoe, a rotatable support, an applying roll comprising a sleeve surrounding the support, a flange projecting from one extremity of the sleeve and a coating-applying peripheral wall extending from the periphery of the flange concentric to and overlying the sleeve with its free edge unsupported, said flange and wall being both of yieldable material, and means for supplying coating material to said roll.

2,162,782
NODULIZING APPARATUS
Kristian Middelboe, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y., a corporation of New Jersey
Application April 9, 1936, Serial No. 73,411
In Great Britain April 11, 1935
3 Claims. (Cl. 259—12)



1. Apparatus for treating finely divided material in moist condition which comprises the combination of a plane support, means for distributing material to be treated on said support to form a relatively thin layer of substantially uniform thickness, a device disposed adjacent said support for mixing and stirring the moist material thereon, said device including a vertical shaft and horizontal arms supported thereby and movable close to the surface of said support, means located in advance of the mixing and stirring device for regulating the moisture content of the material to place it in the desired moist condition, and means for producing relative movement between said device and support longitudinally of the layer of material to cause said device to act on the moist material progressively and to cause the treated material to be continuously withdrawn from the range of action of said device.

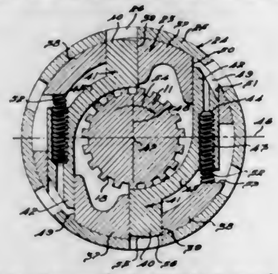
2,162,783
GRASS CATCHING AND DISTRIBUTING DEVICE
Amos F. Moyer, Minneapolis, Minn., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application December 30, 1936, Serial No. 118,340
11 Claims. (Cl. 56—23)



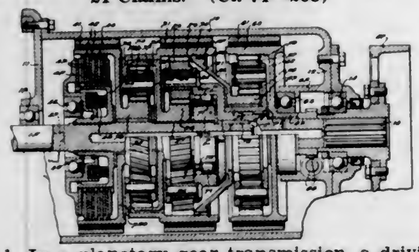
1. In combination with a mower unit including a plurality of cutters mounted for movement along a curved path and a cooperating stationary cutting element, a delivery scroll, including a curved segment alongside the path of movement of the movable elements, a discharge lip for the scroll, and link means for positioning the delivery scroll on the mower unit.

2,162,784
CLUTCH
Carl A. Neracher, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 26, 1936, Serial No. 97,867
11 Claims. (Cl. 192—105)

3. In a centrifugal clutch, a rotatable shell having a plurality of slots, a pawl carrying structure rotatable within said shell and having a pair of substantially diametrically arranged outwardly extending openings, a pair of pawls carried by said structure, each of said pawls having a clutching end portion slidably engaging one of said openings and adapted for projection into one of said slots, said pawl carrying structure having guideways disposed at points spaced circumferentially between said openings for respectively slidably guiding the opposite end portions of said pawls, the opening and guideway for each pawl having their respective axes parallel with each other and offset from each other in a direction circumferentially of the pawl carrying structure.



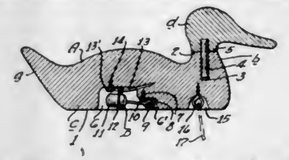
2,162,785
POWER TRANSMISSION
Carl A. Neracher and William T. Dunn, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 2, 1936, Serial No. 99,013
21 Claims. (Cl. 74—268)



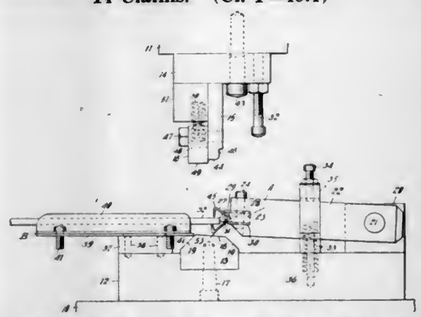
1. In a planetary gear transmission, a driving shaft, a driven shaft, a reversing planetary gear train and a plurality of forwardly driving planetary gear trains operably connecting said shafts for selectively transmitting reverse or any one of a plurality of forward speed ratio drives from said driving shaft to said driven shaft, and an overrunning clutch including clutching members respectively drivingly connected to said driving and driven shafts, said overrunning clutch being so constructed and arranged as to provide overrun of said clutching members during said reverse and forward speed ratio drives and to drivingly connect said shafts when said driven shaft tends to overrun said driving shaft with the transmission in neutral.

2,162,786
DECOY DUCK
Anthony A. Oeding, Ferguson, Mo.
Application July 3, 1937, Serial No. 151,792
9 Claims. (Cl. 43—3)

1. A buoyant decoy duck simulative in form of a natural duck, the duck comprising a body having a recess in its under face, and a pendulum pivotally mounted in the recess for horizontal disposition in its entirety in said recess when the duck is not in use and being swingable downwardly out of said recess into substantially vertical free-swinging position when the duck is in actual use.



2,162,787
BELT LACING SETTING DEVICE
John C. Olsen, Chicago, Ill., assignor to Flexible Steel Lacing Company, Chicago, Ill., a corporation of Illinois
Application August 24, 1936, Serial No. 97,622
14 Claims. (Cl. 1—49.4)

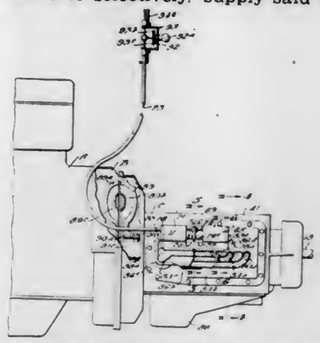


1. In a belt lacing setting device, the combination with an anvil; of a holder for the belt lacing and gauge pin, said holder extending parallel to the anvil adjacent thereto; means pivotally supporting said holder to swing about an axis parallel to the anvil; and adjustable means for determining the initial free position of said holder relative to the anvil at the beginning of the setting operation.

2,162,788
POWER TRANSMISSION
Herbert F. Patterson, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 27, 1936, Serial No. 112,860
25 Claims. (Cl. 74—262)

1. In a motor vehicle transmission of the planetary gear type having a plurality of planetary gear operated rotary controlling elements, a plurality of means respectively associated with said rotary elements and adapted for operative engagement therewith to control the drive through the transmission, a fluid pressure operated device for operating each of said element engaging means, a plurality of valves movable relative to each other from closed to opened positions to selectively supply fluid under pressure respectively to said devices, means for mounting said valves at the transmission for remote control by the vehicle driver, a fluid supply reservoir, pump means for supplying fluid under pressure from said reservoir to said plurality of valves, means for returning said fluid from said devices to said reservoir, a selector element manually adjustable to a plurality of stations of transmission control respectively corresponding to a plurality of transmission forward drives, neutral and reverse, means for mounting said selector

element remotely from the transmission and in position for manual selective operation by the vehicle driver, and remote control Bowden wire mechanism operable between said selector element and said valves for selectively opening each of said valves to selectively. supply said fluid to



said devices in direct response to said manual adjustment of said selector element, said mechanism operating to open only one of said valves during adjustment of said selector element from its neutral station to any of its remaining stations of selective adjustment.

2,162,789

METHOD OF PREPARING METAL SURFACE FOR PLATING

Ernst Raub, Schwabisch Gmund, Germany, assignor to Edwin F. M. Speidel, Providence, R. I.

No Drawing. Application April 7, 1936, Serial No. 73,119. In Germany April 8, 1935

2 Claims. (Cl. 204—3)

2. The herein described art of treating a surface of an article made of aluminum or its alloys including maintaining a solution comprising between 40 and 60 grams of ferrous chloride and between 40 and 60 cubic centimeters of concentrated hydrochloric acid per liter of water at a temperature between 92° and 95° C., immersing said article in said solution for a period between one-half minute and one minute, rinsing the article, and finally electro-plating a deposit of nickel on said article over the surface so produced.

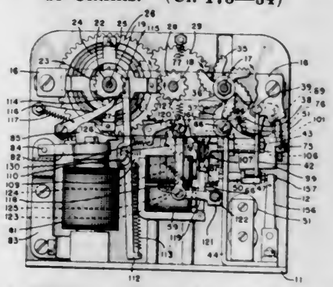
2,162,790

PRINTING TELEGRAPH APPARATUS

Albert H. Reiber, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application November 13, 1936, Serial No. 110,722

43 Claims. (Cl. 178—34)



1. In a selector, a rotatable shaft, a cylinder carried by said shaft having projections thereon, a reciprocable pawl, and means for moving said pawl longitudinally of the cylinder for determining the stop position of said shaft.

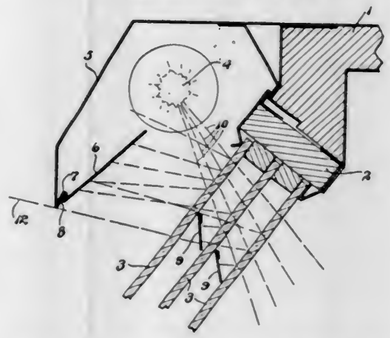
2,162,791

GLARE ELIMINATOR

Clifford B. Shreve, Niles, Mich., assignor to Tyler Fixture Corporation, Niles, Mich., a corporation of Michigan

Application October 18, 1937, Serial No. 169,613

5 Claims. (Cl. 240—6)



1. In a display case having a downwardly and forwardly inclined front wall, said wall comprising, a plurality of spaced apart glass plates, and said case having light producing means at the outer side and at the upper end of said inclined wall, with a housing over said light means, the combination of opaque vanes mounted substantially vertically between the spaced apart plates of said wall in a position to intercept rays of light reflected by said glass plates in a forward direction against said plates.

2,162,792

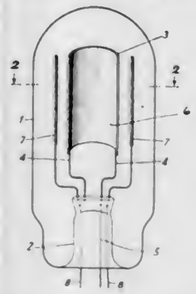
PHOTOTUBE

Marten Cornelis Teves and Frans Michel Penning, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application July 22, 1936, Serial No. 91,804

In the Netherlands August 5, 1935

4 Claims. (Cl. 250—165)



1. A phototube having an envelope containing a gas filling, a cathode having a concave surface, a light sensitive coating on said concave surface and an anode positioned adjacent to but outside of the region formed by the orthogonal projection from the concave surface of said cathode.

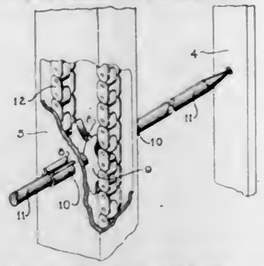
2,162,793

ROASTING MACHINE

Constantine Zmay, Chicago, Ill.

Application July 26, 1937, Serial No. 155,747

3 Claims. (Cl. 53—5)



1. A spit for roasting machines comprising a rotatable shaft; a spring clip on the end of said shaft; and a meat spindle detachably mounted in said clip.

2,162,794

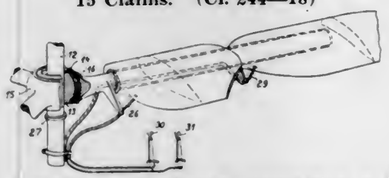
ROTARY WING AIRCRAFT

Oscar von Asboth, London, England

Application September 30, 1936, Serial No. 103,248

In Germany April 29, 1936

15 Claims. (Cl. 244—18)



1. A rotary wing aircraft comprising a body structure, wing blades rotatably mounted on said body structure, the said wing blades being shaped to form an inner wing part the angles of incidence of which are in the range of small positive, zero and small negative values, and an outer wing part of which the angles of incidence correspond to a more positive pitch than those of the inner wing part, the outer wing part being so formed that the angles of incidence increase from the end adjoining the inner wing part and again decrease in the outer region of the outer wing part.

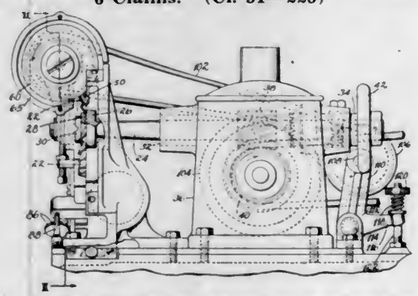
2,162,795

GRINDING APPARATUS

Lewis J. Bazzoni, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application August 14, 1936, Serial No. 96,086

6 Claims. (Cl. 51—225)



1. A grinding device having, in combination, a rotary grinding wheel, a rotary shaft upon which the wheel is mounted, a tooth cutter, a shaft upon which the cutter is fixed, the latter shaft and cutter being mounted for both rotary and longitudinal movement, said two shafts being at substantially right angles to each other but in offset planes, and means for controlling the movement of the wheel and cutter relatively to each other when moved with a manual movement of combined rotation and longitudinal translation while in grinding contact to cause the point of grinding contact to progress along the circumference of the wheel relatively to a fixed position and, at the same time, to progress along the peripheral face of the tooth to grind a profiled edge thereon with a progressively changing bevel.

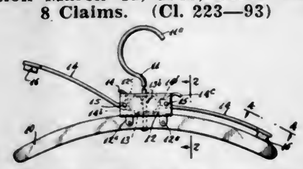
2,162,796

SAFETY GARMENT HANGER

Jacob Hazai Beckmann, New York, N. Y.

Application March 31, 1938, Serial No. 199,140

8 Claims. (Cl. 223—93)



1. A safety garment hanger, comprising a support bar for engaging the shoulder portions of a garment, a hook attached on the center of said bar, a small housing mounted on said support bar and encasing the lower extremity of said hook, a leaf spring of oval shape mounted within said housing and said leaf spring having an opening in its center through which the lower portion of said hook passes and having its end portions engaging the sides of said lower portion of the hook, fingers for engaging the support bar to clamp portions of a garment thereon to prevent the garment from slipping off the hanger, and said fingers being pivotally mounted on said housing and having bifurcated inner ends, one of the portions of which engage said leaf spring for holding the fingers raised or lowered, and the other portions of which project from said housing and form handles by which the fingers may be moved.

2,162,797

COMBINED COMPRESSOR AND POWER CYLINDER

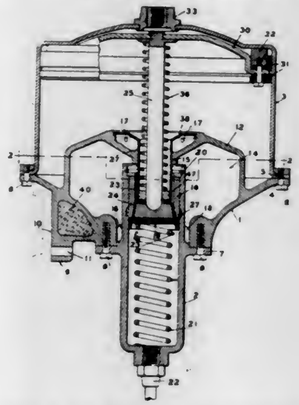
Werner F. Boldt, Overland, and Burns Dick, Ferguson, Mo., assignors to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application December 15, 1937, Serial No. 179,860

7 Claims. (Cl. 60—54.6)

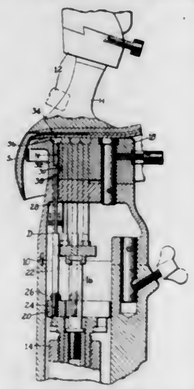
1. In apparatus of the class described, a member provided with a reservoir having aligned openings in its ends, a cylinder detachably secured to one end of the member and having a portion of its length projecting into said reservoir through one of said openings, a piston in said cylinder, said piston when in retracted position being positioned in the projecting portion of the cylinder, a second cylinder secured to the other end of said member, a piston in said second cylinder, a piston rod secured to said second named piston and projecting through the other opening of said reservoir and operatively engaging the first named piston, a sleeve carried by the member and having a piston rod guide portion positioned within the portion of the first named

cylinder which projects into the reservoir and adjacent the retracted position of the piston



therein, and a coil spring surrounding the piston rod and interposed between the second piston and the guide portion of the sleeve.

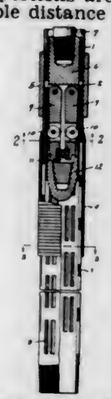
2,162,798
NAILING MACHINE
Francis L. Brandt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application September 1, 1937, Serial No. 161,980
13 Claims. (Cl. 1—32)



1. In a nailing machine, a member for contact with the work and provided with a passage about the opening of which adjacent to the work is a depression, and a nail-driver reciprocating in the passage and having a head movable laterally in the depression.

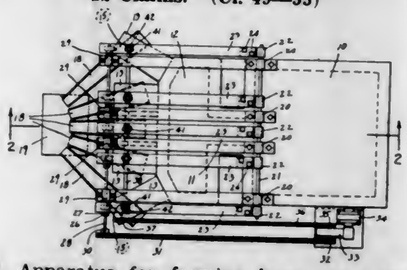
2,162,799
WELL SCREEN
Walter L. Church, Houston, Tex.
Application January 17, 1936, Serial No. 59,516
3 Claims. (Cl. 166—8)

1. A well screen comprising a pipe having longitudinally elongated perforations substantially throughout the area thereof and of uniform width radially arranged to produce portions between the perforations which are supported only at their ends and whose radial dimensions are such that their intermediate portions are capable of being flexed an appreciable distance outwardly, and a



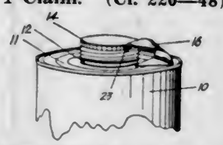
screening element wound spirally about the pipe and having its turns spaced apart.

2,162,800
METHOD AND APPARATUS FOR FORMING LARGE MASS GLASSWARE BY GOB DROPPING
Alvie C. Crimmel, Hartford City, Ind.
Application January 24, 1935, Serial No. 3,205
Renewed December 17, 1937
12 Claims. (Cl. 49—55)



1. Apparatus for forming large mass glassware including in combination, tank means, a plurality of fore-hearths associated with said tank means, each adapted to form an independent gob, means associated with each of said fore-hearths for automatically forming such independent gob, and means for conveying each gob so automatically and independently formed to a single common mold cavity.

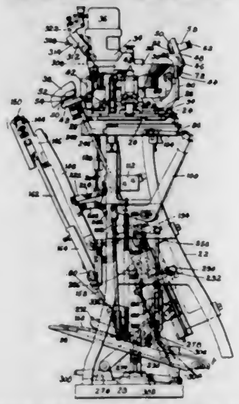
2,162,801
SEALED CAN WITH ATTACHED OPENER
George W. Darlinton, San Pedro, Calif.
Application October 13, 1937, Serial No. 168,746
1 Claim. (Cl. 220—48)



An opener for sealed containers comprising a section of sheet metal bent so as to be of general U-shape in cross section, one side of the section being substantially flat so as to be capable of lying on the top of a container, the other side curving upwardly from the fold line so as to be

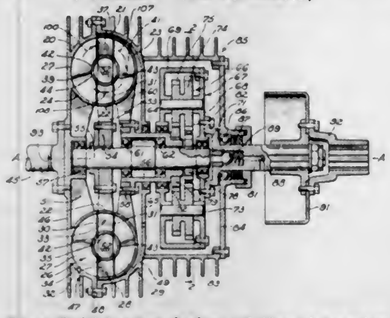
capable of being positioned against a threaded cap for the container, both sides of the section being of generally triangular form and said section being pointed with the point located at one end of the fold line.

2,162,802
SHOE MACHINE AND METHOD
Karl Engel, Swampscott, Mass., assignor to United Shoe Machinery Corporaton, Paterson, N. J., a corporation of New Jersey
Application September 1, 1937, Serial No. 161,982
71 Claims. (Cl. 12—2)



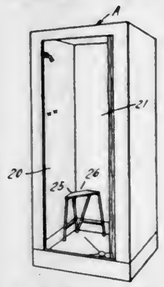
11. In a shoe machine, a counter support movable to position a supported counter for the reception of an application of cement and movable from said position to position the counter for the reception of a shoe upper, and gripping means constructed and arranged to engage an upper arranged to be attached to the supported counter and movable in a direction to draw the rear part of the upper about the supported counter.

2,162,803
FLUID CLUTCH AND TURBO-TORQUE CONVERTER
Basil H. England, Southsea, England
Application February 29, 1936, Serial No. 66,405
7 Claims. (Cl. 74—189.5)



1. In a fluid transmission of the character described, the combination of: a toroid divided into a front section, an intermediate section, and a rear section, said intermediate section having inner and outer passages from face to face thereof, and said front and rear sections each having curved passages connecting the ends of said passages of said intermediate section, said passages in said sections being separated by walls forming vanes against which the force of a fluid flowing in said passages will act and react to urge said intermediate and rear sections to rotate in the same direction as said front section; drive means connected to said front section of said toroid to rotate said front section on its axis; a driven member mounted so as to be rotatable; an axial shaft connected to said intermediate section of said toroid; a tubular wall rotatably mounted on said shaft, the inner end of said tubular wall being connected to said rear section of said toroid; gears mounted on the outer ends of said shaft and said tubular member; idler gear means connecting said gears in differential relation; and supporting means for said idler gear means, said supporting means being adapted to rotate around said axis of said shaft and being connected to said driven member so that rotary movement imparted to said supporting means by said idler gear means will rotate said driven member at speeds varying with the load thereon with respect to the power load applied at a constant speed to said drive means.

2,162,804
SHOWER BATH
Loring N. Farnum, Pelham, N. Y.
Application September 2, 1937, Serial No. 162,125
3 Claims. (Cl. 155—2)

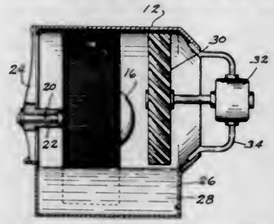


1. A corner seat for use in enclosed shower baths comprising a plurality of supporting legs, said legs being located in two planes disposed at right angles to each other, supporting frames on the upper ends of said legs, said frames being disposed in right angular relation to each other, and a seat mounted on said frames and extending across the angle therebetween, said seat being spaced from the corner formed by the planes of the supporting frames and being disposed entirely within the angle between said planes.

2,162,805
AIR CONDITIONING APPARATUS
Morrill N. Farr, Los Angeles, Calif., assignor to Temperatair Incorporated, Los Angeles, Calif., a corporation of California
Application August 7, 1937, Serial No. 157,953
1 Claim. (Cl. 261—92)

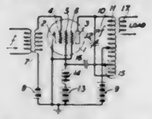
A rotatable evaporating surface for air conditioning apparatus, said evaporating surface comprising a hub, a length of metallic screen, one end of said screen being soldered to said hub, a substantially rectangular base screen spacer angularly positioned on said hub and spaced from said soldered screen and hub connection to initially space said screen from said hub, and other base screen spacers, said other base screen spacers being adapted to space a first turn of said screen from contact with said hub, and rectangular

spacers, said rectangular spacers being superposed upon convolutions of screen wound around said hub and upon and in vertical alignment with said base screen spacers whereby a plural number of spaced turns of screen are formed upon said hub, said spacers and said screen being soldered with respect to each other and with re-



spect to said hub to form a rigid unit, a housing for said evaporating surface whereby said evaporating surface may be rotated, means to create an air current to flow over said evaporating surface, means to wet said evaporating surface, said angularly positioned spacers forming vanes to effect rotation of said evaporating surface when an air current is directed thereagainst.

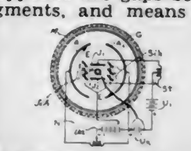
2,162,806
FREQUENCY CHANGER
Clifford E. Fay, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 5, 1937, Serial No. 157,499
5 Claims. (Cl. 250—36)



1. A frequency changer circuit comprising an electron discharge device having a cathode, an anode, a control grid and a screen grid, and circuits therefor, means to impress an exciting voltage of a base frequency *f* on the control grid-cathode circuit, means to maintain said anode at a positive potential with respect to said cathode, said control grid being biased so that in response to the exciting voltage space current will flow in said device for a substantial portion of each cycle of the impressed frequency *f*, means for applying a fixed positive bias to said screen grid, the anode-cathode circuit of said device being tuned to a desired harmonic *nf* of said base frequency, means for superposing on the fixed positive bias applied to said screen grid a voltage of said harmonic frequency *nf* 180 degrees out of phase with respect to the anode voltage, and an output circuit coupled to said tuned anode-cathode circuit for taking off waves of said harmonic frequency.

2,162,807
MAGNETRON
Karl Fritz, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 25, 1938, Serial No. 197,985
In Germany August 17, 1936
5 Claims. (Cl. 250—27.5)

1. An electron discharge device having an envelope containing a straight thermionic cathode, an inner group of electrode segments surrounding said cathode and an outer group of electrode segments surrounding said cathode and inner group of electrode segments, and shielding means positioned between the inner and outer segment groups and opposite the gaps between the inner electrode segments, and means for inducing a



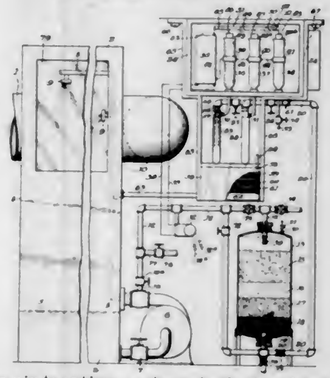
magnetic field between said cathode and electrode segments parallel to said cathode.

2,162,808
ELECTRODE STRUCTURE FOR TELEVISION TRANSMITTING TUBES
John Gallup, Newark, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application November 30, 1937, Serial No. 177,251
8 Claims. (Cl. 250—27.5)



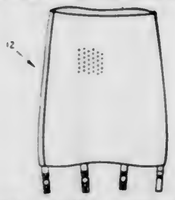
1. The process of fabricating a mosaic electrode with an apertured metallic foundation which comprises insulating one side of the foundation and the walls of the apertures of the foundation with a coating of electrical insulation and leaving the opposite side of the foundation uninsulated, covering the uninsulated side of the foundation with an adherent coating removable without injury to said insulation, filling the apertures of the foundation with an electrically conductive material, and removing the adherent coating from the uninsulated portions of the foundation.

2,162,809
PURIFICATION OF WATER AND AIR IN AIR CONDITIONING
Irwin D. Groak and Fred Burton Orr, Chicago, Ill.
Application June 20, 1935, Serial No. 27,472
5 Claims. (Cl. 261—3)



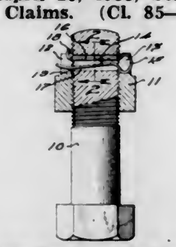
1. An air treating system, including in combination with the means for moving a current of air through a spray chamber and with means for withdrawing water from a sump in the spray chamber and delivering the same back to the spray chamber in a continuous circulation, means for bypassing a portion of the water, said bypass comprising a filter for removing impurities from the water substantially at the same rate that they are taken out of the air by said spray of water, and means controlled by the flow of said bypassed water for introducing continuously a sterilizing agent to the water flowing in said bypass after filtering.

2,162,810
WEARING APPAREL
Roland H. Guinzburg, Flushing, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y.
Application January 14, 1936, Serial No. 59,071
2 Claims. (Cl. 2—34)



1. A reducing girdle comprising a member adapted to encircle the body of the wearer and composed of thin, flexible and elastic sheet material comprising sheet rubber having finely divided flock incorporated therein and being substantially more elastic in one direction than in another at right angles to said first direction, said material being arranged in the girdle so that said body encircling member is substantially elastic circumferentially thereof and is substantially less elastic in a longitudinal direction.

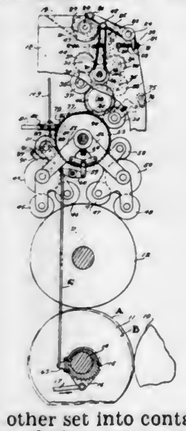
2,162,811
COTTER PIN
Frederick M. Guy, Detroit, Mich., assignor to Guy and Murton, Incorporated, Detroit, Mich., a corporation of Michigan
Application April 16, 1938, Serial No. 202,476
3 Claims. (Cl. 85—8.5)



1. A cotter pin for insertion into a bolt hole of a bolt and nut device, said pin comprising a single flat strip of metal bent upon itself at its approximate middle to produce in said approximate middle a continuously curved loop substantially in the form of a circle of a larger diameter than that of the bolt hole into which the pin is intended to be inserted, said pin having two legs adapted to come together in relatively flatwise abutting relation when the pin is compressed and to open when the pin is released, one leg having a sharp hook-shaped end upturned away from the other leg for engagement with the threaded portion of the bolt, and said other leg having its free end extended beyond the first leg and being curved gradually in the general direction of the hook-shaped end of said first leg.

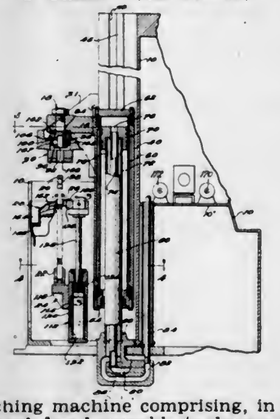
2,162,812
INKER THROW-OFF
Charles W. Harrold, University Heights, and Alfred Stull Harris, Cleveland Heights, Ohio, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application February 15, 1937, Serial No. 125,770
18 Claims. (Cl. 101—351)

1. In combination, an inker comprising a fountain roller, a ductor roller mounted to oscillate between ink receiving and ink delivering positions, an ink receiving roller mounted in fixed bearings, two sets of ink mixing rollers, means for moving one set into contact with the ductor



roller and the other set into contact with the receiving roller, and vice versa, a set of rollers for carrying ink from said receiving roller to the form to be inked, and throw-off means for interrupting the transfer of ink from said receiving roller to said last named set of rollers.

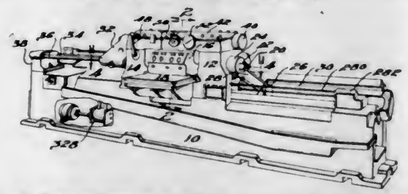
2,162,813
VERTICAL BROACH
William A. Hart, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan
Application February 15, 1936, Serial No. 64,061
1 Claim. (Cl. 90—33)



A broaching machine comprising, in combination, a broach head operable to draw a broach in one direction from a starting position through a working stroke and to return it to said starting position; broach receiving mechanism effective to receive said broach at said starting position and move it in a direction opposite to said working stroke to a retracted loading position and to return the broach to the starting position; power means for effecting said movements of said broach receiving mechanism and of said broach head; a control member engageable and movable by said broach receiving mechanism upon the arrival of said broach receiving mechanism at said starting position for actuating said power

means to cause said broach to start from said starting position and draw said broach through said working stroke; and a control member engageable and movable by said broach head upon the arrival of said broach head at said starting position for actuating said power means to cause said broach receiving mechanism to move said broach to said retracted position.

2,162,814
HORIZONTAL BROACH
William A. Hart, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan
Application February 15, 1936, Serial No. 64,062
5 Claims. (Cl. 90—33)



1. A broaching machine comprising, in combination, a work table for supporting work in broaching position relative to a broach; discharge mechanism movable between retracted and projected positions and effective upon being projected to move said work along said table out of the path of said broach and effective when in said retracted position to form a stop to preliminarily position said work relative to said broach; and locking means for accurately positioning and locking said work in said broaching position.

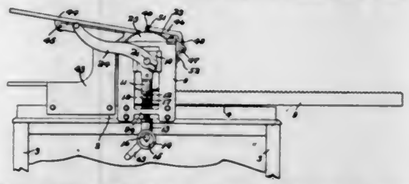
2,162,815
METHOD OF SECURING WIRES TOGETHER
Edwin W. Krueger, River Forest, Ill.
Application November 6, 1937, Serial No. 173,089
2 Claims. (Cl. 140—3)



1. A method of securing a smaller wire to a larger wire comprising displacing without removing the metal of a portion of the larger wire to form a recess on one side and a protuberance on the other, placing a portion of the smaller wire in said recess and pressing the sides of the recess against the smaller wire to hold it in the recess.

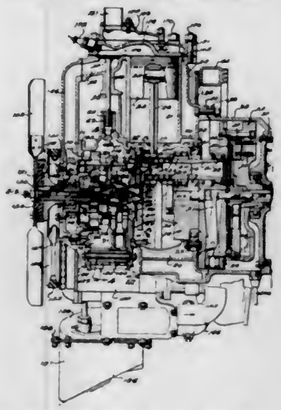
2,162,816
PROOF PRESS
James Edgar Lee and Freeman Barney, Grand Haven, Mich., assignors to The Challenge Machinery Company, Grand Haven, Mich., a corporation of Michigan
Application October 26, 1936, Serial No. 107,660
5 Claims. (Cl. 101—285)

1. In a structure of the class described, a horizontal support, a type carrying bed mounted for longitudinal movement on the support, a cylinder carried on said support above the bed, means for manually turning the cylinder, gearing between the cylinder and bed for moving the bed longitudinally on turning said cylinder, a shaft on which the cylinder is mounted, bearings for the shaft, vertical supports in which said bearings are vertically adjustably mounted, a second



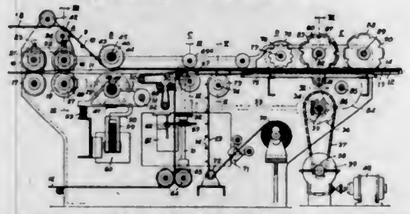
shaft carried by the horizontal support, eccentrics thereon, means in journals on said vertical supports between said bearings and eccentrics whereby turning said second shaft moves said bearings for the first shaft vertically to raise or lower the cylinder with respect to the bed, springs on said last named means to partly balance the weight carried by said journals, and means to regulate the tension of said springs.

2,162,817
ENGINE
Roger K. Lee, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 13, 1936, Serial No. 63,697
19 Claims. (Cl. 123—155)



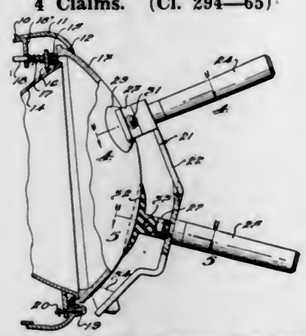
1. In an engine having a crankshaft and a plurality of cylinders radially disposed around said crankshaft, intake and exhaust valving means associated with each of said cylinders, a plurality of valve operating shafts having their axes parallel to the chankshaft axis, means for driving said shafts from said crankshaft, said shafts being the same in number as the number of said cylinders with one of said shafts associated with each of said cylinders, each of said shafts having a cam adapted to close the intake and exhaust valving means of the cylinder associated therewith, a second cam adapted to open the intake valving means of an adjacent cylinder, and a third cam adapted to open the exhaust valving means of an adjacent cylinder, and means for operating said valving means including cam followers positioned for operation by a pair of the cams of adjacent shafts.

2,162,818
METHOD OF AND APPARATUS FOR FORMING FABRIC STRUCTURES
Archworth Martin, Pittsburgh, Pa.
Application May 14, 1938, Serial No. 207,998
16 Claims. (Cl. 140—10)



1. The method of making a base for plastic material, which comprises imparting advancing movement to reinforcement mesh having rib elements disposed against one face thereof and to a backing sheet disposed against the exposed sides of the rib elements, simultaneously applying tie strips to the exposed side of the sheet along lines parallel to and between the rib elements, and connecting said strips to the mesh.

2,162,819
TOOL
Ian C. McKechnie, Detroit, and Russell A. Pattison, Warren, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application October 2, 1936, Serial No. 103,646. Divided and this application July 15, 1937, Serial No. 153,706
4 Claims. (Cl. 294—65)



1. In a device for facilitating the removal of a lens from its lamp support, a suction gripping member adapted for manual manipulation of the lens, a support for said member adapted for manual gripping to remove the lens through the intermediary of said member, and a resilient abutment member on said support spaced from said gripping member and engageable with said lens for opposing that turning movement of said support in one direction relative to said lens which normally tends to effect detachment of said gripping member from said lens.

2,162,820
FINDING FOR A PIN STEM JOINT OR CATCH AND METHOD OF MAKING THE SAME
Eugene Morehouse, Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application November 27, 1935, Serial No. 51,773
6 Claims. (Cl. 29—160.6)

1. A blank for a pin stem joint or catch comprising a base portion of convex upper surface and concave lower surface, ears on either side of



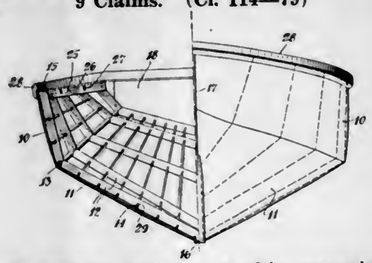
the base and in the plane thereof, and neck portions thinner than said ears or base connecting the base and ears.

2,162,821
FISHLINE BOBBER
Walter H. Parmenter, St. Paul, Minn.
Application February 7, 1938, Serial No. 189,060
3 Claims. (Cl. 43—49)



1. A fish line float comprising an elongated body of buoyant material and provided with a central longitudinal bore and a slit extending radially therefrom, a tapered plug member removably insertible and frictionally seated downwardly in the upper end of said bore, and a fishline guiding and retaining member in the lower end of said bore and fixed in a plane at an angle relative to the said slit, said retaining member being fixed in the float inwardly of the lower end of the latter thence traversing the bore longitudinally and in an inclined position and its lower end part yieldably bearing against the opposite wall of the bore.

2,162,822
SHIP HULL AND METHOD OF CONSTRUCTING IT
George Chauncey Parsons, New York, N. Y.
Application June 23, 1938, Serial No. 215,325
9 Claims. (Cl. 114—79)



1. A metallic hull for a ship comprising a frame having a keel, a stem, a transom and a plurality of ribs disposed at different angles to a vertical plane passing through said keel, a plurality of hull-length metallic sheets fixed at their ends to the stem and transom and fixed at their edges to the frame, said sheets being flexed and twisted over the ribs into longitudinal and transverse curvatures conforming substantially to the angular inclination of said ribs, whereby said sheets are tensioned and maintained in said transverse and longitudinal curvatures without buckling.

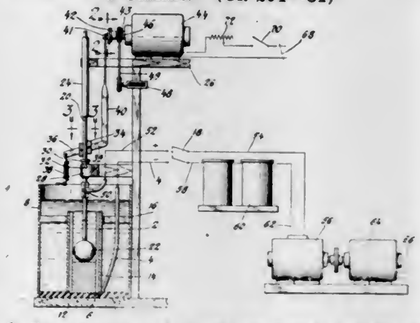
2,162,823

APPARATUS FOR PRODUCING COLLOIDAL SUSPENSIONS OF METALS

Dale M. Phillippi and James E. Wilson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application August 16, 1935, Serial No. 36,509. Divided and this application October 8, 1936, Serial No. 104,588

9 Claims. (Cl. 204—31)



1. In apparatus for making finely divided metal, a container filled with liquid, a hollow vessel immersed therein, a quantity of metal partially filling the vessel, a reciprocable electrode supported within the hollow portion of the vessel, means for applying a potential difference between the metal and the electrode whereby an arc may be drawn between them and means for reciprocating the electrode.

2,162,824

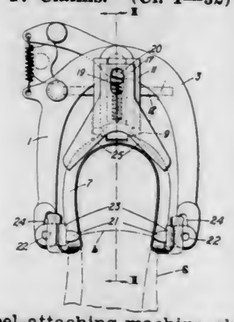
HEEL-ATTACHING MACHINE

John William Pratt and Thomas Aubrey Kestell, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application April 16, 1937, Serial No. 137,294

In Great Britain May 20, 1936

17 Claims. (Cl. 1—32)



1. In a heel-attaching machine, shoe-positioning mechanism comprising means for positively resisting displacement of the shoe over localized areas at opposite sides of said shoe, said means including a flexible band, supporting means therefor and members spaced from one another about the band and with which it contacts near the opposite ends of the breast-line of the shoe and at opposite sides of the center of the rear portion of said shoe, each of these contacts being over narrow areas longitudinally of the band and being separated by wider spaces at the sides and rear of the heel-portion of the shoe, in which spaces the band is free to accommodate itself in all directions to the counter-portion of the shoe.

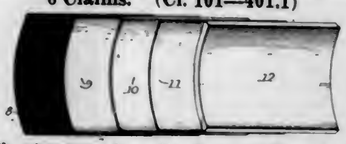
2,162,825

METHOD OF AND APPARATUS FOR MAKING ELECTROTYPE PLATES

Ernst R. Richards, Chicago, Ill.

Application July 11, 1935, Serial No. 30,938

6 Claims. (Cl. 101—401.1)



1. The improved method of making a curved electrotype plate which consists in curving an electrotype shell to the desired curvature for the cylinder, then applying soldering material to the concave surface of the shell, then super-imposing a relatively hard metallic backing on the shell, which is curved to conform to the shell, with a layer of filler material therebetween, confining the edges of the assembled parts to prevent lateral movement thereof, then placing the assembled parts in a press and heating the same while under pressure to a sufficient degree of temperature to soften the filler metal and cause it to flow into and fill all surface irregularities in said shell and melt the soldering material and cause it to unite the shell to the backing, and finally cooling the plate under pressure, tending to hold it in the shape desired for the press.

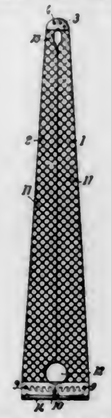
2,162,826

NECKTIE SMOOTHER AND STRETCHER

Adolf Ries, Frankfort-on-the-Main, Germany

Application July 12, 1938, Serial No. 218,818

2 Claims. (Cl. 223—65)



1. A necktie smoother and stretcher, comprising in combination two arms each tapered toward one end hingedly connected at their narrow ends and having an aperture in each of their wide ends, teeth formed on the inner side of these apertures, a cap slidable on the wide ends of said arms, and pins one near each end of said cap adapted to engage the teeth in said apertures to lock said arms in any spread position.

2,162,827

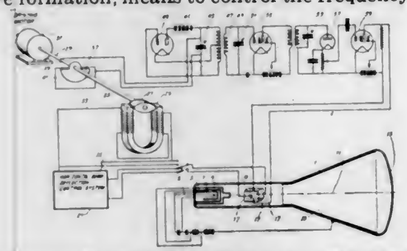
OSCILLOGRAPH APPARATUS

Harold J. Schrader, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 28, 1934, Serial No. 760,062

8 Claims. (Cl. 175—183)

1. In oscillograph apparatus, a cathode ray tube having means therein to produce an electron beam and a system of deflecting electrodes for causing the beam produced to trace predetermined paths across the viewing screen of the tube upon the application of electrical energy thereto, an impulse generator adapted to generate electrical wave forms of predetermined characteristic means for developing electrical energy of predetermined wave formation, means to control the frequency of



the developed electrical energy in accordance with the impulse frequency of the impulse generator means to supply to the deflecting system the developed electrical energy to control the motion of the electron beam in at least one of a plurality of transverse deflection paths and means to control the beam by electrical energy whose frequency varies cyclically between two predetermined values.

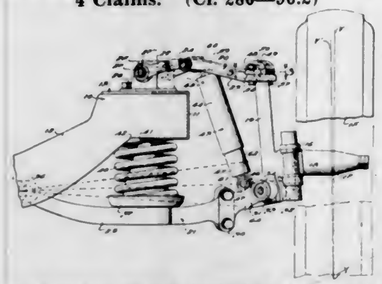
2,162,828

WHEEL SUSPENSION

Frederic W. Slack, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application May 5, 1937, Serial No. 140,809

4 Claims. (Cl. 280—96.2)



1. In a motor vehicle including a support structure, a road wheel disposed at one side of said structure, a wheel supporting structure including an upstanding arm, means structurally connecting said structures for guiding rising and falling movements of said wheel relative to said support structure, including a linkage having a pair of arms adapted to be operatively connected with said upstanding arm, each of said linkage arms having an opening in the end portion thereof adjacent said upstanding arm, a pin operably connecting said linkage arms and said upstanding arm, said pin having an opening in each end portion thereof registering with the opening in the adjacent arm end portion, and a fastener extending through each of the registering openings in said linkage arms and said pin for maintaining said pin in fixed position of adjustment relative to said linkage arms, said registering openings accommodating movement of said pin transversely with respect to its axis and generally longitudinally with respect to said linkage arms for varying the vertical position of said upstanding arm.

2,162,829

MOLD COATING MECHANISM FOR METALLIC CENTRIFUGAL PIPE MOLDS

Herbert W. Stuart, Beverly, and Horace S. Hunt, Burlington, N. J., assignors to United States Pipe and Foundry Company, Burlington, N. J., a corporation of New Jersey

Application September 9, 1938, Serial No. 229,062

3 Claims. (Cl. 22—65)



1. In a centrifugal pipe casting machine comprising a rotatable mold of cylindrical form, a runner for delivering molten metal to the mold having a spout at its end through which the metal issues, means for imparting relatively reciprocable motion to said runner and mold and means for projecting a jet of carrier gas charged with particles of finely divided dry mold coating material progressively against the inner surface of the mold, the improvement which consists in securing to the end of the runner a jet nozzle for charged carrier gas positioned close to the delivery end of the spout of the runner and so as to direct its jet against the end portion of the cylindrical portion of the mold when the mold is in starting position and in also securing to the runner a second jet nozzle for charged carrier gas located at the rear of said first named nozzle and at such a distance therefrom that the front edge of the coating deposited by it upon the mold will contact with the rear edge of the coating deposited upon the mold by the first named nozzle, said carrier gas nozzles being connected with means for providing them with currents of charged carrier gas and control mechanism whereby the currents of charged carrier gas can be initiated and cut off from either jet nozzle at will.

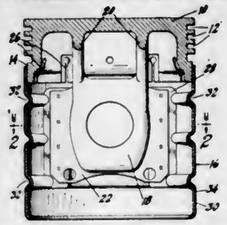
2,162,830

COMPOSITE PISTON

Caleb E. Summers, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 3, 1934, Serial No. 755,651

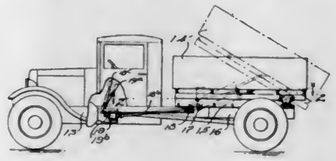
4 Claims. (Cl. 309—14)



1. A piston comprising a cast head having integral piston pin bosses, plates inseparably interlocked with the metal of the bosses and extending at right angles to the axis of the piston pin bosses, a sheet metal skirt having its upper portion in telescoping engagement with the lower portion of the head, the portion of the head overlapped by the skirt between the bosses being slotted throughout its length to permit expansion of the head without distortion of the corresponding portions of the skirt, the skirt being provided with inwardly pressed trough-shaped longitudinal ribs whose longitudinal edges are

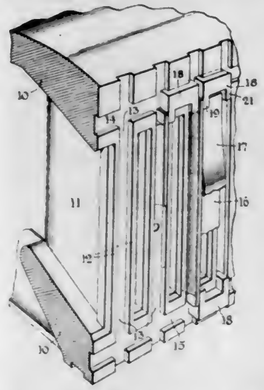
joined to the skirt engaging the plates and welded thereto, said ribs and plates constituting a reenforced connection between the head and skirt, and a coating of soft bearing metal on the outer bearing surface of the skirt.

2,162,831
AUTOMOBILE DUMP BODY AND HOIST
Edward R. Barrett, Detroit, Mich., assignor to Gar Wood Industries, Inc., a corporation of Michigan
Application May 31, 1935, Serial No. 24,375
Renewed February 23, 1939
11 Claims. (Cl. 298—22)



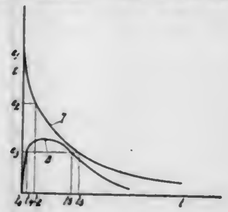
1. A dump body and supporting structure attachable to a chassis frame including, in combination, a sill frame for supporting said body which includes longitudinally extending downwardly presented tapered channel elements, the outer sides of which are flanged outwardly at the bottom for engagement with longitudinal members of the chassis frame.

2,162,832
VALVE
Lawrence C. Baumgarten, Hornell, N. Y., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 20, 1937, Serial No. 143,822
9 Claims. (Cl. 277—60)



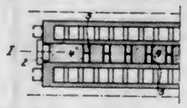
1. In a valve the combination of a body element having a plurality of ports extending therethrough; a valve seat for each port, said seats being defined by a series of grooves extending across the face of the body element, and two transversely arranged grooves into which the first named grooves extend; a plate valve for each valve seat; a deflector seated within the face grooves and presenting on each side adjacent the ports a concave surface, said surfaces merging into each other; a ported valve guard, the ports whereof stand in staggered relation to the valve seats and in alignment with the line of mergence of the concave surfaces of the deflector; and means for securing the guard to the body.

2,162,833
X-RAY APPARATUS
Albert Bouwers and Alfred Kuntke, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application July 17, 1931, Serial No. 551,516
In the Netherlands July 17, 1930
3 Claims. (Cl. 250—98)



1. An X-ray installation comprising an X-ray tube, a high-tension transformer, a condenser, an alternating current source for said transformer, means including a rectifying device for charging said condenser from said transformer during a period comprising numerous cycles of the alternating current, and means for subsequently discharging the condenser through a discharge circuit comprising said X-ray tube and one of the windings of said transformer, said last means including a member to interrupt the discharge circuit during the charging of the condenser.

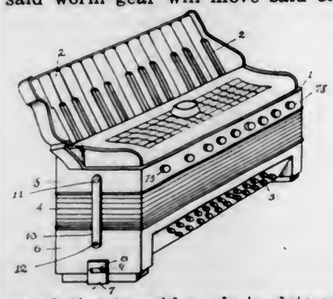
2,162,834
COKE OVEN
Fritz Breitbach, Recklinghausen, Germany, assignor to Carl Still Gesellschaft mit beschränkter Haftung, Recklinghausen, Germany
Application April 16, 1935, Serial No. 16,688
In Germany April 26, 1934
5 Claims. (Cl. 202—225)



1. In combination with a horizontal coke oven having uninterrupted chamber space, means for producing low or medium temperature coke (semi-coke) in said chamber space and comprising individual partition members adapted to be inserted in the oven chamber and vertically and transversely disposed therein, said members extending entirely across the oven chamber and being spaced apart from one another to divide the chamber into a plurality of radiation spaces and a plurality of fuel spaces alternating therewith, and the coke oven being constructed to permit insertion of the partition members from above.

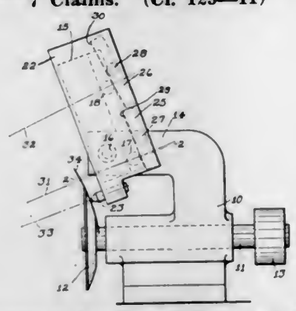
2,162,835
TUNABLE REED FOR ACCORDIONS
Walter A. Bringe, New Hartford, N. Y.
Application October 23, 1937, Serial No. 170,515
4 Claims. (Cl. 84—376)

1. In a tunable reed for accordions, clamping members comprising bars movable relative to a plurality of the reeds of said accordion, a worm gear having different sized threads on its peripheral edge, members connecting said clamping members with said worm gear, whereby the turning of said worm gear will move said clamping



members relative to said reeds to determine the pitch thereof.

2,162,836
DRESSING MECHANISM FOR GRINDING WHEELS
Allan H. Candee and George O. Richmond, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a corporation of New York
Application June 15, 1937, Serial No. 148,341
7 Claims. (Cl. 125—11)



1. A dressing attachment for a grinding machine comprising a support adapted to be mounted adjacent the wheel which is to be dressed, a slide reciprocable on said support, a dressing tool carried by said slide, spaced control means on said support controlling the movement of said slide, one of said control means comprising a fixed pivot about which the slide pivots on reciprocation thereof, and the other of said means comprising a templet and a follower, one of which is secured to the support and the other of which is secured to the slide, said templet having a straight guide surface engaging the follower and which is inclined to the direction of reciprocation of the slide.

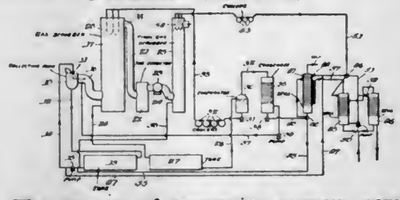
2,162,837
MACHINE-KNIT FABRIC
Doris H. Cavanaugh, Newton, Mass.
Application July 16, 1936, Serial No. 90,876
Renewed November 12, 1938
3 Claims. (Cl. 66—202)

3. A knitted textile fabric for outer apparel, said fabric composed basically of a woven ribbon of the narrow-fabric type used as a thread or yarn in knitting the fabric, said fabric in general and throughout all main portions having a loose semi-porous structure wherein the knitting formations of the ribbon are sufficiently close to obscure view through the fabric and conform it to the dictates of modesty, and said fabric also being of a highly flexible, limp, light-weight and soft character, said ribbon being so knitted as to confine the overall thickness of the resulting fabric to approximately the width of the ribbon, said fabric having as to said main portions a stitch structure such



as to present upon at least one face exposed lengths of the ribbon extending laterally between lines of knitting loops and displaying areas of the ribbon of about one-half the width of the ribbon in its flat condition.

2,162,838
PROCESS FOR PURIFICATION OF GASES
Amos N. Cole and Arthur L. Tannehill, Gary, Ind.
Application April 6, 1936, Serial No. 73,004
5 Claims. (Cl. 23—3)

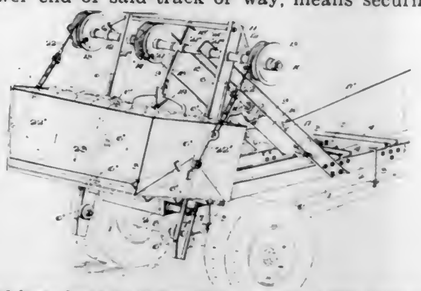


1. The process of recovering gaseous components from coke oven gas, coal gas, and the like, which consists in scrubbing the hot gas with a suitable cool scrubbing liquid, controlling the volume of the scrubbing liquid so as to cool the gas and to heat the scrubbing liquid by a substantial amount, subjecting the hot scrubbing liquid to evaporation under a pressure substantially below atmospheric pressure without the application of extraneous heat, thereby utilizing the sensible heat in the liquid for evaporation, collecting the vapors containing the gaseous components to be recovered, cooling the unevaporated scrubbing liquid and returning the same to the scrubber.

2,162,839
TRANSPORTING AND DUMPING VEHICLE
George R. Dempster, Knoxville, Tenn.
Application January 17, 1938, Serial No. 185,419
3 Claims. (Cl. 214—100)

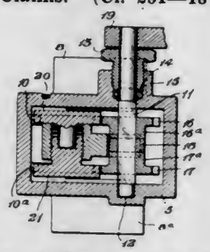
1. In a transporting and dumping vehicle, the combination of an upwardly extending track or way, a shaft extending across the upper portion of said track or way and with its ends projecting out beyond the said track or way, drums keyed to the projecting ends of said shaft, a container movable up and down on said track or way,

flexible connections passing around said drums and engaging said container, brace bars engaging said shaft, means spacing the ends of said brace bars along said shaft, base bars secured to the lower ends of the brace bars and pivoted to the lower end of said track or way, means securing



said base bars to the vehicle frame, a third drum keyed to said shaft intermediate the rails of the track or way, a power device mounted on and between said brace bars and a cable connected to said power device and extending around said third drum.

2,162,840
VALVE
Virgil L. Du Bois, Tulsa, Okla.
Application December 4, 1937, Serial No. 178,166
5 Claims. (Cl. 251—18)



1. In a valve of the type described, a valve housing having substantially aligned inlet and outlet ports, opposed relatively-axially-movable toothed valve discs mounted for simultaneous rotary and bodily arcuate movement to close and open said ports, a rotatable valve-actuating shaft mounted in said housing, drive gears mounted on said shaft in mesh with the teeth of said discs, a toothed drive rack in said housing also in mesh with the teeth of said discs, and an expanding and contracting member in the form of a threaded collar mounted between said discs and provided with a yoke member having an auxiliary movable connection with said shaft whereby the collar is held against rotation yet is permitted to move axially between said discs.

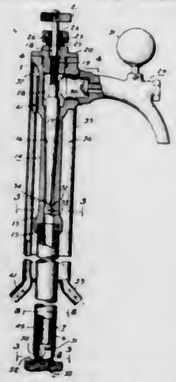
2,162,841
THREAD CORES
Charles K. Dunlap, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a corporation of South Carolina
Application March 8, 1937, Serial No. 129,763
2 Claims. (Cl. 242—119)

1. A paper core for supporting a thread package during a dyeing operation comprising a tube having a plurality of convolutions secured together and having a plurality of perforations formed in the wall thereof for the passage of dye liquid, portions of the outer convolution of the tube being outwardly deflected to provide circumferentially spaced longitudinally extending ridges upon which the inner windings of a thread



package may rest and be supported, the remaining portions of the outer convolution, intermediate said ridges, resting against and being supported by the next inner convolution of the tube.

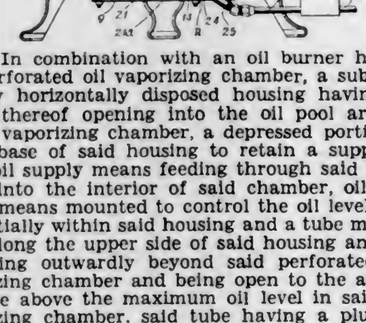
2,162,842
BEVERAGE DISPENSER
Dewey H. Dolison, Mount Vernon, and Wallace R. Kromer, Cleveland, Ohio, assignors to Oil Heating Devices, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 9, 1937, Serial No. 124,808
19 Claims. (Cl. 225—1)



3. A dispenser for drawing a beverage such as beer and the like directly from a container in which the beverage is transported, comprising a tubular conduit substantially straight and substantially without turns or bends, said conduit having an intake end receivable in the container and arranged to be immersed in the beverage, and a dispensing end extending only a short distance from the container, a tap at the dispensing end of the conduit having valve means arranged to operably permit the withdrawal of beverage from the container through the conduit, and means carried by the conduit and independent of said valve means for adjustably regulating the resistance to the flow of beverage through the conduit, said last named means being adjustable while beverage is being drawn from the container, whereby the most desirable resistance to flow for each container may be individually selected and is maintained regardless of the number of times beverage is drawn.

2,162,843
SPRING SUSPENSION
Vernon W. Erickson, Grand Coulee, Wash.
Application December 10, 1938, Serial No. 245,005
2 Claims. (Cl. 280—106.5)

1. The combination with an axle of an automobile, and a chassis frame, of a pair of flat resilient load supporting side bars secured edgewise upon said axle in parallel relation to extend therefrom, and a transverse spring fixed at its opposite ends to extended ends of said bars and supporting said



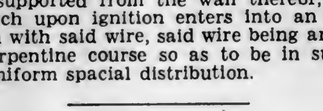
chassis frame, said bars flexing laterally between the axle and said spring, the other ends of said bars being connected to a relatively fixed part of the automobile.

2,162,844
OIL PILOT DEVICE
Kenneth S. Jenson, Albert Lea, Minn., assignor to American Gas Machine Company, Incorporated, Albert Lea, Minn., a corporation of Delaware
Application November 19, 1937, Serial No. 175,459
6 Claims. (Cl. 158—91)

1. In combination with an oil burner having a perforated oil vaporizing chamber, a substantially horizontally disposed housing having an end thereof opening into the oil pool area of said vaporizing chamber, a depressed portion in the base of said housing to retain a supply of oil, oil supply means feeding through said housing into the interior of said chamber, oil control means mounted to control the oil level substantially within said housing and a tube mounted along the upper side of said housing and extending outwardly beyond said perforated vaporizing chamber and being open to the atmosphere above the maximum oil level in said vaporizing chamber, said tube having a plurality of downwardly directed openings within the housing, said openings being of small total area to support combustion of a pilot flame.

2,162,845
FISHING SPOON
Guy D. Jones, Portland, Oreg.
Application April 28, 1937, Serial No. 139,402
5 Claims. (Cl. 43—45)

1. A fishing lure defined in part as a wire, a spoon mounted for rotation in angular relationship to the wire and a strut made rigid with the spoon and rotatably mounted on the wire behind

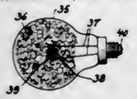


the tip of the spoon, the said strut being characterized by presenting a helicoidally curved surface angular to the axis of the wire that is substantially shielded by the spoon.

2,162,846
PICKLING
Alfred M. Kirchner, South Hills, and Hugh E. Romine, Pittsburgh, Pa.
No Drawing. Application January 15, 1938, Serial No. 185,228
1 Claim. (Cl. 148—8)

A process of preparing steel articles for vitreous enameling, including immersing the articles in an acid pickling solution having a hydrogen sulphide content constantly maintained at a concentration of at least .04 per cent. by volume of the solution, removing the articles from said solution and rinsing them clean.

2,162,847
FLASH LAMP
Cornelis Korver, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Original application April 26, 1935, Serial No. 18,457. Divided and this application July 16, 1936, Serial No. 91,003. In Germany May 18, 1934
3 Claims. (Cl. 67—31)

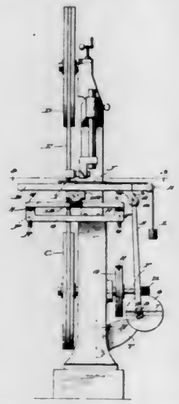


2. A flash-lamp comprising a container of actinic light-transmitting material having an active portion, a mass of thin undulated wire disposed within said active portion so as to be elastically supported from the wall thereof, and a gas which upon ignition enters into an actinic reaction with said wire, said wire being arranged in a serpentine course so as to be in substantially uniform spacial distribution.

2,162,848
SAWING MACHINE
Harry W. Kulp, Lancaster, Pa., assignor to K-D Manufacturing Company, Lancaster, Pa., a corporation of Pennsylvania
Application April 27, 1937, Serial No. 139,291
4 Claims. (Cl. 29—68)

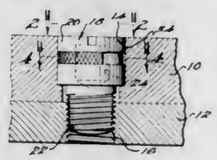
1. A band saw machine frame, an endless band saw, means journalled in said frame for driving said band saw, an adjustable platform mounted on said frame, means for selectively holding said platform in a horizontal and various inclined adjusted positions about a central axis, a work supporting table, means for rockably mounting said table on said platform for oscillatory movement about an axis extending at right angles to the blade of said band saw, in combination with a socket member rigid with and extending from said table, a counter-shaft, a pitman connected to and driven by said counter-shaft, means for adjusting the throw of said pitman, driving connections between said saw driving means and

said counter-shaft for driving the latter and a ball carried by said pitman and received in said socket to constitute a ball and socket drive connection, the center of said ball and socket joint



lying substantially in a plane intersecting said central axis and extending substantially parallel to and substantially coincident with the operative portion of the band saw.

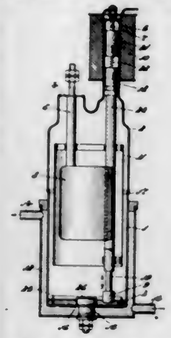
2,162,849
LOCKING DEVICE
Howard E. Landis, Detroit, Mich.
Application January 14, 1938, Serial No. 184,933
10 Claims. (Cl. 151—32)



6. In a device of the class described, a screw member having a fillister head, means forming a substantially cylindrical recess within said head longitudinally thereof, a substantially cylindrical member movably received within said cylindrical recess, said cylindrical member having a portion of its wall shaped to form a cam surface, said head having an aperture through the wall thereof communicating with said cylindrical recess adjacent said cam surface, and means having a portion extending through said aperture engaging said cam surface and having a portion normally substantially flush with the outer periphery of said head adapted to extend outwardly therebeyond upon relative movement between said cylindrical member and said head.

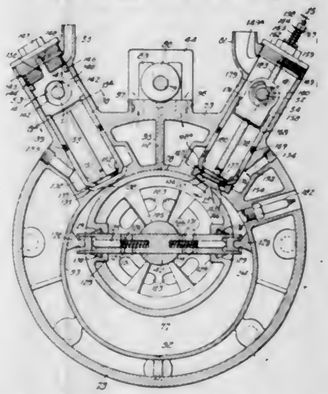
2,162,850
MERCURY CATHODE DISCHARGE TUBE
Hendrik Lems and Cornelis Bastiaan Los, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application June 26, 1937, Serial No. 150,623
In Germany July 6, 1936
7 Claims. (Cl. 250—27.5)

1. A discharge tube comprising an envelop, an anode, a mercury cathode, and a cathode-spot anchoring body, said body comprising a nickel



substratum, and a thin protective layer of platinum.

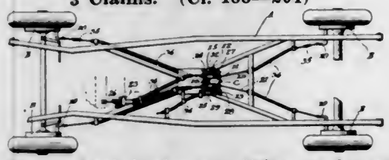
2,162,851
ROTARY INTERNAL COMBUSTION ENGINE
William Lister, Chicago, Ill.
Application July 3, 1934, Serial No. 733,572
Renewed July 20, 1938
20 Claims. (Cl. 123—16)



8. In a combustion engine, the combination with a cylinder, of a rotor mounted therein, contact members carried by the rotor cooperating with the inner periphery of the cylinder, means to prevent its gaseous contents passing a median line, separate ports to the cylinder on one side of said median line for the admission of combustible mixture and for the admission of air, separate ports to the cylinder on the other side of said median line for the discharge of burnt gases and for the discharge of compressed air, valves controlling said ports, and means for operating said valves in the proper sequence so that after one contact member is driven by an explosive charge and compresses the air admitted before it, the following contact member scavenges the cylinder and draws in a charge of air to be compressed.

12. In a device of the class described, a rotor having a blade sliding therethrough, wedge-shaped recesses in the rotor, correspondingly wedge-shaped packing strips in the recesses cooperating with the blade near the surface of the rotor and moving radially only relative to the rotor and parallel to and in contact with the blade so that the centrifugal force of the strips tends to wedge them tightly against the surface of the blade.

2,162,852
FOUR WHEEL BRAKE EQUALIZING AND CONTROL MECHANISM FOR VEHICLES
Alfred Charles Mayes, Walkerville, Ontario, Canada
Application June 16, 1938, Serial No. 214,074
In Canada October 25, 1937
3 Claims. (Cl. 188—204)



1. Four wheel brake equalizing and control mechanism for vehicles comprising a rotatable drum, means for slidably mounting said drum on the vehicle, means connecting said rotatable drum with the brake operating mechanism of the vehicle to cause rotation of said drum when said mechanism is operated, cable means common to pairs of said brakes and connected to the applicators therefor, and pulleys mounted on said drum for slidably receiving and actuating said cables when said drum is rotated.

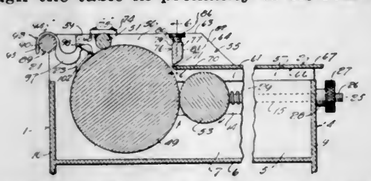
2,162,853
CONTAINER
William Broaddus Massey, Southampton, Middlothian District, Va.
Application January 29, 1938, Serial No. 187,747
7 Claims. (Cl. 229—5.5)



1. A container for plastic material and the like having a filling end and an opposing end, a closure readily securable to and readily removable from said filling end, whereby said container may be filled, the closure readily applied and subsequently readily removed for giving access to the contents, and a cap overlying said opposing end, the body of said container being substantially impervious to air and having an opening adjacent the opposing end and located to lie beneath said cap, said cap being movable to filling and retaining positions on the container body and having an opening therein so located that when the cap is in the filling position with respect to the container body, the openings in the container body and the cap will be in registry and when the cap is moved to retaining position said openings will be out of registry and the opposed end closed to retain the plastic material therein.

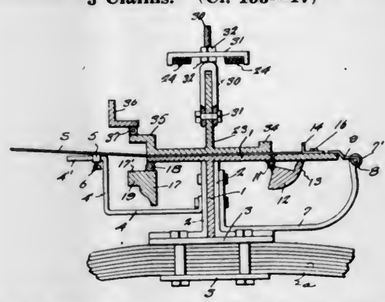
2,162,854
GLUING MACHINE
Robert Minkow, New York, N. Y., assignor to Hobbs Sales & Service Station, Inc., New York, N. Y., a corporation of New York
Application October 27, 1937, Serial No. 171,369
6 Claims. (Cl. 91—51)

1. In a gluing machine, a horizontally disposed work supporting table adapted to have its rear end disposed in close proximity to an adhesive applying roll for the work, a bar disposed transversely of the inner end of said table and having its rear side aligning with the rear edge of the table, said bar formed at its ends with oppositely disposed apertured ears, a pair of threaded headed bolts extending upwardly through the table in proximity to its rear edge,



the heads of said bolts bearing against the lower face of the table, said bolts extending through and projecting above said ears, adjusters for the bar threadably engaging with the bolts above and bearing on said ears, and coil springs encompassing said bolts and interposed between said ears and the upper face of the table.

2,162,855
SHEET METAL BENDING MACHINE
John H. Nelson, Jr., Cadott, Wis.
Application April 1, 1938, Serial No. 199,535
3 Claims. (Cl. 153—17)

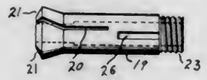


1. An apparatus for bending sheet metal comprising a beam having a flat upper part, a second beam having a flat lower part for clamping a part of a sheet between itself and the flat part of the first beam, means for applying pressure to the second beam, means for moving the second beam vertically, a bending bar hinged to one side edge of the first beam and having a bending lip thereon for bending an edge portion of the sheet over an edge of the upper beam, a bending bar hinged to the opposite edge of the first beam and having a tongue thereon for bending the opposite edge of the sheet, auxiliary sheet supports at opposite sides of the second beam, adjustable abutments carried by said auxiliary supports, one auxiliary support having a pivoted portion extending over the first bending bar and shifted upwardly thereby when the bar is swung upwardly, the second beam having an upstanding angle shape part for receiving the tongue when the second bar is swung upwardly, a third bending bar hinged to the edge of the angle part of the second beam for bending a portion of the sheet over the tongue, and means for moving said bars.

2,162,856
INDEXING WORK HOLDER
Joseph K. Nitsch, Syracuse, N. Y.
Refiled for abandoned application Serial No. 487,063, October 7, 1930. This application April 20, 1937, Serial No. 137,920
3 Claims. (Cl. 90—59)

1. In an indexing work holder in combination

a split collet chuck provided with a longitudinal groove and a collet draw back nut threaded on said chuck; means for operatively retaining the same comprising a square block concentrically bored throughout its length, said bore tapering outwardly at one end for engagement with the tapered outer portion of said collet chuck and forming a recess at the other end to retain said draw back nut within said recess against longi-



tudinal movement in the direction of the tapered portion of said block, the outer square surfaces of said block being longitudinally parallel with the axis of said bore and equi-distantly disposed in relation thereto; and detent means in the wall of said block slideably engaged by the said groove in the split collet chuck to allow longitudinal movement of said collet chuck while resisting rotary movement thereof.

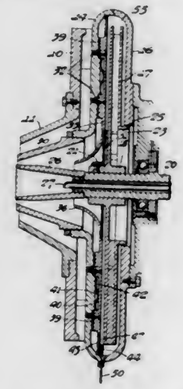
2,162,857

AIR CONTROL FOR FLUID FUEL BURNERS

Harry C. Olvitt, York, Pa., assignor to York Oil Burner Company, Inc., York, Pa., a corporation of Delaware

Application December 26, 1934, Serial No. 759,301

13 Claims. (Cl. 158—77)



1. In an air control device for an oil burner having an air inlet, a fan casing associated with said air inlet, a fan in said casing for building up pressure within said air casing at the periphery thereof, an air snout, a pressure plate within said fan casing and having a conical orifice located coaxially of said snout, and means for dividing at will the discharge of air from said fan between the inside of the conical orifice and the outside of said conical orifice.

2,162,858

SHOULDER PAD

Clyde Ely Pankey, Jefferson City, Mo.

Application July 5, 1938, Serial No. 217,599

2 Claims. (Cl. 2—268)

1. As a new article of manufacture, and as a component part of an assemblage of the class described, comprising a shoulder pad for imparting a full and proper form to the shoulders of a human, said pad being substantially rectangular in form, and being substantially straight from end to end, and adapted to be compressed to conform to the shoulder of the wearer, a padding of soft light weight material, a covering of fine mesh for said material, the front end of the pad adjacent the arm being thicker and wider in cross sec-



tional dimension than the opposite end of said pad, and attaching straps disposed on the bottom of said pad to provide a loop to accommodate the strap of a garment for holding the pad in position.

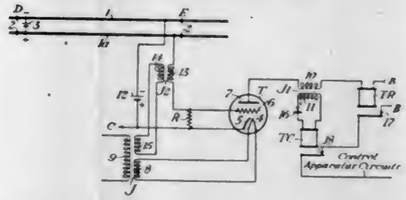
2,162,859

RAILWAY TRAFFIC CONTROLLING APPARATUS

John M. Pelikan, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application March 31, 1938, Serial No. 199,236

6 Claims. (Cl. 246—34)



1. In combination, a section of railway track; an electron tube having a plate, a grid and a cathode; a first source of current connected across the rails at one end of the section, circuit means to connect said grid and cathode of said tube across the rails at the other end of the section, a second source of current interposed in said circuit means and disposed to oppose the electromotive force of said first source, a plate circuit responsive to the equilibrium of electromotive force of said first and second sources, a first relay responsive to said plate circuit, a third source of current impressed across said grid and cathode of said tube, and a checking relay controlled by the plate circuit responsive to electromotive force of said third source of current.

2,162,860

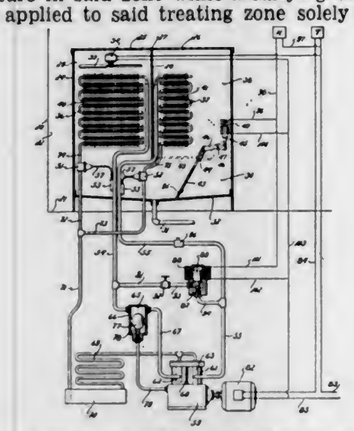
AIR CONDITIONING SYSTEM

Lawrence A. Philipp, Detroit, Mich., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Application February 3, 1934, Serial No. 709,662

5 Claims. (Cl. 62—6)

5. The method of conditioning air in a treating zone which comprises, causing air to circulate at a substantially constant rate, controlling the amount of sensible heat removed from the air by reducing the temperature of said zone in accordance with a demand for reduction in temperature of the air, and controlling the amount of latent heat removed from the air during said demand by effecting a further reduction in temperature in said zone while modifying the heat load applied to said treating zone solely in ac-



cordance with changes in the relative humidity of the air.

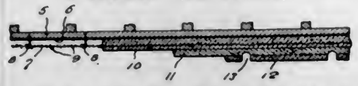
2,162,861

FINISH FOR WALLS

Louis Polak, Bethlehem, Pa.

Application October 25, 1937, Serial No. 170,914

2 Claims. (Cl. 72—17)



1. In combination with a building wall, a sheet of waterproof material applied to said wall, flat sheet open-work metal fastened to said wall in spaced parallel relation to said waterproof material, a thick layer of rough lime plaster applied so as to completely fill the openings in and cover both sides of said sheet open-work metal and to fill the space between said waterproof material and said open-work metal, a layer of relatively thinner colored smooth and waterproofed plaster applied to said first layer of plaster, and a relatively thin coating of plaster of a color contrasting with that of said second layer applied over said second layer, portions of said second and third layers being removed to clearly reveal portions of said second layer through said third layer and produce a design.

2,162,862

ATTITUDE CONTROL MEANS FOR AIRCRAFT

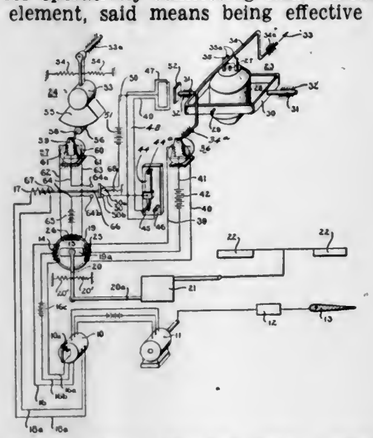
Armand Protzen, Berlin-Spandau, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany

Application May 20, 1938, Serial No. 209,117

In Germany May 22, 1937

8 Claims. (Cl. 244—77)

4. In an attitude control device for aircraft, a course control surface, power means therefor, transverse inclination control surfaces, power means therefor, a control element for said last-named power means, speed control means for said first-named power means, means for exerting a force of constant magnitude upon said control element, an artificial horizon having transverse inclination control means associated therewith, a banking acceleration indicator, said artificial horizon being operatively connected to said control element, and means for rendering ineffective said transverse inclination control means and for operatively connecting said indicator to said element, said means being effective when



said course control surface power means are energized.

2,162,863

STABLE PRODUCTS SHORTENING THE BLEEDING PERIOD

Otto Ripke and Karl Döttl, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application July 7, 1936, Serial No. 89,460. In Germany July 12, 1935

5 Claims. (Cl. 167—74)

1. In the process for the preparation of a stable product shortening the bleeding period the steps which comprise extracting organs selected from the group consisting of the spinal cord and brain of mammals with an about 50% aqueous alcohol and drying the extract obtained under sterile conditions.

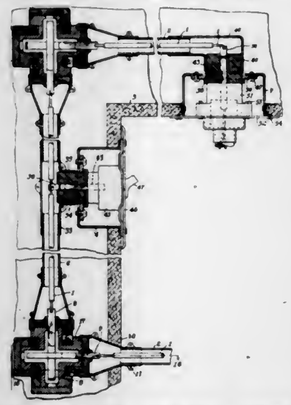
2,162,864

PREFABRICATED WIRING SYSTEM

Walter S. Rugg, Pittsburgh, and Henry D. James, Edgewood, Pa.

Application March 19, 1937, Serial No. 131,774

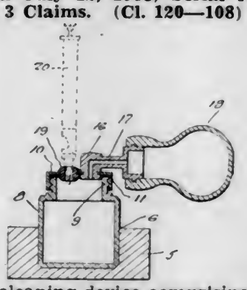
2 Claims. (Cl. 174—70)



1. A prefabricated electrical wiring system comprising a plurality of sections of pre-cut conduit of predetermined length, conductors in each

of said sections, an insulating block disposed in the ends of and closing each section, and having a contact blade projecting therefrom to which a conductor end is secured within the section, junction receptacles for connecting the sections, contact sockets in said receptacles for receiving the contact blades projecting from the ends of the sections, the insulating block of the conduit sections and the junction receptacles having complementary-shaped interacting faces for relieving the strain on the blade terminals, and interlocking means to prevent displacement of the conduit and receptacle members when in their assembled position.

2,162,865
PEN-CLEANING DEVICE
Benjamin W. Sewell, Tulsa, Okla.
Application July 12, 1938, Serial No. 218,887
3 Claims. (Cl. 120—108)



1. A pen cleaning device comprising a support, containers mounted on said support and one of said containers adapted to receive a cleaning solution, means for obtaining from the latter-named container a selected amount of the solution for introduction into a pen to be cleaned, means carried by the other container for the accommodation of the pen with the point thereof protruding in the latter-named container, and means for creating a partial vacuum in the latter-named container for drawing from the pen the cleaning solution along with ink and other foreign matter.

2,162,866
METHOD OF PRODUCING WATERPROOF, FORM-RETAINING ARTICLES, AS HATS, FROM TEXTILE GOODS
Hans Siber, Zurich, Switzerland, assignor to the firm Grieder & Cie, Zurich, Switzerland
No Drawing. Application March 9, 1937, Serial No. 129,963. In Germany April 25, 1936
5 Claims. (Cl. 154—2)

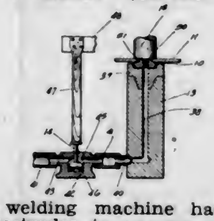
1. In a method of producing form-retaining, light weight, air pervious, three-dimensionally shaped articles, resistant to water, from a single layer of very light, open-mesh, knitted fabric of extensible structure, the steps comprising taking an extensible knitted fabric formed of compound yarns consisting essentially of strands of two substantially non-extensible substances, one of said substances being an organic cellulose ester insoluble in water and the other one being an ordinary textile fiber, the said strands being combined so as to form compound yarns which will not stretch when the cellulose ester is in adhesive condition, forming an article from said fabric by first stretching the fabric into the desired shape while cold and while the cellulose ester is in non-plastic condition without exceeding the inherent extensibility of the fabric and thereby pulling its compound yarns into tautened condition so as to form contacting junctions between the yarns strongly pressed together, and after the shaping treating the shaped fabric with a solvent for the cellulose ester in which the other fiber is not soluble so as to render the cellulose ester adhesive and to cause the compound yarns to become strongly secured together at the said contacting junctions and to permanently fix and stiffen the fabric structure in its ultimate shape without impairing its porosity.

2,162,867
RUG CROQUET WICKET
L Julian Smith, Long Beach, Calif.
Application February 5, 1937, Serial No. 124,225
2 Claims. (Cl. 273—56)



1. A rug croquet wicket comprising a wire arch, a substantially circular foot on the lower end of each leg of the arch, the lower end of each leg of the arch being formed as a spur, said spurs projecting downwardly and outwardly and being arranged in the plane of the arch.

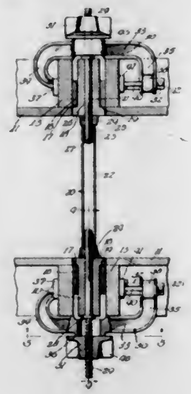
2,162,868
WELDING MACHINE
William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application September 22, 1936, Serial No. 101,990
6 Claims. (Cl. 219—4)



4. In a welding machine having relatively movable electrodes to accommodate apertured work pieces therebetween, a source of fluid pressure, and one of said electrodes having a passage to register with the aperture in the work piece and connected with said source of pressure whereby fluid is discharged through the aperture to prevent welding flash adhering to the walls of the aperture.

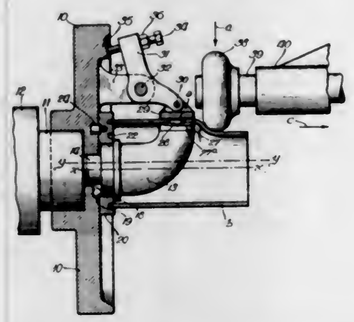
2,162,869
FORM STRUCTURE FOR CONCRETE WALLS
Arthur H. Symons, Chicago, Ill., assignor to Symons Clamp & Mfg. Company, Chicago, Ill., a corporation of Delaware
Application April 23, 1937, Serial No. 138,555
3 Claims. (Cl. 25—131)

1. In a form structure of the character described, the combination of a pair of laterally spaced walls adapted to have concrete poured therebetween and comprising opposed uprights with shoulder forming enlargements along the inner portions thereof and panels fitting against the sides of the uprights, elongated devices for holding the walls in spaced relation extending between and through the uprights, adjustable C-type clamps on the ends of the devices for clamping the panels sidewise against the sides of the uprights, and means applied to said ends



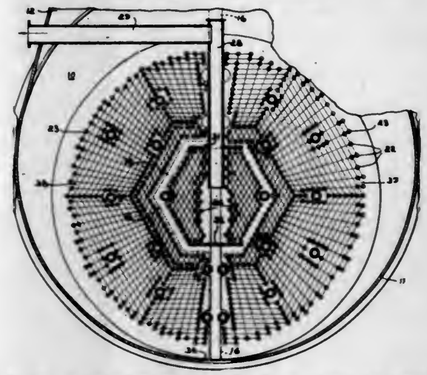
of the devices outwardly of the clamps and operating through the latter to urge the panels inwards and maintain the side margins of the latter in clamped relation with the enlargements.

2,162,870
METHOD OF MAKING T'S
James Hall Taylor, Oak Park, Ill.
Application December 19, 1938, Serial No. 246,527
7 Claims. (Cl. 29—157)



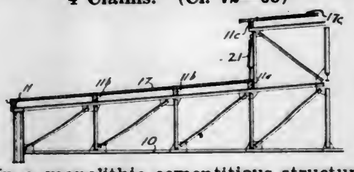
1. The method of making a T, which comprises rotating a tubular cylindrical metal blank about an eccentric axis extending through and nearer one side of the blank than the opposite side thereof, rolling down the end portions of the blank to concentricity with such eccentric axis and to an interior radius equal to the distance between said axis and said nearer side of the blank, by a roller moving radially inward of said blank with relative movement between said roller and blank lengthwise of the latter, while restraining the midportion of the opposite side of said blank against inward movement, thereby producing a partially formed T having a body with arms of less diameter than the original blank and a protuberance at the opposite side of the body between the arms, and completing the T by forming the protuberance into a neck.

2,162,871
CONDENSER
Charles B. Tuley, Glenolden, and John W. McNulty, Ridley Park, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 6, 1938, Serial No. 200,344
3 Claims. (Cl. 257—43)



3. In a condenser, a shell, a nest of tubes within the shell and defining, with respect to the latter, a steam space which substantially encompasses the nest and the shell having an exhaust steam admission opening communicating with the space, means cooperating with the tubes to provide for flow of water therethrough in first and second passes, the tubes of the passes being arranged in horizontally juxtaposed groups of substantially equal numbers of tubes and of substantially equal peripheral extents, the tube group of the first pass protruding reentrantly into the tube group of the second pass, with the cross-sectional area occupied by the first pass larger than that of the second pass and with the tubes of the first pass more widely spaced than those of the second pass, and an air offtake encompassed by tubes of the first pass and arranged at the region of the protruding tubes thereof, the outermost tubes of each pass being directly exposed to said steam space so that steam flows from the latter in parallel through the passes toward the offtake.

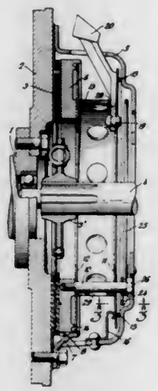
2,162,872
MONOLITHIC CEMENTITIOUS STRUCTURE
Eugene B. White, Oak Park, Ill.
Application June 21, 1937, Serial No. 149,357
4 Claims. (Cl. 72—68)



1. In a monolithic cementitious structure, the combination with supporting members, of joists extending transversely thereof, and reenforced cementitious slabs connecting the joists and having their ends resting on the edges thereof, said slabs having on one edge an obtuse angle and on the other a reentrant angle, so that the angle of one edge fits into the complementary angle of the adjacent slab, to leave a space between the upper portions of the edges filled with

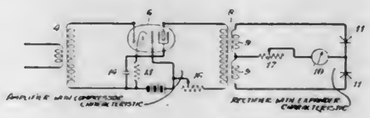
a mastic preparation to allow for expansion and contraction, the faces of the upper sides of both angles being at an angle to the vertical to resist upward movement of the mastic.

2,162,873
CLUTCH
William S. Wolfram, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 11, 1938, Serial No. 195,291
5 Claims. (Cl. 192—103)



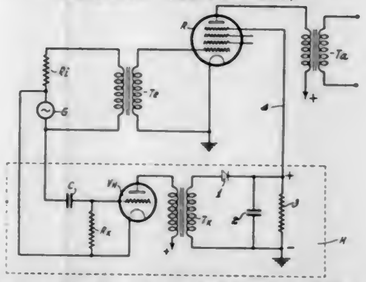
1. In a clutch mechanism, parts relatively movable to engage and disengage the clutch, a buckling spring capable of being deflected from a condition in which it is effective to hold the parts in a disengaged position to a condition in which it tends to hold the parts in an engaged position, and means for deflecting said buckling spring to the last named condition against the pressure of a biasing spring resiliently urging the buckling spring towards the first named condition; said means and said buckling spring together exerting a force transmitted through the biasing spring, to hold the clutch engaged.

2,162,874
ELECTRICAL MEASURING CIRCUIT
Alphons V. Wurmser, West Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 2, 1937, Serial No. 162,113
5 Claims. (Cl. 171—95)



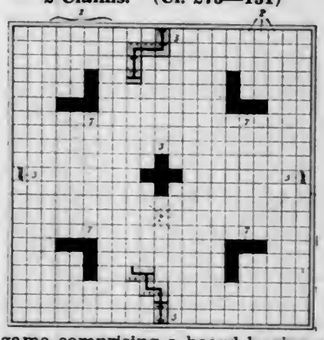
1. In a circuit for measuring the amplitude of a single frequency wave or the root mean square of a complex wave, an amplifier and a rectifier in tandem, a meter in the rectifier circuit, the amplifier circuit characteristic being non-linear and the rectifier circuit characteristic being non-linear in a complementary manner, and a transformer coupling the amplifier circuit and the rectifier circuit.

2,162,875
DYNAMIC EXPANSION CIRCUIT
Hans Bartels and Günther Ulbricht, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 27, 1936, Serial No. 113,021
In Germany December 2, 1935
2 Claims. (Cl. 179—171)



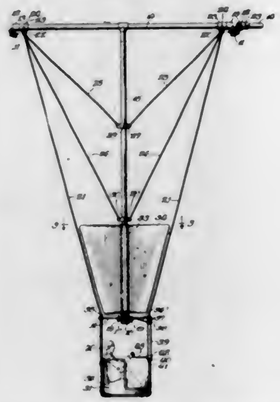
1. In combination with a source of audio-frequency currents, a tube provided with input electrodes, an output electrode, and a gain control electrode disposed adjacent the output electrode, an expansion circuit comprising a rectifier having an input circuit connected to said source, a resistor in circuit with said rectifier for developing a direct current voltage which increases with an increase in amplitude of current from said source, means for applying said direct current voltage to said gain control electrode in a sense to increase the tube gain, and said rectifier input circuit including a network whose constants are chosen to impart a frequency-response characteristic to the expansion circuit which varies with intensity inversely to the variation of the frequency-sensitivity curve of the ear.

2,162,876
BOARD GAME APPARATUS
William I. Barton, Camden, N. J.
Application September 7, 1937, Serial No. 162,680
2 Claims. (Cl. 273—131)



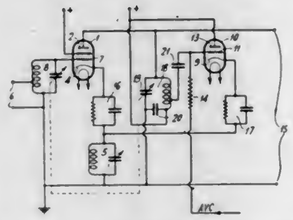
1. A game comprising a board having squares, starting points and obstacle areas marked thereon, in combination with a plurality of sets of functionally designated playing pieces supported on said board, some of said playing pieces being designated as functionally different by lines of different configurations, said pieces being adapted for play on said board in a series relation with other pieces and with relation to said squares, starting points and obstacle areas, said functional designations of individual pieces in series forming a continuous playing line, each said set of playing pieces comprising the following functionally different types: a horizontal piece, a vertical piece, a T-piece, an inverted T-piece, a cross piece, and four corner pieces, each said piece bearing functional directing lines extending over the face thereof and orienting marks.

2,162,877
AMUSEMENT DEVICE
Alvin Bisch, Chicago, Ill.
Application February 20, 1937, Serial No. 126,756
10 Claims. (Cl. 272—41)



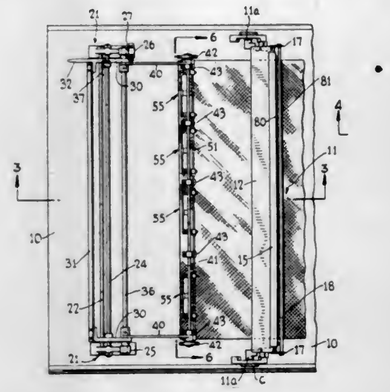
1. An amusement device comprising an overhead revolving structure, a horizontal shaft journaled on the outer end of said structure, a depending pipe secured to said shaft, a passenger carrying cab rigidly secured to the lower end of said pipe, and a rudder pivotally associated with said cab for controlling the direction of travel of said cab.

2,162,878
AUTOMATIC GAIN CONTROL CIRCUITS
Joseph Douglas Brailsford, London, England, assignor to Radio Corporation of America, a corporation of Delaware
Application January 26, 1937, Serial No. 122,359
In Great Britain February 3, 1936
6 Claims. (Cl. 179—171)



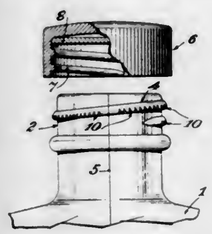
2. A method of receiving modulated carrier waves which includes the steps of amplifying collected waves, deriving alternating current voltages from amplified waves, impressing one of the voltages in degenerative phase upon the amplifier input, impressing a second of the voltages upon said amplifier input in regenerative phase, and controlling the relative magnitudes of the two voltages in response to carrier wave amplitude variations.

2,162,879
END GRIPPER FOR CLOTH LAYING MACHINES
Maximilian Breth, Ozone Park, N. Y.
Application October 21, 1937, Serial No. 170,217
23 Claims. (Cl. 270—30)



1. An end gripper comprising a pivoted member, means on said member to engage one or more layers of cloth, means for vertically adjusting the height of the fulcrum of said pivoted member, and means for fixing the fulcrum of said lever at various heights, said pivoted member being free to swing about its fulcrum without moving said fulcrum, in the various positions of said fulcrum.

2,162,880
PACKAGE AND PART THEREOF
Banks D. Brown, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a corporation of Delaware
Application August 27, 1936, Serial No. 98,145
5 Claims. (Cl. 215—43)



5. As an article of manufacture, a closure cap molded from a plastic molding compound having a cover portion and a depending skirt, an inclined helical thread extending continuously about the interior of the skirt of the cap to cooperate with a similarly inclined helical thread on a container, said cap thread being provided with roughened portions on its engaging surface for contacting the surface of the container thread simultaneously over a substantial part of the length thereof and being adapted to engage the surface of the container thread to substantially increase the resistance of the cap to rotation to provide a braking action and to prevent the cap from being applied so tightly it is likely to be broken.

2,162,881

TREATMENT OF ORGANIC MATERIALS

Henry Dreyfus, London, and Robert Wighton Moncrieff and Frank Brentnall Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application April 2, 1937. Serial No. 134,530. In Great Britain April 8, 1936
9 Claims. (Cl. 8—130)

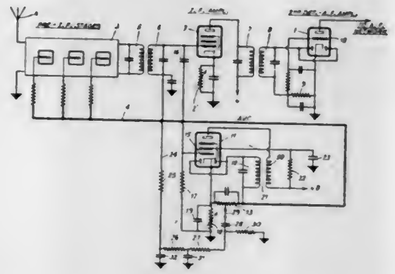
1. Process for the production of improved artificial materials, which comprises saponifying filaments, yarns, ribbons and like materials having a basis of organic ester of cellulose, by treatment with an aqueous solution of an organic nitrogenous base in which an aromatic group is linked to the basic nitrogen through an aliphatic group.

2,162,882

RECEIVER PERCENTAGE MODULATION CONTROL CIRCUIT

Paul O. Farnham, Mountain Lakes, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 28, 1936, Serial No. 107,928
10 Claims. (Cl. 250—20)



1. A method of receiving signals with a radio receiver of the type comprising at least two cascaded carrier wave amplifiers resonant to a predetermined carrier frequency and a detector, which includes the steps of varying the gain of the first of said amplifiers in response to wave amplitude variations and in a sense to maintain the wave amplitude at the detector input substantially uniform, rectifying received carrier energy, separating from the rectified energy a predetermined fraction of the audio frequency components of the entire modulation frequency band of the carrier wave, and impressing upon the second of said amplifiers said predetermined fraction of the audio frequency components.

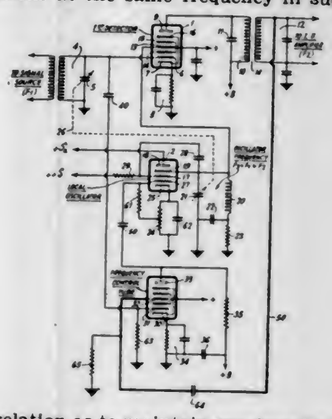
2,162,883

AUTOMATIC FREQUENCY CONTROL SYSTEM

Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 31, 1937, Serial No. 133,946
6 Claims. (Cl. 250—20)

1. A method of reception which includes collecting signal modulated energy of a desired carrier frequency, generating local oscillations of a different frequency, combining the signal energy with said oscillations to produce energy of a different frequency, combining said signal energy with difference frequency energy to produce other oscillations of said different frequency, and combining the said local oscillations with said other oscillations at the same frequency in such elec-



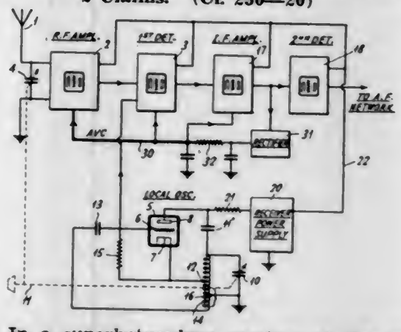
trical relation as to maintain synchronism therebetween.

2,162,884

SUPERHETERODYNE RECEIVER

Dudley E. Foster, South Orange, N. J., and Charles W. Finnigan, Forest Hills, Long Island, N. Y., assignors to Radio Corporation of America, a corporation of Delaware

Application January 4, 1938, Serial No. 183,244
2 Claims. (Cl. 250—20)



1. In a superheterodyne receiver of the type including a signal transmission tube, a local oscillator tube provided with a tunable tank circuit and an automatic volume control circuit arranged to vary the gain of the signal transmission tube; a common power supply circuit connected to said transmission tube and oscillator tube, and circuits electrically connected with said oscillator tube and tank circuit to introduce opposing frequency variations in said tank circuit upon a change of the oscillator tube plate potential caused by the automatic volume control action.

2,162,885

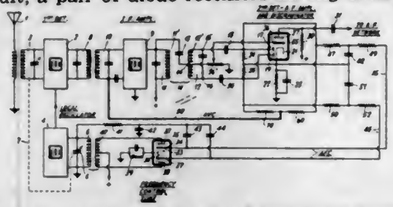
AUTOMATIC FREQUENCY CONTROL RECEIVER

Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 5, 1938, Serial No. 183,419
8 Claims. (Cl. 250—20)

1. In a detection network, a primary circuit, a secondary circuit coupled thereto, the two circuits each being tuned to a common frequency,

means establishing the midpoint of the secondary circuit at the potential of one end of the primary circuit, a pair of diode rectifiers having cathodes



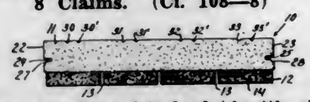
at a common potential, a load resistor connected between each diode anode and cathode, and means for coupling the diode anodes to opposite ends of the secondary circuit.

2,162,886

SURFACE COVERING

Marston Lovell Hamlin, Lynbrook, N. Y., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

Application February 4, 1937, Serial No. 124,023
8 Claims. (Cl. 108—8)



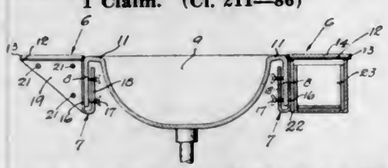
1. A shingle adapted to be laid with other like shingles in overlapping courses with a predetermined portion of its area exposed to the weather and the remainder of its area constituting the body portion and adapted to be covered by the overlapping course of shingles, said shingle having slots leading inwardly from opposite sides of said body portion and indicia above the slots for receiving supporting means for an overlying shingle, said supporting means adapted to be engaged by the slot in a side edge of the overlying shingle.

2,162,887

EXTENSION TABLE FOR WASHBASINS AND THE LIKE

Barbara Hart, San Francisco, Calif.

Application September 28, 1937, Serial No. 166,107
1 Claim. (Cl. 211—86)



An extension table for wash basins and the like comprising a top, a bracket secured to and extended downwardly from the top and adapted to fit over a depending side flange of said wash basin, means to fasten the bracket to said side flange so as to hold said top in extension of the usual rim of said basin, spaced transverse walls below and secured to said top, and means between and supported by said transverse walls to support articles in place below said table.

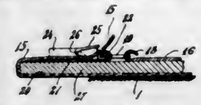
2,162,888

SKI CREEPER

Benjamin Held, Brooklyn, and Aryan Shayne, New York, N. Y.

Application August 31, 1938, Serial No. 227,732
5 Claims. (Cl. 280—11.13)

1. A ski creeper comprising in combination a strip of fur adapted to lie against the lower side of the ski, one end thereof being tapered; a flexible strip attached to such tapered end of the fur strip; a flexible loop carried by the flexible strip; a narrow strip affixed along the longitudinal center of the upper side of said fur strip and extending beyond the other end of said fur strip;



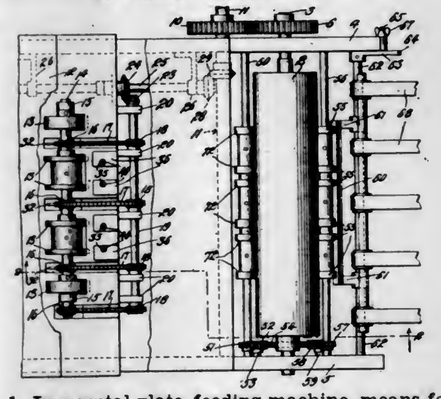
an element affixed to the upper side of the ski adjacent the rear end thereof; a U-shaped member detachably associated with said element; and a second element carrying a pressure member adapted to engage a free portion of said narrow strip, said U-shaped member being permanently associated with said second element.

2,162,889

SHEET FEEDING MACHINE

August Hormel, Hoboken, N. J., assignor to National-Standard Company, a corporation of Michigan

Application August 4, 1938, Serial No. 223,028
10 Claims. (Cl. 271—51)



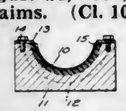
1. In a metal plate-feeding machine, means for halting a plate in a position of rest, said means comprising magnetized elements upon which the plate is rested, a magnet mounted adjacent to said elements and means for mounting said magnet whereby it may be moved to or from the magnetized elements to govern the magnetic force exerted by the magnetized elements upon the plate.

2,162,890

BEARING MATERIAL AND BEARING

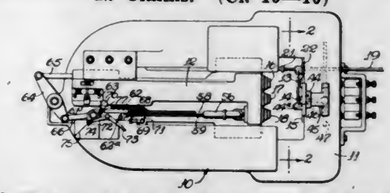
Harlan F. Horne and Eugene R. Perry, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 24, 1935, Serial No. 37,722
14 Claims. (Cl. 106—7.6)



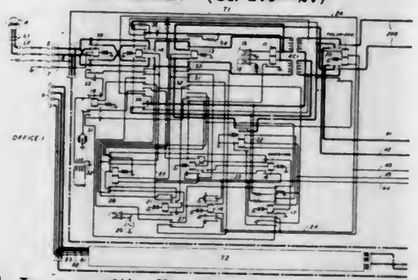
1. A bearing material comprising, in combination, a base material impregnated with a resinous binder and an inorganic mineral having no crystal cleavage plane and being of a particle size small enough for mixing with the resinous binder for impregnating the base material employed.

2,162,891
SCREW AND METHOD OF MAKING SAME
David E. Johnson, Rockford, Ill.
Application February 18, 1938, Serial No. 191,151
12 Claims. (Cl. 10—10)



1. The method of making gimlet point screws which comprises upsetting one end of a length of stock to form the head portion of the same and in the same operation extruding the other end portion to form the same in a generally beveled shape, shaping said upset head portion and in the same operation further extruding said other end portion to increase the length of the reduced section, and rolling a continuous thread on the stock extending from said other end thereof along the beveled portion and along at least a part of the intermediate portion of the stock.

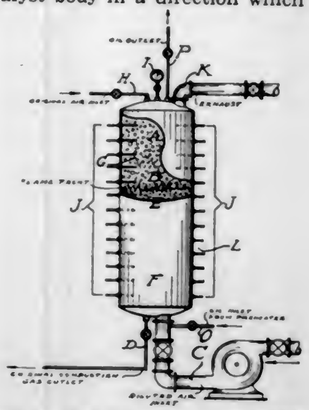
2,162,892
TELEPHONE SYSTEM
Charles D. Koechling, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 8, 1937, Serial No. 141,428
16 Claims. (Cl. 179—27)



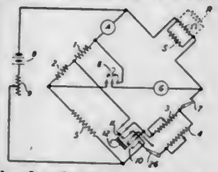
1. In a multi-office telephone system, subscribers' lines, a trunk between a first office and a second office, a selector in said first office for use on calls incoming over said trunk, a repeating coil in said first office normally connected to said trunk, a trunk connected to terminals in the bank of said selector for use on calls to a third office, and relay means effective upon interconnection of said trunks by the operation of said selector for switching said repeating coil out of the connection.

2,162,893
CATALYST REGENERATION
Paul E. Kuhl, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 1, 1938, Serial No. 227,897
7 Claims. (Cl. 23—238)

1. A method of regenerating a contact catalyst body containing combustible materials which comprises igniting the combustible material at one end of said catalyst body and introducing an oxygen-containing gas at the other end of said catalyst body and effecting a continuous flow of said oxygen-containing gas through the said catalyst body in a direction which is counter-current to the direction of progress of combustion.

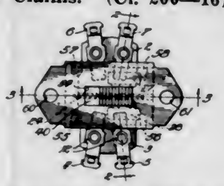


2,162,894
METHOD AND APPARATUS FOR MEASURING NONLINEAR IMPEDANCES
Mason A. Logan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 8, 1938, Serial No. 184,085
15 Claims. (Cl. 175—183)



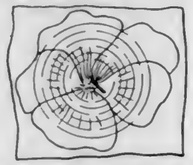
1. The method of measuring an impedance permanently shunted by an unknown linear impedance, said first-named impedance variable as a function of its terminal voltage, comprising successively impressing upon the terminals of the network formed by said shunted impedance two different known voltages and determining its value from the observed change in network impedance and an empirical constant.

2,162,895
ELECTRIC SWITCH
Edward J. Mastney, Berwyn, Ill., assignor to Oak Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 8, 1937, Serial No. 162,881
9 Claims. (Cl. 200—16)



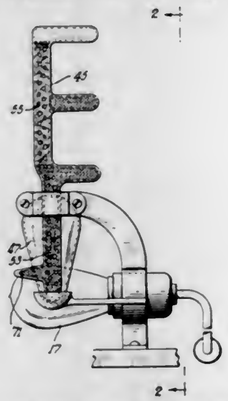
1. A switch comprising an insulating base having a plurality of stationary contacts mounted thereon and having a movable contact slidably disposed thereon and movable in a straight line on the base for switching purposes, a spring carried by said base and extending parallel to the line of motion of said contact, said spring having a portion up from the base, an insulating block slidably disposed on said base, said block having a channel therein, in which said spring is adapted to ride, means for loosely coupling said movable contact and said block so that both move on the base together and means on said block cooperating with said spring for defining index positions for said block.

2,162,896
COBWEB CUT-OUT
Arthur D. Norcross, New York, N. Y., assignor to Norcross, New York, N. Y., a partnership composed of Arthur D. Norcross and June Norcross Webster
Application March 14, 1938, Serial No. 195,668
2 Claims. (Cl. 46—35).



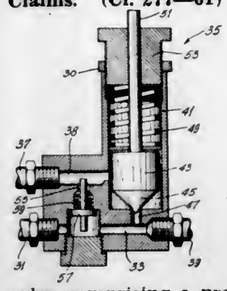
1. A greeting card comprising a sheet of material having a plurality of interrupted concentric slits therein forming an area of interconnected strips, and a finger pull secured to said sheet centrally of said slits whereby said strips may be expanded and moved uniformly from the surface of said sheet.

2,162,897
DISPLAY DEVICE
Philip Rosenblatt, Brooklyn, N. Y., assignor to Biolite Incorporated, New York, N. Y., a corporation of New York
Application February 8, 1937, Serial No. 124,623
6 Claims. (Cl. 40—130)



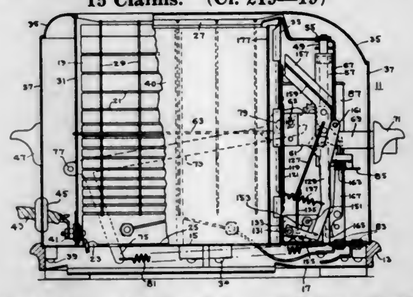
1. A display device comprising a pair of closed chambers, a tube connecting said chambers and permitting flow of liquid therebetween, a plurality of immiscible liquids contained therein, at least one of said liquids having a low boiling point, and means for creating such temperature differences between said chambers as to vaporize at least the most volatile liquid in one chamber and condense the vapor in the other chamber and thereby to produce continuous movement of vapor bubbles through said liquids and through said tube.

2,162,898
RELIEF DEVICE FOR LUBRICATING APPARATUS
Lutwin C. Rotter, Maplewood, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application January 17, 1938, Serial No. 185,315
7 Claims. (Cl. 277—61)



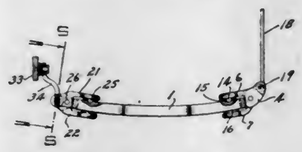
7. A relief valve comprising a pressure-transmitting passage, a by-pass, a first communication between said passage and said by-pass, a valve associated with the first communication normally biased to a closed position wherein any pressure difference up to a predetermined high pressure difference may be maintained between the passage and the by-pass without opening the valve, the valve being adapted to open at said predetermined high pressure difference and to remain open at a pressure difference between the passage and the by-pass which is of a value lower than said high pressure difference, a second communication between the passage and the by-pass, valve means in the second communication normally biased open toward the pressure-transmitting passage and adapted to open and remain open under a pressure at and below said lower pressure difference.

2,162,899
AUTOMATIC TOASTER
Robert Sardeson, Minneapolis, Minn., assignor to McGraw Electric Company, Chicago, Ill., a corporation of Delaware
Application February 28, 1938, Serial No. 193,096
15 Claims. (Cl. 219—19)



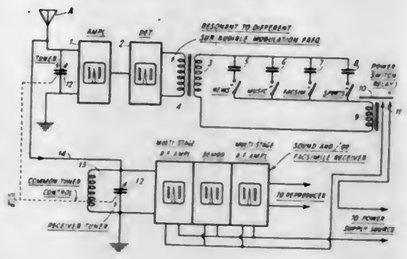
2. An automatic toaster comprising a heating element energizable to its full capacity only during a toasting operation, means to initiate a toasting operation and means to terminate a toasting operation, said terminating means including a single pivotally mounted thermostat biased to close heat receiving position relatively to said heating element and means on said terminating means and including a cam surface operatively engageable with the thermostat to determine the position of said thermostat relatively to said heating element.

2,162,900
EYEGLASS MOUNTING
Ethelbert H. Smythe, Detroit, Mich.
Application April 15, 1937, Serial No. 137,086
3 Claims. (Cl. 88—47)



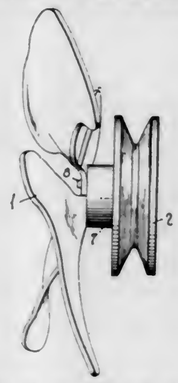
3. A mounting for the lenses of eyeglasses comprising the association with a lens having a recess in the face adjacent the edge thereof, of a pair of levers pivoted to turn on an axis parallel with the plane of the lens at the edge, at least one of the levers on one side of the pivot point having a projection fitting the recess in the lens and the corresponding end of the other lever engaging the opposite face of the glass, the ends of the levers on the opposite side of the pivot point having flat surfaces provided with apertures, said surfaces being in a plane at a right angle to the plane of the lens at the edge, the apertures in the said ends being brought to registration when the first named ends of the levers are moved to clamping engagement with the lens, and a headed screw member inserted in the aligned apertures to maintain said clamping engagement, said screw member cooperating with means on an ophthalmic element of the eyeglass to secure said element to said mounting.

2,162,901
RECEIVER SUBAUDIBLE MODULATION CONTROL CIRCUIT
Arthur F. Van Dyck, Yonkers, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 10, 1935, Serial No. 53,717
5 Claims. (Cl. 250—20)



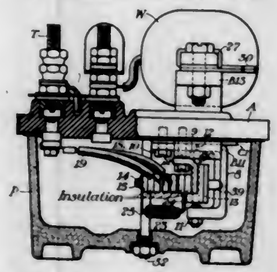
1. A radio receiving system comprising a main carrier wave receiver network, an energizing source for the various tube circuits of said main receiver, a control network including at least a carrier wave detector, at least one circuit in the detector output circuit which is resonated to a predetermined sub-audible frequency, means responsive to currents of said sub-audible frequency, for electrically connecting said energizing source to the tube circuits of said main receiver, and means for impressing upon said control network and main receiver modulated carrier waves including a modulation frequency equal to said sub-audible frequency.

2,162,902
METHOD OF CONNECTING DRIVING ELEMENTS AND THE ARTICLE PRODUCED THEREBY
Hale D. Adams, Galesburg, Ill.
Application September 25, 1937, Serial No. 165,690
4 Claims. (Cl. 29—148)



1. In a method of connecting in balanced relation separate individually balanced rotatable elements, one of the elements having openings therethrough grouped about the axial center of said element, and a companion element having extensions to engage in the openings and grouped about the axial center of said companion element, said companion element having one shoulder between said extensions on the axial side thereof and a second shoulder on the outer side of said extensions, the method which includes abutting the elements one on the other and with a face of the element having the openings abutting both of said shoulders and with the extensions projecting through and extending from the openings beyond a surface of the element having said openings, applying a tool to the two elements to center them and to align their axes of rotation, and fixing the elements relatively by riveting the extensions and expanding them within the openings and forcing their extremities snugly upon the member having the openings while maintaining the centered relation of the elements.

2,162,903
ELECTRICAL RELAY
Norman F. Agnew, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 19, 1936, Serial No. 96,831
6 Claims. (Cl. 200—87)



4. In a relay having an electromagnet provided

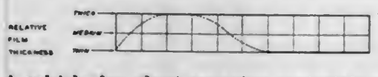
with a pair of pole pieces in spaced relation and formed with pole piece extensions and having an armature pivotally mounted between the pole pieces for magnetic attraction between the opposite faces of its two end portions and pole faces formed on said pole piece extensions and which armature is spring biased away from the pole faces to a position of a predetermined air gap the combination comprising, an insulated actuating member secured to the back of the armature on its end portion adjacent a first one of the pole piece extensions, a series of insulation strips secured to the second one of the pole piece extensions on its surface opposite its pole face, two flexible contact fingers mounted in said insulation strips spaced apart and having their outer ends adjacent the end portion of the armature carrying said actuating member, contacts secured one on each of said contact fingers adaptable to at times engage for completing a circuit connection between the contact fingers, and an extension member formed on the outer end of one of said contact fingers for operatively cooperating with said actuating member with lost motion to operate the contact mounted on that contact finger with respect to the contact mounted on the other contact finger when the air gap between the armature and the pole faces is short and operation of said contacts is effected by a snap action.

2,162,904
SPRAY OIL COMPOSITION
John Raymond Allison, Whittier, Calif., assignor, by mesne assignments, to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application December 24, 1934, Serial No. 759,069
11 Claims. (Cl. 167—43)

2. A spray oil composition resulting from combining a mineral spray oil containing a fatty acid emulsifier compound at least partly soluble in the oil and also at least partly soluble in water and a small amount of free fatty acid with a spreader and buffer in the form of a water soluble protein compound and a small excess of free alkali.

11. A spray oil emulsion especially adapted for horticultural spraying, produced by combining water with two units in the form of a soluble-oil unit containing non-phytocidal mineral spray oil, a fatty acid soap soluble both in the mineral oil and in water, and excess fatty acid soluble in the oil, and a second unit containing a water-soluble emulsifier soap, a water-soluble spreader from the class consisting of resinates, and water-soluble protein materials, free alkali and water, the product being a uniform, stable, fine emulsion which breaks readily when applied to foliage and yields a uniform, thin oil film free from toxic materials, the added non-oil constituents largely passing off in the water.

2,162,905
AQUEOUS VEHICLE FOR PLANT SPRAYING MATERIALS
John R. Allison, Whittier, Calif.
Application July 10, 1936, Serial No. 89,979
8 Claims. (Cl. 167—42)

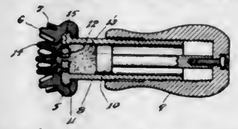


1. A vehicle for plant spraying materials comprising albumin and an alkali resinate in aqueous solution.

2,162,906
AQUEOUS VEHICLE HAVING EMULSIFYING PROPERTIES
John R. Allison, Whittier, Calif.
No Drawing. Application July 10, 1936, Serial No. 89,980
6 Claims. (Cl. 167—42)

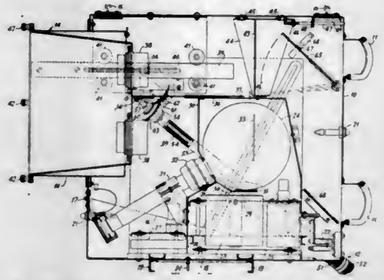
1. A vehicle for plant spraying materials comprising albumin, an alkali resinate, and an alkali oleate.

2,162,907
FOUNTAIN BRUSH
Frank J. Bambach, West Hartford, Conn.
Application July 21, 1936, Serial No. 91,689
3 Claims. (Cl. 15—137)



1. In a device of the character described, the combination of a holder comprising a cylinder having a perforated wall in the end thereof, a flange surrounding said end, a brush head of flexible material adapted to be attached to said cylinder by means of said flange, a plurality of hollow bristles in said brush head having self-closing slits directly in the ends thereof; the said head being spaced from the said perforated wall to provide communication between the said cylinder and bristles through the perforations and a handle portion operable to cause material to be forced out of said cylinder into said bristles.

2,162,908
TELEVISION CAMERA APPARATUS
Alda V. Bedford, Collingswood, and Knut J. Magnusson, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 5, 1936, Serial No. 109,391
17 Claims. (Cl. 178—6.8)



1. A camera comprising a light tight housing, a pair of co-planar optical systems supported by said housing to admit light therein along selected optical paths said optical systems having substantially the same focal length, a light responsive screen positioned within the housing to receive the light from one of the optical systems, a viewing screen positioned within the housing co-planarly with respect to said light responsive screen to receive the light from the second of said optical systems, means to adjust the position of the co-planar optical systems simultaneously with respect to said screens, and a plurality of viewing windows formed as a part of the housing wall for permitting the viewing of the image upon the viewing screen.

2,162,909

APPARATUS FOR RECOVERING METALS AND OTHER SUBSTANCES FROM AQUEOUS LIQUIDS

Emmett L. Brinker and Harvey J. Gray, Los Angeles, Calif., assignors, by direct and mesne assignments, of thirty per cent to A. W. Knight, South Pasadena, Calif.

Application September 17, 1935, Serial No. 40,904
5 Claims. (Cl. 204—5)



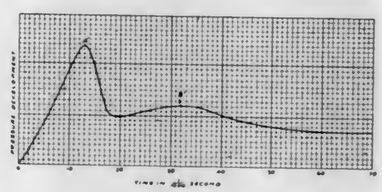
1. An apparatus for recovering finely dispersed substances from aqueous liquids comprising: a horizontally elongated extraction chamber provided with two spaced side walls, a bottom wall, liquid inlet means at one end and liquid outlet means at the other end; two anode supports disposed within said chamber adjacent the respective side walls and having their inner edges spaced from one another; a plurality of vertically extending anodes removably supported on each of said anode supports and extending beneath said supports, the anodes corresponding to each support being spaced from one another horizontally in a row, and being each disposed transversely opposite and spaced from an anode in the other row; cover means removably supported on said anode supports and substantially covering the space therebetween; a plurality of vertically extending cathodes removably supported on said cover means and extending therebeneath substantially midway between and transversely alined with and spaced from the respective oppositely disposed anodes; a plurality of cup-shaped mercury receptacles disposed within said chamber adjacent the bottom wall, surrounding the lower ends of the respective cathodes; and a body of liquid mercury in each of said receptacles in contact with the lower end portion of a corresponding cathode.

2,162,910

EXPLOSIVE

Laud S. Byers, Glendale, Calif., assignor to Molex Explosives, Ltd., Manila, P. I., a corporation of China

Application November 15, 1937, Serial No. 174,695
8 Claims. (Cl. 52—1)



1. In an explosive composition of the character described, the combination of a powdered readily oxidizable metal with finely shredded asbestos.

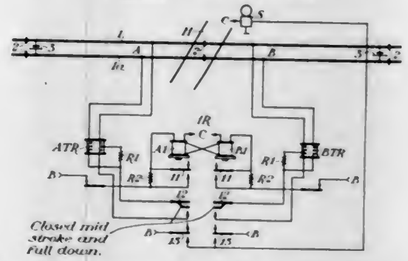
8. In an explosive composition, a brisance controlling material comprising ground baked cork.

2,162,911

CONTROL CIRCUIT FOR ELECTRICAL RELAYS

Paul H. Crago, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Original application July 30, 1935, Serial No. 33,839, now Patent No. 2,056,712, dated October 6, 1936. Divided and this application August 29, 1936, Serial No. 98,603
7 Claims. (Cl. 175—320)



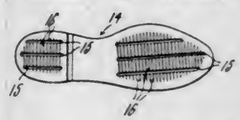
4. In combination with an interlocking relay provided with two windings and two armatures one armature for each winding, two resistors, a pick-up circuit for each winding, said pick-up circuits each including a current source and a different one of said resistors and each being effective to create a predetermined energization of the associated winding, and means associated with each pick-up circuit and including a contact closed only in the fully released position of the armature of the associated winding for shunting the resistor of that pick-up circuit to increase the energization of the winding above said predetermined energization.

2,162,912

RUBBER SOLE

Bates B. Craver, Waterbury, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Original application June 13, 1936, Serial No. 85,072. Divided and this application August 26, 1937, Serial No. 161,007
1 Claim. (Cl. 36—59)



In a shoe, an outsole of elastic cushion rubber having a tread surface provided with a multiplicity of grooves extending in one direction and a multiplicity of slits extending generally transversely of said grooves and thereby forming a plurality of tread sections between said grooves and slits, the walls of said slits being normally in contact when the outsole is at rest, said slits extending inwardly but partially to leave an uncut base integral with the sections, and said slits being of such a spacing and depth as to enable the tread sections to flex on the uncut base of the outsole to an extent to tilt up and expose the corners of the sections between the tread surfaces of the sections and the walls of the slits when the foot wearing the shoe and applying weight on the tread surface tends to slip upon some desired supporting surface with which the tread surface is in contact.

2,162,913

PROCESS OF HYDRATING OLEFINS IN THE PRESENCE OF HETEROPOLY COMPOUNDS

James F. Eversole and Charles W. Rehm, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application December 24, 1935, Serial No. 56,082
29 Claims. (Cl. 260—641)

16. Catalytic hydration process for the production of alcohols and ethers by the hydration of olefins, according to which a catalyst is used essentially comprising a dilute solution of a heteropoly compound.

2,162,914

PENCIL HOLDER

David C. Feather, Portland, Oreg., assignor to N. and F. Corporation, Portland, Oreg., a corporation of Oregon

Application December 11, 1937, Serial No. 179,308
4 Claims. (Cl. 120—9)



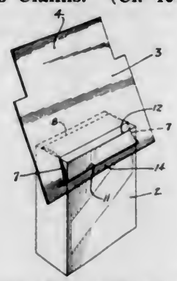
1. A pencil holder, comprising a tubular casing adapted to form a handle for a pencil, a detachable tip forming a closure for one end of said casing, an expansion sleeve mounted in said tip for frictionally engaging a pencil and holding it in writing position with its point protruding from the end of said tip, and a collar mounted within said tip over said sleeve for limiting the expansion of said sleeve.

2,162,915

ADVERTISING DISPLAY DEVICE

Clifford B. Graben, Minneapolis, Minn., assignor to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware

Application October 10, 1936, Serial No. 105,021
3 Claims. (Cl. 40—7)



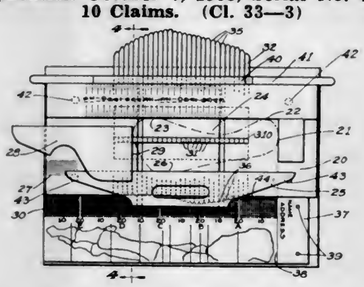
3. The combination with a carton having flat front and top walls, and opposite flat parallel side walls of a display device comprising a flat body portion of sheet material, a substantially rectangular opening in the body portion defined by transversely extending straight parallel upper and lower edges respectively adapted to engage the carton top and front walls, and being of a length as great as the distance between the opposite carton side walls, and side edges at the ends of the opening substantially shorter in length than the vertical dimension of the carton, said side edges meeting the opposite ends of the upper and lower edges in corners and being spaced from each other at intermediate points of their length a distance both less than their spacing at the upper and lower corners, and less than the transverse dimension of the carton between its opposite side walls, said side edges of the opening defining transversely narrow, oppositely projecting anchoring tabs adapted to press against the carton opposite side walls.

2,162,916

ORTHOPEDICS

Daniel F. Hyland, St. Louis, Mo.

Application October 7, 1935, Serial No. 43,817
10 Claims. (Cl. 33—3)



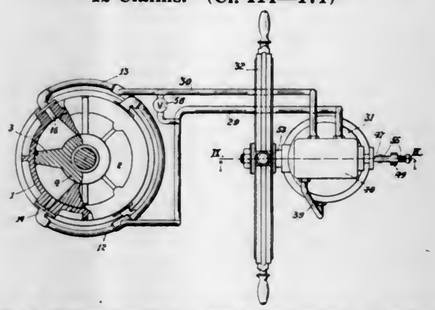
6. In an apparatus for measuring feet, a foot rest having a heel abutment, a series of feelers movable to project the same upwardly from said foot rest, and an abutment extending longitudinally of said series of feelers for positioning the foot relatively thereto.

2,162,917

LIQUID BRAKE AND CARRIER FOR SHIPS' RUDDERS

Robert MacGregor, Port-Glasgow, Scotland

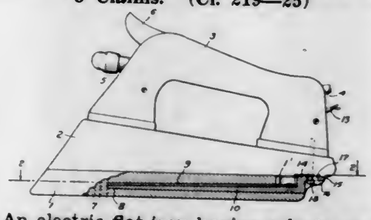
Application July 8, 1937, Serial No. 152,603
In Great Britain July 9, 1936
12 Claims. (Cl. 114—171)



1. A ship's-rudder carrier including rudder-turning means, a pump, conduits for the passage of liquid between the carrier and pump, a manually rotatable wheel operatively connected to the pump, a displaceable valve in said conduits for directing liquid from the pump to the carrier in order to turn the rudder-turning means in a desired direction; a rotatable screwed member connected to said rotatable wheel for rotation thereby, an axially displaceable screwed member to actuate said valve, said screwed members being

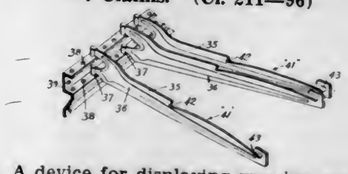
adapted to engage and disengage each other, and spring means for bringing the screwed members into engagement, the screwed members coacting to displace said valve according to the direction in which the wheel is rotated.

2,162,918
ELECTRIC FLATIRON
Stanley Marvin, Burlingame, Calif., assignor to B. E. Witkin, Oakland, Calif.
Application September 16, 1938, Serial No. 230,301
8 Claims. (Cl. 219—25)



1. An electric flat iron having a body provided with a base with a flat wedge-shaped slot formed therein open at its thick end to the exterior edge of the base, and an electric heating element of flat wedge form adapted to fit within said slot so as to be removable from the edge of the base.

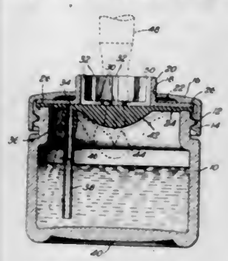
2,162,919
DEVICE FOR DISPLAYING WEARING APPAREL
Patrick Francis McAuliffe, Sydney, New South Wales, and Ralph Bernard Randell, Armadale, Victoria, Australia
Application May 23, 1938, Serial No. 209,412
In Australia October 15, 1937
7 Claims. (Cl. 211—96)



1. A device for displaying wearing apparel, on hangers having swivel hooks, comprising a support, a plurality of brackets pivoted to said support side by side about vertical fulcrums, each bracket projecting radially from its fulcrum a distance exceeding the length of said hangers and having adjacent its outer end a smooth substantially horizontal upper edge portion to slidably support the hook of one of said hangers, a stop at the outer end of said edge portion to prevent said hook from sliding off the bracket, and stop means at the inner end of said portion, said last-mentioned stop means being disposed about halfway between the outer end of said bracket and its fulcrum.

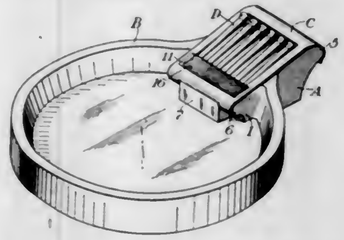
2,162,920
INKWELL
Lawrence A. Paul, New York, N. Y.
Application January 18, 1938, Serial No. 185,588
5 Claims. (Cl. 120—64)

1. An ink well comprising a container provided with a cover having an opening, a diaphragm positioned adjacent the inner face of the cover and provided with a conduit having one end located inside the container and its opposite end normally sealed by said cover, said diaphragm yielding in response to pressure of a pen point for uncovering the conduit and elevating ink



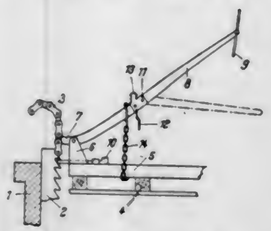
through the conduit, to deliver a pool of ink about the pen point.

2,162,921
HOLDER FOR PAPER MATCHES
Robert C. Read, New York, N. Y.
Application October 1, 1937, Serial No. 166,760
13 Claims. (Cl. 206—31)



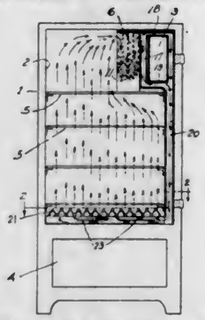
1. A holder for use in connection with a package of matches and comprising a base, a separate clip for clamping the package of matches against the base and provided with an aperture through which the matches may be removed from the package, and cooperating means on the base and the clip for removably retaining the clip in clamping position.

2,162,922
PROCESS FOR SILOING GREEN FODDER
Ferdinand Schmidt, Verden-on-the-Aller, Germany
Application December 9, 1936, Serial No. 114,945
In Germany December 17, 1935
2 Claims. (Cl. 99—8)



1. The process for siloing fodder which consists in subjecting the fodder within the silo to a mechanical pressure of at least 0.15 kg./cm.² over atmospheric pressure, to produce an overflow of sap sufficient to cover said fodder, and keeping the fodder covered with said sap.

2,162,923
REFRIGERATOR AIR CIRCULATING AND PURIFYING MEANS
Herbert H. Short, Fort Collins, Colo.
Application March 5, 1938, Serial No. 194,189
9 Claims. (Cl. 62—89)

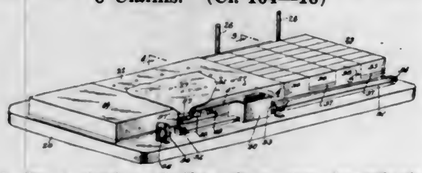


1. In a refrigerator structure of the type having a food chamber and a refrigerating unit in the upper part of the chamber, means forming an air duct across a side of the refrigerating unit, an air duct extending vertically through the food chamber at one side thereof for connection at its upper end with said first duct, means in the lower part of the food chamber for receiving air from the lower end of the second mentioned duct and distributing it over and discharging it upwardly throughout the area of said chamber, and means at the top of said chamber for guiding air into the first mentioned duct.

2,162,924
COMPOSITION AND METHOD OF MAKING SAME
Donald H. Spitzli, Arlington, and Reeves L. Kennedy, Plainfield, N. J., assignors to Congoleum-Nairn Inc., a corporation of New York
No Drawing. Application May 19, 1937, Serial No. 143,516
19 Claims. (Cl. 106—23)

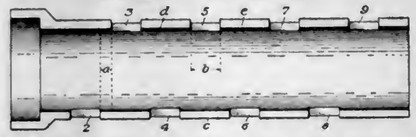
9. In the preparation of a composition suitable for linoleum or the like, the steps comprising mixing chlorinated rubber with a drying or semi-drying oil material containing less than about 30% of coagulated constituents and subjecting the mixture to heat and agitation to homogenize said materials until at least a major proportion of the chlorinated rubber is dissolved in fluid constituents of the oil and effect an increase in the coagulated constituents of the oil material to greater than about 38%.

2,162,925
PROCESS FOR MAKING ELECTRIC CONDENSERS
Felix Weiss, Plainfield, N. J., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application January 22, 1938, Serial No. 186,339
8 Claims. (Cl. 164—18)



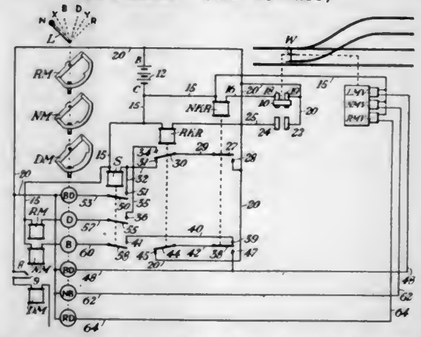
1. In a device of the character described, a punching die unit for punching a plurality of small holes in a sheet at the corners of a plurality of elements into which said sheet is to be sub-divided, a cutting die unit for cutting said sheet along lines connecting the holes punched therein, a movable support for said sheet, a guide for said support, and stop means for said support to position said sheet in the proper relative positions in said punching and cutting units.

2,162,926
DRAINAGE TILE
Frank S. Wuelker, St. Louis, Mo., assignor to Laclede-Christy Clay Products Company, a corporation of Missouri
Application August 23, 1938, Serial No. 226,282
1 Claim. (Cl. 61—11)



A drainage tile for a filter consisting of a split pipe with notched edges, the notches upon the opposite edges being arranged in staggered succession, and the length of each notch being less than the centre to centre interval between a notch on one edge and the next succeeding notch on the other, whereby portions of the vault afforded by the tile when in service extend between the notches, in continuity from the supporting floor on one side to the supporting floor on the other.

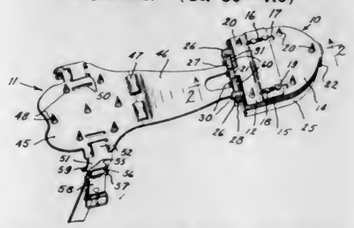
2,162,927
SWITCH CONTROL AND INDICATION SYSTEM
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 26, 1938, Serial No. 242,535
16 Claims. (Cl. 246—135)



1. In combination, a railway track switch, a motor for moving said switch between a normal and a reverse position, a normal and a reverse indication relay, a lever movable between a normal and a reverse position, said lever also having a normal indication position in which it effects operation of the motor to move the switch to the normal position and having a reverse indication position in which it effects operation of the motor to move the switch to the reverse position, a member movable in accordance with movement of the switch, said member being operable when and only when the switch is in the normal position to establish a circuit for energizing the nor-

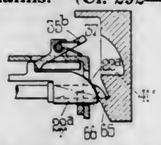
mal indication relay and being operable when and only when the switch is in the reverse position to establish a circuit for energizing the reverse indication relay, a stick relay, a pick-up circuit for said stick relay which is complete when and only when both of the indication relays are deenergized, a stick circuit for said stick relay, said stick circuit being established on picking up of the contacts of the stick relay, a normal indication magnet operable when deenergized to prevent movement of the lever to the normal position, said magnet being operable when energized to permit such lever movement, a reverse indication magnet operable when deenergized to prevent movement of the lever to the reverse position, said magnet being operable when energized to permit such lever movement, and circuits controlled by the lever, by contacts of the stick relay, and by contacts of the indication relays for energizing said indication magnets.

2,162,928
CREEPER
Eugene Arieti, Springfield, Mass.
Application January 12, 1938, Serial No. 184,583
7 Claims. (Cl. 36—7.6)



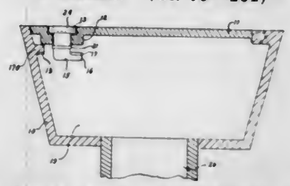
1. A device of the character described which comprises a band adapted to be semi-permanently secured around the heel of a boot, a heel plate and a sole plate each releasably connected to the breast portion of said band, means for releasably securing the rear end of the heel plate to the boot and means for releasably securing the forward end of the sole plate to the boot.

2,162,929
DOOR LOCK
Fullerton George Gordon Armstrong, Beverley, East Yorkshire, England
Application February 3, 1937, Serial No. 123,924
In Great Britain February 28, 1936
2 Claims. (Cl. 292—335)



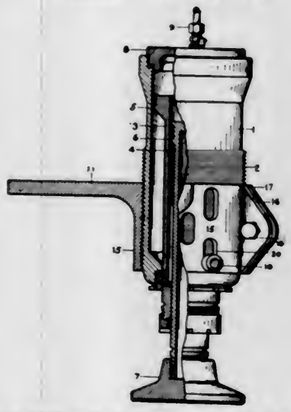
1. In a lock for doors, pivotally mounted for angular displacement relatively to door frames the provision of a bolt, resilient means urging said bolt towards its projected position, a trip member, a manually operated handle for retracting said bolt against said resilient means, resilient means urging said trip member into engagement with said bolt to interrupt the movement of said bolt from its retracted to its projected position until automatic release of said trip member is effected during final closing movement of said door, and a safety catch member slidably mounted on said bolt to project therefrom for engagement by said frame during retention of said belt by said trip member when said door approaches the plane of said frame prior to locking, to prevent withdrawal of said door relatively to said frame except on operation of said handle.

2,162,930
LOCKING MEANS FOR COVERS FOR WATER BOXES
Thomas E. Bart, Cincinnati, Ohio, assignor to The Murdock Manufacturing & Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application July 16, 1937, Serial No. 154,112
5 Claims. (Cl. 70—161)



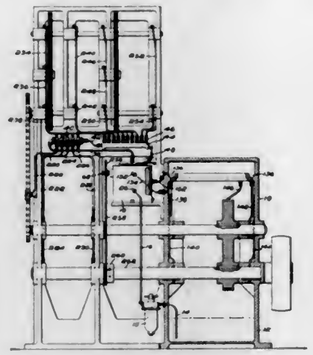
4. In a device of the class described, a housing lid comprising a hinge and an apertured depending boss at opposite sides thereof, the aperture of the boss comprising a lower keyhole-shaped portion and an enlarged upper circular recess in registering relationship, a latch member rotatable in said aperture and comprising a shaft, a laterally extending lug on one end of the shaft insertable through the keyhole portion of the lid aperture, a circular head on the other end of the shaft and closely fitting the circular upper recess of the lid to preclude the insertion of prying instruments therebetween, said head having a non-circular key receiving recess with straight-sided walls angularly disposed out of parallelism.

2,162,931
LIFTING JACK
David J. Bissell, Spokane, Wash.
Application August 16, 1935, Serial No. 36,535
5 Claims. (Cl. 254—86)



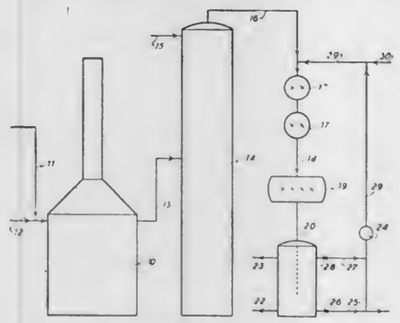
1. The combination in a portable lifting jack having a supporting base and a movable jack-cylinder having exterior threads, and means for lifting the cylinder, of a rotatively adjustable bracket movable longitudinally of the cylinder and comprising a split bushing threaded on the cylinder and means for clamping the bushing in place, and a bracket arm rigid with the bushing.

2,162,932
LUBRICATION APPARATUS
Frederick C. Blanchard, Brookline, Mass.
Application January 18, 1937, Serial No. 121,071
20 Claims. (Cl. 184—7)



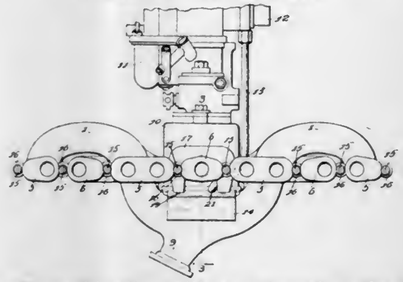
1. Lubrication apparatus comprising, in combination, first and second lubrication systems, a reservoir common to both systems and to which oil from both returns, a pump drawing oil from said reservoir and supplying oil to the first system, means to cause feeding and non-feeding periods in the first system, and means to cause oil to be taken from the first system during said non-feeding periods and supplied to the other.

2,162,933
METHOD OF PROTECTING CONDENSER TUBES AND THE LIKE FROM CORROSION OR SALT DEPOSITION
John C. Bolinger, West Hollywood, Wayne A. Howard, Whittier, and Park Woolley, Huntington Park, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 23, 1937, Serial No. 160,476
3 Claims. (Cl. 196—93)



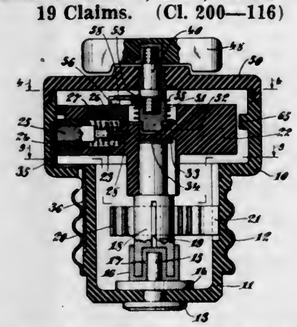
1. In an oil distillation process which includes the injection of ammonia into the oil distillation system, the method of preventing corrosion of equipment for the indirect cooling of oil vapors which comprises: injecting liquid water into conductors conveying said vapors at a point in the system upstream of the point of entry of said vapors into said equipment but within the zone wherein at least a substantial portion of said water will remain liquid.

2,162,934
STOVE DEVICE FOR AUTOMATIC CHOKE CARBURETORS
Morris C. Brown, Detroit, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application June 23, 1938, Serial No. 215,428
7 Claims. (Cl. 123—119)



1. In combination with an internal combustion engine having a thermostatic control, an element forming a heater chamber with a normally hot portion of the engine, means for heating said control from said chamber, and a resilient holding member secured to a part of the engine spaced from said hot portion and extending to said element for securing the same in position.

2,162,935
CIRCUIT BREAKER
James H. Burnside, 2d, New York, N. Y., assignor, by mesne assignments, to Circuit Breakers, Inc., New York, N. Y., a corporation of New York
Application October 9, 1936, Serial No. 104,895
19 Claims. (Cl. 200—116)



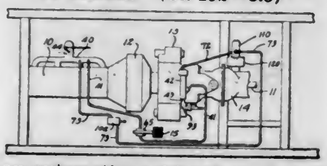
1. A circuit breaker comprising stationary and movable contacts, means to urge the movable contact normally into an open position, bi-metal controlled means to hold the movable contact in closed position, actuating means to move the movable contact from an open circuit position, means to render the actuating means inoperative, and means to subsequently close the contacts by the actuating means.

2,162,936
PROCESS OF RECOVERING GOLD FROM SOLUTIONS
Harry Burrell, Bloomfield, N. J., assignor to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application March 23, 1937, Serial No. 132,542
18 Claims. (Cl. 75—108)

1. The process of removing gold from solutions

comprising suspending a powdered acid-produced polyhydric phenol resin which is insoluble in water, in a gold-containing solution, allowing the resin to remain in contact with the solution until the gold is sorbed, and removing the suspended powder containing sorbed gold.

2,162,937
AUTOMOTIVE VEHICLE TRANSMISSION
Philip M. Carter, White Plains, and Louis A. Larsen, Brooklyn, N. Y., assignors to Vaco Products, Inc., a corporation of Delaware
Application August 22, 1935, Serial No. 37,267
15 Claims. (Cl. 192—3.5)

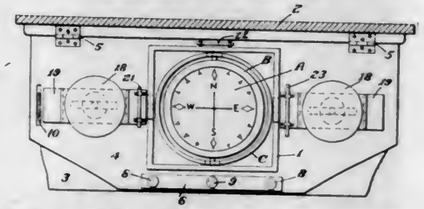


2. In an automotive vehicle including the combination of a selective gear transmission, a source of fluid pressure, fluid pressure operated means for selectively shifting the transmission gears, a selector valve controlling the application of fluid pressure to said means, a fluid pressure operated servomotor for moving said valve, means responsive to movement of the vehicle for controlling the application of power to the servomotor, and means for interrupting the full application of fluid pressure from the source.

2,162,938
GRANULAR ALUMINUM AND METHOD OF MAKING THE SAME
George F. Comstock and Viatcheslav V. Efimoff, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 10, 1936, Serial No. 73,640
25 Claims. (Cl. 75—27)

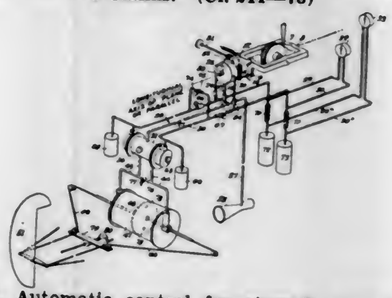
1. A granular metallurgical reducing agent consisting of finely-divided aluminum particles coated with cryolite.

2,162,939
APPARATUS FOR MAINTAINING COMPASS ACCURACY IN MARINE INSTALLATIONS
Louis A. Crockett, Rockland, Maine
Application January 17, 1938, Serial No. 185,304
3 Claims. (Cl. 33—225)



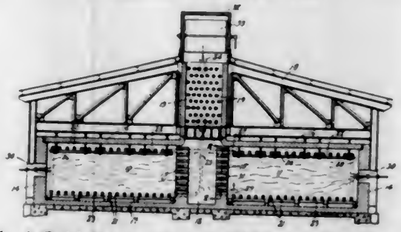
1. In a ship's compass installation, a magnetic compass, a support for said compass, means universally supporting said compass upon said support, magnetic means carried by said support to correct the magnetic influence of the ship on said compass, a hinge connecting one end of said support to a desired part of the ship for movement about an athwartship axis only and holding said support against lateral inclination relative to said ship, and adjustable means connecting the opposite end of said support to said desired part of the ship to pivot said support about said axis on changes in trim to prevent changes in influence of said magnetic means upon said compass.

2,162,940
DIRECTIONAL INDICATION AND CONTROL
Luis de Florez, New York, N. Y., assignor to National Aviation Research Corporation, New York, N. Y., a corporation of Delaware
Application August 28, 1936, Serial No. 98,352
8 Claims. (Cl. 244—78)



1. Automatic control for aircraft comprising a turn sensitive device, fluid pressure creating means, directional controlling means, differential fluid pressure mechanism for operating said directional controlling means, valve means operable by said turn sensitive means for differentially connecting said differential mechanism with said fluid pressure creating means, means restricting the flow between said first means and said mechanism, fluid accumulator tanks operatively connected between said first means and said mechanism.

2,162,941
FLUID HEATER
Courtlandt F. Denney, Westfield, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application May 3, 1935, Serial No. 19,635
3 Claims. (Cl. 122—356)



1. A fluid heater having a fire chamber, a bank of fluid heating tubes adjacent the roof and floor of the fire chamber, one or more burners disposed in a wall of the fire chamber substantially equidistantly from the roof and floor tube bank, said tube banks being spaced apart a distance no greater than necessary to prevent flame impingement on the tube banks, and a wall oppositely disposed with respect to the burner wall and having a plurality of gas passages therein proportioned with respect to flow area to provide substantially equal distribution of the gases in their flow through the chamber.

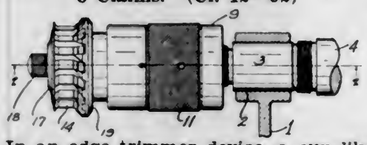
2,162,942
PROCESS FOR THE PREPARATION OF MAGNESIUM BY THE ELECTROLYSIS OF ITS FUSED CHLORIDE
Charles de Rohden, Neuilly-sur-Seine, France
Application July 14, 1936, Serial No. 90,579
In Germany July 20, 1935
2 Claims. (Cl. 204—19)

2. A process of continuously producing magnesium by electrolysis of magnesium chloride in a fused electrolyte containing magnesium chloride and a chloride of a more electro-positive metal than magnesium, and in which the magnesium chloride is not in excess of 30% of the entire electrolyte, which comprises flowing said fused electrolyte in contact with a plurality of pairs of electrodes, while maintaining the level of the bath in contact with each particular pair of electrodes substantially constant, maintaining on each pair of electrodes a difference of potential sufficient to insure electrolysis of magnesium chloride with the production of magnesium, maintaining a continuous flow of said fused electrolyte in contact with said pairs of electrodes until the content of magnesium chloride therein has been substantially reduced but not eliminated, adding a quantity of hydrated magnesium chloride to said electrolyte, allowing sedimentation of magnesium oxide from said mixture and reintroducing the so-clarified and reinforced electrolyte to said treatment.

2,162,943
FELT MAKING PROCESS
Pierre Drewsen, Sandusky, Ohio, assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 16, 1935, Serial No. 50,153
2 Claims. (Cl. 92—3)

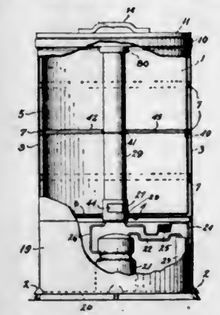
1. A process of producing felt which comprises cooking straw in a caustic soda solution containing about 10% of caustic soda based on the weight of the straw maintained at a temperature of about 90° to 100° C. to produce straw fibers imparting both hardness and absorptive characteristics to a sheet in which they are incorporated, mixing said straw fibers with strength fibers produced from wood and forming the resultant mixture of fibers into a felt sheet consisting entirely of said straw and strength fibers.

2,162,944
EDGE TRIMMER
Ernest Dunford, St. Louis, Mo., assignor to Landis Machine Company, St. Louis, Mo., a corporation of Missouri
Application February 11, 1938, Serial No. 189,939
8 Claims. (Cl. 12—92)



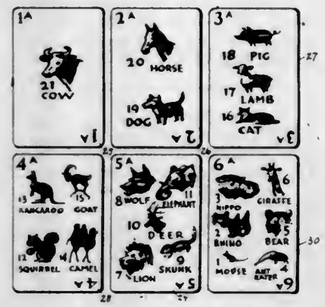
1. In an edge trimmer device, a cup-like casing with its end wall apertured and threaded interiorly for engagement with a shaft on which the device is to be mounted, the device including a sleeve receivable in said casing with one end disposed to abut the inner face of said casing end wall and projecting outwardly beyond the open end of said casing, a cutter adapted to be mounted on said shaft with a rear face opposing the outer end of said sleeve, and a retainer structure opposing the outer face of said cutter and adapted for threaded engagement with said shaft.

2,162,945
MECHANICAL REFRIGERATOR
Gordon M. Evans, Detroit, Mich.
Application May 11, 1938, Serial No. 207,209
11 Claims. (Cl. 62—116)



1. A refrigerator comprising, a receptacle having closed side walls and a closed bottom and which constitutes a refrigerated compartment for material, a closure member for the top of the receptacle, a refrigerant evaporator mounted substantially centrally of the bottom of the receptacle and extending upwardly into a receptacle and means extending through the bottom of the receptacle constituting a support for the evaporator and having a passage therethrough for refrigerant.

2,162,946
PLAYING CARD
Wilbert Garrison, New York, N. Y.
Application August 5, 1937, Serial No. 157,455
7 Claims. (Cl. 273—152)



1. A pack of playing cards, comprising a plurality of sets of cards containing the same number of cards in each set, the number assigned to each of the cards contained in each set being indicated on the separate cards thereof in numerical sequence throughout the set beginning with number 1, the highest assigned number indicating how many cards are in the set, and each set bearing additional numerical indicia in their fields in sequence beginning with number 1 and progressing numerically through the set inversely to the progression of the said assigned numbers on the cards of the set, the card of each set with the highest assigned number bearing number 1 of said additional inversely progressing numerical indicia and other of such inversely progressing numerical indicia to correspond in quantity to that indicated by the number assigned to said card, and so on through the cards of

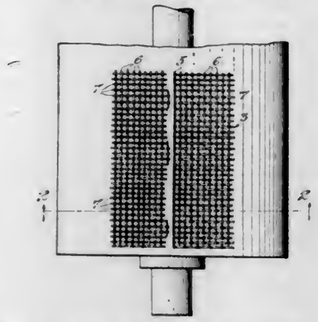
each set so that each number-assigned card of each set bears such inversely progressing numerical indicia in a quantity equaling that indicated by the number assigned to the particular card of the set, whereby the card bearing the lowest assigned number will bear the highest one of the inversely progressing numerical indicia.

2,162,947

METHOD OF COVERING A CYLINDER ROLL

Charley L. Gleeson, North Arlington, N. J.

Application August 30, 1937, Serial No. 161,631
2 Claims. (Cl. 245—10)



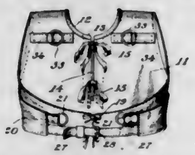
2. The method of covering a cylinder roll, comprising a placing a wire cloth having a solder coated crinkly warp wire woven therein adjacent one edge thereof upon a cylindrical frame so that the warp wires of the cloth extend longitudinally of the frame, heating said edge having the solder coated wire to melt the solder to cause the wires of said edge to be firmly secured to each other, securing the wires of the adjacent edge of said wire cloth by means of solder, and then applying heat to secure the two edges of the wire cloth together to form a seam and provide a uniform cylinder of wire cloth.

2,162,948

CHILD'S HARNESS WAIST

Eunice I. Gosselin, Raymond, N. H.

Application March 8, 1939, Serial No. 260,665
1 Claim. (Cl. 2—111)



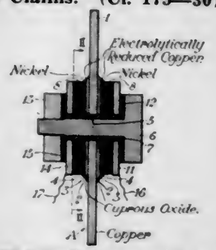
A child's harness waist comprising front and back portions of similar contour adapted to extend over the shoulders and from the shoulders to the waist of a child, said front and back portions being provided at their lower edges with extensions adapted to encircle the body of the child to secure the waist to the child, a reinforcing strip of material secured to the lower edge of the front portion, tether receiving eyes secured to the strip adapted to extend from the back of the waist, said front and back portions being cut away to form a neck opening, the back portion being slit for a short distance from said neck opening, means detachably securing said slit closed, and eyes adapted to receive reins secured to said back portion at said slit portion.

2,162,949

PROTECTIVE DEVICE FOR ELECTRIC CIRCUITS

Lars O. Grondahl, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application October 13, 1938, Serial No. 234,812
29 Claims. (Cl. 175—30)



1. A lightning arrester comprising an electrode unit consisting of a layer of a semiconductive substance disposed between and intimately associated with two metallic layers one of which is relatively thin in such manner that said unit possesses the characteristic of offering a relatively high resistance in one direction for potentials below a critical potential and a relatively low resistance for potentials above said critical potential, and means for making contact with said relatively thin layer in such manner that vapors produced by the current which flows when a potential in excess of said critical potential is impressed across said unit in said one direction can escape freely, whereby the unit will not become short-circuited due to a high potential discharge.

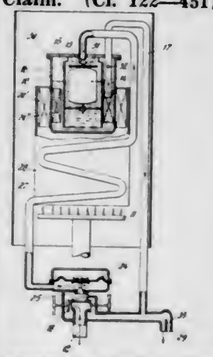
17. A lightning arrester comprising a copper body having a layer of copper oxide formed thereon, a layer of electrolytically reduced copper in intimate contact with the outer surface of said oxide layer, a layer of electroplated nickel in intimate contact with said reduced copper layer, and a mass of metal of such a nature that it is pervious to vapors formed by a lightning discharge puncturing said copper and nickel layers in intimate contact with said nickel layer to establish an electrical connection therewith.

2,162,950

HEATER FOR GENERATING BOILING WATER

Georg Hegwein, Dessau, Germany, assignor to Junkers & Co. G. m. b. H., Dessau, Germany

Application August 11, 1936, Serial No. 95,335
In Germany August 15, 1935
1 Claim. (Cl. 122—451)



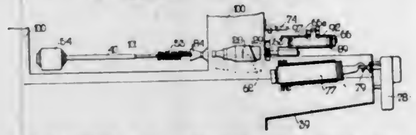
A heater for generating boiling water, comprising a boiler, a cold water feed pipe leading to said boiler, a float-valve controlling the flow of cold water through said feed pipe for maintaining a constant water level in said boiler, a continuously open discharge conduit through which the boiling water is expelled by the pressure of the steam generated within the boiler, and a water pressure-regulator arranged in front of said float-valve for maintaining a constant water-pressure in the feed pipe.

2,162,951

APPARATUS FOR CLEANING BOTTLES, JARS, OR THE LIKE CONTAINERS

Thomas Edward Hill and Nealis Claremont Harrison, Kingston-upon-Hull, England

Application September 28, 1936, Serial No. 103,008
In Great Britain September 28, 1935
6 Claims. (Cl. 15—61)



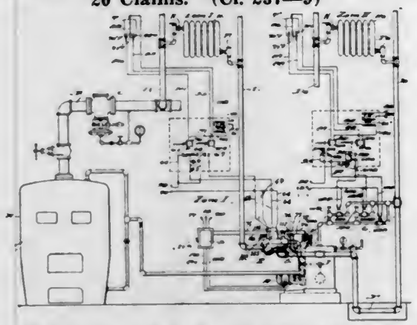
1. Apparatus for cleaning containers such as jars and milk churns comprising a rotatable brush, means for delivering a container to a position co-axial with said rotatable brush, a base brush, means for positioning said base brush against the base of said container, external brushing means, means for rotating said external brushing means, and means for displacing said rotatable brush longitudinally in a substantially horizontal direction into said container for conveying said container while contacted by said base brush to said external brushing means.

2,162,952

CONTROL MECHANISM FOR STEAM HEATING SYSTEMS

Irving C. Jennings, South Norwalk, Conn.

Application July 6, 1936, Serial No. 89,230
20 Claims. (Cl. 237—9)



1. The combination in a vacuum steam heating system for heating a plurality of zones, and having a pumping mechanism for removing the air or gas from the system and creating a vacuum in the return side thereof, said mechanism being common to said zones, of control mechanism for said zones, comprising a variable vacuum relief mechanism, including at least one relief valve for each zone effective to maintain the vacuum in the system at different degrees, and thermostatic means controlled by zone temperatures for controlling said mechanism so that different degrees of vacuum may be created in the returns from each zone independently of each other to accommodate the respective zone temperatures.

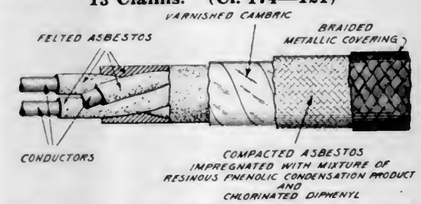
11. A vacuum steam heating system comprising radiation means having supply and return lines, pumping mechanism for removing air or gas from the radiation means and creating a vacuum in the return side of the system, means for applying said vacuum to the return lines from the radiation means to control the amount of steam, and means for controlling the degree of vacuum maintained in the returns including a reducing valve and additional, cooperating reducing valve means interposed between the pumping mechanism and the radiation means in the returns, and thermostatically operated control means for said reducing valves.

2,162,953

INSULATED ELECTRICAL CONDUCTOR

Robert B. Lattin, Cheshire, Conn., assignor to Rockbestos Products Corporation, a corporation of Massachusetts

Application February 20, 1936, Serial No. 64,814
13 Claims. (Cl. 174—121)



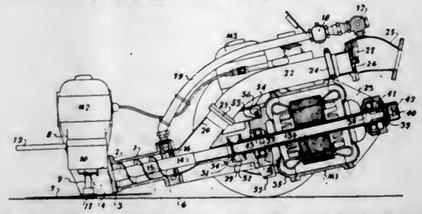
1. An insulated electrical conductor comprising a metallic conductor insulated by a surrounding layer of asbestos impregnated with a mixture consisting of a resinous phenolic condensation product and a chlorinated diphenyl, said impregnated asbestos being flexible and highly resistant to flame and penetration by water.

2,162,954

CONVEYING APPARATUS

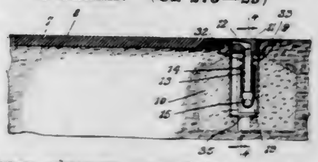
Herbert S. Lenhart, Allentown, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware

Application July 31, 1936, Serial No. 93,555
9 Claims. (Cl. 180—17)



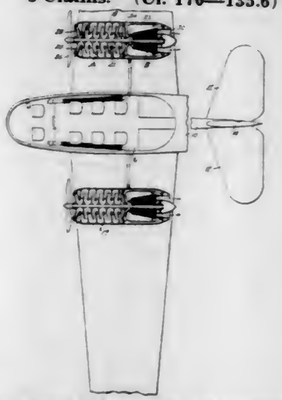
1. In a portable apparatus for receiving pulverulent material and conveying it through a pipe line, the improvement which comprises the combination of a pair of supporting wheels, a yoke adapted to be secured to an element of the apparatus, a gear case at each end of the yoke, each case having an axle supported for rotation in spaced bearings therein and extending beyond a wall thereof, the outer end of each axle being secured to a supporting wheel, similar means for driving each axle independently of the other in either direction, each including a reversible, alternating current electric motor, a reversing starter for the motor, a worm and a worm gear driven thereby, the worm being secured to the axle between the bearings.

2,162,955
BASE CLEANER
Moses Liebmann, New York, N. Y.
Application November 1, 1938, Serial No. 238,185
9 Claims. (Cl. 273—25)



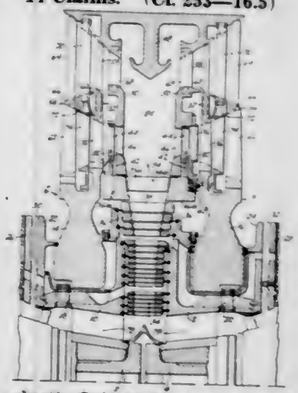
1. A base cleaner comprising an air nozzle mounted in the ground near the base to be cleaned, said nozzle having an air blast opening normally maintained below the level of the upper face of the base and directed toward the base and adapted to be raised to bring said opening adjacent the top of the base, and a source of air under pressure connected to the nozzle and adapted to direct an air blast through the opening therein to cause said air blast to blow dust and dirt off the top of the base.

2,162,956
AIRCRAFT POWER PLANT
Alf Lysholm, Stockholm, Sweden, assignor to Aktiebolaget Milo, Stockholm, Sweden, a corporation of Sweden
Application February 14, 1934, Serial No. 711,088
In Germany February 16, 1933
3 Claims. (Cl. 170—135.6)



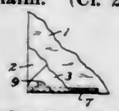
1. In an aircraft having a continuous combustion gas turbine power plant for propelling the craft, in combination, a multiple stage axial flow gas turbine having a blade system of the reaction type, a compressor for compressing air to be used in the motive fluid for the turbine, said blade system being constructed to expand said motive fluid from its admission pressure to an exhaust pressure sufficiently low to extract from the motive fluid sufficient energy to perform the work of compression and to provide additional mechanical power, structure for mounting the compressor ahead of the turbine with the outlet end of the compressor adjacent to the inlet end of the turbine and so that the general direction of flow of air through the compressor is the same as the general direction of the flow of motive fluid through the turbine, said structure including means providing for direct admission of air to the inlet end of the compressor from the forward end of the unit and providing means for the discharge of substantially all of the exhaust gas from the turbine in a substantially direct path of flow rearwardly from the turbine to the atmosphere, whereby to utilize the reactive effect of the exhaust gases to assist in the propulsion of the aircraft, and a propeller driven by said turbine and located ahead of the unit, said means for admitting air to the compressor being located in the slip stream of the propeller.

2,162,957
ELASTIC FLUID TURBINE
Alf Lysholm, Stockholm, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a corporation of Sweden
Application October 2, 1936, Serial No. 103,633
In Germany October 3, 1935
14 Claims. (Cl. 253—16.5)



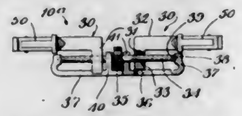
1. In an elastic fluid turbine, a radial flow blade system and an axial flow blade system for expanding motive fluid exhausted by said radial flow system, said axial flow blade system including blades providing a plurality of serially arranged stages of expansion for all of the motive fluid exhausted by said radial flow system for further expansion in the turbine and auxiliary axial flow blades providing an additional stage of expansion for a portion of said motive fluid, said auxiliary axial flow blades being arranged in the path of flow of the motive fluid to provide a preliminary stage for expanding a portion of said fluid before it is expanded in the remaining stages of axial flow blading and said auxiliary stage being mounted to have radial movement due to expansion and contraction independently of said remaining stages of axial flow blading.

2,162,958
ENVELOPE
Kenneth MacDonald, Syracuse, N. Y., assignor of one-half to Howard W. Clasen, Syracuse, N. Y.
Application July 19, 1937, Serial No. 154,481
1 Claim. (Cl. 229—86)



As a new article of manufacture, an envelope having an elongated relatively flat "Cellophane" opening member secured thereto within a fold at the bottom edge thereof and provided with means adjacent to at least one bottom corner thereof and confined to one side of the fold for rendering one end of the opening member accessible for manipulation of the opening member to rip or slit the edge of the envelope.

2,162,959
COLLAR CLASP
Louis Madison, New York, N. Y.
Application June 20, 1936, Serial No. 86,294
2 Claims. (Cl. 24—81)

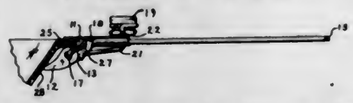


1. A collar clasp comprising a pair of similar, symmetrically disposed members, having parallel portions and outwardly extending portions, said parallel portions being formed with aligned oppositely threaded openings, a turnbuckle screw extending through said openings and having oppositely threaded end portions engaging the threads of said openings, a finger wheel fixed to the center of said screw, a member having sliding engagement with said parallel portions and having arms at the ends thereof rotatably engaging the ends of said screw, the outwardly extending portions of said members being formed with slots to receive the adjacent edges of a collar, and levers pivoted on said portions and adapted to clampingly engage collar edges inserted into said slots.

2,162,960
COLOR PRODUCING COMPOUND AND PROCESS FOR PRODUCING THE SAME
Eugene A. Markush, Jersey City, and Julius Miller, Newark, N. J., assignors to Pharma Chemical Corporation, New York, N. Y., a corporation of New York
No Drawing. Application February 4, 1937, Serial No. 124,084
9 Claims. (Cl. 260—140)

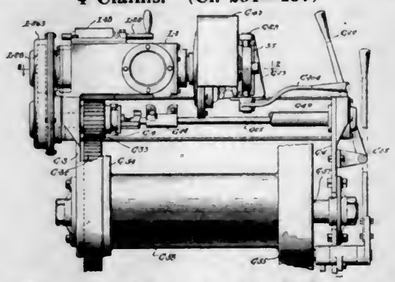
1. A compound formed by condensing a diazotized compound of the group consisting of aromatic monamines and aromatic diamines with a disulfo-dicarboxy-primary-diamine of the benzene series, the azo group entering the amido group of the disulfo-dicarboxy-primary-diamine, which compounds split up by the addition of acid into the diazo compound of the original diazotized compound and the original disulfo-dicarboxy-diamine.

2,162,961
COOKING UTENSIL HANDLE
Deo R. Mattoon, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application October 6, 1936, Serial No. 104,268
8 Claims. (Cl. 16—114)



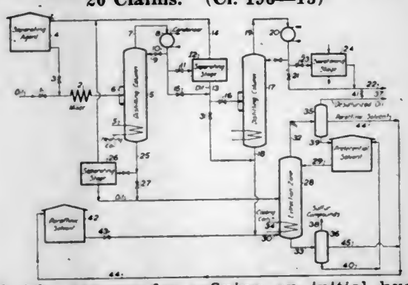
7. A handle for a vessel having a projecting lug extending laterally from a portion of its rim with a boss on the undersurface of the lug, said handle comprising a first element which at least in part covers the top surface of the lug and portions of which extend down adjacent the outer wall surface of the vessel proper, and a second element pivoted to the first element and adapted to exert a force against the boss in such direction as to draw the portions extending downwardly from said first element snugly against the sidewall surface of the vessel.

2,162,962
WINCH DRIVING GEAR ASSEMBLY
Peter J. Messer, Olean, N. Y., assignor to Luther Manufacturing Company, Inc., Olean, N. Y.
Application September 28, 1937, Serial No. 166,150
4 Claims. (Cl. 254—187)



1. The combination of a winch drum and its frame, and operating devices for the drum, all of said devices being mounted and assembled as a unit on the frame above the drum and including a drive shaft, a change speed gear, a clutch operatively connected between the shaft and the said gear, and a shaft provided with a slidable pinion operatively connected between said gear and the drum, the drive shaft being positioned with its axis at an angle to the axis of the clutch, with its inner end between the clutch and the change speed gear, and the clutch and change speed gear being assembled in axial alinement on the top of the frame.

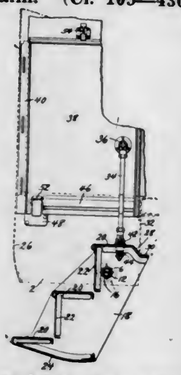
2,162,963
PROCESS FOR DESULPHURIZING MINERAL OILS
Donald S. McKittrick, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 28, 1937, Serial No. 161,456
20 Claims. (Cl. 196—13)



1. The process for refining an initial hydrocarbon fraction containing sulphur compounds and hydrocarbons of different ratios of carbon to hydrogen, which comprises the steps of separating said fraction into a first cut containing a concentrate of hydrocarbons of relatively low ratios of carbon to hydrogen and a second cut containing the remainder of the fraction, flowing said first cut through an extraction zone countercurrently to a preferential solvent for sulphur compounds under conditions causing the formation of counterflowing raffinate and extract phases, introducing the second cut into the extraction zone at an intermediate point thereof, the conditions within the extraction zone being such that the first cut washes hydrocarbons from the extract phase to produce a washed extract phase containing the solvent sulphur compounds and not more than a minor amount of the hy-

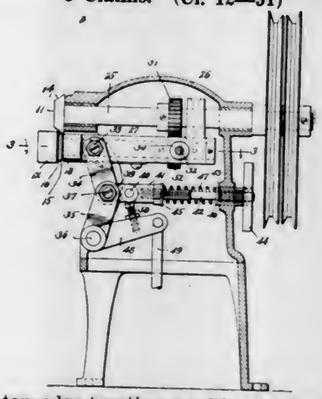
drocarbons contained in the initial fraction and withdrawing raffinate and washed extract phases from said extraction zone at spaced points.

2,162,964
FOLDING CAR STEP
Ralph G. Nichols, St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application June 5, 1936, Serial No. 83,602
1 Claim. (Cl. 105—430)



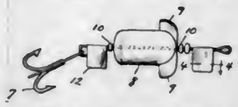
A folding step and trap door assembly for cars comprising, a flight of steps pivoted to the car for raising and lowering as a unit, resilient means tending to raise said unit, a trap door pivoted to the car for raising and lowering, resilient means tending to raise said trap door, means interconnecting said step unit and trap door for movement in unison and latch means for retaining said trap door in raised or lowered position, said resilient means being so related as to cause the step unit and trap door to assume an intermediate position upon release of said latch means.

2,162,965
TOP EDGE TREATING MACHINE
Walter P. Osgood, Malden, Mass.
Application March 1, 1937, Serial No. 128,395
8 Claims. (Cl. 12—51)



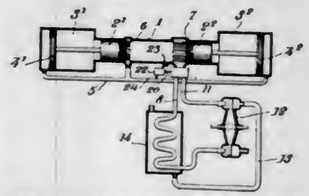
1. A top-edge treating machine having in combination, means engaging the lining adjacent the top seam, means engaging the upper adjacent the top seam, and mechanism for operating said means to feather the edge of the lining adjacent the top seam, and to bend the folded edge of the upper towards the adjacent plane of the feathered lining edge.

2,162,966
FISH LURE
Floyd Allan Ozburn, Los Angeles, Calif.
Application June 28, 1938, Serial No. 216,334
1 Claim. (Cl. 43—47)



In a fish lure, a rod-like keel member having a pair of eyelets at its opposite ends for the attachment of a line and hook thereto, respectively, a spinner rotatably mounted on said member, and a pair of front and rear fins depending from said member in the front and rear of said spinner, respectively, functioning as counter balancing weights to stabilize the lure against turning in the air or water, said fins each having a flat side face and a convex side face, the convex side faces being arranged on relatively opposite sides of the lure to maintain the latter in a straight course in the water.

2,162,967
THERMIC PLANT
Raul Pateras Pescara, Paris, France, assignor to Société d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland
Application September 7, 1935, Serial No. 39,642
In Belgium September 7, 1934
10 Claims. (Cl. 60—11)

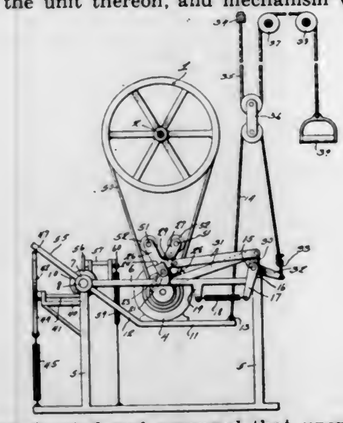


1. A plant which comprises, in combination, an internal combustion engine of the two stroke type, an air compressor arranged to be driven by said engine, a receiving machine adapted to be driven by fluid under pressure having at least two stages, means for feeding air under pressure from said compressor to said engine for scavenging purposes, means for causing the combustion gases from said engine to expand by driving one of the stages of said receiving machine, means for conveying air under pressure from said compressor to a second stage of the receiving machine, two outlet openings in said receiving machine, the first of which serves for the outlet of the combustion gases after they have expanded in the receiving machine, and the other of which serves for the outlet of the air under pressure from said second stage of the receiving machine, and means for causing the expanded combustion gases, after their expansion through said receiving machine, to give up heat to the air under pressure on its way from said compressor to said second mentioned stage of the receiving machine through said conveying means.

2,162,968
V-BELT SHIFTING MEANS FOR CONE PULLEYS
Morton F. Phelps, Little Rock, Ark.
Application December 15, 1938, Serial No. 245,969
14 Claims. (Cl. 74—242.4)

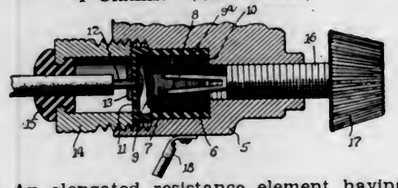
1. Mechanism for changing the engagement

of a belt with a belt cone pulley wherein the pulley is carried by a power unit and the belt connects with a driven unit, comprising a vertically oscillatable support for the power unit, means for effecting the raising of the support and the unit thereon, and mechanism which is



so constructed and arranged that upon raising the support and unit the opposite sides of the belt between the cone pulley and the driven unit will be forced apart and said support and the unit carried thereby will be shifted a predetermined distance in a direction transversely of the belt.

2,162,969
RESISTANCE ELEMENT FOR RHEOSTATS
Alexander W. Plensler, Chicago, Ill., assignor to Resistelite Corporation, Chicago, Ill., a corporation of Illinois
Application May 13, 1935, Serial No. 21,080
4 Claims. (Cl. 201—68)



1. An elongated resistance element having a longitudinally extending contact surface, said element comprising a plurality of sheets of absorbent material carrying uniformly dispersed finely divided resistance material, said sheets being disposed transversely with the edges thereof providing said contact surface and bonded together to produce a substantially solid mass in which the sheet edges form said contact surface.

2,162,970
CYCLIC SUBSTITUTED DICHLORINATED ALIPHATIC HYDROCARBONS AND PROCESSES OF PREPARING THE SAME
Anderson W. Ralston and Carl W. Christensen, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 12, 1937, Serial No. 174,266
6 Claims. (Cl. 260—612)

1. A cyclic substituted dichlorinated hydrocarbon having the formula

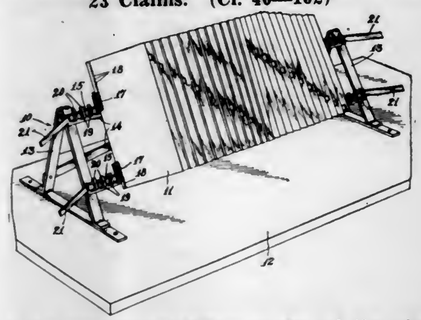


wherein R is an aryl radical and R' is an alkyl radical having at least eleven carbon atoms.

2,162,971
POLYCARBOXYLIC ACID AND PROCESS OF PREPARING THE SAME
Anderson W. Ralston, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 27, 1938, Serial No. 210,478
4 Claims. (Cl. 260—537)

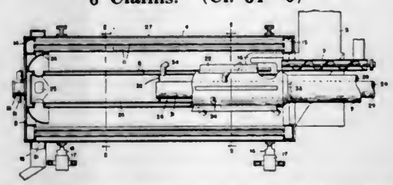
1. Aliphatic polycarboxylic acids resulting from the polymerization and hydrolysis of aliphatic nitriles, said nitriles having at least ten carbon atoms.

2,162,972
MULTIPLE-LEAF CATALOGUE OR FILE
Hurley D. Ralston and Proctor J. Gilbert, Oak Park, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application September 19, 1938, Serial No. 230,535
23 Claims. (Cl. 40—102)



1. An upright catalogue or file of the character described comprising, in combination, a plurality of groups of leaves, a leaf-supporting rack structure adapted to be mounted upon a work table or the like and including means adapted for supporting each group of leaves as a unit in generally upright forwardly projecting relation at the front of the rack structure, and means for removably connecting said group of leaves to their respective supporting means in general alinement to form a multiple-group set of leaves, said connecting means being so constructed that each group can be placed upon or removed from the supporting means as a unit and any leaf of the set can be swung substantially like the page of a book into position for the inspection of either face thereof from the front of the rack.

2,162,973
ROTARY DRIER
Harold F. Roland, Peoria, Ill., assignor to Hiram Walker & Sons Inc., Peoria, Ill.
Application July 31, 1937, Serial No. 156,761
6 Claims. (Cl. 34—6)



1. In a return current drier, the combination with a rotary shell having material feed means at one end thereof and a discharge passage at the other end, of means for introducing from

different sources separate streams of air into the drier comprising inner and outer ducts disposed axially of the shell and rotatable therewith, and means providing separate communication between each of said ducts and the interior of the drier shell, including means for directing air introduced through the inner duct through the walls of the outer duct into the shell at the discharge end thereof and additional means for directing air introduced through the outer duct through the walls of the latter into the shell at a point intermediate the feed end of the drier and the point of entry into the shell of air introduced through the inner duct.

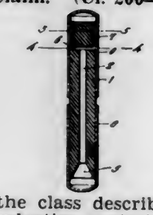
2,162,974

THERMOSTATIC CIRCUIT CLOSER

Olaf A. Sahlbom, Everett, Wash.

Application January 4, 1938, Serial No. 183,371

1 Claim. (Cl. 200—141)



A device of the class described comprising a plug of non-conductive material and having a bore therein extending from a point spaced from its upper end through the lower end, said lower end of the bore being enlarged and said plug having a transverse hole therein which communicates with the upper end of the bore and said plug having grooves in its sides which extend from the hole through the upper end of the plug, a lower cap of conducting material having a sliding fit on the lower part of the plug, and containing mercury and an upper cap of conducting material enclosing the upper portion of the plug, the adjacent ends of the caps being spaced apart.

2,162,975

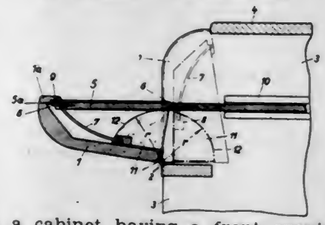
FURNITURE

Arno Schmidt, Dresden, Germany

Application April 26, 1938, Serial No. 204,428

In Germany May 31, 1937

13 Claims. (Cl. 312—186)



5. In a cabinet having a front opening, the combination of an inwardly hollowed drop flap hinged to the front of the cabinet for closing said opening, a slidable leaf in the cabinet movable outwardly through said opening in a plane above the hinge axis of the flap, means operatively coupling the flap and the leaf for moving the leaf outwardly and inwardly upon movements of the flap to open and closed positions respectively, and at least one supporting element for the leaf provided on the flap, said element affording an arcuate supporting surface making rolling contact with the leaf.

2,162,976

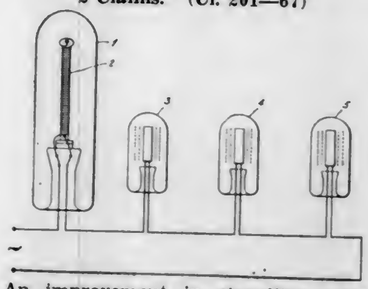
CIRCUIT AND SERIES RESISTANCE FOR INDIRECTLY HEATED CATHODES

Fritz Schröter, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 3, 1934, Serial No. 733,540

In Germany July 10, 1933

2 Claims. (Cl. 201—67)



2. An improvement in signalling apparatus and the like of the type provided with at least one electronic tube having an indirectly heated cathode and a cathode heating circuit which is provided with means for connection thereof to a source of heating current; said improvement comprising a variable resistance device connected in the heating circuit said device including a wire resistance element composed of a material having a positive temperature coefficient of resistance and provided with an outer coating of a material having good heat conducting properties, said wire being wound in the form of a helix tightly around a supporting post composed of ceramic material, means for connecting said wire resistance element in series in said heating circuit, an envelope for enclosing said wire resistance and ceramic support, said ceramic support and resistance element being proportioned with respect to each other so that the heat capacity of the entire structure delays for an appreciable period of time the full effect of the resistance in said circuit whereby an abnormal voltage is applied to the cathode heating circuit at the beginning of the heating period, said voltage dropping to a normal value at the end of said period of delay.

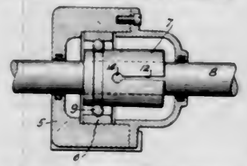
2,162,977

BEARING

Raymond R. Searles, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut

Application March 31, 1937, Serial No. 134,130

1 Claim. (Cl. 308—236)



An anti-friction bearing including a long inner and an outer bearing ring with interposed anti-friction bearing members, said inner ring having a bore therein, said bore at the region of said anti-friction bearing members being smooth and of a size to freely slide longitudinally on a shaft, said bore between said anti-friction bearing members and one end being normally of substantially

less diameter than the diameter of the shaft, said inner ring being split from said one end inwardly through said bore of substantially less diameter than the shaft to render the same radially expansible, whereby said expansible bore may be expanded and said inner ring freely slid along said shaft and when the expanding force is relieved the inherent resiliency of said inner ring will cause that part of said bore which is normally of less diameter than the shaft to forcibly engage the latter and securely hold said inner ring thereon.

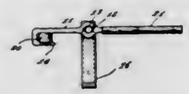
2,162,978

DEVICE AND PROCESS FOR PERFORMING CHEMICAL ANALYSES

Albert C. Seaton, Indianapolis, Ind.

Application October 9, 1937, Serial No. 168,252

4 Claims. (Cl. 23—230)



4. A device for use in performing chemical analyses of liquids comprising an elongated metallic body, means intermediate the length of said body for holding in contact therewith a strip of absorbent material projecting laterally from the body, a handle of heat-insulating material at one end of the body, and means at the other end of the body for holding a pellet of combustible material in heat-exchanging relation therewith.

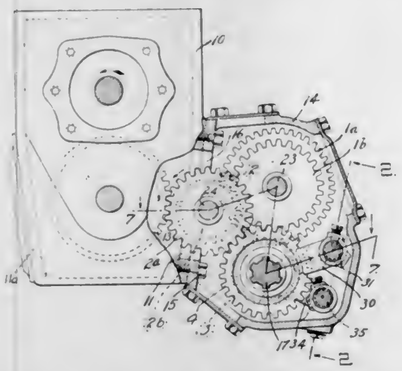
2,162,979

POWER TAKE-OFF

Howard W. Simpson, Dearborn, Mich.

Application May 5, 1936, Serial No. 77,997

5 Claims. (Cl. 74—342)



1. A change speed transmission comprising in combination a housing, a main shaft rotatably mounted in the said housing, two pairs of gears carried by the said housing each pair rotatable about separate parallel axes both of which are equidistant from the longitudinal axis of the main shaft, two separate gears splined on the main shaft, one of which is optionally shiftable into meshing engagement with a gear of either the aforementioned pair of gears and the other of said gears is separately shiftable into mesh with but one gear of one of the aforementioned pair of gears.

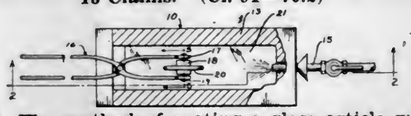
2,162,980

METHOD OF COATING GLASS WITH METAL

Rowland D. Smith, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application December 19, 1936, Serial No. 116,787

13 Claims. (Cl. 91—70.2)



1. The method of coating a glass article with metal, which includes forming a pool of molten metal, the melting point of which is above the annealing point of the glass but below 1500° C., preheating the glass to a temperature below its softening point and introducing the glass into the pool for a period of time sufficient to congeal a layer of the metal on the glass but insufficient to cause appreciable deformation of the article.

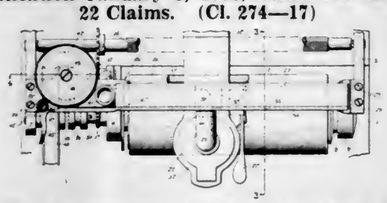
2,162,981

PHONOGRAPH

Richard M. Somers, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application January 3, 1938, Serial No. 183,027

22 Claims. (Cl. 274—17)



1. In a system comprising a phonograph having a sound-translating device movable with respect to a record, and a sound-conveying tube for said device terminating in a fixed location with respect to the phonograph: means of fixed overall length for conveying sound, communicating with the fixed end of said tube and extending along the path of said device, said means of fixed overall length including means providing a movable side opening therein; and a tube coupling said opening with said translating device.

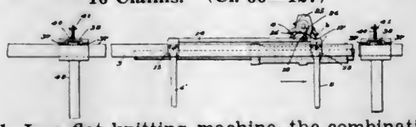
2,162,982

FLATWORK KNITTING MACHINE

Paul G. Stroud, Belmont, N. H., assignor to Belmont Hosiery Company, Belmont, N. H., a corporation of New Hampshire

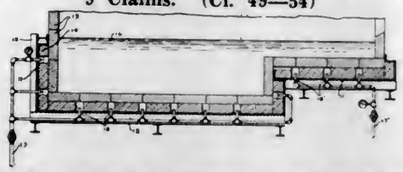
Application February 21, 1938, Serial No. 191,625

16 Claims. (Cl. 66—127)



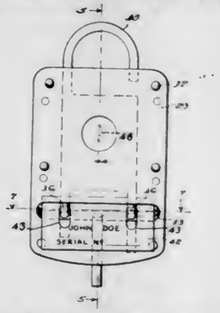
1. In a flat knitting machine, the combination with a plurality of thread carrier bars mounted side by side for reciprocating movement in parallel paths and thread guides on said bars for feeding threads to the needles of the machine, of a reciprocating head mounted for movement in a path parallel with and closely adjacent to said bars, means carried by said head for reciprocating said bars, and parts acting through the movement of said head relatively to the respective bars for causing said means to operate said bars intermittently and in a predetermined order.

2,162,983
GLASS MELTING FURNACE AND METHOD OF USING THE SAME
Eugene C. Sullivan, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application June 2, 1937, Serial No. 146,090
9 Claims. (Cl. 49—54)



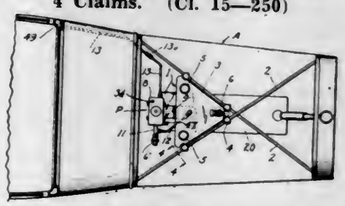
1. The method of assisting in the fining and homogenizing of glass in a melting tank, which includes forcing a fluid medium through seams in the tank wall as required to cause bubbling of the glass.

2,162,984
LOCK
Joseph F. Thomas, Slidell, La.
Application October 18, 1938, Serial No. 235,689
5 Claims. (Cl. 292—329)



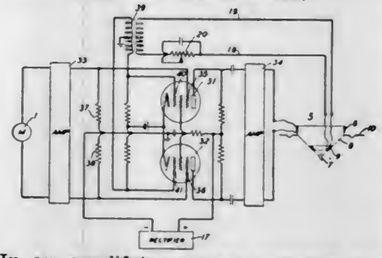
1. A lock of the class described comprising a body provided with a transverse slot therein, a shackle mounted in said body for endwise sliding movement inwardly and outwardly thereof, and through said slot, means to lock said shackle to said body against outward movement rendered effective under inward movement of the shackle and operative to unlock the same, an unlocking member movable to operate said locking means, and a sealing member disposed in said slot and penetrated by the shackle whereby said sealing member is secured in said slot by said shackle to block such movement of said unlocking member.

2,162,985
WINDSHIELD CLEANING DEVICE
Ben J. West, Puyallup, Wash.
Application March 12, 1934, Serial No. 715,062
4 Claims. (Cl. 15—250)



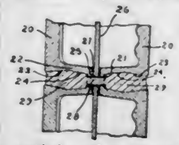
1. In a mechanism unit for spraying a liquid onto the windshield of a vehicle, the combination of a tank containing a liquid, means for securing said tank to said vehicle, a pump having liquid inlet and discharge ducts, means for fastening and connecting said pump to said tank, a conduit extending above said tank and connecting with the discharge duct of said pump, and bypass means connecting the inlet and discharge ducts of said pump to drain the liquid from said conduit back into said tank after said pump has ceased operating.

2,162,986
AMPLIFYING SYSTEM
Charles F. Wiebusch, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 7, 1937, Serial No. 167,706
5 Claims. (Cl. 179—171)



1. In an amplifying system including a vacuum tube having two grids, one of which has a higher mu-factor than the other, means for negatively biasing both grids, a signal path through the system including the grid of lower mu-factor, and a feedback path from the output of the system to the grid of higher mu-factor.

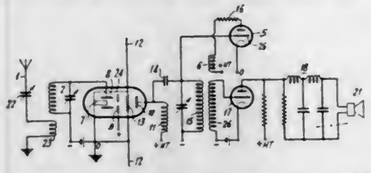
2,162,987
GLASS CONSTRUCTION BLOCK AND WALL ASSEMBLY
Edward J. Winship, Baltimore, Md., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application September 10, 1937, Serial No. 163,320
8 Claims. (Cl. 72—42)



1. As a new article of manufacture, a hollow glass building unit comprising spaced face plates, integral flanges upstanding about the edges of said face plates and sealed together in abutting relation to form the peripheral walls of the building unit, adjacent sections of said flanges being inclined with respect to each other and with respect to said face plates and forming shallow depressions and protuberances extending about the periphery of the article.

2,162,988
RADIO RECEIVER
George Maurice Wright, Woodham Ferrers, England, assignor to Radio Corporation of America, a corporation of Delaware
Application January 15, 1937, Serial No. 120,666
In Great Britain December 13, 1935
2 Claims. (Cl. 250—20)

1. In a receiver, means for connecting the receiver to a source of signal modulated carrier energy, means for providing homodyne detection of received signal modulated carrier energy, means for transferring the intercepted energy from the first named means to said last named means comprising an electron beam tube including a control electrode, an output electrode and a cathode, a tuned circuit connected to apply the intercepted signal modulated carrier energy between the control electrode and cathode of said electron beam



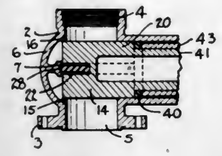
tube, a second tuned circuit capacity coupled to the output electrode of the beam tube, said detection means including a detector having an input circuit and an output circuit and an oscillator tube having an anode circuit and a grid circuit, said grid circuit including said last named tuned circuit, said anode circuit including a resistance and a feedback coil in series, said feedback coil being coupled to said last named tuned circuit, and a utilizing device coupled to the detector output circuit.

2,162,989
METHOD OF PRODUCING FUEL BRIQUETTES
Ellsworth B. A. Zwoyer, Perth Amboy, and Albert L. Stillman, Plainfield, N. J., assignors to The General Fuel Briquette Corporation, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application August 9, 1934, Serial No. 739,106
10 Claims. (Cl. 44—10)

1. The method of making fuel briquettes which comprises heating fuel containing occluded resinous material to the melting point of such resinous material, mixing with said heated fuel a relatively small amount of Bunker C fuel oil that is liquid at normal temperatures and has in itself relatively little binding power, but is capable of dissolving said resinous material in the fuel to form a stiff binding solution having strong cohesive powers, subjecting said mixture to a macerating treatment at the melting point temperature of such resinous material and continuing such treatment until sufficient of the resinous material has been dissolved by the oil to form a solution capable of strongly cohering the fuel particles together when such particles are pressed into briquette form, cooling the mixture to pressing temperature and then forming briquettes therefrom.

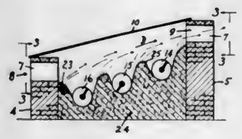
2,162,990
DRILLING VALVE
James S. Abercrombie and Herbert Allen, Houston, Tex.
Application February 4, 1936, Serial No. 62,267
3 Claims. (Cl. 251—28)

1. A valve comprising a housing having a passage therethrough, a hollow cylindrical extension on said housing transversely of said passage, a ram in said extension for movement transversely of the passage, an outstanding packing on said ram, an offset in the wall of said housing opposite said cylindrical extension, a transverse partition in said offset, said partition having an outstanding sealing face adapted to be contacted by said ram in sealing engagement, and an annular seat in said offset coaxial with said ram and adapted to receive the end of said ram preliminary to sealing engagement of the ram with said transverse partition, said annular seat having recesses above



and below said partition to increasingly throttle the flow of fluid through the passage after the ram enters the annular seat and said packing approaches sealing engagement with the sealing face.

2,162,991
CHARCOAL PRODUCTION APPARATUS AND PROCESS
Rea Van Anderson, Los Angeles, Calif.
Application May 22, 1936, Serial No. 81,161
8 Claims. (Cl. 202—19)

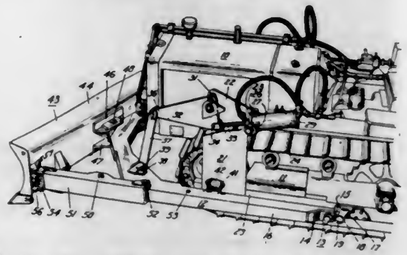


1. The method of making charcoal, comprising moving carbonaceous material capable of producing charcoal in a predetermined path, heating the carbonaceous material to expel volatile gases, igniting the volatile gases from the carbonaceous material, introducing feed material into said path at the head end, discharging charcoal from tail end of said path, and passing a current of air over the material across the width of the path.

2,162,992
REFINING HYDROCARBON DISTILLATES
Waldo C. Ault and Carroll A. Hochwalt, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 3, 1936, Serial No. 66,896
8 Claims. (Cl. 196—36)

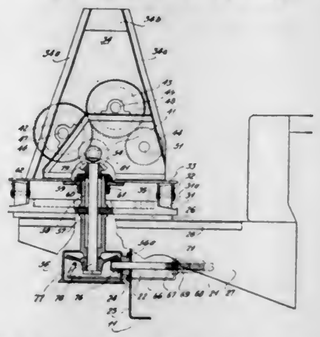
1. In a process of treating a cracked hydrocarbon fraction of gasoline motor fuel boiling range containing objectionable gum-forming constituents wherein the gum-forming constituents are converted into reaction products which are of sufficiently low vapor pressure to render them separable from the said cracked hydrocarbon fraction by reason of the difference in vapor pressure by contacting vapors of the said cracked hydrocarbon fraction with a catalyst, the step of effecting conversion of gum-forming constituents and separation of the reaction products which comprises bubbling the vapors of substantially anhydrous cracked hydrocarbons of gasoline motor fuel boiling range through a liquid body comprising an acid of phosphorous at a temperature sufficiently high to avoid substantial condensation of the cracked hydrocarbons and below the temperature at which any appreciable amount of the reaction product is vaporized.

2,162,993
EARTH MOVING DEVICE
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa, a corporation of Delaware
Application June 25, 1936, Serial No. 87,241
7 Claims. (Cl. 37—144)



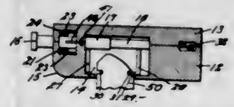
1. In an earth moving device, a tractor, a blade supporting framework, push-poles adapted to be engaged to the blade supporting framework in a plurality of positions, a scraper blade pivotally engaged at the center to the blade supporting framework and means for engaging the blade to the push-poles in a plurality of positions comprising bracket members on the push-poles and scraper blade adapted for interfitting connection and a curved pin for securing together the bracket members, other means for pivotally engaging the blade supporting framework on the running gear of the tractor comprising a bracket member on the tractor, and a link member pivotally engaged to the bracket and to the blade supporting framework, the blade supporting framework having a socket therein for receiving the link member.

2,162,994
EXCAVATING SHOVEL
Walter Baker, Cedar Rapids, Iowa, assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa, a corporation of Iowa
Application January 10, 1935, Serial No. 1,143
3 Claims. (Cl. 212—38)



1. The combination with a "Caterpillar" type tractor characterized by the use of a tractor transmission case secured to the rear of the motor and mounting of the drive wheels and rear axle on the tractor transmission case to thus form the main base structure of the tractor, and the tractor transmission having a power take-off extending longitudinally of the tractor; of a shovel transmission case secured directly to the rear wall of the tractor transmission case in line with the power take-off, a turntable mounted above the shovel transmission case with the axis of rotation thereof to the rear of the tractor transmission case, and power transmitting means associated with the shovel transmission case for transmitting power from the power take-off of the tractor to the turntable.

2,162,995
BUTTON OPERATED COMBINATION LOCK
George H. Brulngton, Santa Fe, N. Mex.
Application March 7, 1939, Serial No. 260,305
14 Claims. (Cl. 70—298)

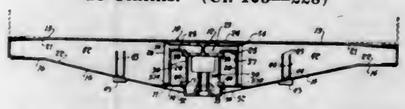


1. A push button combination lock comprising: a withdrawable locking bolt having a locking indentation in its opposite sides; a lock case having a passage for the reception of the extremity of said bolt; push button shafts extending across said channel adjacent the path of said bolt; a combination member on certain of said shafts for engaging one of the locking indentations in said bolt; a locking member on others of said shafts for engaging the opposite locking indentation in said bolt; spring means for urging the combination members into engagement, and the locking members out of engagement, with said bolt; and manual means for depressing said shafts against the action of said spring means.

2,162,996
PROCESS FOR MAKING HYDROGEN PEROXIDE
Lynn H. Dawsey, Wooster, Ohio
Application May 15, 1936, Serial No. 79,903
7 Claims. (Cl. 204—31)

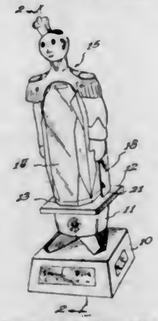
1. The method of producing hydrogen peroxide which consists of subjecting a gaseous mixture comprised essentially of from 2 to 8 percent oxygen and 92 to 98 percent hydrogen to the action of a silent electrical discharge in the presence of an organic compound which polymerizes in said discharge to give a resin-like deposit and belongs to the class consisting of unsaturated hydrocarbons and their oxygen derivatives.

2,162,997
RAILWAY CAR BODY BOLSTER
Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, New York, N. Y., a corporation of Delaware
Application October 29, 1936, Serial No. 108,201
16 Claims. (Cl. 105—228)



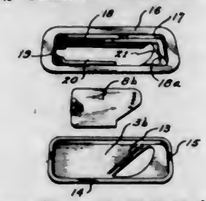
1. In a car body bolster, the combination of a cover plate, a tie plate having a substantially central opening therein within its edges, a center brace structure disposed between said plates and including a center plate portion extending through said opening so that said center plate portion is entirely surrounded by a portion of the tie plate, and means for securing said cover plate and said tie plate to said center brace structure.

2,162,998
DISPLAY DEVICE
Solomon Fisher, Chicago, Ill.
Application April 17, 1939, Serial No. 268,308
12 Claims. (Cl. 40—126)



1. A display device of the character described simulating a figure comprising a base, an article of merchandise disposed upon said base, said base simulating the lower extremities of said figure, said article of merchandise forming the main portion of the body of said figure, and a member simulating the upper extremities of said figure disposed upon said article of merchandise.

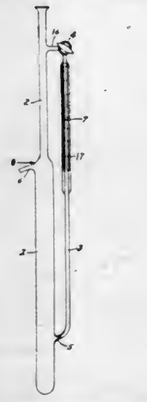
2,162,999
DISPENSING CONTAINER CLOSURE
Emil Frank, Cincinnati, Ohio
Application July 14, 1938, Serial No. 219,217
2 Claims. (Cl. 221—62)



1. A closure for a container having side and end walls comprising a top wall member having a dispensing opening therein, a sliding member for opening and closing said dispensing opening and an auxiliary top member having a cut-out portion permitting limited movement of said sliding member, said auxiliary top member forming channels at the side edges of the sliding member for restraining said sliding member to a plane of movement parallel with said top wall, and said auxiliary top member having peripheral edge portions thereof crimped to the side and end walls of the container thereby securing said auxiliary top member in position.

2,163,000
SEDIMENTATION APPARATUS
Lyle D. Goodhue, Berwyn, Md., and Charles M. Smith, Washington, D. C.; dedicated to the free use of the People in the territory of the United States
Application June 14, 1938, Serial No. 213,642
4 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A differential manometer-type sedimentation apparatus, comprising a lower sedimentation tube; a narrower upper tube disposed on top of and communicating with said sedimentation tube; an outlet tube near the junction of said upper and lower tubes; an indicator tube disposed parallel to said upper and lower tubes a tapered capillary tube connecting said indicator tube to said lower tube at a point above its bottom; a cross tube connecting said indicator tube to said upper tube at a point below its top; a stopcock disposed between said cross tube and said indicator tube; and a glass enclosed scale disposed on said indicator tube.



2,163,001
HAND MIRROR
Joseph Komorous, Riverside, Ill., assignor to Parisian Novelty Company, Chicago, Ill., a corporation of Illinois
Application June 10, 1938, Serial No. 212,900
1 Claim. (Cl. 88—102)

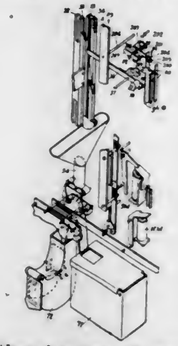


A hand mirror comprising an integral handle and open faced frame, said frame consisting of a ring of greater radial thickness at its front than at its rear, a mirror plate, and a cover extending over the rear surface of the mirror plate and engaging its edge, the cover consisting of a dished metal plate and a flexible sheet adjacent the outer surface of the metal and turned inwardly over the edge of the metal between the metal and the mirror plate, the cover edge being flush with the face of the mirror plate, said assembled mirror plate and cover having a snug fit within the thinner portion of the ring, the mirror plate and flush edge of the cover being parallel to and bearing against the rear surface of the thicker portion of said ring, the outer convex surface of the cover projecting outwardly beyond the rear of the frame.

2,163,002
TELEPHONE PAY STATION
Heinrich Langner, Berlin-Steglitz, Germany, assignor to Telephon-Apparat Fabrik E. Zwietusch and Company, Berlin, Germany
Application December 11, 1935, Serial No. 53,845
In Germany January 11, 1935
4 Claims. (Cl. 179—6.3)

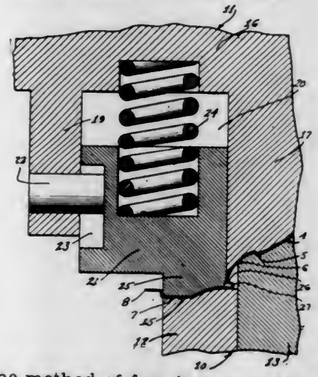
1. In a pay station telephone, a set of contacts, means for operating said contacts responsive to the depositing of coins, means normally effective for locking said contacts in operated

condition upon the deposit of a single coin, and means for at times rendering said locking means



ineffective to thereby permit operation of said contacts by a plurality of coins.

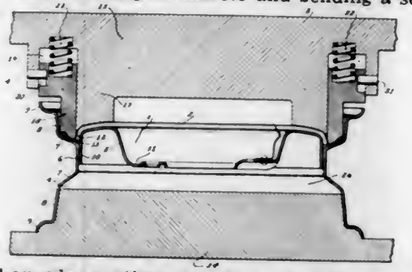
2,163,003
METHOD OF DIE-FORMING PARTS
George Albert Lyon, Detroit, Mich.
Application June 4, 1936, Serial No. 83,434
8 Claims. (Cl. 113—116)



1. The method of forming an undercut indentation in a crown-like part comprising a top portion, an outer portion, and an annular side wall connecting said portions and which side wall extends abruptly upwardly from said outer portion and then merges with said top portion, which includes: subjecting said part to an endwise pressure while holding said outer portion and to compel the upper portion of said side wall to ride along a generally frusto-conical guiding surface whose greatest diameter is adjacent said outer portion, while supporting the lower end of said side wall on an abutment surface, thereby to compel a portion of the material in said side wall to progressively move along the abutment surface and form an undercut indentation therein adjacent the abutment surface.

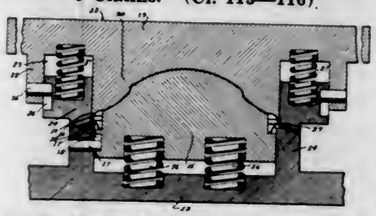
2,163,004
WHEEL DISK AND METHOD OF MOUNTING SAME
George Albert Lyon, Allenhurst, N. J.
Application June 17, 1936, Serial No. 85,632
4 Claims. (Cl. 29—159)

1. The method of mounting an ornamental member on a vehicle wheel which includes gripping and holding an annular portion of the member against a face of the wheel in a fixed position with respect thereto and bending a sec-



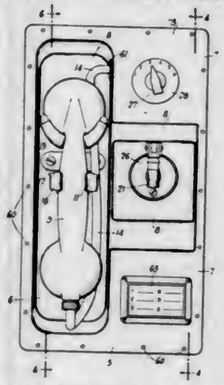
ond annular portion of said member radially inwardly into tight securing engagement with said wheel by the application of axial pressure only.

2,163,005
PROCESS OF MANUFACTURING SHEET METAL ARTICLES
George Albert Lyon, Allenhurst, N. J.
Application August 3, 1936, Serial No. 93,932
6 Claims. (Cl. 113—116)



1. In the manufacture of ornamental sheet metal articles adapted for disposition on vehicle wheels, the process which includes stamping an article having a dome shaped central portion and an unshaped outer portion, shaping said outer portion in a die press, and by the same pressing movement of the press applying axial pressure to the central portion to collapse inwardly a portion of the central portion of the article.

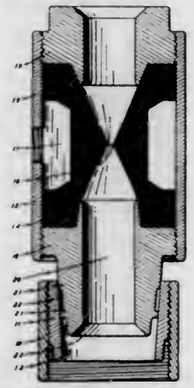
2,163,006
TELEPHONE SET
Herbert F. Obergfell, River Forest, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 2, 1936, Serial No. 113,802
9 Claims. (Cl. 179—100)



1. A telephone set comprising a mounting plate

having a depressed compartment in one section thereof, and a protruding portion in the adjacent section of the plate, flat portions formed above and below the protruding portion of the plate and adjacent to said depressed compartment, a hand set telephone supported in said depressed compartment, a magneto generator attached to the rear of said plate behind said protruding portion with the handle extending through the plate to the front side thereof, a manual selecting switch attached to the rear of the upper flat portion of the mounting plate with the handle protruding to the front side thereof, a signal bell attached to the rear side of the flat portion of said mounting plate, and an instruction card attached to the opposite side of the last named section of the plate.

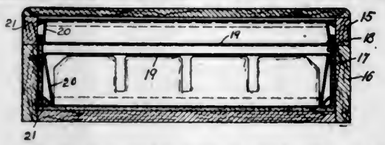
2,163,007
SUCKER ROD WIPER
John W. O'Dell, Oildale, Calif.
Application March 12, 1938, Serial No. 195,484
3 Claims. (Cl. 166—14)



1. A sucker rod wiper comprising: a body member having a bore therethrough adapted to permit the passage of sucker rod boxes; a wiping element attached to said body, said element being expansible to permit said boxes to pass and contractile to wipe the surface of said rods between said boxes; a supporting member arranged to be fastened within the upper end of a pump tubing string, and means for retaining said body member in said supporting member when said boxes pass through said wiping element and for releasing said body member from said supporting member when the lower end of said body member is engaged by an object too large to pass through said bore, said means consisting of mating, downwardly converging faces of solid metal formed within the upper end of said supporting member and on the lower end of said body member.

2,163,008
DISPLAY CASE
Thomas J. Pilliod and Ferdinand C. H. Müller, Swanton, Ohio, assignors to The Pilliod Cabinet Company, Swanton, Ohio, a corporation of Ohio
Application October 20, 1937, Serial No. 169,994
1 Claim. (Cl. 217—56)

In a display case, a member having side walls and an open top, and a closure member of thin material of a resilient nature for closing said opening, said member having depending normally outwardly sprung flanges adapted, when retracted from normal position, to be telescoped within said side walls through said opening and having outwardly turned edge lips which frictionally engage the respective side wall surfaces,

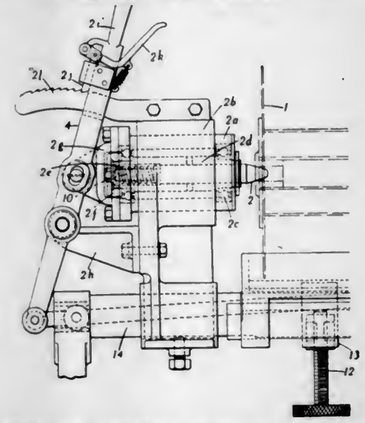


said lips being acutely angled relative to the attached flanges to facilitate insertion of the closure member into said member and to resist an outward withdrawal thereof from the member.

2,163,009
MATCH
Willimena Pratt, Kalamazoo, Mich.
No Drawing. Application September 13, 1937, Serial No. 163,680
5 Claims. (44—42)

1. In a method for preparing a treated match, the step of dipping the head portion of said match into a mixture containing an oil base liquid perfume and gum arabic.

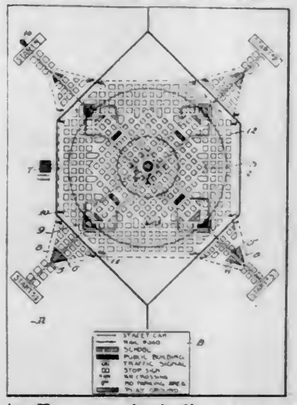
2,163,010
MEANS FOR WINDING ON SPOOLS, WIRE, CORD, YARN, AND OTHER MATERIALS
Samuel Hugh Richards, Harpenden, and Waldo John Clements, Prescot, England; said Clements assignor to British Insulated Cables Limited, Prescot, Lancashire, England
Application August 20, 1937, Serial No. 160,028
In Great Britain September 5, 1936
4 Claims. (Cl. 242—58)



4. Means for rotatably mounting spools in a machine comprising fixed supports, two tapered centers carried by the said supports and free to move along a common axis with relation to the said supports which take the weight of the spool, a tray adapted to support a spool so that the said axis of the centers does not coincide with the axis of the spool but passes through central apertures at each end thereof above the axis of the spool, means for adjusting said tray vertically at two points to vary the distance between the tray and the said axis of the centers and to vary the slope of the said tray, and a mechanical coupling between said centers arranged as means for imparting simultaneous and oppo-

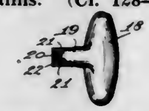
sitely directed axial movements to said centers, whereby the spool is moved from one of two positions to another, the said two positions being one in which the spool is supported solely by the said centers and one in which the spool is supported by the tray.

2,163,011
GAME
Carleton P. Schaub, St. Paul, Minn.
Application August 7, 1937, Serial No. 157,880
2 Claims. (Cl. 273—134)



1. In a traffic game including a game board, playing elements movable thereover and chance controlled means for directing the movement of said elements over said board; chance controlled means for imposing a provisional penalty upon a player for each traffic violation made by his playing element during its progress over said board, and means for then determining the final imposition or withdrawal of such penalty, said last named means calling for skill on the part of the player.

2,163,012
TOE PAD
Abraham L. Schenk, Los Angeles, Calif.
Application January 26, 1938, Serial No. 187,006
2 Claims. (Cl. 128—81)

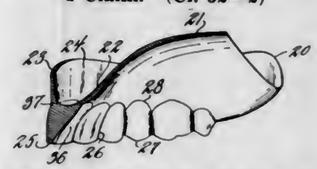


1. A toe pad comprising a body composed of soft flexible material having a length sufficient to overlie the members of an adjacent pair of toes, the upper surface of said body being convex longitudinally and transversely, a web formed integral with and extending outwardly and thence downwardly from the central portion of said body and there being an aperture formed in the central portion of said web.

2,163,013
PRODUCTION OF VOLATILE FATTY ACID ANHYDRIDES
Hermann Schulz, Mainz-Mombach, Germany
No Drawing. Application November 10, 1934, Serial No. 752,474. In Germany November 17, 1933
4 Claims. (Cl. 260—546)

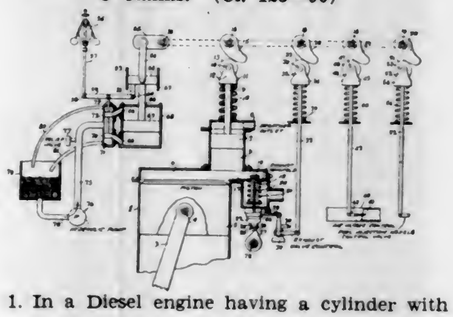
1. The process of continuously producing a simple anhydride of a volatile fatty acid which comprises treating a fatty acid containing more than two carbon atoms with a substantially stoichiometric quantity of acetic acid anhydride at a boiling temperature of the mixture to cause the formation of acetic acid and the anhydride of the aforesaid fatty acid under treatment, continuously distilling off the acetic acid formed during the reaction substantially as soon as such acid is formed, continuing the aforesaid operations until the reaction is finished and practically no more acetic acid is formed, subsequently distilling off the excess of reaction components having a lower boiling point than the anhydride of the aforesaid fatty acid, and then recovering the simple anhydride of the fatty acid containing more than two carbon atoms by itself substantially devoid of mixed anhydrides without previous separation of mixed anhydrides whereby said simple anhydride is produced at a conversion of at least about 80%.

2,163,014
METHOD OF MAKING A DENTURE
William A. Voigt, Toledo, Ohio
Application April 14, 1937, Serial No. 136,831
1 Claim. (Cl. 32—2)



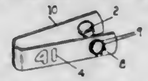
The method of forming a denture comprising the step of obtaining a first impression prior to extraction of teeth, the step of obtaining a second impression subsequent to extraction of teeth, making a positive model of the second impression, making a positive model of the first impression, placing a thin layer of wax over the palatal, labial and buccal surfaces and merging said layer with the teeth at their cervical margins, impressing said last named model in investment material to form a complementary mold cavity, and placing the second impression model in cooperative relation with the mold cavity, thereby to form a complete denture mold.

2,163,015
VARIABLE CLEARANCE VOLUME ENGINE
Frank C. Wagner, Corpus Christi, Tex., assignor of one-half to V. A. Bradley, Corpus Christi, Tex.
Original application January 7, 1935, Serial No. 650. Divided and this application December 5, 1936, Serial No. 114,413
3 Claims. (Cl. 123—90)



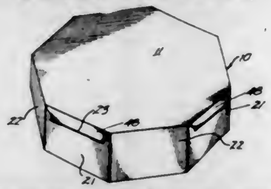
1. In a Diesel engine having a cylinder with an associated exhaust manifold with an exhaust valve therein and a cam shaft with an exhaust valve cam thereon adapted to cause operation of said exhaust valve; means for varying the duration of exhaust valve opening comprising connecting means between said exhaust valve cam and said exhaust valve including a member with a roller engaging said exhaust valve cam and wedge means slidably adjustable to vary the distance between said exhaust valve and said roller, and means to slidably adjust said wedge means including an engine speed responsive centrifugal governor, a rotatably adjustable auxiliary cam shaft, a wedge adjusting cam on said auxiliary cam shaft, hydraulic means operatively connecting said centrifugal governor with said auxiliary cam shaft, and a linkage connecting said wedge adjusting cam with said wedge means, whereby said centrifugal governor, responsive to the speed of the Diesel engine, will vary the duration of exhaust valve opening through adjustment of said wedge means by rotation of said rotatable auxiliary cam shaft.

2,163,016
MARKING BAND
Wellington D. Barker, Battle Creek, Mich., assignor to The Keyes-Davis Company, Battle Creek, Mich., a corporation of Michigan
Application August 16, 1937, Serial No. 159,250
4 Claims. (Cl. 40—3)



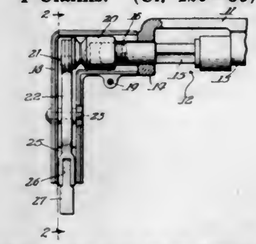
1. A marking band of the class described comprising an integral metallic band and a tubular conical rivet struck or drawn up at one end of the band without varying the width of the band, said band having a hole at the other end adapted to receive said rivet, said hole being surrounded by a conical flange over which the rivet may be expanded, said flange having a serrated edge with which the rivet interlocks to prevent relative turning movement.

2,163,017
PACKAGE FOR FOOD PRODUCTS AND THE LIKE
Samuel H. Berch, Beverly Hills, Calif., assignor to Arden Farms, Inc., Los Angeles, Calif., a corporation of Maryland
Application May 24, 1938, Serial No. 209,733
4 Claims. (Cl. 229—14)



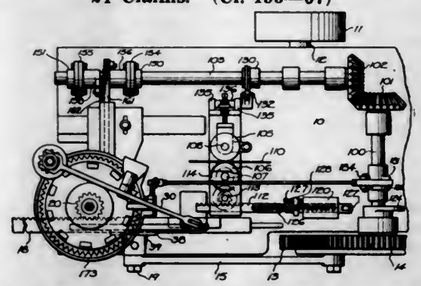
1. A container comprising an inner wrapper for a product, said wrapper having a central polygonal field and a marginal portion around the entire perimeter thereof for forming side walls when folded at right angles to the center field and being scored to form intermediate gussets, a cover wrapper having a central polygonal field and a marginal field adapted to receive said inner wrapper, the marginal field forming outer side walls agreeing with the side walls of the wrapper and providing tangs along edges thereof adapted to fold into the gussets of the inner wrapper, and a top cover of polygonal shape adapted to be placed over the cover wrapper to engage the same and to hold the parts of the container in their folded and formed condition and to close the container.

2,163,018
ERASING DEVICE
Edouard Bernier, Chicago, Ill., assignor of one-half to George A. Scheibel, Wilmette, Ill.
Application February 25, 1937, Serial No. 127,735
4 Claims. (Cl. 120—36)



1. A device of the character described embodying a flexible shaft, bearings spaced a substantial distance from each other, a member connecting said bearings and forming therewith a side opening frame, the end of said shaft being journaled in said bearings and extending across the frame, a support, a lever pivoted to the support, a tool holder at one end of the lever, and means detachably and operatively connecting the other end of the lever with said shaft, the said member between the bearings serving as a hand hold whereby to manipulate the said tool, the open side of the frame affording access to the shaft between the bearings, whereby the shaft may be gripped and held against rotation while the tool is being attached or detached from the shaft.

2,163,019
WIRE COILING MACHINE
William H. Blount, Worcester, and Clayton F. Fisher, Spencer, Mass., assignors to Sleeper & Hartley, Incorporated, Worcester, Mass., a corporation of Massachusetts
Application February 15, 1938, Serial No. 190,612
24 Claims. (Cl. 153—67)



1. A wire coiling machine comprising a rotatable and reciprocable wire coiling arbor, driving mechanism including a reciprocable member, means connected with said member for alternately rotating the arbor and then holding it stationary and means operated in timed relationship with the arbor rotating means for reciprocating the arbor axially during its rotation and for holding the arbor axially stationary while it is not rotating and for a predetermined and variable length of time.

2,163,020

PROCESS FOR STABILIZING ORGANIC HEAVY METAL SALTS

Mihai Bogdan, Ploesti, Rumania, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Original application May 3, 1938, Serial No. 205,757. Divided and this application February 6, 1939, Serial No. 254,799. In the Netherlands May 13, 1937

5 Claims. (Cl. 23—250)

1. In a process for inhibiting discoloration of a salt of a heavy metal and an organic acid selected from the group consisting of aliphatic and alicyclic monocarboxylic acids containing at least 7 carbon atoms, the step comprising finely distributing throughout said salt an anti-oxidant consisting of a diphenyl thiourea, in an amount of 0.02 to 2% by weight of said acid.

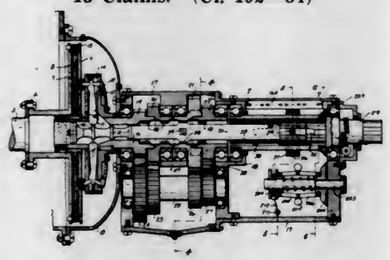
2,163,021

CLUTCH CONTROL MEANS

Eugene S. Bush, St. Louis, Mo., assignor to Bush Manufacturing Company, St. Louis, Mo., a corporation of Missouri

Original application July 9, 1934, Serial No. 734,328. Divided and this application March 10, 1937, Serial No. 130,034

13 Claims. (Cl. 192—84)



1. In an electromagnetically actuated clutch assembly, a reciprocally movable control element adapted to provide a plurality of clutch-engaging positions, with intervening clutch-disengaging positions, through its range of movement in one direction, an electromagnet operatively connected to said element, means for selectively controlling the energization of said electromagnet to effect placement of said control element in its different positions, and means operable responsively to movement of said element into certain of said predetermined positions, for terminating energization of said electromagnet.

2,163,022

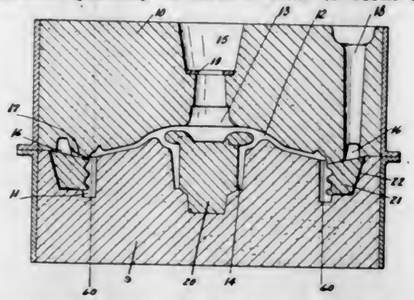
METHOD OF PRODUCING VEHICLE WHEELS

Donald J. Campbell, Spring Lake Township, Ottawa County, Mich., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich., a corporation of Michigan

Application December 14, 1937, Serial No. 179,658

1 Claim. (Cl. 22—205)

The method of producing vehicle wheels having a braking band of cast iron and a supporting web for said band including the hub of the wheel of steel, the method including the steps of producing a mold having a single cavity in which to cast said braking band, web and hub, positioning the mold with the portion of the cavity in which to cast the band downward, depositing in the mold cavity sufficient molten iron to form the braking band and thereafter depositing in the mold against the upper end of the braking band sufficient quantity of molten steel to form the



supporting web for the braking band and the said hub.

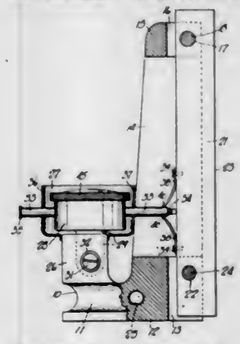
2,163,023

MEASURING INSTRUMENT

John I. Cierpial, Warren Township, St. Joseph County, Ind.

Application February 6, 1937, Serial No. 124,472

12 Claims. (Cl. 33—75)



2. In a measuring instrument, a frame, a member pivoted to said frame, an indicator pivoted to said frame and actuated by said member, and means carried by said member for positioning said indicator in predetermined relation to said member.

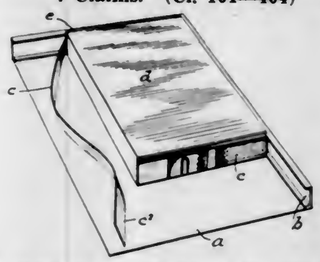
2,163,024

PAGE TIE-UP SLUG

Laurence A. Costigan, Philadelphia, Pa.

Application October 25, 1937, Serial No. 170,825

7 Claims. (Cl. 101—404)



1. A page tie-up slug having two generally rectangular openings, tongues projecting from one of the side walls that define the respective openings and spaced from the other three walls that define said openings, one of said tongues terminating in arrowhead teeth spaced from the bounding wall of one opening and the other of said tongues terminating in pointed teeth spaced from the bounding wall of the other opening and provided with a tie finger.

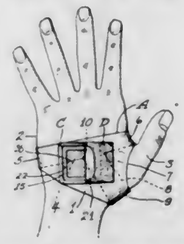
2,163,025

BACKHAND PENCIL POINTER

Bernhard K. Dobkowitz, San Francisco, Calif.

Application May 14, 1938, Serial No. 207,971

6 Claims. (Cl. 120—86)



2. In a device of the type described, a pencil point sharpener comprising a frame having a compartment for receiving pieces of sand paper, and a trough extending around the greater portion of the edges of the sand paper for catching loose graphite.

4. In a device of the type described, a support, a pencil point sharpener secured thereto and comprising a piece of said paper, a graphite retaining trough extending around three sides of the sand paper, and a pencil point wiper secured to the support and being spaced a slight distance away from the sharpener to constitute a graphite retaining member for the fourth side of the sand paper.

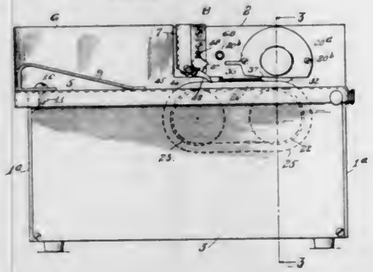
2,163,026

ENVELOPE OPENING MACHINE

Edward J. Dummer and Azel Gay, Rochester, N. Y., assignors to Multipost Company, Rochester, N. Y., a corporation of New York

Application October 7, 1937, Serial No. 167,773

4 Claims. (Cl. 164—61)



4. In an envelope opening machine, the combination with a bed plate, a knife arranged angularly relatively thereto, an endless belt for feeding envelopes along the bed and an edge guide for the envelopes associated with the knife to direct the edge of an envelope in the cutting plane thereof, of a yielding rocking presser foot adapted to engage the edge portion of the envelope at the cutting point, said presser foot being arranged in opposition to the belt and having its under envelope contacting surface flat and inclined transversely downwardly toward the cutting plane, a pivoted supporting arm for the presser foot articulated therewith at a substantially central point so that the presser foot may equalize its pressure against the belt as between intervening thick and thin envelopes riding between them, and a spring acting between the supporting arm and presser foot to transmit a balancing pressure on the two ends of the presser foot.

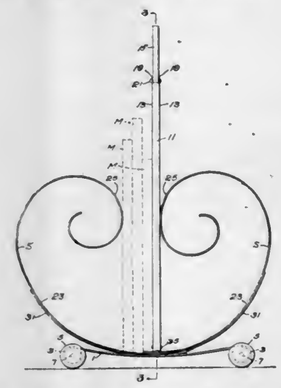
2,163,027

RACK FOR MAGAZINES AND THE LIKE

Fred D. Farr, Mamaroneck, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland

Application April 28, 1936, Serial No. 76,783

1 Claim. (Cl. 211—43)



A rack for magazines and the like having, in combination, vertically extending means opposite sides of which form an abutment against which the sides of magazines are adapted to rest, a flat elongated strip of flexible spring material at each side of said vertically extending means coiled to present a scroll and having an end in fixed relation to said means, each scroll having a flexible upwardly and outwardly bowed portion extending outwardly from adjacent the abutment formed by said means providing an extensible support portion upon which the edges of magazines are adapted to rest and having a free portion opposed to said means for engaging the sides of magazines resting upon said extensible portion and holding them against said means, and a supporting base for said rack carrying said scrolls and said means, the upper surface of said base beneath said scrolls being upwardly inclined away from said means and being adapted to support said extensible portions of said scrolls upon downward flexure thereof when weighted by the magazines.

2,163,028

CLUTCH ACTUATING DEVICE

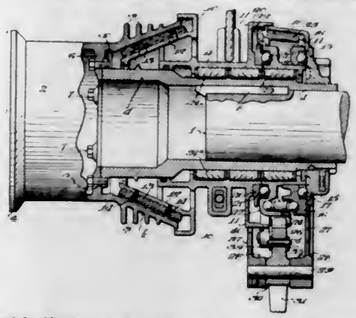
Walter W. Foster, Wichita Falls, Tex.

Application November 23, 1935, Serial No. 51,277

8 Claims. (Cl. 192—93)

8. A control device for break-out catheads comprised of a continuously rotating drum and an axially displaceable drum provided with independently rotatable thrust means for effecting its engagement with said first drum, said control device including means operating to effect slight rotation of said thrust means to effect engagement of said drums, and means carried by said axially displaceable drum for rendering said

thrust rotating means inoperative to thereby re-



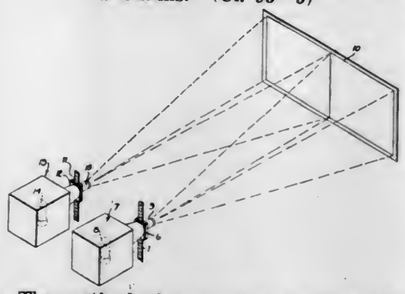
lease said displaceable drum from said continuously rotating drum.

2,163,029

METHOD OF PROCESSING MOTION PICTURE FILM

Fred W. Gage, Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware

Application December 11, 1937, Serial No. 179,328
2 Claims. (Cl. 95—5)



1. The method of processing a print of a developed motion picture film which comprises printing the film frame images of a selected portion of said film on a film strip with the successive film frames of said portion in graduated photographic values, indicating film processing data appropriate to each of said images on said film strip, simultaneously projecting onto a portion of a screen surface the image of a photograph, of a print from said developed film, of proper photographic value while sequentially projecting onto an adjacent portion of said screen surface the film frame images of graduated photographic values of said film strip by illuminating said film frames and said photograph with light beams of substantially the same intensity and equally magnifying said projected images to find a film strip image having substantially the same photographic value as said photograph, and processing a print of said developed motion picture film in accordance with the processing data pertinent to the selected image on said film strip to obtain a print having substantially the same photographic value as said photograph.

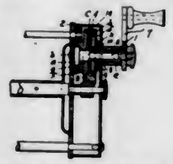
2,163,030

FLOATING GEAR MOUNTING

John R. Gehr, Detroit, Mich., assignor to Louis J. Eppinger, Detroit, Mich.

Application October 14, 1935, Serial No. 44,887
4 Claims. (Cl. 242—84.7)

1. A floating drive gear fishing reel comprising a combined frame and head plate and having a line reel spool with attached operating gear, rotatably mounted therein, a short stud shaft with outwardly extended central pivot section concentric therewith, fixedly mounted on the reel head plate at one side of the reel spool operating gear and parallel with the spool axis, a drive gear rotatably mounted on said stud shaft free



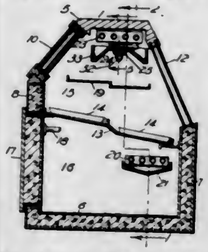
to spin thereon and mesh with the reel spool operating gear, a thin washer shield mounted on the extended pivot section adjacent the stud shaft shoulder, and suitable gear driving mechanism rotatably mounted also on said extended pivot section adjacent said washer shield, designed to engage and rotate said drive gear in one direction of rotation only.

2,163,031

METHOD AND APPARATUS FOR REFRIGERATING PERISHABLES

Herman H. Goalstone, Denver, Colo., assignor to The National Store Fixture Company, Denver, Colo., a corporation of Colorado

Application January 26, 1937, Serial No. 122,354
13 Claims. (Cl. 62—89.5)



2. In a display case of the character described having a refrigerating element in its upper portion, a combined drip pan and light-reflector beneath the refrigerating element, comprising a body sloping beneath the element lengthwise of the case, having a central arched portion and having upright sides, each of the sides forming with the arch a basin therebetween, and the under surface of the arched portion defining the light-reflector, and a drain at the lower end of the basin.

2,163,032

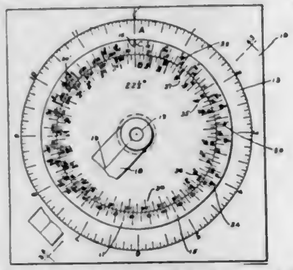
CALCULATING DEVICE

Alexander Goldstein, Chicago, Ill.

Application November 16, 1936, Serial No. 111,023
5 Claims. (Cl. 235—84)

1. A device for determining the length of a side of a right angle triangle of a given angularity when the length of another side is known, said device comprising two relatively movable slide members having adjacent relatively movable scales the first of which is calibrated into sub-units of at least one complete unit of measure and the second of which is calibrated as a constant multiple of said first scale, the constant being the ratio of the lengths of the two sides of a right angle triangle of the angularity for which the device is constructed, whereby when the zero

index marks of the two scales are opposite one another the adjacent values on the two scales indicate corresponding lengths of two sides of said triangle up to a unit of length of one of said sides, one of said scales having a series of other index marks thereon constituting digits, each digit index being spaced from the zero point on



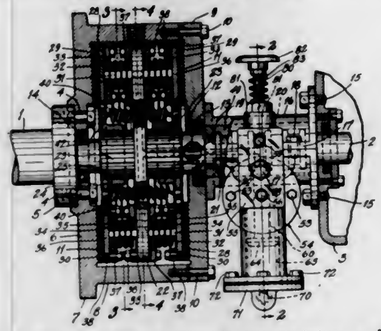
the scale by a distance which is equal in length, in sub-units of the second scale, to the remainder after the largest possible number of whole units has been subtracted from the product of the digit and the constant multiplied by the number of sub-units per unit, said maximum number of whole units being indicated adjacent each digit index.

2,163,033

FLUID PRESSURE CLUTCH

Edward P. Gosling and Ferdinand J. Bittermann, St. Louis, Mo.

Application July 19, 1937, Serial No. 154,362
2 Claims. (Cl. 192—88)



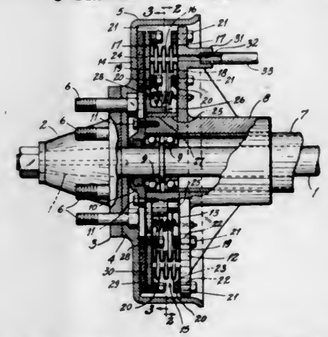
1. A fluid pressure clutch comprising a housing secured to the end of a rotating shaft, said housing having internal radially disposed clutch faces, a transmission shaft extending into said housing in alinement with said first named shaft, said transmission shaft having a radially disposed thrust plate fixed thereon and having splines on both sides of said thrust plate, internally splined hubs mounted on the splined portions of said transmission shaft, radially disposed annular clutch plates fixed on said hubs, annular pressure plates adjacent to the faces of said clutch plates remote from said clutch faces of said housing, annular bellows members, each secured to a face of said thrust plate and to one of said pressure plates, and springs secured to said hub members and extending through holes provided therefor in said thrust plate for urging said hubs towards each other and collapsing said bellows, said transmission shaft and thrust plate having passageways permitting flow of fluid into said bellows to expand them and engage the clutch.

2,163,034

FLUID PRESSURE BRAKE

Edward P. Gosling and Ferdinand J. Bittermann, St. Louis, Mo.

Application August 2, 1937, Serial No. 156,854
5 Claims. (Cl. 188—72)



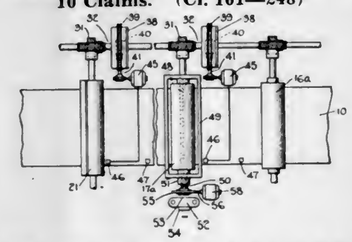
1. A fluid pressure brake comprising an axle having a brake drum mounted near the end thereof, said brake drum having a radial brake disk portion, a housing for said axle stopping short of said brake drum, a supporting casing mounted on said axle housing and projecting beyond the end thereof, a bearing interposed between said axle and said casing, a positioning ring securing said bearing in said casing, a radially disposed thrust plate projecting from said casing and spaced from said brake disk, said casing having splines on the end nearer said brake disk, an internally splined hub member mounted on said splined portion, a friction plate secured to said hub member for cooperation with said brake disk, a pressure plate disposed flatwise against the face of said friction plate remote from said brake disk, an annular bellows secured to said thrust plate and said pressure plate for forcing said friction plate towards said brake disk and means for supplying fluid under pressure to said bellows.

2,163,035

APPARATUS FOR EFFECTING REGISTER OF MULTIPLE OPERATIONS

William F. Grupe, Lyndhurst, N. J., assignor to Chambon Corporation, Garfield, N. J., a corporation of New York

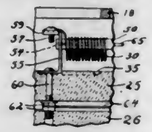
Application July 7, 1936, Serial No. 89,301
10 Claims. (Cl. 101—248)



8. The combination with a printing machine adapted to operate on a moving web and including a printing unit adapted to apply a target to the web, a device operative on the web subsequently thereto, and means for feeding said web into the machine, of a drive shaft extending longitudinally along the path of travel of said web for driving said printing unit and said device; means operatively disposed intermediate said device and said drive shaft for affording additive or

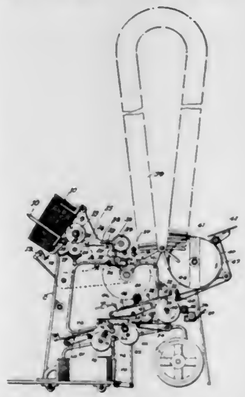
subtractive increments of movement of said device relative to said drive shaft, said means comprising worm means adjustably related to said drive shaft, and a worm wheel meshing with said worm means and associated with said device for driving the same; and means responsive to said target for initiating operation of said intermediate means.

2,163,036
ELECTRIC HEATER
Arthur H. Happe, Detroit, Mich., assignor of one-half to Herman A. Sperlich, Detroit, Mich.
Application June 21, 1934, Serial No. 731,592
Renewed November 28, 1938
10 Claims. (Cl. 201—63)



1. In combination with suitable supporting means therefor, an integral, substantially straight expansible and contractible rod-like insulating support of refractory material extending horizontally through free space and having a longitudinal channel therein, an electrical resistance element coiled thereover in loops substantially larger than the support and engaging the support at intervals only, and a metallic reinforcing member in said channel expansible and contractible independently of the support.

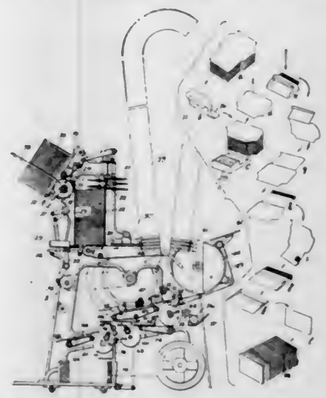
2,163,037
MANUFACTURE OF DRY-SEALING ENVELOPES
Vincent E. Heywood, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application March 24, 1936, Serial No. 70,619
41 Claims. (Cl. 93—62)



2. In the manufacture of envelopes of the type adapted to be sealed by the contact of two complemental areas of dry-sealing adhesive, the improvement which consists in so folding each envelope blank as to dispose contiguous to each other the two blank areas destined to receive such adhesive, conveying the so-folded blanks in a shingled relation that exposes such two areas of each blank, and applying the adhesive progressively to said exposed blank areas, while the blanks are being so conveyed.

19. In the manufacture of envelopes of the type adapted to be sealed by the contact of a flap area and a body area both coated with a dry-sealing adhesive, the improvement which consists in folding each blank to dispose contiguous to each other the aforesaid two areas, imparting to the body area a definite curl or warp away from the plane of the flap area, assembling the so-folded blanks in a stepped or shingled relation that exposes on one side thereof only such flap and body areas in alternating relation, coating such exposed areas at a single continuous operation with a solution of said adhesive and allowing the folded blanks to dry separately, thereby making said warp or curl of the body area effective in overcoming the bond or union between the two areas produced by such adhesive coating.

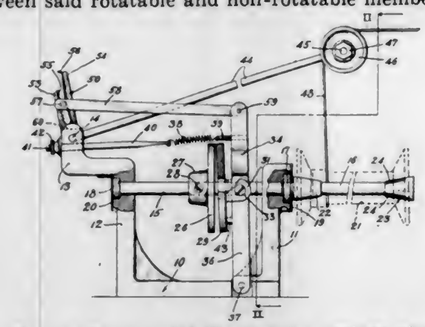
2,163,038
MANUFACTURE OF DRY-SEALING ENVELOPES
Vincent E. Heywood, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application August 13, 1936, Serial No. 95,871
16 Claims. (Cl. 93—62)



3. In a machine for making envelopes of the type adapted to be sealed by the contact of two complemental areas of dry-sealing adhesive, means for so folding each envelope blank as to dispose contiguous to each other the two areas destined to be coated with such adhesive, and means for subjecting each so-folded blank separately to a single application of such adhesive in solution, for the coating of said two areas.

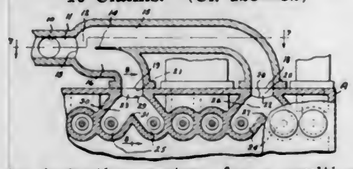
2,163,039
TENSIONING DEVICE
Gerhardt Anton Hinricher, Chicago, Ill., assignor to Reynolds Electric Company, Chicago, Ill., a corporation of Illinois
Application February 10, 1936, Serial No. 63,069
10 Claims. (Cl. 242—156)

1. A friction brake including a rotatable member, a cooperating non-rotatable member, and a yoke member for moving the latter into and out of operative engagement with the former, said non-rotatable member being pivotally mounted on and carried by said yoke member to normally assume an oblique angle to the cooperating surface of the rotatable member, whereby movement of said yoke member toward said rotatable member progressively effects cooperative contact between said rotatable and non-rotatable members



so that said non-rotatable member swings about its pivot mounting to gradually increase the area of contact with said rotatable member.

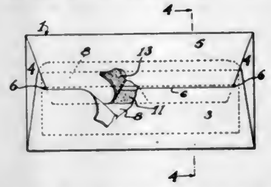
2,163,040
INDUCTION SYSTEM FOR INTERNAL COMBUSTION ENGINES
Enos R. Jacoby, Muskegon, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application February 26, 1938, Serial No. 192,722
10 Claims. (Cl. 123—52)



1. An induction system for a multi-cylinder engine having in combination, a cylinder block having a pair of cylinder intake passages each individually communicating with a cylinder intake port, said block having a partition separating said passages and providing a split, said induction system further including a distributing chamber located ahead of said split substantially within the cylinder block, and a secondary conducting portion ahead of said distributing chamber, said secondary conducting portion having a portion thereof adjacent to said distributing chamber constructed to provide a substantially straight closer conduit having a length sufficient to permit the fuel mixture flowing therethrough to attain substantial equilibrium prior to being inducted into said distributing chamber, and an arcuate fuel impeding means located substantially adjacent to the outlet of said conduit and acting on the fuel precipitate flowing into said distributing chamber to substantially reatomize the same and to selectively direct wet fuel in the cylinder intake passage open to engine suction pressure.

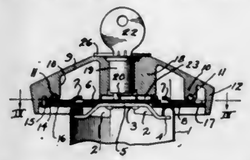
2,163,041
ENVELOPE
Milton Kahn, Long Island City, N. Y., assignor to Novelart Mfg. Co., New York, N. Y., a firm
Application June 28, 1938, Serial No. 216,221
1 Claim. (Cl. 229—82)

A dry adhering envelope having the combination of a front wall, a rear wall, a closing flap forming part of said front wall folding over said rear wall, said rear wall having a slot, a reenforcing tab having its margin secured to the undersurface of said rear wall, the unsecured area of said tab facing said slot and undersurface of said rear wall having a dry adhering coat, the under-



surface of said flap having a dry adhering coat, and said flap being adapted to pass its leading portion through said slot to bring its coat into registry with said other coat.

2,163,042
CONTAINER CLOSURE
Emil Richard Klemm, Jr., Chicago, Ill., assignor to K. D. S. Corporation, Chicago, Ill., a corporation of Illinois
Application February 12, 1938, Serial No. 190,146
5 Claims. (Cl. 70—165)



2. A tank intake closure comprising a closure plate having means thereon for coacting with the intake to close the same, a casing for enclosing the closure plate and normally rotatable with respect thereto, a ring member in the casing coacting with the closure plate for retaining the same in the casing and preventing access to the outer margin of the closure plate for obviating unauthorized locking of the plate with respect to the casing, and a key controlled latch means slidably supported on the inner face of the closure plate and movable into engagement with parts of the closure plate to lock the plate and casing together to permit authorized removal of the closure from the intake or mounting of the closure on the intake.

2,163,043
HAIR DYEING COMPOSITION AND METHOD
Wolf Kritchevsky, Chicago, Ill., assignor to Rit Products Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application February 7, 1938, Serial No. 189,168
14 Claims. (Cl. 167—88)

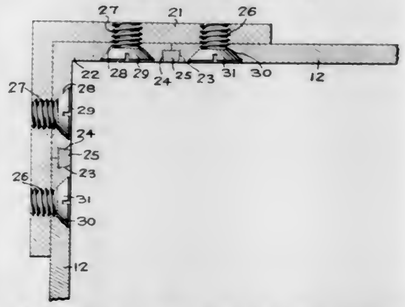
1. The method of dyeing hair which comprises treating the hair with a composition including an organic dye and a chemical having the nucleus



6. A hair dyeing composition comprising an organic dye and a chemical compound having the nucleus

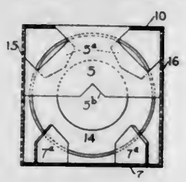


2,163,044
VAULT
Samuel Forry Laucks and Charles F. Sioberg, York, Pa., assignors to York Safe and Lock Company, York, Pa., a corporation of Delaware
Application May 5, 1937, Serial No. 140,879
7 Claims. (Cl. 109—79)



1. A lining for vaults and the like, comprising plates disposed with their adjacent edges in contact with each other, a batten lapping the edges of said plates and disposed on the outer side of the plates, means for securing the battens to the plates, grooves formed on the inside surfaces of the plates along the adjacent edges thereof, said grooves being coextensive the length of the plates, and lead mounted in said grooves for sealing the joints between the plates.

2,163,045
CARTON AND BLANK THEREFOR
Carroll K. Lavere, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application March 14, 1938, Serial No. 195,745
9 Claims. (Cl. 229—37)



1. A carton for containing a piece of hollow ware formed of a blank including a row of panels bent on bending lines to form the sides of the carton, panels bendably connected with opposed edges of alternate panels in the said row of wall forming panels, said last named panels containing tongues bendable therefrom to engage the interior and exterior sides of the wall of the ware between its top and bottom.

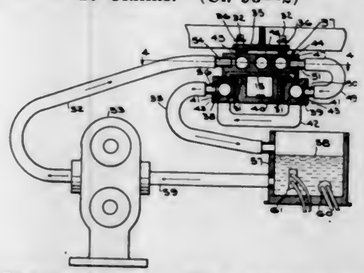
2,163,046
POLISHING PAD PACKAGE AND METHOD OF PREPARING SAME
Leo B. Leavitt and Earl A. Leavitt, Chicago, Ill.
Application July 5, 1938, Serial No. 217,481
2 Claims. (Cl. 206—46)

1. In a package whose interior portions are substantially impervious to air, a plurality of superposed absorbent fabric pads lying one upon the other and forming a substantially cylindrical pack or body, each of said pads being coated and impregnated with a composition having cleansing, coloring and polishing properties, said cylindrical pack having coating of said composition upon



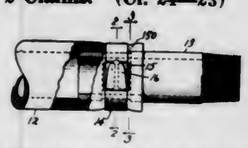
its exterior surfaces and between the respective peripheral edges of adjacent pads.

2,163,047
WRAPPING MACHINE UNIT
Clarence J. Malhiot, Oak Park, Ill., assignor to F. B. Redington Co., Chicago, Ill., a corporation of Illinois
Application November 4, 1936, Serial No. 109,106
10 Claims. (Cl. 93—2)



1. The combination with a wrapping machine having a channel-shaped support, of a conveyor chain operating in said support, a sealer element adjacent the conveyor, said sealer element comprising an upper member and a lower member, one of said members having a portion thereof forming a guide for said conveyor chain to permit a wrapped article to be moved between said members, and the other of said members having restricted movement to permit passage of the article, while at the same time pressing said article between said members, means connecting the members together, and means for passing a heated fluid through said upper member, said connection and said lower member.

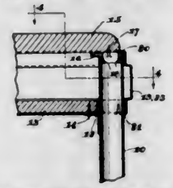
2,163,048
BAND CLAMP
Glenn L. McKee, Bakersfield, Calif., assignor to McKee Brothers Corporation, Bakersfield, Calif., a corporation of California
Application February 13, 1937, Serial No. 125,650
2 Claims. (Cl. 24—23)



2. A band clip comprising a body member having flange members extending toward each other, defining a longitudinal passage between the body

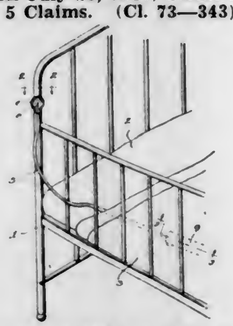
and the flange members, and a tongue extending from one end of and overlying the body member on the side away from the longitudinal passage, the tip of the tongue extending around the end of the body member.

2,163,049
TABLE OR THE LIKE
Ralph K. Merrill, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application April 5, 1937, Serial No. 134,955
2 Claims. (Cl. 311—108)



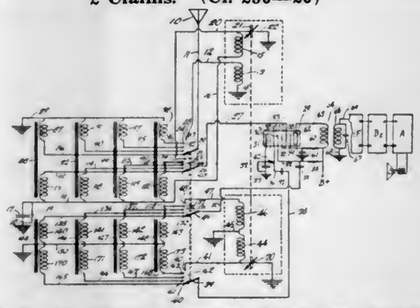
1. In a structure of the class described, a pair of spaced vertically disposed tubular legs, a horizontally disposed top member having a pair of spaced plates secured to its under surface, each plate being provided with a depending annular flange set into the upper end of a tubular leg, a horizontally disposed sub-top member disposed below the top member in spaced relation thereto and between the pair of tubular legs and having a pair of spaced brackets secured to its under surface, each bracket being provided with a depending flange secured to a tubular leg below the upper end thereof, and a pre-fabricated channel sheet metal ornamental band rigidly connecting the top and sub-top, the upper flanged portion of said band being secured to the under surface of the top member and the lower flanged portion of said band being in engagement with the under surface of the sub-top.

2,163,050
DEVICE FOR INDICATING THE UNDER-COVER TEMPERATURE IN A BED
Sidney K. Meyer, Detroit, Mich.
Application July 26, 1937, Serial No. 155,614
5 Claims. (Cl. 73—343)



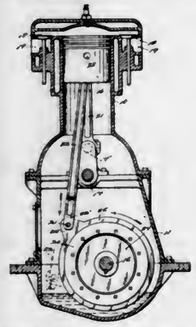
2. A device adapted for indicating the temperature of the air under the covers of a bed when occupied by a person, comprising in combination a closed system containing a thermo-expandible liquid, a heat insulating covering for the said system including a heat insulating housing for a portion of the said system, means for mounting the said portion of the system within the housing in spaced relation therewith, the said housing having a plurality of openings permitting circulation of undercover air therethrough, said insulating housing having at least one imperforate side serving as a shield to insulate the said portion of the system from direct contact with the body of the person occupying the bed and from heat radiated directly from said body, and a scale connected with the said system cooperating with the liquid therein to indicate the temperature of the air under the covers.

2,163,051
SIGNALING SYSTEM
Joseph L. Miller, Oak Park, Ill., assignor to Travler Radio & Television Corporation, Chicago, Ill., a corporation of Illinois
Application March 21, 1938, Serial No. 197,069
2 Claims. (Cl. 250—20)



1. In an electrical system having a plurality of circuits tunable by inductance variation, an inductance coil for each circuit, a magnetizable core for each inductance coil, means for mounting said inductance coils axially in fixed relation to each other, means for loosely mounting said cores in alignment on a common operating rod threaded through said cores, means for adjusting the position for each core with respect to said rod longitudinally thereof including a spring between each of said aligned cores to maintain the spacing therebetween, said cores being differently shaped whereby upon movement of said rod all said cores are simultaneously moved with respect to their coils to change tuning of said circuits by equal frequency increments.

2,163,052
EXPLOSIVE ENGINE
Matti Niemi, Seattle, Wash.
Application April 6, 1937, Serial No. 135,233
4 Claims. (Cl. 74—126)



1. In an engine, in combination with a reciprocating piston and a cylinder therefor having

valved intake and exhaust ports by which fuel for combustion purposes is admitted to and the products of combustion discharged from the combustion chamber thereof, a momentum crank shaft and a load crank shaft revolubly supported to lie in vertically stepped relation below the cylinder to locate the axis of the former approximately in the longitudinal vertical center line of the cylinder and the axis of the latter therebelow and in laterally off-set relation to said vertical center line, a rod providing constant direct-drive connection between the piston and the momentum shaft, and an associated rod providing direct-drive connection from the piston to the load shaft in one stroke of piston reciprocation only, the crank arm which connects the load shaft with the latter of said connecting rods being so chosen, for the purpose of constantly maintaining the connecting rod tangentially or approximately so to the circle of revolution taken through the crank pin and about the load shaft as an axis, that the piston stroke does not exceed the length of the crank arm and the angle formed by a triangle of which said arm and the connecting rod comprise the two sides thereof does not, at the upper limit of the piston travel, exceed 135°.

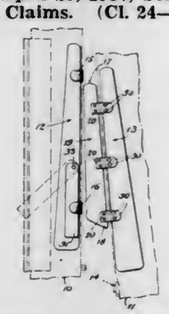
2,163,053

GARMENT CLASP

Eugene E. Norton, Bridgeport, Conn., assignor to Connecticut Clasp Company, Bridgeport, Conn., a corporation of Connecticut

Application April 28, 1937, Serial No. 139,437

14 Claims. (Cl. 24—204)



4. The invention as defined in claim 1, in which the first and second strips are adapted to be enclosed within the fabric of the adjacent sides of the garment with the third strip and the sockets on the second strip exposed for direct engagement with each other, in which a piece of metal is superposed on the fabric covering the second strip in the vicinity of the one of said sockets which receives the tongue on the third strip after the latter is bowed, to protect the garment from being damaged by the said tongue.

2,163,054

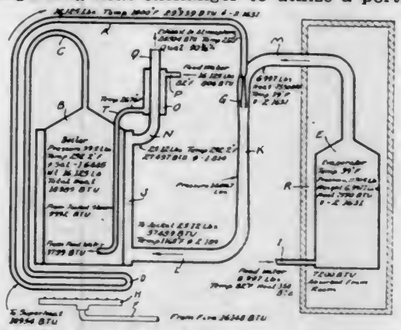
REFRIGERATING SYSTEM

Perry Okey, Columbus, Ohio, assignor of one-half to Earl R. Andrix, Columbus, Ohio

Application August 10, 1937, Serial No. 158,383

4 Claims. (Cl. 62—152)

2. A refrigerating system comprising a boiler for generating high pressure steam, means for superheating the steam generated in said boiler, a steam jet compressor to which steam obtained from said superheater is delivered for expansion, a water evaporator having a vapor outlet leading to said jet compressor, a heat exchanger disposed adjacent to said boiler, and means for passing vapors discharged from said jet compressor through said heat exchanger to utilize a portion



of the heat contained therein for vaporizing fluids within said boiler.

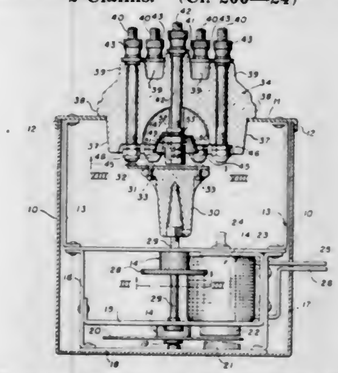
2,163,055

SIGN FLASHING DEVICE

Waldemar N. Olson, Brookfield, Ill., assignor to Reynolds Electric Company, Chicago, Ill., a corporation of Illinois

Application June 21, 1937, Serial No. 149,281

2 Claims. (Cl. 200—24)



1. In a sign flasher of the character described, the combination with a split housing including a cap member of insulator material, of circumferentially spaced terminals of electric conductive material mounted in said cap member, a shaft journalled for rotation in said housing, a control arm attached to said shaft within said split housing and axially of said circumferentially spaced terminals, a central terminal mounted in said cap member for electrical connection to said control arm, and an electrode fixed to said central terminal at a fixed distance from all of said circumferentially spaced terminals to present a safety gap somewhat greater than the gap defined between said circumferentially spaced terminals and said control arm.

2,163,056

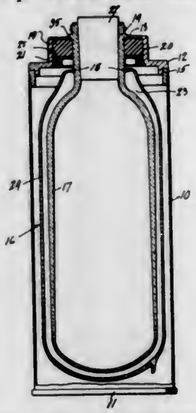
VACUUM BOTTLE AND SUPPORT THEREFOR

Arthur H. Payson and Charles O. Duevel, Jr., Norwich, Conn., assignors to The American Thermos Bottle Company, Norwich, Conn., a corporation of Ohio

Application February 18, 1937, Serial No. 126,338

1 Claim. (Cl. 215—13)

A vacuum bottle comprising a double wall body portion and a single wall neck portion extending therefrom, said neck portion and inner wall of the body portion being thicker than the outer wall of the body portion, the vacuum chamber of the body portion overlapping the lower part of said neck portion, a casing, means for suspending in said casing said vacuum bottle by said neck portion, a detachable head for said casing, having an opening therein through which the bottle neck is adapted to protrude, said head cooperating



with the bottle neck to form a packing chamber, means for compressing the packing against the bottle neck consisting of a bi-sectional ring, one section being secured to the wall of the packing chamber, securing means adapted to fasten the other section to the first named section, said bi-sectional ring being adapted to surround the bottle neck, the packing being positioned between said ring and bottle neck, and means for tightening said ring on said packing and thereby compress the same.

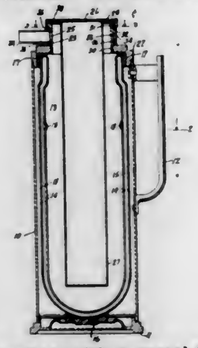
2,163,057

VESSEL FOR MIXING AND COOLING LIQUIDS

Arthur H. Payson and Charles O. Duevel, Jr., Norwich, Conn., assignors to The American Thermos Bottle Company, Norwich, Conn., a corporation of Ohio

Application February 18, 1937, Serial No. 126,339

3 Claims. (Cl. 215—13)



3. In combination with a vessel for mixing and cooling liquids, a casing comprising a head, a base and a shell, said head and base being removably fitted to said shell, a rotatable neck adapted to be pressed into said head, a facing washer angularly disposed to said neck and adapted to protect said head from contact of liquid in said vessel, a chamber having a double wall interiorly spaced and air evacuated, a shock absorber on said base, and a resilient packing in said head, said chamber being cushioned in and supported by said shock absorber and packing.

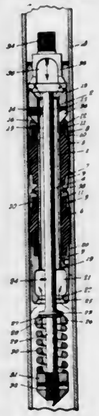
2,163,058

SWAB

John T. Phipps, Huntington Park, Calif., assignor to Roy F. Wolfgram

Application June 1, 1937, Serial No. 145,697

1 Claim. (Cl. 103—225)



In a swab for wells, a hollow elongated body member having a fluid passage extending longitudinally therethrough, said body member being open at both of its ends, valve means for closing the lower end of said body member including a valve port formed upon said body member, and a valve operable to three positions, one closing against said port, another disposed below said port and a third disposed above said port.

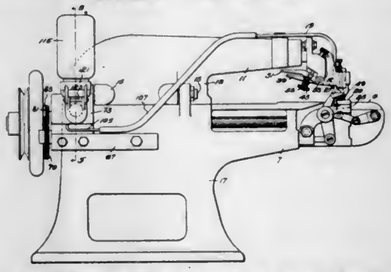
2,163,059

APPARATUS FOR APPLYING AND SECURING STRIP MATERIAL

Leroy Q. Presby, Melrose, Mass., assignor to American Stay Company, East Boston, Mass., a corporation of Massachusetts

Application December 17, 1936, Serial No. 116,411

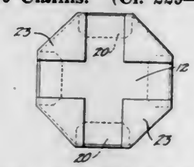
7 Claims. (Cl. 12—55)



1. Apparatus for applying a strip having a coating of non-tacky cement capable of being rendered tacky by treatment with a substantially non-setting liquid softening agent of water-like consistency, an instrumentality for presenting such liquid, means for progressively moving said strip to present said coating to said instru-

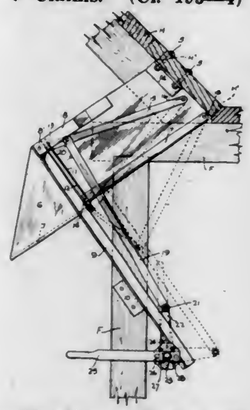
mentality to contact with and remove liquid thereat by reason of such contact and pressing said strip to the part to which it is to be applied with said coating in contact with said part, and means for maintaining a continuous supply of such liquid at said instrumentality comprising a liquid reservoir and a constantly driven pump for constantly supplying liquid from said reservoir to said instrumentality.

2,163,060
PACKAGE
Don Ray, Hollywood, Calif., assignor to Arden Farms, Inc., Los Angeles, Calif., a corporation of Maryland
Application May 24, 1937, Serial No. 144,377
Renewed December 24, 1938
10 Claims. (Cl. 229—14)



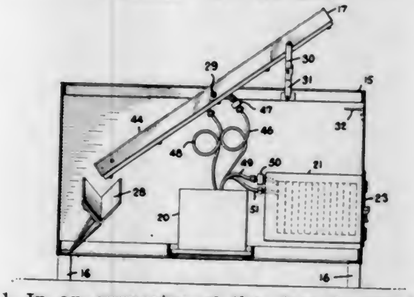
1. A package to receive a product to be packed, which package comprises an inner wrapper formed from a sheet of material and adapted to be folded to provide a container for the product, a top sheet for said inner wrapper to be placed over the product and to cooperate with the inner wrapper in providing a complete closure for the product, an outer wrapper formed of a flat sheet of material to be folded to provide a container for the product and the inner wrapper, a flat top cover sheet for the outer wrapper, and cooperating means on the outer wrapper and the flat top cover sheet for interlocking said parts together and completely enclosing the inner wrapper and its cover sheet.

2,163,061
CHUTE AND VALVE
Royal N. Riblet, Spokane, Wash.
Application November 1, 1937, Serial No. 172,182
7 Claims. (Cl. 193—4)



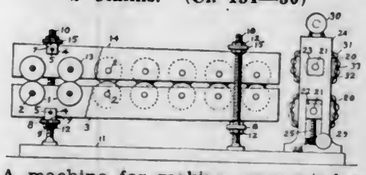
1. The combination with a chute having an open mouth, of a gate extending transversely of the chute and closing its mouth, a pair of diagonally extending side bars pivoted to the upper portion of the gate and hinged to the chute, a second pair of side bars in a plane substantially parallel with the bottom of the chute pivoted to the lower portion of the gate and hinged to the chute at a point spaced from the hinge point of the first mentioned pair of side bars, and operating means connected to one of said pairs of bars.

2,163,062
PRINT REPRODUCING TABLE
Herman F. Riesenkönig, New York, N. Y., assignor to Lithoprint Company of New York, Inc., New York, N. Y., a corporation of New York
Application May 11, 1938, Serial No. 207,242
7 Claims. (Cl. 101—131)



1. In an apparatus of the class described, a self-contained lithoprinting table comprising an enclosed supporting frame, a work top mounted on said frame and adapted to be tipped to receive gelatine material and to be positioned substantially horizontal during print reproduction, a conduit associated with the under side of said work top for receiving a cooling medium, insulating means associated with said work top and positioned away from the under side of said top to allow the cooling medium to keep said work top at a low temperature; means mounted in said self-contained table for producing the cooling medium and for flowing the same through said conduit to one surface of said work top, and a second heat insulation means for maintaining the cooling medium in association with said work top and without substantial loss by heat transfer.

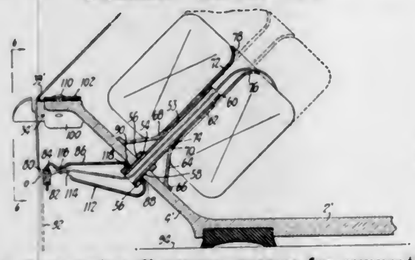
2,163,063
MACHINE FOR MAKING CORRUGATED ARTICLES
Hippolyte W. Romanoff, New York, N. Y.
Application August 11, 1937, Serial No. 158,500
2 Claims. (Cl. 154—30)



1. A machine for making corrugated articles comprising a plurality of pairs of bars, a plurality of rollers rotatively supported between the bars in every pair, means to support the bars in two planes one above the other, means to adjust the horizontal distances between the pairs of the bars in each plane so as to cause the pairs of bars to converge toward one end, and means to pull a sheet of pliable material between the upper and lower rolls toward the converging ends of the bars so as to form longitudinal corruga-

tions in the sheet, said means to include a pair of rolls with peripheral ribs, the spacing of the ribs corresponding to the spacing of the end rollers, the rolls having longitudinal grooves across the ribs for providing positive engagement with the material for pulling the latter between the rollers and for imparting transverse corrugations to the material.

2,163,064
TWINE DISPENSER
Herbert H. Rominger, Oakland, Calif., assignor to J. Edney Harton, Oakland, Calif.
Application January 10, 1938, Serial No. 184,172
4 Claims. (Cl. 242—142)

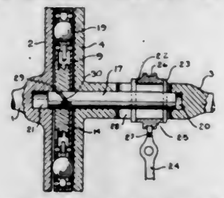


1. In a twine dispenser, means for supporting spools of twine thereon, means for guiding twine to issue therefrom at a fixed point, and means providing an arcuate cutter edge centered upon said point of issue.

2,163,065
PROCESS OF FERTILIZATION FOR VEGETATION
Ludwig Rosenstein, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 18, 1937, Serial No. 169,675
1 Claim. (Cl. 47—58)

Process for fertilizing soils comprising passing orthophosphoric acid into irrigation water in such amounts that the concentration of phosphoric acid in said water does not exceed 43 parts per million and thereafter passing said water into contact with vegetation.

2,163,066
POWER TRANSMISSION
Lynn D. Searcy, Detroit, Mich.
Application June 22, 1937, Serial No. 149,643
5 Claims. (Cl. 74—198)



1. A power transmission comprising in combination a driving member and a driven member each provided with a power plate member, and a plurality of circumferentially aligned power transmitting bearing members adjustably and rotatably operating between said plates; said power bearings each provided with an adjustable axis for its rotation thereon, and means for simultaneously adjusting all of said axes, for varying the amount of friction between said power bearings and said power plates and thus varying the amount of power transmitted from the driving to the driven member.

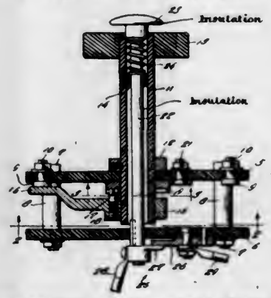
2,163,067
RESISTANCE ELEMENT
Newton C. Schellenger, Elkhart, Ind., assignor to Chicago, Telephone Supply Co., Elkhart, Ind., a corporation of Indiana
No Drawing. Application December 18, 1935, Serial No. 55,005
6 Claims. (Cl. 201—76)

1. In a resistance element, in combination, carbonaceous resistance material, a resinous binder for said material, the resistance of said material and binder increasing with increases in humidity, and a stabilizing agent associated therewith, said agent having a resistance which decreases with increases of humidity, said increases and decreases in resistance substantially counterbalancing each other.

2,163,068
PROCEDURE FOR THE IMPROVEMENT OF TEXTILES
Kurt Stickdorn and Richard Hueter, Dessau-Rosslau, Anhalt, Germany, assignors to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany, a corporation of Germany
No Drawing. Application February 15, 1936, Serial No. 64,177. In Germany February 16, 1935
8 Claims. (Cl. 28—1)

4. The method of preparing textile material for subsequent working which comprises sizing the same with a size consisting principally of material of the group consisting of alcohols obtainable by the reduction of natural resin materials of the group consisting of copal, dammar resin, colophony, abietic acid and talloil-resin acid and the esters and ethers of said alcohols together with a non-drying organic solvent, said size being easily removable upon washing in aqueous soap solution.

2,163,069
HIGH VOLTAGE NONARCING SELECTOR SWITCH
Louis C. Stringer, Chicago, Ill., assignor to Electronics Supply Corp., a corporation of Delaware
Application April 29, 1937, Serial No. 139,822
1 Claim. (Cl. 200—4)



A selector switch of the class described comprising a pair of spaced parallel plates of insulation material, a plurality of circumferentially

spaced contact buttons mounted on the under side of the top plate, said contact buttons including individual binding posts to accommodate power take-off wires, a metallic ring secured to the central portion of the under side of said top plate, said top plate having an opening in alignment with the opening of said ring, said ring being provided on its under side with radial keeper notches, a tubular handle mounted for rotation in the apertured portion of said top plate and extending through and beyond said ring and terminating short of the bottom plate, a collar secured to the lower end of said handle, said collar being provided with a radial contact finger selectively engageable with said buttons and said finger being confined between said plates, a spring pressed detent carried by said collar and engageable with said keeper notches, the keeper notches being in radial matching alignment with the contact buttons, a circuit make and break device comprising a stationary contact member secured to the bottom plate, a conductor wire electrically connected therewith, a movable contact member cooperable with said first named member, a second conductor wire connected with said movable contact member, a rod slidably mounted in said bottom plate, said movable contact member being mounted on said rod, said rod extending upwardly through the tubular handle, said handle and said rod being provided with closely allied operating knobs, a stop shoulder mounted in said handle, a coiled spring on said rod engageable with said stop shoulder and the adjacent knob whereby to maintain the movable contact member in normal electrical connection with the stationary member.

2,163,070

REMOTE CONTROL DUAL BUTTON HAND SWITCH

Louis C. Stringer, Chicago, Ill., assignor to Electronics Supply Corp., a corporation of Delaware

Application April 29, 1937, Serial No. 139,823
1 Claim. (Cl. 200—157)



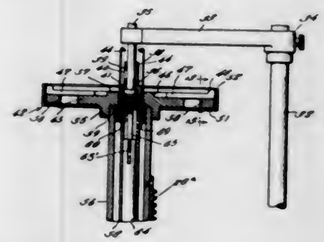
In a remote control hand style electric tool holder of the class described, a hand grip longitudinally bored, a pair of resilient fingers mounted in said hand grip, current control wires connected with the respective fingers, said fingers being disposed in opposed parallelism, the inherent resiliency of the fingers serving to spread the same apart, a pair of substantially U-shaped contact clips on the free ends of said fingers, the clips being interlocked into normal contacting relationship, a pair of control finger buttons attached to the free ends of said fingers, said hand grip having passages therein for said buttons.

2,163,071

BUTTON FORMING AND WIRE INSERTING MACHINE

Louis C. Stringer, Chicago, Ill., assignor to Electronics Supply Corp., a corporation of Delaware

Application May 6, 1937, Serial No. 141,149
8 Claims. (Cl. 176—3)



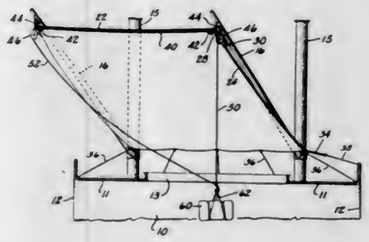
1. A method of casting and constructing a button and wire assembly for use in an incandescent bulb mount consisting in first holding one end of the conventional glass rod in the path of a source of melting heat; secondly, compressing the melted end of the rod between approachable and separable mold units; third, mechanically inserting a multiplicity of filament supporting wires in the peripheral portion of the button; and, finally, simultaneously subjecting the anchored wire ends to the clenching action of a press to bend the wires into relative parallel filament supporting relationship.

2,163,072

HATCH TENT

Vincent J. Spelman, Northport, Long Island, N. Y.

Application May 8, 1937, Serial No. 141,581
3 Claims. (Cl. 135—1)



1. A hatch tent comprising a generally prismatic structure of weatherproof material having a closed end, an open end and inclined sides meeting in a weather-tight ridge, a relatively small opening adjacent to the ridge and means for securing the ridge at its ends to booms substantially at the level of the usual blocks on said booms, said ridge being drawn taut therebetween, said opening being adapted to admit and be substantially closed by a block whereby cargo may be manipulated under cover by cables operating at the ends of the ridge in said blocks, said cables thus operating at all times so as to be substantially free from rubbing action on any portion of said tent.

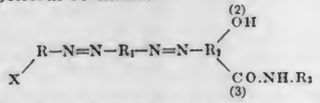
2,163,073

AZO DYESTUFFS INSOLUBLE IN WATER AND FIBER DYED THEREWITH

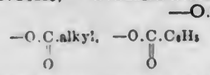
Erwin Thoma, Frankfort-on-the-Main-Hochst, and Wilhelm Seidenfaden, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 23, 1937, Serial No. 132,632. In Germany April 2, 1936
10 Claims. (Cl. 260—188)

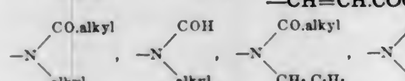
1. The water-insoluble azo-dyestuffs of the following general formula:



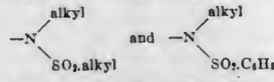
wherein the azo-groups stand in para-position to each other, R, R_1 and R_3 stand for members of the group consisting of radicals of the benzene and naphthalene series R_2 stands for a radical of the naphthalene series and X for a member of the group consisting of: —CO.alkyl, —CO.C_6H_5, —CH=CH.CO.C_6H_5, —O.CH_2.CO.alkyl, —O.CH_2.CO.C_6H_5,



COO.alkyl, —COO.C_6H_5, —CH_2.COO.alkyl, —CH=CH.COO.alkyl,



—SO_2.alkyl, —SO_2.C_6H_5, —SO_2.CH_2.C_6H_5, —CH_2.SO_2.alkyl, —CH_2.SO_2.C_6H_5, —SO_2.O.C_6H_5, —O.SO_2.C_6H_5,



yielding, when produced on the fiber, garnet to black dyeings of good fastness properties.

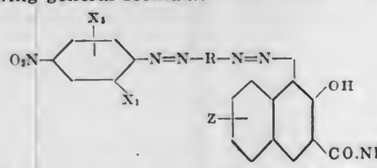
2,163,074

AZO DYESTUFFS INSOLUBLE IN WATER AND FIBER DYED THEREWITH

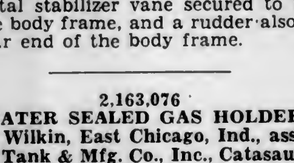
Erwin Thoma, Frankfort-on-the-Main-Hochst, and Wilhelm Seidenfaden, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 23, 1937, Serial No. 132,648. In Germany April 2, 1936
10 Claims. (Cl. 260—188)

1. The water-insoluble azo-dyestuffs of the following general formula:



wherein the azo-groups stand in para-position to each other, R and R_1 stand for members of the group consisting of radicals of the benzene and naphthalene series, X_1 stands for a member of the group consisting of



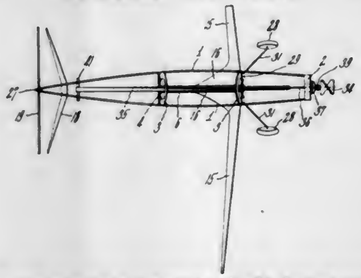
X_3 for a member of the group consisting of hydrogen, halogen and alkoxy and Z for a member of the group consisting of hydrogen, halogen and alkoxy, yielding, when produced on the fiber, garnet to black dyeings of good fastness properties.

2,163,075

TOY AIRPLANE

Thomas D. Wildon, Reading, Mass., assignor to Paul K. Guillow, Wakefield, Mass.

Application June 16, 1937, Serial No. 148,531
14 Claims. (Cl. 46—76)



1. A toy airplane having a body frame consisting of a nose block and a plurality of transverse formers spaced apart from one another longitudinally, two longerons secured to respectively opposite sides of the nose block and formers and to one another at the tail end, a longitudinal wing root support extending from one former to the next in the longitudinal middle of the structure, two wings consisting each of a spar at the leading edge of the wing and a cover fabric secured thereto, said wings being fastened at their root ends to the wing root support and abutted against the rear side of the forward former, a horizontal stabilizer vane secured to the rear end of the body frame, and a rudder also secured to the rear end of the body frame.

2,163,076

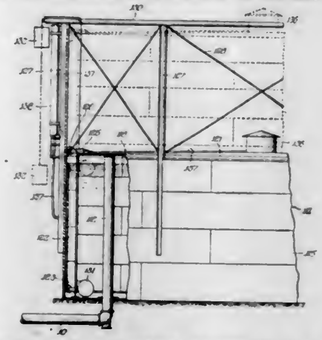
WATER SEALED GAS HOLDER

Lester A. Wilkin, East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa., a corporation of Delaware

Application May 24, 1937, Serial No. 144,444
1 Claim. (Cl. 48—176)

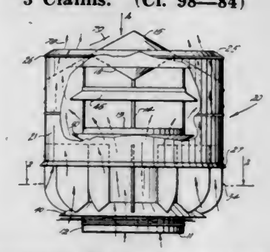
In a gas holder, a tank containing a sealing liquid, an inverted holder bell adapted to have vertical movement with respect to said tank, said holder bell having a portion of the side walls thereof immersed in said liquid forming a seal therefor, guiding means provided by said tank for guiding and controlling the vertical movements of said holder bell, counter-balancing means for counter-balancing the weight of said holder bell including floats secured to the lower end of said holder bell and a plurality of adjustable weights connecting with the top thereof, and means compensating for the gradual de-

crease in the buoyant effect of the liquid on said holder bell as the same moves upwardly, whereby said holder bell will have uniform operating pressure throughout the extent of its movement,



said compensating means comprising a liquid container supported by the holder bell and by said guiding means respectively, and a flexible hose connecting said containers.

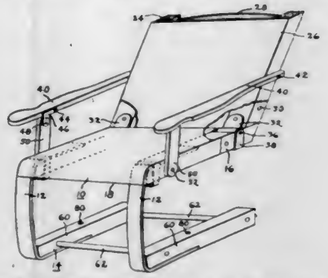
2,163,077
VENTILATOR
Lavett S. Wilson, Los Angeles, Calif.
Application January 31, 1938, Serial No. 187,892
3 Claims. (Cl. 98—84)



3. In a ventilator having a vent pipe, a plurality of posts extending thereabove, a sloping roof supported by the posts and extending beyond the circle of the posts combined with a plurality of vertical radial vanes secured to the vent pipe and terminating below the end of such pipe, a conical air deflector connected to the vent pipe and to the lower edge of the vanes, the apex of the deflector being upwardly, a shell concentric with the vent pipe, the lower portion of the shell being connected to the upper outside edges of the vanes thereby providing a plurality of vertical spaces for upward circulation of air defined by the vanes, the vent pipe and the shell, the shell extending upwardly concentric with the circle of posts and above the extension of the roof and thereby providing an annular air space between the extension of the roof and the upper extension of the shell.

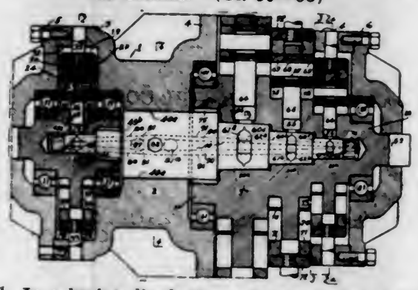
2,163,078
CHAIR
Louis J. Zerbee, Bellefontaine, Ohio
Application June 14, 1937, Serial No. 148,132
5 Claims. (Cl. 155—24)

1. In a device of the character described a U-shaped leaf spring member, a pair of substantially parallel members contacting each a leg of the U-shaped member and extending towards the bight of the U-shaped member, the ends of the parallel members being curved so as to have a radius of curvature less than the radius of curvature of the U-shaped member and means for securing the ends of the legs of the U-shaped members to the parallel members, so that as the load is applied to the parallel members beyond the ends of the legs of the U-shaped members



the curved portion of the parallel members engages the bight of the U so as to decrease the effective length of the resilient portion as the force increases to thereby automatically stiffen the spring member as the load increases.

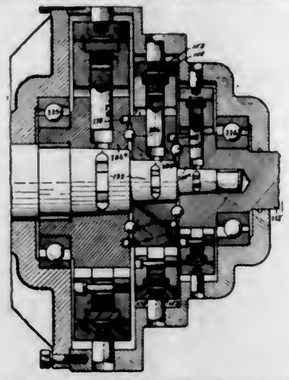
2,163,079
HYDRAULIC TRANSMISSION
Elek K. Benedek, Bucyrus, Ohio
Application May 18, 1935, Serial No. 22,259
18 Claims. (Cl. 60—53)



1. In a hydraulic device, a rotary pump, a plurality of motor stage units, each unit comprising a barrel having a set of radial cylinders, plunger assemblies reciprocable therein, independent reactance means for the assemblies, valve means for the units, means operatively fluid connecting all the units in parallel and with the pump, clutch means operatively interposed between the barrels of adjacent units for mechanically connecting one barrel to the other for driving together in one direction of rotation consequent upon a predetermined rotational speed of one barrel with respect to the other, and for disconnecting the said barrels consequent upon a reduction in the speed of one of said barrels relative to the other.

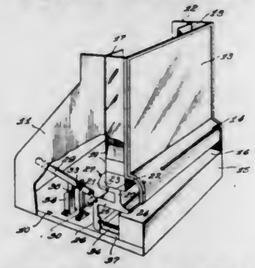
2,163,080
MULTISTAGE PUMP OR MOTOR
Elek K. Benedek, Bucyrus, Ohio
Application July 16, 1935, Serial No. 31,651
4 Claims. (Cl. 121—60)

1. In a multi-stage hydraulic motor, a plurality of reversible rotary radial plunger stage units, each unit comprising a barrel having a set of radial cylinders, plunger assemblies respective to the sets of cylinders and reciprocable therein, reactance means for the assemblies, valve means for the sets of cylinders, clutch means operatively interposed between the adjacent barrels of the units for mechanically connecting the said adjacent barrels for rotation together in either direction of rotation within predetermined rotational speed ranges, and for disconnecting the said adjacent barrels of said units consequent



upon a predetermined speed of one of said adjacent barrels.

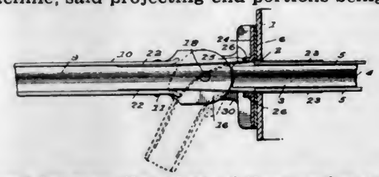
2,163,081
DISPENSING APPARATUS
George A. Blake, New Bedford, Mass.
Application April 27, 1938, Serial No. 204,670
7 Claims. (Cl. 312—63)



1. In a dispensing device for articles of merchandise, a vertical chute adapted to contain a supply of articles to be dispensed, horizontally disposed means for supporting said articles in said chute, a delivery shelf disposed downwardly and forwardly of the lower end of said chute, a member pivoted adjacent the lower end of said chute and having a projection adapted to engage the lowermost article in said chute and remove it therefrom when said member is rocked forwardly, whereby said article is deposited on said delivery shelf, said member having a second projection adapted to engage said article and move it forwardly on said delivery shelf when said member is returned to starting position, and means for rocking said pivoted member.

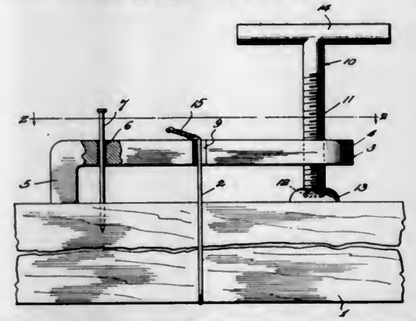
2,163,082
COIN DELIVERY CHUTE
Edward J. Brandt, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application December 24, 1936, Serial No. 117,643
2 Claims. (Cl. 193—2)

1. A coin delivery machine of the character described including a coin chute positioned interiorly of the machine with an end portion adjacent an opening in the end of the machine, said chute including side walls leading inwardly from the opening, a bracket positioned exteriorly of the end of the machine, a spout pivotally connected to the bracket in position to receive coins from the chute, and readily flexible strips connected to the spout and projecting from the end thereof with the projecting end portions extending through the opening in the end of the machine, said projecting end portions being posi-



tioned between the edges of the opening and the outer faces of the side walls of the chute whereby they are held against flexing but permitting flexing of the strips intermediate the end of the spout and the end of the machine.

2,163,083
WIRE TIGHTENER
George W. Clark, Timber Lake, S. Dak., assignor of one-fourth to Julian O. Rostvedt, Bismarck, N. Dak.
Application October 19, 1937, Serial No. 169,883
2 Claims. (Cl. 254—77)



2. As a new article of manufacture, a wire tightener including an elongated body having an integral depending rigid fulcrum at one end, and a screw at the other end rotatable for swinging the body upwardly about the fulcrum for tightening a loop through which the body passes.

2,163,084
COMB
Harry W. Clemens, Lebanon, Pa.
Application October 28, 1938, Serial No. 237,571
3 Claims. (Cl. 132—11)



1. A comb having a straight body formed with arcuately curved ends, one portion of the said

body having coarse teeth extending outwardly therefrom, and the other portion thereof having relatively fine teeth extending outwardly adjacent to the said coarse teeth, the teeth at either extremity of the said body being progressively shortened to merge into the curved ends of the body to define semi-circular ends.

2,163,085

FLAMEPROOFED CELLULOSIC MATERIALS

Martin Eli Cupery, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 15, 1938, Serial No. 230,147
14 Claims. (Cl. 91—68)

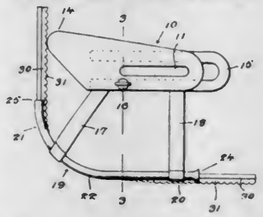
1. A product comprising a cellulosic material and, in sufficient amount to act as a fire retardant therefor, the reaction product of phosphorus pentoxide with anhydrous liquid ammonia.

2,163,086

SEWING MACHINE WORK GUIDE ATTACHMENT

Michael Curreri, Plainfield, N. J.

Application October 5, 1938, Serial No. 233,462
6 Claims. (Cl. 112—137)



5. A work guide and support attachment for sewing machines and the like comprising a base member having a slot-like opening formed therein adapted to receive threaded fastening means for adjustably slidingly mounting said member on a sewing machine base plate, a projecting blunt nose-formation extending from a side of said member for guiding edge portions of material being sewn; a U-shaped fork horizontally slidingly received in channels formed in said member; means for firmly but adjustably holding said fork relative to said member comprising a thumb screw mounted in said member and engageable, upon occasion, with portions of said fork; essentially resilient standards carried on said fork and movable therewith; and a work guide mounted on said standards, said work guide comprising a tube extending from a relatively raised position in front of said base member to a relatively lower position adjacent said nose-formation, said tube being slit throughout its length in one side, flared at the ends, and disposed whereby the slit faces toward the front at the raised end and faces the nose-formation at the opposite end.

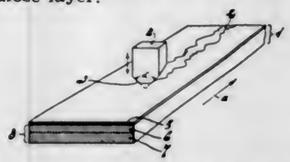
2,163,087

MECHANICAL RECORDING

Jan Hendrik de Boer, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application May 24, 1937, Serial No. 144,498
In Germany February 16, 1937
9 Claims. (Cl. 274—46)

1. A method of making a band-shaped carrier for a mechanically-recorded and optically-reproducible vibration record from a band of a cellulose derivative capable of being saponified, comprising the steps of saponifying a portion of said band to form a cutting layer of regenerated cellulose having a depth sufficient for mechanical recording, and providing a thin layer of opaque material at the cutting surface of said regenerated cellulose layer.



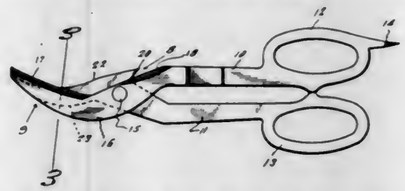
7. In a carrier for mechanically-recorded and optically-reproducible vibration records, a unitary supporting-recording layer having a supporting layer portion of a saponifiable cellulose derivative and a surface layer portion of regenerated cellulose of a thickness sufficient for mechanical recording.

2,163,088

DOWNSPOUT CUTTING SHEARS

George F. Grant, Washington, D. C.

Application July 27, 1937, Serial No. 155,974
4 Claims. (Cl. 30—258)



1. A tool of the class described comprising a lever formed at its outer end with spaced parallel jaws, the jaws being provided on corresponding opposed faces with longitudinally spaced pairs of cutting edges, a second lever cooperable with the first-named lever and having a shank pivotally mounted between said jaws, said second lever terminating in a master jaw swingable between the first-named jaws, said master jaw having a member cooperable with one pair of cutting edges, and having embodied therein spaced parallel cutting edges coinciding with the remaining pair of cutting edges on the first-named jaws.

2,163,089

CLEAT

Richard H. Hagerty, Biscoe, Va.

Application October 19, 1937, Serial No. 169,855
1 Claim. (Cl. 36—59)



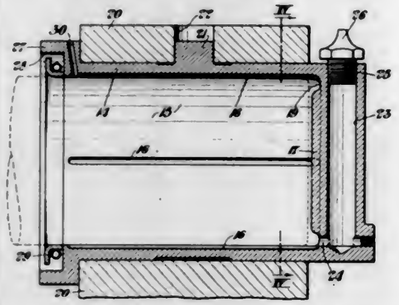
A device of the character described, comprising, a plate adapted for attachment to the sole of a shoe or the like and fashioned with front, rear and side members, said members formed on the outer sides of said plate, and reenforcing elements secured to the inner and outer faces of said members and said plate respectively at the jointures thereof and each fashioned with an outer arcuate face extending the entire length of the jointure.

2,163,090

JOURNAL BEARING LINING

Robert J. Harry, Alliance, Ohio, assignor to The Alliance Machine Company, a corporation of Ohio

Application January 15, 1936, Serial No. 59,240
2 Claims. (Cl. 308—240)



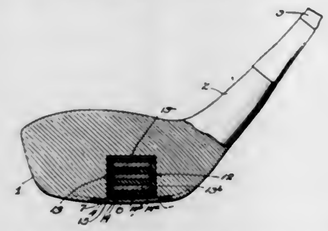
1. A journal bearing lining comprising a unitary tubular body having its inside finished to provide a cylindrical journal bearing surface, said body having an open end through which a journal may pass to said cylindrical bearing surface and an integral closed end having its inside finished to provide a flat bearing surface to take the thrust of a journal carried by said cylindrical bearing surface, the side wall of said body being relatively thin and adapted to be supported by a bearing housing and the wall of said closed end of the same being relatively thick so as to be self-supporting and integrally including an internal lubricant reservoir that communicates with both said bearing surfaces and which has sufficient capacity to supply the latter with lubricant for an appreciable operating period when filled with lubricant, said wall of said closed end being adapted to project free from a bearing housing supporting said side wall and said reservoir being provided with an externally accessible inlet, said body including an annular lubricant seal retaining means surrounding said open end.

2,163,091

ADJUSTABLE WEIGHTING DEVICE FOR GOLF CLUB HEADS

Stanley S. Held, Louisville, Ky., assignor to Hillerich & Bradsby Co., Louisville, Ky., a corporation of Kentucky

Application December 19, 1938, Serial No. 246,725
10 Claims. (Cl. 273—77)



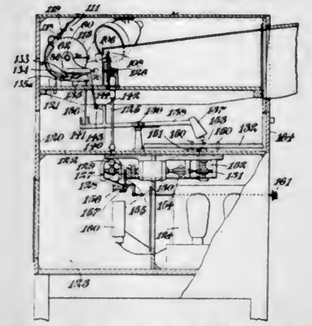
1. An adjustable weighting device for golf club heads, comprising a cup member of live rubber incorporated in and secured to the material of said head and opening into a wall thereof, and a removable disk member frictionally engaging the inner wall of said cup member to provide a weight increment to determine and vary the balance of the club head in respect to the club shaft.

2,163,092

CINEMATOGRAPH APPARATUS

Edward Walter Hobbs, Pinner, England

Application October 15, 1937, Serial No. 169,269
In Great Britain January 27, 1937
2 Claims. (Cl. 88—16.2)



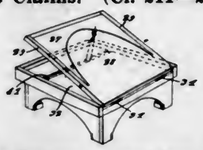
1. Apparatus for cinematograph display of a picture sequence formed in a plurality of rows on a sheet, comprising a sliding carriage for the sheet, a viewing screen, projection means for directing light reflected from the pictures on to said screen, means for moving the carriage step-by-step to bring the individual pictures in each row successively into register with the projection means, means for reversing the step-by-step movement at the end of each travel of the carriage and means for advancing the picture sheet transversely in order to bring the rows successively into register with the projection means, a sound record carrier, a pick-up device for exploring a sound record on said carrier, means connecting said pick-up device to said sliding carriage whereby said pick-up is brought to a starting position by movement of the carriage to one end of its travel and means for reproducing sound signals provided by said pick-up device.

2,163,093

DISPLAY FIXTURE

Henry A. Jenkins, Fayetteville, N. C.

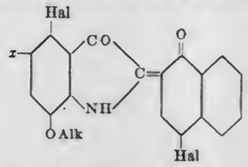
Application September 22, 1937, Serial No. 165,206
3 Claims. (Cl. 211—2)



1. A display fixture comprising a body frame formed with a permanent bed, a rack having sections swingably interfitting each other, hinges swingably connecting one of said sections to the body frame, the other of said sections being cut and shaped for effecting a reversible prop for the section hinged to the frame and engageable with the permanent bed when in reversed positions to the said hinged section, and a swingable weight element carried by the reversible prop section and movable through the permanent bed when said sections are in the same plane with each other and resting flat against the said permanent bed.

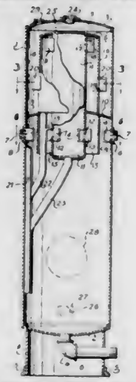
2,163,094
INDIGOID DYESTUFFS
Eduard Kambli, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application October 7, 1936, Serial No. 104,544. In Switzerland October 14, 1935
12 Claims. (Cl. 8—28)

1. Indigoid dyestuffs of the general formula



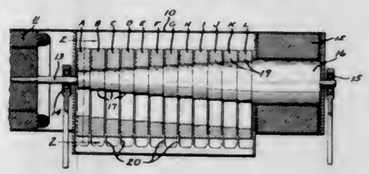
wherein x represents a member of the group consisting of hydrogen and halogen, which dyestuffs are blue powders dissolving in concentrated sulfuric acid to green solutions and yielding on cotton very fast blue prints which are particularly fast to washing, chlorine and light.

2,163,095
OIL AND GAS SEPARATOR
Edward C. Kopp, Fort Worth, Tex.
Application March 21, 1938, Serial No. 197,233
5 Claims. (Cl. 183—2.7)



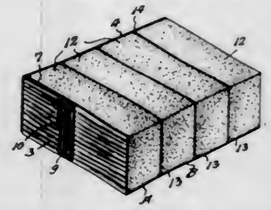
2. In combination with an oil and gas separator comprising a main tank having a concentrical arrangement of substantially vertical cylinders in the upper part thereof forming annular compartments, the central cylinder depending below the others and having its bottom closed, a top for the said cylinders spaced from the dome of the said tank closing the upper ends of the said cylinders forming a chamber thereabove, a transverse partition extending between said tank and the lower depending porends of the said cylinders forming a chamber tion of the said central cylinder and closing the bottoms of said annular compartments, louvered openings in the said central cylinder below said partition and other louvered openings in each of the cylinders above said partition providing communications between the said compartments, louvered inlet openings to said tank below the said partition, a cylindrical baffle depending from the said partition between the said inlet openings and said first named openings, drain tubes from each of the said compartments into the said tank, a gas outlet from the uppermost portion and an oil outlet from the lower portion of said tank.

2,163,096
MUSICAL SYSTEM
Andrew A. Kucher, Dayton, Ohio
Application July 21, 1936, Serial No. 91,726
10 Claims. (Cl. 84—1)



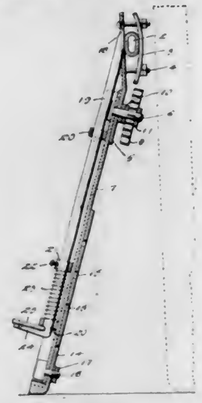
1. The combination comprising a plurality of wave form patterns, a sound reproducing device, means for transmitting impulses from said wave form patterns to said sound reproducing device, and means for causing movement of the wave form patterns relative to said transmitting means, said last named means consisting of a shaft, means for driving the shaft, and a magnetic connection between the said shaft and the wave form patterns.

2,163,097
BRICK CONTAINER
Walter D. Magruder and Glenn L. Ecrement, Canton, Ohio
Application April 22, 1937, Serial No. 138,415
1 Claim. (Cl. 206—46)



A protective container blank of corrugated material comprising a main body portion and side portions adapted to be folded along intersecting fold lines to vertical position respecting said main body portion, adjacent of said side portions being separated along one of said fold lines whereby one of said side portions is provided with a flap portion adapted to be positioned vertically relative to said side portion and substantially parallel to the other of said side portions when said side portions are positioned vertically respecting said main body portion, said flap portion being provided with a slot extending at an angle from the line of separation between said side portions, the portion between said slot and the outer edge of said flap constituting a tab portion in length dimension equal to the width of the adjacent side portion, the other of said side portions being provided with a slot extending from the edge thereof inwardly, and said latter side portion and said flap portion being adapted to interlock with one another through cooperation of their respective slots when said side portions are positioned vertically respecting said main body portion and with the tab portion outside of the side portion, the corrugations of said material extending longitudinally of the tab portion and said latter side portion, whereby said latter side portion and said flap portion will reinforce one another when the same are in interlocked condition and said tab portion will be reinforced against breakage thereof.

2,163,098
SUPPORT DEVICE
Joseph J. Massalski, Clinton, Mass.
Application November 25, 1938, Serial No. 242,377
4 Claims. (Cl. 280—298)



1. A device of the character described, comprising, a plate adapted to be secured to the frame of a bicycle and fashioned with an inclined slot adjacent its upper edge and with an outwardly and downwardly inclined lower section, an arm pivoted to said lower section and operable to raised and lowered positions relative to the frame, a spring fixed to said lower section and connecting said arm to said plate and operable for moving said arm from lowered to raised position, and a spring pressed latch rod slidably mounted on said arm and extending into said slot to maintain said arm in lowered position against the tension of said spring whereby to support said bicycle in an upright position, said rod movable from within said slot whereby to effect automatic raising of said arm by said spring.

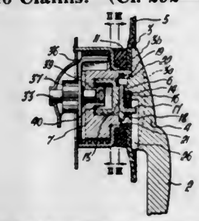
2,163,099
PROCESS OF PREPARING N-METHYL BETA HYDROXYETHYLAMINES
Robert William Maxwell, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 18, 1938, Serial No. 202,779
17 Claims. (Cl. 260—584)

1. Process which comprises dissolving 144 parts of paraformaldehyde in 420 parts of bis(β-hydroxyethyl) amine at about 100° C., adding 220 parts of 85% aqueous formic acid and heating at about 100° C. until evolution of carbon dioxide ceases, and isolating the N-methyl-N,N-bis-(β-hydroxyethyl) amine by fractional distillation.

2,163,100
PRODUCTION OF FINELY DIVIDED SODAMIDE
Clemmy O. Miller and Richard G. Roberts, Chicago, Ill., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 13, 1934, Serial No. 743,841
13 Claims. (Cl. 23—190)

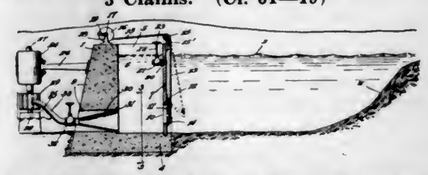
4. A process for producing sodamide which comprises reacting metallic sodium with anhydrous liquid ammonia in the presence of a catalyst selected from the group consisting of iron salts and organic iron compounds, and recovering the product.

2,163,101
OPERATING HANDLE FOR DOORS, WINDOWS, AND THE LIKE
Roy William Newton, Collingwood, Victoria, Australia
Application November 24, 1937, Serial No. 176,360
In Australia July 20, 1937
16 Claims. (Cl. 292—348)



1. A handle assembly for a vehicle body having an inner layer of trim, comprising a handle terminating at its inner end in an enlarged relatively thin base having a flat surface adapted to lie substantially flush with the inner face of said trim, said base having an integral cylindrical boss of materially less diameter adapted to project through an aperture in the trim and provided with preformed longitudinal splines and intervening grooves, a handle-driven member adapted to be mounted at the opposite face of said trim and also having preformed longitudinal splines and intervening grooves adapted to mate with the corresponding splines and grooves of said boss, the said mating splines and grooves adapted to releasably interfit in a locality outwardly of said trim and said handle base, and means for releasably locking said boss and member together.

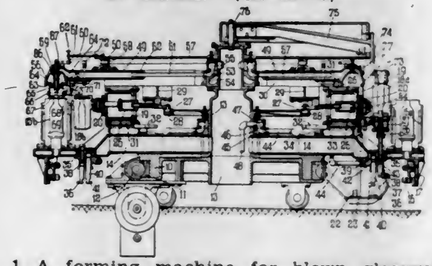
2,163,102
HYDROELECTRIC POWER PLANT
Henry Odill, Norway, Mich.
Application November 27, 1937, Serial No. 176,878
3 Claims. (Cl. 61—19)



1. In a hydro-electric plant, a dam for impounding water of a running stream and forming an artificial lake of predetermined depth, said dam having a body portion for extending across the stream and a plurality of walls extending from the body portion in an upstream direction and provide a plurality of water compartments, rear walls between the side walls of the water compartment adjacent the upstream ends thereof, each rear wall being formed near its lower end with a water passage through which water of the lake may flow to fill the chamber, closures for the water passages of said rear walls having actuating means accessible from the top of the dam, valve-controlled by-passes being provided adjacent upper ends of the rear walls whereby water of the lake may be initially fed into the compartments to a depth permitting easy opening of the closures for the water passages, generators having paddle wheels for operating the

same mounted below the dam above the level of water below the dam, and nozzles extending from the water compartments through the body portion of the dam adjacent the bottoms of the water compartments and having extensions at their outer ends extending above the level of water below the dam in position for directing jets of water against the paddle wheels for driving the same.

2,163,103
FORMING MACHINE FOR GLASS BOTTLES, JARS, AND THE LIKE
Thomas Finney Pearson, Pontefract, England, assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a corporation of New York
Application November 18, 1936, Serial No. 111,517
In Great Britain November 30, 1935
11 Claims. (Cl. 49—5)



1. A forming machine for blown glassware comprising a rotatable table, a series of parison moulds in circumferentially spaced relation thereon, a series of blow moulds in circumferentially spaced relation thereon and mounted for movement along a path non-coincident but concentric with the path of travel of the parison mould, a slide member, a blow head and neck mould assembly adapted to be secured to and carried by one of the parison moulds of said series when said mould is in closed position, means for moving the slide independently of said assembly when the latter is so supported, means associated with the slide member for supporting said assembly and a parison suspended in the neck mould when said parison mould opens, means for moving the slide member and the assembly supported thereby relative to said parison mould and into a position in alignment with one of the blow moulds of said series, and means for closing said blow mould about the suspended parison upon completion of such movement.

2,163,104
CHEMICAL COMPOUND
Paul L. Salzberg, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1936. Serial No. 116,435
18 Claims. (Cl. 21—5)

1. A salt of an inorganic acid having a fluorine-containing anion with a polymeric amino-nitrogen-containing substance, which polymer is insoluble in water and in 5 per cent aqueous ammonia but soluble in 2 per cent aqueous acetic acid, and is capable of being formed into a coherent film.

3. A fluosilicate of a polymeric amino-nitrogen-containing substance, which polymer is insoluble in water and in 5 per cent aqueous ammonia but soluble in 2 per cent aqueous acetic acid, and is capable of being formed into a coherent film.

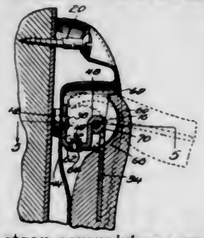
11. Process of protecting fabrics from the ravages of insects, such as moths, which comprises impregnating said fabric with a solution of a fluosilicate of a polymeric amino-nitrogen-containing substance, which polymer is insoluble in water and in 5 per cent aqueous ammonia but soluble in 2 per cent aqueous acetic acid, and is capable of being formed into a coherent film, and heating the impregnated fabric at a temperature of at least 100° C., until dry, to insolubilize the fluosilicate.

2,163,105
PIN LIFTING IMPLEMENT
Lyle Forrest Schipper, Edgemont, S. Dak., assignor to Guy H. Stickney, Edgemont, S. Dak.
Application March 22, 1938, Serial No. 197,455
2 Claims. (Cl. 254—29)



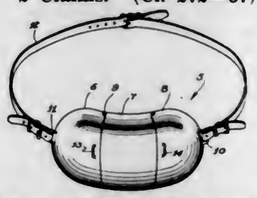
1. In an implement of the class described, a main frame of bar-like metal including an elongated shank having a front end yoke of hook form extending forwardly therefrom and to one side thereof, a bearing arm extending from the opposite end of the shank to the same side as the yoke and in the plane of the latter, a shaft having its opposite ends journalled in said yoke and arm, respectively, and extending at one end through the yoke and at the other end beyond said arm, a concave wheel fast on said shaft within said yoke, a lever pivoted on said yoke for swinging movement along side the shank toward and from the same and having a front end yoke similar to the first mentioned yoke disposed with its open side opposite the open side of the latter, a second concave wheel rotatably mounted in the second mentioned yoke to be swung by said lever toward and from the first mentioned wheel, a crank on said other end of said shaft, and means to detachably and yieldingly connect said lever to said shank.

2,163,106
ASSIST STRAP
Louis F. Schmidt, Chicago, Ill.
Application August 9, 1937, Serial No. 158,191
10 Claims. (Cl. 105—354)



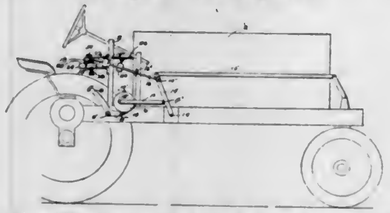
1. An assist strap comprising a grooved support, a grip normally lying within the groove, a pivotal connection between one end of the grip and the support, a second pivotal connection between said one end of the grip and the support arranged at right angles to the first pivotal connection, said pivotal connections being so constructed and arranged as to provide a universal mounting for the grip, and resilient means cooperable with the grooved support and the assist strap for urging the latter into the groove, said groove being of such depth as to restrain the assist strap from accidental lateral displacement, but permitting the assist strap to be swung laterally thereof about the axis of one of said pivotal connections when the assist strap is pivoted outwardly of the groove about the axis of the other pivotal connection.

2,163,107
ABDOMINAL REDUCER
Adrienne Shatto and Albert Jardot, New York, N. Y.
Application June 15, 1936, Serial No. 85,356
2 Claims. (Cl. 272—57)



1. A reducing appliance to be applied and operated upon the abdominal region of the body of a person in a supine reclining position, said appliance comprising a unitary articulate sectional body element of substantial weight, said element as a combined unit being concaved longitudinally and transversely throughout its inner side which is made to supportingly contact the adjacent underlying portion of the body of the user, and an attaching belt secured to the opposite ends of the said weighted body element and adapted to substantially encircle the adjacent body portion of the user whereby to attach the weighted element with freedom of positioning and manipulating movement.

2,163,108
AUTOMATIC SPEED CONTROL
Dallas V. Smith, Mount Pleasant, Iowa
Application July 6, 1938, Serial No. 217,807
1 Claim. (Cl. 180—77)



A throttle lever operating means for tractors having a power implement lifting means including means associated with said tractor for positioning the said lifting means in two normally stationary positions, said throttle operating means comprising two interconnected link members arranged in slidable relationship with each other, one of said link members being connected with the implement lifting means and the other said link member being connected with a throttle operating lever, adjustable stop means carried by one of said link members for moving the other said link member after a predetermined travel of the first mentioned link member for positioning the said throttle operating lever at a pre-set point in each of the two normally stationary positions of the implement lifting means, whereby the throttle will be moved toward closed position when the lifting means is in position for disengagement of the implements and open the throttle when the lifting means is in position for engagement of the implements.

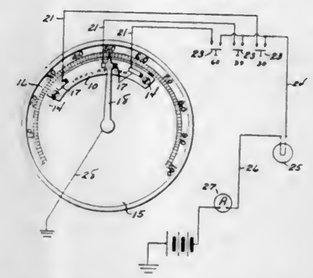
2,163,109
CHEMICAL PROCESS AND PRODUCTS THEREFROM
Edgar W. Spanagel, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 3, 1936, Serial No. 72,668
29 Claims. (Cl. 260—338)

1. Process for the preparation of a lactone of a saturated aliphatic hydroxyether acid having a unit length of at least eight which comprises heating under vacuum a linear polyester of said acid.

2,163,110
SUBSTITUTED PERINAPHTHINDANDIONES
Fritz Straub and Peter Pieth, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application May 16, 1938, Serial No. 208,320. In Switzerland May 18, 1937
5 Claims. (Cl. 260—511)

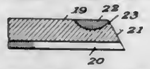
1. Substituted perinaphthindandiones which contain at least one salt-forming group as substituent in the naphthalene nucleus.

2,163,111
AUTOMATIC SPEED ALARM SWITCH
Bruno P. Striemer and Gene Fisher, St. James, Minn.
Application April 4, 1938, Serial No. 199,979
1 Claim. (Cl. 200—56)



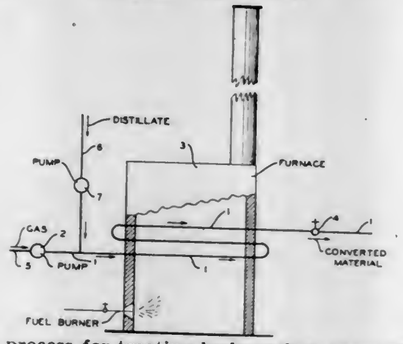
In an automatic speed alarm for motor vehicles, the combination of a speedometer having a speed responsive pointer and a dial displaying an arcuate scale having graduations forming speed indications, the pointer on the speedometer forming the movable member of a circuit closer, a pair of arcuate plates of insulating material secured to the dial inwardly of and concentric with said scale, said plates being disposed in superposed position to provide a switch base, and a plurality of arched spring contacts each having a free end bearing upon the outer face of the uppermost plate and having the opposite end directed to extend between the plates and clamped stationary by the plates, said contacts each forming the fixed member of a circuit closer with which the pointer has wiping engagement, the arched portion of each contact yielding as the pointer passes thereover to permit free movement of the pointer at all times.

2,163,112
HAIR CURLER
Isaac Leo Wolkow, Louisville, Ky.
Application February 27, 1939, Serial No. 258,793
1 Claim. (Cl. 132—33)



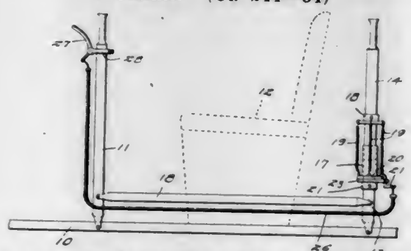
The combination with a curling iron including a shank having a longitudinally extending groove and an arcuate recess forming an edge portion, of a hairpin including opposed arms, one arm of the hairpin adapted to be received in the longitudinally extending groove of the shank while the opposite arm is formed with a recess to receive the edge portion formed by the arcuate recess in the shank.

2,163,113
GAS CONVERSION PROCESS
Malcolm P. Youker, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Application October 14, 1935, Serial No. 44,917
1 Claim. (Cl. 196—9)



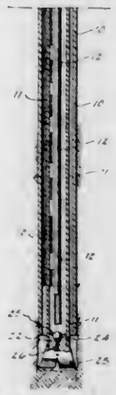
A process for treating hydrocarbon gases with hydrocarbon liquids to produce gasoline and a synthetic hydrocarbon crude oil, which comprises treating under elevated pressure and a temperature within the range of 900° F. and 1200° F. a mixture of substantially pure butane and a kerosene distillate having a carbon residue of less than 1% admixed in proportions by weight of twenty parts of butane with one part of kerosene distillate.

2,163,114
STUDENT'S CONTROL STICK FOR AIRPLANES
James C. Ziegler, Panama, C. Z.
Application August 10, 1938, Serial No. 224,177
2 Claims. (Cl. 244—84)



1. A student's control stick for airplanes comprising upper and lower aligned sections, a sleeve coupling the sections together at their meeting ends, springs connected to the upper section and to the sleeve tending constantly to slide the sleeve upwardly onto the upper section to clear the lower section and disconnect the upper section from the lower section, a latch engaging said sleeve and pivotally mounted on the lower section for holding said sleeve releasably in operative position, means for moving said latch to release the sleeve, and a single spring connected to both sections of the stick and tending constantly to hold both sections assembled.

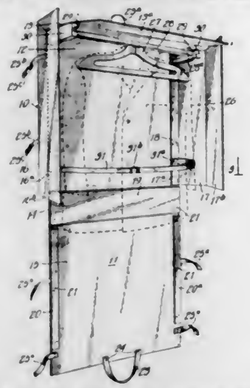
2,163,115
APPARATUS FOR CLEANING AND PUMPING OIL WELLS
Fred G. Beckman, Muskogee, Okla.
Application April 3, 1937, Serial No. 134,794
2 Claims. (Cl. 255—24)



1. An apparatus for cleaning a well and lifting the liquid therein to the surface including, a rotatable well tubing having its lower end immersed in the liquid standing in the well, said tubing having a liquid inlet in its lower end, a gravity operated check valve adapted to close said inlet and arranged to be unseated by the liquid in the well, a conductor mounted within the tubing in a fixed position with relation thereto and having its lower end disposed above the check valve whereby the upward movement of the check valve is limited by said conductor, said lower end of the conductor having outlet openings therein, and means for delivering a pressure fluid into the conductor so that said pressure fluid may enter the tubing to close the check valve and lift the liquid in said tubing.

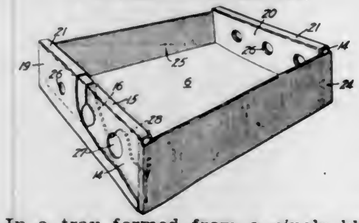
2,163,116
LUGGAGE
Harry Derman, Laurelton, Long Island, N. Y.
Application July 9, 1938, Serial No. 218,312
8 Claims. (Cl. 206—7)

1. An article of manufacture of the class described comprising a container adapted for packing, transportation and storage of articles of apparel, said container comprising foldably related back, top, bottom, side and front wall parts, the back and front wall parts being relatively large and of substantially the same dimensions, the top, bottom and side walls being relatively narrow and all of substantially the same width, said front wall being foldable with respect to one of said narrow walls, the other three of said narrow walls including inwardly foldable flaps continuous with the free edges thereof throughout the length of said edges and arranged within the front wall when the container is closed, all of said wall parts including said flaps being extensible to a flat sheet when the container is fully opened, adjacent edges of the top, bottom and side walls



being unattached when the container is closed, one of said last mentioned narrow walls having means thereon for detachably mounting garments within the container, and means extending from the container adjacent the last named narrow wall for supporting said container.

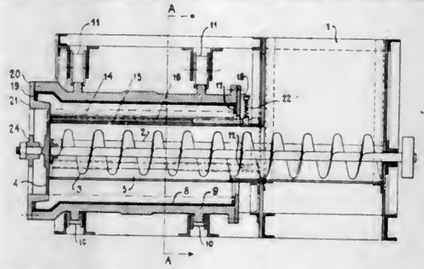
2,163,117
TRAY
Wil Evans and Albert F. Knaggs, Oakland, Calif., assignors to California Container Corporation, Emeryville, Calif., a corporation of Delaware
Application November 3, 1934, Serial No. 751,352
8 Claims. (Cl. 229—34)



1. In a tray formed from a single blank, a bottom, an end flap hinged to said bottom and folded inwardly and downwardly along parallel creases to form an outer end wall, an inner end wall and a flat top, a side flap hinged to said bottom and folded inwardly and downwardly along a single crease to form an outer side wall and an inner side wall terminating adjacent said bottom, the portion of said inner side wall adjacent said bottom being long enough to exert pressure against the bottom of said inner end wall, and means for locking said side and end walls in upright position.

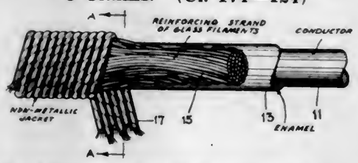
2,163,118
APPARATUS FOR MAKING HOLLOW BODIES OF PLASTIC MATERIAL
Erik Valdemar C:son Fejmert, Nykoping, Sweden
Application September 28, 1935, Serial No. 42,584
In Sweden December 14, 1933
2 Claims. (Cl. 25—30)

2. A machine for making hollow bodies of plastic material comprising, in combination, a horizontally disposed rotatable casing, a horizontally disposed mold within the casing and rotatable therewith, a stationary magazine adjacent one end of the casing, a stationary feed tube having a longitudinal slot therein disposed within the mold and having one end in communication with the magazine and the other end closed, a bearing on the casing in axial alignment with the mold for supporting the closed end of the tube,



means for conveying material from the magazine into the tube and for forcing it out through the slot therein into the mold, means for exerting pressure on said material in the mold consisting of one or several longitudinal pressing plates arranged alongside the opening in the feed tube and means for securing the mold, casing, feed tube, magazine and pressing plates against longitudinal movement.

2,163,119
MAGNET WIRE
Orville F. Freeland, North Muskegon, Mich., assignor to Anaconda Wire & Cable Company, New York, N. Y., a corporation of Delaware
Application December 7, 1937, Serial No. 178,516
5 Claims. (Cl. 174—124)

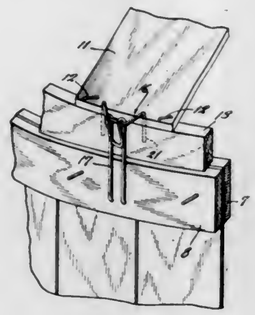


1. An electric conductor comprising a metallic wire and a non-metallic reinforcing strand laid parallel to said metallic wire, the tensile strength of said reinforcing strand being at least equal to that of said metallic wire, said reinforcing strand being located adjacent the outer surface of said metallic wire and bound to said wire by an outer non-metallic jacket.

2,163,120
BASKET COVER FASTENER
Paul Hintz, Marshall, Tex., and Albert H. Schmidtke, St. Joseph, Mich., assignors to St. Joseph Iron Works, St. Joseph, Mich., a corporation of Michigan
Application January 2, 1934, Serial No. 704,952
10 Claims. (Cl. 217—124)

2. The combination with a basket, of a cover therefor comprising a marginal hoop and thin cover material fastened to the upper edge of the hoop, a staple like fastener member having a pair of circumferentially spaced prongs driven down through the cover material and embedded in the hoop, said member having a laterally offset loop like portion clamped against the top surface of the cover material and projecting outwardly

therebeyond, and a companion fastener member secured at its lower end to the side wall of the basket and extending upwardly at the outer side of the cover hoop for engagement with the loop



like portion of the staple like fastener member of the cover, the upper end of said tongue member being bendable to interlock with said loop like portion.

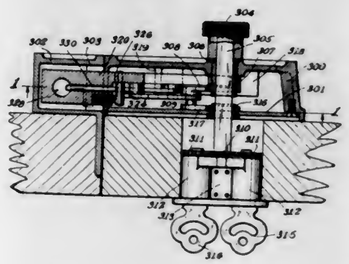
2,163,121

DOOR LOCK

John Holtzman, New York, N. Y., assignor of one-fourth to David Lampert, New York, N. Y.

Original application March 12, 1925, Serial No. 14,980. Divided and this application December 24, 1930, Serial No. 504,519½. Renewed December 4, 1937

11 Claims. (Cl. 70—131)



1. In a door lock, a casing, a bolt slidably mounted in said casing for engaging a keeper, mechanism for operating said bolt controllable by a knob on the inner side of said casing and a stem extending to the outer side, a pair of lock cylinders, gears on the inner ends of the lock cylinders, and a gear on said stem in mesh with said gears.

2,163,122

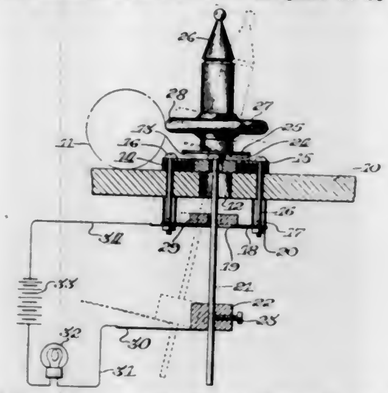
BALL ROLLING GAME OBSTACLE

Donald E. Hooker, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.

Application June 7, 1938, Serial No. 212,251

9 Claims. (Cl. 273—118)

1. For a ball rolling game having a substantially horizontal table over which a ball is rollable and having an opening formed therein, an upright freely mounted tiltable obstacle member carried by the table in said opening for universal tilting movement, and a bumper annulus included in the member over the table adapted to be engaged by a ball rolling on the table to tilt the member.



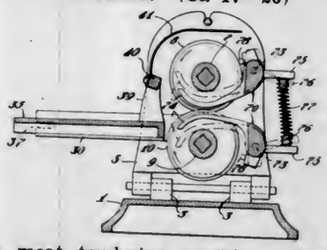
2,163,123

MEAT-TENDERING MACHINE

Leon C. Huse, Laconia, N. H.

Application October 21, 1936, Serial No. 106,715

2 Claims. (Cl. 17—26)



1. A meat tendering machine comprising a frame, a pair of cooperating parallel meat treating rolls each having a plurality of cutting disks, the disks on one roll being staggered relative to the disks on the other roll, a pair of guides, each guide having a plurality of fingers each extending between the disks of one roll and providing a guide surface intersected by the plane of a disk of an opposing roll, said guides being pivotally mounted on the frame, springs yieldably urging the fingers of the respective guides toward each other so that the fingers of each guide are yieldably urged toward the disks of the other guide.

2,163,124

PHOTOSCULPTURE

Sidney Thomas Jeffreys and Henry John Petty, Newport, England, assignors to Photosculpture Limited, Newport, England, a British company

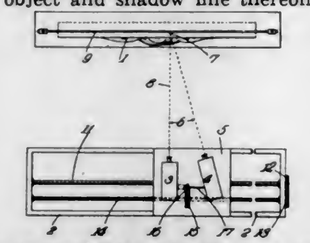
Application October 14, 1936, Serial No. 105,529

In Great Britain October 16, 1935

2 Claims. (Cl. 88—24)

1. Apparatus for obtaining a record of the surface contour of a tablet-like object comprising an object holder, a platform movable in a path horizontally parallel past the face of the object, a light projector and a camera mounted on said platform with their optical axes at an acute angle to each other and directed toward said object, said axes converging to a point adjacent said object, means in said projector for casting a vertical shadow line on said object, and

means for operating said camera to take pictures of said object and shadow line thereon as said



platform is moved horizontally in a path parallel to said object.

2,163,125

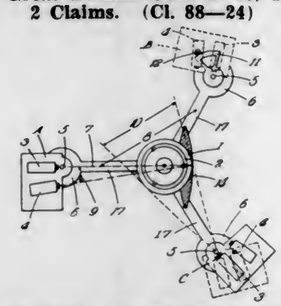
PHOTOSCULPTURE

Sidney Thomas Jeffreys and Henry John Petty, Newport, England, assignors to Photosculpture Limited, Newport, England, a British company

Application October 14, 1936, Serial No. 105,530

In Great Britain October 16, 1935

2 Claims. (Cl. 88—24)



1. The method of obtaining photographic records of successive profiles of an object, including placing the object in a central position, disposing a plurality of light projectors equidistantly spaced from each other around the object and at equal radial distances from the vertical center of the object; intersecting each of said light beams by a shadow-casting element having a straight vertical edge to thereby cast a vertical shadow on the object at the intersection of each light beam with the object; disposing a camera in association with each projector and with its optical axis permanently intersecting a corresponding beam at a point adjacent the vertical center of the object, cutting off all extraneous light from the object except the light from said beams; rotating each projector and its corresponding camera around a vertical center intersecting a radial line coincident with the corresponding light beam and through a predetermined arc so that each light beam and vertical shadow shall sweep over an equal angle, the several arcs equalling a full circle; and simultaneously operating the several cameras to take a plurality of successive pictures of the edges of said shadows at successive points on said object.

2,163,126

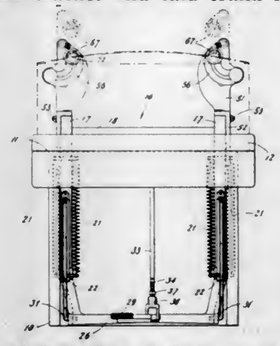
BOX PRESS

Lloyd E. Jones and Henry L. Smith, Dunedin, Fla., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application March 12, 1937, Serial No. 130,556

10 Claims. (Cl. 100—57)

1. In a box press, a box support, and means for clamping a box on said support including a bracket movable with respect to said support, a crank pivoted at one end on said bracket, a presser arm carried by said crank adjacent its free end, and adjustable connecting means between said bracket and said crank including a



plurality of fastening stations on said bracket and a fastening element adjacent the free end of said crank for selective engagement with said fastening stations, whereby to vary the vertical position of said presser arm relative to said bracket by pivotal movement of said crank.

2,163,127

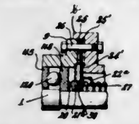
SEALING MEANS FOR SHAFTS OF COMPRESSORS AND THE LIKE

Alexander S. Limpert, Bay Shore, N. Y., assignor to Mechana Keld Corporation, Bay Shore, N. Y., a corporation of New York

Application September 25, 1933, Serial No. 690,844

Renewed August 29, 1936

2 Claims. (Cl. 286—11)



1. Sealing means for compressor shafts of refrigerating machinery, comprising a main shaft having a shoulder element provided with a smooth radially extending annular face, a housing through which said shaft projects and sealing means having a gas-tight fit with a lateral face of the shoulder element for preventing the escape of fluid through the joint between the shaft and the housing, said sealing means including a spring-pressed metallic diaphragm, a floating metallic washer surrounding said shaft and interposed between said diaphragm and such lateral face of said shoulder element and a resilient spacing washer interposed between said floating metallic washer and said diaphragm.

2,163,128

CHANGEABLE SIGN

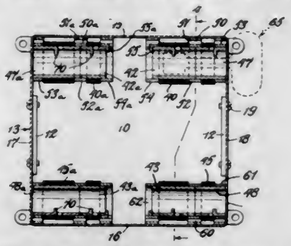
Clarence R. McGill, Andover, N. Y.

Application September 23, 1938, Serial No. 231,407

6 Claims. (Cl. 40—86)

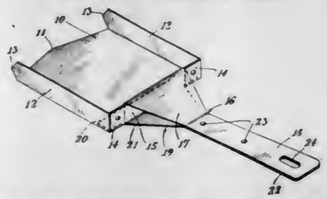
1. A changeable sign, comprising a casing, a pair of sleeves rotatably mounted in said casing in spaced relation and having their axes arranged parallel to one another, a window in said casing intermediate said sleeves, a tape secured to each of said sleeves and adapted to be wound from one to the other and bearing indicia visible through said window, said casing being provided with keyholes in axial alinement with each of

said sleeves, and an inward extension provided in each of said sleeves and engageable with a key



inserted through said keyholes and into said sleeves for rotating said sleeves.

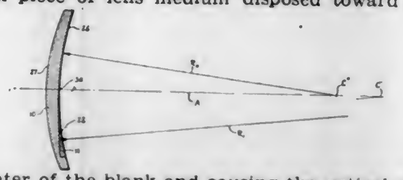
2,163,129
REMOVER FOR "PYREX" DISHES
Isabelle C. Molleson, Baldwin, N. Y.
Application October 11, 1938, Serial No. 234,344
4 Claims. (Cl. 294—32)



3. In a dish remover, an instrumentality having a pointed dish supporting member and being provided with integral side and rear walls, the front ends of the side walls being pointed, and a handle forming an integral extension of the rear wall.

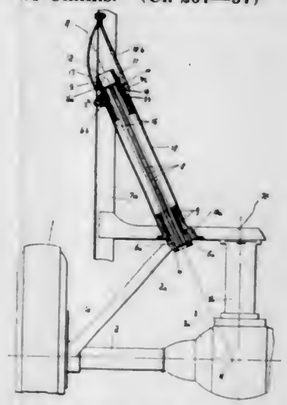
2,163,130
MULTIFOCAL LENS AND METHOD OF MAKING THE SAME
Arthur Pellow, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 12, 1937, Serial No. 130,536
6 Claims. (Cl. 88—54)

1. A blank for a multifocal lens having a relatively small distance vision field and a relatively large near vision field comprising a major piece of lens medium of a relatively low index of refraction having an opening therein, a minor piece of lens medium of a higher index of refraction secured in said opening, said composite pieces of lens medium having a continuous surface on one side thereof, a second major piece of lens medium of sensibly the same index of refraction as the first major piece secured to said continuous surface and overlying the minor high index piece of lens medium, said composite pieces of lens medium having an exposed surface curvature of a radius which is shorter than the radius of curvature of the first continuous surface, said exposed surface curvature extending over the minor high index piece of lens medium and cooperatively functioning with the indices of refraction of said composite pieces of lens medium and with said first continuous surface throughout the minor piece of lens medium to control the difference in power desired between the distance focal field, as produced by said minor piece of lens medium and the near vision field and simultaneously producing a controlling element of the resultant focal power desired of the relatively large near vision field, said exposed surface intersecting said first continuous surface adjacent the edge of said high index piece of lens medium disposed toward the



center of the blank and causing the optical center of said relatively small distance field to be positioned adjacent said point of intersection and the said minor high index portion to be thinner adjacent said edge than throughout the remainder of its contour.

2,163,131
SPRINGING ARRANGEMENT FOR THE WHEELS OF VEHICLES
Ferdinand Porsche, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Application February 16, 1934, Serial No 711,576
In Germany February 18, 1933
21 Claims. (Cl. 267—57)



1. In a vehicle having a chassis including a frame, a drive shaft housing connected thereto, a wheel axle, means for pivotally connecting said axle to said housing, a strut attached to said axle adjacent the wheel-carrying end, means for pivotally attaching the free end of said strut to said frame whereby said wheel axle is confined to pivotal movement relative to the frame and drive shaft housing about a substantially horizontal axis, means positioned in alignment with said axis for torsionally resisting movement of said axle about said axis, and means adjustable while the aforesaid means is under load for varying the torsional resistance of the aforesaid means.

2,163,132
MANIFOLD VALVE
Leonard C. Roney, Los Angeles, Calif., assignor to L. C. Roney, Inc., Los Angeles, Calif., a corporation of California
Application April 6, 1938, Serial No. 200,402
12 Claims. (Cl. 277—20)

1. In a manifold valve of the character described, the combination of: a body having a pair of valve openings; closure means so formed that by alternate movement it will close one and then the other of said openings; a rotary member operable from the exterior of said body; a gyratory member connecting said rotary member with said closure means and operating to receive movement from said rotary member and



transmit the same to said closure means so as to produce said alternate movement of said closure means whereby one or the other of said openings may be selectively closed; and spring means disposed so as to apply force to said gyratory member in such direction that the force derived from said spring will be transmitted through said gyratory member to said closure means.

2,163,133
SULPHONATED AND ACETYLATED ALCOHOLS AND HYDROXY ACIDS AND SULPHONATED AND HYDROLYZED DERIVATIVES THEREOF
Walther Schrauth, Berlin-Dahlem, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application February 11, 1932, Serial No. 592,441. Renewed September 23, 1936.
In Germany February 11, 1931
32 Claims. (Cl. 260—458)

1. The process of preparing sulpho-compounds which comprises reacting with a strong sulphonating agent lower molecular aliphatic esters of unsaturated high molecular alcohols corresponding in number of carbon atoms to the fatty acid components contained in the natural fats and waxes, said esters having a lower solidification point than the free alcohols of said esters.

18. A compound of the general formula

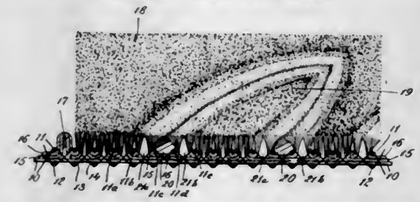
$$R-\underset{\displaystyle X}{\overset{\displaystyle |}{C}}-R-Y$$

wherein R—C—R represents a high molecular alkyl radical, Y represents a lower molecular carboxylic acyl radical and X represents a neutralized radical selected from the group consisting of sulphate and sulphonate radicals.

2,163,134
FASTENING DEVICE
Walter A. Semion, Milford, Conn.
Application March 20, 1937, Serial No. 132,017
10 Claims. (Cl. 151—14)

1. A fastening means for assembling sheet structures, comprising a nut member for placement on one side of the assembled sheets; a headed screw member for insertion through the sheets and for engagement of its thread with the thread of the nut member to thereby hold the sheets together; and means carried by one of said assembled sheets for applying pressure axially on the screw beyond its thread and beyond the nut member for holding the screw and nut members against relative casual rotation, the said means applying the axial pressure on the screw in the direction of the insertion of the same through the sheets.

2,163,135
PILE FABRIC
Howard L. Shuttleworth, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application March 9, 1939, Serial No. 260,673
1 Claim. (Cl. 139—406)



A pile fabric comprising the combination of stuffer warps, weft shots lying above and below the stuffer warps, binder warps crossing the weft shots above and below and binding the weft shots in place, and a pair of sets of pile warps lying within the body of the fabric with the warps of both sets raised between adjacent upper weft shots to provide a pile surface, said surface including figure and pile areas outlined by bands in which the pile surface is formed of raised pile warps of one set only, adjacent bands being separated by a space in which the pile warps of neither set have been raised.

2,163,136
METHOD OF STARTING GOVERNED ENGINES
John H. Wren, Los Angeles, Calif.
Application June 14, 1937, Serial No. 148,124
6 Claims. (Cl. 123—112)

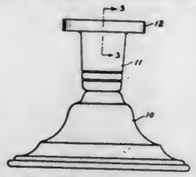


1. The method of starting an internal combustion engine having automatic means to control its speed and a fuel air mixing valve, which consists in manually releasing automatic control of the gas mixture, manually setting the gas mixture while the engine is turning at low speed, and then releasing manual control after the engine has started and to establish automatic regulation of the air-gas mixture by said mixing valve.

2,163,137
ADJUSTABLE CANDLESTICK
Emil Ager-Wick, Arendal, Norway
Application March 10, 1937, Serial No. 129,998
In Norway November 18, 1936
1 Claim. (Cl. 67—23)

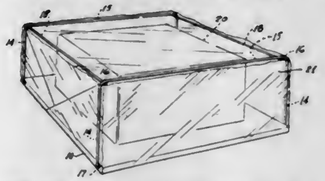
In an adjustable candlestick the combination of a conical base; a smaller conical shell fastened to the top of said conical base, and with its apex directed downwardly against the apex of the conical base; a flange surrounding the top of said smaller conical shell; a circular washer with three small radially extending, rectangular slots placed on top of said flange, and concentric with

same; three thin segmentary washers, each with a bent-up tab at either end, placed on top of said circular washer and with said metal tabs of one end of said segmentary washers engaged in said radially extending rectangular slots; a second circular washer identical with the first placed on top of said segmentary washers, and



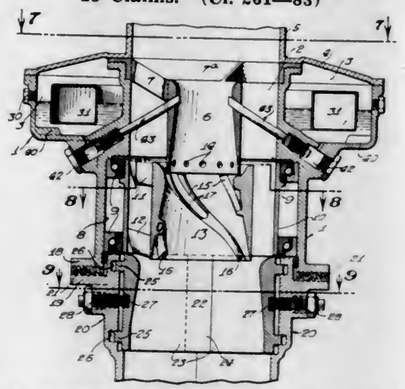
with the metal tabs of the other end of these segmentary washers engaged upwardly through said radial rectangular slots of said second circular washer, and a top washer, cupped and spun over said other washers and attached to and turnable on said flange of said upwardly directed conical shell.

2,163,138
DISPLAY CONTAINER
Myron H. Baldwin, Milwaukie, Oreg.
Application May 16, 1938, Serial No. 208,205
3 Claims. (Cl. 206—44)



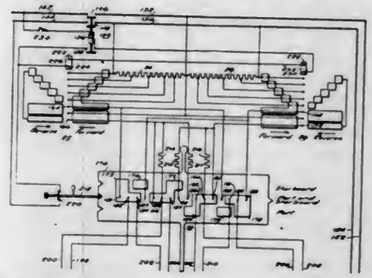
1. A display container consisting of a rectangular base of corrugated cardboard having wire arches disposed at opposite sides thereof, said arches having inturned feet adapted to engage the openings in the corrugated cardboard, wire cross ties between said arches and a transparent envelope supported by said arches and cross ties.

2,163,139
CARBURETOR
Joseph I. Brandon, Los Angeles, Calif.
Application May 22, 1937, Serial No. 144,187
15 Claims. (Cl. 261—83)



1. A carburetor comprising body means defining an air passage; a Venturi element mounted therein; means for supplying fuel to said Venturi element; a second venturi adapted to receive the discharge from said Venturi element; means freely journalling said second venturi; and a plurality of helical ducts lining the second venturi responsive to the flow of fuel and air therethrough to impart rotation to said second venturi, said ducts including fuel entrapping and discharge nozzles adapted to collect entrained fuel particles and re-spray the same into the air stream.

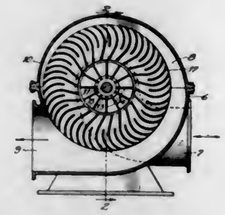
2,163,140
PARALLEL OPERATION OF MARINE GENERATORS
Harry C. Coleman and Clarence Lynn, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1938, Serial No. 187,696
14 Claims. (Cl. 172—8)



14. In an electric power system, the combination with a first prime mover, a first and a second generator mechanically coupled to the said first prime mover, a first motor for driving a mechanical load, a first device for controlling the speed and direction of rotation of the said first motor, a second prime mover, a third and a fourth generator mechanically coupled to the said second prime mover, a second motor for driving a mechanical load, a second device for controlling the speed and direction of rotation of the said second motor, of means for selectively electrically interconnecting the said generators to the said motors, said means comprising means for connecting the said first and the said second generators in parallel with each other and to the said first motor, and for connecting the said third and the said fourth generators in parallel with each other and to the said second motor; means for connecting the said first generator to the said first motor, for connecting the said second generator to the said second motor, and for disconnecting the said third and fourth generators; and means for connecting the said third generator to the said first motor, for connecting fourth generator to the said second motor, and for disconnecting the said first and second generators.

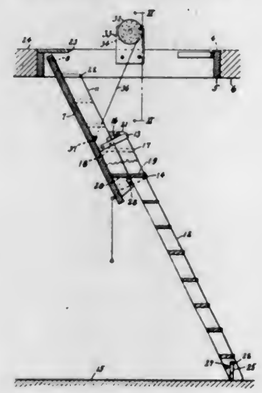
2,163,141
GAS-WASHING APPARATUS
Alfred J. Ebner, Elmhurst, Ill.
Application October 22, 1937, Serial No. 170,434
4 Claims. (Cl. 261—90)

1. Gas washing apparatus comprising a housing, a portion of said housing being readily removable, a gas inlet to said housing, gas washing and outlet chambers within said housing, a driven shaft disposed in said housing, a rotor fixedly mounted on said shaft, a second rotor loosely mounted on said shaft and concentric to said first mentioned rotor, each of said rotors being equipped with gas scrubbing surfaces and means



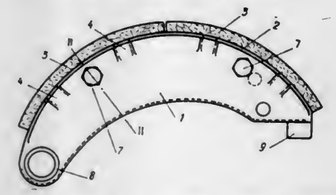
adapted to form a spray of washing fluid, each of said rotors rotating in the same direction, and an inlet supplying washing fluid to the interior of said gas washing chambers.

2,163,142
CONCEALABLE STAIR
Aldus H. Frazier, Pittsburgh, Pa.
Application June 10, 1937, Serial No. 147,426
3 Claims. (Cl. 228—50)



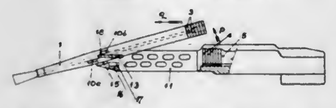
1. A concealable stairway comprising a jamb adapted to be mounted in an opening in a ceiling, a trap door hinged in said jamb, a two-part stair having a relatively short fixed part affixed to the upper surface of the trap door and having a relatively long slidable part, a pair of brackets on each side of the fixed part for slidably supporting the slidable part upon the upper surface of the fixed part in such manner that the slidable part may be pushed up into a concealed position in the space above the trap door or slid down into an operative position with its lower end resting upon a floor below, the slidable part overhanging the jamb by a substantial amount in the concealed position of the stairway, means for definitely limiting the downward sliding motion of the slidable part so that at least its top tread is in substantial alinement with a tread of the fixed part, the slidable part overlapping a short portion of the fixed part in the operative position of the stair, whereby to limit the clearance-space required for the upper end of the slidable part in the concealed position of the stair, and means for maintaining the slidable part up and the trap door up, in the concealed position of the stair.

2,163,143
BRAKE SHOE
Giuseppe Gallo, Giovanni Battista Bassi, Felice Bassi, Luigi Bassi, and Giuseppe Calliera, Turin, Italy
Application September 21, 1937, Serial No. 164,862
In Italy December 3, 1936
2 Claims. (Cl. 188—246)



1. A brake shoe for motor vehicle brakes and the like comprising in combination, a shoe body of U-section, a lining in said body formed with an open recess and a bolt extending through holes in the walls of the shoe and through the recess in the lining and pressing the side walls of the shoe body against the lining so that the lining is retained between said walls by friction.

2,163,144
FIREARM
Václav Holek, Brunn, Czechoslovakia, assignor to Československá Zbrojovka, a. s., Brno, Brunn, Czechoslovakia
Application April 13, 1937, Serial No. 136,571
In Czechoslovakia April 17, 1936
2 Claims. (Cl. 42—75)

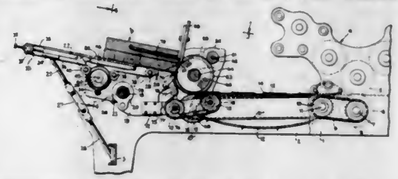


1. In a fire arm in combination, a gun body formed with an axially extending recess, a barrel seated in said recess, interlocking means on said body and the breech end of said barrel to hold said breech to said body with its breech end supported for ready removal of the breech end of said barrel in vertical direction, two inwardly directed horizontal ledges facing each other on the inner walls near the muzzle end of said recess, and two pairs of outwardly directed horizontal ledges on said barrel, one pair extending above, the other below the ledges fixed to the inner walls of said recess, when the barrel is seated in said recess, said pairs of ledges being arranged in staggered relation, the lower pair extending forward of the vertical plane containing the front edge of the upper pair.

2,163,145
BLANK FEEDING DEVICE
Sixten Ivar Johnson, College Point, N. Y., assignor to Lily-Tulip Cup Corporation, New York, N. Y., a corporation of Delaware
Application July 17, 1937, Serial No. 154,127
8 Claims. (Cl. 271—39)

1. In a blank feeding device, the combination of means for supporting a stack of blanks of sheet material on edge, variable speed continuously moving conveyor means constructed and arranged so as to frictionally engage the underneath edges of said blanks and progressively advance said stack along said first means by said

frictional engagement with said edges at a substantially uniform feed pressure, and means for



successively removing individual blanks from the forward end of said stack.

2,163,146

TAURIDES

Karl Kumetat, Wolfen, Bitterfeld, and Sebastian Gassner, Leverkusen, near Cologne, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware

No Drawing. Original application October 7, 1936, Serial No. 104,442, Patent No. 2,131,742. Divided and this application September 18, 1937, Serial No. 164,500. In Germany October 11, 1935

5 Claims. (Cl. 260—371)

1. A tauride of a compound selected from the group consisting of anthraquinone carboxylic acids, anthraquinone sulfonic acids and such acids in which the nucleus is substituted by halogen.

2,163,147

FIXATION OF CHLOROPHYLLIAN COLORED MATTER

Victor Charles Emile Le Gloahec, Rockland, Maine, assignor to Algin Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application August 12, 1938, Serial No. 224,507

20 Claims. (Cl. 260—116)

8. A method of separating chlorophyllian pigment from alginous material which comprises forming an aqueous mass containing dissolved alginous material, proteinous material and chlorophyllian pigment, incorporating with the mass a protein coagulant which leaves the alginous material in a dissolved condition to coagulate the proteinous material and fix the chlorophyllian colored matter therewith, and separating the coagulated proteinous material and chlorophyllian colored matter fixed therewith from the solution of dissolved alginous material.

2,163,148

SLAGGING WATER-GAS GENERATOR

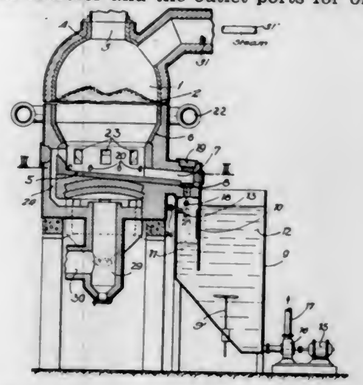
Willy Linder, Essen-Bredeney, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

Application March 2, 1937, Serial No. 128,569

In Germany March 4, 1936

5 Claims. (Cl. 48—78)

1. A slagging water-gas generator designed for alternate air blows and water-gas steam runs with separation of the ash from the bottom of the generator in liquid form comprising a fuel chamber having a sole adapted for liquid slag provided with liquid slag outlet means, means for admitting down run water-gas making steam and for taking off up run air blast gas at the top of fuel chamber, means connected with the bottom of the generator fuel chamber for introducing air for blasting the same and withdrawing downrun water gas from the base of the chamber near the sole for liquid slag, said latter means comprising separate lower ports for inlet of blast air and separate lower ports for off flow of downrun water gas from the generator fuel bed, the ports for inflow of blast air being disposed around the periphery of the sole for liquid slag at approximately the level of the liquid slag outlet means therefor and the outlet ports for off-flow



of down run water gas being peripherally disposed around the base of the generator just above the sole at a level above the slag outlet means therefor in spaced relation in alternation with the inlet ports for air, whereby the highest temperature prevails at the sole and the atmosphere on the bottom is of an oxidizing nature so that nearly the whole quantity of fixed iron remains in the slag.

2,163,149

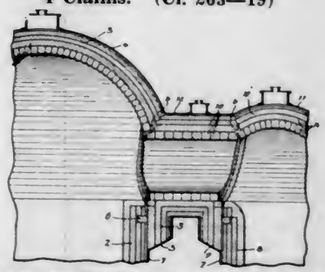
REGENERATIVE GAS HEATER WITH COMBUSTION SHAFT ARRANGED OUTSIDE THE HEATER CASING

Willy Linder, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

Application May 7, 1938, Serial No. 206,608

In Germany May 8, 1937

4 Claims. (Cl. 263—19)



1. A regenerative heating system comprising a regenerator tower-like metal casing inner-lined with refractory brickwork and having a metal-encased dome inner-lined with refractory brickwork; a combustion shaft therefor arranged outside the same and constituted of a tower-like metal-casing inner-lined with refractory brickwork and having a metal-encased dome inner-lined with refractory brickwork; and a connecting channel constituted of a metal-casing inner-lined with refractory brickwork connecting the regenerator dome with the combustion shaft dome; and in which the ends of the end bricks of the inner refractory lining of one of the domes and the ends of the end bricks of the inner lining of the connecting channel, that are adjacent each other, are disposed relative to each other so as to be so spaced from each other, in cold condition, that the end faces of the channel bricklining will fit in gas tight relation against the end faces of the dome bricklining, without exerting dangerous pressure of expansion on each other, when expanded under heat in operation.

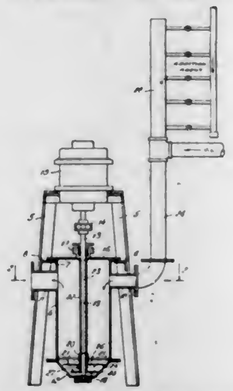
2,163,150

OIL REFINING APPARATUS

Herman August Meissner, Wellsville, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application August 14, 1937, Serial No. 159,104

6 Claims. (Cl. 259—7)



1. A mixing device for fluid mixtures which comprises a substantially closed mixing chamber provided with a partition therewithin extending from one end of the mixing chamber towards the other end thereof and dividing the mixing chamber into a plurality of compartments communicating only at one end of said partition, a rotatable shaft positioned in the plane of the partition, a perforated disk mounted on the shaft within the mixing chamber and adjacent the end of the partition at which the compartments communicate, whereby fluid mixture passing from one compartment to another will pass through said rotatable disk in one direction and then through said disk in the opposite direction, means for introducing a fluid mixture into one of said compartments, and means for withdrawing the fluid mixture from another of said compartments, said rotatable shaft extending substantially parallel to the direction of flow of the fluid mixture in said compartments.

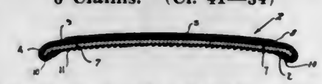
2,163,151

DECORATIVE MEANS FOR RECEPTACLES AND PROCESS OF APPLYING SAME

Edward H. Moseley, Watertown, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application December 19, 1936, Serial No. 116,791

6 Claims. (Cl. 41—34)



1. In a device of the character described, the combination of a case for spectacles or the like having a body portion and a cover portion, and a covering and lining for said portions, the covering for one of said portions consisting of two parts, one of which constitutes the main covering and the other a decorative covering, said main covering being secured to its respective portion of the case by a layer of adhesive and having end portions secured between the lining and said portion to which it is attached and the other decorative covering being of a smaller size than the main covering and having end portions extending through said main covering and lying between said main covering and the said respective portion of the case with the said ends embedded in the layer of adhesive with their upper and lower surfaces substantially in flush relation with the opposed surfaces of the adhesive whereby the said decorative covering is securely held in position.

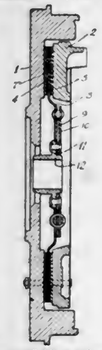
2,163,152

CLUTCH

John V. O. Palm, Cleveland Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio

Application February 18, 1937, Serial No. 126,365

2 Claims. (Cl. 192—68)



1. In mechanism of the character described, the combination of two coaxially mounted relatively axially movable driving elements provided with attached heat conducting metallic frictional facings on their opposed surfaces each of said facings forming a substantially continuous ring, and a driven element mounted coaxially with said driving elements and between the same, said driven element being axially movable into driving engagement with said driving elements upon axial displacement of the latter toward each other, and said driven element consisting of a thin resilient metallic plate, that directly engages said heat conducting metallic frictional facings.

2,163,153

COMPRESSOR SEAL

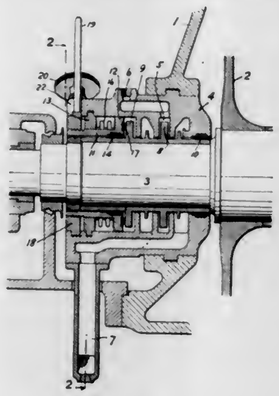
Arvid Peterson, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey

Application September 28, 1936, Serial No. 102,901

1 Claim. (Cl. 286—11)

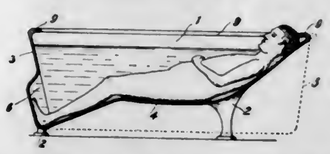
In a compressor, or the like, including a casing and a shaft extending through the casing, packing means comprising a shoulder carried by the shaft, an axially adjustable sleeve supported by the casing, having a threaded outer end, surrounding the shaft, and arranged to provide an annular fluid-tight seal with said shoulder, a collar surrounding the sleeve between its ends and forming a tight joint with the casing, a flexible

annular element of substantial axial extent surrounding said sleeve and having fluid tight engagement at its one end with the inner end of said sleeve and at its other end with the collar,



and a nut on the threaded end of the sleeve, said nut being rotatably mounted on the casing and fixed against axial movement for adjustably fixing said sleeve either in contact with the shoulder or spaced therefrom.

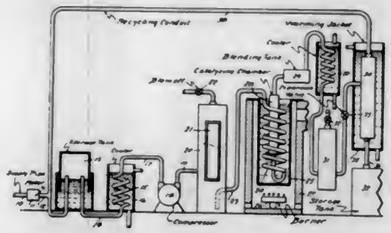
2,163,154
BATHTUB
August Radimsky, Dubrovnik, Yugoslavia
Application December 30, 1937, Serial No. 182,499
In Austria December 15, 1937
5 Claims. (Cl. 4—173)



1. In a bath tub, a substantially horizontal surface in the middle of the bottom of such tub to support the middle portion of the bather, said horizontal surface being extended at one side by a curved surface with a progressively increasing gradient and supporting the back and head of the bather, the other side of the said horizontal surface being extended by a surface inclined thereto and supporting the legs of the bather, the bottom of such tub being in conformity with the anatomical contour of the body of the bather and supporting his entire length in natural and comfortable position of rest.

2,163,155
PROCESS OF CONVERTING GASEOUS HYDROCARBON MATERIAL INTO NORMALLY LIQUID HYDROCARBON MATERIAL
James R. Rose, Edgeworth, Pa.
Application November 22, 1937, Serial No. 175,886
3 Claims. (Cl. 196—10)

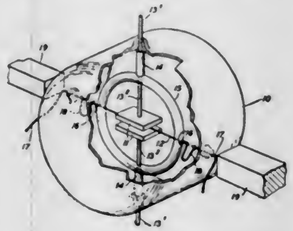
1. The process of manufacturing liquid hydrocarbons suitable for motor fuel from refinery gases containing saturates and unsaturates which comprises: liquefying the said gases under a pressure of from 500 to 1500 pounds per square inch; heating the resultant liquid while under said pressure to a temperature of from 500° F. to 1500° F., thereby to crack the same; contacting the resultant material, while under the said pressure, with a polymerization catalyst; cooling the resultant material to a temperature of from 50° F. to 75° F. while under the polymerization pres-



sure; venting uncondensed gases from the system; and reducing the pressure on the resultant liquid, thereby to separate, from the liquid polymer, gases suitable for recycling; the said catalyst comprising the following ingredients in substantially the following proportions by weight

	Parts
Natural phosphate rock	20 to 100
Carnotite ore	20 to 100
Zinc phosphate	5 to 20
Barium halide	3 to 12

2,163,156
ELECTRON DISCHARGE DEVICE
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 16, 1937, Serial No. 153,883
10 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising a cathode, an electrode in cooperative relation with said cathode, a single flexible member having spaced portions affixed to opposite ends of said cathode and spacing said cathode with respect to said electrode, and leading-in conductors electrically separate from said member and connected to said ends.

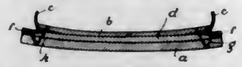
2,163,157
ELECTRON DISCHARGE APPARATUS
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1937, Serial No. 155,017
15 Claims. (Cl. 250—27.5)

1. An electron discharge device comprising an evacuated enclosing vessel, an annular anode and a cathode having an electron emitting portion in cooperative relation with said anode, said anode and said cathode having juxtaposed annular surfaces bounding a substantially toroidal cavity and



having portions separate from said surfaces defining a condenser.

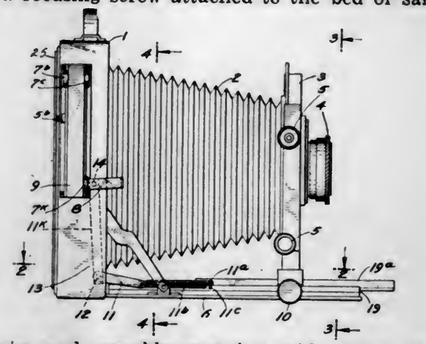
2,163,158
SHOE
Heinrich Schröder, Budapest, Hungary
Application July 31, 1937, Serial No. 156,685
In Hungary August 3, 1936
1 Claim. (Cl. 36—19)



In a McKay shoe including a top part comprising an insole and an upper lasted thereover, a bottom part comprising an outsole, and a fastening seam traversing all three constituent elements, the combination of a rubber layer located between said top part and said bottom part and vulcanized to both and traversed by said fastening seam, said rubber layer having its margin projecting beyond the edge of said top part and bevelled off so that its edge is substantially invisible from the outside of the shoe, a dummy welt upon the upper face of said projecting margin, and an additional seam securing said dummy welt to said margin.

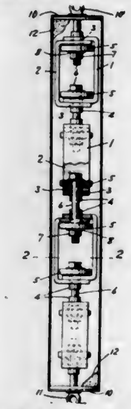
2,163,159
RANGE FINDER ATTACHMENT FOR CAMERAS
Morris Schwartz, Brooklyn, N. Y.
Application July 30, 1936, Serial No. 93,503
9 Claims. (Cl. 95—44)

1. In a folding camera, an enclosed container attachable thereon, said container including therein a movable reflector and a fixed reflector for viewing objects exterior to said camera, the viewed image of said object being thrown upon said movable reflector through an aperture in said container, the reflection of said viewed objects upon said movable reflector being projected in turn upon said fixed reflector, said fixed reflector being silvered in a manner to render said reflector transparent to direct viewing through adjacent apertures in said container thereby producing a duplicate image of said objects upon said fixed reflector, said movable reflector movable upon a bearing within said container, said reflector attached to a swinging bar also within said container, said bar operably attached to and made movable by a looped bar, said looped bar projecting outwardly from said container through an opening thereof and extending astride the edge of the side wall of said camera, said looped bar pivotally attached to lever arm means, said lever arm means situated within said side wall of said camera and contiguous to the objective carrier of said camera, said carrier made adjustably movable by means of a focusing screw attached to the bed of said



carrier and operably engaging said carrier, the adjustment thereof serving to move said carrier forward and back and likewise causing said movable reflector in said container to move correspondingly through the medium of said looped bar and lever arm means connected therewith.

2,163,160
STRAIN INSULATOR
George S. Van Antwerp, Norristown, Pa.
Application September 17, 1937, Serial No. 164,411
5 Claims. (Cl. 174—139)

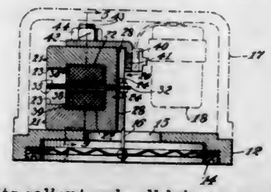


4. A strain insulator comprising spaced metallic links, insulating thimbles arranged thru the confronting portions of the links and provided with heads engaging the inner surface of the links and with stems projecting thru the links, metallic connectors passing thru the thimbles and having heads spaced apart in each link, and an insulating casing strung on the end connectors and housing the described structure.

2,163,161
MAGNETIC UNIT
Leslie H. Wadsworth, New York, N. Y., assignor to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York
Application May 20, 1937, Serial No. 143,781
4 Claims. (Cl. 175—339)

1. A magnetic unit comprising: a pair of complementary one-piece permanent magnet field

members, each field member being composed wholly of magnetic material and having spaced side wall portions and an integral salient pole positioned between said side walls, and each of the field members having the tops of its side walls and



the top of its salient pole all lying permanently in a single plane; a sheet metal armature member positioned between the field members; shims of magnetic material between the armature member and the field members; and means to secure the field members together.

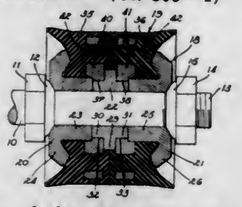
2,163,162

PUMP PISTON

George C. Wells, Lynwood, Calif., assignor to Wells Oil Tool Co., Los Angeles, Calif., a corporation of California

Application July 6, 1937, Serial No. 151,997

5 Claims. (Cl. 309—4)



1. A piston of the class described, having in combination: a core assembly providing walls forming a plurality of peripheral recesses; a plurality of resilient piston bodies adapted for mounting on said core assembly; and annular rigid reinforcement members permanently embedded in said bodies, said members being complementary to said recesses to be positively confined by the walls thereof and thereby locked against axial movement in either direction, said core assembly being separable at said recesses to release said reinforcement members for replacement of piston bodies.

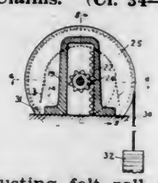
2,163,163

SELF-ADJUSTING FELT ROLL FOR PAPER MACHINES

Milton T. Weston, Red Bank, N. J.

Application April 22, 1938, Serial No. 203,639

6 Claims. (Cl. 34—48)



6. A self-adjusting felt roll for the felts on the dryer section of a paper machine, comprising in combination a revolvable tubular roll, a torsion shaft on which said tubular roll freely revolves, said torsion shaft having gear elements mounted on the ends thereof by which it may be turned and by which it is movably supported, gear racks oppositely disposed on the side frames of the paper machine and engaging the said gear elements on said shaft, and torsion means mounted on one end of said shaft to maintain a constant turning effort therein to effect a resulting parallel movement of said shaft and said roll with respect to said felt.

2,163,164

FOOD PRODUCT

Leonard Wickenden, Manhasset, and William Baptiste, Brooklyn, N. Y., assignors to Beau May Process Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 28, 1937, Serial No. 139,482

4 Claims. (Cl. 99—130)

1. A method of preparing a gelatin product which comprises intimately mixing sugar, dry gelatin, fruit acid or salt, adding intensified fruit until a dough-like mixture is obtained, heating the dough-like mixture to a temperature of approximately 130° F. and aerating the mixture at that temperature.

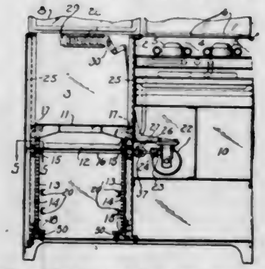
2,163,165

STOVE

Benjamin H. Wise, North Olmsted, Ohio

Application June 12, 1937, Serial No. 147,953

2 Claims. (Cl. 126—39)



1. In a stove having a burner section and a top burner therefor, an oven section at one side of said burner section and having an open upper end in a plane with the upper end of said burner section, a movable cover closing the upper open end of the oven section and adapted to be moved in a position to have a free unobstructed space between the open end of the oven section and the burner section, a burner within the lower end of the oven section, a roast support mounted in said oven section above the oven burners and an area approximately equal to that of the open upper end of the oven section, and means operated from without the oven for moving said roast support vertically in said oven section to bring the same in a plane with the upper open end of the oven section and close the same.

2,163,166

PHOTOGRAPHIC DEVELOPER

Gustav Wilmanns, Wolfen, Bitterfeld, and Wilhelm Schneider and Bruno Wendt, Dessau, Anhalt, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware

No Drawing. Application May 20, 1937, Serial No. 143,724. In Germany May 26, 1936

5 Claims. (Cl. 95—88)

1. A photographic developer containing a p-phenylenediamine having attached to one of the nitrogen atoms the radicle

$$(CH_2.CH_2.O)_n.CH_2.CH_2.OH$$

wherein n is a whole number.

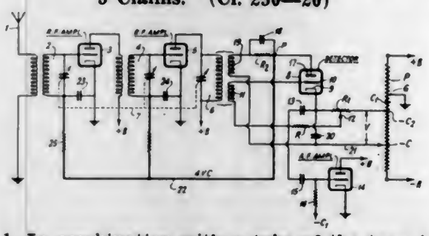
2,163,167

AUTOMATIC VOLUME CONTROL CIRCUIT

Roy A. Weagant, Douglaston, Long Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application January 25, 1938, Serial No. 186,792

5 Claims. (Cl. 250—20)



1. In combination with a tube of the type including a cathode, control grid and plate, a signal input circuit connected between the cathode and control grid to provide a diode detection circuit, said signal input circuit including impedance means for developing an audio current voltage from impressed signals, a second signal input circuit connected between the plate and cathode, said second circuit including impedance means for developing a direct current voltage from impressed signals, and impedance means, other than said two impedance means, common to said two input circuits for automatically controlling the detection efficiency of said cathode and control grid in response to current flow between said cathode and plate.

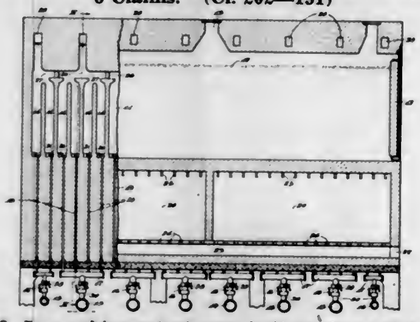
2,163,168

COKING RETORT OVEN

Joseph Becker, Pittsburgh, Pa., assignor to Koppers Company, a corporation of Delaware

Application May 11, 1936, Serial No. 79,085

6 Claims. (Cl. 202—151)



3. In a coking retort oven battery, in combination: heating walls comprising vertical flame heating flues spaced intermediately of coking chambers, the heating walls tapering in such manner that the mass of coal to be coked per unit of wall area increases from one side to the other of the battery, and the heating flues, in the respective heating walls, being operatively disposed for gas flow in individually regulable groups along each half of each heating wall with the respective groups in each heating wall positioned similarly to the like groups in the other heating walls and groups in similar positions similar to each other, horizontal flow duct means communicably connecting the flues of each group with each other at their upper parts, and cross over flue means communicably connecting the horizontal flow duct means for each group of vertical flues in each heating wall with the horizontal flow duct means of a group of vertical flues similarly positioned in another heating wall, there being a cross over flue duct individual to the respective individual groups of flues cross-connected by the horizontal flow duct means and cross over flue means therefor, regenerators, separated by division walls, below the coking chambers and heating walls and communicably connected with the vertical heating flues thereof at their lower parts, individual rich gas supply conduits in said regenerator division walls individual to the vertical flues for individually supplying rich gas thereto at their lower parts, from a distribution system in an accessible passageway therefor below the battery supporting mat, a pressure equalizer channel for each of the flue groups, each equalizer channel being communicably connected with the rich gas supply conduits for its group of vertical flues and being individual thereto, a distribution system in the accessible passageway for distributing rich gas to the flue groups, said system comprising at least one distributor header provided with leader conduit means comprising leader conduits each of which is individual to a single one of the flue groups and communicably connects the equalizer channel of only its flue group with the distributor header, and an individual volume regulating means individual to each individual flue group, the individual volume regulating means for each group being located in the individual leader conduit that is individual to that flue group, for regulating the volume of flow from the distributor header to each of the respective flue groups individually.

2,163,169

SEPARATION AND PURIFICATION OF GASEOUS MIXTURE

Herbert A. Gollmar, Union Township, Union County, N. J., assignor, by mesne assignments, to Koppers Company, a corporation of Delaware

No Drawing. Application January 11, 1936, Serial No. 58,773

14 Claims. (Cl. 23—2)

6. A process for the removal of weakly acidic gases from mixtures containing the same comprising: scrubbing the gaseous mixture with an alkaline solution containing a soluble salt of a phenolic acid that comprises a chemical compound containing the benzenes nucleus on separate carbon atoms of which are substituted a phenolic hydroxyl group and an acid group that is at least dibasic having at least one hydroxyl reactable with alkali, said solution containing sufficient alkali to combine with the acid group and the major portion of the phenol group, the absorption solution being regenerated with heat.

12. A process for the separation of hydrogen sulphide from gaseous mixtures containing the same, characterized by the gaseous mixture being scrubbed with an alkaline solution containing a soluble constituent having a substituted benzene nucleus containing a phenolic hydroxyl group or groups attached to said benzene nucleus and another group chosen from the class consisting of the sulphonic and carboxylic groups.

2,163,170

METHOD OF CRACKING HYDROCARBON GASES AND VAPORS

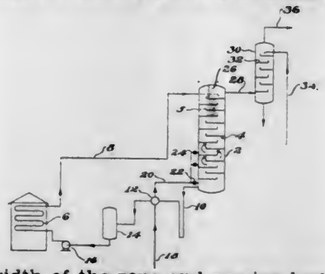
Salvatore A. Guerrieri, Mount Vernon, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application December 21, 1935, Serial No. 55,661

1 Claim. (Cl. 196—70)

A method of cracking hydrocarbon gases and

vapors which consists in introducing molten metal into a cracking zone and causing it to pass downwardly through the zone in a series of vertical showers extending across a substantial part



of the width of the zone and passing hydrocarbons to be cracked in successive horizontal paths through the showers in prolonged intimate contact with the molten metal.

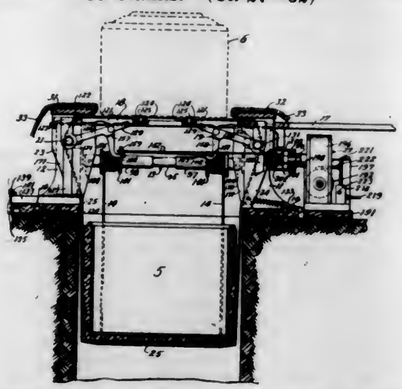
2,163,171

SECTIONAL BURIAL APPARATUS

Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois

Application April 23, 1936, Serial No. 75,952

38 Claims. (Cl. 27—32)



1. The combination with a vault lowering mechanism whereby a burial vault may be suspended and adjusted vertically in a grave excavation, of mechanical casket carrying devices having a limited connection with a burial vault suspended from the lowering mechanism and being adapted to receive and carry a casket to be deposited into the burial vault, said mechanical casket carrying devices being operable to deposit the casket supported thereby into the burial vault upon predetermined movement thereof.

2,163,172

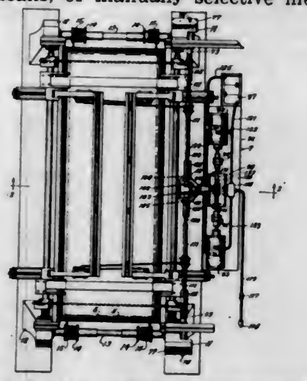
POWER OPERABLE BURIAL DEVICE

Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois

Original application April 23, 1936, Serial No. 75,952. Divided and this application June 18, 1938, Serial No. 214,462

9 Claims. (Cl. 27—32)

6. In a casket or vault lowering device of the character wherein the lowering device is provided with motive power means responsive to control for raising and controlling the lowering of the casket or vault, the combination with such power means, of manually selective means in-



cluding mechanism operatively connected to said power means for effecting raising or lowering action thereof, whereby said power means may be selectively controlled.

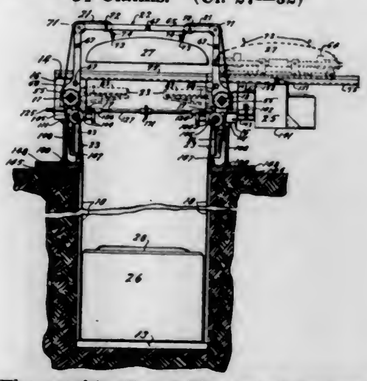
2,163,173

UNIVERSAL BURIAL DEVICE

Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois

Application October 10, 1936, Serial No. 105,061

34 Claims. (Cl. 27—32)



1. The combination with a vault lowering device comprising rotatable lowering elements and flexible elements extending therefrom for supporting and moving the vault, of other flexible elements extending from said rotatable lowering elements and connected for control thereby whereby a casket may be lowered to the floor of the vault as an incident to operation of the rotatable elements.

2,163,174

POWER ATTACHMENT FOR BURIAL DEVICES

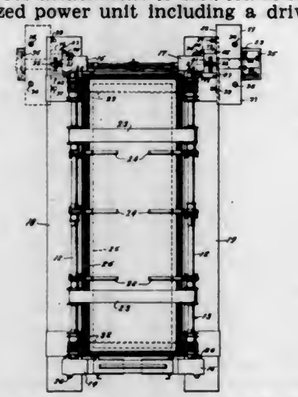
Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois

Application October 10, 1936, Serial No. 105,062

Renewed January 3, 1939

11 Claims. (Cl. 27—32)

1. The combination with a burial device, comprising rotatable lowering elements, a frame for supporting said lowering elements, and means including a crank stem mechanically connected to actuate said lowering elements, of a drive key arranged for attachment to said crank stem, and a motorized power unit including a driving ele-



ment actuated by the power unit and adapted to interlockingly engage said drive key when arranged adjacent and substantially in alignment therewith for actuating said rotatable lowering elements.

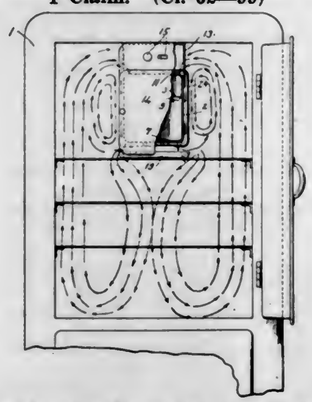
2,163,175

EVAPORATOR

William W. Higham, Detroit, Mich., assignor to Universal Cooler Corporation, Detroit, Mich., a corporation of Michigan

Application July 5, 1935, Serial No. 29,911

1 Claim. (Cl. 62—99)



In a refrigerator having a compartment to be cooled, an evaporator for refrigerant located in the upper part of the compartment and spaced relative to the opposite side walls thereof, said evaporator comprising a plurality of groups of coils of tubing for refrigerant, one group of coils being lowermost, another group being uppermost and another group of coils having an intermediate position, a shell defining a sharp freezing chamber, the lower group of coils lying below the lower wall of the shell, the upper group of coils lying above the upper wall of the shell, the intermediate group of coils lying within the shell, a partition member within the shell substantially in contact with the intermediate group of coils, and a plate on each side of the shell, each plate having its upper and lower edges fashioned to extend inwardly and to engage over a run of tubing in the upper and lower groups of coils, the body portion of each plate extending substantially in parallel relation to a side wall of the shell and having a vertically extending corrugate formation defining substantially separate flues for convection currents between the side walls of the shell and each plate, the inwardly extending upper and lower edges of each plate being cut away to provide passageways for the inlet and outlet of convection currents to and from the flues.

2,163,176

PROCESS FOR MAKING ORGANIC SULPHIDES

Ernst Keyssner, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany

No Drawing. Application November 8, 1935, Serial No. 48,872. In Germany November 13, 1934

4 Claims. (Cl. 260—609)

1. A process of producing organic sulphur compounds which comprises causing hydrogen sulphide to act in the presence of a strong base on compounds having the general formula $R-CH=CH_2$, in which R stands for a residue selected from the group consisting of hydrogen and the alkyl, alkenyl, cyclo-aliphatic, aliphatic-aromatic, aromatic and heterocyclic radicals.

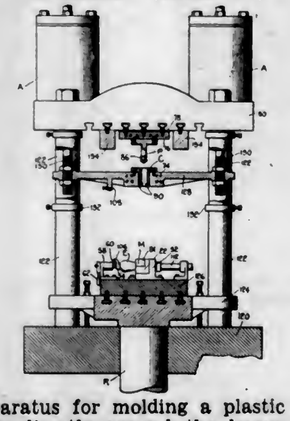
2,163,177

APPARATUS FOR THE MANUFACTURE OF LAMPS AND THE LIKE

Emil E. Novotny, Philadelphia, Pa., assignor, by mesne assignments, to Durite Plastics, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

Application February 16, 1935, Serial No. 6,778

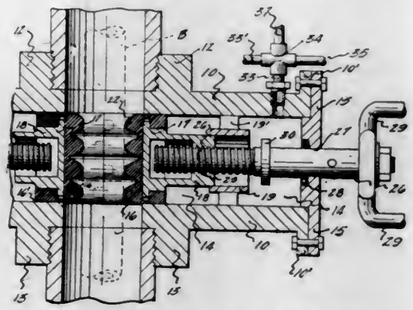
12 Claims. (Cl. 18—17)



1. Apparatus for molding a plastic composition base directly around the lower end of a sealed fragile glass envelope, said apparatus comprising a mold defining a mold cavity for producing a base, said mold being open at one side corresponding to the top of the base and being dimensioned to receive the lower end of the glass envelope, means to hold the glass envelope in the opening of the mold, passages in said mold for receiving the ends of lead wires projecting from the glass envelope, a pressure chamber in flow communication with said mold, means to heat the pressure chamber, and a plunger movable in said chamber for extruding molding material therefrom into said mold, and means to prevent the

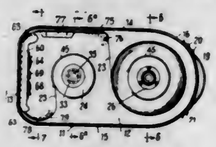
pressure in the mold from exceeding a low pressure incapable of breaking the envelope, regardless of the pressure reached in the pressure chamber.

2,163,178
WELL HEAD
Herbert C. Otis, Dallas, Tex.
Application June 18, 1936, Serial No. 85,827
4 Claims. (Cl. 137—139)



3. A well head including, a head member arranged to be attached to a well casing and provided with a vertical passage therethrough ample to permit the passage of a well drill, opposed chambers on each side of the passage of said head, a pair of elastic packing members held against rotation and each having a sliding fit in one of the chambers and a continuous elastic contact with the surrounding walls of the chamber, said packing members having elastic faces arranged to engage and pack off a drill stem extending through the passage of said head member, but being amply yieldable to permit the passage of a drill collar therebetween with substantially no loss of well pressure thereacross, fluid pressure means for supplying a fluid pressure to the rear sides of said packing members to displace them into sealing contact with a drill stem and for expanding the rear edges of the elastic packing members into sealing contact with the walls of the chambers, manually operated means for sliding the elastic packing members in the chambers, and means for positively holding the rods against sliding inwardly when manually operated.

2,163,179
FILM MAGAZINE
Edwin Stanton Porter, New York, N. Y.
Application July 7, 1934, Serial No. 734,137
Renewed March 18, 1937
4 Claims. (Cl. 88—16)



1. In a device of the character described, a shaft adapted to be rotated always in the same direction, a film magazine comprising a plurality of spools, a driven element on one side of the magazine for driving one of said spools, a driven element on the other side of said magazine for driving the other of said spools, and driving elements carried on said shaft and spaced along the length thereof for respectively engaging each of said driven elements, whereby said magazine may be reversed for enabling the film to be wound first in one direction and then in the other.

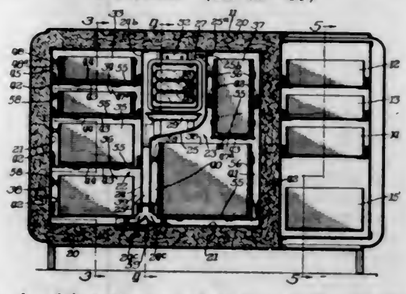
2,163,180
OXIDATION OF VINYL SULPHIDES
Hanns Ufer, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application May 11, 1935, Serial No. 20,988. In Germany May 19, 1934
7 Claims. (Cl. 260—607)

1. Vinyl compounds of the general formula: $CH_2=CH-X-R$ in which X stands for a radical selected from the group consisting of sulphoxide and sulphone radicals, and R stands for a member selected from the group consisting of radicles of aliphatic and cycloaliphatic hydrocarbons containing at least 6 carbon atoms, aliphatic-aromatic and aromatic hydrocarbons, their halogen, nitro- and hydroxy-alkyl substitution products, which radical is inert to the action of oxidizing agents selected from the group consisting of peroxide compounds and hypochlorites.

2,163,181
PROCESS OF PRODUCING HALOGEN-ALKYL AMINES OR THEIR SALTS
Heinrich Ulrich and Ernst Ploetz, Ludwigshafen-on-the-Rhine, and Max Bögemann, Cologne-Muhlheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application February 26, 1936, Serial No. 65,812. In Germany March 1, 1935
4 Claims. (Cl. 260—583)

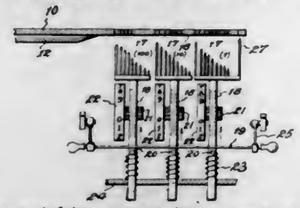
1. The process for the production of salts of halogenalkyl amines, which comprises causing a salt of a hydroxyalkylamine containing from 1 to 2 hydroxyalkyl groups with an inorganic non-oxidizing acid to react with a thionyl halide.

2,163,182
REFRIGERATOR
Paul C. Warren, Lakeside, and Walter Boydston, Niles, Mich.
Application May 23, 1936, Serial No. 81,462
3 Claims. (Cl. 62—89)



1. A refrigerator provided with a pair of spaced partitions dividing the interior into independent refrigerating sections and providing an air duct therebetween, inlet ports at the upper ends and outlet ports at the lower ends of said partitions, a cooling unit in said duct, a plurality of outwardly movable vertically spaced food compartments in each of said sections having openings through which air can pass, said compartments having insulated forward ends arranged to cooperate mutually when in closed position to close the forward faces of the respective sections, and laterally adjustable means at the lower end of said duct for variably apportioning the air delivered to said sections by said outlet ports.

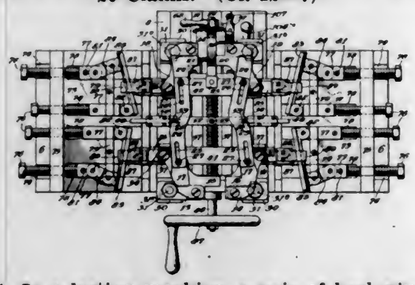
2,163,183
WEIGHING APPARATUS
Anthon Johannes Baagoe, Paris, France
Application September 22, 1938, Serial No. 231,247
7 Claims. (Cl. 116—129)



1. In a weighing apparatus, a perforated member movable in degree proportional to the setting of the weighing apparatus, independently displaceable feeler members, said perforated member having perforations therein arranged in groups of different denominational values adapted to be presented to said feeler members during movement of the perforated member, the number of perforations of the several groups presented to said feeler members, in every position of the perforated member corresponding to the number of units of weight of the goods being weighed, each of said feeler members including a group of pins corresponding to each group of perforations and adapted during displacement to penetrate said perforations to a degree proportional to the number of perforations presented thereto.

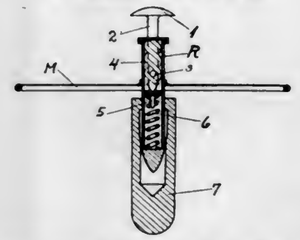
7. Weighing apparatus as claimed in claim 1, characterized by the provision of a movable member associated with each feeler member for affording an indication of the position thereof, and means for moving said movable member in degree proportional to the extent of movement of the associated feeler member.

2,163,184
MANUFACTURE OF SHOES
Joseph W. Barna, Chicago, Ill., assignor of forty nine per cent to Carl A. Laystrom, Chicago, Ill.
Application September 6, 1935, Serial No. 39,393
20 Claims. (Cl. 12—7)



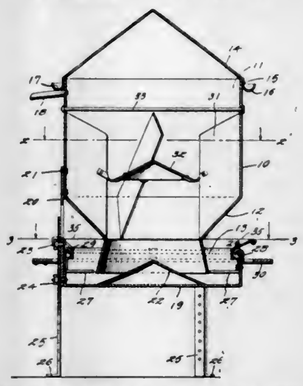
1. In a lasting machine, a pair of heel-wipers having a tongue and open-top groove connection, a pair of toe-wipers having a tongue and open-top groove connection, a pair of side-wipers each having a tongue and open-top groove connection at one end with one of the heel-wipers and at its other end with one of the toe-wipers, the joints between the wipers being formed with flush surfaces, and angular connections between each side-wiper and its associated heel and toe wipers.

2,163,185
WHIRLIGIG
Frederik Vilhelm Belstrup, Copenhagen, Denmark
Application May 18, 1935, Serial No. 22,254
In Denmark May 23, 1934
3 Claims. (Cl. 46—68)



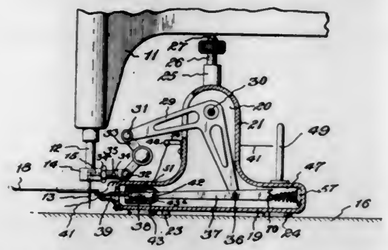
1. A whirligig comprising a body, cam means carried by said body at opposite sides thereof whereby a rotational impulse may be transmitted to said body, means coacting with said cam means mounted in said body normally urging said comounted slidably in said body and yielding means acting means outwardly from said body so that a blow upon said coacting means will rotate said body.

2,163,186
POULTRY FEEDER
Arthur J. Bergeron, Portsmouth, N. H.
Application September 27, 1937, Serial No. 165,999
3 Claims. (Cl. 119—53)



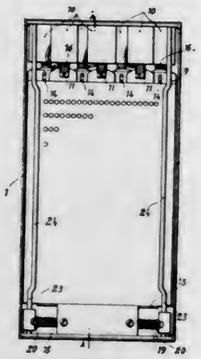
1. A feeder of the kind described comprising a substantially cylindrical body of uniform cross sectional diameter for a major portion of its length and having a contracted downwardly tapered lower portion terminating in a flared open lower end, a plurality of baffles arranged within the said body, uniformly spaced from each other and projecting inwardly from the side wall of said body, the said baffles being angularly disposed to the vertical and extending for a distance within said body, a spreader cone within the body in confronting relation to the flared lower end between said baffles and having connection therewith, and a pan below the flared lower end of said body and spaced therefrom.

2,163,187
WHIP-STITCHING ATTACHMENT FOR SEWING MACHINES
Tord Erik Daniel Bilde, Stockholm, Sweden
Application October 28, 1936, Serial No. 108,072
In Sweden November 2, 1935
4 Claims. (Cl. 112—162)



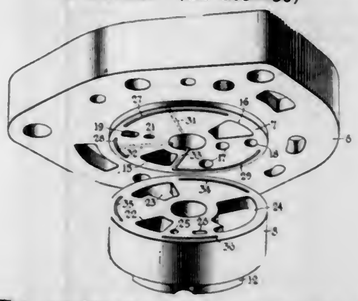
1. An appliance for attachment to a sewing machine for the formation of a whip-stitching seam, comprising a movable thread guide for an over-casting thread, means adapted to be coupled to a movable part of the machine to transmit motion therefrom to said thread guide, fixed guiding means for said thread guide forming two guiding paths substantially parallel to the direction of the movement of the thread guide to cause same to describe a movement above and below the fabric to be over-cast to form a whip-stitching seam together with the conventional two threads of the sewing machine.

2,163,188
REMOTELY CONTROLLED LUMINOUS EXHIBITOR
André Bosché, Paris, France
Application September 22, 1937, Serial No. 165,188
In France September 24, 1936
6 Claims. (Cl. 40—28)



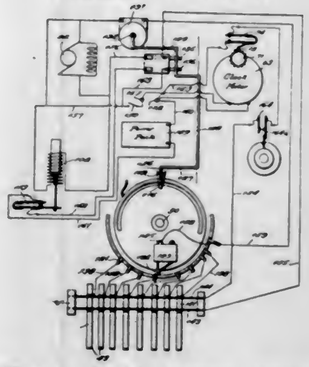
1. In apparatus of the class described, a case having a chamber and an opening with a ground glass closure; a cover also having an opening with a glass cover, a pack of movable and perforated plates in said chamber, a support at the bottom of said chamber on which said plates rest, a set of solenoidal magnets mounted in the case above the plates, there being one solenoid for each plate, said solenoids having core-armatures with lift pins connected to their respective plates, means to hold the lifted plates in the pack against falling when their magnets become accidentally de-energized.

2,163,189
LUBRICATING SYSTEM FOR ROTARY BRAKE VALVES
Charles A. Campbell, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application February 23, 1938, Serial No. 192,106
5 Claims. (Cl. 303—56)



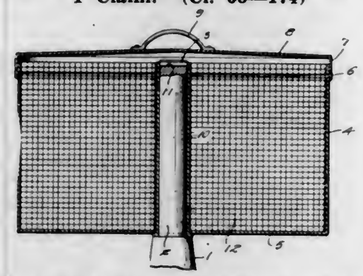
1. The combination of an engineer's brake valve comprising a seat and a rotary valve thereon, each of which is ported so that rotary shifting of the valve serves to establish pressure and exhaust connections with ports in the seat, the seat being provided with at least one arcuate oil channel in its face outside the area traversed by ports in the rotary valve and having an oil feed groove extending from the central portion of the seat to said arcuate channel across the face of the seat and so arranged as to engage a port in the valve only when the latter is connected to exhaust; and means for supplying oil to the last named groove under atmospheric pressure.

2,163,190
TIME CONTROLLED SELECTOR APPARATUS FOR RADIO RECEIVERS
Oscar A. Carlson and Louis Pratt, Detroit, Mich.
Application June 16, 1936, Serial No. 85,602
9 Claims. (Cl. 250—40)



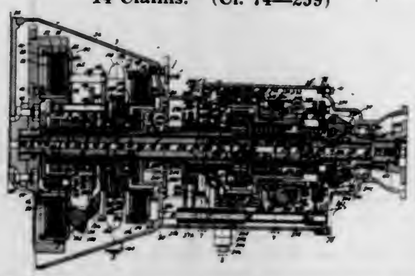
5. A time controlled selector apparatus for radio receivers comprising a tuning element, means for oscillating the tuning element through its full arc of movement, a plurality of switches operatively connected with the tuning element to set the same in motion and stop it in preselection positions, a time controlled mechanism, a drum positively driven by the time mechanism and having a declutchable connection with the same, a dial operatively connected with the drum to move in unison with the latter, the drum comprising a plurality of uniformly spaced peripherally arranged longitudinal rods and cams carried one by each of said rods, and means for simultaneously shifting all of said cams to a position free of engagement with said switches, and embodying a ring encircling the drum but out of contact with the rods thereof and a pull rod connected with said ring.

2,163,191
WASHING MACHINE ATTACHMENT
Joseph Cavallaro, Atco, N. J.
Application December 5, 1936, Serial No. 114,468
1 Claim. (Cl. 68—174)



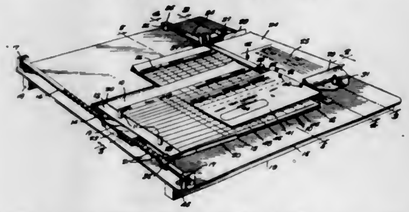
The combination with a washing machine including an oscillating spindle, of an attachment therefor and comprising an imperforate cylindrical container having a closed bottom and an open top, a cover for the top, a tube secured to and extending through the bottom and rising therefrom centrally within the container and for receiving the spindle therein, means for detachably securing the tube to the spindle for the latter to carry the container for oscillation therewith, partitions vertically arranged in said container and dividing the latter into separate compartments, said partitions being arranged in pairs with each pair formed from a single strip of wire mesh material, and the ends of the strips being bent to follow the shape of and secured to the vertical wall of the container and the central portions of the strips being shaped to follow and secured to the tube.

2,163,192
VEHICLE TRANSMISSION GEARING
Frederick W. Cotterman, Dayton, Ohio, assignor of one-half to Bessie D. Apple, Dayton, Ohio
Application December 4, 1937, Serial No. 178,191
14 Claims. (Cl. 74—259)



2. Power transmission mechanism comprising, a driving member, a driven member, gearing, a gear drive connecting means engageable for connecting said members through said gearing to rotate at different speeds, a one to one connecting means engageable for connecting said members to rotate at the same speed, torque responsive means for urging the gear drive connecting means to the engaged position, speed responsive means for urging said one to one connecting means to the engaged position, and control means adapted upon operation to hold both the connecting means in disengaged relation against the force of the torque responsive means and the speed responsive means.

2,163,193
MANIFOLDING APPLIANCE
Walter O. Critchfield, Shelby, Ohio, assignor to Shelby Salesbook Company, Shelby, Ohio, a corporation of Ohio
Application August 10, 1936, Serial No. 95,274
5 Claims. (Cl. 282—29)

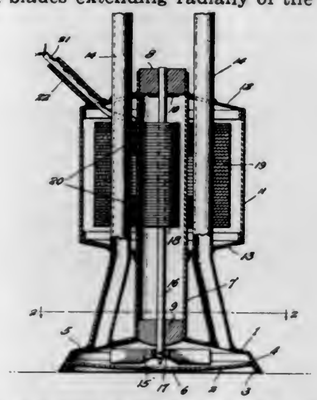


5. In a manifolding appliance for use with a data sheet having a name column and adjacent information area, a stack of record sheets for individual identification with the names in the name column of the data sheet and checks individually identified with the names in the name column of the data sheet, the improvement which comprises a data sheet holder to support the data sheet with the information area thereof extending beyond the holder, means for maintaining the stacked relation of the record sheets directly below the information area of the data sheet, means for adjusting the data sheet holder to position and definitely maintain the latter with any name in the name column thereof at a predetermined point with respect to the stack of record sheets, the data sheet holder having means to secure the data sheet thereon with a sheet of transfer paper intervening between the information area thereof and the uppermost of the record sheets, a check holder for the individual reception of the checks and retain the latter with a sheet of transfer paper therebeneath, and a bar on which the check holder is adjustably mounted to position the check and transfer paper at selected points on the information area of the data sheet, the bar having a swinging mounting at one extremity to removably support the check holder over the information area of the data sheet.

2,163,194
FOUNTAIN PUMP
Marshal E. Davis, Bloomfield, Ind.
Application December 31, 1937, Serial No. 182,903
1 Claim. (Cl. 103—87)

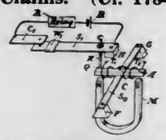
A fountain pump comprising a hollow base defining a water chamber and having a top wall and a bottom, the bottom being formed with an inlet located centrally thereof, a tubular standard rising from the top wall of the base about an opening formed therein over the inlet, a motor casing rigidly mounted about said standard and spaced upwardly from the base, discharge pipes extending upwardly from the top wall of the base about outlet openings therein and vertically through the motor casing, sealed joints being

provided about the discharge pipes at the top and bottom of the casing to prevent leakage and firmly secure the casing to the discharge pipes whereby the pipes act as braces and supports for the casing, plugs closing upper and lower ends of said standard, a motor shaft extending vertically through the standard and journaled through said plugs with its lower end extending into said chamber, a propeller fixed to the lower end of said shaft within said water chamber and having blades extending radially of the chamber



between marginal edges of the inlet opening and the discharge pipes whereby water will be drawn into the chamber and discharged through the discharge pipes when the shaft and the propeller are in motion, a rotor for an electric motor rigidly carried by said shaft within said standard and located intermediate the depth of the motor casing, a motor field in the motor casing surrounding the standard and the discharge pipes, and field coils in the casing disposed about the tubular standard and surrounded by the field.

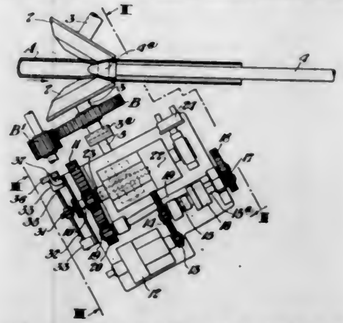
2,163,195
MECHANICAL RELAY
Paul Griffith Edwards, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 8, 1936, Serial No. 104,738
22 Claims. (Cl. 178—48)



1. In a device for demodulating a modulated carrier wave, a mechanical element having a vibratory frequency substantially equal to that of the carrier frequency and selectively responsive to the carrier frequency, and a second mechanical element mechanically coupled to the first-mentioned element and having a vibratory frequency substantially equal to a predetermined modulating component of the wave to be demodulated and selectively responsive to said modulation component.

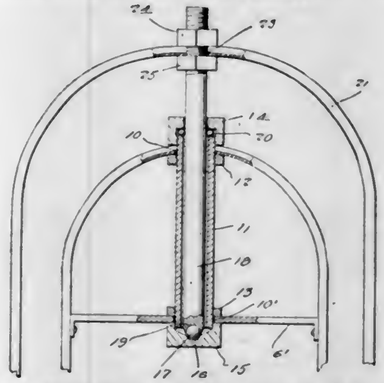
2,163,196
INDICATOR
Stevenson Findlater, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey
Application September 27, 1937, Serial No. 165,970
1 Claim. (Cl. 80—56)

Apparatus for manufacturing metallic tubular articles comprising a pair of convergent drive-shafts, a housing for carrying each of said drive-shafts, a substantially conical metal working roll secured to the convergent end of each of said drive-shafts, one of said drive-shafts being axially reciprocable with respect to its housing, a shaft axially aligned with and connected to the divergent end of said last named drive-shaft, a



gear train associated with said axially aligned shaft, said gear train being constructed and arranged to move said axially aligned shaft whereby the drive-shaft to which it is connected is axially moved to adjust the position of the roll carried thereby, a spiral cam mounted on one of the gears of said gear train, a gear in mesh with said spiral cam, and a dial operated by said gear.

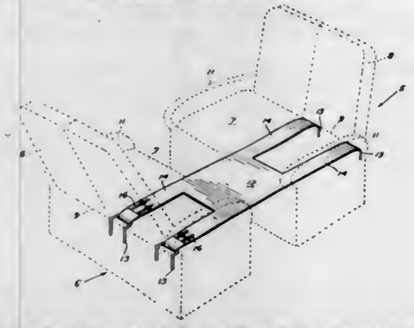
2,163,197
CHIMNEY COWL
Patrick J. Fitzgerald, Prescott, Ariz.
Application March 29, 1938, Serial No. 198,770
1 Claim. (Cl. 98—68)



In a chimney cowl, a flue member adapted to be mounted on the top of the chimney to extend above the same, a hood surmounting the flue member and having a skirt depending therefrom over the upper end of the flue member in spaced relation thereto and a side opening therein at the top thereof and above said member, and means to mount said hood on said flue member for rotation thereon comprising an upwardly arched support spanning the top of the flue member and secured thereto, a similarly shaped hanger secured to the opposite sides of the hood interiorly thereof and surmounting the support, a sleeve fixed on said support in upstanding position, an arbor depending from the hanger into said sleeve, an anti-friction ball at the lower

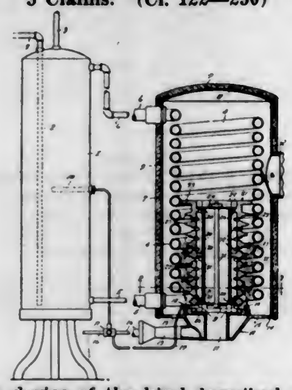
end of said sleeve supporting the lower end of the arbor, and anti-friction side thrust bearings interposed between the upper end of the sleeve and said arbor.

2,163,198
BODY SUPPORT FOR RAILROAD COACH CARS
Sarah L. Gossard, San Diego, Calif.
Application April 12, 1937, Serial No. 136,475
1 Claim. (Cl. 155—165)



In a body support for railroad coach cars, the combination with a pair of railroad coach chairs positioned one in front of the other in spaced relation with shiftable backs, said backs being disposed adjacent the outer opposite edges of the seat, a substantially rectangular flexible bridge member disposed in the plane of the seating surface and in the space between the seats, said bridge member having a strap extending from each corner thereof and parallel thereto each back bearing upon the adjacent straps and hooks at the outer ends of the straps engaging the opposite outer end faces of the seats.

2,163,199
WATER HEATER
Arthur M. Hart, Lakewood, Ohio
Application February 25, 1937, Serial No. 127,793
5 Claims. (Cl. 122—250)

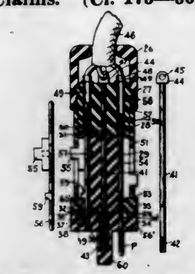


2. In a device of the kind described, the combination of a casing, a vertical coil therein, a gas burner in the casing and under the lower end of said coil, and a cylindrical element extending vertically beside and concentric with the coil and spaced at all sides therefrom, said element comprising material of the radiant type having high heat absorbing and radiating qualities and provided with a plurality of projections extending toward the coil and into the path of the flames for absorbing and radiating the heat, the burner comprising a ring with gas jets directed upwardly into the space between the coil and the said element, to directly heat the coil and said element by contact therewith of the flames from the burner, and a flange at the top of said element extending across the top of the said space.

2,163,200
MALT-ENZYME EXTRACTION IN BEER MAKING
Eberhard Helmann, Berlin-Schoneberg, Germany
No Drawing. Application March 4, 1937, Serial No. 129,098. In Switzerland March 4, 1936
7 Claims. (Cl. 99—43)

4. A process for the preparation of beer and enzymes, comprising treating liquid obtained by mashing malt with at least one aluminum silicate to adsorb the malt enzymes contained in such liquid, separating the resulting liquid from the aluminum silicate containing the adsorbtively bound malt enzymes, extracting the malt enzymes from the aluminum silicate, adding the liquid separated from the aluminum silicate to a mash, and further treating said mash for the manufacture of beer.

2,163,201
ANALYZER PLUG
Paul Kalencik, New York, N. Y.
Application March 13, 1936, Serial No. 68,669
9 Claims. (Cl. 173—361)

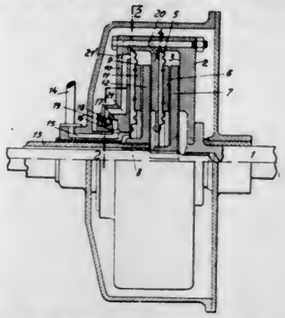


1. A device of the character described comprising a body having a plurality of retractable prongs, each of said prongs having means for extending and retracting the same, and means for locking said prongs in either extended or retracted positions, said latter means comprising a member rotatable with respect to said body and having a passage for permitting selective extension and retraction of said prongs.

2,163,202
HYDRAULIC CHANGE GEAR DEVICE FOR AUTOMOBILE VEHICLES
Adolphe Kégresse, Paris, France
Application August 28, 1936, Serial No. 98,392
In France September 2, 1935
9 Claims. (Cl. 192—87)

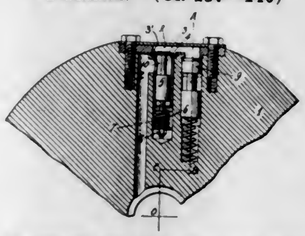
1. In a change speed transmission actuating clutch of the character described, a driving shaft, a plurality of axially spaced fixed driving clutch plates carried by said driving shaft, an axially shiftable clutch plate interposed between each pair of fixed plates, at least one diaphragm juxtaposed to one of each pair of fixed plates and forming an expansible chamber between said one of each pair of fixed plates and the shiftable

plate interposed between the fixed plates, a plurality of telescoped driven shafts, a driven clutch plate slidably splined on each driven shaft, one of said driven plates being positioned between the other of a pair of said fixed plates and the



interposed shiftable plate, means for supplying liquid under pressure to said chambers, and pressure responsive means for successively admitting liquid to successive chambers as the pressure of the liquid supplied increases.

2,163,203
HYDRAULIC SUPPLY OF ROTATING SYSTEMS
Adolphe Kégresse, Paris, France
Application May 27, 1937, Serial No. 145,141
In France June 6, 1936
4 Claims. (Cl. 137—140)



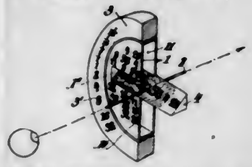
2. In a device for the automatic interruption of the fluid supply in rotating hydraulic systems, in which a fluid arrives under pressure from a source, a balanced normally closed valve of the poppet type radially mounted on said rotating system and presenting to the fluid two opposite surfaces of approximately the same area, and a valve seating spring regulated to overcome the effect of centrifugal force tending to open the valve at a minimum predetermined speed of rotation of the rotating system.

2,163,204
DYEING AND FINISHING OF TEXTILE MATERIALS
Louis Amédée Lantz and William Stuart Miller, Manchester, England, assignors to The Calico Printers' Association Limited, Manchester, England
No Drawing. Application March 15, 1937, Serial No. 131,046. In Great Britain March 21, 1936
11 Claims. (Cl. 8—66)

1. A process for the treatment of textile materials of natural or regenerated cellulose comprising impregnating the materials with formaldehyde in the presence of an isocylic sulphonic acid at a pH of 0.8 to 2.0, drying at a temperature not exceeding 100° C., washing and drying.

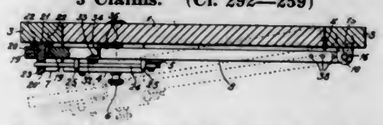
8. The process claimed in claim 1 in which a textile fabric is impregnated with a dyestuff which normally has a low affinity for cellulose materials and in selected areas with the formaldehyde and sulphonic acid, prior to the first drying step, the dyestuff being removed from the untreated areas by the subsequent washing step.

2,163,205
OPTICAL LIGHT EXPOSURE METER
Alois Leber, Wiener-Neustadt, Nieder-Oesterreich, Austria
Application November 20, 1936, Serial No. 111,879
In Austria November 23, 1935
2 Claims. (Cl. 88—23)



1. Optical light exposure meter comprising in combination a ring provided on its front with symbols denoting the values of light intensity impinging upon the eye and consequently the eye sensitivities of one and the same operator and on its rear side a scale denoting times of exposure, a disc having on the front side a scale denoting the different plate light sensitivities and freely rotatable within said ring to adjust said light sensitivity scale to said symbols, and a grey wedge mounted in said disc bearing on its side facing the rear side of the disc a scale denoting the normal sizes of stops, the numeral which is just readable being the normal stop size corresponding to the actual light intensity and plate sensitivity, said disc having on its rear side a plurality of vertical tables each in vertical alignment with one of the numerals of the scale on the grey wedge and denoting the selected sizes of stops, the numerals in the different tables being each in horizontal alignment with one of the exposure times on the ring depending upon the adjustment of said disc, the numeral on the exposure time scale in horizontal alignment with the selected stop size in the column in vertical alignment with the normal stop size representing the exposure time corresponding to the selected stop size, the light intensity and the plate sensitivity.

2,163,206
METAL SAFETY BAR FOR DOORS
Leandro Garcia López, Habana, Cuba
Application November 3, 1937, Serial No. 172,632
In Cuba September 27, 1937
3 Claims. (Cl. 292—259)

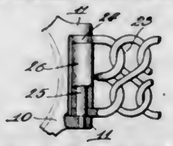


1. A metal safety bar for doors, in combination with a locking-pin secured to the door frame, the bar having at one end thereof means for connecting it with the door-frame which permit its rotation in two perpendicular planes, and means slidably mounted on the other end of the bar, said means being connected to the bolt of a door lock and adapted to be detachably connected to the locking-pin, so that the latter means may automatically follow all of the movements of the lock bolt.

2,163,207
METHOD FOR THE MANUFACTURE OF POROUS BUILDING MATERIAL
Simon Missotten, Brussels, Belgium
No Drawing. Application February 20, 1937, Serial No. 126,942. In Belgium February 26, 1936
5 Claims. (Cl. 106—24)

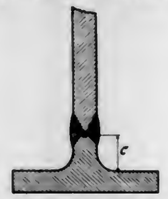
1. Method for producing materials of construction having a cellular structure in which lime base binders are combined with substances which evolve gas, comprising adding to the said binders an aqueous solution of ammonia and substances which evolve chlorine so as to produce, by the reaction between the ammonia and these substances, the evolution of nitrogen in the mass as it sets.

2,163,208
WRIST WATCH AND BRACELET CONNECTION
Frank S. Moody and Leo R. Pauwels, Los Angeles, Calif., assignors to Paramount Watch Band Manufacturing Company, Los Angeles County, Calif., a partnership composed of Leo R. Pauwels, Joseph A. Moody, and Frank S. Moody
Application November 6, 1937, Serial No. 173,186
1 Claim. (Cl. 224—4)



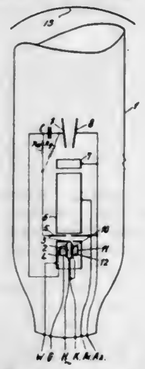
In a wrist watch and bracelet therefor, said bracelet including at least one end portion comprising an 8-shaped link arranged transversely across one end of said bracelet; a one-piece member connecting said link to said watch, said member being formed to provide two open loops connected by an intermediate helical twist, the bight of each of said open loops engaging a loop of said link, said helical twist limiting the lateral shifting of said member on said link and causing said member to have a substantially flat engagement with said link, and means detachably securing the free ends of said member to said watch.

2,163,209
WELDED STRUCTURAL ELEMENT
Wilhelm Püngel, Dortmund, Germany, assignor to Kohle und Eisenforschung G. m. b. H., Duesseldorf, Germany
Application February 17, 1938, Serial No. 191,082
In Germany April 21, 1937
3 Claims. (Cl. 189—37)



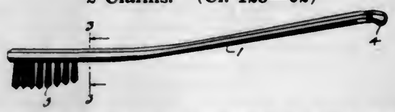
1. Composite welded constructional elements, comprising at least two parts each having a portion chamfered in peak shape, one of said parts having a longitudinal groove in the apex of its chamfered portion adapted to receive the apex of the chamfered portion of the other part, and a welding seam covering the chamfered portions of both parts.

2,163,210
BRAUN TUBE
Bruno Wienecke, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application October 9, 1936, Serial No. 104,862
In Germany October 14, 1935
1 Claim. (Cl. 250—150)



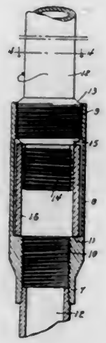
In a cathode ray tube comprising a beam gun anode, beam deflecting plates and an inside heated cylindrical insulator supporting the ray cathode and being surrounded by a cylindrical electrode, said insulator supporting a second cathode forming, in cooperation with a cylindrical grid and a cylindrical anode arranged inside of said cylindrical electrode, a thermionic amplifier, said both cathodes being connected with each other and said cylindrical anode being connected through an anode resistance arranged inside of said cathode ray tube to said beam anode, and through a condenser being arranged inside of said cathode ray tube to one of said deflecting plates, said grid being adapted to be connected to the scanning potential.

2,163,211
TOOTH BRUSH
William G. Wolf, Wilmerding, Pa.
Application March 1, 1937, Serial No. 128,479
2 Claims. (Cl. 128—62)



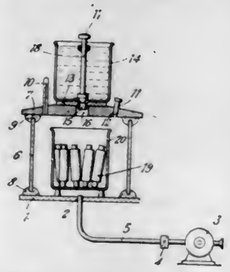
1. In a toothbrush including a head, a substantially flat handle inclined longitudinally for the major portion of its length at an outward angle to the plane of the outer side of the head, said inclined portion being tapered outwardly toward its outer end, and a gum massaging knob integral with the outer end of the inclined portion to form a portion of the handle, and said knob being laterally and inwardly tapered from its juncture with the handle to its outer end and being rounded and offset in a direction opposite to the direction of the inclination of the inclined portion.

2,163,212
TWO-WAY COUPLING
Frank A. Reddick, Ranchester, Wyo.
Application September 16, 1938, Serial No. 230,318
4 Claims. (Cl. 285—146)



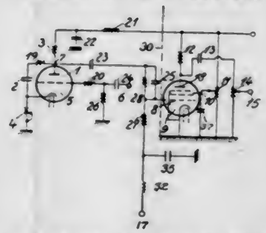
1. A two-way coupling, comprising a female member having an enlarged bore and a restricted bore, said restricted bore having a left hand thread and said enlarged bore having a right hand thread at its entrant end extending only partly the depth of the enlarged bore, and a male member having at one end a left hand thread to cooperate with the left hand thread of the female member and having a bulbous portion adjacent said one end which bulbous portion has a right hand thread, the construction being such that when the right hand threads of the male and female members are in engagement the left hand threads of the same are not in engagement and vice versa.

2,163,213
PROCESS AND DEVICE FOR THE PRODUCTION OF ELECTROLYTIC CONDENSERS
Berthold Springer, Berlin-Schoneberg, Germany
Application April 13, 1937, Serial No. 136,684
In Germany April 15, 1936
5 Claims. (Cl. 175—315)



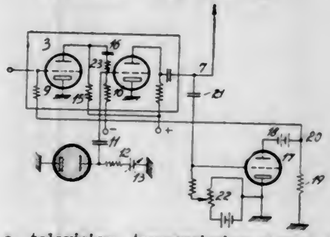
2. A process for impregnating electrolytic condensers having absorbent, porous, intermediate layers consisting in evacuating the condenser bodies, adding a supercooled solution of an electrolyte of the polyhydroxy alcohol, weak acid salt type, which has been heated until the solution has a boiling point of 125° C., to the evacuated condenser bodies so as to cover them, destroying the vacuum to which the condenser bodies are subjected and finally heating the bodies in the electrolyte solution until a boiling point of 132° C. is reached.

2,163,214
RELAXATION OSCILLATION GENERATOR
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application August 10, 1934, Serial No. 739,301
In Germany August 14, 1933
3 Claims. (Cl. 250—36)



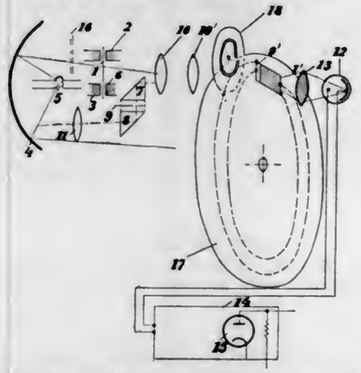
1. In a relaxation oscillation generating device comprising a gas-filled thermionic tube having cathode, anode and control grid, a first circuit including a storage condenser connected between said anode and cathode and a series circuit including a charging resistance connected between said anode and cathode and an amplifier having input and output, a braking resistance in said first circuit, circuit means connecting said grid to said cathode, the input of said amplifier being coupled by a second condenser to the common terminal of the first circuit and anode of said tube.

2,163,215
TELEVISION TRANSMITTER
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application April 5, 1935, Serial No. 14,846
In Germany April 6, 1934
3 Claims. (Cl. 178—7.1)



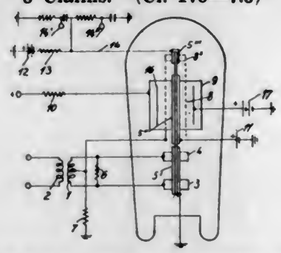
1. In a television transmission arrangement comprising means for transforming the picture to be transmitted into picture contents currents, means for generating synchronisation signals having a constant amplitude exceeding the greatest amplitude of said picture contents currents, two electronic amplifiers for amplifying said picture contents currents and said synchronisation signals, said electronic amplifiers containing a plurality of electronic valves, means for coupling the stages of said electronic amplifier with one another, means for mixing the output potentials of said two amplifiers, means for generating an ultra-short carrier wave and means for modulating said mixture onto said ultra-short carrier wave, a limiting device comprising a gas-filled discharge tube having anode and cathode, a D. C. potential source, a resistance and a condenser, said anode of said discharge tube being connected by means of said condenser to the input of one of said amplifier valves of said picture current amplifier, said D. C. potential source and said resistance connected in series across the discharge space of said discharge tube, said D. C. potential source being so adjusted as to limit the output potential of said picture current amplifier as not to exceed a pre-determined value below the constant output potential of said synchronising signal amplifier.

2,163,216
TELEVISION TRANSMISSION ARRANGEMENT
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application October 19, 1935, Serial No. 45,729
In Germany October 25, 1934
3 Claims. (Cl. 178—7.1)



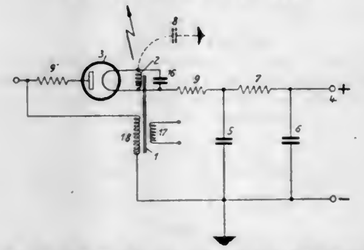
1. A television film transmitter arrangement for interlaced scanning comprising a scanning disc having two spirals of apertures, a photo-electric cell arranged in operative relationship thereto, means for projecting an image of the film to be transmitted onto said scanning disc, means for additionally projecting a light margin of great brightness onto one edge of said image projection, a slot in each of both spirals and means for producing line synchronizing impulses and frame synchronizing impulses by the light from the white margin impinging the photo-electric cell through the scanning apertures and the slots, respectively.

2,163,217
TELEVISION RECEIVER CIRCUIT
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application December 30, 1935, Serial No. 56,755
In Germany January 2, 1935
8 Claims. (Cl. 178—7.3)



3. A television circuit arrangement for receiving carrier oscillations modulated with a frequency mixture containing picture contents frequencies and synchronising frequencies comprising an input circuit with a transformer having a primary and a secondary coil, a double diode system for demodulating the carrier oscillations, an electrode-system for amplifying the demodulated frequencies, an electronic filtering system for filtering the synchronising frequencies from the modulated frequency mixture and an output circuit, said double diode system having two plates and a cathode, said carrier oscillations being applied to said transformer, from the secondary of which the oscillations are led in push-pull fashion to the plates of said diode system, said electrode-system for amplifying the demodulated frequencies having at least an anode, a cathode and a control grid, said control grid being directly connected to a centre tap of said secondary coil which is damped by a parallel resistance, the centre-tap being simultaneously connected to earth by means of an operating resistance, said electronic filtering system having a plate and a cathode being directly connected to the amplifying electrode system, said amplifying electrode system and said filtering system being connected with the output circuit from which the picture signals and the synchronising signals respectively are taken, said three electrode-systems for rectifying, amplifying and synchronising being arranged in the same envelope.

2,163,218
MAINS SUPPLY APPARATUS
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application March 23, 1936, Serial No. 70,426
In Germany March 29, 1935
2 Claims. (Cl. 175—363)

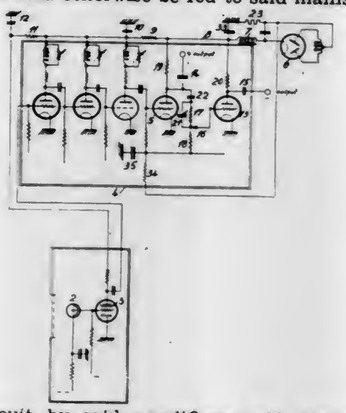


1. In a power supply apparatus for high voltage comprising a transformer having a primary connected to the mains, a high tension secondary and a low tension secondary, a rectifier tube connected to said high tension secondary and having a hot cathode heated by said low tension secondary, and smoothing elements for the rectified current, said cathode having such high voltage towards earth that by flashing disturbing high frequency oscillations are produced, a condenser shunting said low tension winding, said condenser having a capacity sufficient to detune said oscillations to a not interfering frequency.

2,163,219
STABILIZATION OF IMAGE AMPLIFIERS
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application July 23, 1936, Serial No. 92,151
In Germany July 25, 1935
4 Claims. (Cl. 179—171)

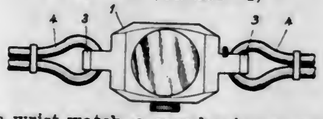
1. In an amplifier circuit arrangement for tele-

vision purposes also for amplifying very low frequencies comprising several amplifier tubes a mains supply circuit for supplying said stages with feed potential and filter-elements in the feed lines of the single amplifiers, an additional amplifier tube provided for applying to the feed lines neutralizing oscillations which are equal in magnitude but opposite in phase to oscillations which would otherwise be fed to said mains sup-



ply circuit by said amplifiers, said additional amplifier tube being coupled with its anode via its anode resistance to said mains supply circuit and with its grid via an adjustable potential divider to the anode of the final tube of said amplifier stage, the anodes of both said tubes being each connected via a condenser to a separate terminal only one of which is used as output terminal.

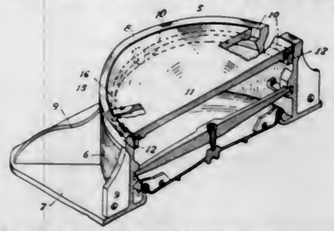
2,163,220
WRIST WATCH
Werner Schmitz, Soleure, Switzerland
Application May 4, 1937, Serial No. 140,761
In Switzerland June 5, 1936
2 Claims. (Cl. 224—4)



1. In a wrist watch, a case having a removable cover, lugs projecting from opposite sides of the case and each provided with a recess in its under side adapted to receive an end of a wrist band, said case being provided with an open notch, on each side thereof under the corresponding one of said lugs and opening into the corresponding recess, adapted to be closed by said cover when the latter is in closed position on said case, and a displaceable barring member for closing the recess in each lug, each of said barring members being secured at one end to the outer extremity of its associated lug and having its other end extending into the notch on the case and secured therein by said case cover.

2,163,221
MANHOLE STRUCTURE
Harvey Francis Slocum, Long Branch, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application December 24, 1937, Serial No. 181,708
1 Claim. (Cl. 94—34)

A manhole structure including a frame having an annular ledge spaced from the top of the frame and with cored openings at spaced intervals therein, a cover member seated on said ledge, and removable keys spaced at intervals around the periphery of said cover, said keys comprising an upper portion having a flaring tenon inserted into correspondingly shaped openings in the lower peripheral edge of said cover and a lower lug por-



tion of substantially rectangular formation depending therefrom and with its outer surface in alinement with the periphery of the cover, said keys so closely registering with the cover and with the cored openings in the ledge as to prevent rotation of the cover on the frame and offset any "jumping" tendency of the cover resulting from a deflection produced by a sudden load.

2,163,222
CONCRETE FORM
Le Roy W. Westcott, Hartford, Mich.
Application July 8, 1937, Serial No. 152,651
2 Claims. (Cl. 25—121)



1. Apparatus of the class described comprising a plurality of individual skeleton frames, each frame having an opening, an expansible core member separably connecting the frames and disposed in said opening, said core member having a plurality of U-shaped parts having side walls in overlapping relation, and wedge members entering the core members functioning dually to tighten the said parts against the frame and urge the overlapping portions of the side walls into contact.

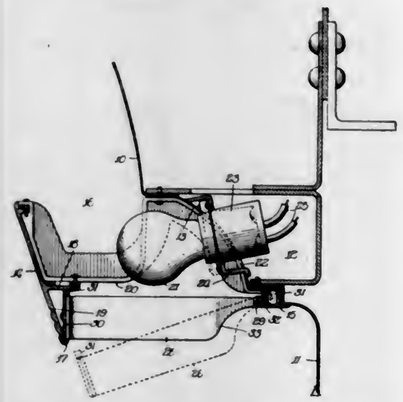
2,163,223
PROCESS FOR OBTAINING PRODUCTS OF POLYMERIZATION OF ACETYLENE
Mario Zavka, Terni, Italy, assignor to Ammonia Casale Società Anonima, Lugano-Massagno, Switzerland
No Drawing. Application July 31, 1936, Serial No. 93,742. In Italy November 9, 1935
1 Claim. (Cl. 260—678)

A process for simultaneously obtaining aromatic hydrocarbons and monovinylacetylene by thermic polymerization of acetylene consisting in causing acetylene to pass over a silver catalyst at a temperature of from 300° C. to 800° C., the parts of the apparatus employed for polymerising acetylene with which the hot acetylene comes in contact being constructed of a steel consisting of 0.01 to 0.05% carbon, an effective amount to 3.5% aluminum, 1% silicon, quantities less than 1% of molybdenum and vanadium, 4 to 24% chromium and the remaining substantially all iron.

2,163,224
METHOD OF PRODUCTION OF ALLOYS
Peter P. Alexander, Marblehead, Mass., assignor to Metal Hydrides Inc., Marblehead, Mass., a corporation of Massachusetts
No Drawing. Application October 25, 1937, Serial No. 170,850
16 Claims. (Cl. 75—22)

16. The method of production of alloys of a metal selected from a first group consisting of copper, nickel and silver and a metal selected from a second group consisting of the metals of the titanium sub-group of the fourth group of the periodic table of elements, which comprises mixing a powdered metal selected from the first group and a powdered metal selected from the second group and containing heat evolvable hydrogen therein, raising the temperature of the mixture until the hydrogen evolves from the metal and further raising the temperature until the metal of the first group forms a fused alloy with the metal of the second group.

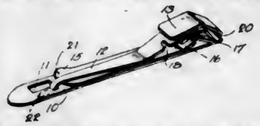
2,163,225
LIGHTING FIXTURE
Albert L. Arenberg, Highland Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Original application July 20, 1936, Serial No. 91,493. Divided and this application January 10, 1938, Serial No. 184,161
2 Claims. (Cl. 240—7.35)



1. In a lighting fixture, a trough characterized by a transversely curved reflector, a plurality of brackets, and a face plate supported by the brackets along one side of the reflector, lamp bulbs in the trough between the brackets, and closely spaced louver strips which extend across the open face of the trough from the face plate in planes at right angles to the axis of the trough, said louver strips being detachably secured to the trough in groups of several which are removable as units without disturbing the face plate.

2,163,226
HAIR CURLER
Louis Eisenman, Brooklyn, N. Y.
Application January 27, 1938, Serial No. 187,291
9 Claims. (Cl. 132—40)

1. In a hair retaining device of the character described comprising two shanks secured at one end and capable of relative movement at the opposite ends, and a latch for said opposite end in which all portions extend in the same general



direction, thereby to eliminate hooks or projections.

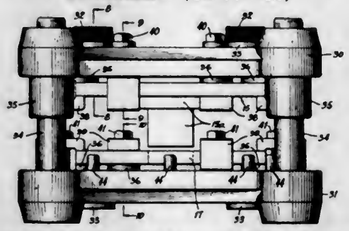
2,163,227
PROCESS FOR DESULPHURIZING ALKYL PHENOLS
Walter J. Hund and Samuel Benson Thomas, Oakland, and Daniel B. Luten, Jr., Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 22, 1937, Serial No. 175,876
11 Claims. (Cl. 260—624)

1. In the process of refining alkyl phenols containing aromatic mercaptans, the steps comprising blowing the alkyl phenols with air at a temperature between 0° and 90° C. while in solution of an alkaline-reacting liquid medium stable under the conditions of the treatment, for a time sufficient to convert mercaptides to disulphides which are largely insoluble in said solutions and form a separate phase, and removing the separated disulphides from the solution while maintaining a temperature below about 90° C.

2,163,228
SOAP PACKAGE
Joseph H. Jorling, Cincinnati, Ohio, assignor to The McDonald Printing Company, Norwood, Ohio, a corporation of Ohio
No Drawing. Application March 15, 1939, Serial No. 262,056
4 Claims. (Cl. 87—23)

1. A package comprising a bar of soap sealed in a sheet of wrapping material provided on one side with a heat-seal coating and on the other side with a moisture-, acid-, and alkali-resistant coating of vinyl resin adapted to counteract the emission of characteristic constituents of the soap for reducing wastage and deterioration thereof.

2,163,229
METHOD OF MAKING DIE UNITS AND COMPONENT PARTS THEREOF
Oscar Knebel, Fairfield, Conn., assignor to Daniel J. Williams, Bridgeport, Conn.
Application December 4, 1936, Serial No. 114,116
11 Claims. (Cl. 77—62)



1. The method of making die units for use with any one of a plurality of die-sets each having mounting holes of the same character and relative positions, which consists in securing one die unit in predetermined position on a master jig;

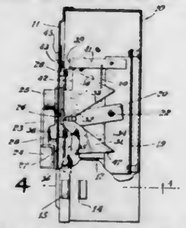
locating the complementary die unit on the master jig in working relation to the first die unit while the two units are nested in said relation; reciprocating the units to and from operating positions; movably adjusting the second die unit into final working alignment with the first die unit if necessary after reciprocating one unit toward and from operating position to test for alignment; fixing said die units against movement relative to each other at an angle to their working stroke; and drilling mounting holes in said die units through guide holes in the jig located in positions corresponding with cooperating mounting holes in any one of the plurality of die-sets with which said die units are to be used.

2,163,230

FRONT OPERATED SWITCH

Raymond N. Rowe, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut

Application January 20, 1938, Serial No. 185,895
15 Claims. (Cl. 200—50)



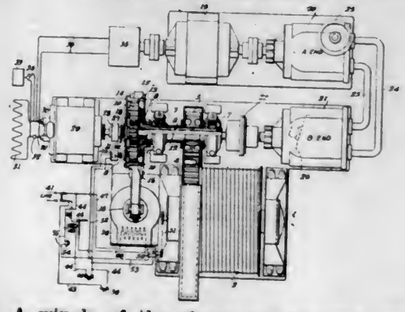
1. An enclosed switch including a box having a cover hinged thereto, a circuit breaker mounted in the box, an actuating handle carried by the cover, a slide carried by the cover and operatively connected with the handle and means for connecting the handle with the circuit breaker by the closing movement of the cover and automatically causing the circuit breaker and the handle to be respectively moved to their correct corresponding positions regardless of their previous relative positions.

2,163,231

AIRPLANE WINCH

John C. Smaltz, New York, N. Y., and Carl W. Kahlerth, Newark, N. J., assignors to McKiernan-Terry Corporation, New York, N. Y., a corporation of New Jersey

Application March 1, 1935, Serial No. 8,810
47 Claims. (Cl. 254—172)



1. A winch of the character disclosed, comprising a hoisting drum, a power unit for operating the same, rotatable holding means, differential gear driving connections from said power unit to said hoisting drum and to said rotatable holding means, including the following; internal and external gears, one driven by said power unit and the other arranged to rotate the rotatable holding means and interposed planetary gearing between and cooperating with said internal and external gears and operatively connected with said drum, and controllable braking means for holding the gear which rotates the rotatable holding means to effect application of the full power through said differential gear driving connections to said hoisting drum.

2,163,232

MANUFACTURING BORON FLUORIDE

Emile L. Baldeschwieler, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 28, 1937, Serial No. 139,502
5 Claims. (Cl. 23—205)

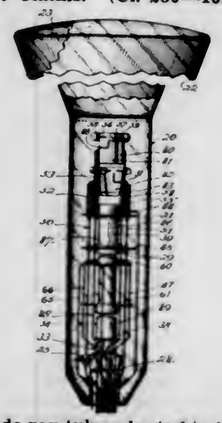
1. Process of producing boron fluoride which comprises heating a mixture of boric oxide and calcium fluoride having a molar ratio of B_2O_3:CaF_2 in between the approximate limits of 0.8 to 3.0 and heating said mixture to a temperature within the approximate limits of 900 and 1200° C. to evolve a substantial amount of boron fluoride gas.

2,163,233

CATHODE RAY TUBE

Jesse E. Brown, Chicago, Ill.

Application August 2, 1935, Serial No. 34,374
6 Claims. (Cl. 250—162)



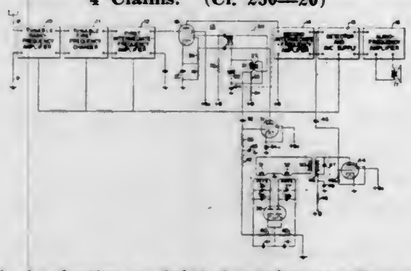
1. A cathode ray tube adapted to have its cathode rays focused, comprising an envelope evacuated to such a high vacuum that there are substantially no visible ionization effects, a source of electrons within said envelope and located at one end of said envelope, a translucent fluorescent screen carried by said envelope and located at an opposite end of said envelope, a focusing anode comprising an apertured electrical conducting diaphragm, located between said source and said screen, with its aperture in alignment with a beam of electrons from said source, said diaphragm being in a plane at substantially right angles to the direction of said beam, and an accelerating anode of the tubular type constructed of electrically conducting material and located between said focusing anode and said screen, said accelerating anode having a substantially larger diameter than the aperture in said diaphragm and having its axis in substantial alignment with said source and the aperture in said focusing anode, said diaphragm and tubular electrode being located close together but out of contact with each other and both being at a greater distance from said source of electrons than they are spaced from each other, said tube including means for supporting said anodes in said envelope and insulating said anodes from each other, the spacing of said focusing anode from said source depending upon the potential gradient adapted to be maintained between said anodes to cause the electron stream to be projected toward said screen and to produce a focus of the beam at a sharply defined point on said screen.

2,163,234

AUTOMATIC FREQUENCY CONTROL

Nelson P. Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application April 3, 1936, Serial No. 72,532
4 Claims. (Cl. 250—20)



1. A selective modulated-carrier signaling system comprising tunable frequency-changing means including a frequency-determining circuit for deriving from any selected modulated-carrier signal within a wide frequency range of such signals having a predetermined carrier-frequency separation a second modulated-carrier signal having a carrier normally of a predetermined frequency of an order of magnitude in kilocycles not greater than 100 but subject to deviations within narrow limits upon mistuning of said frequency-changing means, frequency-discriminating means selectively responsive to predetermined frequencies displaced above and below said predetermined frequency by an amount of the order of one kilocycle and at least a major fraction of one per cent. of said intermediate frequency, frequency-correcting means coupled to said frequency-discriminating means for adjusting said frequency-determining circuit to reduce the deviations of said second signal carrier frequency in a predetermined ratio of the order of 10 to 1, the reactive constants of said frequency-determining circuit, the reactive constants of said frequency-discriminating means, and the response characteristic of said frequency-correcting means being so related that deviations of said second signal carrier frequency effected by mistuning of said frequency-changing means beyond a predetermined amount of the order of but less than said predetermined frequency separation effect relaxation of said frequency-correcting means.

2,163,235

ELECTRIC CABLE

Clyde L. Chatham, Nutley, N. J.

Application October 2, 1935, Serial No. 43,226
4 Claims. (Cl. 174—107)

1. An electric service entrance cable which comprises an insulated conductor, a layer of fluffy resilient fibrous material enclosing said insulated conductor, wires wrapped helically about and embedded in separated open spiral



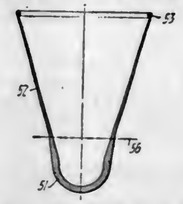
grooves formed by embedding said wires in said fibrous layer, and a plastic material saturating said fibrous material between said spiral grooves and coating and covering the surfaces of said wires facing the openings of said grooves.

2,163,236

BADMINTON BIRD

Robert T. Collier, Hillsborough, Calif.

Application July 29, 1938, Serial No. 221,954
2 Claims. (Cl. 273—106)



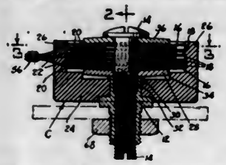
1. A shuttle for badminton and the like comprising a one piece shell structure having an hemispherical end symmetrically disposed about the longitudinal axis of said shell, said shell continuously flaring outwardly about said axis substantially uniformly and symmetrically from said end to provide a head and a vane portion for said shuttle, said vane portion terminating in a rim enlarged with respect to the immediately adjacent vane portion.

2,163,237

ELECTRICAL CONDENSER

Joseph A. Flanzer, Laurelton, Long Island, N. Y., assignor to Electro-Motive Manufacturing Co., Inc., New York, N. Y., a corporation of New York

Application August 13, 1936, Serial No. 95,751
9 Claims. (Cl. 175—41.5)



1. A small fixed-adjustable condenser comprising a metallic bushing which is externally threaded to receive a nut for mounting the condenser in place, and which is internally threaded to receive an adjusting screw, an insulation member mounted around the bushing, a rigid metallic washer disposed at the inner end of the bushing, a plurality of condenser plates over said washer, said washer operating to keep said plates away from said member, said insulation member being provided with means to support the plates against relative lateral movement, thin sheets of mica dielectric disposed between said plates, said plates being so relatively bent as to normally space the same apart, and an adjusting screw

passing through said plates and threadedly received in said bushing for compressing the plates together and thereby determining the capacitance of the condenser, the arrangement being such that the adjustment is determined solely by metallic and mica parts and is independent of the insulation member.

2,163,238

PROCESS FOR THE MANUFACTURE OF POLYMER CARBOXYLIC ACIDS AND DERIVATIVES THEREOF

Karl Hamann, Krefeld-Uerdingen, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application June 18, 1938, Serial No. 214,571. In Germany June 23, 1937
18 Claims. (Cl. 260—84)

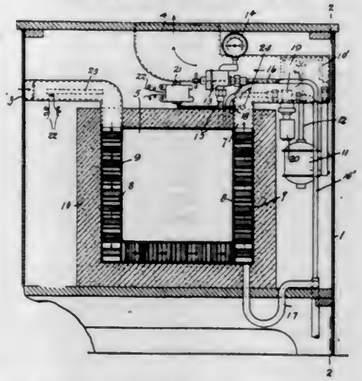
1. Process for the manufacture of polymerisation products by reacting with an alkaline condensing agent upon a compound comprising one crotylidene cyanacetic acid radicle in the molecule in the presence of a compound comprising at least two crotylidene cyanacetic acid radicles in the molecule.

2,163,239

AIR CONDITIONING UNIT

Hiram R. Harding, Baltimore, Md.

Application June 15, 1937, Serial No. 148,311
2 Claims. (Cl. 62—91.5)



2. An air-conditioning unit comprising a cabinet having a door therein, a dry ice chamber within said cabinet having a door in line with the door in said cabinet, an air passage surrounding said chamber and having an inlet and an outlet, a fan to draw the air through said air passage and discharge it through said outlet, a pipe communicating with the said air chamber to carry off the water of condensation, a pipe leading from said chamber to the said water pipe, a valve in said pipe leading from said chamber to control the gas pressure therein, a second pipe leading from said chamber to the said condensation pipe, and means to open and close communication therebetween.

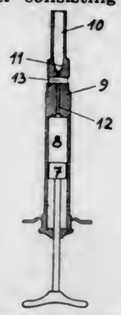
2,163,240

DEVICE FOR FILLING PNEUMATIC INJECTION SYRINGES

Conrad Hofmann, Leverkusen-I. G. Werk, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

Application October 8, 1936, Serial No. 104,570
In Germany October 10, 1935
2 Claims. (Cl. 226—125)

1. A device for filling a pneumatic injection syringe having a closure stopper and a discharge needle which comprises a filling pump provided with a connecting member designed to join the closure stopper and discharge needle of the syringe, said member consisting of a tube having



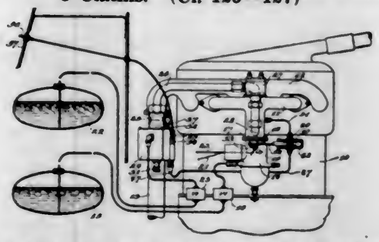
a diameter sufficiently wide to receive the closure stopper, but tapering off conically towards the pump to form a narrow boring into which the needle penetrates in operative assembly of the pump and syringe, and having a suction channel which crosses the said boring.

2,163,241

METHOD AND APPARATUS FOR UTILIZATION OF LOW GRADE FUEL IN INTERNAL COMBUSTION ENGINES

Horace H. Huber, Chicago, Ill., assignor to Charles A. Pipenhagen, Chicago, Ill.

Application July 24, 1936, Serial No. 92,282
5 Claims. (Cl. 123—127)



1. A carburetor system for an internal combustion engine having an intake manifold, a carburetor having a manually operated throttle for controlling the supply of one fuel to the manifold, a carburetor having a valve for controlling the supply of another fuel to the manifold, manifold suction responsive means controlled by the manually operated throttle for opening said valve, and thermo-responsive means for controlling the opening of the said valve.

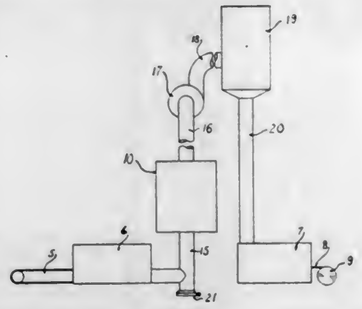
2,163,242

APPARATUS FOR MAGNETICALLY CLEANING COTTON

William Kagan, St. Louis, Mo.

Application May 14, 1938, Serial No. 207,867
2 Claims. (Cl. 19—67)

1. In an apparatus of the kind described, a vertically arranged conduit, a clean-out door at the lower end of the conduit, an electro-magnetic housing interposed in the conduit and forming a continuation of the conduit, the housing having magnet poles protruded interiorly at opposite inner walls and in a spaced relation with the intervening space between the poles forming a vertical continuation of the conduit, a blow chamber connected at the upper end of the conduit, a delivery conduit leading downward from the bottom of the blow chamber, and means for propelling a stream of loose cotton upwardly through the conduit and magnetic housing into the blow



chamber whence it will fall by gravity through the delivery conduit.

2,163,243

PLASTIC COMPOSITION

John A. Kenney, Plainfield, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 6, 1936, Serial No. 72,977
2 Claims. (Cl. 260—3)

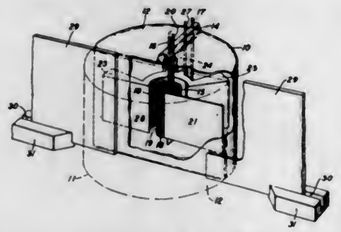
1. A self-hardening plastic composition of matter comprising from 2 to 5 parts by weight of paracoumarone resin-like material selected from the group consisting of paracoumarone resin and petroleum resin, from 1 to 4 parts by weight of chlorinated rubber, from 3 to 15 parts by weight of volatile solvent for said paracoumarone resin-like material and chlorinated rubber and a sufficient amount of solid, finely divided filler to impart to said composition a doughy, putty-like consistency.

2,163,244

SIGNAL TRANSLATING APPARATUS

Reymond J. Kircher, Asbury Gables, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 30, 1936, Serial No. 88,141
20 Claims. (Cl. 250—27.5)



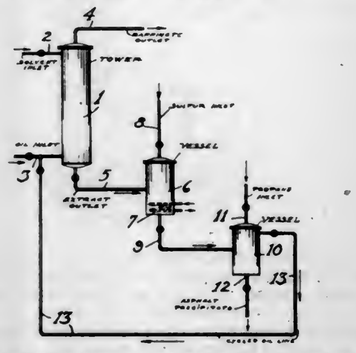
1. Signal translating apparatus comprising a pair of enclosing vessels having juxtaposed walls and each housing a plurality of electrodes, and means including plate members immediately adjacent said walls and within said vessels forming a condenser capacitively coupling an electrode within one vessel to an electrode within the other vessel.

2,163,245

TREATMENT OF SOLVENT EXTRACTS

Kenneth C. Laughlin, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 15, 1937, Serial No. 148,255
11 Claims. (Cl. 196—13)



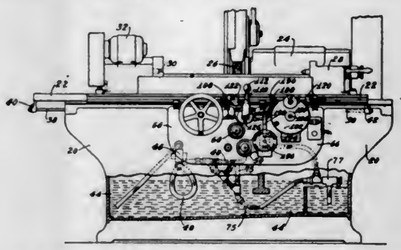
1. Process for recovering valuable oil fractions from extracts obtained in the selective solvent extraction of lubricating oils with solvents of the class which have a preferential selectivity for the more aromatic type compounds as compared to the more paraffinic type compounds which comprises digesting the extract with sulfur at a high temperature for a prolonged period, cooling the digested mass to a somewhat lower temperature, adding several volumes of an asphalt precipitating solvent thereto, removing the asphaltic material so caused to separate and recovering oil from the remaining solution.

2,163,246

GRINDING MACHINE

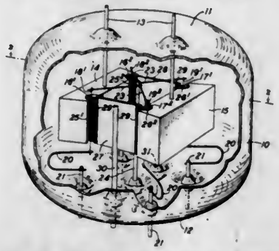
George F. Maglott, Wrentham, Mass., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island

Application May 18, 1937, Serial No. 143,314
27 Claims. (Cl. 51—95)



1. In a grinding machine having a rotary grinding wheel, a wheel support and a work support, the combination of driving and reversing mechanism for reciprocating one of said supports, a cross feed for imparting relative feeding movements to the grinding wheel and work comprising a ratchet and pawl, a rotary fluid motor connected to reciprocate the pawl, means including a pressure connection to the motor for continuously driving the motor to effect a continuous operation of said cross feed mechanism, and means including a fluid pressure admission valve associated with the motor for driving the motor through a limited angle to effect an intermittent operation of said cross feed mechanism.

2,163,247
ELECTRON DISCHARGE APPARATUS
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 26, 1937, Serial No. 127,899
11 Claims. (Cl. 250—27.5)



8. Electron discharge apparatus comprising a pair of anodes, a pair of control electrodes each having spaced portions adjacent said anodes, a plurality of cathodes each of which is disposed adjacent a corresponding one of said spaced portions, means electrically connecting said cathodes at one end, and individual leading-in conductors connected to the other end of said cathodes.

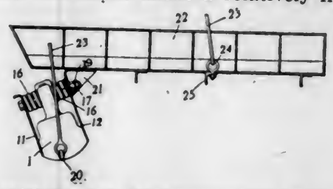
2,163,248
SAW-FILING TOOL
Eugene A. Sedlmayr, Delavan, Wis.
Application August 9, 1937, Serial No. 158,190
2 Claims. (Cl. 76—47)



1. A jointer tool for simultaneously jointing the cutting and raker teeth of a saw, comprising a body forming a saw blade guard, inverted substantially U-shaped saddles uppermost with respect to said body, adjusting screws arranged opposite each other and disposed transversely threaded in said saddles, and a plurality of files arranged side by side and clamped by said screws so that the cutting edge of the middle file is slightly below that of the cutting edges of the other files in order to enable jointing the raker teeth along with the cutting teeth.

2,163,249
MEANS FOR VIBRATING SCREENS AND THE LIKE
Joseph William Sherwen, Erith, Kent, England, assignor to The General Electric Company, Limited, London, England
Application June 30, 1937, Serial No. 151,088
In Great Britain July 7, 1936
7 Claims. (Cl. 209—368)

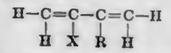
1. Means for vibrating screens and the like comprising a member to be vibrated, a body portion, connecting means between said member and the body portion for supporting said member for vibration, an electromagnet fixedly mounted on said body portion and arranged to cooperate with an armature resiliently supported by the body portion for vibration relative to the magnet when the latter is intermittently energized, means for supporting said body portion for oscillatory movement about a relatively fixed axis



when said magnet is intermittently energized for vibrating the armature, and coil springs interposed between said armature and the body portion and between said body portion and the connecting means for transmitting vibrations to said member to be vibrated.

2,163,250
POLYMERIZATION OF HALOGEN CONTAINING UNSATURATED COMPOUNDS AND PRODUCTS PRODUCED THEREBY
Howard Warner Starkweather, New Castle County, and Arnold Miller Collins, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 19, 1936, Serial No. 69,737
27 Claims. (Cl. 260—89)

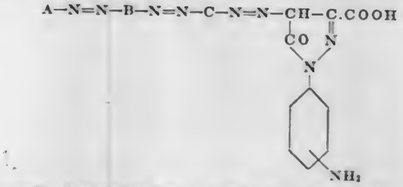
1. The process which comprises polymerizing, in the presence of hydrogen sulfide, a compound of the general formula



in which X is halogen and R is a member of the group consisting of hydrogen and hydrocarbon radicals.

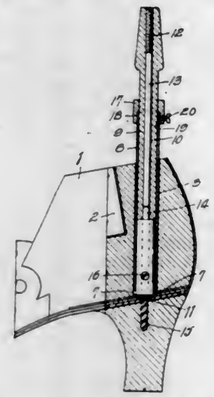
2,163,251
AZO DYESTUFFS
Fritz Suckfüll, Leverkusen-Wiesdorf, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application December 23, 1936, Serial No. 117,340. In Germany January 9, 1936
3 Claims. (Cl. 260—159)

1. Azo dyestuffs having in their free state the following general formula:



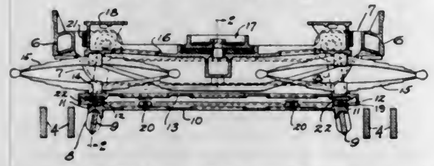
wherein A stands for a radical of the class consisting of benzene and naphthalene radicals, their homologues and alkoxy substituents which do not contain further diazotizable amino groups, B stands for a member selected from the group consisting of benzene and naphthalene radicals, their homologues and alkoxy substituents wherein the two azo groups are in para-position to each other, one of the radicals A and B containing at least one sulfonic acid radical, and C stands for a member selected from the group consisting of radicals of aroyl-amino-naphthol-mono- and disulfonic acids, the azo group attached to the pyrazolone nucleus being also attached to the aroyl radical of said sulfonic acid, yielding in general brown shades.

2,163,252
METHOD OF AND MEANS FOR ATTACHING HEELS TO SHOES
Harold B. Wood, Jennings, Mo.
Application January 12, 1937, Serial No. 120,196
2 Claims. (Cl. 145—128)



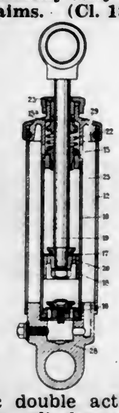
2. A tool of the class described having, in combination, a shank having a longitudinal bore therethrough, a counter-sink cutter formed on the lower end of the shank, a drill insertable into the shank bore, means for adjustably securing the drill in position, means adjustably carried in the bore of the shank serving as a stop for the inner end of the drill, a sleeve mounted on the shank, a reversible collar adjustably secured to the shank to serve as a stop to limit downward movement of the shank relative to the sleeve, and means for connecting the sleeve and the collar to rotate as a unit when desired.

2,163,253
RAILWAY TRUCK
Emil C. Anderson, Downers Grove, Ill.
Application June 16, 1937, Serial No. 148,455
6 Claims. (Cl. 105—186)



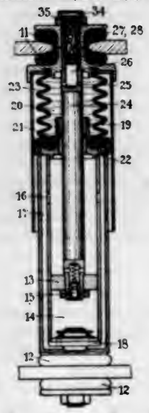
1. In a railway truck, a rigid frame, hangers pivotally suspended from said frame to swing transversely of the truck, a beam member carried by said hangers, there being upwardly facing concave arcuate seats on said member, roller elements in said seats, downwardly facing concave arcuate bearings on said elements, the chords of the arcs of said seats and bearings being disposed transversely of the truck, a spacer extending between said bearings at opposite sides of the truck, and bolster structure spring mounted on said bearings.

2,163,254
HYDRAULIC SHOCK ABSORBER WITH REGULATING DEVICE
Richard Binder and Hermann Klein, Schweinfurt, Germany
Application May 13, 1937, Serial No. 142,398
In Germany May 16, 1936
8 Claims. (Cl. 188—88)



1. A hydraulic double acting shock absorber including a pump cylinder, a piston reciprocable therein, a piston rod connected to said piston, a casing enclosing said cylinder and serving as a liquid container for the return flow, means for permitting passage of liquid from said cylinder to said container only in one direction and including a spring loaded non-return valve at the head of the cylinder axially disposed with respect to said cylinder and controlling the liquid flow between the interior of said cylinder and said liquid container, a threaded rotatable member co-axial with said cylinder and accessible for rotation from the outside of the shock absorber without the necessity of dismantling any part of said absorber, and means responsive to the rotation of said rotatable member for regulating the tension of the spring in said valve.

2,163,255
HYDRAULIC SHOCK ABSORBER OF THE PISTON AND CYLINDER TYPE
Richard Binder and Hermann Klein, Schweinfurt, Germany
Application September 26, 1938, Serial No. 231,701
In Germany April 2, 1938
6 Claims. (Cl. 188—88)



1. In a hydraulic shock-absorber of the piston

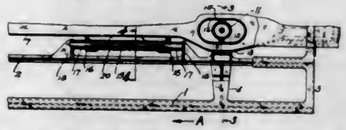
and cylinder type, in combination a protective sleeve of yieldable material surrounding the portion of the piston rod projecting out of the cylinder, said sleeve being secured at one end for movement with the cylinder, and secured at its other end for movement with said piston rod, and valve means for relieving the pressure of the air in said sleeve to the atmosphere when the pressure therein exceeds a predetermined amount, and for permitting air from the atmosphere to enter said sleeve when the pressure therein falls below a predetermined amount.

2,163,256
CATHODE RAY TUBE
Allen B. Du Mont, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Upper Montclair, N. J., a corporation of Delaware
Application September 18, 1934, Serial No. 744,498
2 Claims. (Cl. 250—162)



1. A cathode ray tube having beam producing means comprising a concentrating cylinder, an insulating cylinder having two holes therethrough, a spacer connecting said insulating cylinder with said concentrating cylinder, a tungsten wire filament threaded through the holes in said insulating cylinder, a molybdenum wire secured to said tungsten filament, and an oxide coating on the tip of said molybdenum wire.

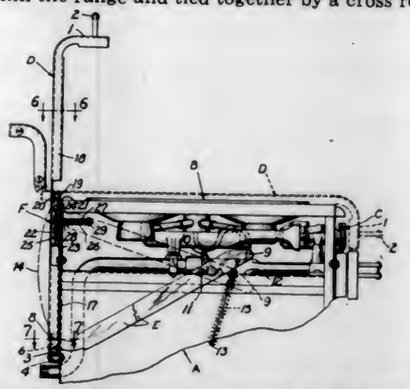
2,163,257
RAILWAY VEHICLE
Einar G. Hallquist, Wallingford, and William M. Sheehan, Merion, Pa., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application April 13, 1935, Serial No. 16,144
9 Claims. (Cl. 213—8)



1. In a railway vehicle, a frame including spaced sills, a floating center structure located between said sills for transmitting draft and buffing forces between adjacent vehicles, elements on said structure extending towards said sills, a plurality of elements on said sills extending towards said structure, corresponding pairs of said elements overlapping each other lengthwise of the car, and an individual shock absorbing mechanism including yielding means extending between the elements of each pair of said center structure elements, and follower members extending between said yielding means and said sill elements and passing through said structure elements.

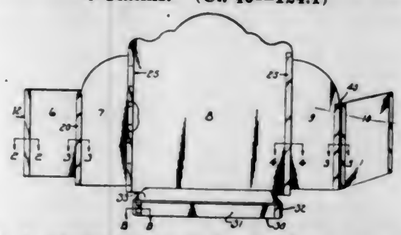
2,163,258
TOP COVER FOR KITCHEN RANGES
James Joseph Lautz, O'Fallon, Ill., assignor to Eureka Products Corporation, O'Fallon, Ill., a corporation of Illinois
Application December 23, 1936, Serial No. 117,324
7 Claims. (Cl. 126—214)

2. A top cover for kitchen ranges, the said top cover movable up and down from a horizontal to a vertical position, the movement of said top cover controlled by levers, the end of the said levers connected to the rear of said cover, the intermediate part of said levers being positioned within the range and tied together by a cross rod,



the said rod supported in bearings, so as to allow the said levers to swing up or down, the said cover connecting to said lever being movable at once from a horizontal position to a vertical position, the rear end of said cover following the arc described by the rear end of said levers where connected to the rear of said cover.

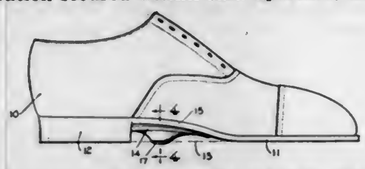
2,163,259
DISPLAY BACKGROUND CONSTRUCTION
Harold H. Moore, Cleveland, Ohio, assignor to Bushman-Moore Incorporated, Cleveland, Ohio, a corporation of Ohio
Application December 17, 1938, Serial No. 246,396
6 Claims. (Cl. 40—124.1)



3. A display background comprising a series of panels arranged side by side, certain of said panels offset in a non-coplanar position with respect to other panels of the background, means to secure said panels to each other including a member having a vertical channel at each vertical edge thereof adapted to embrace and conceal the vertical edge of an adjacent panel, one side wall of said channel being provided with a plurality of spaced metal members projecting into said channel and spaced from the opposite side wall to engage and hold the panel therein.

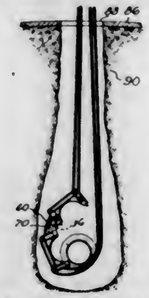
2,163,260
ARCH SUPPORTER
Alexander I. Netkowski, New York, N. Y.
Application June 17, 1938, Serial No. 214,193
3 Claims. (Cl. 36—76)

1. In combination with an article of footwear, arch protecting means comprising a base portion variantly attached to a desired portion of the shank of the footwear, said base portion being provided with an aperture of substantially cylindrical configuration, and a tread member having its body portion of substantially cylindrical configuration secured within said aperture, the face



of the portion of said tread member extending beyond said aperture being relatively enlarged and engaging in face to face relation contiguous portions of said base member, the exposed face of said tread member serving as a tread face in the use of the article of footwear.

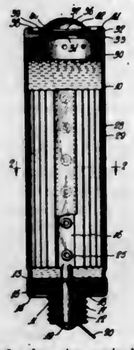
2,163,261
METHOD OF APPLYING PIPE JOINT CLAMPS
Charles E. Norton, Chicago, Ill., assignor to Norton-McMurray Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 3, 1938, Serial No. 228,421
5 Claims. (Cl. 138—97)



1. That method of repairing a leak in a pipe located in the ground beneath a paved surface which comprises forming an opening in the pavement by removing an area of pavement too small to admit a man, digging a hole in the ground from this opening to the leak in the pipe, cleaning a pipe surface adjacent the leak by a tool manipulated from the surface of the pavement, lowering a hinged clamp into position about the leak in the pipe by ropes manipulated from the surface of the pavement, and securing said clamp in sealing position about said leak by tools manipulated from the surface of the pavement.

2,163,262
ELECTROLYTIC CELL
Howard E. Rhodes, Floral Park, N. Y., assignor to Aerovox Corporation, Brooklyn, N. Y., a corporation of New York
Application August 9, 1935, Serial No. 35,474
7 Claims. (Cl. 220—44)

7. In an electrolytic condenser, the combination of a can having a central perforated unitary end wall and an upstanding peripheral lip, a flexible rubber washer resting against said end wall and substantially contacting the inner periphery of said lip and having a central pinhole, a phosphor-bronze, centrally perforated dished washer superposed over said rubber disk with its outer rim upstanding, a metal hood member having a shoulder engaging said rim and having a flat rim against said rubber washer, said lip being rolled



over against said rim to retain the parts in assembled condition.

2,163,263
COMBINED MOTION PICTURE PROJECTOR AND SOUND REPRODUCER
Louis J. Simons, New York, N. Y., assignor to Sound Products Co. Inc., a corporation of New York
Application February 6, 1936, Serial No. 62,553
4 Claims. (Cl. 88—16.2)

1. In a combined motion picture projector and photographic sound record reproducer, the combination of a photographic film having pictures and a sound record thereon and carried by a feed reel, a picture projector, a continuous feed sprocket for feeding the film to the projector from said reel, a device for intermittently feeding the film through the projector from which the film travels in a loose loop, a light sensitive device contained in a housing located below the picture projector, a tubular aperture block over which the film travels adjacent said light sensitive device, a lens tube and exciter lamp housing mounted adjacent said block, said lens tube having a sliding fit in said block and adapted to project a light beam into the aperture from the interior of the block, a film tensioning guide adjacent the aperture block for engaging the loose film loop in advance of the aperture, a freely rotating roller over which the film travels after passing over the aperture, a fly-wheel on the spindle of said roller, a second freely rotating roller closely adjacent the first named roller over which the film travels in reverse direction, a continuously rotating feed sprocket adjacent the

first named roller engaging the section of film travelling from said second roller, the axes of said rollers and sprocket being approximately in the same plane whereby the film section passing around said second roller is caused to contact the major part of its periphery, and a guide roller around which the film passes to a take-up reel.

2,163,264

CONDENSATION PRODUCTS FROM FORMALDEHYDE AND UREA

Otto Süssenguth, Erkner, near Berlin, Germany, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin, Germany

No Drawing. Application April 19, 1937, Serial No. 137,768. In Germany April 28, 1936

11 Claims. (Cl. 260—45)

7. A process for the manufacture of resinous, fusible condensation products which comprises intimately mixing in the absence of liquids solid urea and solid polymeric formaldehyde in the presence of phenolaldehyde resins at room temperature of about 15° to 25° C., and causing to react said urea and said polymeric formaldehyde by storing the mixture obtained at a low temperature of about 15° to 35° C. until the smell of formaldehyde has substantially disappeared.

2,163,265

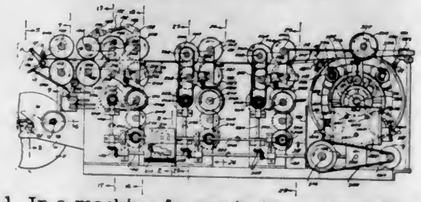
MACHINE FOR MANUFACTURING BAG TUBES

Harry E. Townsend, Brooklyn, N. Y.; Title Guarantee and Trust Company, executor of said Harry E. Townsend, deceased, assignor to Bartlett Arkell, New York, N. Y.

Application July 1, 1933, Serial No. 678,644

Renewed December 2, 1938

49 Claims. (Cl. 93—81)



1. In a machine for use in the manufacture of bag tubes of the class described, the combination of strip feeding and winding means comprising a mandrel for winding the advancing end portion of the strip upon itself, means for forming a transverse line of perforations in the strip at a predetermined point in its travel to the mandrel, and means for severing the strip on said line of perforations when a predetermined portion of the strip has been wound on the mandrel, said strip feeding means feeding the strip continuously.

2,163,266

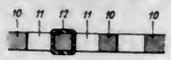
DOUBLE MOSAIC SCREEN

Bernhard Bartels, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application January 9, 1937, Serial No. 119,723

In Germany December 24, 1935

5 Claims. (Cl. 250—27.5)



1. In a double mosaic screen for cathode ray tubes in which a photosensitive material is deposited on one face of a number of discrete conductors passed through apertures in a metallic support, the method of assembling said screen which comprises the steps of oxidizing the surface of the apertures of the support so as to form an insulating surface thereon, next filling the apertures with a metallic oxide, subsequently reducing the oxide, and finally depositing photosensitive material on one face of the metal obtained by the reduction.

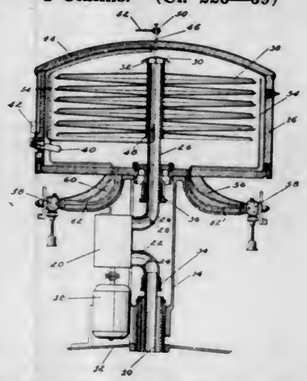
2,163,267

COMBINATION CARBONATING AND BOTTLE FILLING MACHINE

William E. Bostelmann, Elmwood Park, Ill.

Application April 13, 1936, Serial No. 74,095

4 Claims. (Cl. 226—69)



4. A combination carbonating and bottle filling mechanism, including a fixed liquid intake pipe, a carbonating chamber rotatably mounted thereon, and means for introducing liquid and carbon dioxide into the chamber, said means including a motor and pump for the liquid below the chamber and rotatable therewith.

2,163,268

METHOD FOR MAKING CYCLIC ESTERS

Wallace Hume Carothers, Arden, and Julian Werner Hill, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 12, 1933, Serial No. 701,980

9 Claims. (Cl. 260—338)

1. The process of preparing the lactone of ω-hydroxypentadecanoic acid which comprises boiling a mixture of one part of ω-hydroxypentadecanoic acid in at least 1,000 parts of dry xylene, to which has been added .01 of one part of paratoluenesulfonic acid, for at least 60 minutes and then slowly distilling off the xylene and water of reaction.

2,163,269

TREATMENT OF MOTOR FUEL

Joseph A. Chenicek, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 28, 1937, Serial No. 150,761

4 Claims. (Cl. 196—13)

1. A method for segregating the relatively high antiknock constituents of gasolines from those of relatively low antiknock value which comprises subjecting said gasolines to the selective solvent action of cinnamaldehyde, separating a lower layer consisting of a solution of the relatively high antiknock constituents in cinnamaldehyde and an upper layer comprising principally the low antiknock constituents and separately recovering the relatively high and the relatively low antiknock fractions.

2,163,270

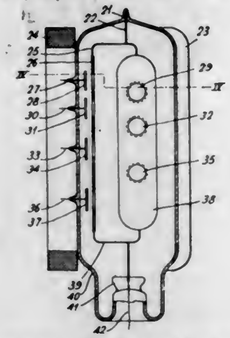
ELECTRON DISCHARGE DEVICE

Frederik Coeterier, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands

Application July 20, 1937, Serial No. 154,541

In Germany July 28, 1936

3 Claims. (Cl. 250—166)



1. An electronic discharge device comprising an envelope, a photo-cathode and an anode, means positioning said cathode and anode in a common plane and displaced from each other, electron accelerating means positioned near said cathode and said anode, an impact electrode, means maintaining said impact electrode in a plane at an angle to the plane of said cathode and anode, the axis of said impact electrode being substantially midway between the axes of said cathode and said anode, electron accelerating means positioned adjacent said electrode, and means for creating a curved magnetic field parallel to the axes of said cathode, anode and impact electrodes.

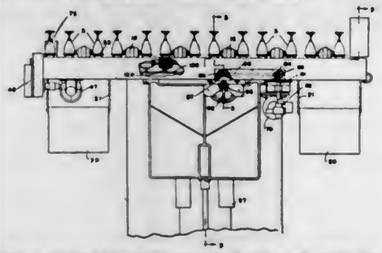
2,163,271

ENGRAVING APPARATUS

Everett J. Cook, Toledo, Ohio, assignor to H. H. Buggie & Company, Toledo, Ohio, a corporation of Ohio

Application August 15, 1938, Serial No. 224,986

27 Claims. (Cl. 51—100)



1. In apparatus for producing a design in the surface of an article, means supporting an article having a surface on which a record is to be reproduced, a tool supported opposite said surface of the article, means controlled by the record for relatively moving the article supporting means and tool toward and away from each other, means for relatively moving the article supporting means and tool to maintain the same relationship between the tool and surface of the article irrespective of variations in shape of said surface, and means responsive to variations in shape of the article surface for controlling the operation of said last named means.

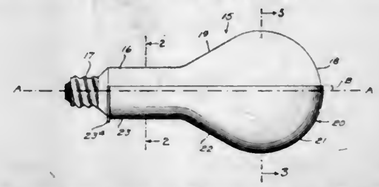
2,163,272

ILLUMINATION

Harvey Deschere, New York, N. Y., assignor to Julian B. Beaty, Rye, N. Y.

Application September 15, 1934, Serial No. 744,141

4 Claims. (Cl. 240—103)



1. In construction of the character described, in combination, a light bulb having a cylindrical glass part of substantial length and in the axis of which is the source of light and a light-controlling member made of a single piece of sheet material having spring qualities and curved about an axis parallel to said first-mentioned axis and being closely fitted to said cylindrical part throughout sufficiently more than 180° of the latter to provide opposed substantially straight-lined ends that are parallel to each other and to said axis about which said sheet material is curved, forming a mouth bounded only by two straight-lined ends between which said cylindrical glass part is movable in a direction to maintain its axis and said axis of curvature parallel and which may yield away from each other under the spring action of the material and respectively in directions away from said axes to pass over or to pass therebetween, upon relative movement of said bulb and member in a direction to bring said two axes toward each other, the major diameter of said cylindrical part, the spacing between said parallel straight-lined ends of said mouth, after said glass part and said light-controlling member are assembled as aforesaid, being substantial and on the order to expose therebetween somewhat less than 180° of said cylindrical glass part.

2,163,273

ILLUMINATION

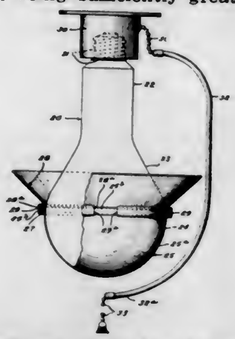
Harvey Deschere, New York, N. Y., assignor to Julian B. Beaty, Rye, N. Y.

Application May 18, 1936, Serial No. 80,437

6 Claims. (Cl. 240—78)

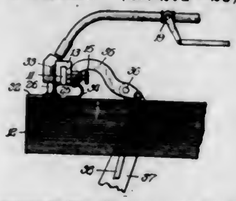
1. In lighting construction, in combination, a source of light in the form of a bulb of round cross-section, but having portions thereof to either side of a major diameter that are of less diameter than said major diameter, a light-controlling member having portions adapted to be seated against that portion of said bulb on one side of said major diameter and having means forming an inwardly open seat facing toward said bulb and extending in juxtaposition to that portion of said bulb on the other side of said major diameter, and an inherently contractable

ring member resting in and throughout the length of said seat, the dimensions of said seat and the normal or inherent contraction of said ring member being proportioned so that the ring member remains seated in said seat and assembled to said light-controlling member before the latter is assembled to said bulb and thereby to form a self-contained unit, the maximum internal diameter of said seat being sufficiently greater than the



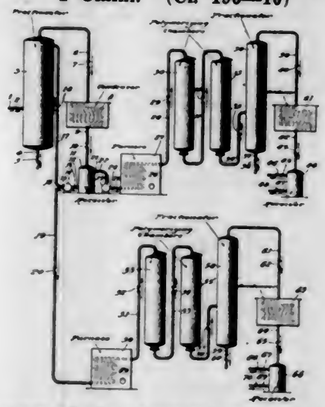
normal outside diameter of said ring member to permit the latter to expand sufficiently to receive therethrough the major diametered portion of said bulb when said unit it thrust onto the latter to bring said contractable ring member into engagement with that portion of said bulb on the other side of said major diameter thereby by its contraction acting to draw and hold said light-controlling member with its said portions seated against said first-mentioned portion of said bulb.

2,163,274
SHEET SEPARATOR AND FEEDER
John G. Dixon, Chicago, Ill., assignor to Otho D. Beall, Chicago, Ill.
Application May 29, 1937, Serial No. 145,533
9 Claims. (Cl. 271—26)



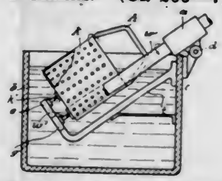
1. In an apparatus for successively separating the top-most sheets of a pile individually and conveying the same away from the pile, the combination of a member having a downwardly-facing cylindrical cavity, a plunger reciprocatory in said cavity, a hollow resilient suction-cup mounted on and movable with said plunger, conduit means connecting the interior of said suction-cup with said cavity, a stop in and near the mouth of said suction-cup limiting the degree of flexure of the sheet in said suction-cup without interfering with the continuance of the suction in the cup acting on the sheet, a spring tending to force said plunger and suction-cup down, means limiting the descent of said plunger and suction-cup, means to apply and to terminate the application of suction in said cavity and suction-cup, one or more buckle-gauges mounted on and movable with said member, and means to move said member and associated elements to cause said gauge or gauges and suction-cup to engage the top sheet of a pile, to separate such sheet from the pile, and to convey it away, the applied suction in said cavity overcoming the action of said spring and raising the plunger and the suction-cup.

2,163,275
TREATMENT OF HYDROCARBON OILS
Bernard J. Flock and Edwin F. Nelson, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 14, 1936, Serial No. 95,996
1 Claim. (Cl. 196—10)



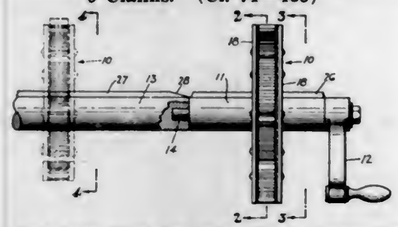
A process which comprises stabilizing cracked hydrocarbon distillate to remove normally gaseous hydrocarbons therefrom, subjecting the evolved gases to partial liquefaction to form a liquid phase of relatively high olefin content and a gaseous phase of lower olefin content, said stabilization and partial liquefaction being effected under substantial superatmospheric pressure, supplying the liquid phase material, without lowering the pressure thereon, to a polymerizing zone and therein subjecting the same to catalytic polymerization in the absence of the material of said gaseous phase and under sufficient superatmospheric pressure to maintain a substantial portion thereof in liquid condition, supplying the gaseous phase material to a second polymerizing zone maintained under lower pressure than the first-named zone and subjecting the same therein to vapor phase polymerizing conditions.

2,163,276
APPARATUS FOR CLEANING METALLIC ARTICLES
Rudolf Fritzsche and Arno Bauer, Berlin-Charlottenburg, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application August 3, 1937, Serial No. 157,076
In Germany November 24, 1936
3 Claims. (Cl. 266—7)



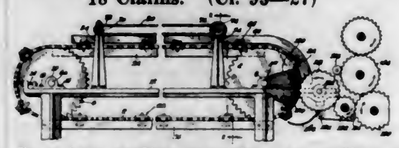
1. A cleaning apparatus for cleaning articles in a liquid, comprising a perforated cylindrical tumbling basket containing the articles, a tank containing the cleaning liquid, inclined rollers journalled adjacent to the tank edge and spaced substantially in parallel to one another and extending a suitable distance into the liquid, said basket being removably supported on the periphery of said rollers to be rotated in the liquid when both rollers are driven in the same direction, and means for supporting said basket at its lower end in the direction of its rotation axis.

2,163,277
GEAR CONSTRUCTION
Julius Hartmann, Irvington, N. J.
Application April 5, 1938, Serial No. 200,118
6 Claims. (Cl. 74—435)



1. In a gear drive for intermittent transmission of power, a shaft, a gear wheel having a central opening for receiving said shaft and comprising a plurality of toothed and radially reciprocable sectors, a radial extension projecting from each of said sectors toward said central opening, and means on said shaft for selectively engaging said radial extension and projecting said toothed sectors to individually engage another gear.

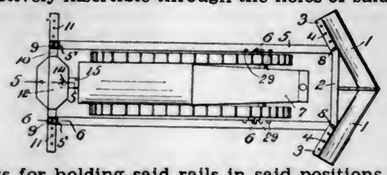
2,163,278
BAG SEALING MACHINE
Charles T. Hayes, Richmond, Va., assignor to James River Paper Products, Inc., Richmond, Va., a corporation of Virginia
Application July 31, 1937, Serial No. 156,799
18 Claims. (Cl. 93—27)



1. In a bag sealing machine, an endless conveyor, a series of clamps on said conveyor, each comprising a pair of parallel jaws arranged transversely on said conveyor and having a limited relative movement to open and close the clamp, springs normally holding said jaws apart, means for closing said jaws and holding the same closed during a portion of the travel of said conveyor, and means for feeding a bag between each pair of jaws just prior to its closure.

2,163,279
SNOW PLOW
Albert R. Henry, Salina, and Marion C. Wills, Topeka, Kans.
Application January 26, 1938, Serial No. 187,012
3 Claims. (Cl. 37—44)

1. In a tractor propelled snow plow of a type having a moldboard forward of and draft means at the rear of the tractor, the combination with a mold board having two rearwardly and outwardly diverging rows of holes, of draft means, two longitudinal side rails adjustable toward and from each other to positions in which they will be adapted for stabilizing engagement with opposite sides respectively of the tractor, two bolts respectively extended through said rails and respectively insertible through the holes of said two



rows for holding said rails in said positions, and means for attaching said rails to said draft means when said rails are in said positions, whereby said plow is adapted for use with tractors of different lengths and widths.

2,163,280
MERCHANDISE DISPENSING DEVICE
Benjamin T. Hibshman, North Bergen, N. J.
Application August 16, 1938, Serial No. 225,148
6 Claims. (Cl. 312—42)

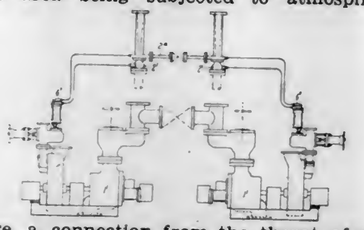


2. A dispensing device of the nature described comprising a vertically disposed casing for the reception of a stack of articles of merchandise to be dispensed, a mouth opening at the bottom of the casing through which the lowermost article in the stack is adapted to be withdrawn, the remaining articles in the stack adapted to drop by gravity when the said lowermost article is withdrawn, a signalling device at the bottom of the casing normally in contact with the said lowermost article in the stack, the said signalling device being operated by the next higher article when it drops upon the withdrawal of the said lowermost article, and a shelf secured to and extending horizontally from the casing at the top of the mouth opening to prevent the tilting of the article being removed until it is fully withdrawn from the casing.

2,163,281
MEANS FOR CONTROLLING FEED WATER PUMPS
Harold Hillier, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Cathcart, Glasgow, Scotland, a corporation of Great Britain and Northern Ireland
Original application December 10, 1936, Serial No. 115,213. Divided and this application February 18, 1938, Serial No. 191,138. In Great Britain January 27, 1936
2 Claims. (Cl. 103—19)

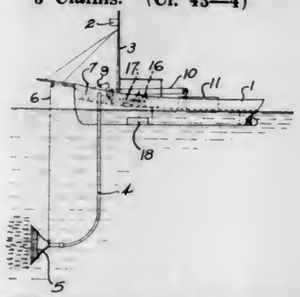
1. In a boiler feed system, the combination with a centrifugal feed pump having a discharge

branch and a turbine for driving said pump, of a convergent-divergent tube directly connected to said discharge branch, a valve controlling the supply of motive fluid to said turbine, a valve-governing device including a cylinder and a piston having differential surface areas movable in said cylinder, whereby an annular space is formed in said cylinder behind the portion of the piston having the smaller surface area, the end of the piston remote from the portion having the larger surface area being subjected to atmospheric



pressure, a connection from the throat of said tube to that part of the cylinder adjacent the surface of the piston having the larger surface area, whereby the piston surface of larger area is subjected to the pressure at said throat, a connection between the inlet end of said tube and said annular space, a spring acting on said piston in supplement to the opposition presented by atmospheric pressure to movement of said piston, and an operative connection between said piston and said valve effective to control said valve in dependence on the position of said piston.

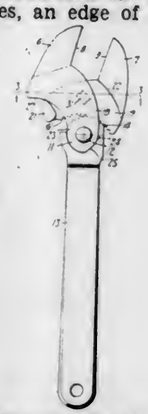
2,163,282
MEANS FOR CATCHING FISH
Knut Hovden, Monterey, Calif.
Application March 10, 1937, Serial No. 130,061
3 Claims. (Cl. 43—4)



1. In combination, a vessel, a conduit extending from said vessel and terminating in the water and discharging on said vessel, means for creating a water flow in said conduit toward said vessel, said conduit terminating in an enlarged portion, conductive rods extending from said enlarged portion and surrounding the conduit entrance, moving said collector through a school of fish, and means for electrically charging said rods.

2,163,283
WRENCH
Stanley Kupis, Oakland, Calif.
Application January 8, 1936, Serial No. 58,058
3 Claims. (Cl. 81—127)

1. A wrench comprising, a jaw member having a jaw face and spaced body sides, a second jaw member slidably carried between said sides and having a jaw face opposed to said first jaw face and enlargements adjacent its ends to prevent withdrawal from said first member, said second member being provided with a curved rack, a handle pivoted to said first member and provided with a gear curved eccentrically to and engageable with said rack for varying the spacing of said faces, an edge of one of said first

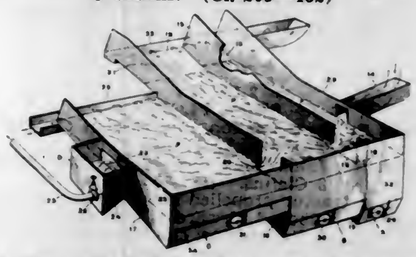


member sides being curved and cooperating with one of said enlargements and the curvatures of said rack and gear to maintain said jaw faces in substantially parallel relation and to prevent fulcruming of said rack on said gear in a direction increasing the spacing of said faces, and spring means engaging said jaw members for holding the latter in operative position.

2,163,284
ALKYL CYCLOHEXANONES AND PROCESS FOR PRODUCING SAME
Wilbur A. Lazier, Wyckwood, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 22, 1937, Serial No. 181,203
13 Claims. (Cl. 260—586)

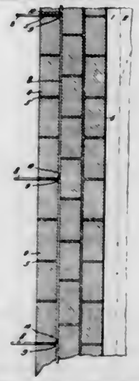
1. The process for catalytically dehydrogenating hydrogenated alkyl side chain phenols, wherein the said alkyl side chain contains at least four carbon atoms, which comprises bringing into contact in the liquid phase a hydrogenated alkyl side chain phenol and a dehydrogenating catalyst at a temperature within the range of 50° C. to 400° C.

2,163,285
CLASSIFICATION
Harry L. McNeill, Denver, Colo.
Application July 9, 1937, Serial No. 152,737
8 Claims. (Cl. 209—462)



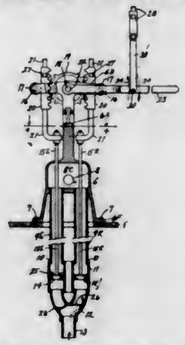
1. The method of classification which comprises maintaining liquid having therein in suspension solids being classified in a common pool subdivided into a plurality of zones of step-wise treatment with the adjacent zones separated by a partial partition, continually supplying to the zone of primary treatment new material in suspension to be classified, separately removing from the pool solids settling in each zone, continually withdrawing over a submerged weir in the zone of final treatment liquid having a final fraction of fine solids in suspension therein while causing in said last zone at a point spaced from said weir a local superelevation or surfe effective to float from said zone an intermediate fraction of said fines, and agitating the liquid in a quantity of the zones at a slower rate than that in the next preceding zone whereby solids removed from each zone are less coarse than those removed from the next preceding zone.

2,163,286
BRICK WALL CONSTRUCTION
Allison G. Munro, New York, N. Y.
Application March 18, 1938, Serial No. 196,600
7 Claims. (Cl. 72—127)



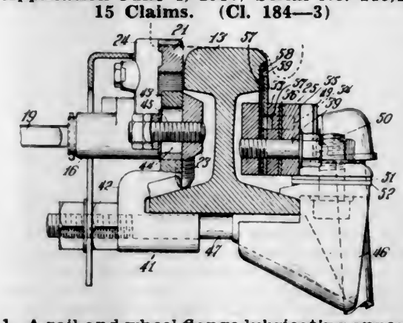
1. Method of forming drainage channels in masonry, which comprises embedding a strip of flexible material therein while the masonry is in a plastic state, and withdrawing said strip when the masonry has become at least partly set so as to leave an unobstructed channel in the place originally occupied by said strip.

2,163,287
PUMP
George Nisula, Edgewater, Wis.
Application January 13, 1938, Serial No. 184,829
2 Claims. (Cl. 103—183)



1. A pump of the class described comprising an upright frame with a hollow base adapted to be secured to a platform, an integral upwardly directed arm from the top of said base portion and bifurcated upwardly the upper termini of said bifurcated arm comprising a pair of horizontally registering arms forming a T-shape with said bifurcated part, a water chamber in the upper part of the hollow base and an outlet spout directed outwardly therefrom, dual pipe conductors extending downwardly from said water chamber and parallel to each other, the lower extremities of said conductors comprising a pair of cylinders, a piston in each cylinder and a piston rod extending upwardly within each conductor and over the hollow housing, means mounted over said housing in said bifurcated part for simultaneously reciprocating the pistons one up and one down, alternately, a Y-pipe connected to the lower ends of the cylinders and valve means in said Y-pipe to permit upward passage of water to the cylinders alternately and to shut off downward passage of water.

2,163,288
RAIL AND WHEEL FLANGE LUBRICATOR
Emmons Overmier, La Grange, and Thomas E. Rodman, Glencoe, Ill., assignors, by mesne assignments, to Poor & Company, Chicago, Ill., a corporation of Delaware
Application June 4, 1937, Serial No. 146,422
15 Claims. (Cl. 184—3)

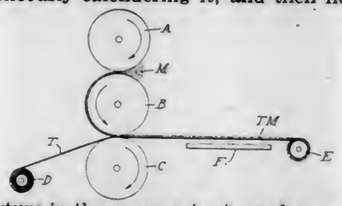


1. A rail and wheel flange lubricating apparatus comprising a railroad rail, the head portion of which is recessed at locations spaced longitudinally of the rail, which recesses open through the gauge side face and the under surface of the rail head adjacent said face and terminated at locations below the top surface of the head, and a lubricant distributing member extending lengthwise of the rail and provided with lubricant delivery members having lubricant ducts therein leading to the upper ends thereof and the said members extending upwardly into said recesses to points adjacent the upper ends thereof, whereby lubricant discharged from said delivery members is directed laterally and upwardly to the side face of the rail head.

2,163,289
SPONGE RUBBER COATED FABRIC AND METHOD OF MANUFACTURING THE SAME
Jean Pennel, Roubaix, and Joseph Flipo, Croix, France
Application December 1, 1936, Serial No. 113,570
In France June 4, 1932
5 Claims. (Cl. 91—70)

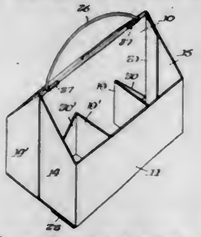
1. The method of manufacturing a sponge rubber coated fabric and the like, which comprises adding a swelling agent to a rubber mixture, said swelling agent developing a gas within a predetermined range of temperatures adding to the

mixture at least one accelerator the critical temperature of which is situated within said range of temperatures, applying the mixture in the form of at least one layer upon a pliable sheet and simultaneously calendering it, and then heating



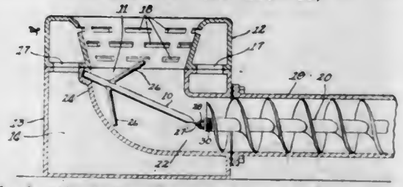
the mixture in three separate stages from a temperature which is lower than 70° C. to a temperature of about 135° C. to cause a swelling and a vulcanization thereof, whereby said swelling and said vulcanization take place substantially simultaneously.

2,163,290
BOTTLE HOLDER
Henry K. Powell, Chicago, Ill.
Application June 8, 1938, Serial No. 212,413
9 Claims. (Cl. 229—27)



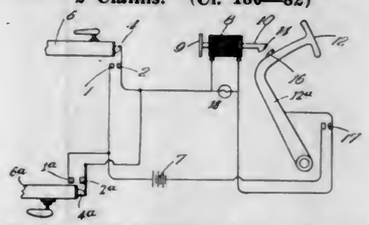
1. A container for packaging a plurality of bottles or the like, comprising a sheet slotted and creased to form a pair of inner side panels which are connected to each other at their upper ends, a pair of outer side panels of less height than said inner side panels and respectively connected to them by end panels disposed at the lateral ends of said side panels, thereby affording walls for two collaterally disposed compartments separated by the inner side panels, and a bottom for connecting the lower ends of the outer side panels and holding the inner side panels in collateral relationship and forming a bottom for said compartments, a handle being provided at the upper ends of the inner side panels whereby the container may be carried.

2,163,291
AGITATOR INSERT FOR STOKER RETORTS
August J. Raddatz, Milwaukee, Wis.
Application April 17, 1937, Serial No. 137,454
2 Claims. (Cl. 110—45)



1. A retort for the reception and combustion of fuel, a tube and a rotary fuel feeding device therein for passage of fuel to the retort, said rotary device having a terminal portion adjacent the connection of the tube with the retort, an agitator device extending substantially across retort and angularly disposed with reference to the axis of rotation of the fuel feeding device and a power connection between the fuel feeding device and the agitator.

2,163,292
SAFETY DEVICE FOR MOTOR VEHICLES
Michael Thornycroft Sassoon and Ernest Thomas Worsell, Kent, England
Application August 27, 1937, Serial No. 161,292
In Great Britain February 10, 1937
2 Claims. (Cl. 180—82)

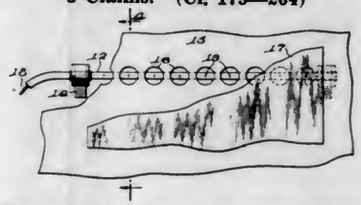


1. In a vehicle having a door, and a pedal to be first depressed and then released for starting the vehicle, a movable abutment, electromagnetic means for bringing said abutment into an operative position stopping return of the depressed pedal to its released position, an energizing circuit for said electromagnetic means including a switch controlled by said door, and means to retain said pedal in said stopped position after deenergization of said electromagnetic means until the pedal is subsequently depressed.

2,163,293
ELECTROTHERMIC PRODUCTION OF BORON CARBIDE
Franz Schroll, Mueckenberg, and Adolf Vogt, Kraftborn, Germany, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, a corporation of Germany
No Drawing. Application September 4, 1936, Serial No. 99,496. In Germany September 17, 1935
7 Claims. (Cl. 23—208)

2. Process for the electrothermic production of boron carbide, which comprises melting a mixture of carbon and boric acid in an electric furnace, cooling and comminuting the resulting product and mixing it with substantially the same quantity of boric acid, and melting the mixture in an electric furnace a second time.

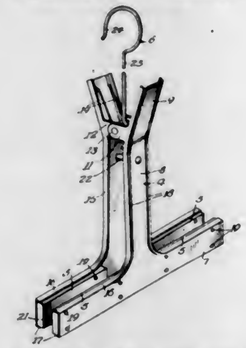
2,163,294
STATIC ELIMINATOR
Julius Simons, Philadelphia, Pa.
Application November 21, 1936, Serial No. 112,110
3 Claims. (Cl. 175—264)



1. The combination of a static eliminator,

comprising a metallic bar and a series of discharge elements extending radially therefrom, with spaced supporting discs through which said bar extends, a guard-guide having spaced apertures, centrally disposed with respect to each of which is one of said elements, said guard-guide extending in a plane substantially parallel with said bar, and arcuate brackets carried by said guard-guide and in which said supporting discs are rotatably mounted.

2,163,295
HANGER FOR TROUSERS
George Subick, Chicago, Ill.
Application March 18, 1937, Serial No. 131,542
8 Claims. (Cl. 223—96)



1. As a new article of manufacture, a trousers hanger comprising a pair of complemental oppositely disposed clamping elements including opposed elongated members for clamping the cuffs of the trousers therebetween and pivotally connected together so that said members may swing to and from one another into and out of clamped relation with said cuffs, spring means applied to said clamping elements for yieldingly holding the members in said clamped relation with the cuffs, sharp-pointed pins carried by and extending inwardly from one of the members and adapted when the cuffs of the trousers are clamped between the members to embed themselves into one of the cuffs and prevent slipping of the trousers from the hanger, and stop means for preventing the members from swinging inwards to the point where said pins engage the other elongated member.

2,163,296
ALIPHATIC MERCURATED ALKYL AMIDE
Donalee L. Tabern, Lake Bluff, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
No Drawing. Application February 8, 1935, Serial No. 5,618
8 Claims. (Cl. 260—431)

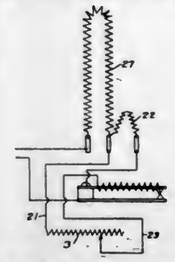
1. A compound having the following formula:

$$R'—NHCH_2CHCH_2$$
$$\qquad\qquad |\quad\ |$$
$$\qquad\qquad R\quad R$$

in which R′ represents the acyl group of an aliphatic acid and in which one of the R's is selected from the group consisting of HgOH and $HgOCOCH_3$ and the other R is selected from the group consisting of OH and $OCOCH_3$.

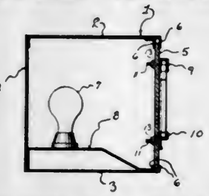
2,163,297
THERMOSTAT REMOTE CONTROL
Alvin H. Waage, Westfield, N. J.
Application August 10, 1937, Serial No. 158,291
4 Claims. (Cl. 219—20)

3. A control unit for devices electrically heated, comprising a thermostat in the circuit of the said device, and a unit of material having a high temperature coefficient of resistance connected in series with the heating element of the said device and positioned to be influenced thereby, and also



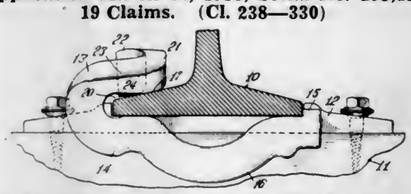
connected in parallel with the operating circuit of the said control unit, and adapted to intermittently operate said unit to make and break the circuit with a pulsating-action dependent upon the temperature of the said device.

2,163,298
INTERCHANGEABLE ILLUMINATED SIGN
Charles J. Wamser, Milwaukee, Wis.
Application May 16, 1938, Serial No. 208,193
3 Claims. (Cl. 40—140)



1. An illuminated sign comprising a housing having an open side, electric illuminating means contained within said housing, a translucent panel detachably carried by said housing, a pair of spaced parallel horizontal channels, means carried by the channels and projecting through said panel for detachably securing the channels thereto, and silhouette letters having upper and lower projections detachably mounted in said channels.

2,163,299
FLANGE PROTECTING RAIL ANCHOR
Harold G. Warr, Park Ridge, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware
Application March 12, 1938, Serial No. 195,430
19 Claims. (Cl. 238—330)



1. A rail anchor for gripping the base flange of the rail at one side of the rail supporting structure and comprising a portion for abutting against the adjacent side face of said structure and a jaw for engaging the top surface of said base flange, the said jaw being provided with a portion for receiving the impact of a derailed wheel and adapted to engage the rail flange at a

location overlying the rail supporting seat of the said structure, whereby the force of such impact is transmitted to the rail flange only at a location overlying the said rail seat.

2,163,300

STABILIZER FOR LUBRICATING OIL DYE

Jones I. Wasson and Garland H. B. Davis, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 19, 1935, Serial No. 11,812

6 Claims. (Cl. 87—9)

1. A lubricating oil containing from 0.01 to 5% of a soluble dye prepared by treating cyclic compounds with a condensation agent, and a dye stabilizer consisting of polyhydroxy stearic acid ester having a molecular weight above about 10,000, and present in sufficient concentration to effect the stabilization of said dye.

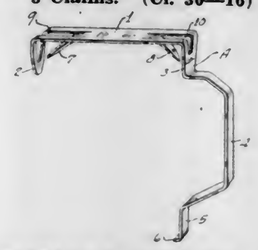
2,163,301

CAN OPENER AND HOLDER

Herbert C. Will, St. Louis, Mo.

Application May 26, 1937, Serial No. 144,822

3 Claims. (Cl. 30—16)



1. As an article of manufacture, a combined can holder-and-opener comprising a cross bar having can side-wall engaging arms formed integrally on and extending downwardly at right angles from the opposite ends thereof, said arms being shaped in cross-section to conform to the curvature of the can side wall, a pair of opposed downwardly presented cutter prongs formed on the cross-bar, and a handle member formed integrally on and extending downwardly from the lower extremity of one of said arms.

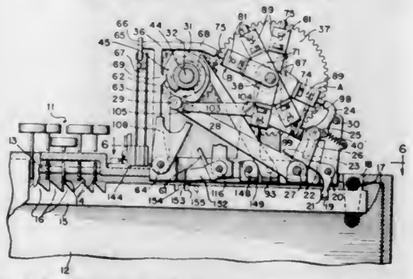
2,163,302

KEYBOARD TRANSMITTER

Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application April 18, 1936, Serial No. 75,051

33 Claims. (Cl. 178—17.5)



1. A keyboard mechanism comprising a set of key levers, a set of code bars permutably shiftable under the manipulation of said key levers, an apparatus comprising a plurality of signal storage members, each member having a number of settable storage pins, means under the control of said set of code bars for imparting a corresponding setting to said settable storage pins of each of said signal storage members progressively comprising a set of transfer elements each individual to one of said code bars and a set of transfer element latches conditionable by an associated code bar to control the operation of a related one of said set of transfer elements, driving means for advancing said storage units to a line transmitting position, and a set of signalling contacts controlled by each of said storage members successively for issuing telegraph signals corresponding to a setting.

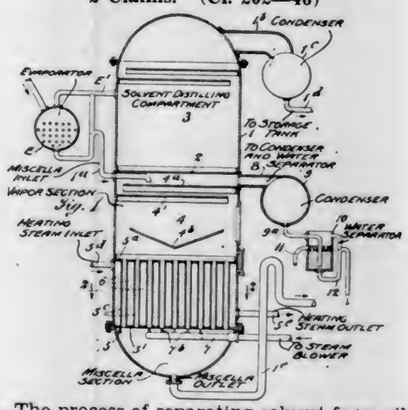
2,163,303

PROCESS FOR SEPARATING SOLVENT FROM OIL IN MISCELLA AND LIKE MIXTURES

Michele Bonotto, Evansville, Ind., assignor to Extractol Process, Ltd., Wilmington, Del., a corporation of Delaware

Application August 9, 1935, Serial No. 35,443

2 Claims. (Cl. 202—46)



1. The process of separating solvent from oil in miscella consisting in providing within a treating tank a body of miscella, immersing within said miscella a bank of tubes surrounded by steam chambers to heat the same, blowing within the body of miscella jets of steam with entrained miscella through and into contact with said tubes to procure a rapid circulation of the miscella through such heating element and to avoid condensation of the blown steam within the mass of miscella, and also simultaneously and in the same operation utilizing said jets of steam to pulverize the miscella and entrain and drive off the last traces of solvent from the miscella, treating said pulverized miscella and steam to condense the same and separating the water and solvent.

2,163,304

APPARATUS FOR TRIMMING AND JOINING THE ENDS OF FABRIC PIECES

Herbert Corrall, St. Alban, Helensburgh, and James Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

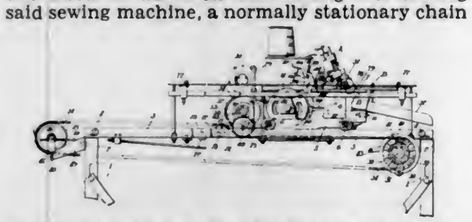
Application May 15, 1937, Serial No. 142,734

In Great Britain June 11, 1936

10 Claims. (Cl. 112—2)

1. In a machine of the class described, the

combination with a railway and a wheeled carriage mounted thereon, of a sewing machine mounted on said carriage and including stitch-forming and work-feeding mechanisms, an electric motor mounted on said carriage for driving said sewing machine, a normally stationary chain



disposed lengthwise of said railway, a connection including a speed reducing gearing between said chain and said carriage for moving the latter with said sewing machine on said railway at stitching speed and means including said chain for returning said carriage with said sewing machine to starting position on said railway.

2,163,305

PROCESS OF POLYMERIZING ACRYLIC AND ALKACRYLIC COMPOUNDS

Harry R. Dittmar, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 21, 1935, Serial No. 22,573

17 Claims. (Cl. 260—83)

15. Process which comprises subjecting an alkyl methacrylate to polymerizing conditions while dispersed in water containing a dispersing agent selected from the group consisting of starch and starch ethers to give a polymeric ester in granular form; on completion of the desired polymerization, adding a hydrolyzing agent to the polymer whereby the dispersing agent is rendered water soluble; and separating the thus hydrolyzed dispersing agent from the polymer as an aqueous solution.

16. In a process for the polymerization of an alkyl methacrylate in which the monomeric alkyl methacrylate is polymerized while dispersed in an aqueous polymerizing medium in the presence of methyl starch as the dispersing agent, the step which comprises removing methyl starch by treating the polymerized alkyl methacrylate with from 0.05 to 0.5% of an enzymatic hydrolyzing agent based on the weight of polymeric resin.

17. In a process of polymerizing, while dispersed in water, a monomeric organic acid compound selected from the group consisting of acrylic acid and its esters, nitriles and amides and alkacrylic acids and their esters, nitriles and amides, the step which comprises effecting the dispersion in the presence of a starch ether as the dispersing agent.

2,163,306

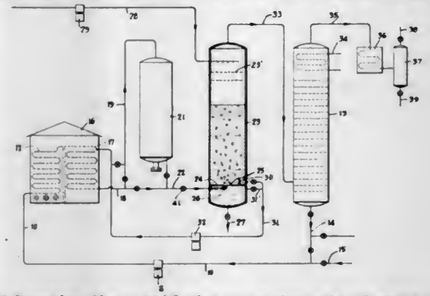
CONVERSION OF HYDROCARBON OIL

James W. Gray, Summit, N. J., assignor to Gasoline Products Company, Inc., Newark, N. J., a corporation of Delaware

Application July 23, 1936, Serial No. 92,067

2 Claims. (Cl. 196—58)

1. A method for processing hydrocarbon oil to produce lower-boiling hydrocarbons suitable for motor fuel which comprises subjecting a condensate oil to cracking conditions of temperature and pressure to effect extensive conversion into gasoline hydrocarbons, introducing the resultant cracked products, comprising vaporous and residual products of reaction, at cracking temperature into a confined zone below a baffle in the lower portion of a reaction chamber in a stream tangential of the chamber so as to thereby establish and maintain in said confined zone a whirling mass of products promoting a rapid separation of residual products from vapors and gases which collect about the axis of the whirling mass, withdrawing liquid residual products from the lower portion of said confined zone, withdrawing the vapors and gases so collecting from said confined zone by passing them through a central opening in said baffle and thence upwardly into a body of liquid oil maintained in the reaction chamber above said baffle while retaining the liquid whirling mass below said baffle, introducing into the upper portion of said reaction chamber and substantially above said baffle a hydrocarbon



oil heavier than said clean condensate oil whereby said heavier oil passes downwardly through said upper portion of said chamber in countercurrent contact to said ascending hot gases and vapors, regulating the ratio of said heavier oil to said hot gases and vapors and maintaining contact thereof for a time sufficient to effect cracking of said heavier oil in said upper portion of said chamber whereby vaporous and gaseous products of such cracking separate from unvaporized oil, and pass upwardly with said hot gases and vapors, permitting residual oil from said body of oil undergoing cracking to pass downwardly through said central opening in said baffle and into admixture with the whirling mass below the baffle whereby said residual oil is quickly raised to a higher temperature to effect further cracking and vaporization thereof, and fractionating vapors from said reaction chamber to separate a desired distillate product.

2,163,307

LATCH AND LOCK

Stanley Hart, Kensington, Conn., assignor to Tuttle & Bailey, Inc., New Britain, Conn., a corporation of Connecticut

Application February 12, 1937, Serial No. 125,372

8 Claims. (Cl. 70—81)

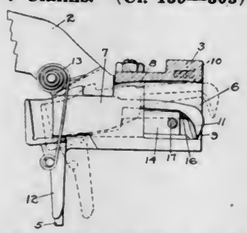
1. A latch and lock for a door comprising a keeper in the path of door movement, a vertically disposed channel secured to the door and adapted to receive a portion of the keeper when the door is closed, a reverse channel latch bar vertically slidable in said channel and into and out of latched engagement with the keeper, a handle slidably mounted on the door, a channel slide secured to the handle and movable in and operatively engageable with the latch bar to lift it out of latched position, a resilient member engageable with the latch bar and adapted to support it in a lifted re-latching position when the door is

open and to disengage from the latch bar and permit it to fall to a latched position when the



door is closed, and means to lock the handle against movement relative to the door.

2,163,308
THREAD-CUTTING TEMPLE
Frank D. Herring, Aragon, Ga., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application March 6, 1939, Serial No. 260,069
7 Claims. (Cl. 139—303)

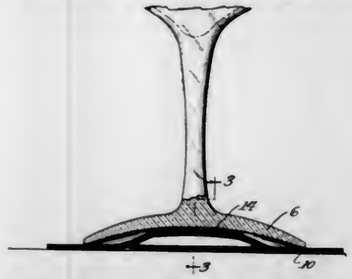


1. A temple thread cutting mechanism comprising a ledger blade, a movable blade having a depending cutting portion cooperating with said ledger blade, means mounting said movable blade for a rocking movement to engage said portion behind a filling thread and a forward sliding movement to cut the filling thread, and a fixed member having a cam surface for forcing said movable blade laterally against said ledger blade, said cam surface being positioned to be engaged by said movable blade upon rocking of the latter as aforesaid.

2,163,309
COASTER
Palmer B. McConnell, Appleton, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application November 26, 1937, Serial No. 176,591
2 Claims. (Cl. 65—53)

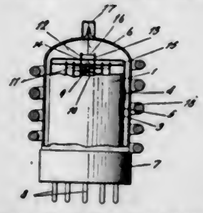
1. A removable and reusable coaster for drinking glasses and the like, comprising a base sheet of absorbent paper having an area thereof coated with a pressure sensitive normally tacky adhesive for removably affixing the coaster to a glass and the like and a peelable cover strip protecting said adhesive coating area.

2. A removable and reusable coaster for drinking glasses and the like, comprising a base sheet of absorbent paper, spaced slits in said base sheet forming a yieldable portion in said base sheet, a coating of pressure sensitive normally



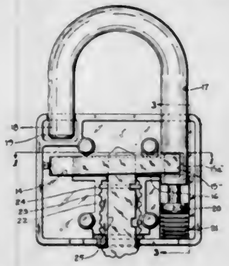
tacky adhesive provided in said yieldable portion for removably affixing the coaster to a glass and the like.

2,163,310
ELECTRON DISCHARGE TUBE AND THE LIKE
Carl F. Miller, Emporium, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application March 12, 1938, Serial No. 195,496
7 Claims. (Cl. 250—27.5)



7. An electrostatic shield arrangement for a tube mount comprising a tubular metal shield having a window in a wall thereof, a metal member mounted within said window in slightly spaced relation to the border thereof, said metal member carrying a quantity of getter material, and another member electrically connecting the first-mentioned member to said electrode, said other member having a relatively low heat conductivity.

2,163,311
PADLOCK
Frank E. Raymond, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application March 2, 1937, Serial No. 128,609
11 Claims. (Cl. 70—38)



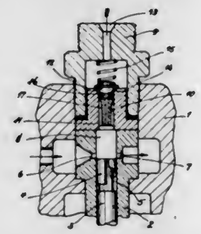
1. In a padlock of the class described, a padlock casing, a shackle, a spring for locking said

shackle having a pair of legs, a portion of said shackle cooperating with one of said legs when said shackle is in locked position in said casing whereby said leg retains said shackle in said locked position, said spring leg being movable by key operation out of cooperation with said shackle to permit movement of said shackle out of said padlock casing, and means on said shackle cooperable with the other leg of said spring as said shackle moves outwardly of said casing whereby to limit the movement of the shackle out of said padlock casing.

2,163,312
PROCESS FOR TREATING HYDROCARBON OIL
Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application May 11, 1937, Serial No. 142,018
6 Claims. (Cl. 196—30)

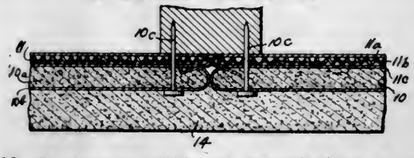
1. In the process of sweetening oils with solutions of copper salts in which the copper salt solution is intimately admixed with the oil, the step of removing copper mercaptides from the sweetened oil by contacting said oil in the absence of air with a solid adsorbent material impregnated with a solution of cupric and chloride ions.

2,163,313
FUEL INJECTION PUMP
Willy Voit, Stuttgart-Bad Cannstatt, Germany, assignor to Robert Bosch Geselischaft mit beschränkter Haftung
Application October 9, 1936, Serial No. 104,874
In Germany October 17, 1935
6 Claims. (Cl. 103—41)



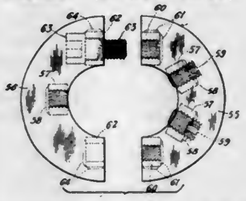
1. A fuel injection pump for supplying fuel to engines, comprising a cylinder, a reciprocable piston mounted therein, a discharge valve, a pressure conduit behind said valve, means for releasing an adjustable amount of the fuel displaced by said piston at its pressure stroke, and a guide seating for said discharge valve, said valve and guide seating having cooperating controlling surfaces to provide a passage in said guide seating for flow of fuel from said cylinder to said pressure conduit and a closure for said passage, a portion of said passage being of unchanging cross-sectional area and a portion being of gradually increasing cross-sectional area whereby, on the opening stroke of said valve, for a considerable initial part of the total opening stroke said valve opens a throttling passage of very small but unchanging cross-sectional area for flow of fuel and then for a further and also large part of its opening stroke said valve opens a passage for flow of fuel which gradually increases in cross-sectional area until the maximum cross-sectional area is reached.

2,163,314
INTERIOR WALL CONSTRUCTION OF BUILDINGS
Francis J. Ball, Jr., and Vincent J. Ball, Willow Grove, Pa.
Application February 24, 1939, Serial No. 258,272
14 Claims. (Cl. 72—16)



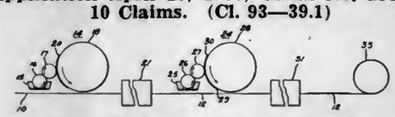
10. As a new article of manufacture, a unit adapted to form a portion of the support for a plaster coating, said unit comprising an imperforate slab of the plaster-board type, said slab having one of its faces and its edges covered by a thin layer of fibrous material adherently secured to the slab and to which the plaster coating is adherently secured, and a layer of multi-ply form of approximately similar facial area dimensions adherently secured to the opposite face of the slab, said layer having its outer plies imperforate and having an intermediate ply formation of corrugated type to thereby provide a yieldable cellular support for the slab in service and produce insulating characteristics in the immediate vicinity of the slab in service.

2,163,315
SHAFT COLLAR
Ferdinand H. Dalrymple, Bedford, Ohio
Application November 2, 1937, Serial No. 172,356
8 Claims. (Cl. 287—52.03)



1. A shaft collar comprising opposed spaced plane plates formed with coaxial bores for the reception of a shaft, transversely spaced internally-threaded blocks welded to the opposed faces of the plates and serving as the sole means for holding the plates in relatively fixed positions, and set screws engaging the blocks.

2,163,316
METHOD AND APPARATUS FOR MAKING CONTAINERS
Harry C. Fisher and James F. Thompson, Cincinnati, Ohio, assignors to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio
Application April 10, 1937, Serial No. 136,142
10 Claims. (Cl. 93—39.1)



1. The method of forming a container of the character described from a blank of paper material which includes the steps of applying in fluid condition to the blank a discontinuous coating upon a predetermined selected area of the blank,

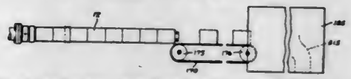
and thereafter winding said coated blank into container form with the coated portion thereof exposed upon the interior of the formed container and extending a predetermined limited distance under the lapped portion of the body wall, the coated underlapped portion providing protection and security against failure of the container, the remainder of the overlapped body walls being substantially free of coating.

2,163,317

PRODUCTION OF SEALED CONTAINERS

Rudolf William von Sydow and Walter E. Sooy, Middletown, Ohio, assignors to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio

Application September 21, 1937, Serial No. 164,914
24 Claims. (Cl. 93—39.1)



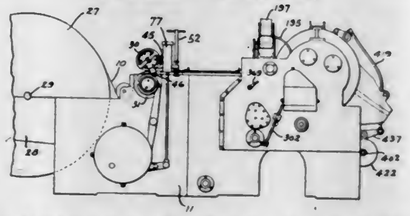
1. In a process for forming containers of the character described in which a sheet of paper material is wound in convolute tubular form on a mandrel leaving a longitudinal inner seam, the step which comprises stripping said tube from said mandrel while maintaining the seam in a predetermined position relative to the mandrel and applying a narrow band of surfacing material to the inner seam of said tube while said tube is maintained in said predetermined positioning.

2,163,318

MANUFACTURE OF CONTAINERS AND THE LIKE

Lino Scusa, West Phoenix, and Rudolph Kilian, Baldwinsville, N. Y., assignors to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio

Application September 23, 1937, Serial No. 165,352
45 Claims. (Cl. 93—81)



1. A machine of the character described adapted to form container bodies and the like from a web of paper material which comprises means for intermittently feeding said web, means for shearing said paper into lengths during periods of stoppage of said feed means, and means cooperating with said shearing means and operative while said paper is maintained stationary for bending the trailing edge of the severed length in such manner as to facilitate its close application to the body of the formed container.

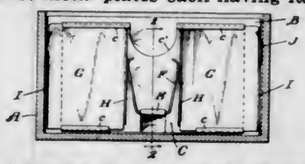
2,163,319

FOLLOWER FOR CARD FILES

William M. Gerkey, Joplin, Mo.

Application September 27, 1937, Serial No. 165,957
2 Claims. (Cl. 129—30)

1. A follower for a card file box comprising a rectangular sheet metal plate, the upper and lower edges of which are reversely bent to provide parallel guideways, said lower edge being also provided with an integral angularly extending supporting foot, and a portion of said plate above said foot being struck out and rolled to constitute a spring supporting member; a pair of reversible friction members slidably mounted in said guideways, one to either side of said spring supporting member, said friction members comprising sheet metal plates each having its lateral



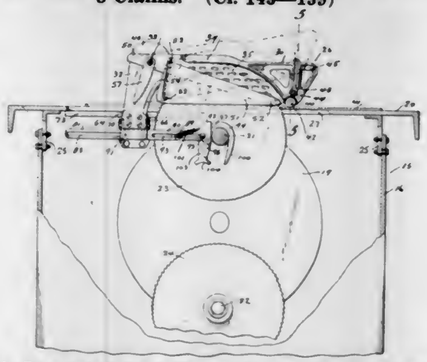
edges bent rearwardly to provide respectively a finger piece and a flange adapted to frictionally engage with a wall of the card file box; and a spring embraced and securely held by said spring supporting member with its opposite end portions engaging said finger pieces, said spring normally urging said slidable friction members in opposite outward directions to maintain their wall engaging flanges in engagement with the file box walls.

2,163,320

SAWING APPLIANCE

Michael F. Hammond, Buffalo, N. Y., assignor of one-half to William P. Morgan, Buffalo, N. Y.

Application May 1, 1937, Serial No. 140,242
8 Claims. (Cl. 143—159)



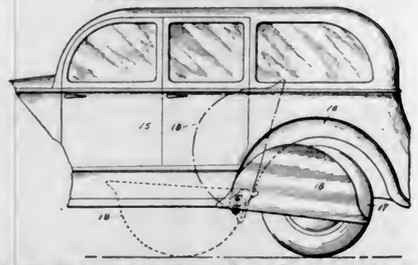
1. In a sawing appliance, the combination with a saw table having a slot formed therein, two saw arbors, and means for bringing the saw carried by either arbor into operative relation with the slot of the table, of a guard support, a guard pivotally mounted upon the support, quadrant means for maintaining the support in alignment with the saw being used irrespective of the angular arrangement of the saw and table, said quadrant means comprising a quadrant hinge, guideways for slidably attaching the quadrant hinge to the table for movement in a direction parallel with the slot thereof, a bearing bracket carried by the quadrant hinge, means connecting the bracket with the hinge for permitting relative arcuate movement therebetween, means for attaching the support to the bearing bracket, means connecting the bracket to the sawing appliance, and operating means carried by the hinge means and connected with either of the saw arbors, whereby the guard will be moved back and forth as the saw is being moved in an arcuate path while being adjusted vertically with respect to the table top.

2,163,321

WHEEL GUARD

Ray W. Harroun, Saginaw, and Emery K. Zimmerman, Detroit, Mich., assignors to Aero-Style Corporation, Indianapolis, Ind., a corporation of Indiana

Application February 6, 1935, Serial No. 5,315
Renewed May 9, 1939
4 Claims. (Cl. 280—153)



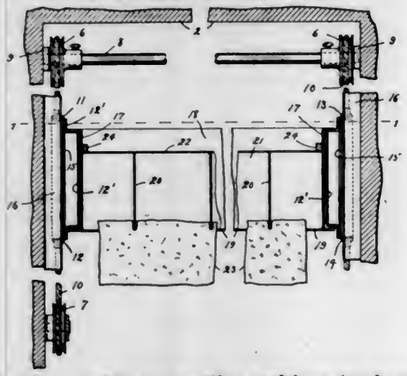
1. In the combination of a wheel guard and a vehicle fender of the type whereby the guard is movably fastened to the fender, means for movably fastening the wheel guard to the fender comprising a slotted fender bracket, an angle plate slidably mounted in the slot of said bracket and an L-rod pivotally mounted at one end to said angle plate and at the other end to a wheel guard.

2,163,322

REFRIGERATOR

Martin Hokanson, Duluth, Minn., assignor to Eidco, Inc., Duluth, Minn., a corporation of Minnesota

Application August 4, 1937, Serial No. 157,325
10 Claims. (Cl. 62—46)



1. The combination with a refrigerator having a refrigerant compartment therein, of a vertically and horizontally adjustable combined shelf and ice cube forming grid within said compartment.

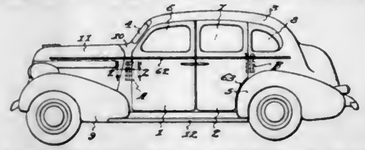
2,163,323

HINGE MECHANISM

Earl E. Howe, Royal Oak, Mich.

Refiled for abandoned application Serial No. 130,977, March 15, 1937. This application January 14, 1938, Serial No. 185,035
3 Claims. (Cl. 296—44)

2. The combination of a vehicle body having outwardly curved side walls with the widest portion thereof being restricted to a narrow zone substantially midway of the height thereof, a door for said body having a window opening therein, and a unitary concealed hinge assembly of limited length and having a fixed axis of swing for swinging said door from said body located at the region of greatest curvature of said body and intersected



by a horizontal line extending through the center of gravity of said door, said hinge assembly being limited in vertical height to a length such that it extends slightly below said horizontal line and such that the top thereof resides below said window opening.

2,163,324

VEGETABLE BAG

Arno Reinhold, Chagrin Falls, Ohio

Application February 23, 1938, Serial No. 192,026
2 Claims. (Cl. 150—1)



2. A vegetable bag comprising a body member of flexible air-proof and moisture-proof material having elongated overlapping closely adjacent side edge portions forming an opening through which the bag contents may be inserted and removed, means for retaining said side edge portions in substantial overlapping position by securing said edge portions together at their ends across substantially the full width thereof, and means secured to one bag end adjacent one side thereof for supporting the bag, the opposite bag end being formed with drainage vents adjacent the opposite side thereof.

2,163,325

COLOR PHOTOGRAPHY OR CINEMATOGRAPHY

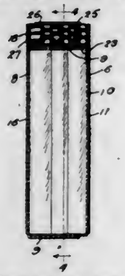
Edgar Sanders-Dolgoruki, London, England, assignor to Truecolour Film Limited, London, England, a British company

No Drawing. Application October 28, 1937, Serial No. 171,593. In Great Britain October 29, 1936
5 Claims. (Cl. 95—2)

1. A method of processing a photographic material comprising a plurality of superposed silver halide emulsion layers containing color-forming components to produce differently colored images in the different layers comprising developing the latent image in all of said layers with a developer incapable of affecting the said color-formers, removing the unaffected silver halide

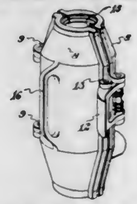
from said layers, converting the developed silver images into silver salt images which are capable of redevelopment and developing said silver salt images with a developer, the oxidation products of which are capable of reacting with the said color-formers to produce differently colored images in the layers.

2,163,326
CIGARETTE PACKAGE
Leo A. Schwartz, Oklahoma City, Okla.
Application September 7, 1938, Serial No. 228,829
8 Claims. (Cl. 206—48)



1. A wrapper for a cigarette package and the like comprising a main body adapted to enclose the front, sides and back of such a package, and having a downturned edge with a bottom closure extending from front to back adjacent the downturned edge and below the level thereof, a match package secured to said bottom closure to reinforce the same, a cover closure forming a part of said bottom closure extending up the sides and over the top, striking material on the cover closure, the downturned edges, bottom and cover closure forming a reinforced compartment of greater thickness than the rest of the wrap.

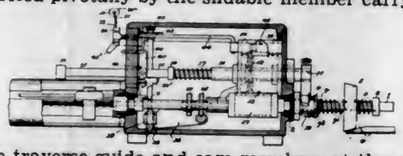
2,163,327
TUBING OIL SAVER
John E. Shaffer, Tulsa, Okla., assignor of one-half to Jesse L. Smith, Tulsa, Okla.
Application May 20, 1937, Serial No. 143,789
2 Claims. (Cl. 166—16)



1. An oil saver comprising hinged sections enclosing and spaced from the adjoining collar-end and plug-end of a drill string to form an annular closed chamber, the lower end of said chamber having a discharge-port below the collar, the upper end of each section having an interior integral longitudinally extending rib terminating at its lower end in a shoulder, and said shoulders seated on the upper free end of the collar.

2,163,328
YARN WINDING MACHINE
Walter Shaw, Huddersfield, England
Application July 16, 1937, Serial No. 154,053
In Great Britain July 21, 1936
10 Claims. (Cl. 242—18)

1. In a winding machine a winding spindle and means for driving same, a traverse guide for guiding the material to be wound, a slidable member carrying said traverse guide, a reversing worm carried by the winding spindle, a nut block carried pivotally by the slidable member carrying



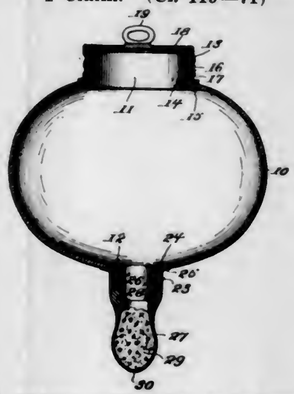
the traverse guide and cam members at the ends of the reversing worm arranged to rock the nut block at each end of each traverse and thus reverse the direction of movement imparted to the traverse guide.

2,163,329
DISPLAY DEVICE
Casimir J. Sipior, North Tonawanda, N. Y.
Application September 15, 1937, Serial No. 164,031
5 Claims. (Cl. 40—132)



1. The combination with the instrument panel of an automobile, of a display device, comprising a tubular body, an adaptor having a body for passage through an aperture in the instrument panel and for screwthreaded engagement with the tubular body, said adaptor having an outwardly extending flange for engagement with the outer surface of the panel and having an inwardly extending flange forming a recess, two window glasses mounted behind the inwardly extending flange and between the forward end of the tubular body for retaining the picture in place therebetween, and means for securing the device in place.

2,163,330
CALF WEANER
Martha A. Snapp, Fort Wayne, Ind., assignor of one-half to Rudisill E. Peppler, Fort Wayne, Ind.
Application May 10, 1937, Serial No. 141,857
1 Claim. (Cl. 119—71)



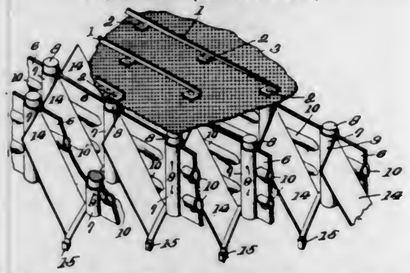
A calf weaner comprising a hollow resilient

body having opposed walled openings, a double flanged ring accommodating the wall of each of said openings, an out-turned portion formed with one of the flanges of each ring and overlapping the edge next thereto of the walled opening companion thereto, a nipple threaded with the ring fitting one walled opening, and a hanger cap fitting the ring companion to the other walled opening, one of the walled openings being of considerably greater size than the other walled opening.

2,163,331
METHOD OF DRYING MILK WHEY
John R. Spellacy, Burlingame, Calif., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 26, 1937, Serial No. 171,133
7 Claims. (Cl. 99—57)

1. The method of producing dried whey which includes mixing dried milk powder with liquid whey and drying the mixture in the form of a sheet of substantial thickness.

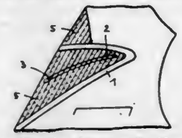
2,163,332
APPARATUS FOR ACCURATE PNEUMATIC SEPARATION OF PARTICLES OF A MASS
Henry M. Sutton and Edwin G. Steele, Dallas, Tex.
Application May 13, 1937, Serial No. 142,512
7 Claims. (Cl. 209—467)



3. A pneumatic dry separating apparatus, comprising a pervious deck, means for feeding a mass of material on the deck which is composed of particles having different specific gravities, a plurality of riffles above the deck consisting of narrow vertical portions with separated fastening tabs at their lower ends, supports for the pervious deck below it and consisting of very thin vertical members with enlarged portions arranged under the said tabs of the riffles and a plurality of air vanes located under the deck and between the said enlarged portions of the supporting members, said air vanes arranged to cause a backward feeding of air to the deck, for the purpose set forth.

2,163,333
LAPEL REINFORCEMENT
Karl von Däniken, Lucerne, Switzerland
Application June 11, 1938, Serial No. 213,271
In Switzerland May 23, 1938
1 Claim. (Cl. 2—255)

The combination with the lapel of a coat, of a reinforcement positioned in said lapel, said reinforcement being formed from relatively thin material having opposed flat surfaces and rounded end portions, said reinforcement being positioned with one of said rounded end portions adjacent the converging edges defining the peak of said lapel and the opposite end portion extending away from the peak of the lapel and into the body thereof, said last mentioned end por-

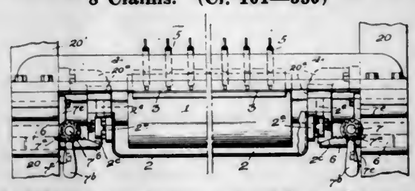


tion having a barb formed thereon, the point of which is directed toward the last mentioned end of the reinforcement and serving to anchor the device in the lapel.

2,163,334
OPACIFYING AGENTS FOR ENAMELS AND GLAZES
Ludwig Weiss, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold und Silber Scheide-Anstalt, vormals Roessler, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application January 5, 1938, Serial No. 183,517. In Germany December 9, 1936
9 Claims. (Cl. 106—36.2)

1. An enamel opacifying agent comprising a basic sulfate of cerium having a formula ranging from $4CeO_2 \cdot SO_3 \cdot H_2O$ to $4CeO_2 \cdot 3SO_3 \cdot H_2O$, together with one or more of the basic silicates, selected from the group consisting of the alkali metal silicates, the alkaline earth metal silicates and the aluminum silicates.

2,163,335
INK FOUNTAIN
James L. Blackley, Battle Creek, Mich., assignor to Duplex Printing Press Company, Battle Creek, Mich., a corporation of Michigan
Application March 21, 1936, Serial No. 70,133
8 Claims. (Cl. 101—350)

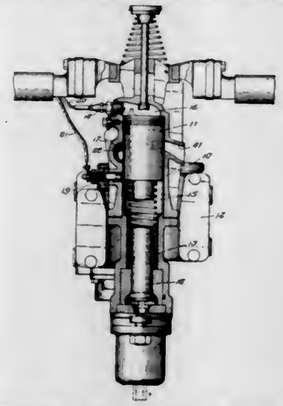


1. Inking apparatus comprising, frames, a fountain roll journaled in said frames, a removable pan adapted to be placed beneath the roll, brackets on the ends of said pan, interengaging devices on the frames and brackets for locating the pan beneath the roll, wedges mounted in the frames adjacent the ends of the pan adapted to engage the brackets and support the pan in operative location, and means for operating the wedges.

2,163,336
SPARK TIMER FOR HAMMERS
Carl L. Charles, Winnetka, Ill., assignor to Gas Tool Patents Corporation, a corporation of Delaware
Application April 5, 1937, Serial No. 135,185
14 Claims. (Cl. 123—146.5)

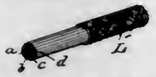
1. Ignition apparatus for an internal combustion percussive hammer having a cylinder, a piston freely reciprocable therein, said piston being adapted to impart impacts to a tool, and means for supplying said cylinder with a combustible charge, including: an ignition system for igniting said charge, said system including a pair

of cooperating ignition points for controlling said ignition; a longitudinally movable plunger actuated by reciprocation of said piston through contact with a cam surface thereon and effective to move one of said points toward the other; a coil



spring opposing said movement; a second longitudinally movable plunger so constructed and arranged as to permit further movement of said first plunger after said points have come into contact; and a second coil spring opposing the movement of said second plunger.

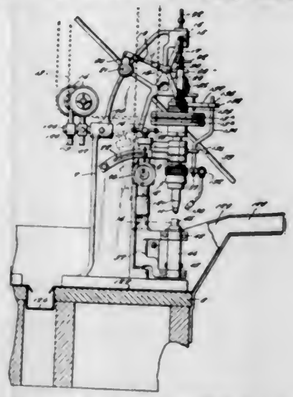
2,163,337
RUG AND FILLER THEREFOR AND METHOD OF PRODUCING THE SAME
Morris Goldstein, Pawtucket, R. I.
Original application August 4, 1937, Serial No. 157,413. Divided and this application September 30, 1938, Serial No. 232,674
9 Claims. (Cl. 28—1)



1. As a new article of manufacture, a piece of filling material consisting of a plurality of roving strands each of which is composed of a plurality of short length fibres, said roving strands lying in parallelism with one another and adhering to one another to constitute a single general strand, and a tubular covering for said filler.

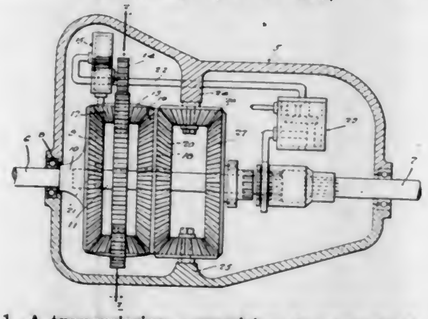
2,163,338
BUTTON-CUTTING MACHINE
Glenn W. Hopkins, Paducah, Ky., assignor to McKee Button Company, Muscatine, Iowa
Application September 25, 1936, Serial No. 102,594
2 Claims. (Cl. 79—16)

1. In a machine of the class described, a vertical support, button-blank cutting mechanism located vertically in front of the support, means for mounting said mechanism for up and down movement, said mechanism including a spindle having a blank cutting saw at its lower end, and means for rotating the spindle including a pulley fixed on the spindle, a second pulley loosely mounted on the spindle below the first pulley and rotatable relative to the spindle as an axis, a driving belt having a portion trained relative to the pulleys to engage the lower pulley when the blank-cutting mechanism is in an upward position and to engage the upper pulley when the blank mechanism is in a lower position for rotating the spindle in said lowered position, a supporting pin mounted on said support, oppositely extending blocks adjustably mounted on



the supporting pin, shank members connected with the blocks for vertical adjustment and provided at their upper ends with spindles and idler pulleys for the belt journaled on said spindle.

2,163,339
TRANSMISSION
Percy William Hotton, Salisbury, Md.
Application December 20, 1937, Serial No. 180,884
4 Claims. (Cl. 74—293)

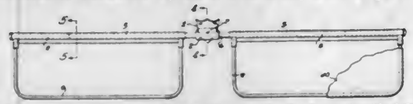


1. A transmission comprising a drive shaft, a driven shaft, an intermediate shaft, a planetary gear arrangement consisting of a bevel gear on the drive shaft, a bevel gear on the intermediate shaft, bevel pinions meshing with the bevel gears and interposed between the same, a ring gear carrying the said bevel pinions, a fluid pump having a drive gear meshing with the ring gear, said pump having an inlet and an outlet, a tube extending from the outlet, a distributing valve to which the tube communicates, and clutch means between the driven shaft and the intermediate shaft operative by fluid under pressure distributed by the said valve.

2,163,340
AUTOMOBILE GLARE SHIELD
Rex C. Jacobs, Detroit, Mich.
Application August 12, 1937, Serial No. 158,715
2 Claims. (Cl. 296—97)

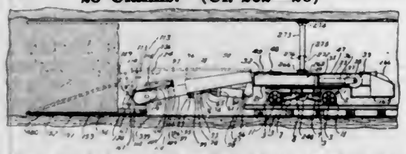
2. In a glare shield structure, a supporting bracket having an open ended bearing, a rod received and supported intermediate its ends in said bearing, means extending into said bearing

and engaging said rod to hold said rod against movement relative to said bracket, and a pair of



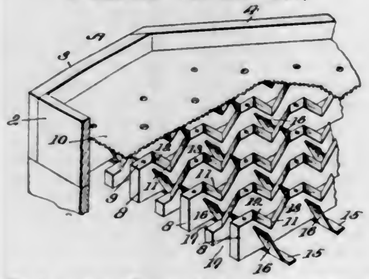
spaced shield members mounted for individual movement on said rod on opposite sides of said bracket.

2,163,341
COAL CUTTING MACHINE
Joseph F. Joy, Marion, Ohio, assignor to Sullivan Machinery Company, Chicago, Ill., a corporation of Massachusetts
Application December 2, 1933, Serial No. 700,681
28 Claims. (Cl. 262—28)



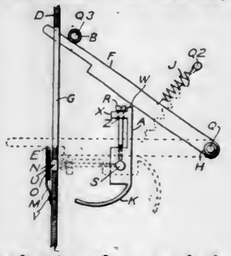
1. In a mining apparatus, a support, a boom pivotally attached to said support to swing relative thereto, means comprising hydraulic cylinders for swinging said boom relative to said support and for supporting the boom in its adjusted position, said cylinders containing reciprocable pistons having piston rods, the latter pivotally connected to said boom on axes parallel to the boom pivot axis, a cutter head mounted on one end of said boom for rotation about the longitudinal axis of the boom, means for rotating said cutter head relative to said boom comprising hydraulic cylinders mounted on said boom each containing a reciprocable piston, and connections between said pistons and said cutter head, a cutter support pivotally mounted on said cutter head, a kerf cutter carried by said cutter support, and means for tilting said cutter support relative to said cutter head and for holding the cutter support in its adjusted position comprising a hydraulic cylinder mounted on said cutter head and containing a reciprocable piston, and connection between said piston and said cutter support including a pivot whose axis is parallel with the cutter support axis.

2,163,342
PNEUMATIC SEPARATOR, CLEANER, CONCENTRATING TABLE, OR THE LIKE
Frank L. Knight, Twin Falls, Idaho, assignor to Sutton, Steele & Steele, Inc., Dallas, Tex., a corporation of Texas
Application July 28, 1937, Serial No. 156,222
In Canada January 7, 1937
9 Claims. (Cl. 209—467)



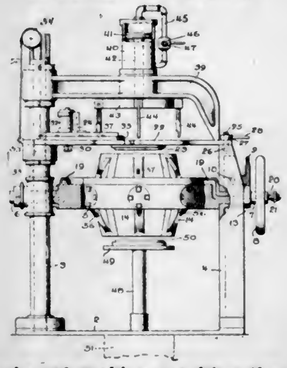
3. In a pneumatic separator or concentrating table for the dry separation of elements of a mass, an oscillating pervious deck to which air under pressure is delivered, a series of spaced ribs for supporting said deck, a series of air passageways in said ribs for permitting the passage of a plurality of air streams diagonally across the under side of said deck, and a plurality of vanes disposed in the spaces between said ribs to direct air upwardly therebetween and into the air passageways of the ribs.

2,163,343
MEANS FOR TURNING CONTROL SHAFTS TO PREDETERMINED ANGULAR POSITIONS
Le Roy J. Leishman, Los Angeles, Calif.
Application July 21, 1937, Serial No. 154,819
11 Claims. (Cl. 74—10)



1. In a mechanism for angularly positioning a control element of a radio device a combination including: a positionable member adjustably mounted upon a rotatable shaft, said member having a first arm extending on one side of said shaft and a second arm extending on the opposite side of said shaft, at least one of said arms having a curved portion extending a few degrees around said shaft; and a movable operating means adapted to engage one arm of said member and rotate it until the other arm engages said means.

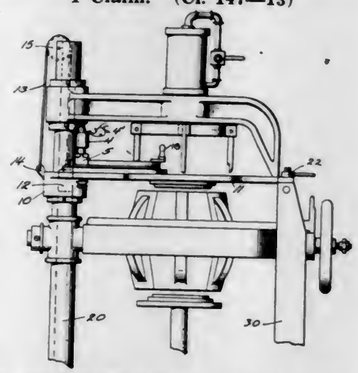
2,163,344
BARREL MAKING MACHINE
Teaphel A. McMahon, William Hierholzer, and William Glazat, Grand Haven, Mich.
Application August 15, 1936, Serial No. 96,296
2 Claims. (Cl. 147—4)



1. In a barrel making machine the combination of an upstanding pillar, an upstanding pedestal suitably spaced from the pillar, alined bearings in the pillar and the pedestal, an annular die carrier rotatably mounted in the bearings, radially located cylinders in the die carrier, pistons

in the cylinders, a piston rod fixed to each piston, a pivotally mounted die on the free end of each piston rod, conduits for carrying operating fluid to each cylinder, an elevatable platform intermediate the pillar and the pedestal, a carrying plate swingably mounted upon the pillar above the annular die carrier, a barrel head locating device on the carrying plate above and in alinement with the elevatable platform, means for locking the carrying plate to the pedestal and means for rotating the annular die carrier.

2,163,345
CROZING MACHINE
Teaphel A. McMahon, William Hierholzer, and William Glazat, Grand Haven, Mich.
Original application August 15, 1936, Serial No. 96,296. Divided and this application September 22, 1937, Serial No. 165,176
1 Claim. (Cl. 147—13)



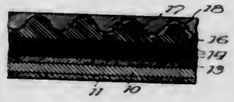
In a crozing machine the combination of an upstanding pillar, an upstanding pedestal, a carrying plate rotatably and slidably mounted upon the pillar, a bearing ring mounted upon the carrying plate, an annular member rotatably mounted in the bearing ring, a motor carrying bracket on the annular member, a motor having a projecting shaft mounted on the bracket, a croze cutting tool on the motor shaft, barrel clamping members on the carrying plate, means for clamping the free end of the carrying plate to the pedestal, means for revolving the rotating cutter about the inside of a barrel and means for conducting operating current to the motor.

2,163,346
ROAD MARKER
Okey J. Morrison, Charleston, W. Va.
Application September 7, 1937, Serial No. 162,747
1 Claim. (Cl. 94—1.5)



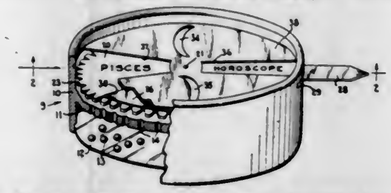
A traffic-directing marker for roadways, comprising an elongated, flat rectangular block adapted to be secured to the surface of a roadway, said block having a forward end, a pointed wing connected to one side of said block and diverging forwardly therefrom whereby to serve as a direction indicator, the upper face of the block being inclined downwardly from its pointed end to its rear end, and the upper face of the wing being inclined downwardly from its pointed end to its point of connection with the block, said wing being of less thickness than that of the block where connected therewith, whereby to provide a step.

2,163,347
ENDLESS FLEXIBLE BELT
Ernest Nassimbene, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application February 17, 1936, Serial No. 64,410
5 Claims. (Cl. 74—233)



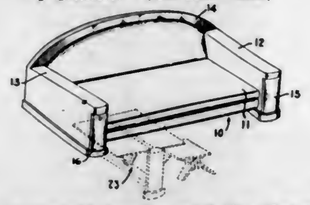
1. A longitudinally flexible belt having inner and outer surfaces, a substantially inextensible core disposed longitudinally of said belt, a series of transversely disposed elements of comparatively hard rubber between said core and outer surface, said elements being substantially rigid transversely of the belt whereby transverse flexing of the outer portion of the belt is prevented, said members being spaced from one another longitudinally of the belt and a filler of resilient flexible material between said members whereby longitudinal flexing of the belt is augmented, the belt body between said core and inner surface being formed of resilient material and the inner surface of the belt being substantially free of indentations whereby said inner portion will expand laterally when the belt is flexed longitudinally.

2,163,348
AMUSEMENT DEVICE
Albert Novak, New York, N. Y.
Application May 23, 1938, Serial No. 209,566
3 Claims. (Cl. 273—161)



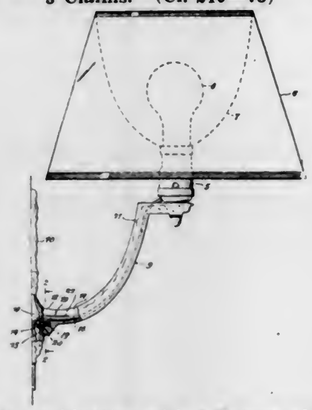
2. An amusement of the type described comprising a hollow, substantially cylindrical casing, open at the ends; a partition within said casing, extending transversely thereacross, dividing the interior of said casing into a first and a second portion, part of the surface of said partition adjoining said first portion being divided into a plurality of concentrically positioned annular shaped spaces, each of said spaces being radially sub-divided to present a plurality of segmental areas, each of said segmental areas being different in visual effect from adjoining segmental areas, a first group comprising numerically substantially half of said segmental areas having a common visual effect and a second group comprising the other of said areas having a common visual effect different from the visual effect of said first group; said partition having a plurality of openings formed therein extending therethrough, one of said openings being located in each of said segmental areas; a plurality of weighted, substantially spherical tokens, confined in said first portion of said casing; and a visually transparent window mounted in and closing the end of said casing comprising said first portion.

2,163,349
COMBINATION SOFA, TABLE, AND CHAIR
Axel Olsen, Brooklyn, N. Y.
Application November 29, 1937, Serial No. 177,121
6 Claims. (Cl. 155—123)



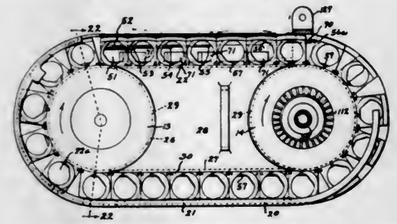
1. In composite furniture of the character described, a primary article of furniture of the general type of a sofa, settee, davenport and the like, having upstanding essentially hollow end portions, a plurality of pieces of auxiliary furniture including foldable, collapsible chairs, means for receiving, detachably holding and substantially concealing said pieces of auxiliary furniture within the end portions of said primary articles of furniture, including separable front parts of said end portions carried on sliding members hollow and with open sides arranged within said end portions, table elements mounted on portions of said sliding members by means including hinge elements for folding there against into spaced parallel relationship, said sliding members being for receiving and removably holding a plurality of pieces of auxiliary furniture within the space defined by the table elements and the ends of the sliding structure whereby, when the table elements are in raised position said pieces of auxiliary furniture can be removed and when not in use can be stored within the sliding assembly positioned in the end portions of the sofa.

2,163,350
HOLD-DOWN CLIP FOR ELECTRIC LIGHTING FIXTURES
George Ernest Oremus, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application October 28, 1936, Serial No. 108,045
3 Claims. (Cl. 240—73)



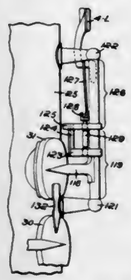
1. The combination with a fixture of the kind having a lamp which is carried by an arm, a socket for said lamp, a plate for mounting said arm upon a supporting surface, and fastening means for securing said arm to said plate, said arm being formed with a channel in which the wire leading to said socket is arranged, of a clip which is secured between said plate and arm by said means, said clip having an opening through which said wire passes and being formed with a tongue which extends in the direction of the length of said wire and which is adapted to engage said wire and hold it in said channel.

2,163,351
COIN SORTING MACHINE
Edward B. Paul, Wyoming, Ohio, assignor to Josey P. Stacey, Wyoming, Ohio
Application April 2, 1935, Serial No. 14,311
8 Claims. (Cl. 133—3)



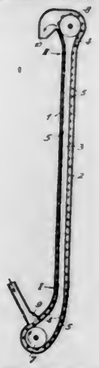
1. In a coin machine, a coin sorting mechanism comprising an elongated coin plate with semi-circular ends set at an angle transversely of its length, a driven chain running around the margin thereof, each link of the said chain forming a carrier for a single coin of any denomination, and means at the upper edge of the said plate to allow the coins to be dropped from their respective links at various stations according to their denominations, and means to enforce the dropping of the coins at their respective stations.

2,163,352
WIND INSTRUMENT OF THE REED TYPE
Edward V. Powell, Forest Hills, N. Y.
Original application September 29, 1934, Serial No. 746,110. Divided and this application August 5, 1936, Serial No. 94,388. Renewed January 27, 1939
4 Claims. (Cl. 84—385)



1. In a wind instrument of the reed type, such as a saxophone, the combination of a tube provided with a tone hole, a cover for said hole, and operating mechanism including a key, a spring, and mechanism operated by said spring normally to maintain said cover depressed and said key elevated, and to elevate said cover when said key is depressed.

2,163,353
ELEVATOR OF THE ENDLESS BAND TYPE
Ernst Roth, Uzwil, Switzerland, assignor to the firm Gebrüder Buhler, Uzwil, Switzerland
Application July 8, 1938, Serial No. 218,180
In Germany July 29, 1937
1 Claim. (Cl. 198—168)

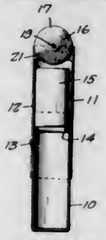


An elevator of the type described, comprising an endless conveyor band running at high velocities, cross-bars disposed on that band, a lower and an upper guide pulley for said endless band, a channel inclosing said endless band and having a vertical portion, the cross-members of the ascending run of the endless band cooperating with the adjacent wall of the vertical portion of the channel and being lightly pressed against said wall, an inlet portion of said channel, and an outlet portion of said channel, more space being provided between the channel wall and the conveyor band in the inlet portion than in the vertical portion.

2,163,354
ELECTRICAL MAKE AND BREAK CONTACT
Alfred C. Schmidt, West Englewood, and Julius F. Jack, Newark, N. J., assignors to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey
No Drawing. Application March 2, 1936, Serial No. 66,676
2 Claims. (Cl. 75—176)

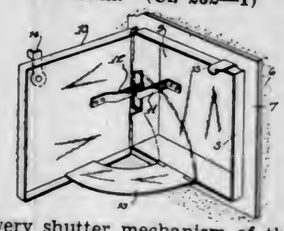
1. A metallic body adapted for use as an electrical contact which consists of from 0.1% to 2.5% of osmium and the remainder tungsten.

2,163,355
LIPSTICK HOLDER
Paul A. Sechrist, Shrewsbury, Pa., assignor of one-half to Dr. Carroll H. Gerry, Shrewsbury, Pa.
Application April 26, 1938, Serial No. 204,427
1 Claim. (Cl. 132—79)



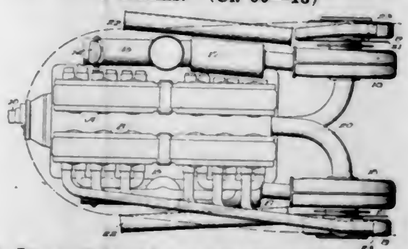
A device of the class described comprising of a pair of casings forming a holder, each casing having an open end telescopically assembled with the open end of the other casing, a lip stick in one of the casings, oppositely disposed substantially triangular wipers in the open end of the last named casing adjacent the lip stick, a shaft disposed transversely of the open end of the first named casing and having one end projecting through the casing for providing a grip through the medium of which the shaft may be rotated axially, and a double convex applicator wheel fixed to the shaft, said wheel having a sharp peripheral edge adapted to pick up a thin line of material from the lip stick, the convex side faces of the wheel having wiping contact with the wipers from a point adjacent the shaft to a point adjacent the sharp edge of the wheel for removing excess material from the wheel.

2,163,356
DELIVERY SHUTTER
Albrigt Solberg, New York, N. Y.
Application June 15, 1936, Serial No. 85,354
1 Claim. (Cl. 232—1)



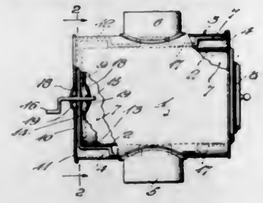
A delivery shutter mechanism of the character described comprising, a frame adapted to be positioned in the wall of a building, an outer door hinged on one edge of said frame, an inner door hinged on the opposed edge of said frame, a plate pivotally attached to the lower portion of said frame and adapted to hold the inner door in extended position, means for locking the outer door while said inner door is in extended position, said means including hook-shaped latch members carried by each door for engagement with each other.

2,163,357
MULTICYLINDER ENGINE ASSEMBLY
Louis R. Spencer, West Hartford, Conn., assignor to Spencer Aircraft Motors, Inc., Hartford, Conn., a corporation of Connecticut
Application July 19, 1938, Serial No. 220,060
9 Claims. (Cl. 60—13)



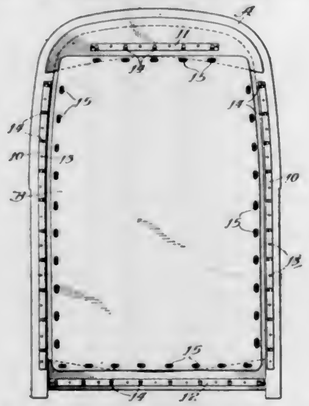
1. In an internal combustion motor assembly embodying turbines for augmenting the supply of fuel to said motor, a driven shaft, a row of cylinders extending axially of the shaft at each side thereof, a blower at the rear of each row of cylinders, a turbine for each blower, said turbines being positioned at the outer sides of said blowers with the nozzles of the turbines located at the inner sides thereof but in the slip stream of the motor and with the discharge of each turbine at the outer side thereof, carbureters for supplying fuel to said cylinders, and conduits connecting said blowers and carbureters.

2,163,358
SOOT CLEANER FOR STOVEPIPE DRUM OVENS
George H. Swearingen, Louisville, Ky., assignor to Louisville Tin and Stove Company, Incorporated, Louisville, Ky.
Application January 31, 1938, Serial No. 187,957
2 Claims. (Cl. 126—17)



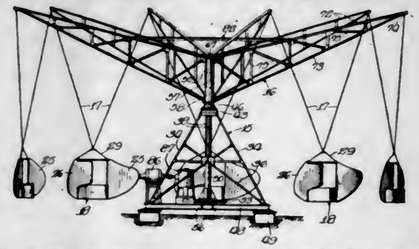
1. In a stove pipe oven having spaced outer and inner annular walls forming an outer casing, an inner oven chamber and an annular heat circulating member therebetween, and spaced end walls closing said annular walls respectively at one end of the oven, said end walls having bearing portions offset in opposite directions, a U-shaped rotary scraper embodying scraper arms mounted for movement about the heat circulating chamber and a cross portion connecting said arms and disposed in the space between said end walls, each of said arms being provided with a plurality of crank-like stiffening and scraper offsets projecting therefrom alternately in opposite directions, and in scraping and supporting engagement with both the annular walls of the casing and oven chamber at a plurality of points in the length thereof, and a shaft connected to said cross portion of the scraper and journaled upon said end walls so as to form a support for said end of the oven chamber and provided with an operating crank.

2,163,359
SEAT BACK AND THE LIKE AND METHOD OF FORMING
Clarence A. Van Derveer, Chicago, Ill., assignor to S. Karpen & Bros., a corporation of Illinois
Application August 7, 1937, Serial No. 157,963
2 Claims. (Cl. 155—187)



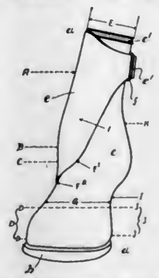
1. A seat structure comprising a perimetric frame, a series of lugs in spaced relation carried by the top portion of said frame, a series of spaced lugs carried by each of the sides of said frame and a series of lugs extending in spaced relation across the bottom portion of said frame, and an elastic sheet normally smaller than the area extending between said lugs, the edges of said sheet being equipped with means for engaging said lugs when the sheet is stretched to fill the area between said lugs, the spacing between said means upon said sheet being smaller than the spacing between the corresponding lugs upon said frame until said sheet is stretched.

2,163,360
AMUSEMENT DEVICE
Alvin Bisch, Chicago, Ill., assignor to Bisch-Rocco Amusement Co., a corporation of Illinois
Application February 6, 1936, Serial No. 62,603
3 Claims. (Cl. 272—41)



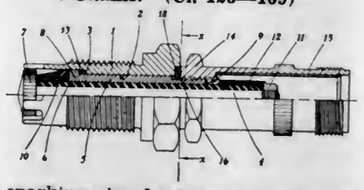
1. A flying scooter comprising a body, a vertically extending pipe secured to the rear end of said body, a second vertically extending pipe secured to the forward end of said body, a stationary stabilizer secured to one of said pipes, a rudder pivoted to the other of said pipes, and a cable extending through said pipes and encircling said body.

2,163,361
MEANS OR DEVICE FOR PROTECTING THE HOOFS OF ANIMALS
Frederick Percy Ford, Cheddar, Somerset, Albert Charles Cope, Winscombe, Somerset, and Arthur George Henry Gough, Tweentown, Cheddar, Somerset, England
Application May 5, 1936, Serial No. 78,066
In Great Britain May 24, 1935
1 Claim. (Cl. 168—2)



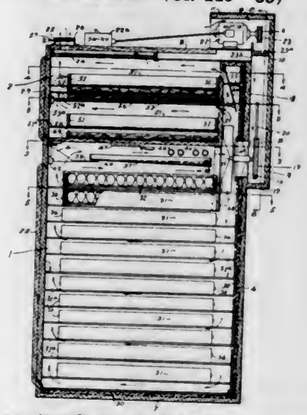
A device for protecting the hoofs of cloven-hoofed animals being of an anatomical construction to closely and naturally fit the hoof and adjacent part of the leg when applied thereto having the upper portions thereof forming an adjustable opening, one side having a slit formed therein from said opening extending downward to a given point, and an adjustable wrapover piece extending from one side of said slit and so shaped as to maintain the anatomical fitting of said device.

2,163,362
SPARKING PLUG
Henry Leonard Hall, Streatham, London, England
Application May 9, 1938, Serial No. 206,853
In Great Britain May 25, 1937
2 Claims. (Cl. 123—169)



1. A sparking plug for internal combustion engines comprising in combination an inner central element composed of a central electrode provided with a head on the inner end and a nut on the outer end thereof and practically throughout its entire length with a sleeve of insulation, a metal sleeve swaged on to the central portion of said insulation, a flange surrounding the inner end of said metal sleeve, insulations disposed between the inner face of the head of the central electrode and the inner end of the metal sleeve and between the outer end of said metal sleeve and the nut on the outer end of the central electrode, an outer plug body, the bore in which is provided with a seating against which the flange surrounding the metal sleeve on the inner central element is arranged to coact means provided on the outer end of said inner central element for drawing the flange thereon into intimate or gas-tight contact with said seating, the distance of said seating from the inner end of the plug body being such that when the parts are in the assembled position the head of the inner central element is contained within the body of the plug whereby the length of said inner central element exposed to attack by the flames of combustion is reduced.

2,163,363
INCUBATOR-HATCHER
George T. Markey, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a corporation of Wisconsin
Application January 16, 1935, Serial No. 2,069
12 Claims. (Cl. 119—35)



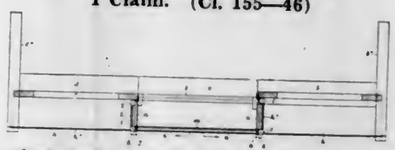
1. In an incubator-hatcher constituting substantially one structure with two separated chambers, each having egg trays and both interconnected only by an air passageway, with an air inlet common to both chambers and an air outlet in one of the chambers, the combination therewith of a rotatable air agitator so located in said interconnecting passageway as to receive air from said inlet and agitate it in two volumes, one passing through the incubator and into the hatcher and the other through the hatcher only, with portions of such air exhausting through the outlet.

2,163,364
ADJUSTABLE MEASURING CUP
Charles Raymond Ouellette, Seattle, Wash.
Application October 23, 1936, Serial No. 107,248
5 Claims. (Cl. 73—165)



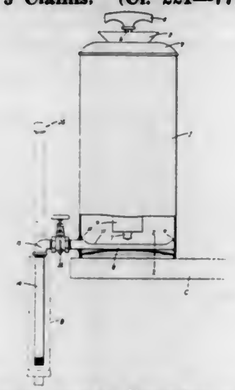
1. An adjustable measuring cup comprised of a cylindrical vessel open at the top and bottom and having longitudinally spaced parallel members secured to the vessel to extend diametrically thereof at the lower end of the same, said members being formed with openings arranged in related longitudinally aligned pairs adjacent the extremities of the members, a disk slidably fitting the inner wall of the vessel, and a U-shaped rod having the parallel arms thereof slidably received through said openings and secured terminally to the disk for operating the disk, the cross-arm of said rod and the lower of said body-supported cross members co-acting to provide a compressible handle by which the measured contents of the vessel are ejected.

2,163,365
CHAIR BEDSTEAD
Karl Richard Terschmann, Lodz, Poland
Application March 23, 1936, Serial No. 70,451
In Poland March 26, 1935
1 Claim. (Cl. 155—46)



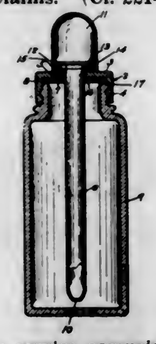
A chair-bed comprising a stationary base, a pair of side frames slidably mounted upon opposite sides of said base for movement outwardly and inwardly of said base and means for moving said side frames on said base simultaneously and in opposite directions to extend the chair into a bed and vice vera, said means including pulley means on each of said opposite sides of said base and a pair of cable systems, each of the cable systems being connected to one of said side frames and trained over the pulley means on the corresponding side of said base and connected directly to the opposite side frame.

2,163,366
PRESSURE GREASE DISPENSER
Alva A. Abbott, Turlock, Calif.
Application June 10, 1938, Serial No. 212,997
3 Claims. (Cl. 221—77)



1. A pressure grease dispenser comprising an enclosed tank, means to introduce air under pressure into the tank, a pipe extending between opposed walls of the tank adjacent the bottom thereof and initially open at one end through the adjacent tank wall, the pipe being cut away on top between said walls to form a trough, a valve disposed exteriorly of the tank and mounted in connection with said open end of the pipe, and a spout mounted on the valve.

2,163,367
DROPPER SERVICE
Spencer L. Barnes, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application August 4, 1936, Serial No. 94,200
6 Claims. (Cl. 221—148)



1. A dropper service comprising a closure cap having a top and an axially extending skirt, a sealing disk disposed within the cap in engagement with the top and skirt portions thereof, a pipette passing through an opening provided in the top of the cap and sealingly engaging the disk at the periphery of a pipette receiving opening therein, and a bulb disposed exteriorly of the cap and secured to the pipette, the opening in the top of the closure cap being of materially lesser diameter than the diameter of the bulb at the base thereof which lies in engagement with the cap and the bulb having an extended flat surface for engagement with the top of the cap surrounding the opening therein.

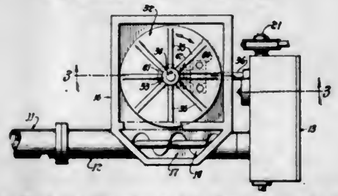
2,163,368
LEAD ALLOY
Jesse O. Betterton and Yurii E. Lebedeff, Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 24, 1936, Serial No. 70,607
1 Claim. (Cl. 75—166)

An alloy consisting of cadmium in an effective amount but not exceeding 0.5%, phosphorus in an effective amount but not exceeding 0.01% and the balance lead.

2,163,369
LEAD ALLOY
Jesse O. Betterton and Yurii E. Lebedeff, Metuchen, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application March 24, 1936, Serial No. 70,607. Divided and this application December 3, 1938, Serial No. 243,780
3 Claims. (Cl. 75—166)

1. An oxidation resistant alloy consisting of 0.001% to 0.01% phosphorus, 0.05% to 0.5% of an alloying element selected from the group consisting of antimony and arsenic, and the balance lead.

2,163,370
STOKER MECHANISM
Robert E. Bressler, Oregon, Ill., assignor to Kol-Master Corporation, Oregon, Ill., a corporation of Illinois
Application February 13, 1937, Serial No. 125,583
2 Claims. (Cl. 198—64)

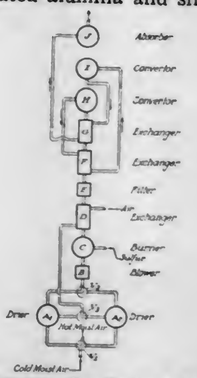


1. In a fuel feeding mechanism, a fuel duct, a fuel hopper arranged to one side of said duct and having a bottom with an outlet opening laterally into the duct, means in the duct for moving fuel therethrough, and a rotative feeding disk in the bottom of said hopper having a plurality of fuel feeding ribs engaged with the fuel in said bottom of the hopper for feeding fuel through the outlet into the duct, said ribs being arranged other than radial to the axis of the disk.

2,163,371
PROCESS OF PRODUCING SULPHURIC ACID
James B. Castner, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 4, 1936, Serial No. 57,492
2 Claims. (Cl. 23—175)

1. The process of manufacturing sulphuric acid which comprises burning sulphur with predried air to produce sulphur dioxide, cooling said sulphur dioxide to below conversion temperature by heat interchange with a fluid heat exchange medium, filtering said cooled sulphur dioxide, reheating the same to conversion temperature by means of the heat liberated in the oxidation of SO_2 to SO_3, and catalytically converting said sulphur dioxide to sulphuric anhydride, said pre-

dried air being dried by means of a drying agent comprising at least one member of the group consisting of activated alumina and silica gel, said



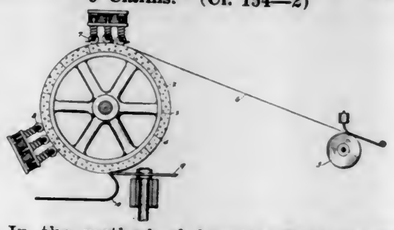
drying agent being periodically substantially completely regenerated solely by means of hot air heated by exchange with said sulphur dioxide.

2,163,372
METHOD OF FORMING DUPLEXED WEBS

Edmund Claxton and Herbert Paschke, Lancaster, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application October 20, 1936, Serial No. 106,639

9 Claims. (Cl. 154—2)



2. In the method of forming duplexed webs, the steps consisting in feeding a web of duplexing material of tissue thinness to substantially the entire width of the peripheral surface of a rotating body of cork with a thermally activatable adhesive disposed between the duplexing web and the peripheral surface of the body, applying heat to the adhesive and pressure between the web and the peripheral surface of the body to activate the adhesive and permanently join the web to the peripheral surface of the body, and severing the cork body continuously at a depth in the order of .0030" from the periphery thereof with a rotating cutting edge while imparting progressive translatory motion between the cutting edge and the body, said severance being effected at a point removed from the point of application of the web to the body so that the duplexing web serves to reenforce the cork ribbon at the point of severance from the body to obviate rupture thereof.

2,163,373
FOUNDRY MOLD

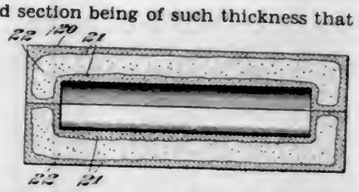
William W. Cooper, Harrisburg, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application July 2, 1937, Serial No. 151,558

Renewed May 4, 1939

6 Claims. (Cl. 22—165)

1. In a foundry mold, a section comprising sand and cement, and a section of sand, the first mentioned section being of such thickness that it has



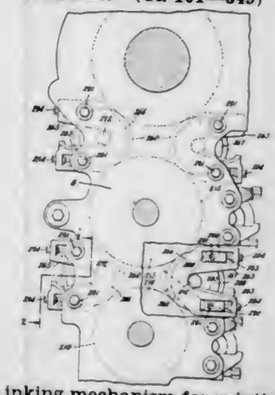
sufficient rigidity to sustain the weight of the mold when being handled.

2,163,374
PRINTING PRESS

Curtis S. Crafts, Oak Park, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Original application September 15, 1933, Serial No. 689,512. Divided and this application September 21, 1936, Serial No. 101,831

5 Claims. (Cl. 101—349)



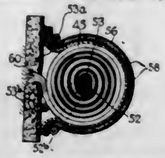
1. In an inking mechanism for printing presses, the combination of a pair of ink drums, a roller to contact with both drums, and a bracket pivoted at two points and in which the roller is rotatably mounted, the roller having its axis located substantially at the intersection of the planes connecting the pivot points with the drum axes.

2,163,375
PERMANENT HAIR WAVER

Carlota de la Garza, Chicago, Ill., assignor to Halgar, Inc., Chicago, Ill., a corporation of Illinois

Application June 17, 1937, Serial No. 148,703

3 Claims. (Cl. 132—33)



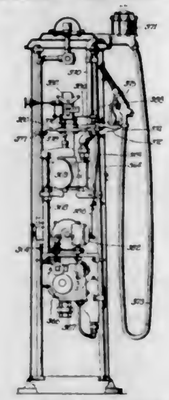
1. In apparatus for permanently waving the hair, a pair of superposed flexible sheets adapted to receive the outer end of a strand of hair therebetween, whereby said sheets and strand may be rolled together, flexible means projecting laterally from one edge of said sheets for retaining the rolled sheets and strand against unrolling, an exothermic pad wrapped around the rolled sheets and strand, and other flexible means adjacent said first named flexible means for holding the wrapped exothermic pad from falling off.

2,163,376
POINTER SETTING MECHANISM

Ivan R. Farnham and Robert J. Jauch, Fort Wayne, Ind., assignors, by mesne assignments, to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland

Application September 1, 1931, Serial No. 560,568

4 Claims. (Cl. 221—95)



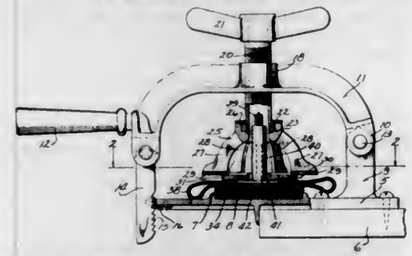
1. In a fluid dispensing apparatus, the combination of power means, a member having an aperture therein, said power means including an electric motor for delivering fluid, said means including a circuit and a manually operable switch for controlling said circuit, said switch having an extension normally registerable in an aperture whereby said circuit is initially completed and for operation of said motor, indicating means for determining quantities of fluid dispensed by said apparatus and means adjacent said first named member operated by said indicating means and normally releasably held out of alignment with said aperture when said indicating means is in a predetermined position, said means being released upon movement of said indicating means for alignment with said aperture to render said switch inoperative upon removal of said extension from said aperture and until said indicating means is returned to said predetermined position.

2,163,377
VULCANIZING EQUIPMENT

Harold H. Hanson, Waupun, Wis., assignor to The Shaler Company, Waupun, Wis., a corporation of Delaware

Application September 18, 1935, Serial No. 41,070

5 Claims. (Cl. 18—18)



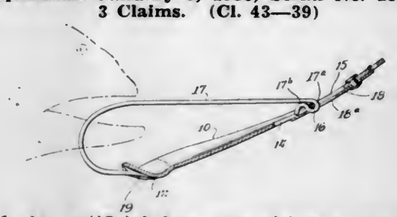
4. In a vulcanizer of the described class, the combination with an annular fuel containing upper platen, of a spider for applying pressure to said platen and having an aperture in line with the central platen aperture, and a tubular spider operating screw adapted to receive the upper end of a valve stem, the lower portion of which is encircled by said platen.

2,163,378
ARTIFICIAL FISH LURE

Alexander Horvath, Chicago, Ill.

Application January 3, 1938, Serial No. 182,967

3 Claims. (Cl. 43—39)



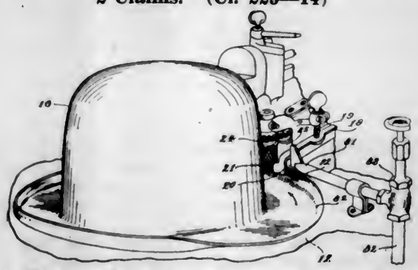
1. An artificial lure comprising a concavo-convex plate having an embossed portion at one end thereof, a pocket formed in said embossed portion, a hook provided with a piercing point pivotally mounted in the opposite end of said plate, said piercing point being arranged to lie completely within said pocket, and a flat spring secured to said plate and arranged to engage the terminal end of said hook to retain said piercing point in said pocket.

2,163,379
HAT BRIM CURLING METHOD AND APPARATUS

Ellwood Walter Kimber, Colmar, and Peter P. McManus, Philadelphia, Pa., assignors to John B. Stetson Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 5, 1937, Serial No. 140,852

2 Claims. (Cl. 223—14)



1. The combination with a curling unit comprising a shackle having heating means therefor, a curler, feeding means and guiding means for turning and presenting the edge of a hat brim to the shackle and curling unit, of means in advance of the curler for steaming and thereby preheating the brim edge progressively in the direction of its periphery and prior to presentation to the curling unit whereby the brim edge is progressively steamed and preheated and softened prior to curling.

2,163,380
AUTOMOBILE REFLECTOR

Fred Malaguti, Plymouth, Mass.

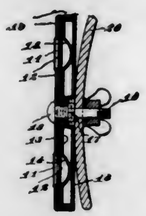
Application August 27, 1937, Serial No. 161,199

Renewed January 6, 1939

3 Claims. (Cl. 88—81)

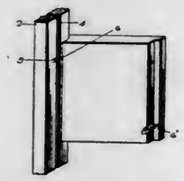
2. A reflector for automobiles and the like comprising in combination, a casing having a front wall and side walls, a plurality of circular

openings in said front wall, a soft, colored transparent plate located back of said front wall and covering said openings, a reflector plate located back of said transparent plate, the reflector area of said reflector plate comprising a plurality of depressions aligned with said circular openings the concaved surfaces of which comprise re-



flector surfaces, annular rims having sharp edges located around the peripheries of said depressions, a back plate engaging against the convexed sides of said depressions, means for clamping said front wall and back plate firmly together for the purpose of engaging said annular rims against the soft transparent plate.

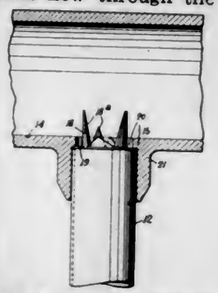
2,163,381
SELF-LOCKING BUILDING BLOCK
Edward Paul Marsan, Chicago, Ill.
Application February 23, 1938, Serial No. 191,873
2 Claims. (Cl. 72—38)



1. Building blocks adapted for a wall construction which has spaced supports each provided with a slot extending longitudinally of its face, said blocks comprising each a rearward extension equal to the height of the block and to the distance between the supports and extending only part way of the distance of the depth of said supports, each block containing locking members secured thereto and extending rearward therefrom, each member having means on the rear end to engage in the slot on said support and secure the block in position, so that the securing means of blocks positioned on opposite sides of a support will engage in one slot and the blocks will serve for making a complete outside section and likewise a complete inside section of the wall.

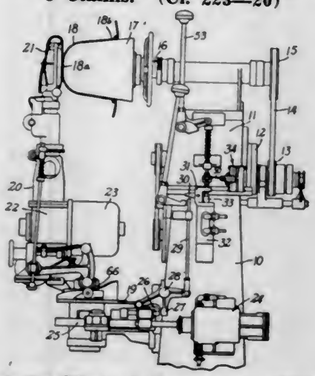
2,163,382
ORIFICE CONSTRUCTION
Milner Noble, Newark, N. J., assignor, by mesne assignments, to Carrier Corporation, Newark, N. J., a corporation of Delaware
Application June 30, 1936, Serial No. 88,109
2 Claims. (Cl. 210—164)

1. An anti-clogging orifice guard comprising a hollow crown-shaped member having a plurality of peripherally arranged crown points of unequal length extending substantially parallel to the direction of fluid flow through the orifice to be



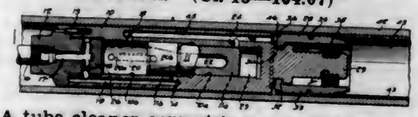
protected and in a direction counter to said direction of fluid flow.

2,163,383
POUNCING MACHINE AND METHOD OF POUNCING
Paul Schultze, Danbury, Conn., assignor to John C. Doran, doing business as Doran Brothers, Inc., Danbury, Conn.
Application July 29, 1937, Serial No. 156,330
5 Claims. (Cl. 223—20)



5. In a machine of the nature described, in combination, a hat support, means for rotating said hat support, a traversing tool for operating on the surface of a hat mounted on said hat support, means for effecting relative movement between said hat support and said tool through a path extending from the tip to the brim of a hat, automatically actuated means for reversing said relative movement when the tool is at the brim end of said path, and means for reversing the rotation of said hat support at the time of the reversal of said relative movement.

2,163,384
FLUE CLEANER
Edward W. Stevens, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application May 15, 1936, Serial No. 80,023
1 Claim. (Cl. 15—104.07)

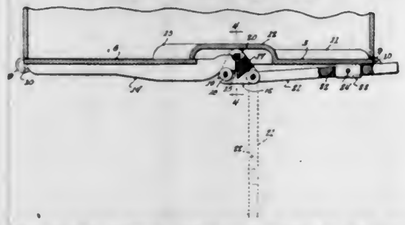


A tube cleaner comprising a cutting tool having a cylindrical cutting surface adapted to engage the interior of a tube, said cutting surface having longitudinal grooves, a support for said cutting tool, an air operated percussive motor connected to said support to impart movement thereto for operating the cutting tool, said motor having an exhaust passageway positioned to discharge a stream of compressed air through said grooves and over the cutting surface of the tool to remove particles tending to adhere to the tool.

2,163,385
CALCIUM SULPHATE PIGMENTS
Roy W. Sullivan, Richardson Park, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 30, 1937, Serial No. 166,564
4 Claims. (Cl. 23—122)

4. In a process for producing pigment calcium sulphate substantially free from crystalline hydrate the steps which comprise reacting lime with water, the temperature of the water employed being such that the hydration temperature is maintained substantially continuously between about 68° C. and about 78° C., maintaining the hydration reaction for a period of time between one and two hours, maintaining the concentration of the milk of lime between about 12% and about 20% CaO content, and thereafter reacting the milk of lime with sulphuric acid.

2,163,386
CHARGING BUCKET
James C. Sweitzer, Wauwatosa, Wis.
Application May 8, 1935, Serial No. 20,381
18 Claims. (Cl. 294—69)



1. A charging bucket having at least one movable flap forming the bottom thereof, latching means for temporarily holding said bottom in locked position, and an automatic trip release adapted to strike a portion of a furnace when the bucket is lowered into the furnace to release said flap, said trip release being inoperative when in horizontal position and being pivotally mounted to swing into vertical position for tripping action.

2,163,387
VEHICULAR TANK
Frederick G. Thwaits, Wauwatosa, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application November 16, 1936, Serial No. 111,039
5 Claims. (Cl. 220—71)

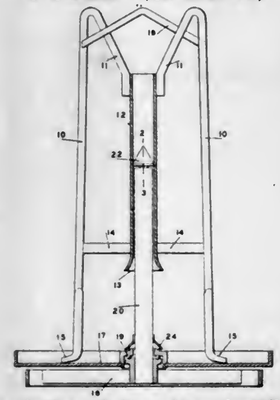


1. A vehicular tank comprising, an elongated shell having a downwardly and rearwardly inclined rear end head, an inverted U-shaped beam member rigidly attached to the top of said shell, a second U-shaped beam member rigidly attached to the bottom of said shell, and a U-shaped casing secured to the medial portion of said end head and connecting the rear ends of said members, said casing having a door for effecting access to the interior of said second beam member.

2,163,388
TREATMENT OF BARYTES
Adolph G. Wuethrich, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 17, 1938, Serial No. 196,371
7 Claims. (Cl. 23—137)

1. In the manufacture of barium black ash from barytes ore the step which comprises washing the barytes ore prior to the reducing operation with an acid selected from the group consisting of hydrochloric, sulfuric, hydrobromic, hydriodic, and hydrofluoric.

2,163,389
WIRE MILL EQUIPMENT
Lafe Young and Alfred A. Boyle, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo., a corporation of Missouri
Application December 24, 1937, Serial No. 181,667
5 Claims. (Cl. 214—91)

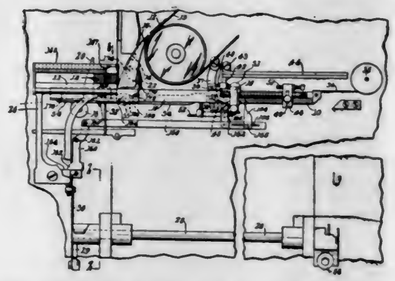


1. In a device of the class described, a detachable stripper-reel, a reel supporting member movable from vertical to horizontal position, and a skid, said skid comprising a horizontal portion for supporting a coil of wire in horizontal position, an inclined portion, and a bundle rack against which a coil may be upended from the inclined portion, the horizontal portion of said skid being so positioned with relation to the reel supporting member as to receive severed sections of wire from a reel carried on the member when the latter is in horizontal position.

2,163,390
TYPE COMPOSING AND CASTING MACHINE
Byrd S. Fine, Clinton, Mass., assignor to The Colonial Press, Inc., Clinton, Mass., a corporation of Massachusetts
Application October 22, 1938, Serial No. 236,403
10 Claims. (Cl. 199—30)

1. A type composing and casting machine com-

prising mechanism for selectively assembling matrices in a line, an elevator for receiving the assembled matrices which has spring pressed locking lugs for holding the last assembled matrix



in position, mechanism for moving the elevator, and means operated in timed relationship with the elevator movement which pushes the last matrix into position behind said locking lugs.

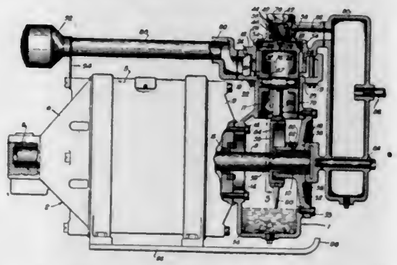
2,163,391

FLUID COMPRESSOR

Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application March 6, 1937, Serial No. 129,525

3 Claims. (Cl. 230—58)



1. In a compressor adapted to be driven by an electric motor of a type provided with a frame having a central portion having end sections secured on opposite sides thereof, the motor being also provided with an armature having a shaft supported by bearings carried by said end sections, the compressor comprising a member adapted to be secured to the motor frame central portion in place of one of said end sections and having an opening therein through which the armature shaft is adapted to extend, a compressor body associated with said member and having a bore therein, a piston reciprocable in said bore, the compressor body having therein a chamber having spaced walls, one of which is adjacent the motor and having an opening therein through which the armature shaft is adapted to extend and the other of which is disposed at the end of said armature shaft, an element adapted to be mounted on said armature shaft within said chamber and being supported only by a bearing carried by the chamber wall at the end of the armature shaft, said element being adapted to provide the only support for an end of the motor armature shaft, said element having means thereon for reciprocating said piston, said element and means being spaced from the first mentioned wall adjacent the motor.

2,163,392

MAN'S VEST

Mary Bello, Brooklyn, N. Y.

Application May 14, 1938, Serial No. 207,936

3 Claims. (Cl. 2—102)



1. In a man's vest a combination garment, comprising a garment front for extending from one's neck to one's waist along the front of one's body and openable from the neck down along its center, a neck portion connected with said front for extending about one's neck, a belt portion extending from the sides of said garment front at the waist line and opened at one side, and a slide fastener for closing said belt, straps attached at their outer end to said belt portion, means for adjustably attaching together the inner ends of said straps so that said inner ends may be adjusted for controlling the diameter of said belt portion for rigidly supporting said vest, and means on said straps and cooperating means on the belt portion to shorten the effective length of the straps for controlling the amount of said belt portion which will be gathered when said straps are adjusted.

2,163,393

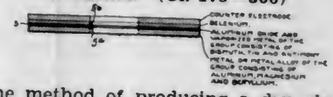
SELENIUM RECTIFIER HAVING LIGHT METAL CARRIER ELECTRODES

Fritz Brunke, Berlin-Steglitz, and Werner Koch, Berlin-Glienicke-Nord, Germany, assignors to General Electric Company, a corporation of New York

Application June 8, 1937, Serial No. 147,104

In Germany June 13, 1936

12 Claims. (Cl. 175—366)



9. The method of producing a dry plate element of the selenium type which includes providing a counter electrode and a carrier electrode composed of a material having an oxide film thereon and of the group of comprising aluminum, magnesium and beryllium and alloys of said metals, exposing said oxide film to the bombardment of ions of the metal group comprising bismuth, tin and antimony, exposing said film in vacuo to a finely divided metal to form a thin layer of said finely divided metal on said film, applying a layer comprising selenium to said last-named layer, and applying said counter electrode to said layer comprising selenium.

2,163,394

GARAGE DOOR HANGER

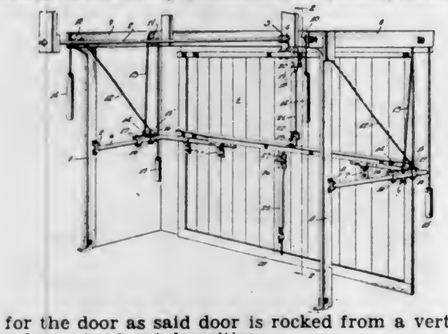
Arthur L. Clark, Wichita, Kans.

Application June 20, 1938, Serial No. 214,741

2 Claims. (Cl. 20—19)

1. In garage door hangers, hangers of the class described, an arm, one end of which is rockably connected adjacent each side edge of the door, a post spaced from the door and to which the other end of said arm is pivotally connected, on which connection the arm will rock carrying the door therewith, means to secure the post vertically, a pair of sheaves trunnioned on said means and being spaced apart, a cable to engage on each sheave, one end of each cable being secured to the arm adjacent the door and a weight connected to the other end of each cable as retaining

means for the door at its rocked position, and a track horizontally positioned as guiding means



for the door as said door is rocked from a vertical to a horizontal position.

2,163,395

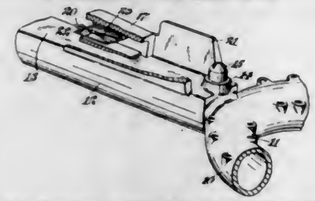
CATALYTIC IGNITION DEVICE FOR GAS BURNERS

Alec Bramley Densham, London, England, assignor to The Gas Light and Coke Company, Westminster, London, England, a British company

Application August 19, 1935, Serial No. 36,887

In Great Britain August 24, 1934

4 Claims. (Cl. 158—115)



1. A gas heater comprising a burner tube having a number of main burner jets and an auxiliary jet, means for supplying said burner tube and jets with an air-gas mixture, a catalyst chamber formed from a material of low thermal conductivity and having a passageway between inlet and outlet openings, a catalyst disposed in said throughway, which catalyst chamber is disposed out of the path of flow of the main jets and out of the path of flow of the ignited gases issuing from the auxiliary jet but with its inlet opening opposite and distant from said auxiliary jet, whereby additional air is entrained in the air-gas mixture issuing from the auxiliary jet and whereby a steady stream of the diluted unignited air-gas mixture is directed over the catalyst and the flame resulting from the combustion of the mixture is directed towards said jets.

2,163,396

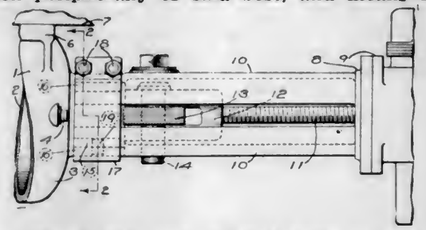
SLACK ADJUSTER

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application January 29, 1938, Serial No. 187,698

4 Claims. (Cl. 188—202)

1. In a vehicle brake equipment, in combination, a fixed element having a cylindrical boss, a slack adjuster for said brake equipment comprising a casing having two spaced resilient arms adapted to slidably engage said boss, said arms being rotatably adjustable on said boss; a clamping ring surrounding said arms and boss and adjustable relative to said arms in a direction peripherally of said boss, and means for



contracting said ring on said arms for rigidly clamping said arms to said boss in a desired position of adjustment of said arms and ring.

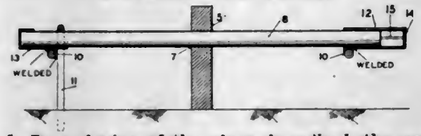
2,163,397

DOWEL ASSEMBLY FOR PAVING JOINTS

Bengt F. Friberg, St. Louis, Mo., assignor to Laclede Steel Company, St. Louis, Mo., a corporation of Missouri

Application July 22, 1935, Serial No. 32,528

6 Claims. (Cl. 94—18)



1. In a device of the class described, the combination with pavement separating means, of a plurality of dowels slidingly mounted in and extending at each side of said means, a pair of spacing bars, one positioned at each side of the pavement separating means, dowel engaging members for each end of each dowel unconnected with the separating means and welded to said bars, said members having movement on the dowels, and means for limiting the movement of the dowels in the direction of their length.

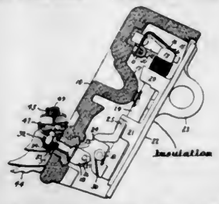
2,163,398

ELECTRIC SWITCHING DEVICE AND MOUNTING MEANS THEREFOR

Benjamin R. Hermann, Lanesboro, Mass., assignor to General Electric Company, a corporation of New York

Application November 30, 1937, Serial No. 177,244

14 Claims. (Cl. 200—114)



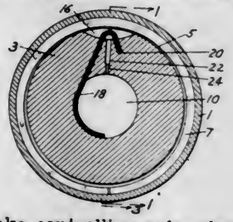
1. The combination with an electric switching device of the enclosed type having an insulating housing with a pair of spaced terminal contacts therein and means for supporting in the housing an electric switching element connected between said contacts, of a springy mounting bracket of electrically conductive material secured to said housing and having means for attachment to a bushing supported terminal stud of a transformer or the like, and means providing electric connection between one of said contacts and said mounting bracket.

2,163,399

LUBRICATING DEVICE FOR VALVE DEVICES

Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application March 21, 1936, Serial No. 70,125
19 Claims. (Cl. 184—18)



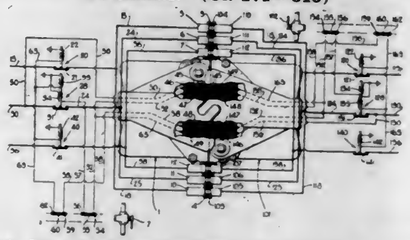
1. In a brake controlling valve device, a body having a bore therein, a piston reciprocable in said bore, a chamber associated with the piston and adapted to contain a quantity of free lubricant in liquid form, and means for transferring lubricant from said chamber to a region adjacent the periphery of the piston, said means providing the sole communication from said chamber and being arranged so that lubricant cannot flow from said chamber by force of gravity alone.

2,163,400

CONTROL SYSTEM FOR TRAIN CIRCUITS

John W. Logan, Jr., Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application March 9, 1937, Serial No. 129,824
14 Claims. (Cl. 171—313)



14. In a train current supply system, a supply line having a section on each car of a train, each car having at each end a car coupler, each coupler having associated therewith a contact for electrically connecting the section of the supply line on the car with the section of the supply line on the adjacent car, each car having at each end an electroresponsive device for normally disconnecting the section of the line on the car from the contact associated with the coupler at said end of the car, said electroresponsive device being operative on the supply of current thereto to establish connection between the section of the line on the car and the said contact, each of said couplers having associated therewith another contact separate from the aforementioned contacts and which when the coupler is coupled to another cooperates with the corresponding contact on the other coupler to establish a circuit from the section of the line on a car to the electroresponsive device on the said car.

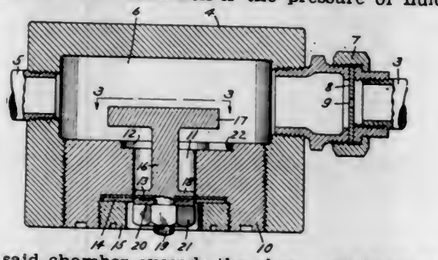
2,163,401

SAFETY PLUG

Harry C. Loudenbeck, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application November 3, 1936, Serial No. 109,001
2 Claims. (Cl. 137—111)

1. The combination with a casing having a chamber adapted to be supplied with fluid under pressure, of means for limiting the pressure of fluid in said chamber comprising a plug in said casing closing an opening through one wall of said chamber and having a bore through which said chamber is adapted to be opened to the atmosphere, an element having a predetermined resistance to shear secured in said plug closing communication through said bore to the atmosphere, means for shearing said element for opening said communication if the pressure of fluid



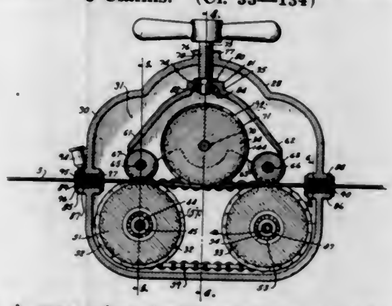
in said chamber exceeds the shear resistance of said element, said plug having in its inner face a recess normally open to said chamber and bore, and a member movable into engagement with the inner face of said plug for covering said recess upon shearing of said element, said plug having a groove of predetermined flow capacity connecting said chamber to said recess for venting fluid from said chamber when said member is in engagement with the inner face of said plug.

2,163,402

MEASURING APPARATUS

Richard C. Mason, Tulsa, Okla.

Application July 26, 1937, Serial No. 155,646
3 Claims. (Cl. 33—134)



1. A measuring device including a casing, a pair of spaced wheels journalled in the casing having peripheral grooves for receiving a measuring line, a tensioning member adjustably mounted in the casing for movement toward and from the line passing over said wheels, a measuring wheel carried by said member having a peripheral groove for receiving a loop formed in the line between said pair of wheels, means carried by the tensioning member for pressing the measuring line into contact with said pair of spaced wheels, and means interconnecting said three wheels for positive synchronous movement.

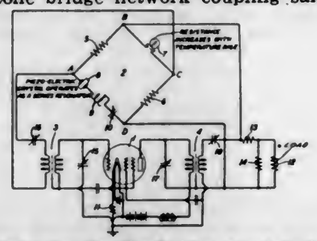
2,163,403

STABILIZED OSCILLATOR

Larned A. Meacham, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 2, 1937, Serial No. 151,564
14 Claims. (Cl. 250—36)

1. An oscillation generator comprising an amplifier, input and output circuits therefor, and a Wheatstone bridge network coupling said input



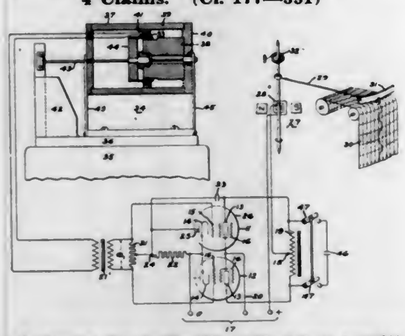
and output circuits, the bridge arms including a resonator and a resistance, the latter being variable with temperature.

2,163,404

SYSTEM FOR MEASURING VIBRATIONAL ENERGY

Milton S. Mead, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original application December 13, 1934, Serial No. 757,311, now Patent No. 2,082,646, dated June 11, 1937. Divided and this application September 27, 1935, Serial No. 42,416
4 Claims. (Cl. 177—351)



1. A device for indicating vibration amplitude of a vibrating body, said device comprising in combination, a magnetic field structure of such mass as to remain relatively stationary, a current-conducting voltage-generating coil in inductive relation with said field structure, means for causing said coil to follow the vibration of the vibrating body, and connected in responsive relation to said generating coil a tapered response alternating-current voltmeter, the sensitivity of which varies inversely with input voltage and frequency.

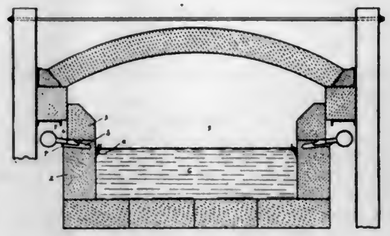
2,163,405

GLASS TANK

John Henry McKelvey and John W. Rogers, Kirkwood, Mo., assignors to Laclede-Christy Clay Products Company, a corporation of Missouri

Application July 12, 1937, Serial No. 153,154
3 Claims. (Cl. 49—54)

1. A glass tank with refractory walls provided with a plurality of cooling slots arranged in longitudinal succession and substantially at the metal line of the tank, each slot extending from the outer face of the wall inward toward the inner face, but less in its inward extent than the thickness of the wall and closed at its inner end, each slot inclined downwardly from the open outer end (which is arranged wholly above the metal line) to the closed inner end (which is arranged at but not substantially below the metal line), each slot being provided with a transversely arranged septum that extends from the outer open end inward toward but terminates short of the closed inner end thereof, dividing the outer open



end of the slot into adjacent intake and discharge openings, and defining a passageway for a cooling fluid between such intake and discharge openings, the said septum terminating inwardly at a level above the metal line.

2,163,406

MOTOR DRIVEN RAZOR

Barney R. Nyhagen, New York, N. Y.

Original application July 14, 1936, Serial No. 90,555. Divided and this application June 23, 1938, Serial No. 215,362
4 Claims. (Cl. 30—43)



1. In a power driven hair cutting implement, a combined holder and actuating member and a cutter unit carried thereby including cooperative cutter elements relatively fixed and movable with reference to said holder and actuating member, the fixed cutter element having a longitudinally extending bore and a longitudinally extending slot communicating with the bore and opening through the upper end of said cutter element with upwardly extending spaced parallel flanges having longitudinally spaced aligned transverse grooves, the movable cutter element having a body slidably fitted within the bore and formed with a radial fin extending through the slot and between said flanges and provided with longitudinally spaced transverse grooves.

2,163,407

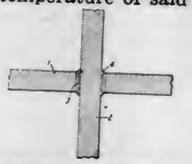
CERAMIC-TO-METAL SEAL

Hans Pulfrich, Berlin-Friedenau, Germany, assignor to General Electric Company, a corporation of New York

Application October 1, 1937, Serial No. 166,902
In Germany October 10, 1936
3 Claims. (Cl. 18—59)

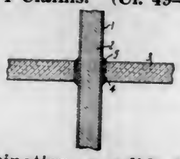
1. In combination, a metal member, a ceramic body comprising by weight about 30 per cent magnesia, 61 per cent silica, 4 per cent alumina, 2 per cent lime, and 3 per cent pyrolusite, a thin layer consisting of refractory metal powder on the surface of said ceramic body and adhesively held to said body by an eutectic solid solution of

the body, and a solder with a melting point below the softening temperature of said solution join-



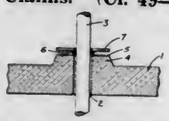
ing the metal member and the metal powder on the ceramic body.

2,163,408
VACUUM-TIGHT SEAL
Hans Pulfrich, Berlin-Friedenau, Germany, assignor to General Electric Company, a corporation of New York
Application November 22, 1937, Serial No. 175,958
In Germany November 30, 1936
4 Claims. (Cl. 49—81)



1. In combination, a solid, a solid inorganic electrically insulating body, an electrical conductor comprising a thin-walled flexible metal tube passing through an opening in said body and a mass of solid yieldable electrically conducting material filling at least that portion of said tube the walls of which are to be sealed to said body, and a mass of metal forming a vacuum-tight seal between said conductor and said body.

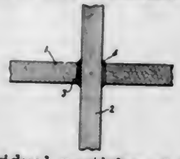
2,163,409
CERAMIC-TO-METAL SEAL
Hans Pulfrich, Berlin-Friedenau, Germany, assignor to General Electric Company, a corporation of New York
Application November 22, 1937, Serial No. 175,959
In Germany November 28, 1936
4 Claims. (Cl. 49—81)



1. In combination, a ceramic body, a metallic conductor passing through an opening in said body, an adhering layer of powdered refractory metal having a melting point materially above 2000° C. on the upper surface of said body and disposed about the opening therein, a metallic disc over said layer of powdered metal, and a mass of solder rigidly uniting said layer and said disc to each other and each to said conductor, said solder being capable of flowing under tensile stress before the tensile strength of the ceramic part is exceeded and having a melting point below the eutectic of lowest melting point formed by components of the ceramic body.

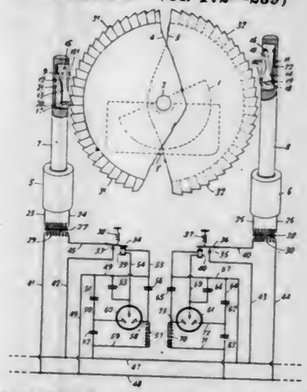
2,163,410
CERAMIC-TO-METAL SEAL
Hans Pulfrich, Berlin-Friedenau, and Richard Magner, Berlin, Germany, assignors to General Electric Company, a corporation of New York
Application November 22, 1937, Serial No. 175,960
In Germany February 12, 1937
3 Claims. (Cl. 49—81)

1. In combination, a metal member, a ceramic body containing oxide of the class consisting of titanium oxide, zirconium oxide, hafnium oxide and thorium oxide, an adhering layer of refractory metal powder on the surface of said ceramic



body, the individual particles of the said metal powder being only loosely connected with each other, and a mass of solder uniting said metal member with said layer of refractory metal and sealing said metal member to said ceramic body.

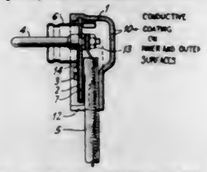
2,163,411
REMOTE CONTROL SYSTEM
Stuart W. Seeley, Bayside, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 28, 1937, Serial No. 171,486
4 Claims. (Cl. 172—239)



1. In a system for controlling the operation of a shaft from a remote point by means of a step by step mechanism which is arranged to be responsive to electrical impulses, an electrical circuit connected between the remote point and the control point, means at the remote point for generating oscillations including a selectively operable interrupting device, said means acting upon selective operation to produce electrical impulses, means for impressing the produced electrical impulses upon the electrical circuit to transmit the same to the controlled point, a relay circuit at the controlled point for operating the step by step mechanism, said relay circuit including a gas tube permanently connected to the electrical circuit and acting upon receipt of the transmitted impulses at the controlled point to cause the energization of the relay with each received impulse and thereby operate the step by step mechanism.

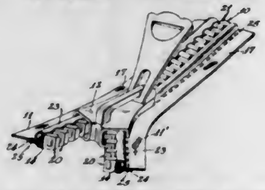
2,163,412
SHIELDED CONNECTOR DEVICE
Oskar Schneider, Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt, Germany
Application July 8, 1936, Serial No. 89,610
In Germany August 2, 1935
2 Claims. (Cl. 173—330)

1. A connector device for connecting the conductor of a shielded transmission cable to electrical apparatus comprising a cup-shaped casing of insulation material, means for shielding said casing comprising a coating of a metallic substance on at least one of the surfaces of the casing, a closure for said casing comprising a metallic plate mounted within the casing, a plug mounted on said plate but insulated therefrom whereby the plug is insulated from the coating



on said casing, means within said casing for receiving the shielded cable and connecting the inner conductor thereof to the plug, a metallic contact cylindrical member secured to said metallic plate and surrounding but insulated from said plug, and a conductive connection within said casing between the shielding means of the cable and the coating of metallic substance to provide continuity between the cable surrounding means and the metallic coating.

2,163,413
SLIDE FASTENER
David Silberman, Brooklyn, N. Y., assignor, by mesne assignments, to Universal Slide Fastener Co., Inc., New York, N. Y., a corporation of New York
Application December 15, 1937, Serial No. 179,843
4 Claims. (Cl. 24—205)



1. A stringer for slide fastener assemblies, comprising a folded tape and scoops each having a head and leg portions carried thereon in spaced relationship, the legs of the scoops being mounted to straddle and clamp the fold edge of said tape, the respective tape sections leading from the fold edge defining a body and a flap, a longitudinally extending ladder formation intermediate the flap section and providing apertures bounded by spaced threads in one direction only, the flap section being disposed through displacement about the fold edge as an axis, whereby a portion thereof serves to cover the legs of the scoops clamping the same and the threads of the ladder formation thereon rest between the scoops, the free end of the flap section being adjacent and parallel to the body section.

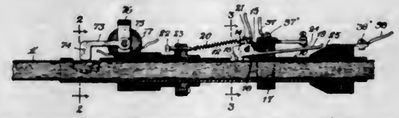
2,163,414
CIGARETTE ROD FORMING MECHANISM
Constantine S. Stephano, Elkins Park, Pa.
Application March 16, 1937, Serial No. 131,137
1 Claim. (Cl. 131—43)

In a continuous rod cigarette making machine a stationary rod forming member having a concave smooth surfaced portion tapering from the beginning to the end, a tobacco feeding belt positioned beneath and spaced from the concave portion and adapted to feed a stream of tobacco particles beneath said portion so as to form the stream into a continuous rod of tobacco, and a flexible feed belt extending along the entire length of the concave smooth surfaced portion and having means for feeding it in the direction of feed of the stream of tobacco, the space above



the first mentioned belt in the path of movement of the stream of tobacco immediately prior to the cigarette rod forming member being free from obstruction so that the tobacco particles are in an uncompressed state when in first contact with the concave smooth surfaced portion of the cigarette rod forming member.

2,163,415
REGULATOR AND INDICATOR FOR CIGARETTE MAKING MACHINES
Constantine S. Stephano, Elkins Park, Pa.
Application May 11, 1937, Serial No. 141,987
1 Claim. (Cl. 131—39)

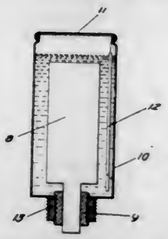


In apparatus for use with a continuous rod cigarette making machine for progressively varying the speed of operation of the tobacco feed inversely with the density of the cigarette rod, a control device comprising a tubular member formed with an aperture in the side thereof positioned in the path of the cigarette rod so that the rod passes through the central bore of the member, a lever having pivotal connection with the member, the pivotal connection being nearer one end of the lever and the lever being positioned so that the shorter end may enter through the aperture in the member and engage the cigarette rod with the longer end projecting outwardly from the tubular member, tension means for urging the shorter end of the lever into engagement with the cigarette rod under predetermined pressure, and a pair of contacts positioned on opposite sides of the longer end of the lever in the arcuate path thereof, so that the said contacts may be engaged by the end of the lever when the density of the rod varies more than a predetermined amount, a drive shaft, a driven shaft, connected to the tobacco feed mechanism, a variable speed ratio operating connection between the drive shaft and driven shaft, an electric motor connected to the variable speed ratio operating connection so as to vary the speed ratio thereof, and a pair of electric circuits each connected to one of said contacts and to the lever for causing the operation of the electric motor, when the lever engages a contact.

2,163,416
ELECTROLYTIC DEVICE
George K. Sziklai, New York, N. Y., assignor to Electro-Mechanical Research, Inc., Brooklyn, N. Y., a corporation of New York
Application April 6, 1936, Serial No. 72,878
1 Claim. (Cl. 175—315)

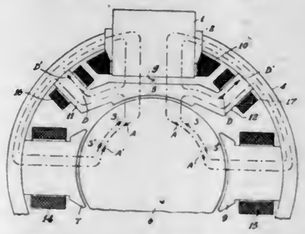
An electrolytic condenser for use in connection with a direct current having a pulsating component comprising an anode of a film-forming metal, a cathode of a film-forming metal

said cathode also acting as the container for the condenser electrolyte, and a cathanode conductively connected to said cathode, said cathanode being of a non-film-forming metal and



inhibiting the formation of a film on said cathode, the joint between said cathanode and said container being disposed outside of said electrolyte.

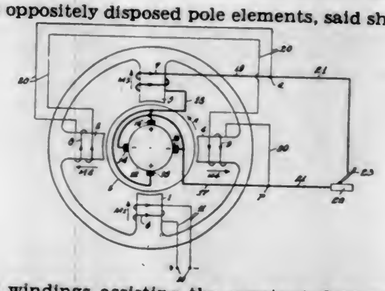
2,163,417
DIRECT-CURRENT GENERATOR FOR ARC WELDING
Ernest E. Tisza, Englewood, and Joseph Tyrner, Elizabeth, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application August 25, 1938, Serial No. 226,660
7 Claims. (Cl. 171—227)



1. In a direct-current arc-welding generator having an armature and a bucking series-field winding, a field magnet frame construction comprising an outer yoke, a regulating pole inwardly and outwardly movable through said yoke and winding, and a bridge member formed on one side with an extension contacting with said yoke, said regulating pole being adapted for movement into and out of engagement with said bridge member through which passes into said armature part of the flux produced by said winding, the remaining part of said flux being by-passed through said extension.

2,163,418
DIRECT-CURRENT ARC WELDING GENERATOR
Ernest E. Tisza and Joseph Tyrner, Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application November 25, 1938, Serial No. 242,202
6 Claims. (Cl. 171—223)

1. A direct-current generator for arc welding comprising a four-pole series-wound armature, a field magnet frame having four pole elements circumferentially disposed about said armature, a constant-field winding carried by one pole element, a series-field winding carried by the oppositely disposed pole element, and two shunt-field windings respectively carried by the remaining two oppositely disposed pole elements, said shunt-



field windings assisting the constant-field winding and opposing the series-field winding.

2,163,419
REPEATING ALARM TIMER
Henry E. Warren, Ashland, Mass., assignor to Warren Telechron Company, Ashland, Mass., a corporation of Massachusetts
Application September 29, 1937, Serial No. 166,368
7 Claims. (Cl. 161—23)



4. An alarm timer, comprising a time graduated dial, an indicator movable with respect to said dial, a synchronous motor, a driving connection between said motor and indicator whereby the indicator may be driven with respect to said dial to indicate the passage of time, said driving connection including disconnecting clutch means, electromagnetic means energized when the motor is energized for operating said clutch means to complete said driving connection, resilient means effective when the motor is deenergized to operate said clutch means to interrupt said driving connection, a stop on the indicator side of the clutch means for stopping time indicating movement of said indicator after it has been driven for a predetermined adjustable time, such stopping action and the continued operation of said motor causing clipping action of the clutch means, an alarm operated by the electromagnet means in response to such slipping action and the continued operation of said motor and a spring which is wound when the indicator is driven for returning the indicator to an initial position when the motor is deenergized.

2,163,420
SWIVEL
William A. H. Wells, Providence, R. I.
Application November 10, 1937, Serial No. 173,777
4 Claims. (Cl. 24—240)



2. A connector comprising a seamless hollow

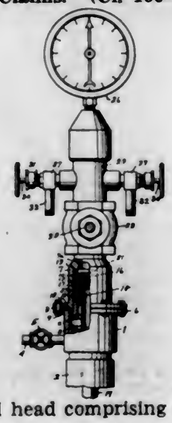
body provided with an end wall having spaced openings to provide an integral pivot bar, one of said openings receiving therethrough a bow which is fixed to the body, a tongue embracing said pivot bar to rockably mount the tongue thereon, and also a spring contacting and acting to relatively urge said bow and tongue in opposite directions.

2,163,421
GARDEN RAKE
Nicola Caramanico, Philadelphia, Pa.
Application May 17, 1938, Serial No. 208,361
5 Claims. (Cl. 55—10)



1. In a garden rake comprising a handle and a plurality of flat metal strips forming divergingly extending tines, said tines being disposed in unitary pairs, the tines of each pair being joined to each other by an integral bent portion, the bent portions of the pairs of tines being nested, means for securing the nested bent portions of the tine members to the handle, a pair of transversely extending bars secured to the handle and having the tines extending therebetween, and a plurality of spaced rivets extending through said bars between said tines serving to maintain the tines in spaced divergent positions.

2,163,422
TUBING CONTROL HEAD
Walter L. Church, Houston, Tex., assignor of one-half to William L. Pearce, Houston, Tex.
Application December 30, 1935, Serial No. 56,636
9 Claims. (Cl. 166—14)



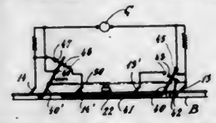
1. A control head comprising a tubular casing head, a tubing head thereon having an inside seat, an annular packing on the seat, a slip assembly on the packing, a hanger coupling adapted to be connected to a tubing, said coupling and slip assembly having interlocking means releasable upon rotation of the coupling, and engageable upon longitudinal upward movement of the coupling relative to said assembly.

2,163,423
STOCKING PROTECTOR
Delma Crichton, New York, N. Y.
Application May 12, 1938, Serial No. 207,427
3 Claims. (Cl. 36—2)



1. A stocking protector comprising a flexible body having a stiffening cuff at one end and a band at the opposite end, said band having a non-elastic section secured to said body and an elastic section having its ends connected to the ends of said non-elastic section, said band being of a size to snugly fit against the leg of the wearer, said body being substantially tubular and of a size to readily fit over the leg of a person, and an elastic arch strap connected to said cuff positioned to extend beneath the shoe of the person wearing the protector for elastically holding the protector against rising independently.

2,163,424
RAIL FLAW DETECTOR MECHANISM
Harcourt C. Drake, Hempstead, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application December 31, 1935, Serial No. 56,978
22 Claims. (Cl. 175—183)

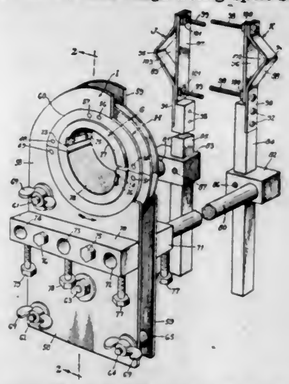


3. In a detector mechanism adapted to travel along the rails of a track for detecting flaws therein, a source of current, means for establishing a main circuit from said source through said rail, means for establishing an auxiliary circuit from said source through said rail, a detector unit, one of said circuits being arranged so that current enters said rail closer to said unit than current from the other circuit, and means whereby either of said circuits may be rendered effective and the other circuit rendered ineffective.

2,163,425
GRINDING DEVICE
John Emerson, Irvington, N. J.
Application September 22, 1938, Serial No. 231,114
3 Claims. (Cl. 51—73)

1. A grinding device comprising a rotatable grind ring to receive interiorly thereof a journal to be ground, a rotatable drive ring encircling and carrying said grind ring, a support for carry-

ing said drive ring and means for causing rotation of said drive ring around said journal to grind the same, said rings being split so that they



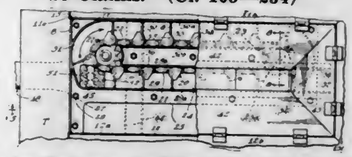
may be placed upon the journal, the split elements of said grind ring being separated by a coil spring and a bolt adjustably to draw up said coil spring.

2,163,426

LOCOMOTIVE TENDER

Francis Hogg, Wesleyville, Pa., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y., a corporation of Delaware

Application December 24, 1935, Serial No. 56,021
Renewed May 17, 1938
26 Claims. (Cl. 105—234)



1. A tender construction comprising a frame, fuel and water compartments, and partition plates above said frame separating the fuel and water compartments including a fuel bin floor, fuel transferring means comprising an endless conveyor mounted wholly above said fuel bin floor and arranged for movement about a vertical axis, and a conveyor below the level of said fuel bin floor receiving fuel from said endless conveyor.

2,163,427

LAMP SHADE

Joseph O. Howard, Chicago, Ill., assignor to Sail-Me Company, Inc., Chicago, Ill., a corporation of Illinois

Application October 23, 1935, Serial No. 46,257
4 Claims. (Cl. 240—10.1)



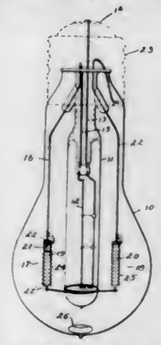
1. A lamp shade, comprising a frustum-shaped element having a plurality of radially disposed vane members at the upper portion thereof and formed integrally therewith to provide a unitary structure, and an axially disposed bearing member secured to said element adjacent the hub portions of said vane members, said bearing member being provided with an integral, laterally extending counter-weight.

2,163,428

ENCLOSED ARC LAMP

George E. Inman, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application July 21, 1931, Serial No. 552,209
3 Claims. (Cl. 176—122)



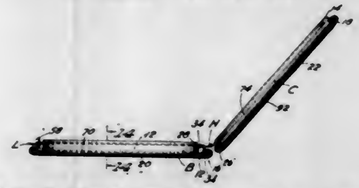
1. An electric discharge lamp comprising an envelope containing an ionizable medium, a pair of lead-in conductors extending into said envelope, a pair of spaced electrodes in said envelope each comprising a metallic tube having a coating of material adapted to emit electrons when heated, a filamentary heater within each of said tubes, an end of each of said tubes and its cooperating heater being electrically connected to one of said lead-in conductors, a conductor electrically connecting the opposite ends of said heaters, and a metallic grid member of open structure surrounding substantially the full length of each of said tubes and in electrical communication therewith but spaced therefrom to serve as a shield therefor.

2,163,429

POCKET CASE ESPECIALLY FOR LADIES' COMPACTS

Max Kaplan, New York, and George Rosenberg, New Rochelle, N. Y.

Application May 21, 1938, Serial No. 209,222
19 Claims. (Cl. 132—83)



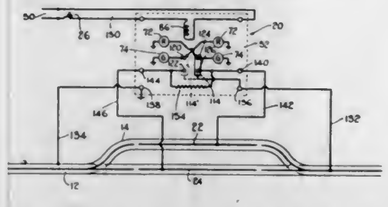
1. A pocket case comprising a frame ring having a peripheral flange, flexible covering material, and an annular clamping ring concealed between said covering material and frame ring, the edge of said covering material being turned inwardly about the edge of the clamping ring, and the resulting covered edge being bent inwardly about the aforesaid peripheral flange of the frame ring in order to secure the covering material in place with an exposed edge of covering material.

2,163,430

SIDING CONTROL AND SIGNAL FOR TOY RAILROADS

Roderick V. King, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application August 14, 1936, Serial No. 95,980
9 Claims. (Cl. 246—22)



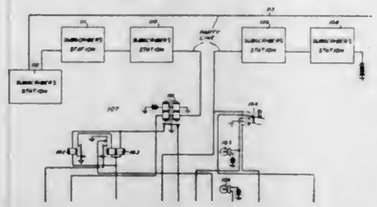
1. The combination with a toy railroad track having a third rail which is divided to form two control sections, of remote control means therefor comprising a solenoid operated tumbler switch including a solenoid, a solenoid core reciprocable therein, an oscillatable tumbler, and linkage so connecting said core and tumbler that successive energizations of the solenoid cause the core to move the tumbler alternately to extreme positions, remote control means of the push-button type to energize the solenoid, electrical contact means cooperating with said tumbler in such manner as to energize one or the other of said third rail control sections, and a fixed resistor connected between the two control sections to supply a low voltage holding current to that one of the control sections which is otherwise deenergized, to thereby prevent deenergization of certain electrically operable devices, but said current being insufficient to continue operation of the propulsion motor of a train on said track.

2,163,431

PRINTING TELEGRAPH EXCHANGE SYSTEM

Fullerton S. Kinkead, Ridgefield Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 30, 1935, Serial No. 13,859
13 Claims. (Cl. 178—2)



1. A telegraph exchange system comprising a plurality of stations, circuits extending from said stations, a switching station whereat said circuits terminate, a plurality of other stations connected in series in certain of said circuits, and means at said switching station for selectively interconnecting in response to code signals any one of said stations with any one of the other of said stations individually, said means being further arranged, in response to a particular code signal, to interconnect any one of said stations with two or more of the other of said stations for broadcast purposes.

2,163,432

FILTER FOR TOBACCO SMOKING PIPES, CIGARETTE AND CIGAR HOLDERS

John August Kostamo, New York, N. Y.

Application March 3, 1938, Serial No. 193,624
3 Claims. (Cl. 131—215)



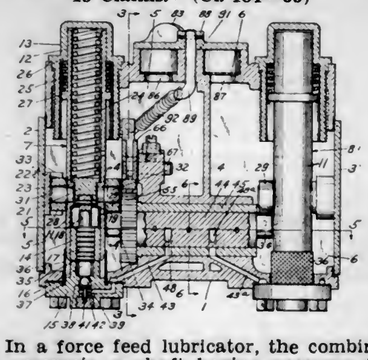
1. In a smoker's article of the class described, a body portion having a passage for the smoke and a recess extended in from one side and connecting with said passage, a tubular member set into said recess with its walls engaging the walls of the recess and having niches in its end walls aligned with said passage, a receptacle or hollow member for holding an absorbent element extending into said passage and formed with a closed outer side and engaged into said tubular member with its walls engaging the walls of said tubular member and movably mounted thereon.

2,163,433

FORCE FEED LUBRICATOR

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application May 24, 1935, Serial No. 23,242
15 Claims. (Cl. 184—35)



1. In a force feed lubricator, the combination of a reservoir, a shaft having passages therethrough, a passage for supplying lubricant from said reservoir to the passages in said shaft, passages for supplying lubricant from the passages in said shaft to parts to be lubricated, said shaft being provided with a ratchet wheel and a cam, means for actuating the ratchet wheel at intervals, biasing means for resisting said movement and effective when the shaft has reached a position just prior to registration of said several cooperating passages to spin the shaft past the position of registration of said cooperating passages to effect the supply of a measured amount of lubricant to said parts to be lubricated.

2,163,434

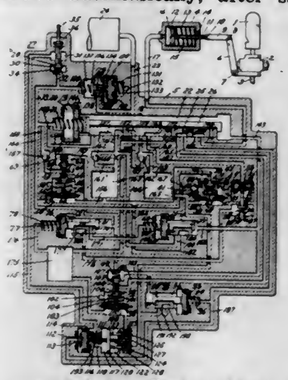
SIGNALING DEVICE

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application January 28, 1937, Serial No. 122,701
30 Claims. (Cl. 116—24)

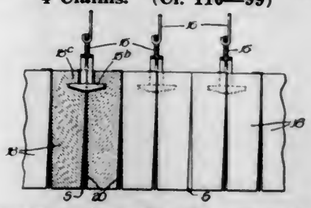
1. In combination, a signal device, control means operative to control operation of said signal device, a device having a normal position and operative upon movement from said position to initiate the operation of said control means and

then returnable to said position, and fluid pressure controlled mechanism set in operation upon the operation of the initiating device and operative after return of said initiating device to said normal position for automatically effecting intermittent operation of said control means, said fluid pressure controlled mechanism comprising means controlled by variations in fluid pressure and operative automatically, after said signal



device is operated to effect a blast of predetermined length, to effect the operation of said control means to cause said signal device to cease operating, and other means controlled by variations in fluid pressure and operative automatically a predetermined interval of time after the signal device has ceased operating, to cause said control means to again operate to cause said signal device to effect another signal blast.

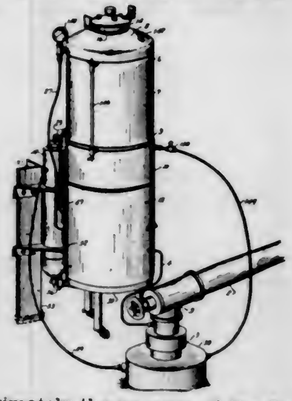
2,163,435
FURNACE ROOF CONSTRUCTION
Charles F. Pollen, Winnetka, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware
Application December 1, 1933, Serial No. 700,424
4 Claims. (Cl. 110—99)



1. Furnace roof construction comprising supports, non-acidic refractory tiles suspended thereon by their upper ends, said tiles tapering toward their lower ends and arranged in lateral association with one another, and ferrous metallic plates supported at their upper end portions and arranged between and in contact with lateral surfaces of adjacent tiles and having some of their material coalesced with some of the material of the lower portions of tiles which they contact.

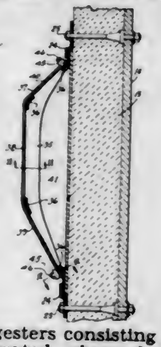
2,163,436
CHEMICAL FEEDING APPARATUS AND AUTOMATIC CONTROL THEREFOR
Gwynne Raymond, Oklahoma City, Okla., and Walden W. Mason, Kansas City, Mo.
Application May 20, 1937, Serial No. 143,770
13 Claims. (Cl. 210—1)

1. In an apparatus for introducing treating chemical into the flow from an oil and gas well, a chemical supply means, a reciprocatory pump, means connecting the chemical supply means with the pump, means connecting discharge of the pump with the well flow, means for delivering gas from said well to the chemical supply means whereby chemical is delivered to the pump



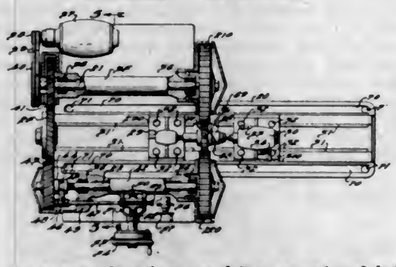
at approximately the pressure of the flow, a diaphragm actuator connected with the pump, means supplying gas to the diaphragm actuator for operating the pump to inject a charge of chemical into the well flow, and means for controlling said gas supply to the diaphragm actuator for automatically effecting reciprocation of the pump.

2,163,437
SCREEN FOR DIGESTERS
Harry H. Richmond, Portland, Oreg., assignor to Electric Steel Foundry Company, Portland, Oreg., a corporation of Oregon
Application February 24, 1936, Serial No. 65,319
1 Claim. (Cl. 92—7)



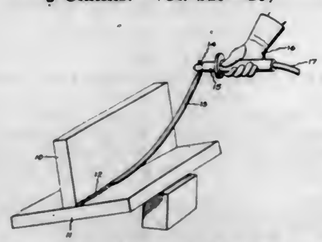
A screen for digesters consisting of a plurality of arcuate, perforated, channel-shaped screen sections adapted to be united into a complete circular screen whose outermost edges conform to the diameter of the interior of a digester, the intermediate portions of said screen having a smaller radius than do the upper and lower edges thereof, clamp members for holding the edges of said screen in a fixed position against the interior of the digester, and a valve controlled conduit communicating between the space existing between said screen and the digester wall and with the interior of the digester, the total area of the perforations in said screen exceeding the cross sectional area of said conduit.

2,163,438
LAPPING MACHINE
Stanley M. Shaw, Dearborn, Mich.
Application August 19, 1938, Serial No. 225,789
6 Claims. (Cl. 51—26)



1. In a gear lapping machine, a pair of laterally spaced parallel lap spindles adapted to rotate at equal speed in the same direction, a gear lap on each spindle rotatable therewith, means for mounting a gear to be lapped in mesh with said laps freely rotatable by said laps, means for advancing the rotation of one lap with respect to the other during the rotation of the said laps whereby to apply lapping pressure between said laps and the said gear to be lapped, and means for limiting the said advance of the rotation of one lap with respect to the other whereby to fix the maximum depth to which the work may be lapped.

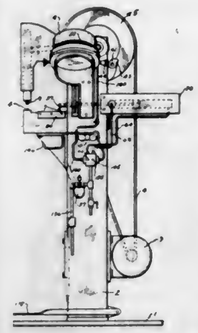
2,163,439
ARC WELDING
Gareth G. Somerville, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 16, 1936. Serial No. 105,860
3 Claims. (Cl. 219—10)



1. The method of electric arc welding which comprises progressively applying to the work parallel to the line of welding the convex side of a curved electrode having an electrically insulating flux coating thereon which during welding is progressively consumed, establishing an arc between said electrode and the work, and rocking said electrode along its convex side to control the length of the welding arc.

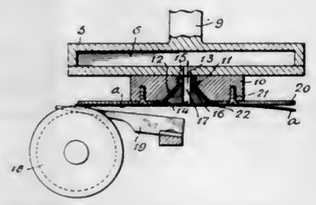
2,163,440
RIVETING MACHINE AND THE LIKE
Harold A. Tomkins, Jackson, Mich., Jackson City Bank and Trust Company, executors of said Harold A. Tomkins, deceased, assignors to Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application December 7, 1935, Serial No. 53,404
Renewed September 26, 1938
15 Claims. (Cl. 218—2)

1. A machine of the character described comprising a fixed anvil, a reciprocable carriage, means to dispose an upsettable member on said



carriage and means to transfer the upsettable member from said carriage to said anvil.

2,163,441
SHEET TRANSFERRING DEVICE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application November 4, 1937, Serial No. 172,721
3 Claims. (Cl. 294—64)

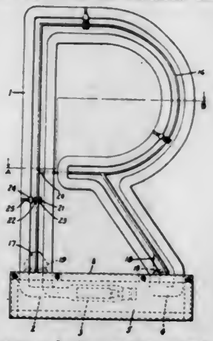


1. A sheet transferring device comprising a suction head arranged for connection with a source of suction, a rigid backing plate carried by said suction head and provided with an opening, and a flexible mouthpiece carried by said suction head and normally projecting outward through said opening beyond said backing plate, said mouthpiece conforming itself to varying sheet surface contours and flexing into said opening to develop a localized air-tight suction connection with a predetermined portion of said sheet, the latter outside of said localized connection lying in surface engagement with said backing plate.

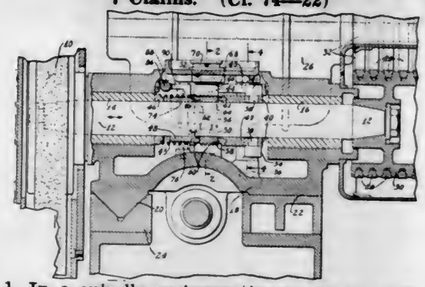
2,163,442
LUMINOUS SYMBOL FOR ADVERTISING PURPOSES
Kurt Wiegand, Berlin-Hohen-Neuendorf, Germany, assignor to General Electric Company, a corporation of New York
Application December 15, 1938, Serial No. 245,864
In Germany February 22, 1938
3 Claims. (Cl. 40—130)

1. A luminous symbol comprising a strip-like core member bent to the shape of the desired symbol so as to be readable edgewise, and electric luminous tube means extending parallel to

and on both sides of said core member to form the luminous symbol in double lines, said luminous tube means being supported directly from said core member.



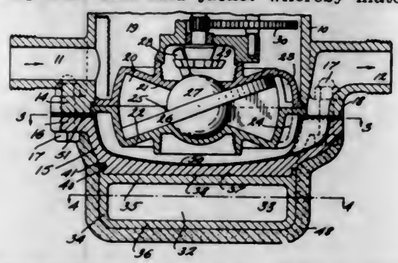
2,163,443
GRINDING WHEEL RECIPROCATING MECHANISM
Allan C. Abrams, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application November 14, 1935, Serial No. 49,730
7 Claims. (Cl. 74—22)



1. In a spindle reciprocating mechanism for a grinding machine including a grinding wheel, a power driven grinding wheel spindle and supporting bearings for the spindle, the combination of a spindle reciprocating member, driving connections for driving said member from the spindle at a reduced rate, a clutch in said connections for disconnecting said member from its driving connections to arrest spindle reciprocation, and control means for said clutch comprising cam and follower elements associated with said clutch acting when rendered operative to cause the disengagement of the clutch.

2,163,444
LIQUID METER
Charles K. Bassett, Buffalo, N. Y.
Application March 24, 1938, Serial No. 197,898
1 Claim. (Cl. 73—258)

A liquid meter for handling liquids at high temperatures, comprising an inner relatively broad and shallow casing forming a measuring chamber of the type having a nutating piston therein, an outer casing including an upper section and a lower section separably joined on a substantially horizontal plane passing approximately through the center of said inner casing, said meter having indicating mechanism in said upper section above said measuring chamber, and said mechanism having operative connection with said nutating piston, said lower section being formed of aluminum and having a bottom wall which extends beneath and relatively close to the casing of said inner chamber and having an annular side wall which extends up around the sides of and relatively close to the inner chamber casing, a thin copper liner conforming in shape to and fitting against the inner face of said bottom and side walls of said lower outer casing section, a hollow chambered heating jacket having a top wall conforming to and fitting against the lower face and adjacent side portions of said outer lower casing section, and means for introducing heat into said jacket whereby material



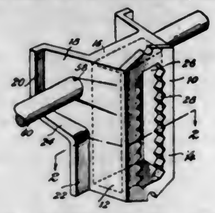
passing through said measuring chamber may be heated by the transference of heat from said jacket through said aluminum walls of said outer lower casing section and said copper liner to and around the adjacent measuring chamber, said jacket and said side walls of said lower outer casing section having a permanently secured unitary heat insulating outer covering thereon, and means for detachably securing said upper and lower outer casing sections together so that upon separating said sections, said inner measuring chamber may be rendered accessible, while said lower section, said liner, said jacket and said insulating covering are removable as a unit.

2,163,445
BITUMEN DISPERSIONS AND PROCESS OF MAKING SAME
Leonard Gowen Gabriel and John Frederic Thomas Blott, London, England, assignors, by mesne assignments, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts
No Drawing. Application July 31, 1935, Serial No. 33,963. In Great Britain August 2, 1934
9 Claims. (Cl. 134—1)

1. A dispersion of bitumen in water of relatively high stability suitable for road making, said dispersion containing, as a dispersing agent, a water soluble alkali metal soap of a solid rosin and containing, as a stabilizing agent, a calcium salt of a solid rosin whereby said dispersion will be characterized by freedom from putrefaction and abnormal flow properties and by stability to mixing with fine mineral aggregate and with solutions of moderate concentrations of electrolytes other than mineral acids.

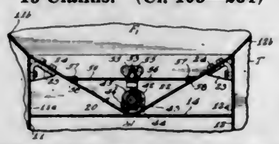
2,163,446
INSERT ANCHOR
Richard P. Heckman, Chicago, Ill.
Application August 17, 1937, Serial No. 159,572
2 Claims. (Cl. 72—105)

1. As a new article of manufacture, an insert designed primarily to support an apertured structural element and comprising an elongated box adapted for embedment in a concrete wall and including an exposed front wall with a longitudinal slot therein and opposed notches along the sides of the slot, and also including side, back and end walls adapted to be surrounded by the concrete and to form a compartment with the front wall, and a bolt consisting of an externally threaded shank adapted to extend through the aperture of the structural element and to carry an element clamping nut, and a transversely elongated block-like head connected fixedly and rigidly to one end of the shank and having the ends thereof projecting an appreciable distance outwardly of the shank and provided at the points of connection to said one end of the shank with oppositely facing sets of teeth corresponding in shape to the notches and terminating inwardly of the end extremities of the head, said bolt being



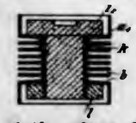
adapted to have the head thereof inserted into the compartment by arranging it lengthwise of the slot and then passing it through said slot and being further adapted to be moved bodily lengthwise of the slot to any desired position and then turned ninety degrees and moved away from the box to bring the sets of teeth into interlocked relation with the adjacent notches and the end extremities of the head into abutment with the inner face of the box front wall, said teeth and notches being extremely close fitting when in engagement and being of such thickness that when the box is in a vertical position and the bolt is in its operative position, they coact securely to lock said bolt in a horizontal position against tilting and thus facilitate mounting of the structural element on the bolt shank.

2,163,447
LOCOMOTIVE TENDER
Francis Hogg, Wesleyville, Pa., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y., a corporation of Delaware
Application March 3, 1936, Serial No. 66,805
Renewed May 17, 1938
15 Claims. (Cl. 105—234)



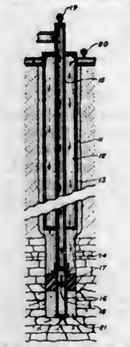
1. A tender construction comprising a frame, fuel and water compartments, and partition plates above said frame separating the fuel and water compartments including a pair of side partition plates and a fuel bin floor, fuel transferring means comprising a trough conduit mounted within said fuel compartment and immediately above said fuel bin floor for receiving substantially all of the fuel in said fuel compartment, a screw conveyor in said trough conduit arranged to advance fuel toward the forward end of said tender, said trough having diverging side walls extending laterally to said side partition plates, and a conveyor below the level of said fuel bin floor receiving fuel from said screw conveyor.

2,163,448
VARIABLE INDUCTANCE DEVICE
Franz Otto, Neu-Finkenkrug, near Berlin, Germany, assignor to Steatit-Magnesia Aktiengesellschaft, Berlin, Germany
Application May 5, 1936, Serial No. 78,004
In Germany July 2, 1935
11 Claims. (Cl. 171—242)



1. A reactor of the class described, including a body of insulating material having a pair of opposed sides each formed with an outwardly facing recess connected by a bore, said bore being of smaller cross-sectional area than the cross-sectional area of the recesses in a plane normal to the axis of said bore, and a core received in the bore and having parts disposed in said recesses.

2,163,449
METHOD OF TREATING A WELL
William D. Owsley, Duncan, Okla., and Clarence F. Seeber, Hutchinson, Kans., assignors to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application January 3, 1938, Serial No. 183,106
3 Claims. (Cl. 166—21)

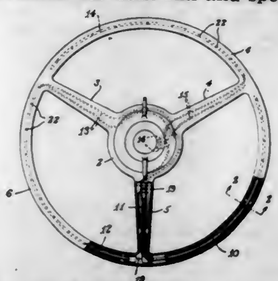


1. The method of making a petroleum well from a location in which a petroleum product and water exist by nature adjacent each other in a calcareous formation of the earth, which method includes drilling a hole into the formation to a sufficient extent to pass into both the petroleum-bearing and the water-bearing portions thereof, placing acid in the water-bearing portion of the formation while substantially sealing the petroleum-bearing portion of the formation from the acid, thereby opening up the water-bearing portion of the formation, injecting cement into the opened up portion of the formation, allowing the cement to harden and subsequently placing acid in the petroleum-bearing portion of the formation to open up the same, thereby enabling the petroleum to be produced comparatively free from water.

2,163,450
HEATED STEERING WHEEL
Louise B. Preble, Hingham, Mass.
Application February 12, 1938, Serial No. 190,239
1 Claim. (Cl. 219—19)

A heated steering wheel of the kind described formed in two sections, the top section compris-

ing a hand-holding rim with a circumferential channel rigidly united to the hub of the wheel by a plurality of channel-like spokes, and a lower covering section for both rim and spoke channel



sections, in combination with a plurality of electrical heating units removably secured in the said rim channel, together with current-conducting wires enclosed in the channels of said spokes.

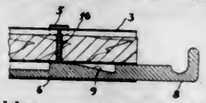
2,163,451

COPY HOLDER FOR PHOTOCOPY MACHINES

Edward R. Sabel, Rochester, N. Y., assignor to The Haloid Company, Rochester, N. Y., a corporation of New York

Application June 14, 1938, Serial No. 213,723

3 Claims. (Cl. 45—61)



1. A copyholder comprising a flat support having a plurality of parallel spaced recesses and a clamping plate pivotally arranged in each of said recesses and operable to mask and clamp the edge portions of a plurality of forms, a series of leaf springs secured to the support in spaced relation longitudinally of said plates with their free ends engaging the plates and acting to hold them in clamping position, a plurality of pins spaced longitudinally of said plates and located in vertical openings in the support beneath said clamping plates and engaging therewith to move said plates upwardly to releasing position, and longitudinally movable operating bars having cam surfaces engageable with the lower ends of said pins and acting when a bar is moved endwise to propel the pins upwardly and actuate the clamping plates to releasing position, the bar when released acting to hold its clamping plate in releasing position until the bar is retracted.

2,163,452

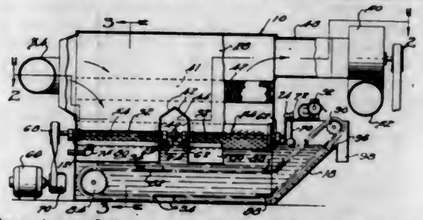
APPARATUS FOR REMOVING FOREIGN MATERIAL FROM AIR

John D. Schmieg, Detroit, Mich., assignor to Schmieg Sheet Metal Works, Detroit, Mich.

Application November 11, 1937, Serial No. 173,961

5 Claims. (Cl. 261—92)

1. Apparatus for removing foreign material from air laden with foreign material in suspension, comprising a housing including a receptacle containing a bath of liquid, an elongated rotatable member mounted within said housing longitudinally thereof with a portion of said member extending into said bath, said housing having an upstanding wall portion having an air inlet opening therethrough directed toward the longitudinal surface of said rotatable member with the upper edge of said inlet opening located below the top of said rotatable member, means forming a downwardly directed air inlet conduit adjacent said inlet opening so arranged that the air laden with foreign material in suspension is caused to abruptly change its direction of flow in passing into said housing through said inlet opening, means for rotating said rotatable member to create a moving mass of liquid and to throw the liquid to one side of said housing, and an



exhaust conduit communicating with said housing above said mass of liquid and above said inlet opening, and means for drawing air laden with foreign material in suspension downwardly through said inlet conduit, through said inlet opening, through said mass of liquid, and upwardly through said exhaust conduit to remove the foreign material from the air and thereafter exhaust the cleaned air.

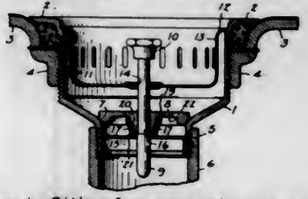
2,163,453

WASTE FITTING

Charles F. Schultis, Cleveland, Ohio, assignor to Globe Valve Corporation, Cleveland, Ohio, a corporation of Ohio

Application December 30, 1938, Serial No. 248,549

7 Claims. (Cl. 4—287)



1. A waste fitting for connecting the drain outlet of a sink or the like to a waste pipe comprising a tubular coupling member having an upper end portion adapted to be secured in the drain outlet, a lower end portion adapted to be connected to the waste pipe and an interior valve seat, a valve engageable with said seat and provided with upwardly and downwardly extending axial stem portions, guiding means coacting with said upwardly and downwardly extending valve stem portions for constraining the valve to axial and rotative movements, the lower guiding means comprising a member mounted in said coupling member below the valve seat and having an opening in which the downwardly extending valve stem portion may slide and rotate, and projections on the under side of the valve on said guide member which have face portions spaced laterally of the valve stem adapted to be brought into engagement by an axial and turning movement of the valve to retain the valve in open position, and to be disengaged by a turning movement of the valve to permit the valve to engage its seat.

2,163,454

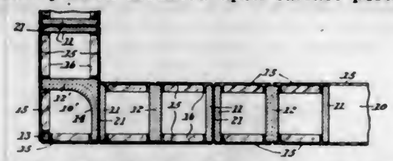
BUILDING WALL CONSTRUCTION

Edwin E. Slick, Pittsburgh, Pa.

Application August 17, 1937, Serial No. 159,454

20 Claims. (Cl. 72—41)

1. A building block having wall portions of a suitable load-carrying type of material, and a facing element of glass or similar material having a panel portion mounted upon surface portions



of a side of the block, said panel portion being located beyond confining load-carrying portions of the block.

2,163,455

RESILIENT SECURING DEVICE

John H. Van Uum, Lakewood, Ohio

Application December 5, 1934, Serial No. 756,127

1 Claim. (Cl. 24—213)



A fastener for securing an element having an opening to an apertured support comprising a single strip of spring wire having one portion, beginning at one terminus of the strip of wire, in the form of an open arcuate head portion yieldably engageable with the element, a portion of the strip contiguous to and at the end of the said head portion remote from the free end of the head portion extending radially of the head portion and spaced from the said free end of the head portion and terminating in spaced relation radially of the head portion from the center thereof, and a portion contiguous to the radially extending portion and extending abruptly from the plane of the head portion and being in the form of a substantially diamond shaped loop, said diamond shaped loop having a portion intermediate its ends in the form of a blunt rounded nose with legs divergent from the nose toward the head portion part-way of their length and convergent toward the head portion for the remainder of their length, the one of said convergent legs beyond the nose from the said radial portion of the wire being spaced for its full length from said arcuate head portion and remainder of the diamond shaped loop and terminating at the other terminus of said strip of wire and having its free end disposed in outwardly spaced relation radially of the head portion from the center thereof and inwardly spaced relation radially from the periphery thereof and being capable of bodily movement toward and away from the other leg, said diamond shaped loop being symmetrical with respect to the axis of the arcuate head portion and receivable in the opening in the member and in an aperture of said support by flexure of said diamond shaped loop, and said convergent leg portions being engageable with said aperture and opening upon reflexure of said loop.

2,163,456

GAME

Walter K. Youngberg, Meriden, Conn.

Application September 29, 1937, Serial No. 166,305

2 Claims. (Cl. 273—95)

1. In a game adapted to be played with a ball and paddles or the like for keeping the ball in play, a board engageable by a ball during play and disposable substantially in the plane of the feet of the players having an unobstructed plane playing area on its upper surface, means substantially in the plane of the upper board surface for dividing the latter transversely into a pair of plane service courts each extending



throughout the width of the board, and also having parallel marginal means along the full length of the opposite sides of the board toward the players disposed below the path of a normally served or returned ball for deflecting the ball out of play, said marginal means comprising low barriers projecting upwardly from said sides of the board.

2,163,457

ELECTRIC HEATING PLATE

Etienne Challet, Paris, France

Application October 28, 1937, Serial No. 171,574

In Switzerland January 13, 1937

3 Claims. (Cl. 219—37)



1. In an electric hot plate, a metallic supporting plate, a plurality of insulating members of substantially rectangular cross section supported by said plate and provided with recesses, a heating resistance lodged in said recesses and spaced from said plate, the bottom of said insulating members being dished to provide substantially line contact and insulating air space between said plate and said insulating members, said insulating members contacting said heating plate along two substantially parallel edges of said insulating members only.

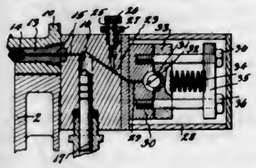
2,163,458

FUEL FEEDING AND DISTRIBUTING MECHANISM FOR INTERNAL COMBUSTION ENGINES

Wallace Clark, Indianapolis, Ind.

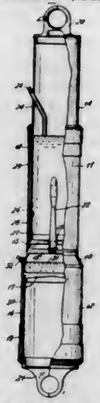
Application December 28, 1936, Serial No. 117,939

13 Claims. (Cl. 123—139)



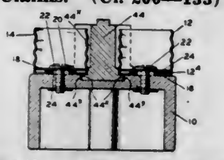
1. In an internal combustion engine of the class described including a plurality of working cylinders, individual high pressure solid fuel injection means for each cylinder, a single low pressure rotary distributing, metering and supply means for supplying metered quantities of fuel at a low pressure to said high pressure injection means, and individual fuel regulating means for each cylinder intermediate the low pressure distributing, metering and supply means and the high pressure injection means for individually regulating the quantity of fuel delivered by said distributing, metering and supply means to said individual high pressure injection means.

2,163,459
SHOCK ABSORBER
Ephraim W. Cleveland, Berea, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application December 10, 1936, Serial No. 115,167
5 Claims. (Cl. 267—64)



1. In a shock absorber for aircraft, an elongated casing, a fluid-tight partition therein dividing the casing into two chambers, a hydraulic unit in one of said chambers operating at substantially atmospheric pressure, said unit embodying a metering pin carried by the partition, a pneumatic unit in the other of said chambers operating at super-atmospheric pressure, each of said units comprising a piston, and means for attaching said pistons to the parts whose relative movements are to be cushioned, whereby shocks of landing are taken primarily in the hydraulic unit and severe shocks are taken by conjoint action of both units.

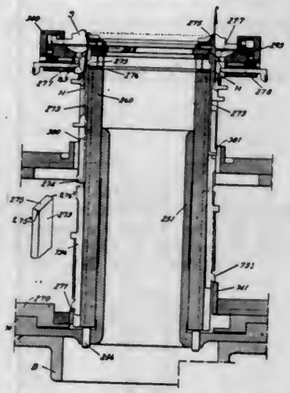
2,163,460
FUSE BLOCK
Magnus G. Dahl, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application June 15, 1935, Serial No. 26,818
7 Claims. (Cl. 200—133)



1. In combination, a base of insulating material, a pair of screw shell fuse receptacles, means to secure said receptacles on said base, said base having a well between said receptacles, a barrier formed separately from the base and seated in said well, said barrier having portions underlying said receptacles to retain said barrier irremovably in place.

2,163,461
CIRCULAR KNITTING MACHINE
Ivan W. Grothey, Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y., a corporation of Massachusetts
Application December 9, 1937, Serial No. 179,005
8 Claims. (Cl. 66—168)

1. In a circular knitting machine, a slotted needle cylinder, independent needles in said slots and jacks in said slots in back of the needles, the upper end of each jack being formed to provide a surface disposed in a plane extending at substantially a right angle to the length of the jack and with an outer edge contacting the inner face



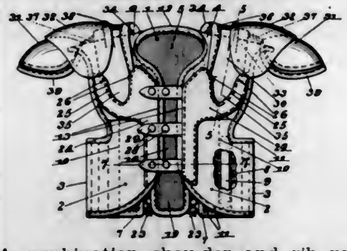
of the adjacent needle and an inner edge contacting the wall defining the bottom of the adjacent slot in the needle cylinder to prevent lint from above wedging behind the needles, in combination with means adapted to raise the jacks to lint-ejecting level periodically.

2,163,462
TORPEDO
John Raymond Holran, Chicago, and Edmund Townsend Lednum, Evanston, Ill.
Application March 19, 1937, Serial No. 131,928
2 Claims. (Cl. 102—4)



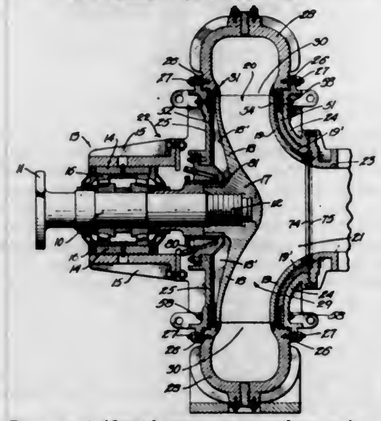
1. In a torpedo having a tubular casing, a column of flexible fabric receptacles in superposed relation in the casing, a plurality of vertically disposed cartridges of explosive in each of the receptacles, a fluid-proof and pressure-resistant metal container of substantially the same cross sectional dimensions as the receptacles positioned at each end of the column of receptacles and enclosing the said column between them, a plurality of explosive cartridges within each of the metal containers, a detonating device within each of the containers, and means for simultaneously discharging the detonating device.

2,163,463
PROTECTIVE GARMENT
Allen E. Kennedy, Utica, N. Y.
Application January 25, 1938, Serial No. 186,880
3 Claims. (Cl. 2—2)



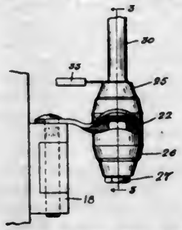
1. A combination shoulder and rib protector garment comprising a jacket which has shoulder portions, frontal portions depending from the shoulder portions, reinforced rib protector portions depending from said frontal portions and thereby being connected in combination with said shoulder portions, said rib protector portions curving around the sides of the jacket and having back terminals, and a back portion depending from the shoulder portions, terminating in a tail which is centered between and is coextensive with the terminals of the rib protector portions; means adjustably and loosely connecting said terminals to the side margins of the tail so that the chest-size of the garment can be changed, and fastening means from side to side of the frontal portions.

2,163,464
CENTRIFUGAL PUMP
Don Llewellyn, Huntington Park, Calif.
Application April 15, 1937, Serial No. 137,063
3 Claims. (Cl. 103—114)



1. In a centrifugal pump a circular casing having an axial inlet and a circumferential outlet chamber substantially circular in cross-section and being formed with an inner circumferential opening, a rotor within said casing having spaced side walls forming a passageway communicating axially with the axial inlet and radially with the circumferential opening, the side walls of the outlet chamber overhanging the circumferences of said rotor walls and annular shoulder liners carried by the casing and interposed between the overhanging shoulder of the walls of the outlet chamber and the circumferential faces of the rotor walls, said shoulder liners being made of rubber to resist abrasion.

2,163,465
ANTENNA
Arthur T. Mace, East Cleveland, Ohio, assignor to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 31, 1937, Serial No. 182,756
3 Claims. (Cl. 250—33)



1. In an aerial unit for mounting on a vehicle body in conformity with the body angle of a portion of said body, a supporting bracket with a curved face adapted to be mounted with the vertical plane of said curved face parallel to the longitudinal axis of said vehicle, a slot in said face parallel to the plane of curvature through the curved face, an aerial member and a lead-in therefor, an insulating member adapted to engage said aerial and said bracket and electrically separate them one from the other and a member adapted to secure said aerial in an adjusted position with respect to said bracket and to pass through said bracket slot.

2,163,466
PROCESS FOR THE EXTRACTION OF ALKALI HYDRATES OR CARBONATES AND OF ALUMINUM HYDROXIDE FROM THE DOUBLE SILICATES OF ALKALI AND ALUMINA
Remo Szyia Opatowski and Piero Adamoli, Milan, Italy
No Drawing. Application June 2, 1937, Serial No. 146,112. In Italy June 12, 1936
5 Claims. (Cl. 23—143)

5. A process for the extraction of potassium carbonate and aluminium hydroxide from leucite, comprising pulverizing the said leucite, adding thereto for each 100 parts by weight of leucite with a K_2O contents of 18% about 250 parts of limestone and 25 parts of fluorite, both finely pulverized, and intimately mixing said materials, calcining said materials in a kiln for one hour and thirty minutes at 930° C., extracting the calcined materials from the kiln, separating the potassium aluminate from the insoluble residue by lixiviating the calcined materials with hot water at atmospheric pressure, treating the potassium aluminate solution with carbon dioxide, separating the precipitated aluminium hydroxide from the mother liquor, and evaporating this latter to dry so as to obtain solid potassium carbonate.

2,163,467
METHOD AND APPARATUS FOR DETERMINING THE COLOR OF A LIQUID
Michael Philipsen, Vedbaek, near Copenhagen, Denmark
Application March 3, 1937, Serial No. 128,713
In Denmark January 28, 1935
13 Claims. (Cl. 88—14)

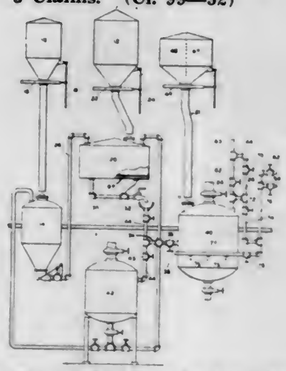


4. A device for use in the measurement of the color of an undiluted liquid comprising a trans-

parent base plate having a smooth and even upper surface, a transparent member adapted to be set on the upper surface of said base plate and having a cut-out portion in its lower side, said cut-out portion forming with the upper surface of said base plate a wedge-shaped chamber of capillary height and a transparent ledge member permanently secured to the upper surface of the base plate and serving as a support for one side of said transparent member.

12. A method of measuring the hemoglobin content of an undiluted blood sample comprising the steps of hemolysing the undiluted blood sample, placing said sample in a transparent container having an elongated chamber of uniformly varying capillary thickness, placing said container in close proximity to a fixed standard color glass, passing light rays through said standard glass and through said container, moving said container relatively to said color glass and in a longitudinal direction with respect to said chamber until a color match is obtained between the color of the standard and the color of the sample in said chamber by transmitted light, and determining the hemoglobin content of the blood sample at the matching point by measuring the thickness of the chamber at said matching point.

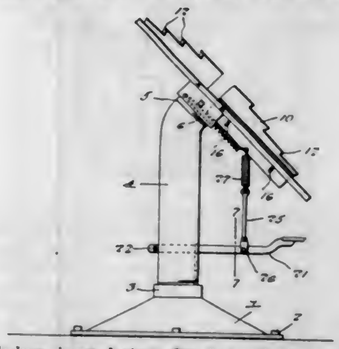
2,163,468
PROCESS FOR MAKING HOPPED BEER WORT
Carl Rach, New York, N. Y.
Application July 28, 1936, Serial No. 93,078
3 Claims. (Cl. 99—52)



1. In the process of making hopped beer wort, the steps of cooking wort with the components of hops added separately, the lupulin being cooked under a pressure of about 10 pounds at about boiling temperature, and the leaves being cooked at about 5 pounds pressure and about boiling temperature, said cooking to be done without substantial evaporation of water.

2,163,469
WHEEL SUPPORT
Frank J. Raschka, Minneapolis, Minn.
Application March 18, 1938, Serial No. 196,770
1 Claim. (Cl. 144—288)

A support for clampingly engaging the interior of the hub of an automobile wheel comprising a base, a column arising from said base, a head fixed on the upper end of said column in oblique position and including a hub part, and a series of bar-like arms radiating from the hub part in a common oblique plane, one of the arms being lowermost, blade-like jaws extending along said arms, respectively, and supported thereby in upstanding position and having upper edges stepped downwardly toward the outer ends of the jaws providing circularly arranged series of teeth of different heights in each series, the jaw on the lowermost arm being slidable thereon longitudinally and outwardly thereof and the



remaining jaws being fixed to their supporting arms, manipulative means for sliding said slidable jaw, comprising a foot pedal pivoted to and extending from said column and operatively connected to said slidable jaw, and spring means for tensioning said slidable jaw against movement outwardly.

2,163,470
FEED AND GUIDE ROLLER FOR CINEMATOGRAPH APPARATUS
Werner Scupin, Namslau, Silesia, Germany
Application November 23, 1937, Serial No. 176,119
In Germany May 31, 1935
1 Claim. (Cl. 74—215)

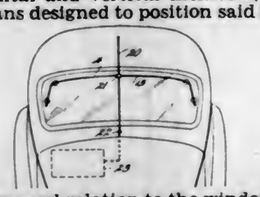


A feed and guide roller for cinematograph apparatus wherein the driving friction between the film and roller is produced by elastic material, said roller including a rigid portion having a circumferential recess and further including an annular elastic portion of larger diameter than the rigid portion and seated in said recess, the side walls of said recess being partly cut away to provide an annular space and sloping shoulder at each side of the elastic portion to receive and support a part of the latter when compressed by its contact with the film, the rigid portion providing the guiding and supporting surface for the film and determining the invariable effective diameter of the roller.

2,163,471
ANTENNA FOR MOTOR VEHICLES
Meadows Sharp, Saint Catharines, Ontario, Canada
Application March 15, 1938, Serial No. 196,057
In Canada April 19, 1937
1 Claim. (Cl. 250—33)

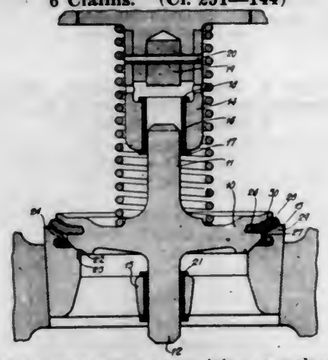
An antenna for use on a motor vehicle, said antenna comprising a generally horizontal member adapted to be positioned within the confines of the projected area of a window of said vehicle, a generally vertical member adapted to be insulatedly supported adjacent the bottom of said

window and electrically connected to said horizontal member at the point of intersection of said horizontal and vertical members, and supporting means designed to position said horizontal



member in spaced relation to the window and any metal surrounding the same, said supports engaging the glass at points spaced from the edges of said window.

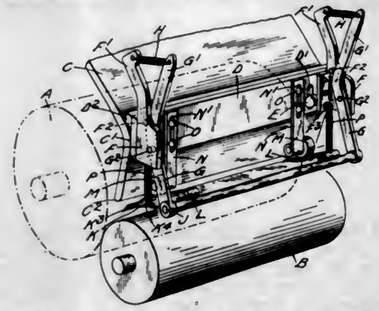
2,163,472
VALVE
John M. Shimer, Dallas, Tex., assignor to Oil Well Supply Company, Dallas, Tex., a corporation of New Jersey
Application July 7, 1936, Serial No. 89,378
6 Claims. (Cl. 251—144)



1. Valve apparatus comprising a valve having in part an inverted conical periphery, a valve seat having a surface to contact said periphery, a recess in said surface, a rubber ring in said recess and projecting into contact with the conical periphery of said valve, a recess in said valve above the level of said ring, and a disc of rubber in said valve recess and projecting outwardly to contact with said valve seat, said valve recess being stepped upwardly above the projecting part of said rubber disc to form a space therebetween.

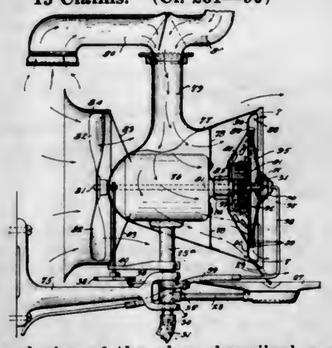
2,163,473
MACHINERY GUARD
Abram Simon, Northampton, England
Application December 15, 1937, Serial No. 180,011
In Great Britain December 31, 1936
5 Claims. (Cl. 74—612)

1. A guard for a machine having a feed surface over which material is fed by hand to a movable member adapted to act on the face of the material, comprising two parts extending transversely across feed surface and normally spaced therefrom, the space between the said feed surface and one part of the guard constituting a feed opening, a support forming a portion of the machine to which the same part of the said guard, constituting a guard member, is pivoted to allow movement in the direction in which the material is fed, the second part of said guard constituting a gate pivotally connected to the guard member and movable therewith when the guard member is moved in the direction in which the material is fed and also downwardly towards the said surface over which the material is fed,



and means operating on the gate to impart said downward movement when the guard member is moved.

2,163,474
HUMIDIFIER
William H. Sloan, Washington, D. C.
Application June 21, 1937, Serial No. 149,456
15 Claims. (Cl. 261—90)



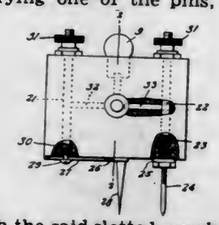
4. In a device of the class described, a casing having a discharge mouth, water atomizing means within said casing, water supply means therefor, means for creating an exterior current of air surrounding said discharge mouth, means for creating a balancing interior current of air for disseminating said atomized water, and means for supplying all the said second air from a separate source.

11. In a humidifier of the class described, a support, a centrifuge disk carried thereby, means for supplying water to the surface of said disk, rotary water disintegrating means arranged to move in a path around the periphery of said centrifuge disk for breaking the water projected from the periphery of the disk into water vapor, and means for rotating said disk and disintegrating means in opposite directions.

2,163,475
BLASTING DEVICE
Anthony J. Tomalis, Pittston, Pa.
Application December 4, 1935, Serial No. 52,907
1 Claim. (Cl. 175—183)

A switch structure for blasting circuits comprising a body having a pair of battery engageable contact pins protruding therefrom, a lamp on the body, a pair of binding posts on the body connected with the pins, a switch mounted on

the body, connections between the binding posts and opposite sides of the switch, a shunt around said switch and having the lamp therein, a slotted member carrying one of the pins, a screw dis-



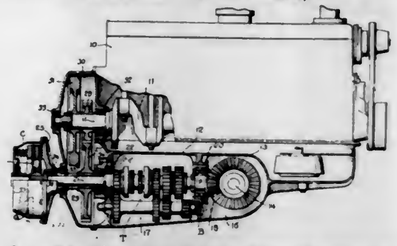
posed through the said slotted member and driven into one of the said binding posts, said screw having the said slotted member slidable thereon when the screw is unloosened with respect to its corresponding binding post.

2,163,476

POWER PLANT FOR MOTOR VEHICLES

Jesse G. Vincent, Grosse Pointe, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application November 19, 1936, Serial No. 111,745
4 Claims. (Cl. 74—326)



1. A power plant for motor vehicles comprising in combination, an engine having a generally horizontal crank shaft, a differential mechanism having a ring gear mounted for rotation approximately in the vertical plane of the crank shaft, said ring gear being below the crank shaft and intermediate the ends thereof, and means operatively connecting the differential mechanism and the engine crank shaft, said means including a transmission also located below the engine crank shaft, a clutch one element of which is connected to said transmission, and meshed gearing connecting the other element of the clutch to the engine crank shaft, whereby a compact power plant is provided.

2,163,477

FIRE EXTINGUISHER

Edward H. Warr, Benjamin Harry Stotter, and Frank C. Russell, Baltimore, Md.

Application December 1, 1937, Serial No. 177,580
4 Claims. (Cl. 169—33)

1. A dry powder fire extinguisher comprising a pair of elongated cylinders, a nozzle cooperating with the outer of said cylinders which forms a container for a quantity of fire extinguishing powder, the inner cylinder having a recessed inner end wall providing with the cylinder walls an open ended chamber, said recessed wall having an aperture providing communication between said chamber and inner cylinder, a piston slidably mounted in said inner cylinder, and an all rubber check valve carried by said recessed wall and cooperating therewith to normally close the aperture therein, said cylinders and chamber being arranged in normally vertical, concentric relation to each other whereby air may be forced by said piston through said valve controlled aperture and into said open ended chamber for expansion against the body of fire extinguishing powder normally disposed there beneath for the



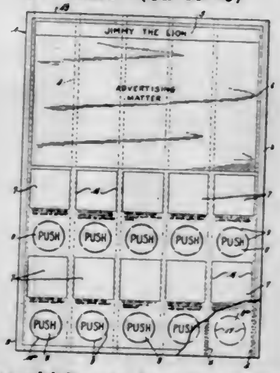
forceable discharge of said powder through said nozzle concentrically arranged with respect to said chamber.

2,163,478

GAME

Graff F. Wolfe, Minneapolis, Minn.

Application July 8, 1937, Serial No. 152,624
9 Claims. (Cl. 35—9)



1. A game which may be given away free for advertising purposes comprising, a card including a front layer and a back layer arranged in superimposed relation, said front layer having indicia in the form of a question upon an exposed side thereof; spaced bands of adhesive material detachably securing said layers together; a push-out section below said question and containing an answer to said question; and additional indicia related to said question arranged upon a concealed side of one of said layers between said bands of adhesive material and adapted to be revealed upon separation of said layers.

2,163,479

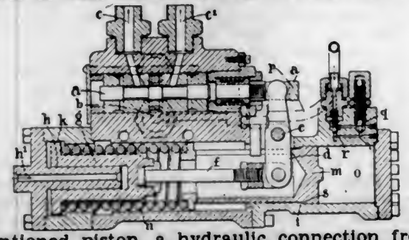
CONTROL MECHANISM FOR VARIABLE THROW HYDRAULIC PUMPS

William Henry Boddy, Feltham, England, assignor to Newton Brothers (Derby) Limited, Derby, England, a British company

Application May 28, 1938, Serial No. 210,727
In Great Britain June 1, 1937
3 Claims. (Cl. 103—38)

1. Mechanism for operating a variable throw control member for a variable throw hydraulic

pump, comprising a piston, a hydraulic connection from the delivery side of said pump to one side of said piston, a compression spring acting upon the other side of said piston, a further piston of larger area than said first mentioned piston constituting an abutment for the other end of said compression spring, means to limit the travel of said further piston towards the first



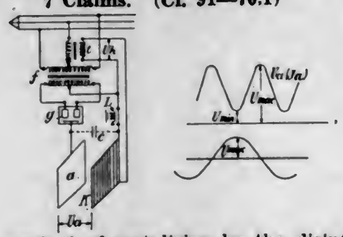
mentioned piston, a hydraulic connection from the delivery side of said pump to the side of said further piston remote from said compression spring, an adjustable constriction in said last mentioned connection, a by-pass duct around said constriction and a non-return valve to permit flow of fluid from said further piston to the said delivery side of said pump in said by-pass duct.

2,163,480

METALLIZATION BY CATHODE DISINTEGRATION

Wilhelm Burkhardt, Berlin-Grunewald, and Rudolf Reinecke, Berlin-Lankwitz, Germany, assignors to Bernhard Berghaus, Berlin-Lankwitz, Germany

Application February 18, 1937, Serial No. 126,504
In Germany February 21, 1936
7 Claims. (Cl. 91—70.1)



1. A method of metalizing by the disintegration of heated cathodes, consisting in effecting the heating and the disintegration of the cathode alternately by two separate currents alternately and repeatedly applied thereto, whereby the deflection of the charge carriers produced by the magnetic fields of the current heating the cathode is reduced.

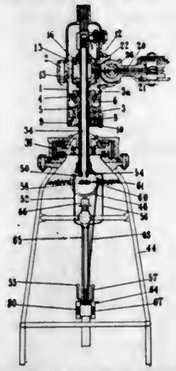
2,163,481

AIRCRAFT HAVING ROTATIVE SUSTAINING MEANS

Peter Cameron, Kelvinside, Glasgow, Scotland

Application December 24, 1936, Serial No. 117,626
In Great Britain January 1, 1936
10 Claims. (Cl. 244—17)

1. For aircraft of the type set forth, a hollow rotor head, blades carried by said head, a number of bevel wheels carried by and located within the head, through which bevel wheels the radial movement of the blades can be effected, a spindle extending downwardly through the head, two crown wheels carried by the spindle, means for supporting the head whereby it can partake of a limited tilting movement, a driving member carried in fixed bearing, a driven member through which the drive is transmitted from the driving member to the head, the driven member being capable of a limited universal tilting movement in conformity with the movement of the head



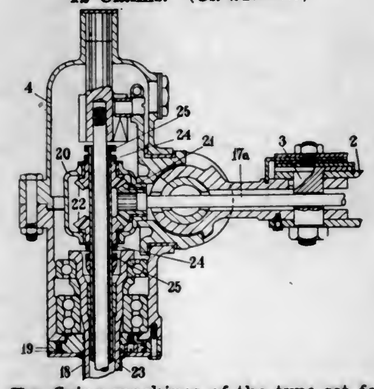
and relative to the driving member, means by which said spindle can be moved longitudinally to bring either of the two crown wheels into mesh with the bevel wheels, and means for preventing the rotation of said spindle and crown wheels carried thereby.

2,163,482

AIRCRAFT HAVING ROTATIVE SUSTAINING MEANS

Peter Cameron, Kelvinside, Glasgow, Scotland

Application December 24, 1936, Serial No. 117,627
In Great Britain January 1, 1936
12 Claims. (Cl. 244—17)



1. For flying machines of the type set forth a rotor head, hollow radially extending members secured to said head, outer hollow members telescopic on said radially extending members, rotor blades secured to said outer members, a screw threaded spindle extending through each inner hollow member, a nut threaded on said spindle, a hollow rod carried by said nut and resilient means connecting said hollow rod and said outer hollow member together.

2,163,483

FLOAT

Charles J. Carlisle, Coldwater, Mich.

Application July 7, 1938, Serial No. 217,998
3 Claims. (Cl. 43—49)

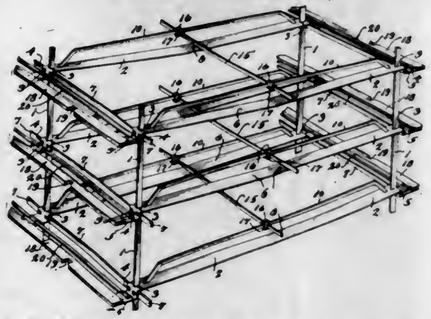
1. The combination with a float having a stem,

there being a line receiving slot in the stem having a side slot opening thereinto, of a coiled spring having a convolution at one end gripping the stem, said spring being normally expanded to



extend beyond both ends of the slot, the convolutions of the spring at the free end thereof constituting means for engaging a line in the slot and binding it against one end wall of said slot.

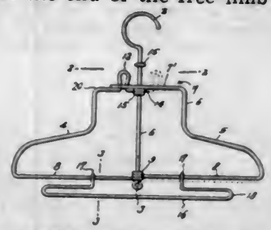
2,163,484
FILE STORAGE STRUCTURE
James W. Coombs, Chicago, Ill.
Original application October 22, 1935, Serial No. 46,154. Divided and this application October 27, 1937, Serial No. 171,315
9 Claims. (Cl. 211—71)



1. In filing equipment of the class described, a skeleton framework for storing a plurality of file containers comprising spaced standards between which file containers are adapted to be disposed, carrier rails for the containers interlocking with said standards, and truss means connected to said carrier rails at spaced points located adjacent said standards constituting guide and stop means for the containers.

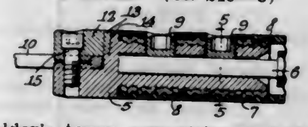
2,163,485
GARMENT HANGER
George W. Dear and Robert L. Thompson, Troup, Tex.
Application June 13, 1938, Serial No. 213,528
2 Claims. (Cl. 223—89)

1. A garment hanger of the class described comprising a vertically arranged suspension rod, a pair of sections each including upper and lower portions having eyes at their inner ends through which the rod passes, the upper part of one section having an upstanding part thereon adjacent the eye thereof and the upper part of the other section being extended beyond the rod and bent to form a horizontal U-shaped loop, with the eye of this upper part of the other section being formed at the end of the free limb of the loop,



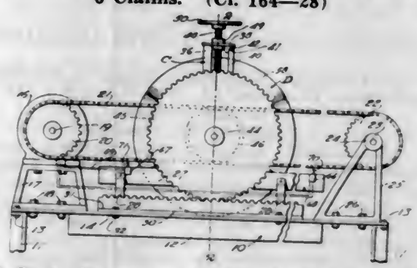
said loop receiving the upstanding part when the sections are unfolded, to hold the sections in unfolded position and said upstanding part being pressed under the upper part of the other section when the sections are folded, to hold said sections in folded position.

2,163,486
WELDER HANDLE
Walter De Long, Southgate, Calif.
Application March 30, 1937, Serial No. 133,896
1 Claim. (Cl. 219—8)



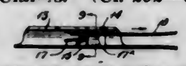
A welder's tongs comprising a body portion, one end of the body portion being cut away providing a curved wall and a clamping surface, said curved wall having a vertical groove, said clamping surface having a groove therein, a tong section embodying a length of spring metal bent intermediate its ends providing yieldable arms one end of the tong section being held within the groove of the clamping surface, a removable member positioned over the tong section held in said groove, a vertical rib on the removable member and positioned within the groove in the curved wall positioning the removable member on the body portion, clamping jaws at the free ends of the arm, and adapted to clamp an electrode, and a bolt extending through the removable member and into the body portion, securing the removable member in position.

2,163,487
TRAVELING ROTARY DIE
Morris Dorman, Baltimore, Md.
Application May 18, 1938, Serial No. 208,709
6 Claims. (Cl. 164—28)



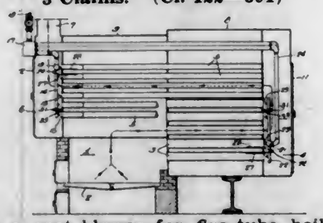
6. In a die cutter, a base, a pair of spaced parallel rack bars on the base, a pair of spaced parallel guide members, means anchored to the base for suspending said members above and inwardly adjacent to said rack bars, a carriage including trolleys supported by and slidably engaging said members, and also including a pair of normally closed combined supporting, confining, and guide means mounted on the tops of the trolleys, vertically slidable tensioned bearings removably mounted in said guide means, a driving structure including a prime mover and a pair of spaced parallel traveling endless power transmitting elements driven from said prime mover and between which is arranged said carriage, a shaft journaled in said bearings and provided with sprocket wheels driven from said elements and gear wheels engaging with said racks for bodily moving the shaft and carriage horizontally in unison, a die member arranged within the carriage and rotatably mounted on said shaft, ejecting means carried by said die member, and means for removing the scrap material cutout by the said die member.

2,163,488
SEAL
William M. Duncan, Jr., Shaker Heights, Ohio
Application March 28, 1938, Serial No. 198,360
2 Claims. (Cl. 292—317)



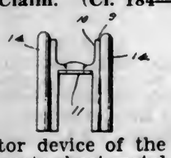
1. A seal of the character described comprising a strap having a locking end and a normally free end, the locking end having a bridge and a tongue projecting upwardly therefrom in the same direction from the plane of the strap with the tongue at the rear of the bridge and its free end extending rearwardly, the normally free end of the strap having an integral tongue projecting therefrom with its free extremity extending forwardly and toward the plane of the locking end, means forming an enclosure for the locking end and having an opening for the insertion of the normally free end, whereby when the normally free end is inserted into said enclosure it passes beneath the bridge, and when the normally free end passes the tongue on the locking end said tongues snap into such relative positions that when separating movement is applied the tongues interlock, and on the application of further separating force the tongue on the locking end will be bent up against the bridge by the tongue on the normally free end.

2,163,489
SOOT BLOWER
Eugene Hahn, Brooklyn, N. Y.
Application December 8, 1936, Serial No. 114,808
3 Claims. (Cl. 122—391)



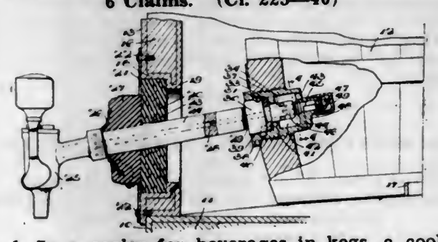
1. In a soot-blower for fire-tube boilers, the combination with a nozzle structure of means for mounting said structure on the tube sheet of said boiler in operative relation to said tubes, said means comprising a bracket arm adapted to enter one of said tubes and means for rigidly clamping said arm to the nozzle structure, a clamping bar adapted to enter an adjacent tube and to project from said tube toward the nozzle structure, a bolt for drawing said bar toward the arm, and a set screw threaded into the projecting end of said bar and arranged to bear against the arm, said bolt being positioned intermediate the said set screw and said tube sheet.

2,163,490
OIL BAFFLE
Andrew Clement Hess, Abilene, Kans.
Application March 14, 1936, Serial No. 68,947
1 Claim. (Cl. 184—1)



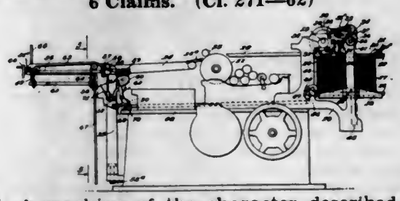
An oil deflector device of the class described including an arcuate sheet metal body having an elongated intermediate slot, ears struck outwardly from the ends thereof in co-planar relationship to one another, and flanges formed on the marginal edges of the body, said flanges being bowed upwardly and arcuate in cross-section.

2,163,491
COOLER
Clair S. Kauffman, York, Pa.
Application April 1, 1938, Serial No. 199,528
6 Claims. (Cl. 225—40)



1. In a cooler for beverages in kegs, a cooler casing, a door for said cooler casing, means for mounting a keg within said casing independently of said door whereby said door may be opened and closed without movement of the keg and tapping means carried by said door and so constructed and arranged as to engage the keg within the cooler when said door is shut to draw off the contents of the keg.

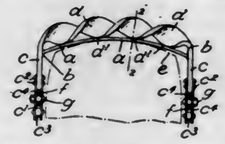
2,163,492
SHEET-HANDLING MACHINERY
William M. Kelly, Westfield, N. J.
Continuation of application Serial No. 152,721, July 9, 1937. This application December 21, 1938, Serial No. 247,113
6 Claims. (Cl. 271—62)



1. A machine of the character described, including in combination, a vertically movable feed

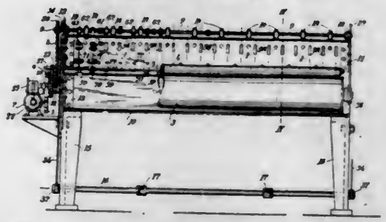
table disposed at one end of the machine, a delivery table at the other end thereof, said delivery table being mounted to move toward and from the last named end of the machine, means constituting a part of said movable delivery table for lowering said table, a driving means between said feed table and said delivery table disposed at an elevation below the path of the sheets through the press, and means for raising the feed table intermittently to compensate for the removal of worksheets therefrom, said driving means including a separable coupling for substantially synchronizing the relative raising and lowering movements of the feed and delivery tables.

2,163,493
NONSKID DEVICE
Donald Stuart Kennedy, Longparish, England
Application May 10, 1938, Serial No. 207,098
In Great Britain March 25, 1938
12 Claims. (Cl. 152—226)



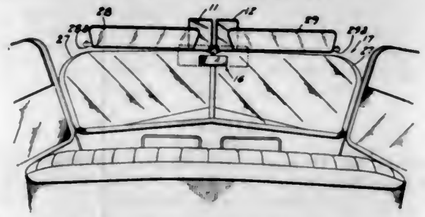
12. A non-skid device comprising a plurality of shoes, side chains for connecting said shoes around the wheel, said shoes including bars which extend transversely across the tire-tread and are twisted intermediately of their ends, and protective metal members rigidly secured to said bars in contact with the inner edges of the twisted portions of said bars, said protective members riding upon said tire tread.

2,163,494
MACHINE FOR MARKING LEATHER AND THE LIKE
Hans Erich Kleinschmidt, Berlin, Germany
Application January 14, 1937, Serial No. 120,625
In Germany January 15, 1936
26 Claims. (Cl. 101—43)



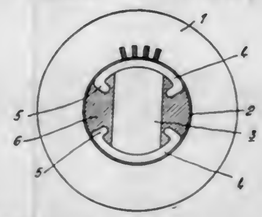
1. Machine for marking the distribution of thickness of sheet material, especially of large pieces of leather, comprising: a support for the reception of the sheet material, a plurality of devices for measuring the thickness of the material, each of said measuring devices having a feeler movable towards and away from said support, a plurality of printing devices each arranged in close proximity of one of the said measuring devices and comprising a type-carrier, a plurality of gearings operatively connecting said type-carriers to said drivers, means adapted to feed the material step by step, periodically working means adapted to actuate said printing devices in the pauses of feeding, each of said actuating means comprising a driver adapted to engage one of said feeders by the intermediary of driver spring means, a frame providing for a rigid connection between the combined measuring and printing devices and the said support and adapted to allow the material to pass by the measuring and printing devices with its whole surface to be marked, and means to adjustably limit the mutual distance of said feelers and drivers with respect to the action of said spring means.

2,163,495
SUN VISOR FOR AUTOMOBILES
Solomon M. Levy, Los Angeles, Calif., assignor of two-fifths to Leslie W. Bettis, Los Angeles, Calif.
Application September 19, 1938, Serial No. 230,528
9 Claims. (Cl. 296—97)



1. In a structure of the kind described, the combination, with a vehicle having a windshield mounted thereon and a rear vision mirror located in a rearwardly spaced relation to the central portion of said windshield; of a pair of plate-like visors, and means whereby said visors are mounted to swing in an edgewise manner between said mirror and said windshield from an upstanding position wherein adjacent edges of said visors are in a contiguous parallel position to a pendant position wherein their adjacent edges are in a like relation.

2,163,496
PERMANENT MAGNET DYNAMO-ELECTRIC MACHINE
Feodor Plötz, Berlin, Germany, assignor to Siemens Apparate' und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application October 15, 1937, Serial No. 169,260
In Germany October 26, 1936
2 Claims. (Cl. 171—209)



2. In a dynamo-electric machine, a permanent magnet having polar projections extending from the center thereof, individual soft-iron pole-shoes each abutting the face of one of said projections and in contact with said projection at said face only, protuberances at the extremities of said pole-shoes extending radially toward said center, and cast filling-material surrounding the sides of said polar projections and surrounding said protuberances whereby each of said pole-shoes is firmly held in properly aligned position in abutting relation with the respective face only of said projections.

2,163,497
COASTER BRAKE REPAIR DEVICE
Eugene Raines, Memphis, Tenn., assignor to Berry Cohen and Dave Bronstein, both of Atlanta, Ga.
Application December 22, 1937, Serial No. 181,237
3 Claims. (Cl. 192—6)

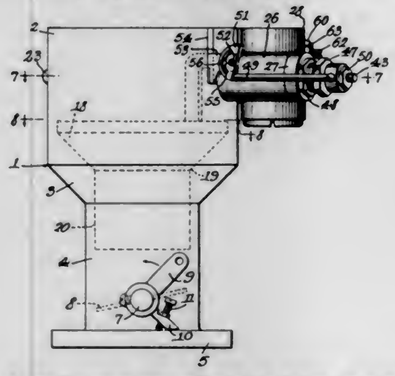


1. A repair device for restoring and preserving the usefulness of an impaired expansible brake shoe of a form corresponding to the segment of a circle, said device comprising a straplike holder of arcuate form for disposing within, extending towards and of materially less radius than the radius of the shoe, said holder being formed with end terminal portions, and oppositely disposed means connected to and extended laterally from the ends of said holder, said means coacting with said end terminal portions to provide grippers for aligned side portions of the shoe and abutments for the side edges of the shoe.

2,163,498
DETONATING COMPOSITIONS
Erich Scholz, Grotzingen, Germany, assignor to Deutsche Waffen- und Munitionsfabriken Aktiengesellschaft, Berlin-Charlottenburg, Germany, a joint-stock company of Germany
No Drawing. Application August 24, 1937, Serial No. 160,673. In Germany June 4, 1937
7 Claims. (Cl. 52—2)

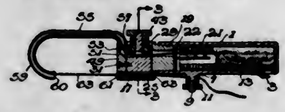
1. Priming compositions containing diazo-triazole carboxylic acid.

2,163,499
CARBURETOR
William Schwier, Detroit, Mich.
Application August 10, 1937, Serial No. 158,403
2 Claims. (Cl. 261—47)



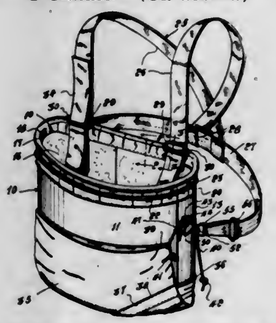
1. A carburetor comprising a body, a nozzle in the body, means for supplying fuel to the nozzle, a valve having limited sliding movement on the nozzle, a venturi slidable in the body, the venturi engaging the valve and the valve engaging the nozzle, to cut off the flow of air to the body, the venturi and the valve being movable together to open an air passage between the valve and the nozzle, the venturi being movable independently of the valve, after the valve has arrived at the limit of its movement, thereby to open another air passage between the venturi and the valve, a throttle valve in the air passage and an operative connection between the throttle valve and the venturi, securing operation of the venturi and the throttle valve in consonance.

2,163,500
DENTAL FLOSS ADJUSTER
Edwin E. Shepard, San Francisco, Calif.
Application December 18, 1937, Serial No. 180,650
8 Claims. (Cl. 132—92)



1. In a dental floss adjuster, a casing having a dental floss supply cartridge removably secured thereto, the cartridge in position thereon rigidly connected to the casing, said casing and said cartridge having openings therein for feeding a fresh strand from the interior of the cartridge to the interior of the casing, a curved strand feed channel through said casing to guide and change the direction of travel of the strand, and a used strand rectilinear channel extending through said casing spaced from said feed channel, and a fresh strand receiving tubular member having one end mounted in the casing to receive a strand from the casing feed channel and the other end open and spaced from the casing in a plane with the used strand channel to direct a strand toward said channel for travel therethrough, and means in the casing operable to press upon the strand in the feed channel to lock it against travel therethrough, and means on the cartridge for securing the used end of the strand after it has been pulled taut to present an exposed portion of strand extending between the casing and the open end of the tubular member.

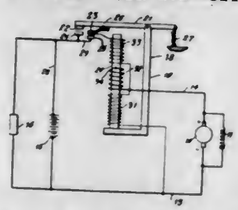
2,163,501
BUCKET
Paul J. Speicher and Levi O. Stark, Urbana, Ind., assignors to The Cyclone Seeder Co. Inc., Urbana, Ind.
Application August 15, 1938, Serial No. 225,042
4 Claims. (Cl. 150—2)



4. In a fruit picker's receptacle of that type including a hollow body open at each end for suspension from the shoulders of a user, a tubular flexible combined closure and outlet member

secured at its inner end to the lower end of said body, and a waist strap for connection to the sides of said body, the combination of a pair of upstanding attaching elements adapted to be secured intermediate their ends to opposite sides of said body and each being formed with an upper offset portion and a hook-like portion arranged below and rearwardly of the offset portion, cords adapted to be connected to the outer of said member for lifting the latter to position a portion thereof across the lower end of said body to form a bottom for the latter and the outer end terminal portion of said member in upstanding relation with respect to the front of said body, means adapted to be carried by the ends of the waist strap for engaging within said hook-like portions for coupling said strap to the sides of said body, and said cords having a part of their length wrapped about said offset portions for retaining said member in the positions aforesaid and another part of their length extending through said hook-like portions forwardly of said means for retaining the latter in said hook-like portions.

2,163,502
AUTOMATIC CUT-OUT DEVICE
Seymour Floyd Stewart, Cleveland, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1937, Serial No. 148,483
1 Claim. (Cl. 171—314)



In a system of the character described, a battery, a generator, a magnet frame having a core and an armature adapted to be vibrated in response to changes in the magnetization of the core and to be held when the magnetization increases to a predetermined value, a pair of main contacts adapted to be closed and opened by actuation of the armature, a pair of auxiliary contacts adapted to be closed and opened by the vibration of the armature with said auxiliary contacts closing in advance of the main contacts, a voltage coil on said core connected to be energized from the generator for causing closing of the pairs of contacts, a main coil on said core, a generator-battery circuit having said main coil and said main contacts in series therein, a second series coil on said core in parallel with the main series coil and controlled by said auxiliary contacts, said second series coil being wound to magnetically oppose the voltage coil when energized from the battery and to assist the voltage coil when energized from the generator.

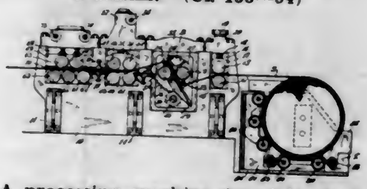
2,163,503
ARCHERY BOW AND SIGHT THEREFOR
John R. Tate, Whittier, Calif.
Application October 15, 1937, Serial No. 169,326
7 Claims. (Cl. 124—23)

1. The combination in an archery bow of a bow handle having bow limb receiving sockets, bow limbs removably inserted in said sockets, a bow string connected between the limbs and maintaining the limbs in their sockets against displacement, and a bow sight unit having a mounting base removably mounted in one of said



bow sockets and maintained against displacement by the bow limb in such socket.

2,163,504
PROCESSING MACHINE
Lloyd R. Thomas, Youngstown, Ohio, assignor to The Youngstown Foundry & Machine Company, Youngstown, Ohio, a corporation of Ohio
Application December 3, 1936, Serial No. 114,015
4 Claims. (Cl. 153—54)

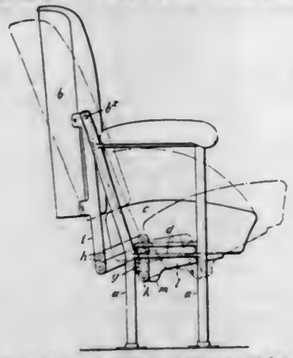


4. A processing machine for strip steel comprising a pair of rolls, a second pair of rolls spaced from the first mentioned pair of rolls, a member rotatably supported intermediate said pairs of rolls, a plurality of flexing rolls of relatively small diameter carried by said member, back-up rolls engaging said flexing rolls, means for moving said member about its axis of rotation, said first mentioned pair of rolls and said second mentioned pair of rolls being adapted to guide the strip to and from the flexing rolls and the flexing rolls being adapted to engage opposite sides of the strip and flex the same first in one direction and then in the other, means for pulling the strip over said flexing rolls, and means for exerting a drag on the strip.

2,163,505
CHAIR
George Thornton-Norris, London, England, assignor to The Scholl Manufacturing Company Limited, London, England
Application August 1, 1938, Serial No. 222,505
In Great Britain February 3, 1937
7 Claims. (Cl. 155—115)

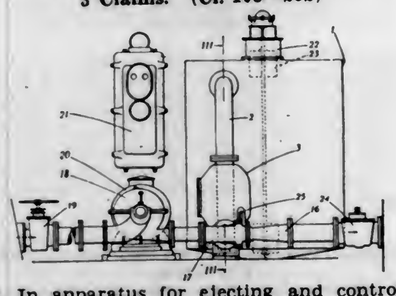
4. A chair of the tilting or tip-up seat type wherein the seat is also movable forward and backward and the back is tiltable backwardly and forwardly therewith, comprising in combination with the seat and back parts, supporting side standard or frame members, parallel supporting guides provided in opposite sides of said standard or frame members extending forwardly

and backwardly of the chair structure, vertically disposed swing members intermediately pivoted in rollers supportingly movable with slide effect within said guides, a pivot connection between the lower ends of said swing members and the rear end of the seat by which the seat is supported and rendered capable of forward and backward movement between the side standard or frame parts, a pivotal parallel link connection between the upper ends of said swing members and the



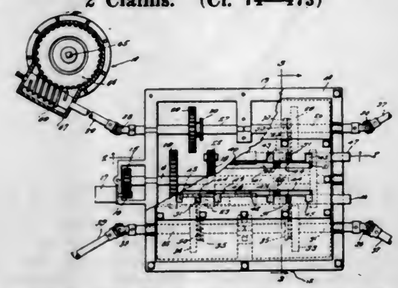
lower end of the back by which said back is rendered tiltable with forward and backward movement of the seat, the said back being also intermediately pivoted to the rear of said standard or frame members, and stops or abutments associated with the seat connection to said swing members whereby in opposite limits of slide movement thereof the same bear fulcrumly against opposite sides of said members to cause the seat to be raised or lowered at its front.

2,163,506
SHIP'S SEWAGE DISPOSAL APPARATUS
Joseph Francis Tucker, Petts Wood, England, assignor to J. Stone & Company, Limited, Deptford, England, a company of Great Britain
Application September 28, 1938, Serial No. 232,215
In Great Britain June 8, 1937
3 Claims. (Cl. 103—262)



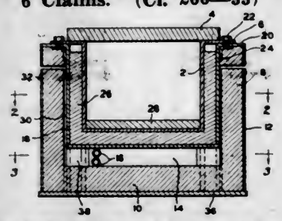
1. In apparatus for ejecting and controlling the ejection of ship's sewage under-water, an ejector having vacuum-generating means, a casing having a top liquid inlet and a bottom outlet, means for connecting said outlet with said ejector, a vertical annular cylindrical float body in said casing and enclosing an axial tubular chamber open at the bottom, a valve formation fitted to the top of said float body and adapted for operating as a closure for said inlet, a fixed vertical hollow guide stem having a sliding fit within and opening into said axial chamber, and vacuum-connecting means supporting said stem in said casing and adapted for arresting and seating said float body at the bottom of its descent and connecting the vacuum means of said ejector with the hollow guide stem.

2,163,507
CONTROL MEANS FOR TRANSMISSION MECHANISMS
William H. Wolchek, Walnut Grove, Mo.
Application January 19, 1937, Serial No. 121,343
2 Claims. (Cl. 74—473)



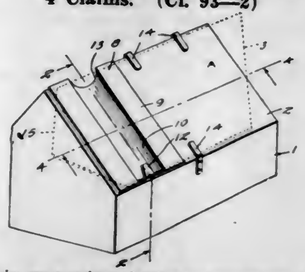
1. Control means for transmission mechanisms which includes a housing, comprising a rod having one end part slidably arranged in a wall of the housing, a tube having one end part slidably arranged in another wall part of the housing, the other end of the rod being slidably arranged in the other end of the tube, the rod and the tube being connected to different shiftable elements of the transmission gearing, a hand lever pivoted to the rod, a second hand lever pivoted to the tube, the top of the housing having an elongated slot therein through which the hand levers extend and one wall of the slot having two sets of notches therein, one for each hand lever, one notch acting to hold a hand lever in neutral position and the others acting to hold the hand lever with the gearing in operative position.

2,163,508
METHOD AND APPARATUS FOR THE MELTING OF METALS
Hugh E. Burke and Christopher J. Frey, Baltimore, and Reid B. Gray, Dundalk, Md., assignors to The Glenn L. Martin Company
Application September 10, 1938, Serial No. 229,310
6 Claims. (Cl. 266—33)



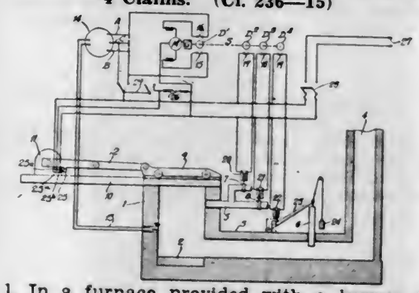
4. An apparatus for melting metal comprising a refractory casing, an outer pot located within said casing and forming therewith a heating chamber, the side walls of said pot engaging the casing through the greater portion of their area, an inner pot within said outer pot and having its bottom and side walls spaced from those of the outer pot, a metal having a lower melting point than the metal to be melted substantially filling the space between the inner and outer pots, and a layer of metal having a lower melting point than the metal to be melted on the bottom of the inner pot.

2,163,509
COIN WRAPPING DEVICE
Robert N. Bagley and Frank M. Ralston, Eureka, Calif.
Application March 12, 1938, Serial No. 195,611
4 Claims. (Cl. 93—2)



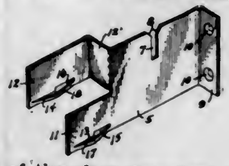
1. A coin wrapping device comprising an elongated body having a flat top surface inclined transversely of the length and adapted to support a coin wrapper, said surface having a cut-out area transversely thereof adjacent one end, a coin holding receptacle designed to position in said cut-out area and having a longitudinally extending upwardly opening coin receiving recess extending lengthwise of said area and means at one end of said coin receiving recess facilitating the crimping of an edge of a wrapper against an end of a stack of coins in said recess.

2,163,510
TEMPERATURE REGULATING MEANS FOR METALLURGICAL FURNACES
Robert H. Cantrell, Birmingham, Ala., and Lewis Rumford, 2d, Wilmington, Del.; said Rumford assignor to United States Steel Corporation, a corporation of New Jersey
Application June 18, 1936, Serial No. 85,976
4 Claims. (Cl. 236—15)



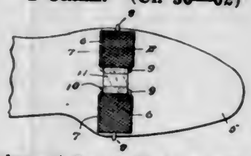
1. In a furnace provided with a burner for heating the same, a stack and damper means regulating the passage of heated gases from the furnace to the stack, means for regulating and controlling the temperatures of the said furnace, said means comprising a thermal sensitive device disposed to respond to thermal conditions in said furnace, a pyrometric recorder device electrically connected to said pyrometer to record the thermal condition thereof, said recorder being provided with adjustable upper and lower temperature limits and a switch arm movable in opposite directions thereby in accordance with the attaining of recorded temperatures corresponding with said limits, and means energized by the movement of said switch arm to shut off and turn on the fuel and air supply to the said burner and to open and close the said damper in a determined sequence at timed intervals, said sequence being to shut off fuel, shut off air and close damper at the upper limit and to open damper, turn on air and turn on fuel at the lower limit, a cover for said furnace and means operatively connecting the said first mentioned means with said cover to energize the said first means upon opening and closing the said cover, the opening of the cover operating to energize said first means identically as though the upper temperature limit had been attained by said recorder device and the closing of the cover operating to place said first means in position to operate with the attaining of the lower temperature limit by said recorder device.

2,163,511
BRACKET
Clemente Cardillo, Utica, N. Y.
Application May 5, 1938, Serial No. 206,252
1 Claim. (Cl. 248—255)



A bracket of the class described, comprising a flat body having an attaching flange extending laterally therefrom at one end, and having a pair of ears extended from the opposite end of the body in the direction of its length and disposed in different planes, said body also having a slot in its upper edge to receive a window shade pintle, and each of said ears being slit to form a laterally bendable part adapted to frictionally engage a curtain rod when the latter is applied onto the ear so as to be supported thereby.

2,163,512
ICE CREEPER
Ernest A. Castetter, Anderson, Ind.
Application August 26, 1938, Serial No. 227,009
1 Claim. (Cl. 36—62)

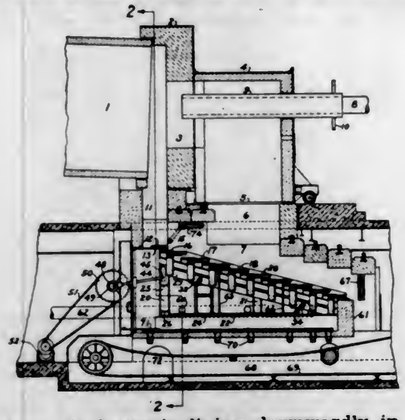


An attachment for a shoe having a sole, comprising a pair of members, each formed with a serrated outer tread surface, cleats at the outer ends of said members and engageable with the sole, split bails at the inner ends of said members, and an elastic band having separable connection with said bails and exerting tension on said members for holding the cleats engaged with the sole of the shoe.

2,163,513
PRODUCTION AND COOLING OF CEMENT CLINKER
Alfred E. Douglass, Catasauqua, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware
Original application December 1, 1937, Serial No. 177,634. Divided and this application July 8, 1938, Serial No. 218,228
12 Claims. (Cl. 263—53)

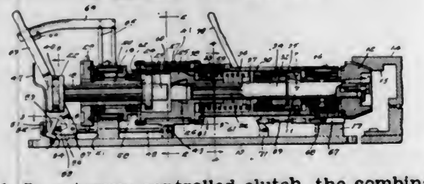
1. The method of abruptly chilling Portland cement clinker produced in a rotary kiln which comprises injecting a fuel stream surrounded by a stream of preheated secondary combustion air into the kiln and directing the streams to prevent them from impinging upon the clinker, causing combustion to take place in the vicinity

of the discharge end of the kiln, so that the clinker will be discharged in a partly molten state, discharging the clinker from the kiln out of contact with a substantial proportion of said stream of preheated secondary combustion air and forming the clinker as a bed of substantially



uniform thickness inclining downwardly in the direction of its movement, advancing the bed and continuously agitating the particles thereof, forcing air to penetrate and flow through the bed, and recovering and utilizing at least a part of said air as said stream of preheated secondary air.

2,163,514
TORQUE CONTROLLED CLUTCH
Pattie H. Farren, Walla Walla, Wash.
Application August 17, 1938, Serial No. 225,426
6 Claims. (Cl. 192—17)



1. In a torque controlled clutch, the combination of a drive shaft, a driven shaft, a jack shaft mounted for sliding and rotary movement intermediate and in alignment with the drive shaft and the driven shaft, a male clutch element carried by the drive shaft, a female clutch element within which the jack shaft slides toward and away from the male element to eject the latter and uncouple the coupling, a torque resisting spring exerting a pressure on the jack shaft in a direction away from the driven shaft, and a flexible coupling connecting the jack shaft to the driven shaft and adapted to feed the jack shaft against the tension of said spring to disconnect said coupling elements when the torque on the driven shaft overcomes the tension of said spring.

2,163,515
INTERCHANGEABLE LEAD PENCIL
Kurt Fend, Pforzheim, Germany
Application July 22, 1937, Serial No. 155,103
In Germany July 23, 1936
16 Claims. (Cl. 120—14)

15. A device of the character described comprising a casing, a plurality of lead carriers angularly carried thereby for independent movement into and out of an operative position at one end thereof, means for moving a selected lead carrier into and out of an operative position, means mounting said carrier moving means, said mounting means permitting free movement of

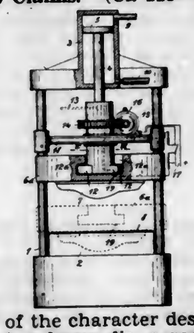


said carrier moving means relative thereto, and said carrier moving means being movable by gravity to a carrier feeding position relative to that carrier nearest the lowermost side wall of said casing when said pencil is held in any position other than substantially vertical.

2,163,516
ZINC SULPHIDE AS A CERAMIC OPACIFIER
Raymond William Hannagen, Cardiff, Wales
No Drawing. Application May 1, 1936, Serial No. 77,453. In Great Britain May 1, 1935
8 Claims. (Cl. 106—36.2)

1. The improvement in the production of glazes, enamels or the like which contain ordinary zinc sulphide as an opacifier, which consists in introducing zinc oxide into the glaze at some stage of its manufacture or application.

2,163,517
PRESS FOR THE FLAWLESS DEFORMING OF FLAT BLANKS
Ludwig Oeckl, Dessau, and Erhard Müller, Esslingen-Neckar, Germany, assignors to the firm Henschel Flugzeug-Werke A. G., Schonefeld, Teltow, Germany
Application February 4, 1938, Serial No. 188,802
In Germany April 14, 1936
9 Claims. (Cl. 113—38)



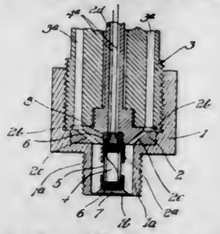
1. A press of the character described, comprising a support, a lower die, a rod movable vertically above said support, fluid-pressure actuated means for raising and lowering said rod, and for

applying downward pressure thereto when lowered, a heavy tool-holder for holding an upper die, means releasably coupling said tool-holder to said rod so that it may be raised and lowered therewith, and fluid-pressure actuated control means for releasing the coupling between said rod and said tool-holder whereby said tool-holder will drop freely, independently of said rod.

2,163,518
TELEMETRIC SYSTEM USING ELECTRICAL RESISTANCE

Frank Postlethwaite, Farnborough, England

Application September 9, 1936, Serial No. 99,998
In Great Britain September 11, 1935
5 Claims. (Cl. 177—351)

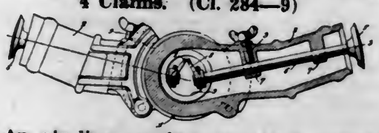


4. Apparatus for indicating variations in rapidly varying pressures, comprising a rigid molded carbon composition pressure-variable resistance element subject to the rapidly varying pressures, the resistivity of said resistance element being variable in response to and in accordance with such rapidly varying pressures, terminal contacts for said element substantially free of resistance variation with contact pressure, and an oscillograph electrically connected to said terminal contacts.

2,163,519
AUTOMATIC EMERGENCY TRAIN LINE AIR CONTROL

James W. Price, Charleston, S. C.

Application December 29, 1937, Serial No. 182,344
4 Claims. (Cl. 284—9)



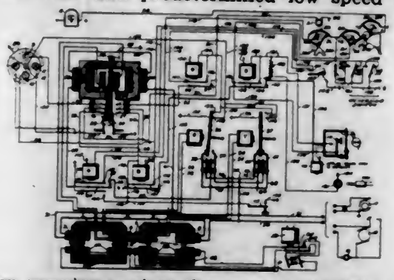
1. An air line coupler comprising companion sections detachably connected, valve seats formed in said sections, guides carried by said sections, valves supported by said guides to coact with the seats, means carried by each of said valves to contact the other valve on the sections being brought into coupled position for moving the valves into unseated position, and means whereby either of said valves may be secured in an unseated position while the other valve is free to engage its seat under pressure should the sections become detached.

2,163,520
RAILWAY SIGNAL DEVICE AND TRAIN CONTROL

Harry W. Richards, New York, N. Y.

Substitute for abandoned application Serial No. 455,903, May 26, 1930. This application March 16, 1937, Serial No. 131,218
9 Claims. (Cl. 246—63)

4. A train control system comprising, a permissive speed device normally setting up a maximum speed limit and when released setting up speed limits in predetermined arrangement including the maximum, minimum and all speeds therebetween when the train is running with the current of traffic, and means for changing automatically from the forward running speed limits set up by the permissive speed device to a different and predetermined low speed limit



when running against the current of traffic after the train has moved a certain predetermined distance in reverse; an actual speed device electrically connected in circuit with the permissive speed device; and means for applying the brakes of the train when the speed of the train exceeds the speed limit set up by said permissive speed device.

2,163,521
GARTER FASTENER

Elmer J. Schuhmacher, Waterloo, Iowa

Application May 15, 1936, Serial No. 79,967
3 Claims. (Cl. 24—243)



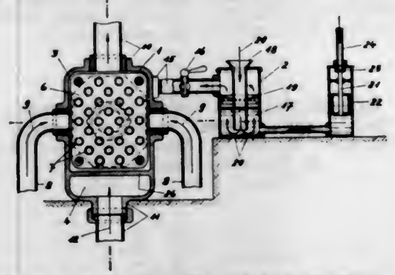
2. A garter fastening comprising a first grip part having an abutment, a second grip part having an end co-operating with said abutment for pinching a stocking, means for detachably connecting said parts, said end of the second grip part being held in pressure relation with said abutment when the two parts are fastened together, and means movably connecting said parts together, said second means being connected with the two parts in such a manner as to transfer the pull on the fastening to one of said parts when the two parts are connected together.

2,163,522
FUEL EVAPORATING DEVICE FOR INTERNAL COMBUSTION ENGINES

Robert Wehinger, Nofels-Feldkirch, Vorarlberg, Austria

Application March 24, 1937, Serial No. 132,880
In Austria March 28, 1936
7 Claims. (Cl. 123—122)

1. A fuel evaporating device comprising a unitary casing, partitions dividing said casing into an entering chamber, a heating chamber and a mixing chamber, respectively, and means to cause hot exhaust gases to flow into the heating chamber in a counter current approximately perpendicular to the direction of flow of fuel from the

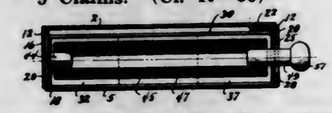


entering chamber to the mixing chamber, said partitions including a hot plate lying normal to the inflow direction of the fuel against which the fuel impinges before passing from the entering chamber to the mixing chamber.

2,163,523
DISPLAY DEVICE

Everett Whitmyre, Syracuse, N. Y., assignor to Roll-A-Book Publishers, Inc., Syracuse, N. Y., a corporation of New York

Application November 2, 1938, Serial No. 238,480
5 Claims. (Cl. 40—86)

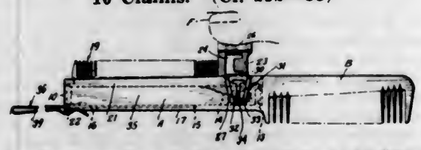


1. A device of the class described, comprising a casing of box-like form having an opening in one face thereof, a frame insertable in and removable from said casing, a pair of hollow rolls rotatably mounted in said frame, a flexible strip or web carried by said rolls and arranged across the opening in the casing and adapted to be wound from one roll to the other, and means operable from the exterior of said casing for rotating said rolls, said last named means comprising a spindle for each roll rotatably supported by the frame and having one end projecting into the end of its roll and its other end extended through a side wall of the casing and terminating in an operating instrumentality.

2,163,524
HAIR CURLING DEVICE

Leonard George Arpin, Jackson Heights, N. Y.

Application December 30, 1938, Serial No. 248,414
10 Claims. (Cl. 132—35)

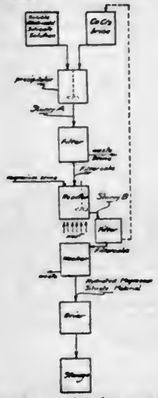


1. A hair curling device comprising a body portion having an elongated slot, a comb member slidable in said slot a manipulating member having a C-shaped slot formed therein integral with said comb member and a substantially U-shaped locking member straddling said body portion and cooperating with said C-shaped slot to lock said comb member in the operative or inoperative positions and to prevent displacement of said comb member from said elongated slot.

2,163,525
METHOD OF PREPARING A DECOLORIZING MATERIAL

Lyle Caldwell, Los Angeles, Calif.

Application February 11, 1936, Serial No. 63,376
8 Claims. (Cl. 252—2)



1. The method of producing a hydrated magnesium silicate decolorizing material, which comprises: causing the formation of a precipitated hydrated calcium silicate by reaction in aqueous phase of a water-soluble silicate with a calcium salt which will react with the water-soluble silicate, in the presence of water, to cause precipitation of hydrated calcium silicate, and converting a substantial part of said calcium silicate into a hydrated magnesium silicate by hydrothermal base-exchange reaction thereof with a soluble magnesium salt of a strong acid, to form a decolorizing material of which a substantial proportion consists of hydrated magnesium silicate produced by such reaction.

2,163,526
METHOD OF PREPARING A SYNTHETIC DECOLORIZING COMPOSITION

Lyle Caldwell, Los Angeles, Calif.

No Drawing. Application October 13, 1937, Serial No. 168,749
4 Claims. (Cl. 252—2)

1. The method of preparing a bleaching material which comprises: preparing a molten mix comprising a calcium-containing silicate; forming a slag wool from the molten calcium-containing silicate by blowing with a gaseous fluid, and subjecting said slag wool to reaction with an aqueous solution of a soluble magnesium salt of a strong acid under conditions of agitation to cause formation of a solid hydrated magnesium silicate and a calcium salt of said strong acid by hydrothermal reaction of said calcium-containing silicate with said soluble magnesium salt, and to produce a solid bleaching material containing a substantial proportion of said hydrated magnesium silicate, and separating said bleaching material from the remaining aqueous liquid.

2,163,527
METHOD OF PREPARING A DECOLORIZING MATERIAL AND OF DECOLORIZING LIQUIDS THEREWITH

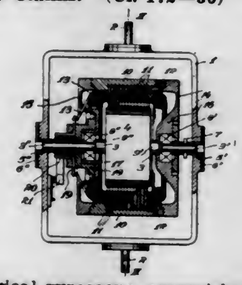
Lyle Caldwell, Los Angeles, Calif.

No Drawing. Application July 22, 1938, Serial No. 220,801
13 Claims. (Cl. 252—2)

1. The method of making a decolorizing mate-

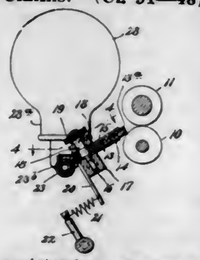
rial which comprises: forming a mixture of finely divided material containing a substantial proportion of calcium silicate, and an aqueous solution of a soluble magnesium salt of a strong acid; heating said mixture and simultaneously agitating it sufficiently to maintain the solids in suspension to cause formation of a solid hydrated magnesium silicate and a calcium salt of said strong acid by hydrothermal reaction of said calcium silicate with said magnesium salt, and to produce a solid decolorizing material containing a substantial proportion of said hydrated magnesium silicate; and separating said decolorizing material from the remaining aqueous liquid.

2,163,528
DIRECT CURRENT MOTOR
Friedrich Lauck, Berlin-Spandau, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application March 16, 1937, Serial No. 131,267
In Germany March 16, 1936
6 Claims. (Cl. 172—36)



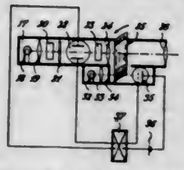
1. An electrical gyroscope, comprising a frame, means mounting said frame for rotation thereof, a shaft mounted in said frame at right angles to said mounting means, means fastening said shaft to said frame at one end thereof, means mounted on said frame providing a sliding support for said shaft at the other end thereof, a permanent magnet fixedly mounted on said shaft, and a rotor mounted for rotation on said shaft, said rotor being so constructed as to serve as both an armature and a flywheel mass for said gyroscope.

2,163,529
SHEET-MOISTENING DEVICE
Frederick W. Storck, Arlington, Mass., assignor to Standard Mailing Machines Company, Everett, Mass., a corporation of Massachusetts
Application January 7, 1937, Serial No. 119,461
6 Claims. (Cl. 91—48)



1. A sheet moistening device embodying a moisture applicator with means for supplying moisture to said applicator, said means including a fluid conduit with means for maintaining a maximum supply of fluid in said conduit, said fluid conduit having a capillary opening, above its horizontal axis, a super-imposed bibulous material above said conduit and in engagement with said capillary opening and said applicator and whereby the capillary action of said material withdraws moisture through said opening.

2,163,530
COLOR MOTION PICTURE SYSTEM
Romeo Fritz Thieme, Leipzig, Germany
Application March 27, 1936, Serial No. 71,271
In Germany April 3, 1935
5 Claims. (Cl. 88—16.4)



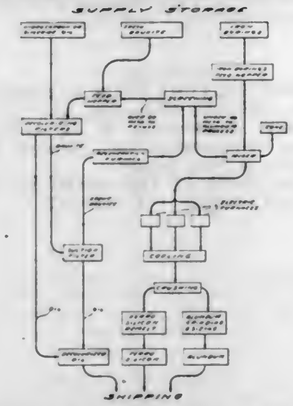
1. In a color motion picture system a color decomposing and recomposing device comprising a polarizer, a plane-parallel chromatically active medium for rotating the planes of polarization of polarized rays of various wavelengths in different degrees and in proportions depending on the thickness of said medium, a light controlling cell for electrical control of the rotation of the planes of polarization of said polarized rays, for predeterminedly rotating the plane of polarization by electrical impulses, means to apply electrical impulses to said cell, an analyzer for selecting color component rays of light passed by the cell, means for supporting a film to receive the selected rays, an electrical light unit cooperating with a record tract of the film, and electrical connections, between the light unit and said means for applying electrical impulses to said cell.

2,163,531
METHOD OF MAKING ROTOR BLADES FOR STEAM OR GAS TURBINES
Fritz Alexander Wettstein, Stockholm, Sweden, assignor to Aktiebolaget Spontan, Stockholm, Sweden, a corporation of Sweden
Application April 24, 1935, Serial No. 18,053
In Germany May 3, 1934
13 Claims. (Cl. 29—156.8)



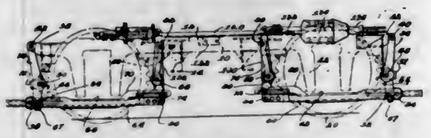
1. A method of making an arched turbine rotor blade of varying thickness out of a plate of sheet metal of uniform thickness including the steps of bringing the plate into contact with and securing it to a supporting surface, spacing certain portions of said plate from said supporting surface by amounts corresponding to the decrease in plate thickness which it is desired to effect in said portions, whereby the outer surface of said plate in said portions projects beyond that of the remainder of said plate which is in direct contact with the supporting surface, removing sufficient metal from said projecting portions to render the outer surface of said plate parallel to the supporting surface, and then imparting the desired arched configuration to said plate to complete the blade.

2,163,532
MANUFACTURE OF ABRASIVE ALUMINA
Blakeslee Barnes, New York, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application September 22, 1937, Serial No. 165,045
10 Claims. (Cl. 23—142)



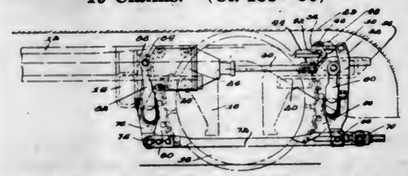
3. A method of preparing abrasive alumina which comprises impregnating bauxite with a liquid carbonaceous material, calcining to form a finely divided reducing agent within the pores of the bauxite, mixing the calcined material with a flux, and fusing the mixture.

2,163,533
BRAKE ARRANGEMENT
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 27, 1937, Serial No. 133,466
8 Claims. (Cl. 188—56)



1. In a brake arrangement, the combination of a truck frame, spaced wheels supporting said truck frame, brakes for said wheels, said brakes including a dead brake lever at each end of said truck frame, a live brake lever on the opposite side of each wheel from the dead brake lever, a connection between pairs of live and dead brake levers below the wheel centers, a slack adjuster supported on said truck frame adjacent one of said wheels, a dead auxiliary lever pivoted to said slack adjuster intermediate the ends thereof and adjacent the inner end to the adjacent live brake lever, a live auxiliary lever pivoted adjacent the inner end thereof to the other of said live brake levers, a connection between the outer ends of said live and dead auxiliary levers, an operating cylinder supported on said truck frame, a dead cylinder lever pivoted adjacent one end thereof to said truck frame adjacent an end of said truck frame, a connection between the piston of said cylinder and the other end of said cylinder lever, and a connection between said live auxiliary lever and said cylinder lever intermediate the ends of said levers.

2,163,534
BRAKE ARRANGEMENT
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 27, 1937, Serial No. 133,467
19 Claims. (Cl. 188—56)



1. In a brake arrangement, the combination of a truck frame, brake mechanism for said wheel comprising a wheel disposed in supporting relation to said frame, a brake cylinder supported on said truck frame, a dead cylinder lever pivoted to said truck frame, said cylinder having a piston pivoted to said cylinder lever, a live truck lever pivoted to said cylinder lever, a dead truck lever pivoted to said frame on the opposite side of said wheel from said live truck lever, and a connection between said dead and live truck levers, said brake mechanism being disposed substantially below the top of said frame.

2,163,535
THIOCARBONATED - CHLORALIPHATIC HYDROCARBONS AND METHOD OF MAKING SAME
Henry G. Berger, Woodbury, Robert C. Moran, Wenonah, and Francis M. Seger, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 21, 1938, Serial No. 246,996
17 Claims. (Cl. 260—455)

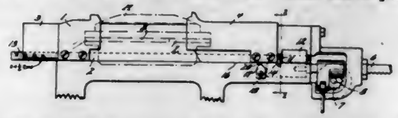
1. As a new composition of matter, the reaction product obtained by chemically substituting a part only of the chlorine in a chlorinated aliphatic hydrocarbon with a thiocarbonate group.

13. The method of preparing a product adapted for use in extreme pressure lubricants and the like which comprises: chlorinating petroleum naphtha to a chlorine content of from about forty per cent to about sixty per cent by weight; dissolving said chlorinated naphtha in a solvent wherein alkali chlorides have low solubility; admixing with the solution thus formed a quantity of alkali alkyl thiocarbonate corresponding to from about forty per cent to about seventy per cent of the weight of chlorinated naphtha therein; boiling the reaction mixture under reflux to form a substitution product containing both chlorine and the alkyl thiocarbonate group in chemical combination with the naphtha; and separating alkali chloride from said substitution product.

2,163,536
VISE FOR TYPOGRAPHICAL MACHINES
Lynn W. Bieber, Audubon, N. J., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application August 18, 1938, Serial No. 225,620
15 Claims. (Cl. 199—50)

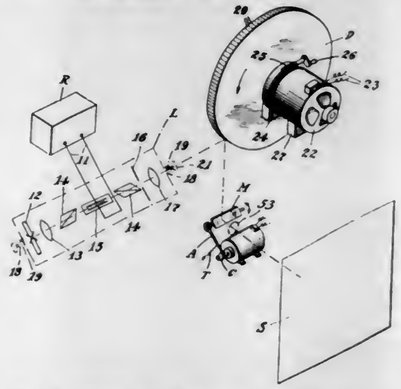
1. In a typographical slug casting machine having a movable vise jaw and an adjustable stop for setting said jaw in different line measure positions, an auxiliary stop member movable into a position for cooperation with said adjustable stop to alter the line measure setting at such

position of the jaw and means operative automatically to move said member into such posi-



tion upon adjustment of said stop and said jaw to a predetermined line measure setting.

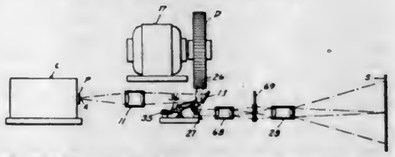
2,163,537
TELEVISION METHOD AND APPARATUS
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application November 18, 1935, Serial No. 50,316
10 Claims. (Cl. 178—7.6)



5. In a television scanning mechanism, an oscillatory scanning element, a cam, an arm extending from said cam to said element, a cam follower on said arm, and means for adjusting the position of said follower on said arm to adjust the amplitude of oscillation of said element independently of said cam.

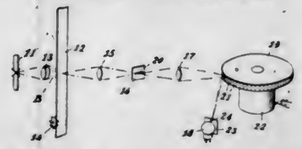
6. In a method of television, the steps of forming an image of an illuminated aperture in space, forming an image of the image in space on a screen, and moving the image on the screen to effect scanning.

2,163,538
TELEVISION APPARATUS
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application July 17, 1937, Serial No. 154,218
4 Claims. (Cl. 178—7.6)



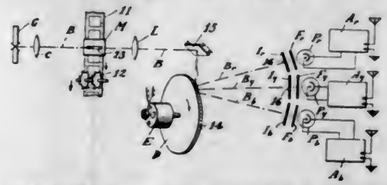
3. A mechanical television scanning apparatus comprising a light source; means for projecting light from said source as a luminous spot; means for varying the intensity of said luminous spot in accordance with the television impulses; scanning means for acting successively upon said spot in mutually perpendicular directions; a screen; means for forming an image of said spot between said scanning means and said screen; a translucent sheet located in the plane of said image, and means between said translucent sheet and said screen for projecting an enlarged image of said image upon said screen.

2,163,539
MOTION PICTURE FILM SCANNING
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application March 15, 1938, Serial No. 195,938
10 Claims. (Cl. 178—6.7)



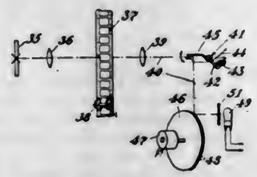
1. A method of recording television signals upon a sensitized film, comprising concentrating light from a source into an illuminated spot; modulating said spot in accordance with the television signals; forming an image of said spot in space; sweeping the image of said modulated spot successively in a linear path substantially in the plane of said image; defining the configuration of said path as an elemental scanning line; and projecting an image of said scanning line progressively upon successive portions of a sensitized film.

2,163,540
METHOD OF AND APPARATUS FOR TELEVISION SCANNING
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application May 28, 1936, Serial No. 82,326
12 Claims. (Cl. 178—5.2)



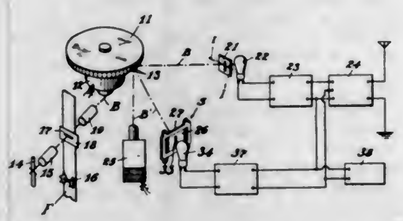
1. In a television scanning apparatus, an optical system gathering light from a televised subject and concentrating the light into a beam forming an image of the subject in a desired plane, line scanning means interposed in the light path intermediate the optical system and image plane dividing the light beam into a plurality of beams each producing an image in a plane equally distant from said line scanning means, means in the image planes selecting identical elemental areas of the several images, means individually and simultaneously converting the light impulses of said elemental areas into electrical impulses, and means whereby the images in the image plane are moved in a direction substantially normal to the motion of the images produced by the aforesaid scanning means.

2,163,541
METHOD OF AND APPARATUS FOR INTERLACED SCANNING
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application May 9, 1936, Serial No. 78,904
9 Claims. (Cl. 178—7.6)



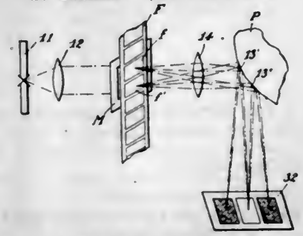
3. The method of interlaced scanning of motion picture film comprising projecting a beam of light from a source through the film to be scanned and onto a reflecting surface, moving the film longitudinally in one direction at a continuous speed, moving the reflecting surface angularly in a direction opposite to that of the film movement about an axis positioned generally parallel to the film, adjusting the rate of movement of the reflecting surface in relation to the rate of movement of the film so as to produce double frame scanning, linearly scanning the beam reflected from the surface, and adjusting the rate of movement of the linear scanner so that an odd number of lines are formed during the time interval in which the film moves a distance of one frame of the film.

2,163,542
SYNCHRONIZING METHOD AND APPARATUS
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application September 27, 1937, Serial No. 165,794
4 Claims. (Cl. 178—7.1)



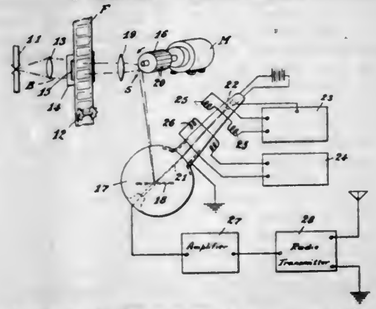
1. A synchronous signal generator for use in television systems comprising the combination with a scanning drum having a plurality of reflecting surfaces about its periphery, of a substantially constant-intensity light source; means for directing a light beam from said source upon the periphery of said drum; a synchronizing photocell in the path of the light beam reflected from said surfaces; an aperture plate positioned between said photocell and the periphery of said drum; and framing mechanism comprising means for adjusting the position of said plate in a direction substantially circumferentially with respect to said drum.

2,163,543
METHOD OF AND APPARATUS FOR SCANNING MOTION PICTURE FILM
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application July 17, 1937, Serial No. 154,216
17 Claims. (Cl. 178—7.6)



3. In a method of scanning continuously moving motion picture film, the steps comprising simultaneously forming stationary images of each of at least two successive frames of the film being scanned; coincidently superimposing said images upon a screen, and scanning said images to produce electrical impulses.

2,163,544
FILM SCANNING APPARATUS AND METHOD
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application July 17, 1937, Serial No. 154,217
5 Claims. (Cl. 178—7.2)

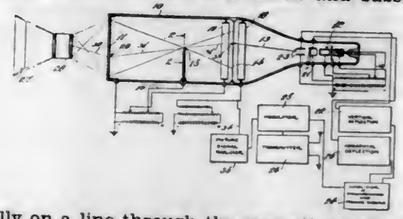


1. Apparatus for scanning continuously moving motion picture film comprising means for forming stationary and coincidently superimposed images of at least two succeeding frames of the film to be scanned upon the photo-sensitive mosaic screen of a cathode ray translating tube. and means for periodically sweeping an electron ray over successive areas of said screen.

2,163,545
APPARATUS AND METHOD FOR TELEVISION TRANSMISSION
Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application August 31, 1937, Serial No. 161,730
7 Claims. (Cl. 178—7.2)

2. In apparatus for television transmission, a photosensitive screen, a second screen, a single ring anode of minimum surface area with an

aperture of elemental size compared to the respective areas of said screen, said anode being disposed intermediate said screen and substan-



tially on a line through the respective centers of said screens, and means including a cathode ray gun structure for scanning said second screen to develop picture signals.

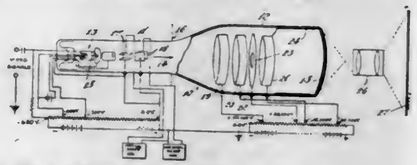
2,163,546

APPARATUS AND METHOD FOR TELEVISION RECEPTION

Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey

Application October 8, 1937, Serial No. 167,912

7 Claims. (Cl. 250—162)



1. In a television receiving tube, a low voltage section and a high voltage section, the latter including a viewing screen of fluorescent material at the inside end wall of the tube and optically unobstructed from the tube exterior, means including an electron gun within the low voltage section developing from received electrical impulses representing picture signals and at low velocity toward the low voltage section an electron image of the view being televised, said electron image being in advance of the screen and apertured electrostatic electron lens electrode means between said electron image and the fluorescent screen for increasing the velocity of the electron beam and inverting and refocusing the electron image at substantially the same size on the fluorescent screen, said apertured means passing only an electron beam of elemental size.

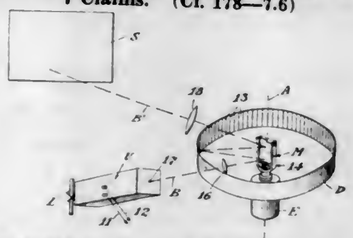
2,163,547

TELEVISION SCANNING SYSTEM

Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey

Application July 2, 1936, Serial No. 88,576

7 Claims. (Cl. 178—7.6)



1. In television scanning apparatus comprising a screen, a source of modulated light, a stationary mirror drum, and a plurality of reflecting surfaces about the inner periphery of said drum, all of said surfaces being arranged in identical angular relation to the axis of said drum; a television scanning element comprising a rotatable mirror positioned so as to direct a beam of light from said source on to said reflecting surfaces and so as to direct the beam reflected from said surfaces on to said screen, means for rotating said mirror, and means for oscillating said mirror transversely of its axis of rotation.

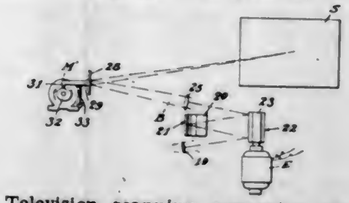
2,163,548

SYSTEM FOR TELEVISION SCANNING

Stewart L. Clothier, Irvington, and Harold C. Hogencamp, Maplewood, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey

Application July 16, 1936, Serial No. 90,994

7 Claims. (Cl. 178—7.6)



1. Television scanning apparatus comprising the combination with a beam of modulated light, of a line scanner, and a frame scanner; said line scanner including a stationary circular drum segment having reflecting surfaces about its inner periphery, and a rotatable mirrored prism coaxial with said segment; said frame scanner comprising a reflecting surface movable about an axis spaced from and substantially perpendicular to the axis of said segment and means for oscillating said reflecting surface about its axis.

2,163,549

LIGHT MODULATING CELL AND ELECTRODE THEREFOR

Stewart L. Clothier, East Orange, and Harold C. Hogencamp, Irvington, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey

Application October 15, 1936, Serial No. 105,648

2 Claims. (Cl. 88—61)



1. In a light modulating cell of the Kerr type in combination, a tubular flat sided electrode of regular polygonal cross section, and an electrode strand of similar geometrical pattern in cross section disposed axially of the tubular electrode, the outer flat sides of the tubular electrode being parallel with the flat sides of the electrode strand.

2,163,550

MULTIPLE CELL LIGHT MODULATOR

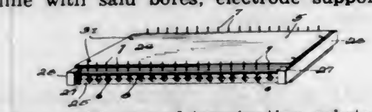
Stewart L. Clothier, East Orange, and Harold C. Hogencamp, Irvington, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey

Application October 15, 1936, Serial No. 105,649

2 Claims. (Cl. 88—61)

1. A multiple cell unit of the Kerr type comprising a body of conductive material provided

with a plurality of substantially parallel bores extending therethrough, a pair of insulating bars mounted one on each side of said body and out of line with said bores, electrode supports se-



cured to said bars and terminating substantially in the axis of said bores, and electrodes connected to said supports and extending through said bores substantially coaxially thereof.

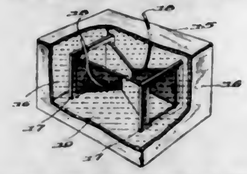
2,163,551

KERR CELL ELECTRODE

Stewart L. Clothier, East Orange, and Harold C. Hogencamp, Irvington, N. J., assignors to Kolorama Laboratories, Inc., Newark, N. J., a corporation of New Jersey

Application May 27, 1937, Serial No. 145,158

4 Claims. (Cl. 88—61)



2. In a light modulating cell of the Kerr type, opposed electrodes with active surfaces shaped to approach each other at their midsection, each of said active surfaces being reduced longitudinally in transverse dimension toward a midsection, whereby the opposing active surfaces define a light path having a cross-section of square pattern therebetween and of minimum cross-sectional area at the midsection, a container for said electrodes having opposite transparent end walls with the axis of the light path normal thereto, and an electro-optically transparent medium within said container.

2,163,552

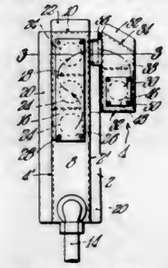
HEATING UNIT

Homer D. Dufault, Easthampton, Mass., assignor to Holyoke Heater Co., Holyoke, Mass., a corporation of Massachusetts

Application August 5, 1938, Serial No. 223,279

3 Claims. (Cl. 126—90)

1. A unitary heating device for association with a range or the like as a unit comprising in combination, a relatively narrow and elongated closed primary casing having an inlet in its lower side, a burner within said primary casing extending longitudinally of the lower sides thereof and connected to said inlet, spaced baffles within said casing extending transversely thereof above said burner, said baffles being disposed one above the other so as to form a restricted passageway which leads upwardly from the burner to the upper side of said casing, a relatively narrow and elongated closed secondary casing spaced away from said primary casing so as to provide an air space therebetwen, a baffle within said secondary casing extending transversely thereof intermediate the upper and lower walls thereof so as to form a restricted passageway which leads downwardly from the upper side of said secondary casing to a lower chamber, a tubular connection extending between the upper sides of said casings above the baffles therein and serving as the sole means of communication between the casings, and a flue leading away from said lower chamber of the secondary casing, all adapted and arranged whereby a circuitous passageway is pro-



vided which leads from said burner upwardly through the primary casing and through said tubular connection and downardly through said secondary casing and out said flue.

2,163,553

EXPANSION JOINT MATERIAL

Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

No Drawing. Application January 31, 1934, Serial No. 709,187

4 Claims. (Cl. 106—31)

3. Expansion joint material comprising a mixture of polymerized cotton-seed oil and bituminous material.

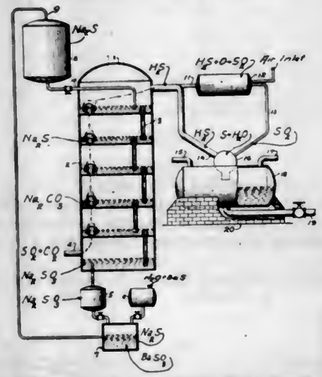
2,163,554

PROCESS FOR MAKING ELEMENTAL SULPHUR FROM ORES AND GASES CONTAINING SULPHUR

Gant Gaither, Hopkinsville, Ky.

Application February 7, 1938, Serial No. 189,131

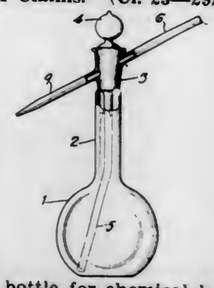
1 Claim. (Cl. 23—226)



The cyclic process of preparing sulphur from sulphur dioxide which comprises, absorbing sulphur dioxide in a solution of alkali carbonate, whereby carbon dioxide and sodium sulphite solution are produced, reacting said sodium sulphite solution with hot barium sulphide solution, whereby barium sulphite is precipitated and sodium sulphide solution is produced, reducing said barium sulphite with carbon, whereby barium sulphide is produced, recycling said barium sulphide, absorbing said carbon dioxide in said sodium sulphide solution, whereby sodium carbonate solution and hydrogen sulphide are produced, recycling said sodium carbonate solution,

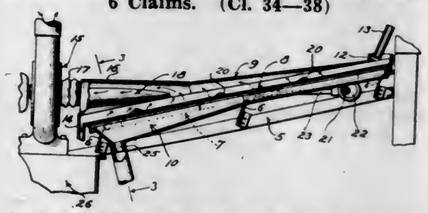
with sulphur dioxide just entering the process, and finally oxidizing said hydrogen sulphide to elemental sulphur.

2,163,555
CHEMICAL APPARATUS
William O. Geyer and Hermann A. Heyn, Bloomfield, N. J.; said Heyn assignor to said Geyer
Application August 23, 1937, Serial No. 160,356
4 Claims. (Cl. 23—292)



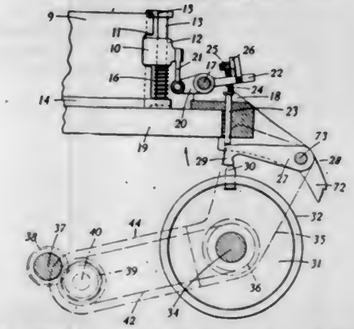
1. A wash bottle for chemical laboratory use, comprising in combination a glass flask provided with a neck integral with the flask and extending vertically above the flask and a glass closure member rotatively closing the open end of said neck, the said neck and the closure member each being provided with opposite openings located aligned to coincide in one position of rotation of said closure member on the neck to provide opposite passageways therethrough from the exterior to the interior of the flask, a tube on the exterior of the wash bottle to conduct air under pressure through one said passageway to the interior of the flask onto the top of fluid contained in said flask and a second tube on the exterior of the bottle and extending downwardly towards the bottom of the flask to conduct fluid from the bottom of the flask to the other said passageway and a third tube on the exterior of said bottle to conduct the fluid delivered to the other said passageway by said second tube to a point remote from the bottle, the remote end of said third tube being provided with an opening of restricted diameter.

2,163,556
PELLET DRIER
Herbert L. Glaze, South Pasadena, Calif., assignor to William K. Booth, doing business as Equipment Engineering Company, Los Angeles, Calif.
Application August 31, 1937, Serial No. 161,789
6 Claims. (Cl. 34—38)



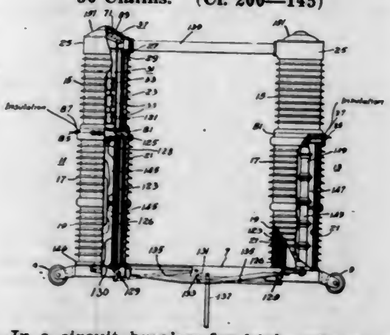
1. A drier for pellets and the like comprising an inclined perforated screen adapted to have pellets and the like gravitate thereon, means for supporting said screen, a hood mounted on and enclosing the upper side of said screen, exhaust means connected with said hood adjacent the lower end of said screen for inducing a draft of atmospheric air upwardly through the perforations of the screen, and a baffle plate mounted at the lower end of the screen in spaced superposed relation thereto between said screen and said exhaust means.

2,163,557
MANUFACTURE OF CIRCULAR KNITTED ARTICLES WITH POUCHES
Henry Harold Holmes, Leicester, England, assignor to Wildt and Company Limited, Leicester, England, a British company
Application April 8, 1937, Serial No. 135,779
In Great Britain April 17, 1936
9 Claims. (Cl. 66—1)



1. A method of producing circular knitted articles with pouches on a circular seamless hosiery knitting machine having a group of instep needles and a group of heel and toe needles, which includes as a characteristic step, operating the instep needles so that longer stitches are knitted for any desired number of courses, in order to produce longer stitches in the fabric on the opposite side of the work to a pouch immediately after formation of said pouch, for the purpose herein described.

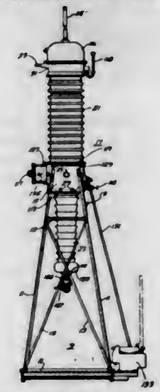
2,163,558
CIRCUIT BREAKER
John B. MacNeill, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1937, Serial No. 139,921
30 Claims. (Cl. 200—145)



1. In a circuit breaker for high voltage power circuits, a substantially tubular casing of insulating material, a switch member movable to open or to closed-circuit position to open or to close the circuit through the breaker, means

mounting said switch member for movement within said casing in the direction of the longitudinal axis thereof, actuating means disposed in said casing for moving said switch member to open or to closed-circuit position comprising a main driving lever pivotally supported adjacent one end, an intermediate multiplying lever pivotally supported adjacent one end, the free end of said main lever being pivotally coupled to said intermediate lever adjacent the pivot end thereof, a translatable lever pivoted intermediate its ends to the free end of said intermediate lever, one end of said translatable lever being pivotally connected to said switch member.

2,163,559
CIRCUIT BREAKER
John B. MacNeill, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1937, Serial No. 139,922
20 Claims. (Cl. 200—48)



1. In a circuit breaker for high voltage power circuits, a tubular casing of insulating material, a line terminal supported on said casing adjacent one end thereof, supporting means for said casing, a unitary contact assemblage disposed within said casing including at least one pair of relatively movable main contacts and a pair of disconnecting contacts arranged end for end in substantially axial alignment, one contact of said disconnecting contacts being connected with said line terminal, a support member removably secured to said casing adjacent said line terminal, and means for mounting said contact assemblage upon said support member, said contact assemblage being removable with said support member from said casing as a unit.

2,163,560
PARASITICIDAL COMPOSITIONS
William B. Parker, Placerville, Calif., assignor to California Spray-Chemical Corporation, Berkeley, Calif., a corporation of Delaware
No Drawing. Application July 25, 1938, Serial No. 221,163
13 Claims. (Cl. 167—28)

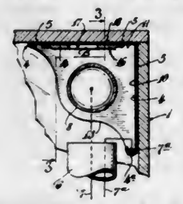
1. A horticultural parasiticide comprising a mineral oil having dispersed therein an oil jelling agent in quantity sufficient to produce incipient jellation.

13. In the method of protecting vegetation from parasites which includes the use of a parasiticide in which a mineral oil is the essential parasiticidal ingredient, the steps which comprise adding to said mineral oil a jell-forming agent in amount sufficient to produce incipient jellation of said mineral oil, directing upon the vegetation to be protected a free-floating fog-like mist of the parasiticide containing said oil and said jell-forming agent, the individual particles of said fog-like mist having an average diameter between about 70 and 300 microns with a major portion thereof between 100 and 200 microns, thus depositing on the surfaces of the vegetation substantially separate droplets of said parasiticide.

2,163,561
CHROME STEEL ALLOY VALVE ELEMENT
Peter Payson, New York, Lewis S. Bergen, Great Neck, N. Y., and Walter L. Hodapp, East Orange, N. J., assignors to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 11, 1937, Serial No. 174,046
3 Claims. (Cl. 123—188)

1. A valve element for internal combustion engines made of an alloy steel characterized by high corrosion resistance to lead oxybromide, lead oxysulphate, and lead oxide at elevated temperatures, said steel containing: over 20% to about 30% chromium, about 0.5 to 2% carbon, and the balance substantially iron.

2,163,562
ILLUMINATING AND ADVERTISING DEVICE FOR SHOWCASES
John T. Putnam and Edward G. Shure, Chicago, Ill.; said Shure assignor to J. Howard Seymour, Wayne, Ill.
Application November 12, 1938, Serial No. 240,098
7 Claims. (Cl. 40—130)



1. In an illuminating and advertising device for a show case, a gaseous illuminating tube giving off a cold light, a reflector bracket for supporting said tube and reflecting the light therefrom into the show case, and cut-out portions in said bracket and containing advertising matter illuminated by the tube.

2,163,563
METHOD OF RECLAIMING MINERAL OILS
Walther Schrauth, Berlin-Dahlem, Germany, assignor to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany, a corporation of Germany
No Drawing. Application February 15, 1936, Serial No. 64,168. In Germany February 16, 1935
7 Claims. (Cl. 196—50)

1. The method of obtaining hydrocarbons of mineral oil character from mixtures of mineral oil of relatively high molecular weight and organic fatty material, including fatty esters which mixtures are produced by the treatment with mineral oil of material containing organic fats which comprises treating such mixtures to re-

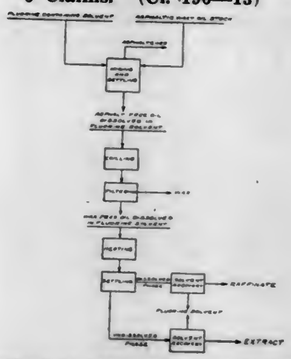
duce the organic fatty esters to hydrocarbons including lower molecular weight hydrocarbons and separating the lower molecular weight hydrocarbons so formed from the product.

2,163,564

METHOD OF REFINING MINERAL OILS

Ernest Terres, New York, and Erich Saegebarth, Long Island City, N. Y., and Joseph Moos, Berlin-Mariendorf, and Hans Ramser, Berlin-Steglitz, Germany, assignors, by mesne assignments, to Edeleanu Gesellschaft m. b. H., Berlin, Germany, a corporation of Germany

Application May 23, 1935, Serial No. 23,130
6 Claims. (Cl. 196—13)



1. A method of refining a waxy mineral oil stock comprising dissolving the oil in a liquefied organic fluorine compound in which the oil is soluble and at low temperatures the wax is insoluble, chilling the mixture to a low temperature at which the wax separates out, removing the separated wax, and heating the solution in a separate step to a higher temperature to bring about phase separation, and separating the phases.

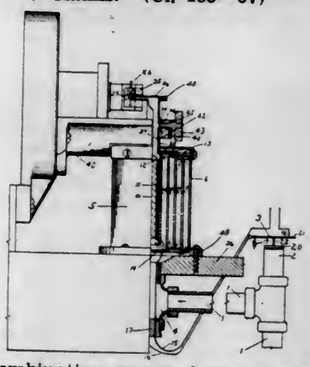
3. A method of refining a mineral oil containing asphalt comprising dissolving the oil in a fluorinated derivative of an aromatic hydrocarbon containing no oxygen, separating out the undissolved asphalt, chilling the solution to precipitate out wax, and removing the wax.

2,163,565

APPARATUS FOR FILAMENT COILING

Ralph B. Thomas, Beverly, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts

Application October 12, 1938, Serial No. 234,636
9 Claims. (Cl. 153—67)



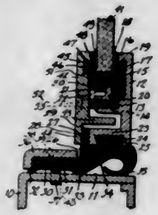
1. In combination, means for moving a mandrel in the direction of the longitudinal axis of said mandrel, means for coiling a wire around the periphery of said mandrel, and a tube concentric with the axis of the mandrel and arranged to direct a stream of heated air around the mandrel and its coiled wire at the point of coiling.

2,163,566

FRONT OR REAR WINDOW CONSTRUCTION FOR MOTOR BUSES OR THE LIKE

Siegfried E. Blessin, Short Hills, N. J., assignor to The National Lock Washer Company, Newark, N. J., a corporation of New Jersey

Application October 28, 1937, Serial No. 171,407
12 Claims. (Cl. 296—44)



1. In a window construction for use in a window opening having a frame receiving surface, a glass pane supporting frame member, a resilient mounting strip secured to said frame member including a cushion portion adapted to engage said frame receiving surface to provide a resilient spacer between said surface and frame and an attaching portion projecting with respect to said cushion portion and engaged at its under surface with said frame receiving surface, binder means engaged with the upper surface of said attaching portion in opposed relation to said frame receiving surface, and means for securing said binder means to said frame receiving surface and compressing said attaching portion therebetween.

2,163,567

BONDED FIBROUS INSULATING MATERIAL

Jesse Howell Gregory, Wheaton, Ill., assignor to American Rock Wool Corporation, Wabash, Ind., a corporation of Indiana

No Drawing. Application August 27, 1937, Serial No. 161,338
11 Claims. (Cl. 154—44)

1. As a new article of manufacture, an impregnated mineral wool felt, the fibers of which are coated and felted together with a mixture of a plasticized rosin having a melting point of at least 100° F. and normally incapable of causing the felt to be self-sustaining at high temperatures and a water insoluble alkali metal soap, said impregnated felt being self-sustaining at a temperature ranging from approximately 140° to 150° F. due to the presence of said metal soap.

2,163,568

BOTTLE COOLER

Peter Schlumbohm, New York, N. Y.

Application March 28, 1938, Serial No. 198,499
2 Claims. (Cl. 62—34)

1. A device of the class described, said device comprising a metallic container having a cylindrical portion closed at one end and of a cross section and volume but slightly in excess of the cross section and volume of a bottle-shaped beverage recipient; a second cylindrical portion and a flaring portion connecting the first and second portions; the first mentioned portion being adapted to hold a quantity of ice before the bottle is introduced into said device; the aggregate



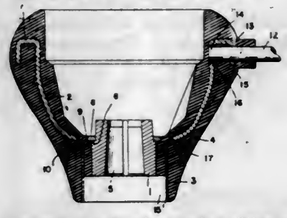
capacity of said second portion and said flaring portion exceeding the capacity of the first mentioned portion and the cross sectional area of the second mentioned portion being such as to facilitate the introduction of the bottle into the device.

2,163,569

STEERING WHEEL HUB STRUCTURE

Harry F. Smith, Toledo, Ohio, assignor to The Acklin Stamping Company, Toledo, Ohio, a corporation of Ohio

Application September 11, 1937, Serial No. 163,464
11 Claims. (Cl. 74—552)



1. In a steering wheel, a plurality of spokes, and a supporting hub structure for said spokes having a cup-shaped member provided at its open end with an inverted channel-shaped portion, the sides of said channel-shaped portion having openings receiving portions of said spokes, means securing said spoke portions to said channel-shaped portion, and means formed from plastic material covering said cup-shaped member and said spoke securing means.

DESIGNS

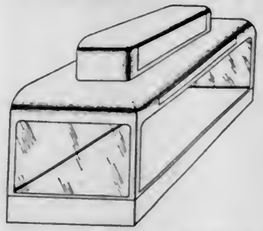
JUNE 20, 1939

115,283
DESIGN FOR A FINGER RING
Benjamin Axel, Brooklyn, N. Y.
Application April 10, 1939, Serial No. 84,165
Term of patent 3½ years



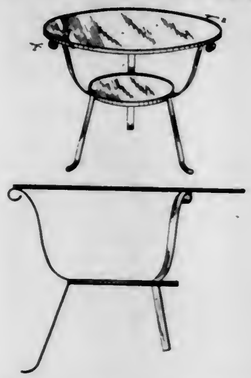
The ornamental design for a finger ring, substantially as shown.

115,284
DESIGN FOR A STERILE GLASS STORAGE UNIT
Donald P. Caverly, Marblehead, Mass.
Application October 21, 1938, Serial No. 80,587
Term of patent 7 years



The ornamental design for a sterile glass storage unit, as shown.

115,285
DESIGN FOR A TABLE OR SIMILAR ARTICLE
Robert A. Conkling, Jr., Olean, N. Y., assignor of one-half to Kenneth D. Fobes, Hollywood, Calif.
Application November 8, 1938, Serial No. 80,966
Term of patent 3½ years



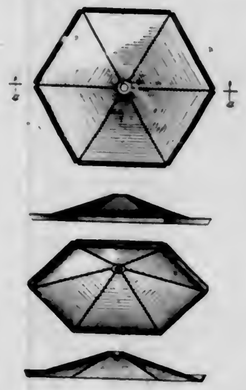
The ornamental design for a table or similar article substantially as shown.

115,286
DESIGN FOR A CASING FOR SUCTION CLEANER OR SIMILAR ARTICLES
Henry Dreyfuss, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 11, 1939, Serial No. 82,934
Term of patent 14 years



The ornamental design for a casing for suction cleaners or similar articles, substantially as shown.

115,287
DESIGN FOR A SHELF FOR A DISPLAY RACK
Aubrey M. Evans, Webster Groves, Mo., assignor to C. E. Erickson Company, Inc., Des Moines, Iowa, a corporation of Iowa
Application October 18, 1937, Serial No. 72,284
Term of patent 7 years



The ornamental design for a shelf for a display rack, substantially as shown.

115,288
DESIGN FOR A MECHANICAL PENCIL OR SIMILAR ARTICLE
Ned D. Fish, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application November 12, 1938, Serial No. 81,046
Term of patent 14 years



The ornamental design for a mechanical pencil or similar article, substantially as shown and described.

115,289
DESIGN FOR A RING
Milton H. Herzog, Chicago, Ill.
Application April 1, 1939, Serial No. 83,974
Term of patent 3½ years



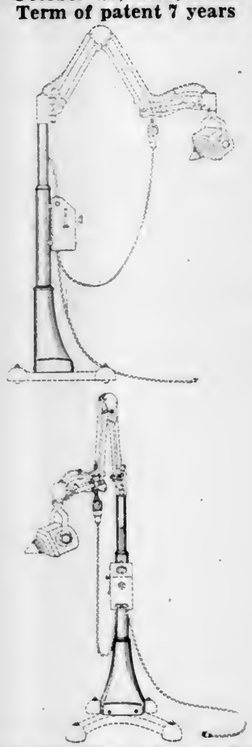
The ornamental design for a ring, as shown.

115,290
DESIGN FOR A VASE OR SIMILAR ARTICLE
Sydney Eustace Hill, Witton, Birmingham, England, assignor to Pearson-Page-Jewsbury Co. Limited, Witton, Birmingham, England, a British company
Application April 7, 1939, Serial No. 84,104
In Great Britain March 17, 1939
Term of patent 7 years



The ornamental design for a vase or similar article, as shown.

115,291
DESIGN FOR AN X-RAY UNIT
Thomas M. McDonald, Canton, Ohio, assignor to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application October 27, 1938, Serial No. 80,699
Term of patent 7 years



The ornamental design for an X-ray unit, as shown and described.

115,292
DESIGN FOR A MERCHANDISE DISPLAY RACK
Harry S. Pakula, Chicago, Ill.
Application January 26, 1939, Serial No. 82,613
Term of patent 3½ years



The ornamental design for a merchandise display rack, substantially as shown and described.

115,293
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 18, 1939, Serial No. 83,083
Term of patent 3½ years



The ornamental design for an earring or similar article, substantially as shown.

115,294
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 18, 1939, Serial No. 83,084
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

115,295
DESIGN FOR A CLIP OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 18, 1939, Serial No. 83,085
Term of patent 3½ years



The ornamental design for a clip or similar article, substantially as shown.

115,296
DESIGN FOR A CLIP OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 18, 1939, Serial No. 83,087
Term of patent 3½ years



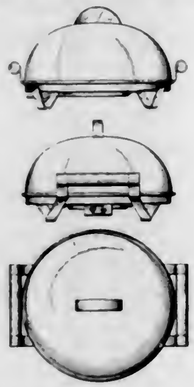
The ornamental design for a clip or similar article, substantially as shown.

115,297
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 18, 1939, Serial No. 83,088
Term of patent 3½ years



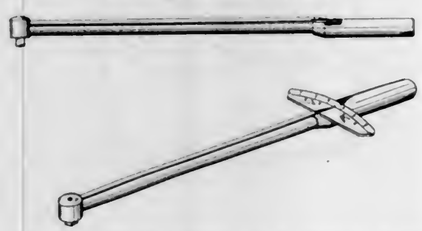
The ornamental design for a brooch or similar article, substantially as shown.

115,298
DESIGN FOR A ROLL WARMER OR THE LIKE
Stephen A. Platt, Decatur, Ill., assignor to U. S. Manufacturing Corporation, Decatur, Ill.
Application March 27, 1939, Serial No. 83,852
Term of patent 7 years



The ornamental design for a roll warmer or the like, substantially as shown.

115,299
DESIGN FOR A TENSION WRENCH
Arthur E. Price, Jackson, Mich., assignor to Hinckley-Myers Company, Jackson, Mich.
Application March 1, 1939, Serial No. 83,282
Term of patent 7 years



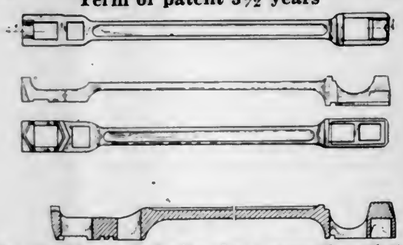
The ornamental design for a tension wrench, as shown and described.

115,300
DESIGN FOR A FINGER RING
Melvin A. Reich, Buffalo, N. Y.
Application April 6, 1938, Serial No. 76,330
Term of patent 3½ years



The ornamental design for a finger ring, as shown.

115,301
DESIGN FOR A WRENCH
August Gus Spexarth, Astoria, Oreg.
Application April 3, 1939, Serial No. 84,001
Term of patent 3½ years



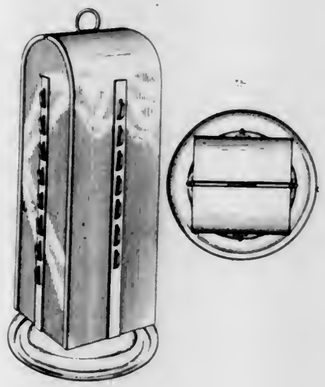
The ornamental design for a wrench, substantially as shown.

115,302
DESIGN FOR A BRIDGE FOR OPHTHALMIC MOUNTINGS
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 4, 1939, Serial No. 83,353
Term of patent 14 years



The ornamental design for a bridge for ophthalmic mountings, substantially as shown.

115,303
DESIGN FOR A MERCHANDISE DISPLAY STAND
James F. Urbanek, Elmwood Park, Ill.
Application October 13, 1938, Serial No. 80,427
Term of patent 7 years



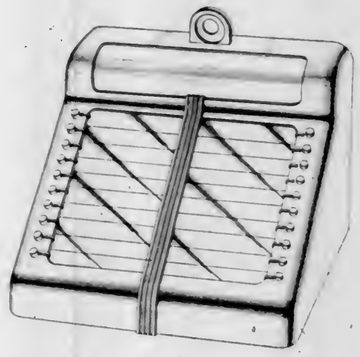
The ornamental design for a merchandise display stand, substantially as shown.

115,304
DESIGN FOR A STORE FRONT
Harry L. Wyman, Minneapolis, Minn.
Application July 29, 1938, Serial No. 78,952
Term of patent 7 years



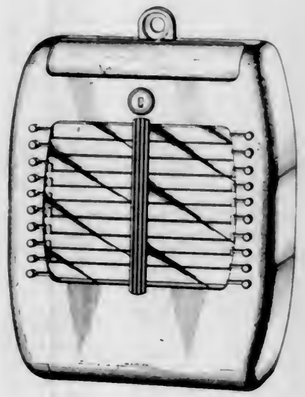
The ornamental design for a store front, substantially as shown.

115,305
DESIGN FOR AN ELECTRIC REMOTE CONTROLLER CASING
Lloyd J. Andres, Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich., a corporation of Michigan
Application March 20, 1939, Serial No. 83,714
Term of patent 7 years



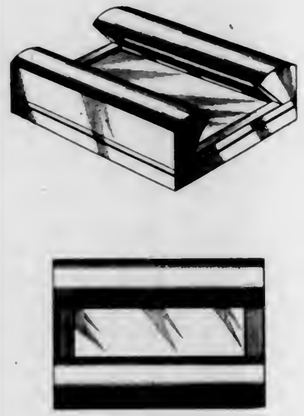
The ornamental design for an electric remote controller casing, as shown.

115,306
DESIGN FOR AN ELECTRIC REMOTE CONTROLLER CASING
Lloyd J. Andres, Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich., a corporation of Michigan
Application March 20, 1939, Serial No. 83,715
Term of patent 7 years



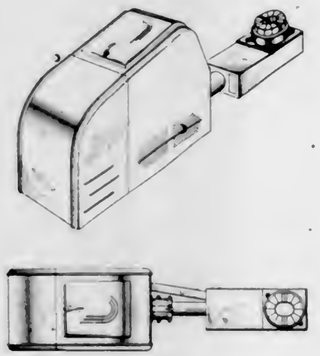
The ornamental design for an electric remote controller casing, as shown.

115,307
DESIGN FOR A PHOTOGRAPHIC CONTACT PRINTING FRAME
Alexander W. Breingan, New York, N. Y.
Application August 9, 1938, Serial No. 79,199
Term of patent 3½ years



The ornamental design for a photographic contact printing frame, substantially as shown.

115,308
DESIGN FOR A STOKER
Verdrie F. Clark, New Albany, Ind., assignor to Peerless Manufacturing Corporation, Louisville, Ky.
Application May 2, 1938, Serial No. 76,933
Term of patent 3½ years



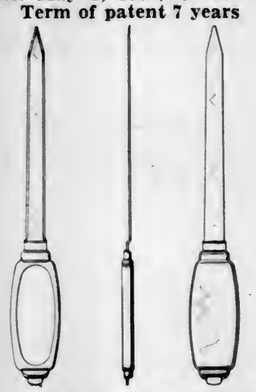
The ornamental design for a stoker, as shown and described.

115,309
DESIGN FOR A HOE
John M. Council, Wananish, N. C.
Application April 26, 1939, Serial No. 84,585
Term of patent 14 years



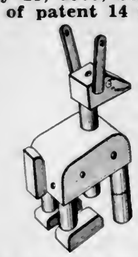
The ornamental design for a hoe, as shown.

115,310
DESIGN FOR A LETTER OPENER
Martin C. Dellinger, Lancaster, Pa., assignor to K-D Manufacturing Company, Lancaster, Pa., a corporation of Pennsylvania
Application May 1, 1939, Serial No. 84,696
Term of patent 7 years



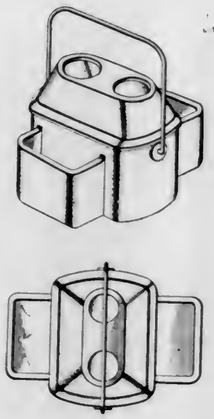
The ornamental design for a letter opener, as shown.

115,311
DESIGN FOR AN ANIMAL FIGURE
Theodore R. Duncan, Los Angeles, Calif.
Application July 15, 1938, Serial No. 78,516
Term of patent 14 years



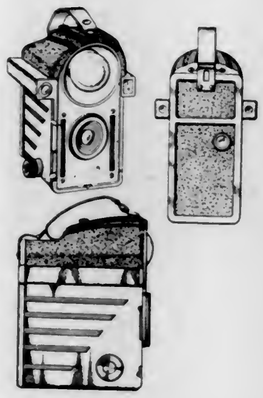
The ornamental design for an animal figure, as shown.

115,312
DESIGN FOR A BATTERY SERVICE KIT OR THE LIKE
Leo Edelmann, Chicago, Ill.
Application November 8, 1938, Serial No. 80,965
Term of patent 14 years



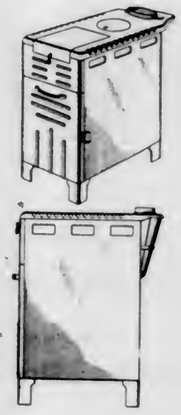
The ornamental design for a battery service kit or the like, as shown and described.

115,313
DESIGN FOR A CAMERA OR SIMILAR ARTICLE
Benjamin Helzick, Brooklyn, N. Y.
Application March 6, 1939, Serial No. 83,361
Term of patent 14 years



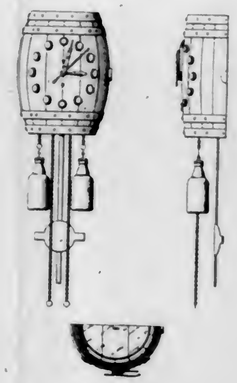
The ornamental design for a camera or similar article, as shown and described.

115,314
DESIGN FOR A STOVE
Frank T. Herron, Chattanooga, Tenn., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application January 30, 1939, Serial No. 82,666
Term of patent 14 years



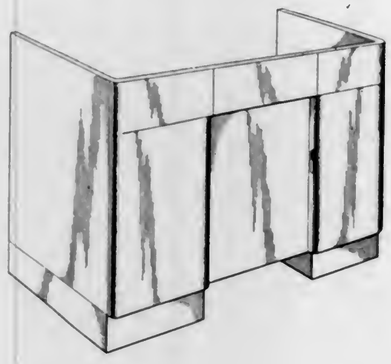
The ornamental design for a stove, as shown and described.

115,315
DESIGN FOR A WALL CLOCK
Philip Koch, Philadelphia, Pa.
Application April 26, 1939, Serial No. 84,565
Term of patent 14 years



The ornamental design for a wall clock, substantially as shown and described.

115,316
DESIGN FOR A SINK CABINET
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 18, 1938, Serial No. 81,210
Term of patent 7 years



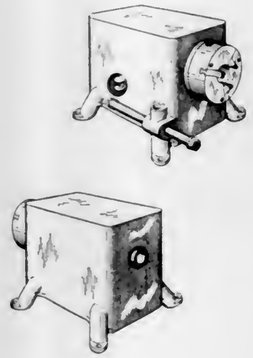
The ornamental design for a sink cabinet, as shown.

115,317
DESIGN FOR A DAUBER
Melvin H. Partridge, New Rochelle, N. Y., assignor to Ox Fibre Brush Company, Inc., New York, N. Y., a corporation of Delaware
Application April 6, 1939, Serial No. 84,081
Term of patent 7 years



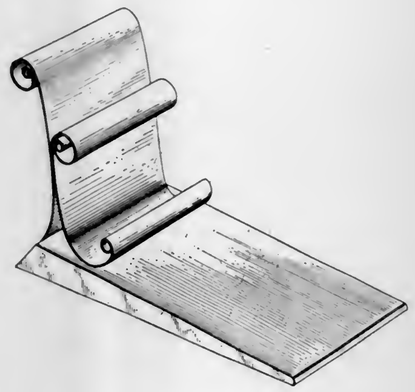
The ornamental design for a dauber, substantially as shown.

115,318
DESIGN FOR A POWER DRIVE UNIT FOR USE WITH HAND CUTTING TOOLS
Robert B. Pealer, Warren, Ohio, assignor to Beaver Pipe Tools, Inc., Warren, Ohio, a corporation of Ohio
Application April 25, 1939, Serial No. 84,554
Term of patent 14 years



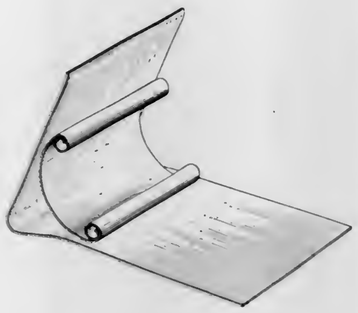
The ornamental design for a power drive unit for use with hand cutting tools, substantially as shown.

115,319
DESIGN FOR A COMBINATION DESK UNIT
Emanuel R. Posnack, New York, N. Y.
Application February 4, 1939, Serial No. 82,775
Term of patent 14 years



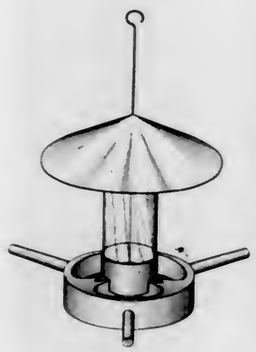
The ornamental design for a combination desk unit, substantially as shown.

115,320
DESIGN FOR A COMBINATION DESK UNIT
Emanuel R. Posnack, New York, N. Y.
Application April 21, 1939, Serial No. 84,453
Term of patent 14 years



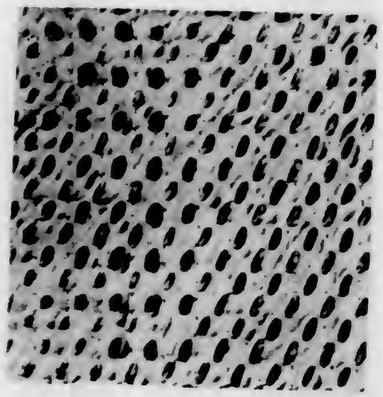
The ornamental design for a combination desk unit, substantially as shown.

115,321
DESIGN FOR A BIRD FEEDING STATION
Paul Pueschel, Glencoe, Ill.
Application April 19, 1939, Serial No. 84,384
Term of patent 7 years



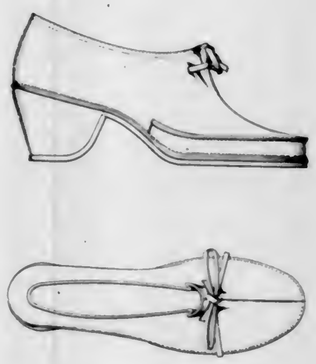
The ornamental design for a bird feeding station, as shown.

115,322
DESIGN FOR A MATZO
Irving Streit, New York, N. Y.
Application January 11, 1939, Serial No. 82,276
Term of patent 14 years



The ornamental design for a matzo, substantially as shown and described.

115,323
DESIGN FOR A SHOE
Mabel Winkel and Charles A. Julianelli, New York, N. Y.
Application March 8, 1939, Serial No. 83,425
Term of patent 3½ years



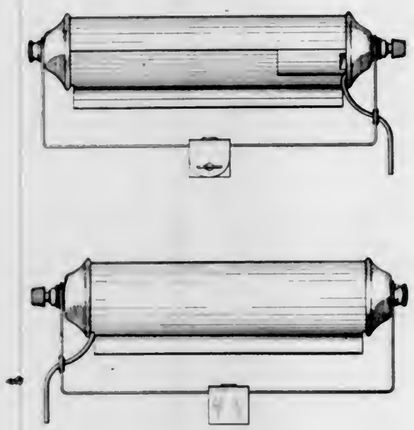
The ornamental design for a shoe, as shown.

115,324
DESIGN FOR A VANITY CASE OR SIMILAR ARTICLE
David H. Zell, Brooklyn, N. Y.
Application September 14, 1938, Serial No. 79,889
Term of patent 14 years



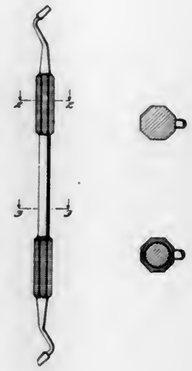
The ornamental design for a vanity case or similar article, substantially as shown.

115,325
DESIGN FOR A BED LAMP OR SIMILAR ARTICLE
Harry I. Albright, Akron, Ohio
Application December 16, 1938, Serial No. 81,816
Term of patent 14 years



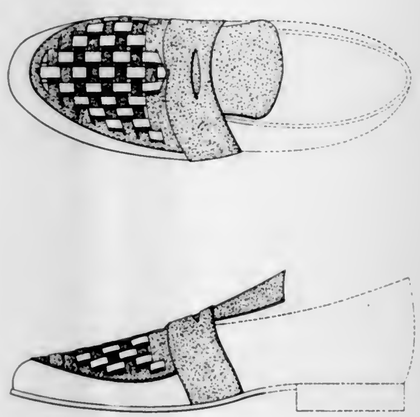
The ornamental design for a bed lamp or similar article, as shown.

115,326
DESIGN FOR A DENTAL TOOL
Edward L. Chott, Chicago, Ill.
Application December 30, 1938, Serial No. 82,091
Term of patent 14 years



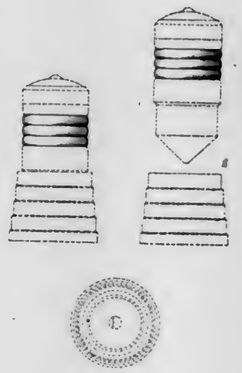
The ornamental design for a dental tool, as shown.

115,327
DESIGN FOR A SLIPPER
Ernest A. Bickford, Worcester, Mass., assignor to Wiley-Bickford-Sweet Corp., Worcester, Mass., a corporation of Massachusetts
Application April 7, 1939, Serial No. 84,111
Term of patent 3½ years



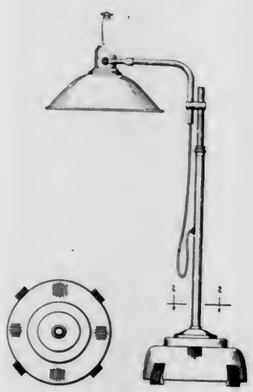
The ornamental design for a slipper, as shown.

115,328
DESIGN FOR A COMBINED LIQUID DISPENSER AND SUPPORT THEREFOR
Georges Binon, Paris, France, assignor to The Food Dispenser Company, a corporation of Connecticut
Application November 26, 1937, Serial No. 73,199
Term of patent 14 years



The ornamental design for a combined liquid dispenser and support therefor, as shown and described.

115,329
DESIGN FOR A SUN LAMP
Paul N. Cloutier, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a corporation of Illinois
Application March 8, 1939, Serial No. 83,427
Term of patent 3½ years



The ornamental design for a sun lamp, as shown.

115,330
DESIGN FOR A STATUETTE
Daniel J. Conley, Seattle, Wash.
Refiled for abandoned application Serial No. 74,694, January 29, 1938. This application March 28, 1939, Serial No. 83,886. Term of patent 14 years



The ornamental design for a statuette, as shown.

115,331
DESIGN FOR A POWDER BOX
Benjamin F. Conner, West Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application March 22, 1939, Serial No. 83,774
Term of patent 14 years



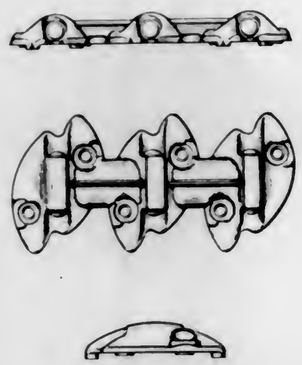
The ornamental design for a powder box, as shown.

115,332
DESIGN FOR A PICTURE EXHIBITING MEDALLION
Birchall Hammer, Elkins Park, Pa.
Application October 7, 1938, Serial No. 80,299
Term of patent 7 years



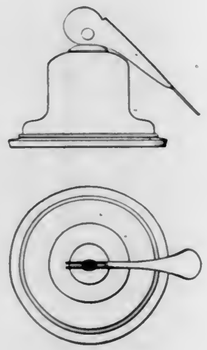
The ornamental design for a picture exhibiting medallion, substantially as shown.

115,333
DESIGN FOR A TRAFFIC MARKER
Oakley H. Hershman, Indianapolis, Ind.
Application December 23, 1938, Serial No. 81,956
Term of patent 14 years



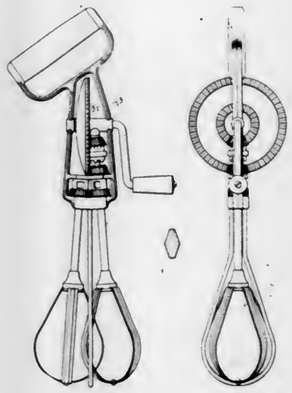
The ornamental design for a traffic marker, as shown.

115,334
DESIGN FOR A LENS REMOVER FOR AUTOMOBILE HEADLIGHTS
Otto G. Hildebrand and Gustav Brabenec, Cleveland, Ohio; said Brabenec assignor to said Hildebrand
Application June 21, 1938, Serial No. 77,968
Term of patent 7 years



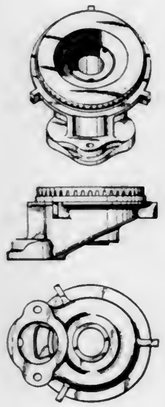
The ornamental design for a lens remover for automobile headlights, as shown.

115,335
DESIGN FOR A BEATER
Frank O. Holister and Paul W. Wortman, Los Angeles, Calif.
Application April 26, 1939, Serial No. 84,558
Term of patent 14 years



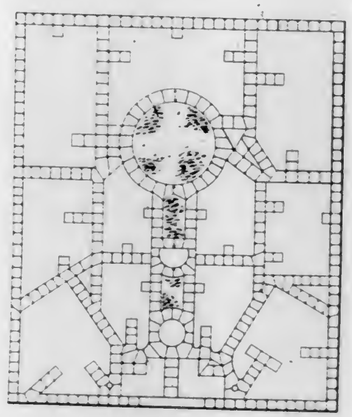
The ornamental design for a beater, substantially as shown.

115,336
DESIGN FOR A BURNER
Lawrence Jaros, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application May 16, 1939, Serial No. 85,028
Term of patent 7 years



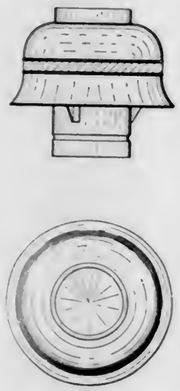
The ornamental design for a burner, as shown.

115,337
DESIGN FOR A GAME BOARD
William Livingston, Brooklyn, and George Freedman, New York, N. Y.
Application April 28, 1939, Serial No. 84,646
Term of patent 3½ years



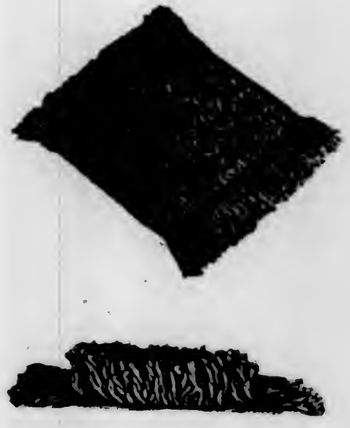
The ornamental design for a game board, substantially as shown and described.

115,338
DESIGN FOR A DRAFT DIVERTER FOR DOMESTIC WATER HEATERS OR THE LIKE
Clarence H. Morrow, Shaker Heights, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application October 6, 1938, Serial No. 80,292
Term of patent 14 years



The ornamental design for a draft diverter for domestic water heaters or the like, as shown and described.

115,339
DESIGN FOR A MOP CLOTH
Ottilie Muckenhirn, Basel, Switzerland
Application February 9, 1938, Serial No. 75,022
Term of patent 14 years



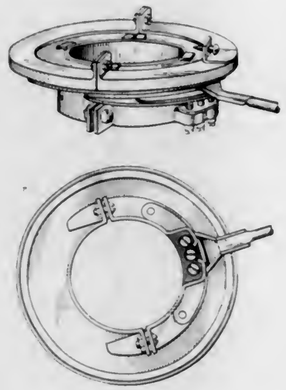
The ornamental design for a mop cloth, as shown.

115,340
DESIGN FOR AN ADJUSTABLE LAMP
Samuel Weldon Rosenthal, New York, N. Y.
Application May 2, 1939, Serial No. 84,723
Term of patent 7 years



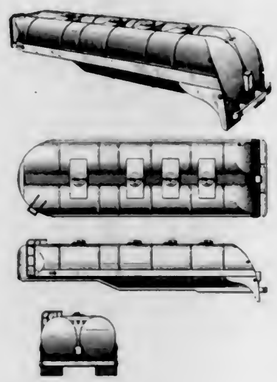
The ornamental design for an adjustable lamp, as shown and described.

115,341
DESIGN FOR A DIRECTION INDICATING SIGNAL CONTROLLER FOR AUTOMOTIVE VEHICLES
Harve R. Stuart, Springfield, Ohio, assignor of one-half to Louis Illmer, Cortland, N. Y.
Application August 23, 1938, Serial No. 79,513
Term of patent 7 years



The ornamental design for a direction indicating signal controller for automotive vehicles, as shown and described.

115,342
DESIGN FOR A TRAILER TANK
Ralph Alexander Bradley, Kansas City, and Ralph Douglass George, Raytown, Mo., assignors to Butler Manufacturing Company, Kansas City, Mo., a corporation of Missouri
Application April 26, 1939, Serial No. 84,582
Term of patent 14 years



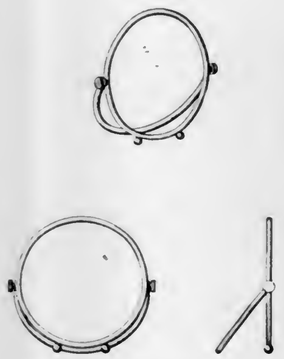
The ornamental design for a trailer tank, substantially as shown.

115,343
DESIGN FOR A BOTTLE
Albert C. Burgund, Tuckahoe, N. Y., assignor to Carr-Lowrey Glass Co., Baltimore, Md.
Application April 20, 1939, Serial No. 84,444
Term of patent 14 years



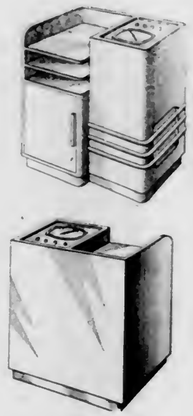
The ornamental design for a bottle, as shown.

115,344
DESIGN FOR A FAN SUPPORT
David Chapman, Chicago, Ill.
Application April 10, 1939, Serial No. 84,182
Term of patent 3½ years



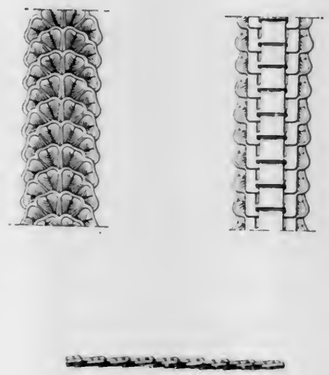
The ornamental design for a fan support, substantially as shown.

115,345
DESIGN FOR A COMBINED RADIO CABINET, UTILITY CABINET, AND BOOKCASE
David Dillon, New York, N. Y.
Application February 18, 1938, Serial No. 75,241
Term of patent 3½ years



The ornamental design for a combined radio cabinet, utility cabinet, and bookcase, substantially as shown.

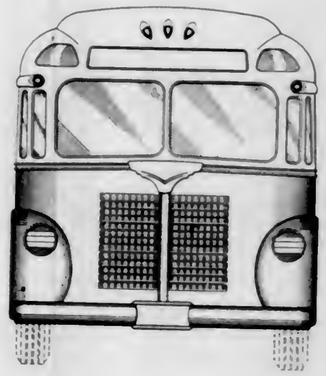
115,346
DESIGN FOR A LINKED CHAIN
Robert Mantz, New York, N. Y., assignor to City Novelty Corporation, New York, N. Y.
Application May 13, 1939, Serial No. 84,975
Term of patent 3½ years

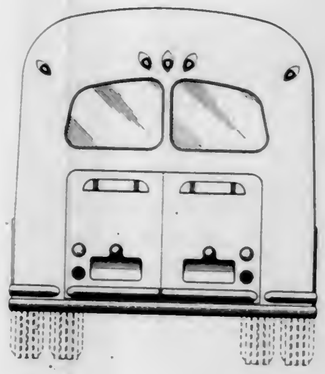


The ornamental design for a linked chain, substantially as shown.

115,347
DESIGN FOR A HIGHWAY VEHICLE
Edmund G. Mathauer, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y., a corporation of Delaware
Application July 7, 1938, Serial No. 78,338
Term of patent 7 years

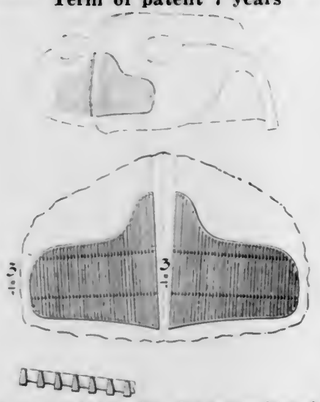






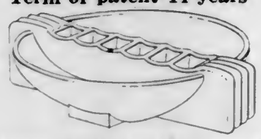
The ornamental design for a highway vehicle, substantially as shown and described.

115,348
DESIGN FOR A COMBINED AUTOMOBILE HOOD AND FENDER
Paul A. Meyer, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 19, 1938, Serial No. 81,871
Term of patent 7 years



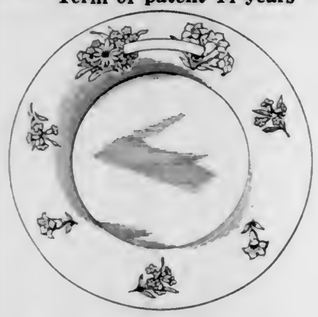
The ornamental design for a combined automobile hood and fender, substantially as shown and described.

115,349
DESIGN FOR AN ASHTRAY
Frederick G. Montgomery, Westfield, N. J., assignor to Ekstrand Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application February 15, 1939, Serial No. 82,994
Term of patent 14 years



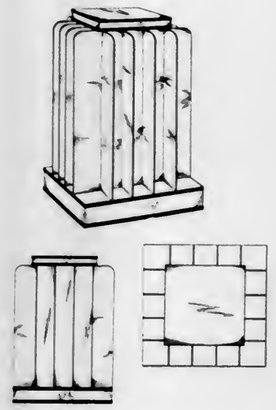
The ornamental design for an ashtray, as shown.

115,350
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Louise Pfuhl, Rochelle Park, N. J.
Application July 14, 1938, Serial No. 78,478
Term of patent 14 years



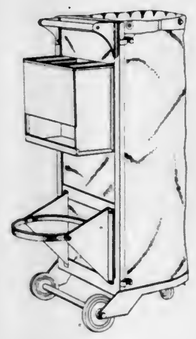
The ornamental design for a plate or similar article, as shown and described.

115,351
DESIGN FOR A COMBINED DISPLAY CASE AND STAND
Harry John Rask, Portland, Oreg.
Application February 23, 1939, Serial No. 83,155
Term of patent 7 years



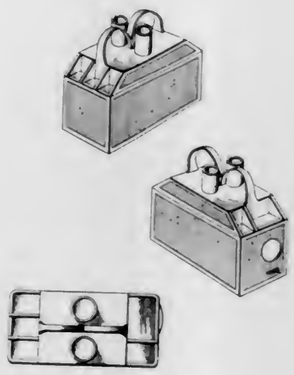
The ornamental design for a combined display case and stand, as shown.

115,352
DESIGN FOR A CHAMBERMAID'S TRUCK
Eliot R. Scudder, Braintree, Mass., assignor to Jarvis & Jarvis, Inc., Palmer, Mass., a corporation of Massachusetts
Application January 24, 1939, Serial No. 82,553
Term of patent 14 years



The ornamental design for a chambermaid's truck, as shown.

115,353
DESIGN FOR A BATTERY SERVICE KIT OR THE LIKE
Joseph C. Thomas, Akron, Ohio, assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois
Application November 8, 1938, Serial No. 80,964
Term of patent 14 years



The ornamental design for a battery service kit or the like, as shown and described.

115,354
DESIGN FOR A NECK STRAP ATTACHMENT FOR A SAXOPHONE
Henderson N. White, Cleveland, Ohio, assignor to The H. N. White Company, Cleveland, Ohio, a corporation of Ohio
Application February 25, 1939, Serial No. 83,204
Term of patent 14 years



The ornamental design for a neck strap attachment for a saxophone, substantially as shown.

115,355
DESIGN FOR A DRESS
Adelé Brody, Brooklyn, N. Y.
Application April 14, 1939, Serial No. 84,290
Term of patent 3½ years



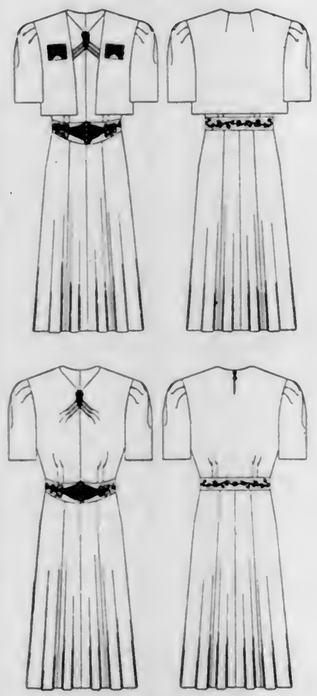
The ornamental design for a dress, substantially as shown.

115,356
DESIGN FOR A DRESS
Adelé Brody, Brooklyn, N. Y.
Application April 22, 1939, Serial No. 84,493
Term of patent 3½ years



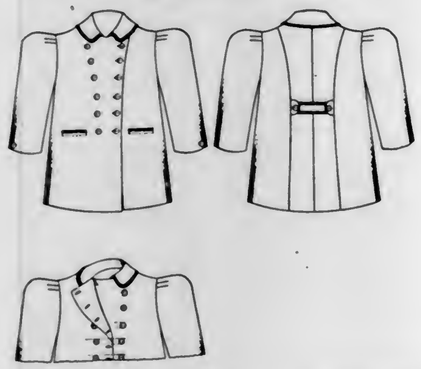
The ornamental design for a dress, substantially as shown and described.

115,357
DESIGN FOR A DRESS ENSEMBLE
Adelé Brody, Brooklyn, N. Y.
Application April 22, 1939, Serial No. 84,494
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

115,358
DESIGN FOR A COAT
Benjamin Chalk, New York, N. Y.
Application April 11, 1939, Serial No. 84,192
Term of patent 3½ years



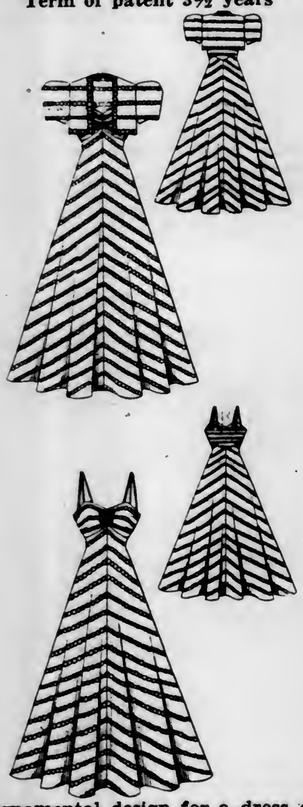
The ornamental design for a coat, substantially as shown and described.

115,359
DESIGN FOR A DRESS
David Crystal, New York, N. Y.
Application April 29, 1939, Serial No. 84,663
Term of patent 3½ years



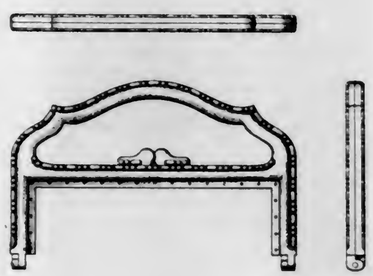
The ornamental design for a dress, substantially as shown and described.

115,360
DESIGN FOR A DRESS ENSEMBLE
Louis Katz, New York, N. Y.
Application May 8, 1939, Serial No. 84,854
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown and described.

115,361
DESIGN FOR A BAG FRAME
Charles McLaughlin, Garden City, N. Y., assignor to Tilton & Cook Co., Leominster, Mass., a corporation of Massachusetts
Application April 15, 1939, Serial No. 84,325
Term of patent 3½ years



The ornamental design for a bag frame, substantially as shown.

115,362
DESIGN FOR A RANGE
Walter F. Rogers, Oak Park, Ill., assignor to Crown Stove Works, Cicero, Ill., a corporation of Illinois
Application October 14, 1938, Serial No. 80,454
Term of patent 14 years



The ornamental design for a range, substantially as shown and described.

115,363
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application April 13, 1939, Serial No. 84,250
Term of patent 3½ years



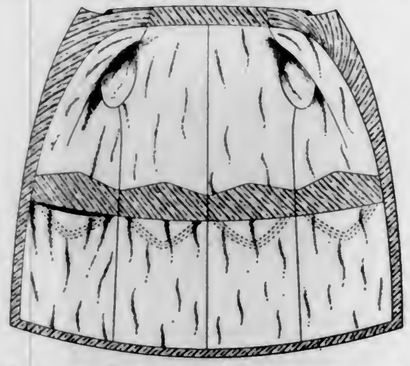
The ornamental design for a dress, substantially as shown and described.

115,364
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application May 15, 1939, Serial No. 84,986
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,365
DESIGN FOR A WOMAN'S COAT
Nathan H. Tobin, Brooklyn, N. Y.
Application February 21, 1939, Serial No. 83,143
Term of patent 7 years



The ornamental design for a woman's coat, as shown and described.

115,366
DESIGN FOR A VEILING
Samuel H. Aibel, New York, N. Y.
Application January 24, 1939, Serial No. 82,561
Term of patent 3½ years

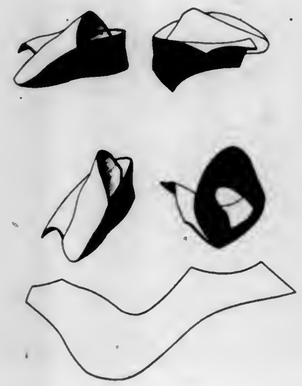
The ornamental design for a veiling, substantially as shown.

115,367
DESIGN FOR A TEXTILE FABRIC
Ira Strauss, New York, N. Y.
Application May 13, 1939, Serial No. 84,968
Term of patent 3½ years



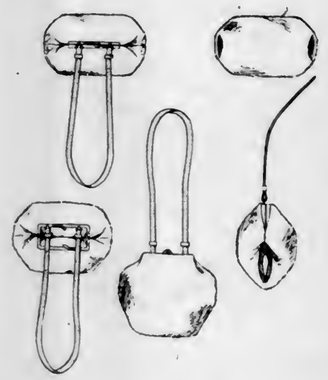
The ornamental design for a textile fabric, substantially as shown.

115,368
DESIGN FOR A HAT
Helen Barty, Brooklyn, N. Y.
Application May 17, 1939, Serial No. 85,041
Term of patent 3½ years



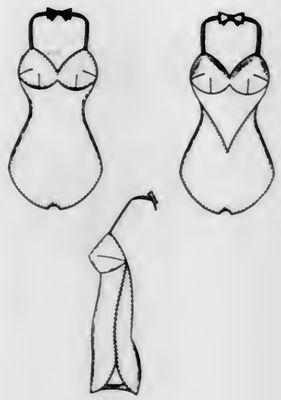
The ornamental design for a hat, substantially as shown.

115,369
DESIGN FOR A MUFF OR SIMILAR ARTICLE
Harold Block, New York, N. Y.
Application May 1, 1939, Serial No. 84,695
Term of patent 3½ years



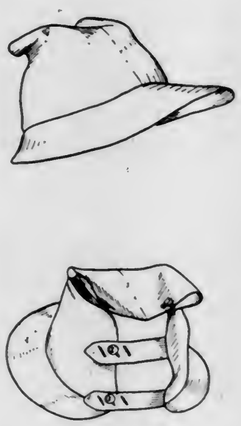
The ornamental design for a muff or similar article, substantially as shown and described.

115,370
DESIGN FOR A BATHING SUIT
Edward Mandel, Cleveland, Ohio
Application April 4, 1939, Serial No. 84,044
Term of patent 3½ years



The ornamental design for a bathing suit, substantially as shown.

115,371
DESIGN FOR A HAT
Murray J. Marks, New York, N. Y.
Application April 20, 1939, Serial No. 84,419
Term of patent 3½ years



The ornamental design for a hat, as shown.

115,372
DESIGN FOR A TEXTILE FABRIC
Curt E. Forstmann, Montclair, N. J.
Application June 8, 1938, Serial No. 77,678
Term of patent 14 years



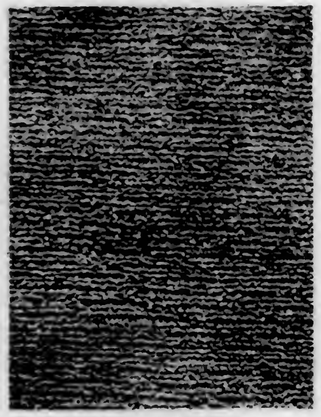
The ornamental design for a textile fabric as described and as shown.

115,373
DESIGN FOR A TEXTILE FABRIC
Curt E. Forstmann, Montclair, N. J.
Application April 7, 1939, Serial No. 84,120
Term of patent 14 years



The ornamental design for a textile fabric, as described and as shown.

115,374
DESIGN FOR A TEXTILE FABRIC
Curt E. Forstmann, Montclair, N. J.
Application April 7, 1939, Serial No. 84,121
Term of patent 14 years



The ornamental design for a textile fabric, as described and as shown.

115,375
DESIGN FOR A WOVEN TEXTILE FABRIC
Louis Newman, New York, N. Y.
Application December 30, 1938, Serial No. 82,071
Term of patent 3½ years



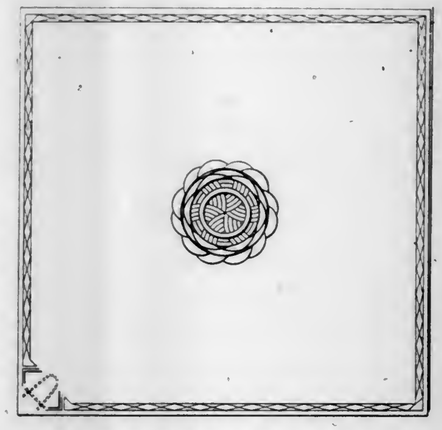
The ornamental design for a woven textile fabric, substantially as shown.

115,376
DESIGN FOR A TEXTILE FABRIC
Ira Strauss, New York, N. Y.
Application May 13, 1939, Serial No. 84,967
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

115,377
DESIGN FOR A NAPKIN
Ralph Rubino, New York, N. Y.
Application March 20, 1939, Serial No. 83,718
Term of patent 14 years



The ornamental design for a napkin, as shown and described.

Patents Nos. 2,163,570 to 2,164,301

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Labels	902
Labels Renewed	903
Prints	903
Reissues	905
Plant Patents	907
Patents Granted	908
Designs	1077

June 27, 1939

Trade-Marks	261	No. 368,555	to No. 368,815	inclusive.
T. M. Renewals	27			
Labels	38	No. 53,170	to No. 53,207	inclusive.
Labels Renewed	1			
Prints	7	No. 17,462	to No. 17,468	inclusive.
Reissues	9	No. 21,126	to No. 21,134	inclusive.
Plant Patent	1	No. 333		
Patents	732	No. 2,163,570	to No. 2,164,301	inclusive.
Designs	109	No. 115,378	to No. 115,486	inclusive.
Total	1,185			

Adjudicated Patents

(C. C. A. Wash.) Griffiths patent, No. 1,838,618, for plastic composition, claims 5, 8, 13, 16, and 17 *Held* invalid. *Pacific Marine Supply Co.* v. *A. S. Boyle Co.*, 103 F.(2d) 288.

(D. C. Ohio.) Fensom and Green patent, No. 1,850,319, for advertising sign, claims 1 and 2 *Held* valid and infringed. *Lackner Co.* v. *Neon Products*, 27 F. Supp. 191.

(C. C. A. Del.) Ware patent, No. 1,864,384, for piston, *Held* invalid. *Ware* v. *Pratt & Whitney Aircraft Co.*, 103 F.(2d) 364.

(C. C. A. Conn.) Malmstead patent, No. 1,955,306, for foundation garment, claims 8, 9, and 10 *Held* invalid. *Malmstead* v. *Warner Bros. Co.*, 103 F.(2d) 334.

(C. C. A. N. Y.) Samuels patent, No. 2,095,223, for fan, claims 1, 10, 13, and 18 *Held* valid and infringed. *Samson-United Corporation* v. *Sears, Roebuck & Co.*, 103 F.(2d) 312.

Disclaimers

1,646,563.—*John R. Sonneborn*, Willow Grove, Pa. Box-Wrapping System. Patent dated October 25, 1927. Disclaimer filed June 3, 1939, by the assignee, *Autokraft Box Corporation*.

Hereby enters this disclaimer to claims 3, 4, 5, 8, 13, and 14 of said patent.

2,060,766.—*Francis West, Jr.*, Chilmarks, Mass. Compass. Patent dated November 10, 1936. Disclaimer filed June 6, 1939, by the patentee.

Hereby enters this disclaimer of claims 1, 4, and 5 of said Letters Patent.

2,107,216.—*Harry L. Rogers*, Brooklyn, N. Y. Receptacle and Closure Therefor. Patent dated February 1, 1938. Disclaimer filed May 26, 1939, by the patentee.

Hereby enters this disclaimer to that part of the claim in said specification, to the effect that the claim is to be further limited by being interpreted as to include the following:

"said relatively thin liner and said integral thick sealing means being of molded rubber, said lips being solid and extending completely around the ends connecting one side to the other whereby sealing is effected at their ends as well as along the sides, the thick lips relatively incapable of failure, and the liner generally reinforced at the ends."

Classification Bulletin No. 75

Classification Bulletin No. 75 is now available and may be purchased from the Commissioner of Patents.

Interference Notice

U. S. Patent Office, *Washington, D. C., June 6, 1939.*

Emmerich Pillows, Inc., its assigns or legal representatives take notice:

An interference has been declared by this Office between the application of The Land-O-Nod Co., Broadway at Central, Minneapolis, Minn., for registration of a trade-mark, and trade-mark registered September 18, 1928, No. 247,065, to Chas. Emmerich and Co., 501 West Huron St., Chicago, Ill. The records of this Office show that Emmerich Pillows, Inc., Chicago, Ill., is the assignee of said registrant. A notice of such proceeding sent by registered mail to said Emmerich Pillows, Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Emmerich Pillows, Inc., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

Justin W. Macklin,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business June 10, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,965; Trade-Mark Division, 1,429. Oldest new case, Oct. 6, 1938; oldest amended, Aug. 15, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Jan. 5	Jan. 6	727
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Jan. 24	Jan. 21	632
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 8	Apr. 4	379
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Mar. 6	Mar. 13	423
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Mar. 15	Mar. 15	515
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	†Dec. 6	†Dec. 12	1011
5725	7. JARBOE, C. G., Optics; Photography	Feb. 25	Feb. 20	916
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 21	Jan. 16	1022
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Jan. 27	Jan. 30	699
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Mar. 2	Mar. 8	606
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Feb. 23	Feb. 25	453
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	†Dec. 15	†Dec. 7	568
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Dec. 28	Jan. 4	661
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Mar. 27	Mar. 27	450
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 24	Jan. 24	1165
5716	16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 30	†Dec. 31	822
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web-Feeding; Type Setting.	Feb. 7	Feb. 8	493
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 12	†Dec. 19	557
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 9	Jan. 9	433
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Mar. 20	Mar. 20	344
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 11	Feb. 23	493
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Jan. 20	Jan. 20	863
7624	23. BUTTNER, W. J., Registers (part)	†Nov. 16	†Nov. 29	266
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 15	†Dec. 16	1126
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 10	Mar. 10	493
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 26	Jan. 26	606
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Nov. 17	†Oct. 18	1173
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 18	Feb. 9	469
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Jan. 10	716
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 6	Jan. 5	859
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Mar. 10	Mar. 10	658
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Mar. 8	Mar. 1	394
6096	33. WYMAN, W. L., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Mar. 3	Mar. 15	705
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Mar. 17	Mar. 8	347
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 2	Feb. 24	563
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 17	Jan. 11	522
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Jan. 13	Jan. 5	678
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	†Nov. 12	†Nov. 14	710
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 25	Mar. 2	577
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Jan. 12	Jan. 13	1426
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	†Dec. 22	†Dec. 28	339
5882	42. CUTTING, H. O., Electric Signaling	†Nov. 28	†Nov. 23	628
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 8	Mar. 8	473
4087B	44. HARVEY, L. P., Refrigeration	†Dec. 27	Jan. 4	662
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Feb. 25	Feb. 11	592
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Jan. 16	Jan. 16	684
6082	47. LOWE, E. R., Clutches; Brakes	Feb. 23	Feb. 23	421
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 11	Mar. 13	413
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	†Nov. 17	†Oct. 15	1080
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Dec. 10	†Dec. 15	1208
5628	51. BACKUS, C. D., Radiant Energy (part)	Mar. 13	Mar. 13	648
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Jan. 18	Jan. 20	831
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Feb. 25	Mar. 2	544
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 16	Mar. 10	328
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Oct. 11	†Oct. 17	758
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Jan. 3	Jan. 4	1163
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Feb. 4	Feb. 10	462
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 4	Feb. 27	384
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 1	Mar. 4	580
5806	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Feb. 2	Feb. 2	422
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	†Dec. 24	Jan. 24	518
5621	62. PUGH, E. C., Games; Geometrical Instruments	Mar. 4	Apr. 1	435
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	†Dec. 14	†Dec. 22	587
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Feb. 13	Feb. 13	873
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Jan. 13	Jan. 17	612
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND — Trade-Marks	May 9	May 27	1,331
	— Labels and Prints	May 29	June 1	98
2605	Designs: H. H. KALUPY	Apr. 27	May 19	800

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE BELLIS

No. 4,083. Decided February 6, 1939

[101 F.(2d) 527]

PATENTABILITY—METHOD OF HEATING A HEAT TREATING FURNACE.

Claims for a method relating to the heating of a heat treating furnace *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. C. P. Goepel and *Mr. R. J. Mawhinney* for Bellis.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

By this appeal, appellant seeks review of the decision of the Board of Appeals of the United States Patent Office affirming the holding of the Primary Examiner as to the non-patentability of the following claim:

18. In the heat treatment of groups of metals consisting of alloy steels and non-ferrous metals requiring treatment at different specific temperature ranges by means of an electric furnace provided with a heat-retentive fused bath of high heat capacity heated by electric power from a general power source which is subject to peak and minimum loads, the process which comprises heating the fused bath of said furnace to its maximum desired temperature approximately 2000° F. during a period of minimum load on said power source, discontinuing the supply of current to the bath, immersing in the bath articles of alloy steel requiring high heat-treating temperatures while said bath is at substantially its maximum temperature until said alloy steel assumes the temperature of the bath and is heat treated, successively immersing in the same bath selected non-ferrous metals requiring lower heat-treating temperatures at successively decreasing temperature levels of the bath until each metal assumes the bath temperature and is heat treated, and supplying limited additional amounts of current to the same bath during non-minimum load periods to prolong at least one of said intermediate temperature ranges in said bath, said additional amounts of current being supplied to the bath in proportion to the quantity of metal treated in said bath at said lower temperature levels, whereby the different groups of metals requiring heat treatment at different temperature levels acquire the bath temperatures during substantially the same time of immersion.

The references cited are: Colby, 1,146,310, July 13, 1915; Schmidt, 1,916,810, July 4, 1933.

In the brief for appellant his alleged invention is described and discussed, in part, as follows:

The single claim involved in this appeal involves the heat treatment of groups of metals consisting of alloy steels and non-ferrous metals requiring treatment at different specific temperature ranges.

It is important at the outset to appreciate that appellant's invention is in the art of metallurgy. Neither of the prior patents cited is in the same art.

Appellant reduces annealing costs by reducing the cost of the electric current used to heat the electric furnace. He accomplishes this by suspending the consumption of current during the peak load period on the electric power source, but the surprising thing is that he is enabled to carry out his method and process at this very same period.

Furnaces of this character consume great quantities of current at enormous expense and the method that reduces these costs is extremely practicable and important in the industry. Electric current at the peak load period is at a higher rate or cost than at the period of low load.

When manufacturing plants are shut down at night the drain on the source of electric power is relaxed. The electric companies are desirous of promoting use of electric power at this low output period and therefore make price concessions to those using electricity at such time. It is therefore an economic factor to use electricity for power purposes during the interval between peak loads on the current source. Appellant draws his electricity from the source of power at the low output period and stores the potential energy secured therefrom for his daytime or factory work period use. In order to do this, however, he must have a furnace capable of withstanding a maximum temperature and he must have a molten bath in that furnace which will acquire that necessary maximum temperature and will be of such nature as to retain the same potentially throughout the day or factory working period. This bath is a chemical salt bath * * *. No such baths are found in the references cited.

Moreover the bath and furnace holding the bath must be such as to retain the temperature of the bath at the high initial temperature for long periods of time and to permit of a drop in the temperature only slowly.

In the decision of the Examiner appears the following brief statement of appellant's method:

Applicant's alleged invention relates to a method of heating a heat treating furnace, containing a bath of fusible metal for the purpose of storing heat, by supplying the heat with electric power during the night when the power rates are low. The material to be heat treated in the furnace is sorted into groups requiring the same temperature of heat treatment. During the day or working hours the materials are heat treated by subjecting the group requiring the high temperature first and then those requiring lower temperatures. Power may be supplied to the furnace during the day to maintain any one of the particular temperature levels desired.

Appellant's application bears the title "For Heat Treating Furnaces", and contains drawings of a device with description thereof in the specification, but if any apparatus claims were presented they were either cancelled or disallowed and were not included in the appeal to the Board. The specification recites that "a suitable type of furnace is shown * * * which is generally disclosed in applicant's prior patents", several of such prior patents being cited. So, the features of the apparatus evidently are conceded to be old in the art. It is assumed, however, that such mechanisms were not found to anticipate the method claim here at issue, since no one of those patents is cited as a reference.

Both of the reference patents relate particularly to devices used in cooking, especially baking, and it is noted that in both all the claims are apparatus claims, no method claim appearing in either.

In the statement of the Examiner, following the appeal to the Board, the following was said of the patent to Colby:

This patent was relied upon to show the use of electric power during "off peak" periods to supply heat to a stove or furnace and wherein the heat is stored in the stove by the use of a fusible metal. The heat produced by the electric current causes the metal to melt and the heat so stored is used in the cooking.

As to the Schmidt patent the Examiner's statement says:

This patent discloses a method of heating very similar to applicant's method. The furnace is provided with heat storage means A which is heated during the night on "off peak" electric current supplied to the furnace. The baking goods to be baked is sorted into groups and those requiring the highest heat are baked first; for example, the biscuits or other pastries requiring a high heat are baked first, then bread next and the cookies last which require a lower temperature. The furnace is provided with heating elements B so that current may be supplied during the day to maintain the desired temperature level.

The discussion by the Board differs in some respects from that of the Examiner. For example, the Board points out that by following appellant's procedure one is "able to get a curve representing the

current consumption which has rather a flat characteristic" (which curve, it may be said, is illustrated by a line in one of appellant's drawings), and states:

It is admitted that the steps of heat treating tools as defined in the appealed claim are old and the alleged novelty must necessarily reside in the distribution of the work so as to produce this flat curve. It is not seen that this operation comes within any one of the statutory subject matters of invention. It is really a method of shop management, which is quite analogous to a method of doing business and the latter has repeatedly been held as not coming within the terms of the statutes.

It is insisted on behalf of appellant that in the foregoing the Board dealt "with only one element of appellant's method claim", and, standing alone, this would seem to be true, but the Board continued by referring briefly to both the reference patents, and it seems to us that a fair interpretation of its decision is that all steps of the claim were analyzed by it, although not in as great detail as they were by the Examiner. There is no indication in the Board's decision that it disagreed with what the Examiner had held as to the applicability of the references to the features for which they were cited, but it made more direct reference to steps regarded as obvious than did the Examiner.

Upon the whole, we think the rejections below, taking the decisions together and in their entirety, were based upon the prior art plus obviousness of some features, and that the only question which we are called upon to determine is whether such rejections were justified for those reasons.

This involves, at least to some extent, the question of analogy between the art dealt with in the patents and the art dealt with by appellant. These respective arts have been sufficiently described, and appellant urges their non-analogy.

We think it obvious that neither of the patent devices, designed for cooking foods, is adapted to carry out appellant's method for the treatment of metals. For example, appellant teaches "immersing" the metals in the bath, and the "immersing" step is not shown in the patents, nor is any structural feature there shown for immersion, but it was pointed out by the Examiner that the step of immersing metals is old in the metal treating art and that this was conceded by appellant. Another feature appearing in the appealed claim which is not shown in the references relates to the degree of temperature to which the fused bath is heated, but, as was said by the Examiner, "the treatment of particular types of metals within certain temperature ranges" is not claimed by appellant to be new. Appellant points out that he assorts his metals into groups, and urges that Schmidt does not teach the assorting of bakery products into groups. In assorting the metals into groups, however (so that he may first treat those requiring the highest temperatures, thereby lowering the temperature so that a group requiring only such lower temperature may be next treated and so on through the process), appellant seems only to be doing the obvious, and the selection or assorting does not require invention.

In cases where references are cited from a field far removed from the field of the claim, it is not always easy to reach a correct conclusion upon the question of patentability. If the claim before us stood rejected alone on the references cited against it, we should feel constrained to disagree with the tribunals below, but those references do not constitute all the prior pertinent art. The concessions in appellant's specification with respect to the state of the art may and should be looked to as well. When this is done, and when the rule of obviousness as to certain features described in the claim is applied, we are not convinced that the conclusion reached by the tribunals of the Patent Office was erroneous.

The decision of the Board of Appeals of the United States Patent Office is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE NORDSTROM

No. 4,097. Decided February 6, 1939

[101 F.(2d) 666]

PATENTABILITY—VALVES.

Certain claims relating to valves *Held* patentable.

APPEAL from Patent Office. Reversed.

Messrs. Strauch and *Hoffman* (*Mr. William A. Strauch, Mr. James A. Hoffman*, and *Mr. Lewis D. Konigsford* of counsel) for Nordstrom.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

September 27, 1933, appellant Nordstrom filed an application for patent, Serial No. 691,213, in the United States Patent Office entitled "For valves". The Examiner allowed a number of claims but denied others, and still others were cancelled. Nordstrom appealed to the Board of Appeals respecting certain claims denied by the Examiner. The Board reversed the Examiner as to three of the so-appealed claims and allowed them, but affirmed the Examiner's decision as to others. Nordstrom thereupon appealed to this court, and brings before it for review the decision of the Board affirming the Examiner's rejection of claims numbered 31, 32, 67, and 68.

There are certain differences in phraseology between the appealed claims, but no one of them contains any particular limitation which differentiates it from the others in a patentable sense; so, we follow the brief of the Solicitor for the Patent Office in quoting claim 31 as typical:

31. In a valve, a valve casing having a passageway therethrough, a valve member in said casing for controlling flow through said passageway, a separate operating stem for said valve member passing through said casing having a laterally extending sealing surface interfitting with a complementary sealing surface on the casing, means for supplying lubricant between said surfaces, and a secondary seal of packing material about said stem forming part of said complementary seating surface on the casing to prevent outward escape of lubricant from between said surfaces.

The rejection was based upon a prior valve patent to appellant, No. 1,668,168 of May 1, 1928, in view of a patent to E. F. Osborne, entitled "Heating apparatus", granted January 4, 1881.

The feature of the claims most strongly emphasized is the secondary sealing means, described in

claim 31, supra, as a "secondary seal of packing material" about a separate operating stem. This appears to be the chief difference from the disclosure of appellant's prior patent. Discussing this feature, the Examiner said:

The Nordstrom patent shows everything included in the finally rejected claims except for the secondary packing about the stem shown by applicant at 28. The valve of the patent was designed to work satisfactorily in low pressure service. Applicant states that this valve when used in high pressure service tended to leak along the stem since the lubricant seal alone, while sufficient to prevent leakage at low pressures, was insufficient to prevent leakage at high pressures. In order to adapt the valve for higher pressures, an additional or secondary packing was provided around the stem. It is not seen that this addition involves invention, since the properties and uses of the various types of packings are well known in the art. Osborne shows that the particular form of packing used by applicant is old. It is believed this case falls within the doctrine so aptly defined by Judge Bond: "Where one stove is found to be unequal to the heating of a room, to put another beside it, even though smaller, requires no invention." *Millner v. Voss* (C. C., W. D. Va., 1882), 4 Hughes 262, 48 Fed. 832.

The Board said:

This application relates to applying a secondary seal to a valve of conventional type.

We are of the view that broadly there would be no invention in applying a secondary seal to a valve stem or a valve stem having a laterally extending sealing surface.

However, the Board holding in effect that it would not be obvious to place the secondary seal on the threaded portion of the stem allowed the claims which contained limitations embracing that feature.

At the hearing before us, appellant's counsel presented a model which has been quite helpful in our study of the case, and the record contains a number of affidavits; some relating to the commercial success of the invention, and others to featural differences between the device of the application and devices of the prior art, together with differences in results obtained from operation of such respective devices.

A matter earnestly stressed by appellant is that of the involved valve being designed for use in high pressure service. The brief on his behalf says:

The present invention was developed to supply the demand in the high pressure oil fields for a valve that could withstand the enormous pressures encountered, and would be easy to turn and provide a positive shut-off.

Elsewhere in his brief it is said:

These valves are also used on steam lines, mud lines, gas lines in the oil fields and in refineries on steam, gas and high temperature oil lines, and are rapidly gaining favor in other fields where an easy turning valve is required on high pressure service.

There is, as may be seen, nothing in the claims respecting high pressures.

It is the contention of appellant's counsel that appellant has done more than merely bring together—

"several old seals in juxtaposition, allowing each to work out its own effect, in order to merely secure the sum of the results that might be obtained from the individual seals, each acting alone * * *."

It is virtually conceded that if this were all appellant had done he would not be entitled to patent, but it is urged, in substance, that the appealed claims define a structure in which, by reason of the described arrangement of parts, there is a mutuality of action or a cooperation of elements in the attainment of a desired unitary result which was new in the art and involved invention.

It is believed by us that the contention is correct. That appellant has made an improvement in the art is not questioned. His device is shown to have had practical tests. The affidavit of Mr. F. K. Spurrier, a mechanical engineer in charge of the physical laboratory of Merco Nordstrom Valve Company (apparently appellant's assignee), shows, quite clearly we think, the improved results obtained over devices of the prior art in preventing leakage when the operation of the valve was under high pressure. It is possible, of course, that this improvement resulted solely from the combination shown in the allowed claims. However this may be, it is conceded that the prior art does not disclose a second seal in any relationship, whether on the threaded portion of the operating stem (held patentable by the Board) or otherwise. It was merely held, in effect, that, in view of the prior art, it would be obvious to place a second seal on the unthreaded portion of the operating stem.

It is not our purpose to use the reasons given by the Board for granting the narrow claims as an argument in support of the allowance of the broader ones, but upon the record in the case we feel constrained to disagree with the tribunals of the Patent Office respecting those broader ones. It is our view that appellant's development of the device may quite properly be held to have been inventive in nature, involving something more than mere mechanical skill.

Accordingly, the decision of the Board of Appeals, affirming the decision of the Examiner as to the four appealed claims, is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

BREESE *v.* TAMPAX SALES CORPORATION

No. 4,079. Decided February 6, 1939

[102 F.(2d) 808]

TRADE-MARKS—CANCELLATION.

Where cancellation of the registration of appellant's trade-mark "Tampad" for absorbent catamenial tampons was sought by appellee, alleged owner and prior user of the trade-mark "Tampax" registered for use on goods of the same descriptive properties, record reviewed and *Held* that appellee failed to establish ownership of the registration of the mark "Tampax" or any ownership of the mark, and that its first use of the mark was subsequent to the date of first use established by appellant for the mark "Tampad", and *Held* that appellee failed to establish facts sufficient to sustain its petition for cancellation.

APPEAL from Patent Office. Reversed.

Messrs. Orton and Griswold (*Mr. Frederick Griswold, Jr.* and *Mr. J. Russell Juten* of counsel) for Breese.

Messrs. Pennie, Davis, Marvin and Edmonds (*Mr. George E. Middleton, Mr. Clarence M. Fisher* and *Mr. Ambrose A. Arnold* of counsel) for Tampax Sales Corporation.

LENROOT, *J.*:

This is a trade-mark cancellation proceeding, under the Trade-Mark Act of February 20, 1905, in which the Commissioner of Patents reversed a decision of the Examiner of Trade-Mark Interferences which dismissed appellee's petition for the cancellation of the registration of appellant's trade-mark

"Tampad", registration No. 327,833, for absorbent catamenial tampons. The Commissioner held that appellee was the owner and prior user of the mark "Tampax", applied to similar goods, and that appellant's registration should be cancelled.

On September 3, 1935, the registration aforesaid was issued to appellant. On November 8, 1935, appellee filed its petition for the cancellation of appellant's said registration, alleging that it was the owner and user of the trade-mark "Tampax" and was the owner of registration No. 294,959, issued June 14, 1932, for the word "Tampax"; that said mark was registered for goods of the same descriptive properties as the goods upon which appellant applied her mark "Tampad", and that petitioner and its predecessors in business had been using said trade-mark continuously since December 1, 1931; that the marks of the parties are confusingly similar, and that the petitioner deemed itself injured by said registration of appellant.

In her answer appellant denied that appellee was the owner of said registration 294,959; denied that appellee had made a trade-mark use of the mark "Tampax", and denied that appellee had been injured by the mark of appellant.

Both parties took testimony. It appears that appellant was a resident of and did business in the State of New York, while appellee's place of business was Denver, Colo.

Depositions on behalf of appellee were taken at Denver on April 20, 1936; at the taking of said depositions appellant was not represented.

Among such depositions are those of L. B. Davis and Annabelle L. Desmond.

Mr. Davis' testimony given directly in this proceeding is short and reads as follows:

Q1. Will you please give your name, age, residence, and occupation?
A1. L. Bernard Davis; age forty; address 308 Continental Oil Building, Denver, Colorado; attorney and secretary-treasurer of Tampax Sales Corporation.
Q2. Are you the L. Bernard Davis that testified in Opposition 15,043, *Tampax Sales Corporation* v. *The Absorbent Cotton Company of America*, on January 30, 1936?
A2. I am.
Q3. I show you applicant's Exhibit A, a copy of the testimony taken in that case, and ask you to read it. Is that your testimony?
A3. It is.
Q4. And is it still your testimony on the matters testified to?
A4. It is.
Q5. I show you the Exhibits 1 to 3, inclusive, which were introduced in Opposition 15,043, *Tampax Sales Corporation* v. *The Absorbent Cotton Company of America*. Are those the exhibits which you identified and testified to in your testimony in that case?
A5. They are.

MR. GALBREATH: I introduce the exhibits testified to by the witness and ask that they be designated by the exhibit numbers as given them in Opposition 15,043.

(The exhibits presented were marked for identification "Opposer's Exhibits 1 to 3" inclusive, according to the markings given them in former Opposition 15,043, and are enclosed under separate cover and made a part hereof.)

Direct Examination Closed—No Cross Examination

The following appears in the testimony of Annabelle L. Desmond:

Q2. Are you the Annabelle L. Desmond that testified in Opposition 15,043, *Tampax Sales Corporation* v. *The Absorbent Cotton Company of America*, on January 30, 1936?
A2. Yes, I am.
Q3. I show you a copy of the testimony taken in that case and ask you to read it. Is that your testimony?
A3. Yes, it is.
Q4. And is it still your testimony on the matter testified to?
A4. Yes, it is.

MR. GALBREATH: I introduce a copy of the testimony taken in Opposition 15,043, *Tampax Sales Corporation* v. *The Absorbent Cotton Company of America*, and ask that it be marked "Applicant's Exhibit A".

(The document presented was marked for identification "Applicant's Exhibit A" and is attached to this deposition and made a part hereof.)

In the testimony of Davis found in Exhibit A, offered in evidence by appellee, is the following:

Q3. How long have you been connected with the Tampax Sales Corporation?
A3. Since it was incorporated on January 2, 1934.
Q4. In what business is the Tampax Sales Corporation engaged?
A4. In the manufacturing, distribution, and selling of a catamenial device known under the trade name of "Tampax".

* * * * * * *

Q17. How and when did the Tampax Sales Corporation acquire the patents and the trade-mark to the product?
A17. It acquired the trade-mark from a corporation known as Tampax, Inc. by assignment of the mark, together with the goodwill in connection therewith, and said assignment was recorded in the Patent Office on November 24, 1934, in Liber M-161, page 440. The patents were assigned by Dr. E. C. Haas, patentee, to the Tampax Sales Corporation on or about July 15, 1935. Prior to that date Tampax Sales Corporation operated under a license agreement from the said E. C. Haas.
Q18. At the time that you acquired the patent control and trade-mark from your predecessors was the product on the market?
A18. It was.
Q19. Under what name?
A19. Tampax.

* * * * * * *

Q22. At the time of acquiring the trade-mark and patent rights, did the Tampax Sales Corporation also receive an assignment of the goodwill of Tampax, Inc.?
A22. It did.
Q23. Is it a fact, Mr. Davis, that the product Tampax and the trade-mark "Tampax" were in actual use upon the market prior to the time of incorporation of the Tampax Sales Corporation?
A23. Yes.
Q24. And is it a fact that the Tampax Sales Corporation acquired the complete assignment of the trade-mark, patent rights, and goodwill of their predecessors, Tampax, Inc.?
A24. Yes.

The testimony of the witness Annabelle L. Desmond, contained in said Exhibit A, is not material to any question here involved, inasmuch as it relates only to the use of the mark "Tampax" by appellee since 1934.

Together with said Exhibit A, 18 documentary exhibits were introduced in evidence in the instant proceedings, but said exhibits were identified only in said Exhibit A.

The certificate of a notary public found in the record states that a copy of the testimony taken by depositions as aforesaid was mailed to appellant's attorneys in New York city on May 6, 1936.

On May 20, 1936, appellant's counsel filed in the Patent Office a motion to suppress said Exhibit A and Exhibits 1 to 18, said motion reading as follows:

Now comes the party Breese, by her attorney Frederick Griswold, Jr., and moves to suppress and strike from the record the following exhibits of the petitioner, Tampax Sales Corporation:

Exhibit A
Exhibits 1 to 18

As grounds for the motion, it is respectfully submitted that the exhibits are incompetent; were introduced in evidence contrary to the rules; that these exhibits constitute an alleged transcript and exhibits of an alleged opposition proceeding in which the registrant herein, Paula A. M. Breese, was not a party and was not used to discredit the testimony of witnesses in this proceeding.

And it is further moved that this motion be heard at final hearing.

In response to this motion we find the following in the record:

The motion filed May 20, 1936, by the registrant, to strike from the record certain exhibits filed by the petitioner, is noted by the Examiner.

In so far as this motion relates to "rules" it is indefinite in that these rules are not identified. Regardless of this indefiniteness, further consideration of the motion is postponed to final hearing. It may be stated, however, that at final hearing any testimony taken in behalf of the petitioner, in which the present registrant and respondent is not a party, will not be competent upon which to base a judgment adverse to the registrant.

The taking of testimony on behalf of appellant was not begun until June 16, 1936, from which we infer that, at the time of appellant's motion to suppress the evidence taken in another proceeding, the time for taking testimony on behalf of appellee had not expired. The record does not show the time limits for taking testimony by the parties, but no doubt appellee could have obtained leave for retaking the depositions of said witnesses Davis and Desmond upon application therefor.

It is clear to us that appellant's motion to suppress should be treated as a motion to suppress the entire deposition of the witness Davis, for if Exhibit A be eliminated therefrom there is nothing in his testimony that is relevant to the issues in the case.

The Examiner of Trade-Mark Interferences did not directly pass upon said motion of appellant, but he apparently considered the testimony in said Exhibit A, and upon all the testimony in the case concluded that appellant was the prior user of the mark "Tampad", and dismissed appellee's application for cancellation.

We would observe at this point that it is clear that the marks of the parties are applied to goods of the same descriptive properties, and that the marks are confusingly similar.

Upon appeal the Commissioner, through his first assistant, hereinafter referred to as the Commissioner, reversed the decision of the Examiner of Interferences, as herinbefore stated. In his decision the Commissioner stated:

The Examiner of Trade-Mark Interferences properly found that certain testimony taken in another opposition and offered as Exhibit A for Tampax Sales Corporation should not be here considered, and he also held that a certificate relating to the "Tampax" registration merely annexed to the record was not the best evidence and that the certificate of registration should have been properly introduced. The Examiner further found that the respondent, Breese, appellee here, was the first to enter the field of business and preceded the petitioner, Tampax Sales Corporation, both as to adoption and use of the mark in trade.

Examination of the proceedings and testimony convinces me that the appellant has at least made a prima facie showing by the uncontradicted testimony of the witness Davis (Tampax Record pages 25–26) that the Tampax Sales Corporation acquired its trade-mark rights, together with the good will in connection therewith, from Tampax, Inc., and it cites a Patent Office record of an assignment. The assignment is not produced, but on the other hand this witness's testimony was in the presence of the attorney for Breese and there was no cross-examination, nor was any testimony produced to contradict his statement.

The testimony of Davis referred to in the above quotation is his testimony in said Exhibit A.

The Commissioner further held that, although the registration by Tampax, Inc. of the mark "Tampax", No. 294,959, was not formally introduced in evidence, a copy thereof was produced before the Examiner of Trade-Mark Interferences, and that judicial notice, under the circumstances, would be taken of said registration, and that, by virtue of said registration and the testimony of Davis in Exhibit A, appellee was entitled to the filing date of the application for said registration No. 294,959, which was February 5, 1932, for the first use of the trade-mark "Tampax", and that appellant had not established a trade-mark use of the mark "Tampad" prior to that date. He therefore reversed the decision of the Examiner of Trade-Mark Interferences and granted appellee's application for cancellation.

Thereafter, appellant filed a petition for reconsideration of said decision. In his decision upon said petition the Assistant Commissioner modified his former decision, stating as follows:

* * * It may be noted that the decision does refer to the testimony of the witness Davis and later it makes the observation that testimony adduced in another interference might properly be disregarded. The decision is amplified in this particular to the following extent:

It is noted that in the printed record, pages 4 and 5, appears the testimony of the witness Davis called in this cancellation proceeding and who was asked to read the testimony in Exhibit A taken in an opposition proceeding No. 15,043 and introduced in this proceeding "As Applicant's Exhibit A", and that the witness said it was still his testimony "on the matters testified to".

It appears that no counsel was present on behalf of the party Breese. However, Breese could have been represented and could have cross-examined on this testimony. It may, therefore, be properly considered.

He further stated:

As further evidence on the point of the Tampax Sales Corporation being successor to the registrant of the word "Tampax", namely, Tampax, Inc., the witness Holmes testifies (Rec. page 14) that the license agreements which included the trade-mark and goodwill of the business were released to the Tampax Sales Corporation. This is further corroborated by the same witness on page 16 of the printed record. This is testimony taken in this cancellation proceeding.

We will first consider whether the Commissioner erred in giving any effect to the testimony of Davis contained in said Exhibit A.

Appellee contends that, inasmuch as no objection was made by appellant at the time the testimony of Davis was taken, any irregularity in the taking of the deposition or as to the competency of Exhibit A was waived by her. In support of this contention appellee's counsel cites the case of *Doane* v. *Glenn*, 21 Wall. 33, wherein it is stated:

None of the objections to the reading of the deposition go to the testimony of the witness. All of them relate to defects and irregularities which might have been obviated by retaking the deposition. It does not appear that any notice beforehand was given to the counsel of the plaintiffs that they would be made. In such cases the objection must be noted when the deposition is taken, or be presented by a motion to suppress before the trial is begun. The party taking the deposition is entitled to have the question of its admissibility settled in advance. Good faith and due diligence are required on both sides. When such objections, under the circumstances of this case, are withheld until the trial is in progress, they must be regarded as waived, and the deposition should be admitted in evidence. This is demanded by the interests of justice. It is necessary to prevent surprise and the sacrifice of substantial rights. It subjects the other party to no hardship. All that is exacted of him is proper frankness.

The settled rule of this court is in accordance with these views.

It will be noted that the court there stated that—

"the objection must be noted when the deposition is taken, or be presented by a motion to suppress before the trial is begun."

Such a motion was seasonably made in the case at bar before appellant took any testimony, and therefore the cited case does not support appellee's contention; on the contrary, said case supports the

contention of appellant that her motion to suppress should have been granted.

Appellee also cites the case of *J. M. Bradford Grocery Co.* v. *Haynie*, 261 Fed. 349, wherein it was stated:

> It is assigned as error that the court, over objection, admitted in evidence testimony given by one of the bankrupts at a meeting of the creditors. Representatives of the defendant were present at the meeting. The admission of the testimony formerly given by the bankrupt followed the making by him, in the course of his examination as a witness in the trial, of a statement to the effect that the report of his testimony given at the meeting of creditors was correct, and that he confirmed that testimony as being the truth. The witness, by adopting his formerly given testimony, made it a part of the testimony given by him in the trial. So far as appears, this was done without objection. The result of the court's action, which is complained of, was not to admit in evidence testimony not deposed to in the trial. That ruling was not erroneous.

It will be observed that the opening statement in the quotation refers to the action of the court in admitting, "over objection", testimony given by one of the bankrupts at a meeting of the creditors. In the latter part of the quotation, on the other hand, referring to the adoption by the witness of his testimony previously given, it is stated that "this was done without objection". From this last statement it would appear that the objection spoken of in the first sentence was not based upon the ground that it was improper for the witness so to adopt prior testimony. In view of this, it is not clear how such case supports appellee's contention here.

Furthermore, in the case at bar there was a clear violation of the rules of the Patent Office in the taking of the depositions of said Davis and Desmond. Rule 60 of the rules of the Patent Office, relating to registration of trade-marks, reads as follows:

> 60. The proceedings, on oppositions, and on applications for cancellation, shall follow, as nearly as practicable, the practice in interferences between applications for patents. Pleadings and procedure with respect thereto shall be governed by the rules in equity suits in the United States courts.

Rule 156 of the Rules of Practice in the United States Patent Office, relating to testimony in patent interferences, reads as follows:

> 156. The testimony will be taken in answer to interrogatories, with the questions and answers committed to writing in their regular order by the officer, or by some person not interested in the case either as a party thereto or as attorney. With the written consent of all parties present the testimony may be taken down stenographically and transcribed. The testimony shall be taken down by the officer or in his presence, except when his presence is waived on the record by agreement of the parties.
>
> * * * * * * *
>
> In the absence of all opposing parties and their counsel, testimony may be taken in longhand, typewriting, or stenographically.

Rule 157 provides that, upon motion duly made and granted, testimony taken in any interference proceeding may be used in any subsequent interference proceeding, so far as relevant and material, subject to the right of any contesting party to recall the witnesses whose depositions have been taken.

It is conceded that no such motion was made in the case at bar. That testimony in a prior interference may not, in the absence of such a motion, be introduced in a subsequent interference was held in *Noxon* v. *Potts*, 25 C. C. P. A. (Patents) 859, 94 F. (2d) 388, 492 O. G. 697.

It is our opinion that the attempt to incorporate in the instant case the testimony of Davis given in another case was clearly a violation of the rules of the Patent Office. While such a violation might have been waived by appellant, it clearly was not waived because a motion to suppress the deposition was promptly made.

It is clear that rule 156, supra, requires testimony by deposition to be taken de novo before the Examining Officer, and this is confirmed by the fact that a separate rule, 157, provides specific and different procedure whereby testimony given in a prior interference may be incorporated into the record of a later case.

That a motion to suppress a deposition improperly taken, if seasonably made, is equivalent to objections thereto if made at the time of taking the deposition, is held in the following cases: *York Company* v. *Central Railroad*, 70 U. S. 107; *Howard* v. *Stillwell and Bierce Manufacturing Company*, 139 U. S. 199; *Insurance Company of North America* v. *Guardiola*, 129 U. S. 642.

In the case last cited it is suggested that objections to documents or memoranda embodied in or annexed to depositions might perhaps be more properly made by motion to suppress them before the trial.

It is our opinion that appellant's motion to suppress the depositions of Davis and Desmond should have been granted, and that the Commissioner was right in his first decision that they should be disregarded.

This holding may seem technical for the reason that the witnesses Davis and Desmond could, and probably would, have given the same testimony in the case at bar as was given by them in the case which embraced Exhibit A; but appellant had a right to expect that these depositions would be taken in accordance with well established principles of law and the rules of the Patent Office, and when her counsel discovered that the depositions had not been so taken they had the right to object to them by promptly moving for their suppression, which they did. We must presume that appellee could have corrected the irregularity in the taking of said depositions, but it failed to do so.

We therefore proceed to the consideration of the evidence in the case, disregarding the depositions of Davis and Desmond.

Appellant, in her answer, challenged the allegation of appellee in its petition for cancellation that it was the owner of the trade-mark "Tampax" and the owner of said trade-mark registration No. 294,959, issued to Tampax, Inc. The burden was therefore upon appellee to prove ownership and use of the trade-mark "Tampax", and before it could rely upon said registration No. 294,959, the burden was upon it to establish that ownership of the same had been transferred to it.

It appears that appellee was incorporated on January 2, 1934, and of course its use of the trade-mark "Tampax" could not antedate that time.

One Dr. Haas, a witness on behalf of appellee, testified that he was the original owner of said mark "Tampax", having applied it to a catamenial device invented by him. It appears from the record that he made application for a patent for such a device on November 19, 1931, upon which application Patent No. 1,926,900 was issued on September 12, 1933. Said witness further testified that in July or August, 1935, he sold said patent to appellee; that about April, 1931, he personally began the manufacture of said product; that about September, 1931, he gave a license to one Hildebrand to manufacture and sell the product invented by him, and that at the time of said license to Hildebrand he also transferred to him the ownership of said trade-mark "Tampax", and the goodwill of his business in the product to which the mark was applied; that in December, 1931, Hildebrand incorporated his business under the name of "Tampax, Inc.", and said corporation thereafter manufactured said product and applied the trade-mark "Tampax" thereto. The only reference that this witness made to appellee was the statement that in 1935 he sold to it his patent, as above noted.

One Frank M. Holmes, a witness for appellee, testified that he had been acquainted with the product known as "Tampax" since not later than June, 1931; he further testified as follows:

> Q7. Mr. Holmes, did you later become interested in the commercial exploitation of the product Tampax?
> A7. I did.
> Q8. How and under what circumstances?
> A8. About the first of September, 1931, Mr. Hildebrand came to my office with a view to forming a company for the manufacture and sale of the product Tampax.
> Q9. To your knowledge did Mr. Hildebrand at that time have a contract with Dr. Haas?
> A9. He had a license agreement for the manufacture and sale of Tampax, issued by Dr. Haas to him.
> Q10. Did you and Mr. Hildebrand and other people later organize a corporation to handle Tampax?
> A10. Yes, we immediately made plans to form such a company with a view of securing the necessary finances, and on December 11, 1931, the company was actually incorporated in the State of Colorado under the name of Tampax, Inc.
> Q11. What office did you hold in the corporation Tampax, Inc.?
> A11. I was a director and secretary, and was one of the incorporators of the company.
> Q12. Did Tampax, Inc. secure from Mr. Hildebrand the license agreement which he had with Dr. Haas?
> A12. Yes, the license agreement held by Mr. Hildebrand was transferred to Tampax, Inc., with the consent of Dr. Earle C. Haas.
> Q13. Did that transfer also include the trade-mark "Tampax" and the goodwill of the business?
> A13. It did.
> Q14. How long was Tampax, Inc. in business operating under the license agreement between your corporation and Dr. Haas?
> A14. We operated under that license agreement until the license agreement was released to the Tampax Sales Corporation on January 2, 1934.

The only reference in said testimony or in any testimony on behalf of appellee respecting appellee's ownership of the trade-mark "Tampax" is the last answer above quoted, from which it appears that the license agreement between Tampax, Inc. and the witness Dr. Haas was released on January 2, 1934, to Tampax Sales Corporation. As hereinbefore stated, Dr. Haas testified that at the time he licensed Hildebrand to manufacture and sell his product he also transferred the ownership of the trade-mark and the goodwill of his business in Tampax. It does not appear whether such license and transfer was in writing, but, according to the witness, Hildebrand became the absolute owner of the trade-mark through the transfer of the business and goodwill of the business to him, together with a license to manufacture and sell the product upon which the mark was applied. The said Holmes testified that Tampax, Inc. not only secured a transfer of the license agreement between Hildebrand and Dr. Haas, with the consent of the latter, but that the transfer also included the trade-mark and goodwill of the business owned by Hildebrand. There is no evidence that Tampax, Inc. ever sold to appellee its business and goodwill, insofar as it related to the product upon which the mark "Tampax" was applied.

Clearly a release of a license agreement would not of itself operate as a sale and transfer of any business and goodwill of Tampax, Inc. We may of course surmise that, Tampax, Inc., having released to the Tampax Sales Corporation the license to manufacture and sell the patented product to which the mark "Tampax" was applied, in the very nature of things there would be a sale and transfer of the business of Tampax, Inc., in connection with such release, but mere surmise cannot take the place of proof.

There is no evidence whatever, in so much of the record as is proper to be considered, of any assignment to appellee of registration No. 294,959.

We think it proper to observe in this connection that none of the counsel appearing for appellee in this court participated in the taking of the testimony in behalf of appellee.

Upon the record before us, we are compelled to hold that appellee has not established ownership of the registration of said mark "Tampax", registration No. 294,959, or any ownership of said mark; that its first use of said mark was in January, 1934, while the evidence on behalf of appellant clearly establishes the use by her of the mark "Tampad" as a trade-mark upon her product at least as early as the fall of 1932. Whether, under the evidence, she is entitled to any earlier date it is unnecessary here to determine.

It is our conclusion that appellee has failed to establish facts sufficient to sustain its petition for cancellation, and the decision of the Commissioner of Patents is reversed.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,385,537, G. Goudis, Means for uncurling films or strips, D. C., N. D. Ill., E. Div., Doc. 14277, *G. Goudis* v. *Inland Steel Co.* Dismissed on motion of defendant Dec. 21, 1938.

1,406,148, J. E. Brandenberger, Band of cellulosic material, D. C., N. D. Ill., E. Div., Doc. 16198, *E. I. du Pont de Nemours & Co.* v. *Lustro Ribbon Co., Inc.* Consent decree finding claims 1, 2, 3, 5, and 6 valid and infringed, injunction Jan. 31, 1939.

1,522,802, F. L. Buff, Oil burner, D. C. Kans. (Wichita), Doc. 990–N, *F. L. Buff et al.* v. *J. G. Paup et al.* Dismissed without prejudice Mar. 15, 1939.

1,611,767, E. D. Misner, Drive mechanism for washing machines, D. C., E. D. Mich. (Detroit), Doc. 8479, *Universal Devices, Inc.*, v. *The Ernst Kern Co.* Consent decree for plaintiff Mar. 27, 1939.

1,676,860, E. L. Green, Turning guide for fishing tools, filed Mar. 27, 1939, D. C., S. D. Tex. (Houston), Doc. 101, *E. L. Green et al.* v. *Me-Tex Supply Co. et al.*

1,771,590, L. C. Strong, Motion picture change-over device, D. C., N. D. Ill., E. Div., Doc. 15925, *L. D. Strong* v. *Balaban & Katz Corp.* Dismissed on stipulation Jan. 4, 1939.

1,820,214, S. W. Borden, Meter for measuring ground resistance, D. C., N. D. Ill., E. Div., Doc. 15656, *S. W. Borden* v. *C. D. Stewart et al.* By stipulation, dismissed without prejudice Jan. 25, 1939.

1,864,384, R. Ware, Piston, C. C. A., 3d Cir., Doc. 6650, *R. Ware* v. *The Pratt & Whitney Aircraft Co. et al.* Decree affirmed Mar. 27, 1939.

1,890,421, F. A. Talbot, Non-refillable receptacle, C. C. A., 3d Cir., Doc. 6863, *F. A. Talbot et al.* v. *Quaker State Oil Refining Co.* Decree affirmed Mar. 15, 1939.

1,893,608, F. C. Atwood, Casein solution and method of making same, filed Mar. 29, 1939, D. C., E. D. N. Y., Doc. 300, *Atlantic Research Associates, Inc.*, v. *Atlantic Calsomine Co., Inc.*

1,908,291, H. J. Goss, Machine for assembling strip section and box blanks, D. C. Mass., Doc. E 3985, *International Paper Box Machine Co.* v. *Boston Envelope Co.* Consent decree dismissing bill without prejudice Jan. 10, 1939.

1,920,217, 1,996,175, N. C. Schellenger, Rheostat, D. C., W. D. Pa., Doc. E 3170, *Chicago Telephone Supply Co.* v. *Stackpole Carbon Co.* Opinion: Claims 1, 2, 7, and 8 of 1,920,217 held valid and infringed, claims 4, 14, 17, 19, and 20 of 1,996,175 held invalid but, if valid, infringed (notice Apr. 1, 1939).

1,922,291, A. Hargraves, Balloon tire, D. C., N. D. Ill., E. Div., Doc. 16064, *Firestone Tire & Rubber Co. et al.* v. *American Tire & Supply Co.* Dismissed on stipulation Mar. 31, 1939.

1,931,297, F. Reiser, Embroidery frame, D. C., S. D. N. Y., Doc. 2/134, *F. Reiser et al.* v. *Brilliant Embroideries, Inc.* Consent order of discontinuance (notice Mar. 29, 1939).

1,940,639, L. J. White, Prison locking system, D. C., N. D. Ill., E. Div., Doc. 15845, *Southern Prison Co.* v. *Great Lakes Construction Co. et al.* Dismissed without prejudice Feb. 6, 1939.

1,948,019, G. K. Ballentine, Clothes hanger holder and bag, D. C., S. D. N. Y., Doc. E 87/120, *D. Mesibov* v. *G. K. Ballentine et al.* Consent judgment dismissing bill, injunction granted to Ballentine on counterclaim (notice Mar. 29, 1939).

1,982,164, G. A. Hoener, Bending machine, filed Mar. 29, 1939, D. C., E. D. Mich., S. Div., Doc. 899, *G. A. Hoener* v. *Motor Products Corp.*

1,984,916, G. E. Bullock, Velocipede frame construction, filed Mar. 28, 1939, D. C., N. D. Ohio, E. Div., Doc. 19777, *The E. C. Brown Co.* v. *The Murray Ohio Mfg. Co.*

1,996,175. (See 1,920,217.)

2,001,152, G. W. Olney, Stoker for furnace, C. C. A., 8th Cir., Doc. 11310, *G. W. Olney et al.* v. *William Bros. Boiler & Mfg. Co.* Appeal from lower court dismissed Mar. 25, 1939. Doc. 11311, *G. W. Olney et al.* v. *American Crystal Sugar Co.* Decree as above.

2,004,820, R. F. McClenathan, Shoe pressing machine, D. C., N. D. Ill., E. Div., Doc. 15825, *Lamac Process Co.* v. *Santo Domine et al.* Patent adjudged valid and infringed, injunction Dec. 21, 1939.

2,012,846, M. T. Bentzen, Multiple outlet spout, appeal filed Mar. 29, 1939, C. C. A., 8th Cir., Doc. 11464, *General Metalware Co.* v. *W. L. Nelson (Broadway Hardware).*

2,016,168, D. M. Clark, Elastic fabric, filed Apr. 1, 1939, D. C. R. I., Doc. 19, *David Clark Co., Inc.*, v. *Ludifabrics, Inc.*

2,065,659, A. V. Cullen, Fastening method and means, filed Mar. 22, 1939, D. C., N. D. Ill., E. Div., Doc. 446, *The Dodge Chemical Co., Inc., et al.* v. *S. Hanson et al.*

2,082,585, E. H. Maguire, Method of producing receptacles for accessories, D. C., S. D. N. Y., Doc. E 85/238, *Maguire Bros. Brush Co., Inc.*, v. *R. Herrman (Heinrich, Herrmann & Weiss).* Consent decree for plaintiff (notice Mar. 27, 1939).

2,132,826, J. E. Ludwig, Spray booth, filed Mar. 30, 1939, D. C., E. D. Mich., S. Div., Doc. 907, *Newcomb David Co., Inc.*, v. *Binks Mfg. Co.*

Re. 16,548, J. Waddell, Storage-battery cell, D. C., W. D. N. Y., Doc. 2169, *Kathanode Corp. et al.* v. *U. S. L. Battery Corp.* Dismissed without prejudice on consent Mar. 25, 1939.

Re. 19,092, V. R. Despard, Electric wiring apparatus, D. C., N. D. Ill., E. Div., Doc. 15664, *Pass & Seymour, Inc.*, v. *Leviton Mfg. Co., Inc.* Dismissed without prejudice Mar. 6, 1939.

Des. 95,041, B. F. Heyer, Combined charging and testing apparatus and stock stand, D. C. Mich. (Grand Rapids), Doc. 2813, *B. F. Heyer* v. *Allen Electric & Equipment Co. et al.* Dismissed Mar. 30, 1939.

Des. 100,334, C. O. Musser, Marimba, D. C., N. D. Ill., E. Div., Doc. 16120, *J. C. Deagan, Inc.*, v. *Ludwig & Ludwig, Inc.* Dismissed without prejudice, on stipulation Dec. 9, 1938.

Des. 104,111, L. A. Koch, Jr., Automobile exhaust shrouds, D. C., N. D. Ill., E. Div., Doc. 15937, *Koch Mfg. Co., Inc., et al.* v. *Strauss Stores Corp.* Dismissed without prejudice Feb. 24, 1939. Doc. 15938, *Koch Mfg. Co., Inc., et al.* v. *Monarch Tool & Machinery Co.* Dismissed for want of equity Oct. 5, 1938. Notice of appeal filed Oct. 7, 1938, but not perfected.

Des. 104,970, A. E. Levy, Dress, D. C., S. D. N. Y., Doc. E 85/307, *Debi-Rose, Inc.*, v. *Hartman & Richards, Inc.* Consent order of discontinuance (notice Mar. 30, 1939).

Des. 111,402, G. F. Erhard, Curtain, filed Mar. 30, 1939, D. C., S. D. N. Y., Doc. 3/170, *G. F. Erhard et al.* v. *Kaufman Dept. Stores, Inc.*

Des. 112,553, L. Hafler, Blouse, D. C., S. D. N. Y., Doc. 2/357, *S. S. Rice, Jr.*, v. *Mitchell & Weber, Inc.* Bill and counterclaim dismissed (notice Mar. 30, 1939).

T. M. 283,831, Dr. Miles Medical Co., Anti-acid effervescent preparations, D. C., N. D. Ill., E. Div., Doc. 15771, *Miles Laboratories, Inc.*, v. *Continental Sales Corp. et al.* (Defendants enjoined Nov. 1, 1938.)

T. M. 313,768, Esquire Publishing Co., Monthly publication, D. C., N. D. Ill., E. Div., Doc. 215, *Esquire-Coronet, Inc.*, v. *M. Schreiber et al.* Consent decree finding trade-mark valid, injunction Mar. 22, 1939.

Trade-Mark Registrations Canceled

201,981. Polish, paste, and dressing for shoes. Gold Dust Corporation, Jersey City, N. J. Registered August 11, 1925. Canceled May 26, 1939.

322,208. Distilled alcoholic liquors. The Old Quaker Company, Lawrenceburg, Ind. Registered February 26, 1935. Canceled May 26, 1939.

338,635. Certain named jewelry. Young's, Inc., Providence, R. I. Registered September 8, 1936. Canceled June 2, 1939.

339,745. Blue cheese. P. & S. Plum, Ltd., Copenhagen, Denmark. Registered October 20, 1936. Canceled May 26, 1939.

347,688. Certain named jewelry. Young's, Inc., Providence, R. I. Registered June 29, 1937. Canceled June 2, 1939.

364,160. Certain named boys' clothing. Lee-Wald Garment Company, Kansas City, Mo. Registered January 17, 1939. Canceled June 2, 1939.

Changes in Classification

Order No. 3,478, June 7, 1939, directs:

In *class 154, Laminated Fabric and Analogous Manufactures* (Division 52), abolish the following subclass with its definition:

45.5 **Packing.**

The patents formerly contained in this subclass have been placed for the most part in class 154, subclass 33.1, and in new class 288, Joint Packings, established in this order.

In *class 154, Laminated Fabric and Analogous Manufactures* (Division 56), establish the following subclass and definition:

33.1 **Joint packing making.**

33.1. The making of joint packings for sealing between juxtaposed surfaces, not classifiable in other arts.

(1) **Search this class,** subclass 2, for processes of making rubber window channels.

(2) Note.—For laminated and analogous packings per se, search classes 20, WOODEN BUILDINGS, subclasses 69 and 74; 94, ROADS AND PAVEMENTS, subclasses 17 and 18; 166, WELLS, subclass 10 and indented subclasses; 251, VALVES, subclasses 159 and indented subclasses and 167; 280, LAND VEHICLES, subclass 153.5; 288, JOINT PACKINGS, appropriate subclasses; and 309, MACHINE ELEMENTS, CYLINDERS AND PISTONS, subclass 22 and indented subclasses.

(3) **Search Classes—**
28—TEXTILES.
57—TEXTILES, SPINNING, TWISTING AND TWINING.
96—TEXTILES, BRAIDING, NETTING AND LACE MAKING.
139—TEXTILES, WEAVING.

The patents contained in this subclass have been taken for the most part from class 154, subclass 45.5, abolished in this order, and from subclass 2.

In *class 1, Nailing and Stapling* (Division 11), subclass 2, number the existing note (2) and add:

(1) Note.—See class 288, JOINT PACKINGS, for joint packings per se, especially subclass 29.

In *class 20, Wooden Buildings* (Division 33), subclass 69, add the following note:

Search Class—
288—JOINT PACKINGS, for joint packings per se.

In *class 85, Driven, Headed, and Screw-Threaded Fastenings* (Division 57), subclass 50, cancel the existing note and substitute:

Note.—See class 288, JOINT PACKINGS, for joint packings per se.

In *class 94, Roads and Pavements* (Division 33), subclass 18, add the following note:

Search Class—
288—JOINT PACKINGS, appropriate subclasses.

In *class 106, Plastic Compositions* (Division 38), subclass 7.6, cancel note (3) and substitute:

(3) Note.—See class 288, JOINT PACKINGS, subclass 8, for joint packings per se in which a plastic composition is included.

In *class 154, Laminated Fabric and Analogous Manufactures* (Division 56), subclass 52, in note (1) cancel "subclasses 45.5 and" and substitute *subclass*; and in note (2) add:

288—JOINT PACKINGS, appropriate subclasses.

In *class 215, Bottles and Jars* (Division 58), subclass 40, add the following note:

Note.—See class 288, JOINT PACKINGS, for sealing gaskets per se or stock material limited to such use from which the gasket may be made.

In *class 220, Metallic Receptacles* (Division 40), subclass 46, cancel note (4) and substitute:

(4) Note.—See class 288, JOINT PACKINGS, appropriate subclasses, for joint packings per se.

In *class 251, Valves* (Division 39), in each of subclasses 40, 48, 50, and 103 add the following note:

Note.—See class 288, JOINT PACKINGS, for joint packings per se.

In *class 280, Land Vehicles* (Division 10), subclass 153.5, number the existing note (*1*) and add:

(2) **Search Class—**
288—JOINT PACKINGS, appropriate subclasses.

In *class 285, Pipe Joints or Couplings* (Division 52), in the main class definition, add the following note:

(7) Note.—See class 288, JOINT PACKINGS, for joint packings per se for use in pipe joints or couplings;

in subclasses 63 and 69, cancel note (2) of each, and substitute:

(2) Note.—See class 288, JOINT PACKINGS, subclass 22, for packings having means thereon for use in securing the same to a coupling part;

and in subclass 205, note (5), in the reference to class 288, Joint Packings, cancel "subclass 1" and substitute *appropriate subclasses.*

In *class 286, Packed Shaft or Rod Joints* (Division 52), in the main class definition cancel existing notes (1) and (2) and substitute:

(1) Note.—See class 288, JOINT PACKINGS, appropriate subclasses, for the form and structure of packings as articles and stock material limited to such use from which packing-forms may be cut or made.

(2) Note.—Compare classes 16, MISCELLANEOUS HARDWARE, subclass 2, and 285, PIPE JOINTS OR COUPLINGS, subclass 1;

number note (3) as (4) and add:

(3) Note.—See class 106, PLASTIC COMPOSITIONS, subclasses 7.6 and 8, for anti-friction packing and luting compositions.

In *class 308, Machine Elements, Bearings and Guides* (Division 45), in the main class definition, note (5), in the last line thereof, cancel "subclasses 45.5 and" and substitute *subclass;* in subclass 242, note (5), cancel "subclasses 45.5 and" and substitute *subclass*; and in subclass 243, note (3), cancel the reference to class 154, Laminated Fabric and Analogous Manufactures.

In *class 309, Machine Elements, Cylinders and Pistons* (Division 28), subclass 22, number the existing note (*1*) and add:

(2) **Search Class—**
288—JOINT PACKINGS, appropriate subclasses;

and in subclass 23 cancel the note.

In *class 288, Joint Packings* (Division 52), abolish the existing subclass titles and definitions and establish in lieu thereof the subclasses contained in the new loose leaves now being printed for insertion in the Manual of Classification, and definitions which will appear in Bulletin No. 76, the patents contained in this class having been taken for the most part from old class 288, and from class 154, Laminated Fabric and Analogous Manufactures, subclass 45.5, abolished in this order.

(Note.—Copies of the list and definitions may be seen in the Search Room and in the Classification Division pending publication.)

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS, LABELS, AND PRINTS

RENDERED DURING MAY, 1939

CHICAGO MAIL ORDER COMPANY *v.* H. BOMZE AND BRO., Cancelation No. 3256.

The Chicago Mail Order Company, of Chicago, Ill., filed a petition for cancelation of a registration of H. Bomze and Bro., of Philadelphia, Pa., under the act of 1920, of the term "June Arden" as a trade-mark for misses' coats, suits, and dresses, alleging that it had previously used "as a trade-mark" the name "Jane Alden" in connection with both ladies' and misses' coats, dresses, etc.

In a decision rendered May 4, 1939 (163 Ms. Dec. 273, 41 U. S. P. Q. 553), dismissing the petition for cancellation, *Assistant Commissioner Frazer*, after stating that no other use being pleaded trade-mark use was thus required to be established, said:

"I have examined the record with painstaking care, but find no evidence of such use during or prior to the year immediately preceding respondent's application for registration. In fact it appears quite conclusively that none occurred."

Then, after noting the record showed that "Jane Alden" is the assumed name of a lady who is employed by petitioner as a "stylist" and that she identified herself as "Jane Alden" and that that name was used extensively in advertising and in a lesser degree on petitioner's labels, he said:

"I am unable to agree that printing on labels the notation 'approved by Jane Alden' constitutes trade-mark use of the name 'Jane Alden'. There are two labels in evidence carrying the name without these words, but it does not satisfactorily appear that their use was sufficiently early to entitle them to consideration in this proceeding."

Then, after noting petitioner's argument that a party might be injured by the registration of a mark to another even though he himself could not show strict trade-mark use, he said:

"Under certain circumstances this is doubtless true, but I know of no case in which it has been held that an allegation of strict trade-mark use is supported by proof of use in advertising. The burden rests upon a petitioner to prove the material averments of its pleading, and obviously that burden may not be discharged merely by proving facts not pleaded."

WHITE CAP COMPANY *v.* ALLIED STORES CORPORATION, Opposition No. 16,949.

In a decision rendered May 8, 1939 (163 Ms. Dec. 275, 41 U. S. P. Q. 554), *Assistant Commissioner Frazer* held that Allied Stores Corporation, of Wilmington, Del., also Seattle, Wash., is not entitled to register the term "Whitecap" as a trade-mark since it is in legal effect the name of the petitioner, "White Cap Company", of Chicago, Ill.

In his decision, after noting that the Examiner had held that because the petitioner's name included the word "Company" the registration of the word "Whitecap" did not fall within the prohibition of the second proviso of sec. 5 of the Trade-Mark Act of 1905, the Assistant Commissioner said:

"It has been the uniform practice to ignore such words as 'company', 'incorporated' and 'limited' in corporate names, on the theory that they do not serve to identify any particular corporation." [Citing a number of decisions.]

He then referred to the decision of the Supreme Court in *American Steel Foundries* v. *Robertson*, 269 U. S. 372, where it was held that the word "Simplex" was not the name of "Simplex Electric Heating Company" and said:

"The Court did not intimate, however, that the word 'Company' was an essential part of the name in question; and as was said by a former First Assistant Commissioner in *Gyro Club* v. *Gyro Brush Company*, 156 Ms. D. 725, 10 U. S. P. Q. 141:

"'It is deemed a fair conclusion that had the name of the Simplex Electric Heating Company been merely "Simplex Company", the Court would have held the word "Simplex" not open to registration.'"

He then noted other decisions in which a similar distinction was drawn.

With reference to the argument that the goods of the parties are widely different and opposer has failed to show it would be injured by the proposed registration, he said:

"That damage will be presumed in cases of this character, and that the difference in goods is immaterial, are questions no longer open to argument in the Patent Office in view of the rules laid down in *Feldman* v. *Amos and Andy*, 21 C. C. P. A. 823, 68 F.(2d) 746, and in *The Asbestone Co.* v. *The Philip Carey Manufacturing Co.*, 41 App. D. C. 507. In the latter case it was said:

"'It is not the business which the statute in this particular aims to protect. It is the corporate name, and it is sufficient that possible damage may be inferred from invading the property right which the corporation possesses in its name.'"

He then stated that the applicant's trade-mark constitutes a substantial appropriation of the opposer's name, and said:

"I think 'the rule of the statute, by its own terms, is absolute and the proposed mark must be denied registration without more.' *American Steel Foundries* v. *Robertson*, supra."

A. O. KOLBERG, INC., *v.* ALAMO FRUIT & VEGETABLE EXCHANGE, INC., Opposition No. 17,059.

In a decision rendered May 17, 1939 (163 Ms. Dec. 277, 41 U. S. P. Q. 579), *Assistant Commissioner Frazer* held that the opposition of A. O. Kolberg, Inc., of McAllen, Tex., to the registration of the notation "Better'n Gold" as a trade-mark for fresh citrus fruits, was properly dismissed, but also held that the applicant Alamo Fruit & Vegetable Exchange, Inc., of Alamo, Tex., is not entitled to register said mark.

In his decision, after stating that the mark had been registered in 1927 to Southland Fruit & Vegetable Exchange, Inc., and each of the parties claims ownership as successor to that concern, he said:

"In my opinion neither has succeeded in establishing such claim. Aside from opposer's so-called rebuttal testimony, which the Examiner very properly refused to consider, there is no sufficient proof in the record that Southland Fruit & Vegetable Exchange, Inc., has either assigned or abandoned its registered trade-mark. While I agree with the Examiner that opposer has no rights in the mark as against applicant, I think the registration referred to is a bar to the registration here applied for. *Kelly Liquor Co.* v. *National Brokerage Co.* (C. C. P. A.), 41 U. S. P. Q. 311."

He then referred to the testimony of A. O. Kolberg as a witness for the opposer that he had purchased the "Better'n Gold" trade-mark and the goodwill from the Southland Fruit & Vegetable Exchange, Inc., but no formal transfer was made, and said:

"Section 10 of the act of February 20, 1905, provides that an assignment of a registered trade-mark 'must be by an instrument in writing and duly acknowledged according to the laws of the country or State in which the same is executed'. In the absence of such an assignment Mr. Kolberg was in no position to assert ownership of the mark through purchase from the registrant."

He then referred to the fact of applicant's incorporation with Kolberg as its president and chief stockholder and that the company purchased from Kolberg the labels upon which the mark appeared, and said:

"Considerable other property was also transferred to applicant by Mr. Kolberg, and it is applicant's theory that it acquired the goodwill of his previously operated business, including trade-mark rights. I do not think the record supports that theory, but I am clearly of the opinion that Mr. Kolberg's conduct with respect to this particular mark, and his acquiescence in applicant's use thereof, estopped him to assert rights in the mark adverse to applicant. As opposer claims no rights other than those that may have been derived from Mr. Kolberg, it is equally bound by the estoppel.

"While the opposition was properly dismissed it does not necessarily follow that applicant is entitled to registration. As the record now stands I am convinced that it is not."

LA COMPAGNIE FERMIERE DE L'ETABLISSEMENT THERMAL DE VICHY, SOCIETE ANONYME *v.* CELESTIN, LTD., Oppositions Nos. 16,779 and 16,780.

In a decision rendered May 18, 1939 (163 Ms. Dec. 279, 41 U. S. P. Q. 581), *Assistant Commissioner Frazer* held that an opposition by La Compagnie Fermiere de l'Etablissement Thermal de Vichy, Societe Anonyme, of Paris, France, involving the registrability of a trade-mark for brandy, cognac, and cognac brandy, which featured the disclaimed word "Celestin's" was properly dismissed when it appeared that the opposition was based on the registration of the term "Celestins" as a trade-mark for natural mineral water.

In his decision the Assistant Commissioner said:

"The only question presented for determination is whether or not the goods of the parties are merchandise of the same descriptive properties within the meaning of the Trade-Mark Act. The Examiner was of the opinion that they are not, and upon the record before me I am constrained to agree with his conclusion."

Then, after noting that the opposer's rely to a considerable extent on the ruling in the case of *White Rock Mineral Springs Co.* v. *Neurad*, 478 O. G. 717, 33 U. S. P. Q. 163, where the goods involved were mineral water, ginger ale, and other carbonated beverages on one hand and whisky on the other, and noting in that decision that it was said:

"It is a matter of common knowledge that both ginger ale and carbonated water are extensively used with whisky, and that all are sold in similar containers, by the same dealers, to the same class of purchasers."

he said:

"It will be observed that mineral water was not mentioned, the opposition having been sustained on the ground that ginger ale and carbonated water were of the same descriptive properties as whisky. In the instant case no testimony was taken, and I do not think the quoted language with respect to 'common knowledge' is applicable to the present opposer's goods. So far as I know mineral water is not used with cognac or brandy, nor do I feel free to assume that it is sold in the same stores or to the same class of purchasers. If so, these were facts to be proved, and the burden of proof rested upon opposer. Having failed to discharge such burden opposer must abide the consequences."

FLORENCE N. LEWIS *v.* NEW WAY HOSIERY COMPANY, Opposition No. 16,946.

In a decision rendered may 19, 1939 (163 Ms. Dec. 281, 41 U. S. P. Q. 624), *Assistant Commissioner Frazer* held that the New Way Hosiery Company, of Philadelphia, Pa., is not entitled to register the term "Elaine Arden" displayed in association with the outline of a female figure and certain descriptive words, as a trade-mark for hosiery.

In his decision the Assistant Commissioner stated that the mark relied upon by opposer is

"the name 'Elizabeth Arden', which the proofs show to have been used since a date earlier than applicant's date of first use, in connection with women's lingerie and negligees. That these goods have the same descriptive properties as women's hosiery is clear beyond doubt."

He then noted that applicant's mark includes other features, none of which may be disregarded, and said:

"But applicant's goods would necessarily be known and called for as 'Elaine Arden' hosiery; and the similarity of that name to opposer's trade-mark would, I think, be reasonably likely to cause confusion, particularly in view of the close relationship between the goods with which the respective marks are used."

With reference to the name under which opposer does business, he said:

"Opposer does business under the name 'Elizabeth Arden', and one of the Examiner's reasons for sustaining the opposition was that the registration of applicant's mark would thus violate the so-called name clause of the Trade-Mark Act. I am unable to agree with this ruling, first because it finds no sufficient basis in the notice of opposition, and secondly because I do not think that 'Elaine Arden' is the name of Elizabeth Arden. It may be that the name of applicant's mark lacks distinctive display, but that question was not considered by the Examiner and need not be passed upon here."

ELIZABETH ARDEN, INC., *v.* NEW WAY HOSIERY COMPANY, Opposition No. 16,945.

In a decision rendered May 19, 1939 (163 Ms. Dec. 280, 41 U. S. P. Q. 624), *Assistant Commissioner Frazer* held that the use by Elizabeth Arden, Inc., of New York, N. Y., of the term "Elizabeth Arden" as a trade-mark for various so-called beauty preparations was no ground for refusing registration to the New Way Hosiery Company, of Philadelphia, Pa., of a mark including the name "Elaine Arden" as applied to hosiery.

In his decision the Assistant Commissioner said:

"It may well be that the use of the two names 'Elizabeth Arden' and 'Elaine Arden' as trade-marks on merchandise of the same descriptive properties would be likely to cause confusion, but it does not follow that 'Elaine Arden' is opposer's corporate name. Obviously it is not.

"That the goods with which the respective marks are used are of different descriptive properties I have no doubt; nor is the question open to argument in the Patent Office, since it was so ruled by the Court of Customs and Patent Appeals in *House of Tre-Jur, Inc.*, v. *Combine Hosiery Corporation*, 18 C. C. P. A. 1466, 49 Fed.(2d) 1031."

Then with reference to an argument that the record establishes that opposer in addition to selling beauty preparations sells ladies' hand bags as to which there can be no doubt that the goods are of the same descriptive properties as those of the applicant, he said:

"This raises a question not presented in the notice of opposition, which was doubtless the reason that it was 'completely ignored', as stated in the brief, by the Examiner of Interferences. For the same reason I must decline to consider it in disposing of the appeal."

NASH KELVINATOR CORPORATION *v.* JOEL B. CLARK, Opposition No. 17,330.

In a decision rendered May 22, 1939 (163 Ms. Dec. 283, 41 U. S. P. Q. 625), *Assistant Commissioner Frazer* held that Joel B. Clark, of Buffalo, N. Y., is entitled to register the notation "Kralinator" as a trade-mark for an oil filter, notwithstanding the opposer's ownership of the trade-mark "Kelvinator" applied to refrigerating apparatus.

After stating that opposer contended that the goods were of the same descriptive properties and noting that a stipulation had been entered into between the parties as to the facts, the Assistant Commissioner said:

"It does not appear from the stipulation that opposer's oil filtering devices bear its trade-mark, and at the oral argument on appeal it was expressly admitted by counsel for opposer that they do not. The question, therefore, is whether or not oil filters possess the same descriptive properties as refrigerators equipped with oil filters. I think the answer is to be found in *All-American Mohawk Corporation* v. *Rollinson*, 22 C. C. P. A. 1301, 77 Fed.(2d) 926, where it was held by the Court of Customs and Patent Appeals that relays and thermostats 'suitable for use in electric refrigerators' were not of the same descriptive properties as electric refrigerators."

Then, after stating that he agreed with the Examiner that an oil filter would seem to be a relatively minor part of a refrigerating apparatus and that the decision cited affords ample authority for the ruling that the goods are of different descriptive properties, he said:

"I do not agree with the conclusion stated in his decision that even though such goods should be held to possess the same descriptive properties 'the cumulative effect of the specific differences in these goods and the differences in the mark "Kelvinator" used by the opposer and "Kralinator" which applicant seeks to register would be sufficient to obviate any likelihood of confusion in trade'. Were the goods of the same descriptive properties I should have no hesitancy in holding that the marks are confusingly similar." [Citing *General Mills, Inc.*, v. *Freed*, 24 C. C. P. A. 1171, 89 Fed.(2d) 664.]

EX PARTE NATIONAL SILK HOSIERY MILLS, INC., Serial No. 398,015.

In a decision rendered May 22, 1938 (163 Ms. Dec. 282, 41 U. S. P. Q. 626), *Assistant Commissioner Frazer* held that the notation "Numeral Crepe" is not descriptive of hosiery and that applicant is entitled to have that mark registered for its goods.

In his decision the Assistant Commissioner said:

"The Examiner's position is that because it is common practice to indicate by numerals the size of thread used in the construction of crepe hosiery the word 'numeral', in association with an appropriate number, would serve merely to give 'desired information to the customer'. Applicant, however, is not seeking to register any particular number, and the word 'numeral' does not appear to be one that would normally be used in connection with goods of this character. While it is doubtless highly suggestive I do not consider it to be objectionably descriptive."

He then said:

"The Examiner further held that 'since the word "Crepe" appears as part of applicant's mark, applicant's goods should be described as to whether or not they are genuine crepe hosiery, in view of the rulings of the Federal Trade Commission'. This requirement is approved, and the application should be amended accordingly before publication."

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 27, 1939

[VOL. 503. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 405,534. CLARENCE P. WALKER, doing business as Luckybird Aviaries, Lakewood, Ohio. Filed Apr. 20, 1938.

LUCKYBIRD

No claim is made to the word "Bird" apart from the mark.

For Cage Birds.

Claims use since Mar. 1, 1936.

Ser. No. 417,880. J. LICHTMAN & SONS, Newark, N. J. Filed Apr. 5, 1939.

"BULLUC BUFFALO"

Applicant disclaims the word "Buffalo" apart from the mark.

For Leather.

Claims use since Feb. 1, 1939.

Ser. No. 418,107. KAHN BROS. HAY & GRAIN CO., Chicago, Ill. Filed Apr. 11, 1939.

HILLSIDE

For Grass Seeds.

Claims use since Jan. 1, 1935.

Ser. No. 418,604. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Apr. 22, 1939.

MELOCOL

For Synthetic Resins Sold in Solid, Liquid, or Powdered Form for Industrial Purposes, and Molding or Casting Compositions.

Claims use since Nov. 5, 1937.

Ser. No. 418,605. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Apr. 22, 1939.

MELOPAS

For Synthetic Resins Sold in Solid, Liquid, or Powdered Form for Industrial Purposes, and Molding or Casting Compositions.

Claims use since Nov. 5, 1937.

CLASS 2

Receptacles

Ser. No. 408,874. CALIFORNIA CREMATORIUM, Oakland, Calif. Filed July 25, 1938.

CHAPEL OF THE CHIMES

For Urns for the Ashes of the Dead.

Claims use since May 1, 1929.

Ser. No. 417,983. SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Filed Apr. 7, 1939.

Purity

For Paper Plates and Cups.

Claims use since Feb. 1, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 404,738. A-M-R CHEMICAL COMPANY, INC., Brooklyn, N. Y. Filed Apr. 1, 1938.

A-M-R



For Glass Cleaner and Polish, Polishing Powder for Polishing Glassy Surfaces, and Cleaning Compounds for Clothes.

Claims use since Mar. 1, 1930.

Ser. No. 418,355. THE NATIONAL BROOM MFG. CO., Pueblo, Colo. Filed Apr. 17, 1939.

D and A

For Dry Cleaning Preparation, a Glass Cleaner and a Cleaner for Paint and Varnished Woodwork, Composition Floors, Linoleum, and Tile.
Claims use since Jan. 1, 1939.

Ser. No. 418,876. INDUSTRIAL SOAP CO., St. Louis, Mo. Filed Apr. 29, 1939.

ZYFO

For Powdered Toilet Soap, Metal Polish, Sweeping Compound, and Oil Soap.
Claims use since Dec. 31, 1938.

CLASS 5

Adhesives

Ser. No. 413,608. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y., a corporation of Delaware. Filed Dec. 8, 1938.

CURBAY

For Core Binders, Road Binders, Washes, and Adhesives of Various Kinds—Namely, Those Produced From Concentrated Distillery Waste.
Claims use since Feb. 6, 1924.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 407,552. LUITPOLD-WERK CHEMISCH-PHARMACEUTISCHE FABRIK, Munich, Germany. Filed June 16, 1938.

Combizym

For Enzyme Preparations for the Treatment and Prevention of Diseases of the Digestive Apparatus.
Claims use since October, 1937.

Ser. No. 409,206. PHARMAZEUTISCHES LABORATORIUM GRIESS & Co., Dortmund, Germany. Filed Aug. 3, 1938.

Lagrida

For Suppositories, Salve, and Pills for Use in the Treatment of Hemorrhoids, and Disinfectants.
Claims use since Dec. 30, 1937.

Ser. No. 409,391. DEUTSCHE GOLD-UND SILBER-SCHEIDEANSTALT (formerly Roessler), Frankfort-on-the-Main, Germany. Filed Aug. 9, 1938.

DURFERRIT · HÄRTEMITTEL

The word "Härtemittel" is disclaimed apart from the mark.
For Quenching Products—Namely, Quenching Oils, Soap Solutions, and Aqueous Salt Solutions for Use in Metallurgical Processes.
Claims use since 1929.

Ser. No. 409,982. ULTRA CHEMICAL WORKS, INC., Paterson, N. J. Filed Aug. 25, 1938.

VEL-GLO

For Hair Shampoo.
Claims use since Aug. 15, 1938.

Ser. No. 410,735. JOEL A. HILLECK, doing business as No-De-Ka Co., Los Angeles, Calif. Filed Sept. 19, 1938.

No-de-Ka

The term "No-De-Ka" is disclaimed apart from the mark. The drawing is lined for blue.
For Tooth Powder.
Claims use since Aug. 6, 1925.

Ser. No. 411,000. LONZA ELEKTRIZITATSWERKE UND CHEMISCHE FABRIKEN AKTIENGESELLSCHAFT, Gampel and Basel, Switzerland. Filed Sept. 26, 1938.

Meta

For Insecticides, Disinfectants, and Vermin and Weed Destroyers.
Claims use since July, 1937.

Ser. No. 411,780. VERNON ISBELL, Fort Worth, Tex. Filed Oct. 19, 1938.

OCEAN OIL

The word "Oil" is disclaimed apart from the mark.
For Permanent Wave Solutions.
Claims use since June 1, 1938.

Ser. No. 412,025. JOHN CHIPBURN, Arnold, Md. Filed Oct. 25, 1938.

APPLE-LINE

For Liniment for Colds, Sprains, Bruises, Poison Oak, Poison Ivy, and Other Minor Ailments.
Claims use since Aug. 15, 1938.

Ser. No. 412,410. ESTATE OF HOWARD A. KINGDON, DECEASED, doing business as Dr. J. H. Dye Medical Institute, Buffalo, N. Y. Filed Nov. 5, 1938.

MITCHELLA

The word "Mitchella" is disclaimed apart from the mark.
For Vegetable Compounds Used in the Treatment of Diseases of Women, Vaginal Washes, Laxative Pellets, Vaginal Cones, Herbal Pills to Stimulate the Flow of Urine, Aperient and Stomachic Tablets, and Sedative Tablets.
Claims use since 1880.

Ser. No. 413,827. HEALTHAIDS, INC. OF NEW JERSEY, Newark, N. J. Filed Dec. 14, 1938.

doggie-do

For Preparation for Use as a Food Auxiliary and Constipation Corrective for Dogs, in the Nature of a Non-Medicinal Laxative.
Claims use since Nov. 30, 1938.

Ser. No. 414,470. EUGENE N. RICHARDSON, Chicago, Ill. Filed Jan. 3, 1939.

ENR

For Solution and a Salve for Skin Treatment, More Particularly Eczema.
Claims use since June 1, 1938.

Ser. No. 414,949. HAROLD HAIN, doing business as Hain Pure Food Company, Los Angeles, Calif. Filed Jan. 18, 1939.

GAR-OL

For Gelatine Capsules Containing an Oil Cold-Pressed From Garlic, To Be Used by Oral Administration Where Medication of Oil of Garlic is Indicated.
Claims use since July 6, 1938.

Ser. No. 415,002. M. NEAL GORDON AND SAMUEL C. JOHNSON, Uniontown, Pa. Filed Jan. 19, 1939.

GAMBINE

For Ointment or Liquid for External Use in the Treatment of Skin Disorders.
Claims use since Nov. 17, 1937.

Ser. No. 415,506. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Feb. 2, 1939. Under 10-year proviso.

MECHLING'S

For Caustic Alkali Preparation Suitable for Cleaning Drain Pipes, Removing Paint, Varnish, and Shellac, and Other Household and Industrial Uses.
Claims use since 1892.

Ser. No. 415,651. HUSSMAN-HOLMES COMPANY, Los Angeles, Calif. Filed Feb. 6, 1939.

GEOMAR COMPOUND

The name "Harry L. Hussman" is the facsimile signature of a member of the firm. The word "Compound" is disclaimed apart from the mark.
For Concentrated Vitamin and Mineral Food Supplement.
Claims use since Oct. 19, 1938.

Ser. No. 416,651. LABORATORI CHIMICI CANDIOLI SOC. AN., Livorno, Italy. Filed Mar. 3, 1939.

MOM

For Insecticides in Solid, Liquid, Paste, and/or Powder Form.
Claims use since May, 1923.

Ser. No. 416,743. ALLEN H. RABIN, doing business as The Rabin Company, Los Angeles, Calif. Filed Mar. 6, 1939.

"Hollywood Extra"

The name "Hollywood" is disclaimed except as shown.
For Toilet Preparations—Namely, Cold Cream, Brilliantine, Hair Cream, Hair Oil, and Oil Shampoo.
Claims use since Jan. 1, 1935.

Ser. No. 417,129. FLORA LADERBERG, Baltimore, Md. Filed Mar. 16, 1939.

Ber-Lee

The mark consists of the hyphenated word "Ber-Lee" and applicant disclaims the word "Lee" apart from the mark.
For Liquid Preparation for Mending Broken Fingernails.
Claims use since Dec. 5, 1938.

Ser. No. 417,242. THE WARREN-TEED PRODUCTS CO., Columbus, Ohio. Filed Mar. 18, 1939.

THISAL

For Ointment for Use in the Treatment of Athlete's Foot, Ringworm, and Chronic Ulcerated Conditions.
Claims use since Dec. 24, 1931.

Ser. No. 417,321. HELEN ALLEN, New York, N. Y. Filed Mar. 21, 1939.

Kissy

For Lip Stick.
Claims use since April, 1938.

Ser. No. 417,604. AYERST, MCKENNA & HARRISON, LIMITED, Montreal, Quebec, Canada. Filed Mar. 29, 1939.

ESTROBENE

For Oestrogenic Hormone Preparation for Use in the Treatment of Menopausal and Related Conditions.
Claims use since Feb. 10, 1939.

Ser. No. 418,978. NILSA MATTHEWS, INC., New York, N. Y. Filed May 2, 1939.

vera-creme

The word "Creme" is disclaimed apart from the mark.
For Skin Tissue Cream.
Claims use since Apr. 11, 1939.

Ser. No. 418,979. PARFUMS VARRÉ, INC., New York, N. Y. Filed May 2, 1939.

Perfumates by Varré

For Perfumes.
Claims use since Sept. 28, 1938.

Ser. No. 418,991. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed May 2, 1939.

PERANDRENAL

For Male Sexual Hormone.
Claims use since Apr. 5, 1939.

Ser. No. 419,021. THE KNOX COMPANY, Los Angeles, Calif. Filed May 3, 1939.

Arcito

For Medicinal Preparations Having Appetizing, Reconstituent, Stimulating, and Tonic Properties and Indicated in and for the Treatment of Physical Debility, Homophobia, Hyposexualism, Emotional Misanthropy, and Presenility in Women.
Claims use since Mar. 1, 1938.

Ser. No. 419,440. NYAL COMPANY, Detroit, Mich. Filed May 15, 1939.

URGE-LAX

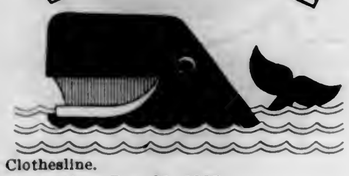
For Laxative and Cathartic Preparation.
Claims use since May 8, 1939.

CLASS 7

Cordage

Ser. No. 419,043. SAMSON CORDAGE WORKS, Boston, Mass. Filed May 3, 1939.

WHALE



For Clothesline.
Claims use since Dec. 21, 1937.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 418,448. H. NEGBAUR & CO., INC., New York, N. Y. Filed Apr. 19, 1939.

TAP-A-PAC

For Cigarette Cases not Made of Precious Metal.
Claims use since Mar. 25, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 417,941. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y. Filed Apr. 6, 1939.



The words "Speeds The World's Business" are disclaimed apart from the mark.
For Typewriter Ribbon and Carbon Paper.
Claims use since June 1, 1936.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 417,103. SNELL-JONES TACK CORP., Brockton, Mass. Filed Mar. 15, 1939.



The drawing is lined for orange. No exclusive right is made to the representation of the goods. No claim is made to the words "Sterilized Tacks" apart from the combination shown.
For Tacks and Nails.
Claims use since January, 1929.

Ser. No. 417,269. DETROIT HARVESTER COMPANY, Toledo, Ohio. Filed Mar. 20, 1939.

QUICKIES

For Nut Like Fastening Clips for Engaging Plain or Threaded Shanks Such as Bolts and Rivets.
Claims use since June, 1936.

Ser. No. 418,430. CENTURY METALCRAFT CORPORATION, Chicago, Ill. Filed Apr. 19, 1939.

GUARDIAN

For Aluminum Cooking and Serving Hollow Ware.
Claims use since Dec. 30, 1938.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 418,356. NEW PROCESS METALS CORPORATION, Newark, N. J. Filed Apr. 17, 1939.



The trade-mark comprises a helical band surrounding a piece of sparking metal, the turns of the helix being spaced to reveal by contrast the surface of the sparking metal. Without waiver of common law rights and solely for the purpose of obtaining trade-mark registration under the act of 1905 as amended, applicant disclaims apart from the trade-mark as shown in the drawing, the exclusive right to use the representation of the piece of sparking metal.
For Pyrophoric or Sparking Metal Alloys.
Claims use since Mar. 4, 1939.

Ser. No. 418,529. NEW PROCESS METALS CORPORATION, Newark, N. J. Filed Apr. 21, 1939.



All the wording appearing on the drawing, except the word "Liberty", is disclaimed apart from the mark as shown.

For Pyrophoric or Sparking Metal Alloys.
Claims use since Apr. 5, 1939.

Ser. No. 418,981. PARKER RUST PROOF COMPANY, Detroit, Mich. Filed May 2, 1939.

STEELBOND

For Steel Sheets Which Have Been Chemically Treated to Obtain upon the Surfaces Thereof Corrosion Resistant Paint Holding Coatings.
Claims use since Apr. 29, 1939.

CLASS 15

Oils and Greases

Ser. No. 400,713. WASATCH OIL REFINING COMPANY, Woods Cross and Salt Lake City, Utah. Filed Dec. 10, 1937.



No claim is made to the name "Wasatch" apart from the mark.

For Gasoline, Lubricating Oil, and Grease.
Claims use since Aug. 1, 1933.

Ser. No. 417,422. OIL WORKERS INTERNATIONAL UNION, Fort Worth, Tex. Filed Mar. 22, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



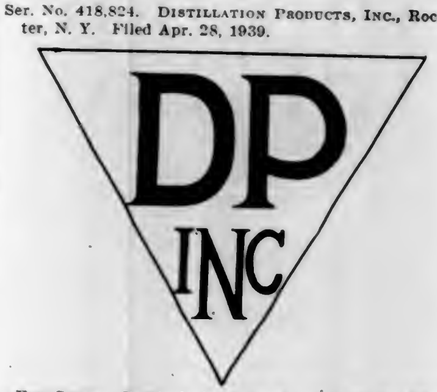
For Gasoline, Motor Oils, Lubricating Greases, Kerosene, Fuel Oil, Waxes, Paraffin.
Claims use since July, 1922.

Ser. No. 418,751. SINCLAIR REFINING COMPANY, New York, N. Y. Filed Apr. 26, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

TENOL

For Lubricating Oil.
Claims use since Aug. 15, 1936.

Ser. No. 418,824. DISTILLATION PRODUCTS, INC., Rochester, N. Y. Filed Apr. 28, 1939.



For Grease, Particularly Adapted for Use in Sealing Removable Parts of Vacuum Apparatus.
Claims use since Mar. 20, 1939.

CLASS 16

Paints and Painters' Materials

Ser. No. 417,896. UNITED CARBON COMPANY, INC., Charleston, W. Va. Filed Apr. 5, 1939.

KEROID

For Paints in Ready Mixed Form.
Claims use since Mar. 14, 1939.

Ser. No. 419,038. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed May 3, 1939.

TRANZ

For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Apr. 5, 1939.

Ser. No. 419,039. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed May 3, 1939.

X-DUR

For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Apr. 5, 1939.

Ser. No. 419,040. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed May 3, 1939.

X-SYN

For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Apr. 5, 1939.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 414,588. AMERICAN CAR AND FOUNDRY MOTORS COMPANY, New York, N. Y. Filed Jan. 7, 1939.

a.C.f.

For Motor Vehicles—Namely, Trucks, Buses, Automobiles, and Structural Parts Thereof, and Motor Vehicle Radiators.
Claims use since Sept. 11, 1926.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 417,438. PAUL C. CALISSI, doing business as Calpa Products Company, Philadelphia, Pa. Filed Mar. 24, 1939.

CAL-GLEAM

For Electric Lamps.
Claims use since Mar. 11, 1939.

Ser. No. 418,164. NATIONAL SILVER DEPOSIT WARE CO. INC., New York, N. Y. Filed Apr. 12, 1939.

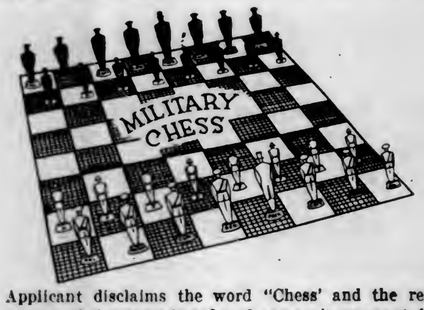
Typhoon

For Electric Mixers Such as Fruit and Vegetable Cutters.
Claims use since Apr. 7, 1939.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 417,840. EDWARD A. JOHNSON, Dayton, Ohio. Filed Apr. 4, 1939.



Applicant disclaims the word "Chess" and the representation of the game board and game pieces apart from the mark.

For Chess Game.
Claims use since Feb. 24, 1939.

Ser. No. 419,019. HORACE W. HALL, Newton Highlands, Mass. Filed May 3, 1939.



For Tennis, Squash, and Badminton Playing Rackets.
Claims use since Oct. 1, 1935.

Ser. No. 419,084. MCLOUGHLIN BROS., INC., Springfield, Mass. Filed May 4, 1939.

TAP-A-TUNE

For Toy Set Consisting of Music and an Instrument such as a Xylophone.
Claims use since Apr. 22, 1939.

Ser. No. 419,599. VIRGINIA RUBATEX CORPORATION, Bedford, Va. Filed May 19, 1939.

FIGUR-MAT

No claim is made to the word "Mat" apart from the mark.

For Cellular Rubber Exercise Mats.
Claims use since Apr. 28, 1939.

Ser. No. 419,628. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill. Filed May 20, 1939.

CASINO

For Ice Skates and Skate Outfits, the Latter Consisting of Attached Shoes and Skates.
Claims use since Apr. 20, 1939.

Ser. No. 419,629. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill. Filed May 20, 1939.

Classic

For Ice Skates and Skate Outfits, the Latter Consisting of Attached Shoes and Skates.
Claims use since May 1, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 400,196. LEVIN BROTHERS, New York, N. Y. Filed Nov. 27, 1937.

ALPHA

For Razor Blades.
Claims use since Oct. 1, 1937.

Ser. No. 411,530. HELLER BROTHERS COMPANY, Newark, N. J. Filed Oct. 12, 1938.

RIVAL

For Files.
Claims use since June 12, 1938.

Ser. No. 411,531. HELLER BROTHERS COMPANY, Newark, N. J. Filed Oct. 12, 1938.

HELLER



NUCUT

The surname "Heller" is disclaimed except as used in conjunction with the mark.
For Files.
Claims use since Mar. 15, 1931.

Ser. No. 411,711. RUTH DREDGER MANUFACTURING CORPORATION, LTD., Los Angeles, Calif., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware. Filed Oct. 17, 1938.

RUTH

For Ditching Machines and Bucket-Line Land Dredges.
Claims use since 1907.

Ser. No. 411,757. L. C. SMITH & CORONA TYPEWRITERS, INC., Syracuse, N. Y. Filed Oct. 18, 1938.

CORONA Zephyr

The drawing is lined for red and gold.
For Typewriting Machines.
Claims use since July 30, 1938.

Ser. No. 417,543. LILY MILLS COMPANY, Shelby, N. C. Filed Mar. 27, 1939.

Lily

SPEED-O-WEAVE

Applicant disclaims the words "Speed" and "Weave" apart from the mark.
For Hand Weaving Looms and Parts Thereof.
Claims use since Mar. 1, 1939.

Ser. No. 417,903. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Apr. 6, 1939.

Sunbeam

For Electric Dry Shavers and Parts Thereof.
Claims use since November, 1937.

Ser. No. 418,100. GAMBLE STORES INCORPORATED, Minneapolis, Minn. Filed Apr. 11, 1939.

EXPERT

For Farm and Garden Implements—Namely, Forks, Rakes, Hoes, Shovels, Hammers, Saws, Axes, Grinders, Fork Handles, Shovel Handles, Planes, Auger Braces, Auger Bits, Drawing Knives, Hand Drills, Chisels, and Vises, Not Including Files.
Claims use since March, 1937.

Ser. No. 418,233. ANKER-HOLTH MANUFACTURING CO., Port Huron, Mich. Filed Apr. 14, 1939.

Anker-Holth

MASTER-MILKER

No claim is made to the word "Milker" apart from the mark.
For Milking Machines.
Claims use since Jan. 21, 1939.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 407,540. ETABLISSEMENTS EMEL S. A. R. L., Paris, France. Filed June 16, 1938.

EMEL

For Devices, Apparatus, and Accessories for Cinematography and Photography—Namely, Films, View Taking Apparatus, Moving Picture Projectors.
Claims use since July 10, 1934.

Ser. No. 415,288. THE FOLMER GRAFLEX CORPORATION, Rochester, N. Y. Filed Jan. 27, 1939.

FACTOGRAPH

For Sensitized Films, Photographic Papers, Plates, Etc., for Photographic Purposes.
Claims use since Oct. 23, 1926.

Ser. No. 417,601. AGFA ANSCO CORPORATION, Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware. Filed Mar. 29, 1939.

CYKON

For Sensitized Photographic Paper.
Claims use since Mar. 3, 1939.

Ser. No. 417,602. AGFA ANSCO CORPORATION, Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware. Filed Mar. 29, 1939.

CYKORA

For Sensitized Photographic Paper.
Claims use since Mar. 3, 1939.

Ser. No. 418,033. CLOPAY CORPORATION, Cincinnati, Ohio. Filed Apr. 10, 1939.

FOTO FUN

The word "Foto" is disclaimed apart from the mark.
For Novelty Photographic Picture Printing Device.
Claims use since Sept. 6, 1938.

Ser. No. 418,521. FOSTER GRANT CO. INC., Leominster, Mass. Filed Apr. 21, 1939.

TRU-LUX

For Goggles and Sun-Glasses.
Claims use since Mar. 24, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 415,902. SAM LEBERMAN, doing business as Atlas Mattress Company, Springfield, Ill. Filed Feb. 10, 1939.

MAMMOTH

For Mattresses, Pillows, and Upholstered Furniture.
Claims use since June 15, 1934.

Ser. No. 415,903. SAM LEBERMAN, doing business as Atlas Mattress Company, Springfield, Ill. Filed Feb. 10, 1939.

Queen Rest

For Mattresses, Pillows, and Upholstered Furniture.
Claims use since June 15, 1926.

Ser. No. 417,082. THE COLUMBIA MILLS, INC., New York, N. Y. Filed Mar. 15, 1939.

Vellmo

For Mounted Shades, Window Shades, and Shade Rollers.
Claims use since Jan. 1, 1929.

Ser. No. 419,635. JACOB T. RUSSAKOV, doing business as The Russakov Company, Chicago, Ill. Filed May 20, 1939.

"SEATMASTER"

For Chairs, Including Stools and Kitchen Stools.
Claims use since Dec. 1, 1938.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 417,212. GARDEN CITY PLATING & MFG. CO., INC., Chicago, Ill. Filed Mar. 18, 1939.

Fluor-A-Case

The word "Case" is disclaimed apart from the mark.
For Lamp Reflectors.
Claims use since Feb. 23, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Serial No. 419,510. THE GARLOCK PACKING COMPANY, Palmyra, N. Y. Filed May 17, 1939.

NO. 6

For Hydraulic Packing.
Claims use since 1911.

CLASS 36

Musical Instruments and Supplies

Ser. No. 418,114. NATIONAL MUSICAL STRING CO., New Brunswick, N. J. Filed Apr. 11, 1939.

NATIONAL

For Strings for Musical Instruments.
Claims use since May, 1928.

CLASS 37

Paper and Stationery

Ser. No. 409,915. EMBY PHOTO AND FILM MACHINE CORP., New York, N. Y. Filed Aug. 24, 1938.

CANDID-CHECK BOOK

The words "Check Book" are disclaimed apart from the mark.
For Photographic Albums and Folders.
Claims use since Aug. 1, 1938.

Ser. No. 414,687. CHECKMASTER PLAN, INC., New York, N. Y. Filed Jan. 11, 1939.

CheckMaster
CREDIT SERVICE

The words "Credit Service" are disclaimed apart from the mark.
For Passbooks, Deposit Slips, Application Forms, Charge Notices, and Envelopes and Containers, Comprising Material Employed by Banks in Conducting Checking Accounts and Credit Services, and Sold to the Trade as Such.
Claims use since Dec. 12, 1938.

Ser. No. 415,875. CERCLA, INC., Chicago, Ill. Filed Feb. 10, 1939.

CERFLEX

For Binding Devices Made of Plastic Material.
Claims use since Nov. 14, 1938.

Ser. No. 415,967. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Feb. 11, 1939.

STRATHMORE COVER

Applicant is the owner of Reg. No. 29,613 (renewed) and 92,100 effected under the 10-year proviso. Applicant disclaims the word "Cover" apart from the mark.
For Cover Paper.
Claims use since Jan. 13, 1939.

Ser. No. 417,806. ABRAHAM KASMAN, doing business as Excelsior Stationery Company, New York, N. Y. Filed Apr. 3, 1939.

Ye Scribe Bond

No claim is made to "Bond" apart from the mark.
For Bond Paper.
Claims use since July 1, 1938.

CLASS 38

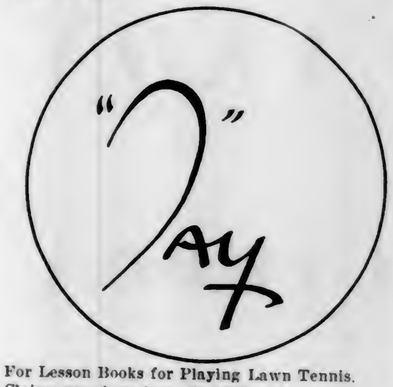
Prints and Publications

Ser. No. 403,509. KNIGHTS OF THE CAULIFLOWER EAR, St. Louis, Mo. Filed Feb. 28, 1938.



For Periodical Publications for the Purpose of Disseminating Club News, Published at Irregular Intervals.
Claims use since Nov. 28, 1935.

Ser. No. 410,305. SELWYN ORCUTT, Rye, N. Y. Filed Sept. 6, 1938.



For Lesson Books for Playing Lawn Tennis.
Claims use since Aug. 13, 1938.

Ser. No. 415,940. FOOD ADVERTISERS' SERVICE, New York, N. Y. Filed Feb. 11, 1939.

PENNY



POSTERS

The words "Penny Posters" are disclaimed apart from the mark.
For Posters Sold for Use in Advertising.
Claims use since Dec. 20, 1938.

Ser. No. 418,546. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Apr. 21, 1939.

GLAMOUR GIRL PATTERNS

For Section of a Periodical.
Claims use since Apr. 7, 1939.

CLASS 39

Clothing

Ser. No. 404,826. WINTER-DRITTEL, INC., New York, N. Y. Filed Apr. 2, 1938.

ZIPYORIN

For Women's Dresses.
Claims use since Dec. 15, 1937.

Ser. No. 410,435. THE MANHATTAN SHIRT COMPANY, New York, N. Y. Filed Sept. 10, 1938.

"THE BAND OF COMFORT"

The word "Band" is disclaimed apart from the mark.
For Pajamas.
Claims use since July 1, 1938.

Ser. No. 414,983. CORMAN & WASSERMAN, Baltimore, Md. Filed Jan. 19, 1939.

River-air

For Men's Coats, Vests, and Pants.
Claims use since Feb. 1, 1938.

Ser. No. 417,574. WADE E. HAIST, Aurora, Ill. Filed Mar. 28, 1939.



For Chamois Vests.
Claims use since Mar. 13, 1939.

Ser. No. 417,967. LAKELAND MANUFACTURING COMPANY, Sheboygan, Wis., and Chicago, Ill. Filed Apr. 7, 1939.



The words "Glasgow" and "Heather" are disclaimed apart from the mark.
For Men's and Boys' Overcoats, Top Coats, and Sport Coats.
Claims use since Nov. 25, 1938.

Ser. No. 418,265. QUAKER HOSIERY COMPANY, INC., Philadelphia, Pa. Filed Apr. 14, 1939.

YOUTH TOP

No claim is made to the word "Top" apart from the mark.
For Hosiery.
Claims use since Apr. 4, 1939.

Ser. No. 418,319. FRED P. WEISSMAN INC., New York, N. Y. Filed Apr. 15, 1939.

Sportleigh

CHURCHILL TWEED

The words "Churchill" and "Tweed" are disclaimed apart from the mark.
For Misses' and Juniors' Coats.
Claims use since January, 1938.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 416,719. BOOTT MILLS, Lowell, Mass. Filed Mar. 6, 1939.

BOOTT-CORDETTE

Applicant is owner of trade-mark registration No. 116,815 (renewed) for the word "Boott," effected under the 10-year proviso.
For Scrim.
Claims use since Mar. 2, 1939.

Ser. No. 417,168. FEDERATED TEXTILES, INC., New York, N. Y. Filed Mar. 17, 1939.

Federated

For Piece Goods of Cotton, Linen, Rayon, Silk, Woolen, and Worsted, or Any Combination of These Materials.
Claims use since Mar. 1, 1939.

Ser. No. 417,169. FEDERATED TEXTILES, INC., New York, N. Y. Filed Mar. 17, 1939.

FT

For Piece Goods of Cotton, Linen, Rayon, Silk, Woolen, and Worsted, or Any Combination of These Materials.
Claims use since Mar. 1, 1939.

Ser. No. 417,307. SENECA SILK CO. INC., New York, N. Y. Filed Mar. 20, 1939.

MOOR MIST

For Rayon Piece Goods.
Claims use since Mar. 17, 1938.

Ser. No. 417,893. MARK J. SLOMAN, New York, N. Y. Filed Apr. 5, 1939.

LOCK-A-Towel

The word "Towel" is disclaimed.
For Towels.
Claims use since Mar. 31, 1939.

Ser. No. 418,422. S. STEIN & Co., New York, N. Y. Filed Apr. 18, 1939.

CROSSLAND MOOR

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since May 1, 1938.

Ser. No. 418,428. ANTIPYROS COMPANY, New York, N. Y. Filed Apr. 19, 1939.

AP

For Piece Goods—Namely, Rayons, Acetates, Silks, and Cotton Goods.
Claims use since November, 1938.

Ser. No. 418,897. STONE MILL FABRICS CORPORATION, New York, N. Y. Filed Apr. 29, 1939.

GRADUATE

For Woven Fabrics Made of Cotton in Combination with Silk or Wool.
Claims use since Nov. 30, 1937.

Ser. No. 418,898. STONE MILL FABRICS CORPORATION, New York, N. Y. Filed Apr. 29, 1939.

NURSES FRIEND

For Woven Fabrics Made of Cotton in Combination with Silk or Wool.
Claims use since Nov. 23, 1937.

Ser. No. 419,090. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 4, 1939.

Par-tee

For Cotton Piece Goods.
Claims use since Aug. 22, 1934.

Ser. No. 419,237. S. STEIN & Co., New York, N. Y. Filed May 9, 1939.

KIN-BRAE

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since October, 1937.

Ser. No. 419,238. S. STEIN & Co., New York, N. Y. Filed May 9, 1939.

BRAE-BURY

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since July 26, 1938.

Ser. No. 419,292. COHN-HALL-MARX Co., New York, N. Y. Filed May 11, 1939.

TUBRITE

For Cotton, Rayon, Acetate, and/or Silk Piece Goods.
Claims use since Apr. 18, 1939.

Ser. No. 419,362. B. ALTMAN & Co., New York, N. Y. Filed May 13, 1939.

young homemakers shop

For Draperies, Drapery and Upholstery Fabrics, Curtains, Carpets, Rugs, Bedspreads, Sheets and Pillow Cases, Blankets, Table Linens, and Towels.
Claims use since Aug. 8, 1938.

CLASS 43

Thread and Yarn

Ser. No. 418,133. THE CLARK THREAD COMPANY, Newark, N. J. Filed Apr. 12, 1939.

BUGLE

For Cotton Sewing Thread.
Claims use since May 10, 1935.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 417,506. GEORGE H. RHORER, doing business as Elbo-Ette Company, New York, N. Y. Filed Mar. 25, 1939.

Elbo-ettes

The word "Elbo" is disclaimed apart from the mark.
For Elbow Pads Used to Protect Bed Linen from Grease or the Like that is Placed on the Elbow to Soften the Skin.
Claims use since Sept. 6, 1937.

Ser. No. 419,568. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed May 17, 1939.

Lucitone

For Dental Plate Blanks.
Claims use since Feb. 7, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 408,129. ORANGE-CRUSH COMPANY, Chicago, Ill. Filed July 1, 1938.

Swing

For Non-Alcoholic, Maltless Beverages and Concentrates and Compounds for Making the Same.
Claims use since June 24, 1938.

Ser. No. 418,956. WESTERN DISTRIBUTORS CORPORATION, Sacramento, Calif. Filed May 1, 1939.

"THUMBS UP"

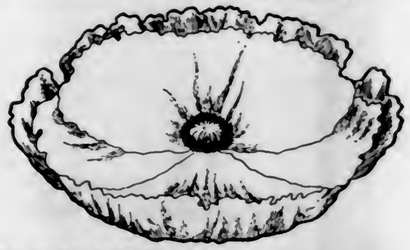
For Bottled Soft Drink Beverages and Mineral Waters.
Claims use since May 1, 1938.

Ser. No. 419,376. GREEN & GREEN INC., Houston, Tex. Filed May 13, 1939.

ROSE BOWL

For Non-Alcoholic, Maltless Beverages and Syrups and Concentrates for Making Same.
Claims use since March, 1939.

Ser. No. 419,460. WHITE ROCK MINERAL SPRINGS COMPANY, Waukesha, Wis. Filed May 15, 1939.



For Bottled Soda Water.
Claims use since May 5, 1939.

Ser. No. 419,461. WHITE ROCK MINERAL SPRINGS COMPANY, Waukesha, Wis. Filed May 15, 1939.

Q 9

For Bottled Soda Water.
Claims use since May 5, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 396,118. CANINE VITA-CANDY COMPANY, INC., Waterbury, Conn. Filed Aug. 7, 1937.

Charge

The drawing is lined for red.
For Vitamine-Containing Foods for Pets—Namely, Dogs, Cats, and Horses.
Claims use since July 1, 1937.

Ser. No. 404,394. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed Mar. 23, 1938.

HI-DEX

Applicant is the owner of registration 248,939, dated November 6, 1928.
For Corn Syrup Used in the Manufacture of Confectionery.
Claims use since Feb. 26, 1938.

Ser. No. 408,813. A. L. STEWART & SONS, Cherryfield, Maine. Filed July 22, 1938.

MAINE-LAND

The word "Maine" is disclaimed apart from the mark.
For Canned Fruits—Namely, Blueberries.
Claims use since May 19, 1938.

Ser. No. 415,434. CONSOLIDATED DAIRY PRODUCTS COMPANY, Seattle, Wash. Filed Jan. 31, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

FEDERAL

The applicant is the owner of registration No. 126,679, registered September 30, 1919.
For Dairy Products—Namely, Evaporated Milk and Skimmed Milk Powder.
Claims use since Nov. 19, 1918.

Ser. No. 415,629. THE BOOTH CORPORATION, Chicago, Ill. Filed Feb. 6, 1939.

QUICK FROZEN BOOTH FOODS

Applicant disclaims the words "Quick Frozen Foods".
For Fresh Frozen Fruits and Vegetables.
Claims use since Jan. 7, 1939.

Ser. No. 415,642. THE FRITO COMPANY, Dallas, Tex. Filed Feb. 6, 1939.

Frito Frys

Applicant is the sole owner of Trade-Mark No. 306,005, issued to Daisy D. Doolin, August 29, 1933. No claim is made to the word "Frys" apart from the mark.
For Salted Peanuts.
Claims use since May 21, 1935.

Ser. No. 416,565. HOLLYWOOD BRANDS INCORPORATED, doing business as Hollywood Candy Company, Minneapolis, Minn., and Centralia, Ill. Filed Mar. 1, 1939.

PAYDAY

For Candy.
Claims use since Sept. 7, 1932.

Ser. No. 416,733. OSCAR MAYER & COMPANY, Chicago, Ill. Filed Mar. 6, 1939.



For Meats and Meat Products—Namely, Salami Cotto (Sausage), Head Cheese, Boneless Tender Ham, Smoked Ham, Sweet Morsel (100 per cent Smoked Boneless Pork Butt), Georgia Style Bacon.
Claims use since May 15, 1936.

Ser. No. 416,734. OSCAR MAYER & COMPANY, Chicago, Ill. Filed Mar. 6, 1939.



For Meats and Meat Products—Namely, Liver Loaf, Epicure Loaf, Meat Loaf, De Luxe Loaf, Cooked Loin Roll, Cooked Boneless Fresh Loin Roll, Honeysweet Loaf, Blood and Tongue Loaf, Cleveland Sausage, Bismarck Style Loaf, New England Style Sausage, Minced Roll, Luscious Roll, and Spiced Luncheon Meat.
Claims use since May 15, 1936.

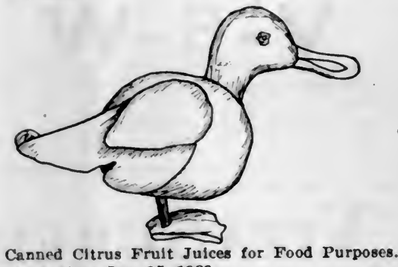
Ser. No. 416,922. FRANZ & LOUISE SCHETTY, doing business as Frank H. Schetty, Hasbrouck Heights, N. J. Filed Mar. 10, 1939.

DRAGON-SPECIALTIES



The word "Specialties" is disclaimed apart from the mark.
For Bakery Products—Namely, Cookies and Cakes.
Claims use since 1931.

Ser. No. 416,950. L. F. DRAKE, Mercedes, Tex. Filed Mar. 11, 1939.



For Canned Citrus Fruit Juices for Food Purposes.
Claims use since Jan. 15, 1939.

Ser. No. 417,220. S. HOLST-KNUDSEN, New York, N. Y. Filed Mar. 18, 1939.

COOKED BONELESS HAM
DAHLIA
BRAND BRAND

All wording except "Dahlia" is disclaimed apart from the mark. No claim is made to the representation of the label or to the representation of the goods.
For Canned Hams.
Claims use since 1934.

Ser. No. 417,433. H. C. BAXTER & BRO., doing business as H. C. Baxter Bros. Co., Baxter Bros. Co., and Augusta Canning Company, Brunswick, Maine. Filed Mar. 24, 1939.

BEST
RESERVE

The word "Best" is disclaimed apart from the mark.
For Canned Vegetables, Including Canned Corn, String Beans, Wax Beans, and Peas.
Claims use since July 15, 1888.

Ser. No. 417,434. H. C. BAXTER & BRO., doing business as H. C. Baxter Bros. Co., Baxter Bros. Co., and Augusta Canning Company, Brunswick, Maine. Filed Mar. 24, 1939.

MORNING BEAUTY

For Canned Vegetables, Including Canned Corn and Peas.
Claims use since 1898.

Ser. No. 417,458. HILKER & BLETSCH COMPANY, Cincinnati, Ohio. Filed Mar. 24, 1939.

V-B-W

For Vitamin B_1 Wafers Made from Wheat Flour, Cane Sugar, Shortening, Milk, Eggs, Condiments, and Flavoring Materials.

Claims use since Dec. 1, 1938.

Ser. No. 417,611. GENERAL MILLS, INC., Minneapolis, Minn. Filed Mar. 29, 1939.

VITASURED

For Cereal Food Products, Particularly Wheat Flour.
Claims use since Mar. 24, 1939.

Ser. No. 417,635. WILLIAMS, WEST & WITT PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 29, 1939.

A Cook's Delight

For Concentrated Meat Stock for Making Consommé, Bouillons, Broths, Gravies, Etc., and Also Used as a Seasoning for Cocktails, Dressings, Fish, Meat, Etc.
Claims use since Feb. 20, 1939.

Ser. No. 417,680. CHAS. F. CATES & SONS, INC., Faison, N. C. Filed Mar. 31, 1939.

QUAKER HILL

No claim is made to the outline of the label per se.
For Pickles, and Sweet Pickle Relishes.
Claims use since June 2, 1938.

Ser. No. 417,824. ROSEFIELD PACKING CO. LTD., Alameda, Calif. Filed Apr. 3, 1939.

PMS

For Dry Milk Powders.
Claims use since Feb. 1, 1939.

Ser. No. 418,019. G. WASHINGTON COFFEE REFINING CO., Morris Plains, N. J. Filed Apr. 8, 1939.



G. WASHINGTON'S

Applicant is the present owner of trade-mark certificates No. 152,082, 178,721, 178,722, 298,556, 362,618, and 362,619.

The drawing is lined for brown.

Representation of a container and the words "G. Washington's" are disclaimed apart from the mark as shown in the drawing.

For Broth.
Claims use since Mar. 4, 1939.

Ser. No. 418,020. G. WASHINGTON COFFEE REFINING CO., Morris Plains, N. J. Filed Apr. 8, 1939.



G. WASHINGTON'S

Applicant is the present owner of trade-mark certificates No. 152,082, 178,721, 178,722, 298,556, 362,618, and 362,619.

The drawing is lined for yellow.

Representation of a container and the words "G. Washington's" are disclaimed apart from the mark as shown in the drawing.

For Broth.
Claims use since Mar. 4, 1939.

Ser. No. 418,021. G. WASHINGTON COFFEE REFINING CO., Morris Plains, N. J. Filed Apr. 8, 1939.

G. Washington's
INSTANT BROTH

Applicant is the present owner of trade-mark certificates No. 152,082, 178,721, 178,722, 298,556, 362,618, and 362,619.

The name "G. Washington's" is a reproduction of the generally accepted signature of George Washington, deceased, the first President of the United States.

The words "Instant Broth" are disclaimed apart from the mark as shown on the drawing.

For Broth.
Claims use since Mar. 4, 1939.

Ser. No. 418,031. BOZEMAN CANNING COMPANY, Mount Vernon, Wash. Filed Apr. 10, 1939.

BOZEMAN'S
BIG P'S



The wording "Bozeman's Big P's" and "Peas" and the representation of a pea are disclaimed apart from the mark.

For Canned Peas.
Claims use since Jan. 18, 1939.

Ser. No. 418,072. STEELE-WEDELES COMPANY, Chicago, Ill. Filed Apr. 10, 1939.



For Coffee.
Claims use since May 22, 1930.

Ser. No. 418,089. NEWTON V. BAUM, Baltimore, Md. Filed Apr. 11, 1939.

KETTLE KRAFT
MAKERS OF
TASTY Pop Corn PRODUCTS

The words "Makers of Tasty Pop Corn Products" are disclaimed.

For Pop Corn Products—Namely, Candied, Cheese Coated, and Butter Coated Pop Corn.
Claims use since June 10, 1938.

Ser. No. 418,332. DAVID G. EVANS COFFEE COMPANY, St. Louis, Mo. Filed Apr. 17, 1939.

TANG-HI

For Tea.
Claims use since Jan. 6, 1939.

Ser. No. 418,642. KRAFT-PHENIX CHEESE CORPORATION, Chicago, Ill. Filed Apr. 24, 1939.

Parkay

For Oleomargarine.
Claims use since Sept. 21, 1937.

Ser. No. 418,654. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Apr. 24, 1939.

Old Southern

For Table Syrups, Molasses, and Imitation Fruit Jellies.
Claims use since June 27, 1932.

Ser. No. 418,690. J. G. MARINOVICH, Watsonville, Calif. Filed Apr. 25, 1939.



For Fresh Vegetables.
Claims use since Mar. 20, 1939.

Ser. No. 418,710. GENERAL BAKING COMPANY, New York, N. Y. Filed Apr. 26, 1939.

Bond

Applicant is the owner of registrations Nos. 109,864, dated April 18, 1916, and 159,357, dated September 26, 1922.

For Bread.

Claims use since June 1, 1915.

Ser. No. 418,841. LANCE PACKING COMPANY, Charlotte, N. C. Filed Apr. 28, 1939.



Big Town

For Cakes.

Claims use since Feb. 14, 1939.

Ser. No. 418,851. ROACH-INDIANA CORPORATION, Gwynneville, Ind. Filed Apr. 28, 1939.

RED TWINS

For Canned Tomatoes.

Claims use since Mar. 30, 1939.

Ser. No. 418,965. CROWN PRODUCTS CORPORATION, San Francisco and Los Angeles, Calif. Filed May 2, 1939.

Lady's Choice

For Orange Marmalade, Honey, Sandwich Spread, Salad Oil, Vinegar, Table Syrup, Mustard, Chili Peppers, French Dressing, Olive Oil, Olives, Catsup, Pepper Sauce, Peppers, Mayonnaise, Old English Sauce, Salad Dressings, Pickle Relishes, Worcestershire Sauce, Pickled Onions, Fruit Preserves, Jams, Jellies, and Pickles.

Claims use since Nov. 28, 1932.

Ser. No. 418,994. WILLIAM L. THOMPSON CO., Phoenix, Ariz., and Fort Garland, Colo. Filed May 2, 1939.

WHITE PEAK

For Fresh Vegetables—Namely, Lettuce, Peas, and Cauliflower.

Claims use since July, 1929.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 417,549. MOHAWK LIQUEUR CORPORATION, Detroit, Mich. Filed Mar. 27, 1939.

WHISKCOLA

For Alcoholic Cocktail.

Claims use since Jan. 10, 1939.

Ser. No. 417,551. MOHAWK LIQUEUR CORPORATION, Detroit, Mich. Filed Mar. 27, 1939.

WHISKO

For Alcoholic Cocktail.

Claims use since Jan. 10, 1939.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 411,342. RICHARDS, BOGGS AND KING, INC., Chicago, Ill. Filed Oct. 6, 1938.

Duranized

For Sheet Material Treated With a Waterproofing Medium and Adapted for Use in the Fabrication of Shower Curtains, Aprons, Garment Bags, Refrigerator Bags, Shoe Bags, Card Table Covers, and Other Novelty Items.

Claims use since Sept. 1, 1938.

Ser. No. 417,990. WASHINGTON TENT & AWNING CO., INC., Washington, D. C. Filed Apr. 7, 1939.

STURDIFOLD

For Awnings and Tents.

Claims use since Jan. 1, 1938.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 27, 1939

368,555. CANNED FRUITS, CANNED VEGETABLES, AND CANNED TOMATO JUICE. F. W. DUSTAN & SON, Clarkston, Wash.
Filed July 8, 1936. Serial No. 380,761. PUBLISHED APRIL 18, 1939. Class 46.

368,556. OUTER SHIRTS, PANTS, AND JACKETS. OBERMAN & COMPANY, Jefferson City, Mo.
Filed January 30, 1937. Serial No. 388,363. PUBLISHED APRIL 11, 1939. Class 39.

368,557. PREPARATIONS OF SULFANILAMIDE (PARA-AMINO-BENZENE-SULFON-AMIDE). SPICER AND COMPANY, Glendale, Calif.
Filed June 2, 1937. Serial No. 393,557. PUBLISHED AUGUST 31, 1937. Class 6.

368,558. MEN'S NECKTIES. BOWEN-INGALLS & CO., INC., New York, N. Y.
Filed July 24, 1937. Serial No. 395,607. PUBLISHED APRIL 18, 1939. Class 39.

368,559. PREPARATION FOR DESTROYING HAIR. FROHLICH LABORATORIES, INCORPORATED, Seattle, Wash.
Filed August 2, 1937. Serial No. 395,912. PUBLISHED FEBRUARY 15, 1938. Class 6.

368,560. WINES. WM. H. HOMMEL, doing business as The M. Hommel Wine Co., Sandusky, Ohio.
Filed October 18, 1937. Serial No. 398,620. PUBLISHED APRIL 18, 1939. Class 47.

368,561. COMBINATION PHONOGRAPH AND TIMED ELECTRICAL CIRCUIT CLOSING MEANS FOR THE CONTROL OF CERTAIN MECHANICAL AND ELECTRICAL DISPLAY MEANS SYNCHRONIZED WITH ITS OWN REPRODUCTION OF SOUND RECORDS. AUTOMATIC INSTRUMENT COMPANY, Grand Rapids, Mich.
Filed October 25, 1937. Serial No. 398,884. PUBLISHED APRIL 18, 1939. Class 36.

368,562. WOVEN TEXTILE BLANKETS. THE ESMOND MILLS, New York, N. Y.
Filed November 15, 1937. Serial No. 399,753. PUBLISHED NOVEMBER 8, 1938. Class 42.

368,563. BATH OIL, TOILET WATER, DUSTING POWDER, AND PERFUMED ENAMEL. MARX & KUSHNER, New York, N. Y.
Filed December 7, 1937. Serial No. 400,566. PUBLISHED MARCH 15, 1938. Class 6.

368,564. LOCKS. JOSIAH PARKES & SONS, LIMITED, Willenhall, England.
Filed December 9, 1937. Serial No. 400,655. PUBLISHED FEBRUARY 1, 1938. Class 25.

368,565. PERFUMES, EAU DE COLOGNE, FACE POWDERS, FACE CREAMS, BATH SALTS, ROUGE, LIPSTICK. ETTA PERFUMES, New York, N. Y.
Filed December 21, 1937. Serial No. 401,104. PUBLISHED APRIL 18, 1939. Class 6.

368,566. VALVES INTENDED TO BE USED ON THE OVERFLOW PIPE OF AN AUTOMOBILE RADIATOR. EVANS PRODUCTS COMPANY, Detroit, Mich.
Filed January 3, 1938. Serial No. 401,476. PUBLISHED APRIL 18, 1939. Class 13.

368,567. PREPARATION HAVING GERMICIDAL AND ASTRINGENT PROPERTIES AND USED IN TREATMENT OF PIMPLES, ACNE, AND SKIN DISEASES. JAMES H. BEREMAN, doing business as The Stillman Company, Aurora, Ill.
Filed January 10, 1938. Serial No. 401,724. PUBLISHED MAY 3, 1938. Class 6.

368,568. SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER, FABRIC, AND RUBBER, AND HOSIERY. G. R. KINNEY CO., INC., New York, N. Y.
Filed January 22, 1938. Serial No. 402,226. PUBLISHED APRIL 18, 1939. Class 39.

368,569. SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER, FABRIC, AND RUBBER, AND HOSIERY. G. R. KINNEY CO., INC., New York, N. Y.
Filed January 22, 1938. Serial No. 402,227. PUBLISHED APRIL 18, 1939. Class 39.

368,570. YARN OF ARTIFICIAL ORIGIN. NORTH AMERICAN RAYON CORPORATION, New York, N. Y.
Filed February 1, 1938. Serial No. 402,583. PUBLISHED APRIL 11, 1939. Class 43.

368,571. BOOTS, SHOES, AND SLIPPERS MADE OF RUBBER, FABRIC, AND LEATHER, AND/OR COMBINATIONS OF SAID MATERIALS. THE WOODSTOCK RUBBER COMPANY LIMITED, Woodstock, Ontario, Canada.
Filed February 3, 1938. Serial No. 402,659. PUBLISHED APRIL 18, 1939. Class 39.

368,572. PHONOGRAPH AND RADIO COMBINATION. ELECTRO ACOUSTIC PRODUCTS CO., Fort Wayne, Ind.
Filed February 14, 1938. Serial No. 403,001. PUBLISHED APRIL 18, 1939. Class 36.

368,573. PRESSURE AND THERMOSTATIC REGULATING VALVE FOR USE IN THE WATER COOLING SYSTEMS OF INTERNAL COMBUSTION ENGINES. EVANS PRODUCTS COMPANY, Detroit, Mich.
Filed February 21, 1938. Serial No. 403,243. PUBLISHED APRIL 18, 1939. Class 26.

368,574. GRADE CROSSING PROTECTORS OF THE BARRIER TYPE, WHICH ARE DESIGNED TO BE OPERATED AUTOMATICALLY BY APPROACHING TRAINS. EVANS PRODUCTS COMPANY, Detroit, Mich.
Filed February 21, 1938. Serial No. 403,244. PUBLISHED APRIL 18, 1939. Class 23.

368,575. HEATERS UTILIZING HOT FLUID FROM THE ENGINE FOR MOTOR VEHICLES OF ALL TYPES. EVANS PRODUCTS COMPANY, Detroit, Mich.
Filed February 21, 1938. Serial No. 403,246. PUBLISHED APRIL 18, 1939. Class 19.

368,576. CHEMICAL AGENT PREPARED IN LIQUID FORM FOR USE IN METAL WELDING AND BRAZING APPARATUS AND PROCESSES. THE AUTOMATIC GASFLUX COMPANY, Cleveland, Ohio.
Filed February 25, 1938. Serial No. 403,391. PUBLISHED APRIL 18, 1939. Class 6.

368,577. MAGAZINE. NATIONAL OIL MARKETERS ASSOCIATION, Washington, D. C.
Filed March 2, 1938. Serial No. 403,608. PUBLISHED APRIL 18, 1939. Class 38.

368,578. WOMEN'S, MISSES', AND CHILDREN'S PAJAMAS. THE EASTERN ISLES IMPORTING CO., INC., New York, N. Y.
Filed March 14, 1938. Serial No. 404,036. PUBLISHED MAY 17, 1938. Class 39.

368,579. PRECIOUS-METAL PLATED TABLEWARE, INCLUDING FLATWARE, HOLLOW-WARE, AND THE LIKE. DODGE, INCORPORATED, Los Angeles, Calif.
Filed March 21, 1938. Serial No. 404,296. PUBLISHED APRIL 18, 1939. Class 28.

368,580. TOILET SOAPS IN FLAKE, CAKE, AND POWDER FORM; BRUSHLESS SHAVING CREAM, SHAVING CREAM, AND MENTHOLATED SHAVING CREAM. HEARN DEPARTMENT STORES, INC., New York, N. Y.
Filed March 29, 1938. Serial No. 404,607. PUBLISHED JULY 19, 1938. Class 4.

368,581. RUBBER SPIDER, AN ACCESSORY WHICH IS USED FOR SUPPORTING THE TUBE LINE IN TURBINE WATER PUMPS. BEAN TIRE & RUBBER WORKS, San Jose, Calif.
Filed April 15, 1938. Serial No. 405,307. PUBLISHED APRIL 18, 1939. Class 23.

368,582. ANNUAL PUBLICATION DETAILING PARTICULAR INFORMATION REGARDING PARTS AND EQUIPMENT FOR AUTOMOTIVE VERICLES. THE BABCOCK PUBLICATIONS, INC., Akron, Ohio.
Filed April 16, 1938. Serial No. 405,338. PUBLISHED APRIL 11, 1939. Class 38.

368,583. WHEAT PASTE AND COLD WATER SIZE FOR USE ON WALLS. AMERICAN BRUSH CORPORATION, Chicago, Ill.
Filed May 26, 1938. Serial No. 406,744. PUBLISHED APRIL 18, 1939. Class 5.

368,584. CANNED TOMATO PASTE, CANNED FISH, CANNED VEGETABLES, CANNED OLIVES, AND CANNED TOMATO JUICE FOR FOOD PURPOSES. RIVERBANK CANNING COMPANY, Riverbank, Calif.
Filed June 10, 1938. Serial No. 407,330. PUBLISHED APRIL 18, 1939. Class 46.

368,585. DOUBLE FACED PERMANENTLY TACKY ADHESIVE TYPE TAPE FOR USE IN MOUNTING PRINTING CUTS ON WOOD OR METAL BASES. VAN CLEEF BROS., Chicago, Ill.
Filed June 10, 1938. Serial No. 407,339. PUBLISHED APRIL 11, 1939. Class 5.

368,586. OIL USED AS A DYEING ASSISTANT AND PENETRANT IN THE DYEING OF TEXTILES. HERCULES POWDER COMPANY, Wilmington, Del.
Filed July 6, 1938. Serial No. 408,241. PUBLISHED OCTOBER 11, 1938. Class 6.

368,587. LIFT-TRUCKS. EDWARD S. MARNON, Portland, Oreg.
Filed July 11, 1938. Serial No. 408,410. PUBLISHED APRIL 18, 1939. Class 19.

368,588. PACKAGE SEALERS. EUGENE K. KRAKAUR, Roosevelt, N. Y.
Filed July 26, 1938. Serial No. 408,924. PUBLISHED APRIL 18, 1939. Class 37.

368,589. BONDING CLAYS TO BE USED AS BONDING OR BINDING AGENTS FOR SUCH PURPOSES AS FOUNDRY AND OTHER SAND MOULD WORK. EASTERN CLAY PRODUCTS, INC., Elfort, Ohio.
Filed July 29, 1938. Serial No. 409,029. PUBLISHED APRIL 18, 1939. Class 1.

368,590. DRESSES, SLACKS, AND SUITS FOR WOMEN, MISSES, AND GIRLS, AND SUITS AND BLOUSES FOR BOYS. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed August 1, 1938. Serial No. 409,142. PUBLISHED APRIL 11, 1939. Class 39.

368,591. COSMETICS, INCLUDING BATH-OIL, BATH CRYSTALS, CLEANSING CREAMS, FOUNDATION CREAMS, NOURISHING CREAMS, TISSUE CREAMS, HAND CREAMS, COSMETIC LACQUERS, SKIN TONICS, SACHETS, TALCUM POWDERS, NAIL POLISHES, AND NAIL POLISH REMOVERS. ETHEL LEA NORE, INC., New York and Brooklyn, N. Y.
Filed August 5, 1938. Serial No. 409,279. PUBLISHED APRIL 4, 1939. Class 6.

368,592. ORGANDIE. BELLMAN BROOK BLEACHERY CO., Fairview, N. J.
Filed August 15, 1938. Serial No. 409,602. PUBLISHED APRIL 18, 1939. Class 42.

368,593. SHOE POLISHES, SHOE CLEANERS, AND SHOE CREAMS. WIZARD LIGHTFOOT APPLIANCE CO., also doing business as Trimfoot, St. Louis, Mo.
Filed August 19, 1938. Serial No. 409,797. PUBLISHED APRIL 18, 1939. Class 4.

368,594. ALFALFA TEA. CHARLES FAITH, doing business as Vigro Health Products Company, Cincinnati, Ohio.
Filed August 20, 1938. Serial No. 409,808. PUBLISHED APRIL 18, 1939. Class 46.

368,595. WATCHES. LUDWIG BAUMANN & COMPANY, New York, N. Y.
Filed September 1, 1938. Serial No. 410,166. PUBLISHED APRIL 18, 1939. Class 27.

368,596. HOUSEHOLD LAUNDRY BLEACH. SNOWTEX CHEMICAL CO., Melrose, Mass.
Filed September 2, 1938. Serial No. 410,240. PUBLISHED DECEMBER 27, 1938. Class 6.

368,597. SPOT REMOVER. THOMAS FULLER TORREY, Lynchburg, Va.
Filed September 7, 1938. Serial No. 410,345. PUBLISHED NOVEMBER 1, 1938. Class 4.

368,598. RESILIENT TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC FOR AUTOMOBILES, TRUCKS, AND TRACTORS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed September 12, 1938. Serial No. 410,462. PUBLISHED APRIL 18, 1939. Class 35.

368,599. MACHINE STAPLES. PARROT SPEED FASTENER CORPORATION, New York and Long Island City, N. Y.
Filed September 10, 1938. Serial No. 410,494. PUBLISHED APRIL 18, 1939. Class 13.

368,600. PRECIOUS STONES, BUTTONS MADE OF PRECIOUS METAL, NECKLACES, BROOCHES, FINGER RINGS, ETC. FRED ALTSCHULER-PICARD, Lausanne, Switzerland.
Filed September 21, 1938. Serial No. 410,815. PUBLISHED APRIL 11, 1939. Class 28.

368,601. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, UNDERWEAR, AND BATHING SUITS, AND UNDERWEAR AND BATHING SUITS FOR MEN. SIGBERT GUT, doing business as Sigbert Gut, Cortesca Jersey Manufaktur, Zurich, Switzerland.
Filed September 28, 1938. Serial No. 411,053. PUBLISHED APRIL 18, 1939. Class 39.

368,602. MEN'S SUITS. HASPEL BROS., INC., New Orleans, La.
Filed September 29, 1938. Serial No. 411,093. PUBLISHED APRIL 18, 1939. Class 39.

368,603. MEN'S SUITS. ALFRED DECKER & COHN, INC., Chicago, Ill.
Filed October 11, 1938. Serial No. 411,482. PUBLISHED APRIL 18, 1939. Class 39.

368,604. ALUMINUM ALLOYS CONTAINING MAGNESIUM; AND CASTINGS, AND FORGINGS, ROLLED SHEETS, AND EXTRUDED OR PRESSED RODS AND BARS, MADE OF ALUMINUM ALLOYS CONTAINING MAGNESIUM. BRISKE & PROHL, Berlin, Germany.
Filed October 11, 1938. Serial No. 411,488. PUBLISHED APRIL 11, 1939. Class 14.

368,605. PAJAMAS. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed October 12, 1938. Serial No. 411,541. PUBLISHED APRIL 11, 1939. Class 39.

368,606. COTTON PIECE GOODS. SENECA TEXTILE CORPORATION, New York, N. Y.
Filed October 15, 1938. Serial No. 411,661. PUBLISHED FEBRUARY 7, 1939. Class 42.

368,607. BEARING METAL OLLOYS AND UNFINISHED OR PARTLY FINISHED CASTINGS AND FORGINGS OF NON-FERROUS METALS. FEDERAL-MOGUL CORPORATION, Detroit, Mich.
Filed October 21, 1938. Serial No. 411,861. PUBLISHED APRIL 18, 1939. Class 14.

368,608. TEXTILE FIBERS. SCHLESISCHE ZELLWOLLE AKTIENGESELLSCHAFT, Hirschberg, Riesengebirge, Germany.
Filed October 22, 1938. Serial No. 411,971. PUBLISHED APRIL 18, 1939. Class 1.

368,609. TEXTILE FIBERS. SCHLESISCHE ZELLWOLLE AKTIENGESELLSCHAFT, Hirschberg, Riesengebirge, Germany.
Filed October 22, 1938. Serial No. 411,972. PUBLISHED APRIL 18, 1939. Class 1.

368,610. BLEACHING PREPARATION HAVING INCIDENTAL CLEANING PROPERTIES. JAMES JOHNSON EARSHEN, Buffalo, N. Y.
Filed October 28, 1938. Serial No. 412,076. PUBLISHED APRIL 11, 1939. Class 6.

368,611. ANTI-FREEZING PREPARATION. JAMES JOHNSON EARSHEN, Buffalo, N. Y
Filed October 28, 1938. Serial No. 412,077. PUBLISHED APRIL 11, 1939. Class 6.

368,612. COATS, TROUSERS, VESTS, AND OVERCOATS FOR MEN'S, YOUTHS', AND BOYS' WEAR AND LADIES' TROUSERS, COATS, AND SKIRTS. POLIKOFF LIMITED, London, England.
Filed November 3, 1938. Serial No. 412,354. PUBLISHED APRIL 11, 1939. Class 39.

368,613. STEEL IN THE FORM OF BILLETS. THE TIMKEN ROLLER BEARING COMPANY, Canton, Ohio.
Filed November 4, 1938. Serial No. 412,396. PUBLISHED APRIL 18, 1939. Class 14.

368,614. ADHESIVE CEMENT FOR SECURING FRICTION ELEMENTS FOR USE IN BRAKES AND CLUTCHES TO THE SUPPORTS THEREFOR. THE AMERICA BRAKE SHOE AND FOUNDRY COMPANY, also doing business as American Brakeblok Division of The American Brake Shoe and Foundry Company, New York, N. Y., and Detroit, Mich.
Filed November 5, 1938. Serial No. 412,402. PUBLISHED APRIL 18, 1939. Class 5.

368,615. MEDICATED SCALP OINTMENT AND SHAMPOO PREPARATION. HANNAH MAY POWELL, doing business as Powell Distributing Company, Philadelphia, Pa.
Filed November 7, 1938. Serial No. 412,461. PUBLISHED JANUARY 10, 1939. Class 6.

368,616. CAPS AND HATS FOR MEN, WOMEN, AND CHILDREN. LOFTY G. M. B. H., Zurich, Switzerland.
Filed November 16, 1938. Serial No. 412,820. PUBLISHED APRIL 18, 1939. Class 39.

368,617. CENTRIFUGAL MILK AND CREAM TEST BOTTLE REVOLVING MACHINE. CHERRY-BURRELL CORPORATION, Chicago, Ill.
Filed November 19, 1938. Serial No. 412,947. PUBLISHED MARCH 28, 1939. Class 23.

368,618. PRODUCTS FOR STIMULATING THE GROWTH OF HAIR AND FOR SOFTENING THE SKIN, EXTRACTS, LOTIONS, POWDERS, AND CREAMS USED AS PERFUMES, SYNTHETIC PERFUMES, AND ESSENTIAL OILS. VITAPIL S. A., Diekirch, Luxemburg.
Filed November 19, 1938. Serial No. 412,987. PUBLISHED APRIL 11, 1939. Class 6.

368,619. VISCOUS LIQUID OR SEMILIQUID CHEMICAL RAW MATERIAL OF UNSATURATED HYDROCARBON NATURE. WILMINGTON CHEMICAL CORPORATION, Wilmington, Del.
Filed November 22, 1938. Serial No. 413,056. PUBLISHED APRIL 18, 1939. Class 1.

368,620. VISCOUS LIQUID OR SEMILIQUID CHEMICAL RAW MATERIAL OF UNSATURATED HYDROCARBON NATURE. WILMINGTON CHEMICAL CORPORATION, Wilmington, Del.
Filed November 22, 1938. Serial No. 413,058. PUBLISHED APRIL 18, 1939. Class 1.

368,621. SODIUM ACETATE. WILLIAM R. ROGERS, Everett, Mass.
Filed November 25, 1938. Serial No. 413,143. PUBLISHED APRIL 4, 1939. Class 6.

368,622. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, PLAY SUITS, AND BATHING SUITS. S. AUGSTEIN & Co., College Point, N. Y.
Filed November 26, 1938. Serial No. 413,174. PUBLISHED FEBRUARY 14, 1939. Class 39.

368,623. BABIES' TEXTILE DIAPERS. S. & R. INFANTS WEAR CO., New York, N. Y.
Filed November 30, 1938. Serial No. 413,318. PUBLISHED FEBRUARY 7, 1939. Class 39.

368,624. MEN'S UNIFORMS FOR POLICE, FIREMEN, LETTER CARRIERS, ARMY, NAVY, SCHOOLS, HOTELS, THEATRES, BANDS, WAITERS, APARTMENTS, STEAMSHIPS, YACHTING, BUS DRIVERS, CHAUFFEURS, DOCTORS, DENTISTS, AND RIDING HABITS. WENDER & GOLDSTEIN, INC., New York, N. Y.
Filed November 30, 1938. Serial No. 413,325. PUBLISHED APRIL 18, 1939. Class 39.

368,625. RUGS AND CARPETS. R. FERRUCCIO BEMPORAD, doing business as Atlantic Rug Company, New York, N. Y.
Filed December 5, 1938. Serial No. 413,468. PUBLISHED APRIL 18, 1939. Class 42.

368,626. MEN'S HATS. DICKERSON & COMPANY, Detroit, Mich.
Filed December 5, 1938. Serial No. 413,473. PUBLISHED APRIL 18, 1939. Class 39.

368,627. MILK AND CREAM TESTING APPARATUS AND ACCESSORIES. CHERRY-BURRELL CORPORATION, Chicago, Ill.
Filed December 7, 1938. Serial No. 413,538. PUBLISHED MARCH 28, 1939. Class 26.

368,628. LEMON BEVERAGE TO BE SOLD AS A SOFT DRINK, EITHER WITH OR WITHOUT BEING FROZEN TO A SEMISOLID CONSISTENCY, OR A LEMON CONCENTRATE OR SYRUP FOR MAKING THE SAME. DAN D. STRATOS, Mansfield, Ohio.
Filed December 8, 1938. Serial No. 413,603. PUBLISHED APRIL 18, 1939. Class 45.

368,629. FEEDS—NAMELY, POULTRY FEEDS. SUNSHINE STATE HATCHERIES INC., Sioux Falls, S. Dak.
Filed December 8, 1938. Serial No. 413,604. PUBLISHED APRIL 18, 1939. Class 46.

368,630. COTTON, RAYON, AND WOOL IN THE PIECE. CHRISTIAN FISCHBACHER CO., St. Gall, Switzerland.
Filed December 10, 1938. Serial No. 413,665. PUBLISHED APRIL 18, 1939. Class 42.

368,631. FOOTWEAR—NAMELY, LEATHER SHOES, RUBBER SHOES, CANVAS SHOES, SLIPPERS, STOCKINGS, AND SOCKS. SOLOMON JACOBSON, doing business as I. Jacobson & Son, Lynbrook, N. Y.
Filed December 10, 1938. Serial No. 413,676. PUBLISHED APRIL 18, 1939. Class 39.

368,632. FLOUR MADE FROM SOYA BEAN AND WHEAT INTENDED TO BE USED IN BAKING BREAD AND OTHER BAKERY PRODUCTS. THE W. J. FITZPATRICK COMPANY, Chicago, Ill.
Filed December 12, 1938. Serial No. 413,705. PUBLISHED APRIL 18, 1939. Class 46.

368,633. LOTIONS AND OTHER PREPARATIONS FOR EXTERNAL APPLICATION IN THE TREATMENT OF SORE MUSCLES, SUNBURN, RINGWORM, ATHLETE'S FOOT, INSECT BITES, IVY POISONING, CHAFED SKIN, AND BRUISES. FAEM PRODUCTS, Pittsburgh, Pa.
Filed December 14, 1938. Serial No. 413,824. PUBLISHED APRIL 18, 1939. Class 6.

368,634. PHOTOGRAPHIC CHEMICALS. INTERNATIONAL RADIO CORPORATION, Ann Arbor, Mich.
Filed December 15, 1938. Serial No. 413,870. PUBLISHED APRIL 4, 1939. Class 6.

368,635. HOSIERY MADE IN PART WITH LINEN REINFORCING THREAD. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J.
Filed December 16, 1938. Serial No. 413,907. PUBLISHED APRIL 11, 1939. Class 39.

368,636. HOSIERY. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J.
Filed December 16, 1938. Serial No. 413,908. PUBLISHED APRIL 11, 1939. Class 39.

368,637. FILM SLIDES AND MOTION PICTURE FILM. VERNON P. LONG, Berkeley, Calif.
Filed December 17, 1938. Serial No. 413,953. PUBLISHED APRIL 18, 1939. Class 26.

368,638. FACE CREAMS, SHAMPOOS. EDMOND, QUEEN MARIE'S BEAUTICIAN, INC., New York, N. Y.
Filed December 20, 1938. Serial No. 414,026. PUBLISHED APRIL 4, 1939. Class 6.

368,639. ALE. JACOB RUPPERT, New York, N. Y.
Filed December 20, 1938. Serial No. 414,043. PUBLISHED APRIL 18, 1939. Class 48.

368,640. AIR DISTRIBUTORS AND DIFFUSERS FOR VENTILATING SYSTEMS. ANEMOSTAT CORPORATION OF AMERICA, New York, N. Y.
Filed December 23, 1938. Serial No. 414,135. PUBLISHED APRIL 18, 1939. Class 34.

368,641. CANDY. THE EUCLID CANDY CO. OF ILLINOIS, INC., Chicago, Ill.
Filed December 23, 1938. Serial No. 414,174. PUBLISHED APRIL 18, 1939. Class 46.

368,642. WOMEN'S SHOES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. HERPOLSHEIMER COMPANY, Grand Rapids, Mich.
Filed December 24, 1938. Serial No. 414,188. PUBLISHED APRIL 18, 1939. Class 39.

368,643. OXIDES, HYDROXIDES, AND OTHER SALTS OF METALS, PARTICULARLY OF TITANIUM, BARIUM SULPHATE (BLANC FIXE), AND CALCIUM SULPHATE FOR USE IN INDUSTRY, PHOTOGRAPHY, MEDICINE, AND PHARMACY, AND PIGMENTS USED IN THE MANUFACTURE OF RUBBER, FLOOR COVERINGS, PAPER, AND COSMETICS. TITAN CO. A/S, Fredrikstad, Norway.
Filed December 27, 1938. Serial No. 414,243. PUBLISHED APRIL 18, 1939. Class 6.

368,644. OXIDES, HYDROXIDES, AND OTHER SALTS OF METALS, PARTICULARLY OF TITANIUM, BARIUM SULPHATE (BLANC FIXE), AND CALCIUM SULPHATE FOR USE IN INDUSTRY, PHOTOGRAPHY, MEDICINE, AND PHARMACY, AND PIGMENTS USED IN THE MANUFACTURE OF RUBBER, FLOOR COVERINGS, PAPER, AND COSMETICS. TITAN CO. A/S, Fredrikstad, Norway.
Filed December 27, 1938. Serial No. 414,244. PUBLISHED APRIL 18, 1939. Class 6.

368,645. WOMEN'S COATS. LOUIS SHIPMAN & BAKER CO., New York, N. Y.
Filed December 28, 1938. Serial No. 414,277. PUBLISHED APRIL 18, 1939. Class 39.

368,646. REAGENT CHEMICALS. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed December 29, 1938. Serial No. 414,293. PUBLISHED APRIL 4, 1939. Class 6.

368,647. REAGENT CHEMICALS. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed December 29, 1938. Serial No. 414,294. PUBLISHED APRIL 4, 1939. Class 6.

368,648. STEEL. VIKING STEEL CORPORATION, New York, N. Y.
Filed January 3, 1939. Serial No. 414,476. PUBLISHED APRIL 18, 1939. Class 14.

368,649. LEAD PENCILS, MECHANICAL PENCILS, AND PENCIL LEADS. M. A. FERST, LTD., Atlanta, Ga.
Filed January 9, 1939. Serial No. 414,629. PUBLISHED APRIL 18, 1939. Class 37.

368,650. NECKTIES AND MUFFLERS. ERNEST GLICK, doing business as Ernest Glick Company, Chicago, Ill.
Filed January 9, 1939. Serial No. 414,630. PUBLISHED APRIL 18, 1939. Class 39.

368,651. YARN. LOUIS HOFFMAN, New York, N. Y.
Filed January 12, 1939. Serial No. 414,737. PUBLISHED APRIL 18, 1939. Class 43.

368,652. OXYGEN. THE LINDE AIR PRODUCTS COMPANY, New York, N. Y.
Filed January 12, 1939. Serial No. 414,763. PUBLISHED APRIL 18, 1939. Class 6.

368,653. LIQUID DETERGENT USED IN CLEANING—NAMELY, A CLEANER FOR CAT AND DOG ACCIDENTS. THE MORTON S. PINE CO., Cleveland, Ohio.
Filed January 13, 1939. Serial No. 414,798. PUBLISHED APRIL 18, 1939. Class 4.

368,654. COOKED HAM. THE TOBIN PACKING COMPANY INCORPORATED, Fort Dodge, Iowa.
Filed January 13, 1939. Serial No. 414,804. PUBLISHED APRIL 18, 1939. Class 46.

368,655. GAME OF CHINESE CHECKERS. BROWN MANUFACTURING COMPANY, Clinton, Mo.
Filed January 14, 1939. Serial No. 414,814. PUBLISHED FEBRUARY 21, 1939. Class 22.

368,656. POTATO CHIPS. THE FRITO COMPANY, Dallas, Tex.
Filed January 16, 1939. Serial No. 414,852. PUBLISHED APRIL 18, 1939. Class 46.

368,657. CARTOON OR COMIC STRIPS PUBLISHED PERIODICALLY. DELL PUBLISHING COMPANY, New York, N. Y.
Filed January 16, 1939. Serial No. 414,865. PUBLISHED APRIL 11, 1939. Class 38.

368,658. CARTOON OR COMIC STRIPS PUBLISHED PERIODICALLY. DELL PUBLISHING COMPANY, New York, N. Y.
Filed January 16, 1939. Serial No. 414,866. PUBLISHED APRIL 11, 1939. Class 38.

368,659. LADIES' OVERALLS, CHILDREN'S OVERALLS, PLAYSUITS, CULOTTES, OUTER SHORTS, HALTERS, AND KERCHIEFS. MUSKEGON MANUFACTURING COMPANY, INC., Muskegon, Mich.
Filed January 16, 1939. Serial No. 414,881. PUBLISHED APRIL 18, 1939. Class 39.

368,660. READY MIXED LIQUID, PASTE, AND EMULSIFIED PAINTS; PAINT ENAMELS, LACQUERS, VARNISHES, PIGMENTS GROUND IN OIL, ETC. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed January 16, 1939. Serial No. 414,888. PUBLISHED APRIL 18, 1939. Class 16.

368,661. PERIODICAL PUBLICATION. RAP-I-DOL DISTRIBUTING CORPORATION, New York, N. Y.
Filed January 17, 1939. Serial No. 414,922. PUBLISHED APRIL 11, 1939. Class 38.

368,662. SILVER POLISH, LENS POLISH, AND PULVERIZED WHITE DIATOMACEOUS EARTH USED AS AN ABRASIVE AND POLISHING COMPOUND. SEALCO BY-PRODUCTS COMPANY, INC., Bluefield, W. Va.
Filed January 17, 1939. Serial No. 414,926. PUBLISHED APRIL 18, 1939. Class 4.

368,663. MEDICINAL SALVE FOR LUMBAGO, ACUTE PLEURISY, SCIATICA, MOSQUITO BITES, BRONCHIAL COUGHS, AND EVERY OTHER PERSONAL PAIN. ALBERTO MIRANDA, Orange, N. J.
Filed January 10, 1939. Serial No. 414,937. PUBLISHED APRIL 11, 1939. Class 6.

368,664. MEDICINAL SALVE FOR ECZEMA, SUNBURN, BURNS, AND SCALDINGS, AND EXCORIATIONS. ALBERTO MIRANDA, Orange, N. J.
Filed January 10, 1939. Serial No. 414,938. PUBLISHED APRIL 11, 1939. Class 6.

368,665. CORSETS, CORSELETS, GIRDLES, BANDEAUS, PANTIES, AND BRASSIÈRES. VANITY CORSET COMPANY, INC., New York, N. Y.
Filed January 18, 1939. Serial No. 414,974. PUBLISHED APRIL 18, 1939. Class 39.

368,666. WOMEN'S DRESSES. FEIGENBAUM & ADELSON, INC., New York, N. Y.
Filed January 19, 1939. Serial No. 414,991. PUBLISHED APRIL 11, 1939. Class 39.

368,667. ENAMELED STEEL COOKING HOLLOW WARE. W. T. GRANT COMPANY, New York, N. Y.
Filed January 19, 1939. Serial No. 414,993. PUBLISHED APRIL 18, 1939. Class 13.

368,668. HANDBAGS. LESCO LTD., New York, N. Y.
Filed January 24, 1939. Serial No. 415,167. PUBLISHED APRIL 11, 1939. Class 3.

368,669. THEATRICAL COSTUMES. ALFRED ROSENBURG, Asbury Park, N. J.
Filed January 24, 1939. Serial No. 415,188. PUBLISHED APRIL 18, 1939. Class 39.

368,670. SEAT COVERS ESPECIALLY SUITABLE FOR AUTOMOBILES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1939. Serial No. 415,189. PUBLISHED APRIL 18, 1939. Class 19.

368,671. CAULKING COMPOUND USED AS A CAULKING, SEALING, OR FLASHING MATERIAL. SOUTHPORT PAINT COMPANY, INC., Savannah, Ga.
Filed January 24, 1939. Serial No. 415,193. PUBLISHED APRIL 11, 1939. Class 12.

368,672. ROOF-COATING MATERIAL MADE OF PURE VEGETABLE GUM BASE, COMBINED WITH NON-DRYING OILS AND ASBESTOS FIBRES. SOUTHPORT PAINT COMPANY, INC., Savannah, Ga.
Filed January 24, 1939. Serial No. 415,194. PUBLISHED APRIL 11, 1939. Class 12.

368,673. BLANK FORMS FOR ACCEPTANCES, NEGOTIABLE INSTRUMENTS, BILLS OF EXCHANGE, NOTES, WAREHOUSE RECEIPTS, CONTRACTS, STATEMENTS, AND DECLARATIONS. PHILADELPHIA ACCEPTANCE CORPORATION, Philadelphia, Pa.
Filed January 23, 1939. Serial No. 415,202. PUBLISHED APRIL 18, 1939. Class 37.

368,674. ART PAPERS USED FOR DRAWINGS AND TO RECEIVE PRINTED MATTER. BERMINGHAM & PROSSER CO., Chicago, Ill.
Filed January 26, 1939. Serial No. 415,242. PUBLISHED APRIL 18, 1939. Class 37.

368,675. WRITING INK. MILTON T. SUPAN, doing business as Supan's Ink Co., Red Bluff, Calif.
Filed January 26, 1939. Serial No. 415,270. PUBLISHED APRIL 11, 1939. Class 11.

368,676. CAT'S-EYES. TRABERT & HOEFFER INC., New York, N. Y.
Filed January 26, 1939. Serial No. 415,272. PUBLISHED APRIL 18, 1939. Class 28.

368,677. ELECTRIC BED LAMPS. J. SCHRADER COMPANY, Cleveland, Ohio.
Filed January 27, 1939. Serial No. 415,278. PUBLISHED APRIL 18, 1939. Class 21.

368,678. LADIES', MISSES', AND GIRLS' HATS. ETON CORPORATION, New York, N. Y.
Filed January 27, 1939. Serial No. 415,287. PUBLISHED APRIL 18, 1939. Class 39.

368,679. CORSETS AND FOUNDATION GARMENTS. INTERNATIONAL CORSET COMPANY, Aurora, Ill.
Filed January 27, 1939. Serial No. 415,293. PUBLISHED APRIL 18, 1939. Class 39.

368,680. LEATHER GLOVES. SPEARE GLOVE COMPANY, Gloversville, N. Y.
Filed January 27, 1939. Serial No. 415,306. PUBLISHED APRIL 18, 1939. Class 39.

368,681. TROUSERS AND SHORTS FOR MEN, WOMEN, BOYS, AND GIRLS. CLUETT, PEABODY & CO., INC., Troy, N. Y.
Filed January 28, 1939. Serial No. 415,325. PUBLISHED APRIL 18, 1939. Class 39.

368,682. SLIDE FASTENERS. PHILSTAN PRODUCTS COMPANY, Philadelphia, Pa.
Filed January 28, 1939. Serial No. 415,349. PUBLISHED APRIL 18, 1939. Class 13.

368,683. EGG COOKERS. EDWARD A. REISER, Dayton, Ohio.
Filed January 28, 1939. Serial No. 415,351. PUBLISHED APRIL 18, 1939. Class 13.

368,684. HOSIERY. BROWN DURRELL CO., Boston, Mass., and New York, N. Y.
Filed January 30, 1939. Serial No. 415,375. PUBLISHED APRIL 11, 1939. Class 39.

368,685. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. CONTINENTAL SHOE CORPORATION, Boston, Mass.
Filed January 30, 1939. Serial No. 415,382. PUBLISHED APRIL 18, 1939. Class 39.

368,686. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed January 30, 1939. Serial No. 415,408. PUBLISHED APRIL 18, 1939. Class 39.

368,687. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed January 30, 1939. Serial No. 415,410. PUBLISHED APRIL 18, 1939. Class 39.

368,688. FRESH VEGETABLES. BONITA PACKING COMPANY, Guadalupe, Calif.
Filed January 31, 1939. Serial No. 415,441. PUBLISHED APRIL 18, 1939. Class 46.

368,689. MEN'S AND WOMEN'S UNION SUITS, SHORTS, PAJAMAS, UNDERSHIRTS, AND SPORT JACKETS. MONTICELLO SHIRT COMPANY, Charlottesville, Va.
Filed January 31, 1939. Serial No. 415,460. PUBLISHED APRIL 18, 1939. Class 39.

368,690. BLANK BOOKS. HALLE COHEN, Jacksonville, Fla.
Filed February 1, 1939. Serial No. 415,470. PUBLISHED APRIL 18, 1939. Class 37.

368,691. INFANTS', CHILDREN'S, MISSES', AND WOMEN'S UNDERWEAR; WOMEN'S AND MISSES' BLOUSES; DRESSES FOR INFANTS, CHILDREN, AND WOMEN. LANDE & MISKEND, INC., New York, N. Y.
Filed February 1, 1939. Serial No. 415,480. PUBLISHED APRIL 18, 1939. Class 39.

368,692. SHOWER CURTAINS. JOSEPH A. KAPLAN INC., New York, N. Y.
Filed February 2, 1939. Serial No. 415,513. PUBLISHED APRIL 18, 1939. Class 13.

368,693. JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES. OSTBY AND BARTON COMPANY, Providence, R. I.
Filed February 2, 1939. Serial No. 415,519. PUBLISHED APRIL 11, 1939. Class 28.

368,694. CHOCOLATE COATED CANDIES. C. E. VOOGT CANDY CO., Chicago, Ill.
Filed February 2, 1939. Serial No. 415,530. PUBLISHED APRIL 18, 1939. Class 46.

368,695. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed February 3, 1939. Serial No. 415,536. PUBLISHED APRIL 18, 1939. Class 26.

368,696. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed February 3, 1939. Serial No. 415,537. PUBLISHED APRIL 18, 1939. Class 26.

368,697. LEATHER GOODS—NAMELY, BRIEF CASES, KEY CASES, AND BILL FOLDS. COAST ENVELOPE & LEATHER PRODUCTS CO., Los Angeles, Calif.
Filed February 3, 1939. Serial No. 415,541. PUBLISHED APRIL 11, 1939. Class 3.

368,698. NONALCOHOLIC BEVERAGES. A. B. COOK, Los Angeles, Calif.
Filed February 3, 1939. Serial No. 415,542. PUBLISHED APRIL 18, 1939. Class 45.

368,699. FACIAL TISSUE. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed January 30, 1939. Serial No. 415,565. PUBLISHED APRIL 18, 1939. Class 37.

368,700. AIR FILTERING PANELS. AIR-MAZE CORPORATION, Cleveland, Ohio.
Filed February 4, 1939. Serial No. 415,572. PUBLISHED APRIL 18, 1939. Class 34.

368,701. INGREDIENTS FOR MAKING PUDDINGS OF VARIOUS FLAVORS, SUCH AS CHOCOLATE OR VANILLA FLAVORED PUDDINGS, ETC. CHOCOLATE PRODUCTS COMPANY, Chicago, Ill.
Filed February 4, 1939. Serial No. 415,582. PUBLISHED APRIL 18, 1939. Class 46.

368,702. OIL BURNERS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed February 4, 1939. Serial No. 415,617. PUBLISHED APRIL 18, 1939. Class 34.

368,703. WALL KNIFE HOLDING RACKS. COBBS, HAMILTON COMPANY, Des Moines, Iowa.
Filed February 6, 1939. Serial No. 415,636. PUBLISHED APRIL 18, 1939. Class 13.

368,704. COUGH SQUARES, A PALLIATIVE DEMULCENT. GLEX CORPORATION, Wheaton, Ill.
Filed February 6, 1939. Serial No. 415,645. PUBLISHED APRIL 18, 1939. Class 6.

368,705. HOSIERY. KENOSHA FULL FASHIONED MILLS, INC., Kenosha, Wis.
Filed February 6, 1939. Serial No. 415,653. PUBLISHED APRIL 11, 1939. Class 39.

368,706. BRASSIÈRE, GIRDLE, AND PANTIE COMBINATION GARMENT. LA VEL COMPANY, Los Angeles, Calif.
Filed February 6, 1939. Serial No. 415,654. PUBLISHED APRIL 18, 1939. Class 39.

368,707. PREPARATION FOR THE TREATMENT OF ASTHMA, HAY FEVER, AND RELATED CONDITIONS. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed February 6, 1939. Serial No. 415,660. PUBLISHED APRIL 18, 1939. Class 6.

368,708. LADIES' UNDERWEAR, PAJAMAS, SLIPS, PANTIES, AND NIGHTGOWNS. COOPERATIVE HANDCRAFTS INCORPORATED OF PUERTO RICO, Santurce, P. R., and New York, N. Y.
Filed February 7, 1939. Serial No. 415,705. PUBLISHED APRIL 18, 1939. Class 39.

368,709. NATURAL AND SYNTHETIC ESSENTIAL OILS AND AROMATIC CHEMICALS USED IN THE MANUFACTURE OF TOILET PREPARATIONS. FELTON CHEMICAL CO. INC., New York, N. Y.
Filed February 7, 1939. Serial No. 415,710. PUBLISHED APRIL 18, 1939. Class 6.

368,710. LOCAL ANESTHETIC MATERIAL MADE IN SOLUTION, POWDERED, OR TABLET FORMS. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y.
Filed February 7, 1939. Serial No. 415,734. PUBLISHED APRIL 18, 1939. Class 6.

368,711. LOCAL ANESTHETIC MATERIAL MADE IN SOLUTION, POWDERED, OR TABLET FORMS. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y.
Filed February 7, 1939. Serial No. 415,735. PUBLISHED APRIL 18, 1939. Class 6.

368,712. TRADE MAGAZINE PUBLISHED MONTHLY. P. T. BIRCHARD, Seattle, Wash.
Filed February 8, 1939. Serial No. 415,760. PUBLISHED APRIL 18, 1939. Class 38.

368,713. CELERY. CHASE & COMPANY, Sanford, Fla.
Filed February 8, 1939. Serial No. 415,766. PUBLISHED APRIL 18, 1939. Class 46.

368,714. SWIMMING SUITS. JANTZEN KNITTING MILLS, Portland, Oreg.
Filed February 8, 1939. Serial No. 415,782. PUBLISHED APRIL 18, 1939. Class 39.

368,715. READY-MIXED PAINT, VARNISH, AND ENAMEL FOR INSIDE AND OUTSIDE WOODEN FLOORS, CONCRETE FLOORS, COMPOSITION FLOORS, PORCHES, AND LINOLEUM. PROGRESS PAINT MANUFACTURING COMPANY, Louisville, Ky.
Filed February 8, 1939. Serial No. 415,796. PUBLISHED APRIL 18, 1939. Class 16.

368,716. LADIES' CHEMISES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed February 8, 1939. Serial No. 415,797. PUBLISHED APRIL 18, 1939. Class 39.

368,717. ANTISEPTIC OIL FOR THE PROTECTION OF THE SKIN. HYMAN DICKMAN, doing business as Olpen Products, Washington, D. C.
Filed February 9, 1939. Serial No. 415,838. PUBLISHED APRIL 18, 1939. Class 6.

368,718. LEATHER GLOVES. BUSCARLET GLOVE COMPANY INC., New York, N. Y.
Filed February 10, 1939. Serial No. 415,873. PUBLISHED APRIL 18, 1939. Class 39.

368,719. DEVICE IMPREGNATED WITH LOTION TO BE APPLIED TO THE EYES. MASTIN PRODUCTS, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,952. PUBLISHED APRIL 18, 1939. Class 6.

368,720. EYE LOTION. MASTIN PRODUCTS, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,953. PUBLISHED APRIL 18, 1939. Class 6.

368,721. LADIES' HATS. MILLINERY MERCHANDISING EXECUTIVES ASSOCIATION, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,955. PUBLISHED APRIL 18, 1939. Class 39.

368,722. TONIC LAXATIVE. FRANK J. NIGHTINGALE, doing business as Community Health Foundation, San Diego, Calif.
Filed February 11, 1939. Serial No. 415,960. PUBLISHED APRIL 18, 1939. Class 6.

368,723. ELECTRIC LAMPS. NORTH AMERICAN ELECTRIC LAMP COMPANY, St. Louis, Mo.
Filed February 11, 1939. Serial No. 415,961. PUBLISHED APRIL 18, 1939. Class 21.

368,724. ELECTRIC HEAD LAMPS FOR VEHICLES. TRIPPE MANUFACTURING COMPANY, Chicago, Ill.
Filed February 11, 1939. Serial No. 415,971. PUBLISHED APRIL 18, 1939. Class 21.

368,725. IRONING MACHINES. BARLOW & SEELIG MFG. CO., Ripon, Wis.
Filed February 13, 1939. Serial No. 415,974. PUBLISHED APRIL 11, 1939. Class 24.

368,726. RADIO CIRCUIT UNIT ACTING ALSO AS AN ANTENNA. CONTINENTAL RADIO & TELEVISION CORP., Chicago, Ill.
Filed February 13, 1939. Serial No. 415,977. PUBLISHED APRIL 18, 1939. Class 21.

368,727. TOILET PREPARATIONS — NAMELY, LOTIONS, CREAMS, FACE POWDER, LIPSTICK, AND ROUGE. FRANCES DENNEY, Philadelphia, Pa.
Filed February 13, 1939. Serial No. 415,978. PUBLISHED APRIL 18, 1939. Class 6.

368,728. DANDRUFF REMOVER SHAMPOO AND DANDRUFF REMOVER TONIC. FOUR PENNY PRODUCTS CO., Chicago, Ill.
Filed February 13, 1939. Serial No. 415,982. PUBLISHED APRIL 18, 1939. Class 6.

368,729. PRESSING MACHINES USED IN LAUNDRIES, CLEANING ESTABLISHMENTS, AND THE LIKE. MCCLEARY BROS., INC., Memphis, Tenn.
Filed February 13, 1939. Serial No. 415,992. PUBLISHED APRIL 11, 1939. Class 24.

368,730. INCENSE, LIQUID PERFUME, SOLID PERFUME, AND SACHET POWDER. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill.
Filed February 13, 1939. Serial No. 415,995. PUBLISHED APRIL 18, 1939. Class 6.

368,731. PREPARATION OF ESTRADIOL-17-PROPIONATE USED FOR THE TREATMENT OF VARIOUS MENSTRUAL DISORDERS IN WOMEN. SCHIEFFELIN & Co., New York, N. Y.
Filed February 13, 1939. Serial No. 416,000. PUBLISHED APRIL 4, 1939. Class 6.

368,732. RUBBER THREAD. UNITED ELASTIC CORPORATION, Easthampton, Mass.
Filed February 13, 1939. Serial No. 416,002. PUBLISHED APRIL 18, 1939. Class 43.

368,733. MAGAZINE PUBLISHED FROM TIME TO TIME. YOUR HEALTH PUBLICATIONS, INC., New York, N. Y.
Filed February 13, 1939. Serial No. 416,007. PUBLISHED APRIL 11, 1939. Class 38.

368,734. YARNS OF ANIMAL FIBERS, VEGETABLE FIBERS, ARTIFICIAL FIBERS, REWORKED FIBERS, SYNTHETIC FIBERS, VIRGIN WOOL, SILK, COTTON, RUBBER, WORSTED, HAIR, RAYON, LINEN, HEMP, AND/OR MIXTURES OF THE SAME. QUAKER WORSTED MILLS CORPORATION, Philadelphia, Pa.
Filed February 14, 1939. Serial No. 416,015. PUBLISHED APRIL 18, 1939. Class 43.

368,735. TENSION, COMPRESSION, AND FATIQUE TESTING MACHINES. HENRY L. SCOTT COMPANY, Providence, R. I.
Filed February 14, 1939. Serial No. 416,017. PUBLISHED APRIL 18, 1939. Class 26.

368,736. BEER AND ALE. THE SUNRISE DISTRIBUTING COMPANY, Cleveland, Ohio.
Filed February 14, 1939. Serial No. 416,020. PUBLISHED APRIL 18, 1939. Class 48.

368,737. COMPOSITION BEARINGS, MACHINERY SHAFT COUPLINGS, AND SLIDES FOR USE WITH RECIPROCATING PARTS OF MACHINERY, ON ELEVATORS AND THE LIKE. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y.
Filed February 15, 1939. Serial No. 416,025. PUBLISHED APRIL 18, 1939. Class 23.

368,738. NECKTIES. H. C. COHN & Co., Rochester, N. Y.
Filed February 15, 1939. Serial No. 416,030. PUBLISHED APRIL 18, 1939. Class 39.

368,739. NECKTIES. H. C. COHN & Co., Rochester, N. Y.
Filed February 15, 1939. Serial No. 416,032. PUBLISHED APRIL 18, 1939. Class 39.

368,740. NECKTIES. H. C. COHN & Co., Rochester, N. Y.
Filed February 15, 1939. Serial No. 416,038. PUBLISHED APRIL 18, 1939. Class 39.

368,741. NECKTIES. H. C. COHN & Co., Rochester, N. Y.
Filed February 15, 1939. Serial No. 416,039. PUBLISHED APRIL 18, 1939. Class 39.

368,742. ASTRINGENTS, BEAUTY CREAMS, COLD CREAMS, REFRESHING CREAMS, VANISHING CREAMS, ETC. THE EMFO CORPORATION, New York, N. Y.
Filed February 15, 1939. Serial No. 416,056. PUBLISHED APRIL 18, 1939. Class 6.

368,743. SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAM, SHAVING STICKS, SHAVING POWDER, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL, SOAP POWDER FOR BATHING, SOAP FLAKES, HAND SOAPS, AND TOILET SOAPS. THE EMFO CORPORATION, New York, N. Y.
Filed February 15, 1939. Serial No. 416,057. PUBLISHED APRIL 18, 1939. Class 4.

368,744. SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAM, SHAVING STICKS, SHAVING POWDER, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL, SOAP POWDER FOR BATHING, SOAP FLAKES, HAND SOAPS, AND TOILET SOAPS. THE EMFO CORPORATION, New York, N. Y.
Filed February 15, 1939. Serial No. 416,058. PUBLISHED APRIL 18, 1939. Class 4.

368,745. ASTRINGENTS, BEAUTY CREAMS, COLD CREAMS, REFRESHING CREAMS, VANISHING CREAMS, ETC. THE EMFO CORPORATION, New York, N. Y.
Filed February 15, 1939. Serial No. 416,059. PUBLISHED APRIL 18, 1939. Class 6.

368,746. FILES. HELLER BROTHERS COMPANY, Newark, N. J.
Filed February 15, 1939. Serial No. 416,064. PUBLISHED APRIL 18, 1939. Class 23.

368,747. BRACELETS, BROOCHES, AND OTHER JEWELRY FOR PERSONAL WEAR NOT INCLUDING WATCHES, TRAYS, TEAPOTS, ETC. GEORG JENSEN & WENDEL A/S, Copenhagen, Denmark.
Filed February 15, 1939. Serial No. 416,067. PUBLISHED APRIL 18, 1939. Class 28.

368,748. CANDY. JOHN MACKINTOSH & SONS, LIMITED, Waterside, England.
Filed February 15, 1939. Serial No. 416,070. PUBLISHED APRIL 18, 1939. Class 46.

368,749. WALLETS. SCHLESINGER BROS., Philadelphia, Pa.
Filed February 15, 1939. Serial No. 416,073. PUBLISHED APRIL 18, 1939. Class 3.

368,750. EMMENAGOGUE TABLETS. WILLIAM FELS, doing business as Century Drug Company, New York, N. Y.
Filed February 16, 1939. Serial No. 416,096. PUBLISHED APRIL 18, 1939. Class 6.

368,751. APHRODISIAC TABLETS. WILLIAM FELS, doing business as Century Drug Company, New York, N. Y.
Filed February 16, 1939. Serial No. 416,097. PUBLISHED APRIL 18, 1939. Class 6.

368,752. MEDICINAL PREPARATION FOR THE RELIEF OF HAY FEVER. ANDREW G. SUMMERS, Portales, N. Mex.
Filed February 16, 1939. Serial No. 416,129. PUBLISHED APRIL 18, 1939. Class 6.

368,753. COMPOSITION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, STERILIZING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS AND ADAPTED TO BE ADDED TO WATER IN WHICH PLANTS ARE IMMERSED. AUGUST A. MEYER, doing business as Cut Flower Food Co., not inc., Maywood, Ill.
Filed February 17, 1939. Serial No. 416,154. PUBLISHED APRIL 18, 1939. Class 6.

368,754. OINTMENT USED FOR THE TREATMENT OF SKIN IRRITATIONS, CUTS, BURNS, SUNBURNS, CHAPPED HANDS AND FACE, AND PERSPIRING, ITCHING, TIRED, OR BURNING FEET. ROBERT H. SMITH, doing business as The Bazon Company, Spartanburg, S. C.
Filed February 17, 1939. Serial No. 416,162. PUBLISHED APRIL 11, 1939. Class 6.

368,755. FRESH DECIDUOUS FRUITS. BEAR CREEK ORCHARDS, Medford, Oreg.
Filed February 18, 1939. Serial No. 416,175. PUBLISHED APRIL 18, 1939. Class 46.

368,756. MUSTARD OINTMENT FOR THE TREATMENT OF COMMON CHEST COLDS, HEADACHES, MUSCULAR PAINS, SORE MUSCLES, NEURALGIA, ETC. INDEPENDENT PHARMACY, Eclectic, Ala.
Filed February 18, 1939. Serial No. 416,189. PUBLISHED APRIL 18, 1939. Class 6.

368,757. MONOLITHIC ACOUSTICAL TILE. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed February 18, 1939. Serial No. 416,191. PUBLISHED APRIL 18, 1939. Class 12.

368,758. GLAZIERS' POINTS. SNELL-JONES TACK CORPORATION, Brockton, Mass.
Filed February 18, 1939. Serial No. 416,208. PUBLISHED APRIL 18, 1939. Class 13.

368,759. FUDGE AND CAKE ICING MIX. THE TENNEX COMPANY, San Francisco, Calif.
Filed February 18, 1939. Serial No. 416,210. PUBLISHED APRIL 18, 1939. Class 46.

368,760. VEHICLE WHEELS, AND RIMS FOR VEHICLE WHEELS. THE TIRE AND RIM ASSOCIATION, INC., Cleveland, Ohio.
Filed February 18, 1939. Serial No. 416,211. PUBLISHED APRIL 18, 1939. Class 19.

368,761. VEHICLE WHEELS, AND RIMS FOR VEHICLE WHEELS. THE TIRE AND RIM ASSOCIATION, INC., Cleveland, Ohio.
Filed February 18, 1939. Serial No. 416,212. PUBLISHED APRIL 18, 1939. Class 19.

368,762. CHEMICAL AGENT PREPARED IN LIQUID FORM FOR USE IN METAL WELDING AND BRAZING APPARATUS AND PROCESSES. THE AUTOMATIC GASFLUX COMPANY, Cleveland, Ohio.
Filed February 20, 1939. Serial No. 416,240. PUBLISHED APRIL 18, 1939. Class 6.

368,763. PERFUMES. THE CHARLES MARCHAND COMPANY, New York, N. Y.
Filed February 20, 1939. Serial No. 416,261. PUBLISHED APRIL 18, 1939. Class 6.

368,764. CANNED TOMATO PASTE. GEORGE W. METLAR, doing business as Calmato Distributing Company, San Francisco, Calif.
Filed February 20, 1939. Serial No. 416,262. PUBLISHED APRIL 18, 1939. Class 46.

368,765. BAY RUM. RUMBY, Philadelphia, Pa.
Filed February 20, 1939. Serial No. 416,266. PUBLISHED APRIL 4, 1939. Class 6.

368,766. AFTER SHAVING LOTION, HAIR AND SCALP PREPARATION. RUMBY, Philadelphia, Pa.
Filed February 20, 1939. Serial No. 416,267. PUBLISHED APRIL 11, 1939. Class 6.

368,767. CHEMICAL KNOWN AS MERCAPTOBENZOTHIAZOLE USED TO PREVENT DETERIORATION OF GASOLINE CONTAINERS. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed February 20, 1939. Serial No. 416,272. PUBLISHED APRIL 4, 1939. Class 6.

368,768. WINDOW SHADES AND ROLLERS. THE WESTERN SHADE CLOTH CO., Chicago, Ill.
Filed February 20, 1939. Serial No. 416,276. PUBLISHED APRIL 18, 1939. Class 32.

368,769. BAKING SODA. SANDY VALLEY GROCERY COMPANY, Ashland, Ky.
Filed February 21, 1939. Serial No. 416,297. PUBLISHED APRIL 4, 1939. Class 6.

368,770. HAIR TONIC TO PREVENT PRURIENCY, DANDRUFF, SEBORRHEA, ALOPECY, AND FALLING HAIR. ANTONIO BILOTTI, Clifton Heights, Pa.
Filed February 23, 1939. Serial No. 416,308. PUBLISHED APRIL 4, 1939. Class 6.

368,771. WHISKEY. THE DAVIESS COUNTY DISTILLING COMPANY, INC., Owensboro, Ky.
Filed February 23, 1939. Serial No. 416,316. PUBLISHED APRIL 18, 1939. Class 49.

368,772. OINTMENTS, LOTIONS, AND DUSTING POWDERS FOR THE SKIN. GEORGE M. LITSCH, Mahanoy City, Pa.
Filed February 23, 1939. Serial No. 416,328. PUBLISHED APRIL 4, 1939. Class 6.

368,773. LIQUID SOAP AND SOAP CAKE FOR TOILET PURPOSES. GEORGE M. LITSCH, Mahanoy City, Pa.
Filed February 23, 1939. Serial No. 416,329. PUBLISHED APRIL 1, 1939. Class 4.

368,774. TYPEWRITERS AND PARTS THEREOF. REMINGTON RAND INC., Buffalo, N. Y.
Filed February 23, 1939. Serial No. 416,339. PUBLISHED APRIL 18, 1939. Class 23.

368,775. PERFUME, VANISHING CREAM, LEMON, CLEANSING CREAM, SKIN BLEACH CREAM, COLD CREAM, ETC. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill.
Filed February 23, 1939. Serial No. 416,356. PUBLISHED APRIL 4, 1939. Class 6.

368,776. RESINS TO BE USED IN FABRICATION OF VARNISH AND THE LIKE. CATALIN CORPORATION, New York, N. Y.
Filed February 24, 1939. Serial No. 416,367. PUBLISHED APRIL 18, 1939. Class 16.

368,777. MOUNTED SHADES, WINDOW SHADES, AND SHADE ROLLERS. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed February 24, 1939. Serial No. 416,370. PUBLISHED APRIL 18, 1939. Class 32.

368,778. AUTOMATIC FUEL OIL BURNERS FOR CENTRAL HEATING PLANTS. SHERWOOD BROTHERS INCORPORATED, Baltimore, Md.
Filed February 24, 1939. Serial No. 416,389. PUBLISHED APRIL 18, 1939. Class 34.

368,779. LUBRICATING OILS AND GREASES. SWAN-FINCH OIL CORPORATION, New York, N. Y.
Filed February 24, 1939. Serial No. 416,393. PUBLISHED APRIL 18, 1939. Class 15.

368,780. PLAYING CARDS. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y.
Filed February 24, 1939. Serial No. 416,394. PUBLISHED APRIL 18, 1939. Class 22.

368,781. SOFT DRINKS, CARBONATED BEVERAGES, AND SYRUPS FOR MAKING SAME, ETC. THE W. T. WAGNER'S SONS COMPANY, Cincinnati, Ohio.
Filed February 27, 1939. Serial No. 416,491. PUBLISHED APRIL 18, 1939. Class 45.

368,782. JEWELRY CHAINS, SUCH AS NECK CHAINS, WATCH CHAINS, KEY CHAINS, SPORT AND SAFETY CHAINS FOR WATCHES, ANKLETS, EYEGLASS CHAINS, AND SAUTOIRS. AMERICAN JEWELRY CHAIN COMPANY, Providence, R. I.
Filed February 28, 1939. Serial No. 416,498. PUBLISHED APRIL 18, 1939. Class 28.

368,783. LIQUID PREPARATION USED IN CONJUNCTION WITH PERMANENT WAVING EQUIPMENT. GUERIN J. BLISS, doing business as The Stylart Company, San Francisco, Calif.
Filed February 28, 1939. Serial No. 416,502. PUBLISHED APRIL 11, 1939. Class 6.

368,784. ADHESIVE REMOVER PREPARATION. DANIEL GIAQUINTO, Woodside, N. Y.
Filed February 28, 1939. Serial No. 416,507. PUBLISHED APRIL 18, 1939. Class 6.

368,785. JEWELRY FOR PERSONAL WEAR OR ADORNMENT NOT INCLUDING WATCHES, PRECIOUS STONES, GOLD KNIVES, SILVER KNIVES, ETC. HERMES, S. A., Paris, France.
Filed March 1, 1939. Serial No. 416,562. PUBLISHED APRIL 18, 1939. Class 28.

368,786. ESTROGENIC HORMONE IN OIL. LOESER LABORATORY, INCORPORATED, New York, N. Y.
Filed March 1, 1939. Serial No. 416,568. PUBLISHED APRIL 11, 1939. Class 6.

368,787. PERFUMES, TOILET WATERS, FACE AND TOILET POWDERS, POWDER AND ROUGE COMPACTS, ROUGES, LIPSTICKS, ETC. PARFUMERIE ROGER ET GALLET, SOCIÉTÉ ANONYME, Paris, France.
Filed March 1, 1939. Serial No. 416,580. PUBLISHED APRIL 11, 1939. Class 6.

368,788. GAMES INVOLVING THE USE OF CARDS. W. S. TOWNSEND, Miami Beach, Fla.
Filed March 1, 1939. Serial No. 416,588. PUBLISHED APRIL 18, 1939. Class 22.

368,789. SILVER PLATED FLATWARE AND HOLLOWWARE. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass.
Filed March 3, 1939. Serial No. 416,655. PUBLISHED APRIL 18, 1939. Class 28.

368,790. MEDICINAL PREPARATIONS USED IN HORMONE THERAPEUTICS. ROCHE-ORGANON, INC., Nutley, N. J.
Filed March 6, 1939. Serial No. 416,746. PUBLISHED APRIL 18, 1939. Class 6.

368,791. CAPSULE INDICATED IN THE TREATMENT OF VITAMIN DEFICIENCY. BREWER & COMPANY, INC., Worcester, Mass.
Filed March 7, 1939. Serial No. 416,762. PUBLISHED APRIL 18, 1939. Class 6.

368,792. PREPARATIONS USED IN AND FOR THE TREATMENT OF ALL SUCH PATHOLOGICAL OR PHYSICAL CONDITIONS AS MAY RESULT FROM HIGH BLOOD PRESSURE. THE KNOX COMPANY, Los Angeles, Calif.
Filed March 8, 1939. Serial No. 416,804. PUBLISHED APRIL 18, 1939. Class 6.

368,793. OLEAGINOUS PREPARATION USED FOR SOFTENING, LUBRICATING, AND CONDITIONING SILK AND RAYON YARN FOR KNITTING. QUAKER CHEMICAL PRODUCTS CORP., Conshohocken, Pa.
Filed March 8, 1939. Serial No. 416,815. PUBLISHED APRIL 18, 1939. Class 6.

368,794. DOLLS. AMERICAN CHARACTER DOLL CO. INC., New York, N. Y.
Filed March 9, 1939. Serial No. 416,827. PUBLISHED APRIL 18, 1939. Class 22.

368,795. MEDICINAL PREPARATION FOR USE IN GLANDULAR DEFICIENCIES. SCHERING CORPORATION, Bloomfield, N. J.
Filed March 10, 1939. Serial No. 416,921. PUBLISHED APRIL 18, 1939. Class 6.

368,796. SILVER AND SILVER MOUNTED FLATWARE (IMPLEMENTS WITH A HANDLE OR FINGER HOLD FOR CULINARY, FEEDING, SERVING, OR PERSONAL USE), AND SILVER AND SILVER MOUNTED HOLLOW WARE (VESSELS, PLATES, PLATTERS, CARRIERS, COVERS, AND SUPPORTS FOR STORING, HOLDING, OR COVERING FOODS, LIQUIDS, OR COMMODITIES). TOWLE MANUFACTURING COMPANY, Newburyport, Mass.
Filed March 10, 1939. Serial No. 416,927. PUBLISHED APRIL 18, 1939. Class 28.

368,797. CHILDREN'S COMBINATION DESK AND PEG AND NAILING DESIGN PLAY SETS. FRANK B. ROBB, doing business as Triad Manufacturing Company, Chagrin Falls, Ohio.
Filed March 11, 1939. Serial No. 416,967. PUBLISHED APRIL 18, 1939. Class 22.

368,798. MOUNTED SHADES, WINDOW SHADES, AND SHADE ROLLERS. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed March 13, 1939. Serial No. 416,998. PUBLISHED APRIL 18, 1939. Class 32.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

368,799. (CLASS 39. CLOTHING.) SOUTHERN HANDKERCHIEF MANUFACTURING CO., Greenville, S. C. Filed June 4, 1937. Serial No. 393,669.

ALL AMERICAN

For Handkerchiefs.
Claims use since Dec. 3, 1936.

368,800. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) LEATHERWEAR COMPANY, INC., Middletown, N. Y. Filed Apr. 23, 1938. Serial No. 405,652.

AIRLES

For Tobacco Pouches.
Claims use since Apr. 14, 1938.

368,801. (CLASS 13. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) THE COLORADO FUEL AND IRON CORPORATION, Denver, Colo. Filed May 9, 1938. Serial No. 406,119.

LOK-TWIST

For Poultry Netting and Other Types of Metal Fencing.
Claims use since Apr. 15, 1938.

368,802. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MONARCH MACHINE TOOL COMPANY, Sidney, Ohio. Filed May 9, 1938. Serial No. 406,147.

FLAME HARDENED

For Lathes.
Claims use since Feb. 3, 1938.

368,803. (CLASS 39. CLOTHING.) HATTIE CARNEGIE, INC., New York, N. Y. Filed May 10, 1938. Serial No. 406,175.

Hattie Carnegie

For Sweaters, Knitted Suits, Hair Nets, Knit Scarfs, and Shawls for Personal Wear.
Claims use since Jan. 1, 1919.

368,804. (CLASS 39. CLOTHING.) CHARLES CHIPMAN'S SONS CO., INC., New York, N. Y. Filed May 13, 1938. Serial No. 406,281.

SEAM-LINE

For Hosiery.
Claims use since Mar. 8, 1938.

368,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORENO BROTHERS, INC., Los Angeles, Calif. Filed May 20, 1938. Serial No. 406,558.

BEAUMONT

For Fresh Citrus Fruit, Fresh Deciduous Fruit, and Fresh Vegetables.
Claims use since May 10, 1938.

368,806. (CLASS 39. CLOTHING.) EMPIRE IMPORTS, New York, N. Y. Filed May 26, 1938. Serial No. 406,755.

Heatherton Shetland

For Ladies' and Men's Sports Apparel—i. e., Sweaters, Sport Jackets, Dresses, Skirts, Hose Anklets, Scarves, Hats, and Gloves, the Latter Being Made of Leather or Fabric, or a Combination of Both.
Claims use since Apr. 15, 1938.

368,807. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE LANE COMPANY, INC., Altavista, Va. Filed May 27, 1938. Serial No. 406,814.

Virginia Maid

For Cedar Wardrobes, Cedar Chifforobes, Cedar Closets, and Cedar Chests, Designed for the Destroying of and the Protection Against Moths and Eggs and Worms in Clothing, Etc.
Claims use since May 6, 1938.

368,808. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CONE AUTOMATIC MACHINE COMPANY INC., Windsor, Vt. Filed June 10, 1938. Serial No. 407,306.

CONE AUTOMATIC

For Automatic Lathes and Screw Machines.
Claims use since 1917.

368,809. (CLASS 39. CLOTHING.) FRANK SHULMAN, Boston, Mass. Filed Sept. 20, 1938. Serial No. 410,803.

M D

Mona Duncan

For Women's Coats.
Claims use since Sept. 2, 1937.

368,810. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KARO KNIT FABRICS, INC., New York, N. Y. Filed Oct. 20, 1938. Serial No. 411,835.

Karo-cloth

For Cotton Knitted Fabrics in the Piece.
Claims use since May 11, 1938.

368,811. (CLASS 37. PAPER AND STATIONERY.) THE GUMMED PRODUCTS COMPANY, Troy, Ohio. Filed Nov. 9, 1938. Serial No. 412,551.

PREE-FOLD

For Gummed Paper Tape.
Claims use since Mar. 24, 1937.

368,812. (CLASS 37. PAPER AND STATIONERY.) HARRY SACHNOFF, New York, N. Y. Filed Dec. 29, 1938. Serial No. 414,312.

INK-VUE

For Fountain Pens.
Claims use since Mar. 25, 1938.

368,813. (CLASS 37. PAPER AND STATIONERY.) H. W. NICHOLS SALESBOOK CO., Cincinnati, Ohio. Filed Feb. 13, 1939. Serial No. 415,996.

NICHOLS SIMPLIFIED PAYROLL RECORD

For Record Books.
Claims use since Nov. 23, 1936.

368,814. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MILES L. FINCH, doing business as Associate British Mfrs., New York, N. Y. Filed Apr. 19, 1939. Serial No. 418,436.

CLACHAN
HANDWOVEN TWEED

For Woolen and Worsted Textile Fabrics in the Piece.
Claims use since Feb. 1, 1938.

368,815. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) VINTON HYBRID CORN COMPANY, Vinton, Iowa. Filed Apr. 19, 1939. Serial No. 418,469.

VINTON HYBRID CORN COMPANY
VINTON, IOWA.

For Various Varieties of Hybrid Seed Corn.
Claims use since Jan. 1, 1933.

TRADE-MARK REGISTRATIONS RENEWED

17,082. **AN ELEPHANT'S HEAD.** TEA. Registered October 1, 1889. JOSEPH TETLEY & Co., London, England. Re-renewed October 1, 1939, to Joseph Tetley & Co. Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

124,768. **KING MIDAS.** WHEAT-FLOUR. Registered March 11, 1919. SHANE BROS. & WILSON Co., Philadelphia and Millbourne, Pa., and Minneapolis, Minn. Renewed March 11, 1939, to Van Dusen Harrington Co., doing business as King Midas Flour Mills, Minneapolis, Minn., a corporation of Minnesota, successor.

125,413. **REGENT.** STEEL IN CERTAIN NAMED FORMS. Registered May 20, 1919. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa. Renewed May 20, 1939, to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey.

125,414. **DOUBLE STAR.** STEEL IN CERTAIN NAMED FORMS. Registered May 20, 1919. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa. Renewed May 20, 1939, to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey.

125,725. **ANCHOR CAST.** STEEL IN FORM OF BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. Registered June 10, 1919. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa. Renewed June 10, 1939, to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey.

126,480. **A RAIN-WATER BARREL.** A WATER-SOFTENING COMPOUND. Registered August 26, 1919. SIERRA CHEMICAL COMPANY, Los Angeles, Calif. Renewed August 26, 1939, to The Climalene Company, Canton, Ohio, a corporation of Ohio, assignee.

126,552. **JAMES MOR-MILK.** CERTAIN NAMED BARN EQUIPMENT. Registered September 16, 1919. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis., a corporation of Wisconsin. Renewed September 16, 1939.

126,795. **TRUSCON.** CERTAIN NAMED CONSTRUCTION MATERIALS. Registered September 30, 1919. TRUSCON STEEL COMPANY, Youngstown, Ohio, a corporation of Michigan. Renewed September 30, 1939.

126,809. **YARWAY.** CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. Registered October 28, 1919. YARNALL-WARING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 28, 1939.

126,844. **FANNY FARMER.** CANDY. Registered October 7, 1919. FANNY FARMER CANDY SHOPS, INC., Rochester, N. Y., a corporation of New York. Renewed October 7, 1939.

126,911. **MOHAWK.** SHEETS, SHEETING, PILLOWCASES, AND COTTON PIECE GOODS. Registered October 7, 1919. UTICA STEAM & MOHAWK VALLEY COTTON MILLS. Renewed October 7, 1939, to Utica and Mohawk Cotton Mills, Inc., Utica, N. Y., a corporation of New York, by change of name.

126,976. **YARWAY AND DESIGN.** CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. Registered October 14, 1919. YARNALL-WARING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 14, 1939.

127,010. **HYFLUX.** SPECIAL-ALLOY MAGNET-STEEL. Registered October 21, 1919. CENTRAL STEEL & WIRE COMPANY. Renewed October 21, 1939, to The Indiana Steel Products Company, Chicago, Ill., a corporation of Indiana, assignee.

127,073. **CHIEFTAIN.** WHEAT-FLOUR. Registered October 21, 1919. LA GRANGE MILLS, Red Wing, Minn., a corporation of Minnesota. Renewed October 21, 1939.

127,169. **YARWAY.** RECORDING-METERS FOR LIQUIDS, SUCH AS WATER, OIL, AND ACID. Registered October 21, 1919. YARNALL-WARING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 21, 1939.

127,257. **YARWAY AND DESIGN.** RECORDING-METERS FOR LIQUIDS, SUCH AS WATER, OIL, AND ACID. Registered October 28, 1919. YARNALL-WARING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 28, 1939.

127,344. **GOLD CUP.** BREAD. Registered November 11, 1919. CABLE DRAPER BAKING CO. Renewed November 11, 1939, to Gordon Baking Company, Detroit, Mich., a corporation of Michigan, assignee.

127,464. **NORWESCO.** VALVE-GRINDING COMPOUND CLUTCH AND BRAKE COMPOUND, ETC. Registered November 11, 1919. THE NORTHWESTERN CHEMICAL Co. Renewed November 11, 1939, to Atlas Chemical Company, Marietta, Ohio, a corporation of Ohio, assignee.

127,474. **VARSITY CLUB.** SHAVING-CREAM. Registered November 11, 1919. PENINSULAR CHEMICAL Co. Renewed November 11, 1939, to The Penslar Company, Detroit, Mich., a corporation of Michigan, by change of name.

127,486. **BLACK KING.** FILES AND RASPS. Registered November 11, 1919. THE REX FILE COMPANY, Newcomerstown, Ohio. Renewed November 11, 1939, to Heller Brothers Company, Newark, N. J., a corporation of New Jersey, assignee.

127,506. **A CHILD WITH AN UMBRELLA.** A WATER-SOFTENING COMPOUND. Registered November 11, 1919. SIERRA CHEMICAL COMPANY, Los Angeles, Calif. Renewed November 11, 1939, to The Climalene Company, Canton, Ohio, a corporation of Ohio, assignee.

127,518. **TRACTOIL.** PETROLEUM PRODUCTS—VIZ., LUBRICATING-OILS, AND PARTICULARLY MOTOR AND MACHINE OILS AND TRACTOR-LUBRICANTS. Registered November 11, 1919. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Renewed November 11, 1939, to The Texas Company, New York, N. Y., a corporation of Delaware, assignee.

127,641. **ALLRITE.** VEGETABLE SHORTENING. Registered November 18, 1919. JOHN MORRELL & Co., Ottumwa, Iowa, a corporation of Maine. Renewed November 18, 1939.

127,656. **NORWESCO.** AIR-DRYING ENAMEL, READY-MIXED RIM-PAINT, ENGINE-ENAMEL, READY-MIXED TIRE-PAINT, BRONZE PAINT, VARNISH, PRUSSIAN BLUE IN OIL, FURNITURE-POLISH, AND SHELLAC. Registered November 18, 1919. THE NORTHWESTERN CHEMICAL Co. Renewed November 18, 1939, to Atlas Chemical Company, Marietta, Ohio, a corporation of Ohio, assignee.

127,667. **HERB-OX.** BOUILLON-CUBES AND VEGETABLE AND BEEF EXTRACTS IN SOLID AND FLUID FORM. Registered November 18, 1919. PURE FOOD FACTORY "HANSA", Mamaroneck, N. Y., a corporation of New York. Renewed November 18, 1939.

127,678. **PREFET.** CANNED SARDINES, CANNED PEACHES, AND CANNED TOMATOES WITH PUREE FROM TRIMMINGS. Registered November 18, 1919. SANTA CRUZ CANNING CORPORATION, San Francisco and Santa Cruz, Calif. Renewed November 18, 1939, to Hovden Food Products Corporation, Monterery, Calif., a corporation of California, assignee by mesne assignments.

127,703. **ELEPIZONE.** A MEDICINAL TREATMENT FOR EPILEPSY. Registered November 18, 1919. GEORGIANA M. WHITCOMB. Renewed November 18, 1939, to Ellaline W. Chilvers, doing business as Root Medicine Company, New York, N. Y., assignee.

LABELS

REGISTERED JUNE 27, 1939

53,170.—*Title:* RELAXATION A SAFE CORN AND CALLUS REMOVER. For a Pharmaceutical Preparation for the Removal of Corns and Calluses. ALLEN CHEMICAL CO. INC., New York, N. Y. Published April 15, 1939.

53,171.—*Title:* BEECH-NUT ASSORTED COOKIES. For Assorted Cookies. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 30, 1939.

53,172.—*Title:* BAUME BENGUÉ. For Analgesic Balm. BENGUÉ, INC., Union City, N. J. Published May 12, 1939.

53,173.—*Title:* LAND O' HILLS 'CREAMERY BUTTER MEMBERS W. VA. RETAIL GROCERS ASSN.' For Creamery Butter. BOWSER SALES & TRADING CORPORATION, INC., doing business as Land O' Hills Creamery, Sistersville and Buckhannon, W. Va. Published April 1, 1939.

53,174.—*Title:* LAND O' HILLS 'W VA B. M. A.' PURE CREAM BUTTER. For Creamery Butter. BOWSER SALES & TRADING CORPORATION, INC., doing business as Land O' Hills Creamery, Sistersville and Buckhannon, W. Va. Published March 1, 1939.

53,175.—*Title:* CREAM GOLD 'CREAMERY BUTTER MEMBERS W. VA. RETAIL GROCERS ASSN.' For Creamery Butter. BOWSER SALES & TRADING CORPORATION, INC., doing business as Land O' Hills Creamery, Sistersville and Buckhannon, W. VA. Published April 1, 1939.

53,176.—*Title:* NECTAR. For Coffee. BRAZILIAN & ARABIAN COFFEE CO., INC., New York, N. Y. Published April 30, 1939.

53,177.—*Title:* DISTINCTIVE FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published May 27, 1939.

53,178.—*Title:* KOKANUT KREME. For a Frozen Dessert. COCOANUT PRODUCTS CO., Lakeland, Fla. Published February 15, 1939.

53,179.—*Title:* ROACH NIBS. For an Insecticide. RICHARD L. GILLES, doing business as Gilles Products Company, Fargo, N. Dak. Published November 1, 1938.

53,180.—*Title:* BLACK JACK. For an Apple Cider Beverage. HOWARD C. GREEN, Medina, N. Y. Published January 30, 1939.

53,181.—*Title:* TAMPA PRINCE. For Cigars. VINCENZO GUERRIERI, Tampa, Fla. Published April 10, 1939.

53,182.—*Title:* DANDY. For Chewing Gum. GUMAKERS OF AMERICA, INC., Clifton Heights, Pa. Published April 14, 1939.

53,183.—*Title:* GUSLER'S GENUINE NON-CRUMBLING WALLPAPER CLEANER. For a Wall-Paper Cleaner. GUSLER'S PRODUCTS CO., Fort Sumner, N. Mex. Published May 1, 1939.

53,184.—*Title:* LAZEE LACERS. For Adjustable Shoe Laces. GUST CORPORATION, Chicago, Ill. Published April 3, 1939.

53,185.—*Title:* AUTOMATIC BINGO NEW EXCITING GAME. For Automatic Game. KARSON MFG. CO. INC., New York, N. Y. Published April 17, 1939.

53,186.—*Title:* KROGER'S TWINKLE ICE CREAM MIX VANILLA FLAVOR. For an Ice Cream Mix. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio. Published May 24, 1939.

53,187.—*Title:* KROGER'S TWINKLE DELICIOUS CHOCOLATE FLAVOR ICE CREAM MIX. For an Ice Cream Mix. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio. Published May 24, 1939.

53,188.—*Title:* VIRGINIA STYLE POTATO CHIPS. For Potato Chips. KATHERINE KRONSBEIN, St. Louis, Mo. Published April 18, 1939.

53,189.—*Title:* KURLENE FOR EYELASHES. For Eyelash Cream. THE KURLASH COMPANY, INC., doing business as The Kurlash Co., Rochester, N. Y. Published May 2, 1939.

53,190.—*Title:* C.-P. CERTIFIED PURE ROOT BEER. For Root Beer. NORBERT L. LAMM, St. Louis, Mo. Published September 15, 1938.

53,191.—*Title:* SAVE THE BABY. For Liniment. WM. W. LEE & CO., INC., Watervliet, N. Y. Published May 1, 1939.

53,192.—*Title:* POPEYE. For Spinach. CARL R. MATTHES, Los Angeles, Calif. Published January 15, 1938.

53,193.—*Title:* MELT. For a Depilatory. MELT LABORATORIES, Los Angeles, Calif. Published October 21, 1938.

53,194.—*Title:* WHIMS, NORRIS EXQUISITE CANDIES. For Candies. NORRIS INCORPORATED, Atlanta, Ga. Published April 26, 1939.

53,195.—*Title:* PORTER'S WONDER WORKER. For a Radiator Cleaner. E. D. PORTER, Randolph, Mass. Published March 30, 1939.

53,196.—*Title:* PORTER SEAL. For a Mixture for Sealing Cracked Blocks, Heads, Boilers, and Leaky Radiators. EDWIN D. PORTER, Randolph, Mass. Published April 24, 1939.

53,197.—*Title:* PLANTATION PRIDE. For Minced Chicken. MADISON RAYBURN, doing business as Plantation Pride Company, McMinnville, Tenn. Published May 10, 1939.

53,198.—*Title:* RED-EE. For Prepared Cake Flour. RED-EE FOODS, INC., Los Angeles, Calif. Published April 10, 1939.

53,199.—*Title:* RUM AND MAPLE. For a Pipe Mixture of the Finest Selected Tobaccos. RUM AND MAPLE TOBACCO CORPORATION, New York, N. Y. Published March 20, 1939.

53,200.—*Title:* KRAFT'S DANDY. For Bread. SOUTH SIDE BAKING COMPANY, Indianapolis, Ind. Published April 20, 1939.

53,201.—*Title:* READY-TO-FREEZE. For an Ice Cream Mixture. STERILIZED PRODUCTS CORPORATION, New York, N. Y. Published May 15, 1939.

53,202.—*Title:* WIND-O-SHINE. For a Cleaner for Cleaning and Polishing All Glass Surfaces and Wind-Shields. MEYER LOUIS SWIMMER, doing business as Home Dry Cleaner Laboratories, Uniontown, Pa. Published May 24, 1939.

53,203.—*Title:* K T. For Kentucky Straight Bourbon Whiskey. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky. Published May 1, 1939.

53,204.—*Title:* FOUR WINDS. For Frozen Fresh Green Peas. UNITED FROSTED FOODS, INC., Chicago, Ill. Published April 15, 1939.

53,205.—*Title:* CONSTANT VELOCITY FREQUENCY RECORD. For Constant Velocity Frequency Records. UNIVERSAL MICROPHONE CO., LTD., Inglewood, Calif. Published April 1, 1939.

53,206.—*Title:* DAINT-EASE. For Suppositories. WOOD & CHAMPAINE, Philadelphia, Pa. Published April 21, 1939.

53,207.—*Title:* TYP-ROL. For a Type and Roll Refinisher. WRITE INCORPORATED, Bridgeport, Conn. Published May 15, 1939.

LABELS RENEWED

16,330. **GOLDEN ROD.** "GOLDEN ROD" FOR TABLETS. Registered May 7, 1912. OSBORN PAPER COMPANY, Marion, Ind., a corporation of Indiana. Renewed April 1, 1940.

PRINTS

REGISTERED JUNE 27, 1939

17,462.—*Title:* DWIN INSECT KILLER AS FRAGRANT AS FLOWERS IN MAY—DWINAX THE FRAGRANT FLOOR WAX. For an Insect Killer and a Floor Wax. BALDWIN LABORATORIES, INC., Saegertown, Pa. Published March 1, 1939.

17,463.—*Title:* DISHES WASH THEMSELVES WITH. For Dishwashing Compounds, Scrubbing Soaps, Oil Soaps, a Tile Enamel and Porcelain Cleaner and Soap Dispensers. H. L. HAMBURGER, Baltimore, Md. Published May 20, 1939.

17,464.—*Title:* FURNITURE CREAM SAVES THE FINISH. For Lamb's Wool Applicators, Coal Tar Disinfectants, Fly Sprays, and Metal Polishes. H. L. HAMBURGER, Baltimore, Md. Published May 20, 1939.

17,465.—*Title:* WHY SUFFER WITH YOUR FEET WHEN HEALTH SPOT SHOES WILL GIVE YOU FOOT HEALTH AND COMFORT? PEOPLE IN ALL WALKS OF LIFE NEED HEALTH SPOT SHOES, GET THE INSIDE STORY OF HEALTH SPOT SHOES. For Shoes. MUSEBECK SHOE COMPANY, Danville, Ill. Published May 5, 1939.

17,466.—*Title:* 7 PEOPLE OUT OF 10 HAVE OR WILL HAVE FOOT TROUBLE, NATIONAL FOOT HEALTH WEEK, MAKE EVERY WEEK FOOT HEALTH WEEK. For Shoes. MUSEBECK SHOE COMPANY, Danville, Ill. Published March 30, 1939.

17,467.—*Title:* EARLY AMERICAN—OLD SPICE TOILETRIES FOR MEN. For Toiletries for Men. SHULTON, INC., New York, N. Y. Published May 1, 1939.

17,468.—*Title:* JUNIOR TASTYKAKE. For Cake. TASTY BAKING COMPANY, Philadelphia, Pa. Published May 15, 1939.

REISSUES

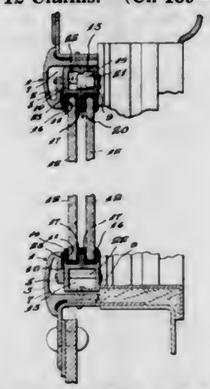
JUNE 27, 1939

21,126
WINDOW CONSTRUCTION

Roy T. Axe, Syracuse, N. Y., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y., a corporation of New York

Original No. 2,067,654, dated January 12, 1937, Serial No. 22,028, May 17, 1935. Application for reissue January 6, 1939, Serial No. 250,381

12 Claims. (Cl. 189—64)



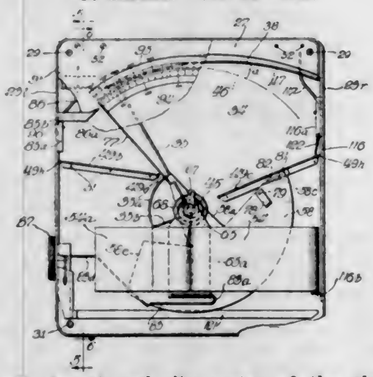
1. In a double window sash construction, the combination of opposing sash frame sections, each having channels for holding a glass pane independently of the other, means for clamping the sections together, and compressible sealing means between the sash sections and individual thereto, and arranged to compress one on the other when the sash sections are clamped together.

21,127
AIR VELOCITY METER

John R. Boyle, Chicago, Ill., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Original No. 2,060,848, dated November 17, 1936, Serial No. 703,753, December 23, 1933. Application for reissue June 23, 1937, Serial No. 149,918

37 Claims. (Cl. 73—202)



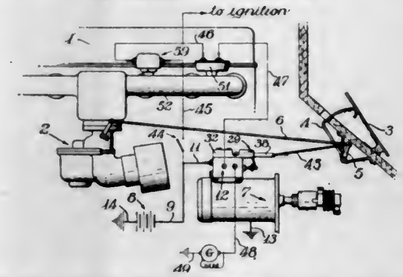
1. In an air velocity meter of the class described, the combination of a casing, an air channel defined in said casing for directing an air flow therethrough, a moving system comprising a vane, indicating means and a balancing segment, said vane extending into said air channel in position to be deflected through a limited range of oscillatory movement by the velocity of the air flow through said channel, said indicating means indicating the range of deflection of said vane, said balancing segment depending below said vane and lying substantially at right angles thereto and balancing said vane and indicating means, and a permanent magnet comprising pole extremities defining an air gap, said balancing segment moving through said air gap.

21,128
STARTER CONTROL FOR INTERNAL COMBUSTION ENGINES

Manuel H. Elkin, Elmira Heights, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original No. 2,067,180, dated January 12, 1937, Serial No. 61,209, January 28, 1936. Application for reissue October 15, 1938, Serial No. 235,261

16 Claims. (Cl. 290—37)



1. In combination with an internal combustion engine and a starting system therefor including a magnetic starting switch, a manually operable control member, and means operable thereby for moving the switch toward closed position but inoperative to close the switch.

21,129
APPARATUS FOR EVAPORATING AND DISTILLING

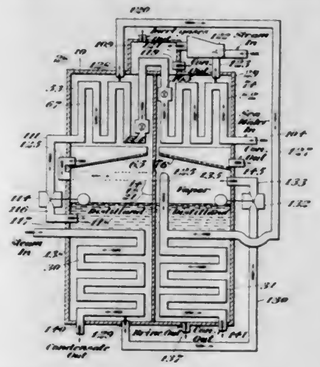
Benjamin Fox, Wollaston, and Charles E. Ericson, South Braintree, Mass., assignors, by mesne assignments, to Buena Vista Iron Company, a corporation of New Jersey

Original No. 2,078,377, dated April 27, 1937, Serial No. 580,286, December 11, 1931. Renewed May 4, 1935. Application for reissue March 28, 1938, Serial No. 198,562

16 Claims. (Cl. 202—174)

13. In apparatus for distilling a liquid, a single container, wall means within said container dividing the same into a first compartment and a second compartment so as to form separate distilling effects, heater means in each of said compartments each comprising a conduit for conducting fluids in heat exchanging relation with liquid to be evaporated in said compartments, a first condenser chamber connected to receive vapor from said first compartment, a second con-

denser chamber connected to receive vapor from said second compartment, means for conducting cooling liquid in excess of distilland requirements in heat exchanging relation with vapor in the second condenser chamber, means for discharging said excess from said distilling apparatus, means for conducting said distilland requirement liquid in heat exchanging relation with vapor in the first condenser chamber and then into said first compartment, means for supplying a heating fluid into the conduit of the heater means in said first compartment whereby the distilland therein is evaporated and some of the



vapor evolved is condensed in the first condenser chamber by heat exchange with the conducting means of the incoming distilland, conduit means for conducting residuum distilland from said first compartment to said second compartment, conduit means for conducting uncondensed vapor from the first condenser chamber into the conduit of the heater means of said second compartment whereby the distilland in said second compartment is evaporated and the vapor so evolved is condensed in the second condenser chamber, means for collecting for use condensates formed in said condenser chambers, and vapor exhausting means communicating with said second condenser chamber

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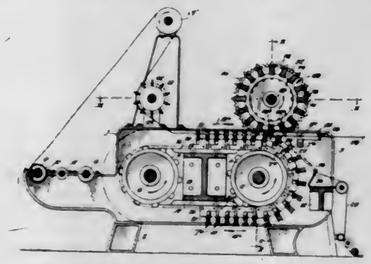
21,130

WIRE FABRIC MAKING MACHINE

Israel C. Gellman, Rock Island, Ill., assignor to Northwestern Steel and Wire Company, a corporation of Illinois

Original No. 1,905,086, dated April 25, 1933, Serial No. 561,527, September 8, 1931. Application for reissue April 24, 1939, Serial No. 269,803

14 Claims. (Cl. 140—4)



1. In a machine for making wire fabric embodying means for receiving line and mesh wires, additional means movable bodily with respect to said first means for simultaneously feeding line and mesh wires in alternate arrangement into said first means including means for simultaneously deflecting the mesh wires on opposite sides of each line wire toward and away from the line wire, and said first means including instrumentalities for wrapping the deflected portions about the adjacent portions of the line wires, said mesh wires being deflected prior to their introduction into said instrumentalities.

21,131

COMB

William Huppert, New York, N. Y., assignor to Delamere Company, Inc., a corporation of Delaware

Original No. 2,113,546, dated April 5, 1938, Serial No. 133,961, March 31, 1937. Application for reissue February 17, 1939, Serial No. 256,884

5 Claims. (Cl. 132—20)



1. A comb comprising a top or back, a series of teeth extending downwardly in a plane substantially parallel to and spaced from the plane of the back, said teeth being substantially parallel to each other and having integral root portions that connect the teeth to the back, said root portions bridging over the space between the back and the teeth with no portion of the roots projecting above the upper edge of the back and with said root portions spaced apart from one another to permit of the passage of hair therebetween.

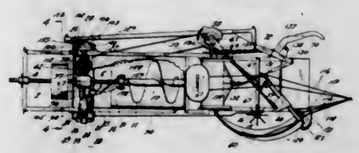
21,132

APPARATUS FOR BALING

George Innes, Davenport, Iowa, assignor, by mesne assignments, to Innes Company, Bettendorf, Iowa, a corporation of Delaware

Original No. 2,080,316, dated May 11, 1937, Serial No. 569,641, October 19, 1931. Application for reissue November 30, 1938, Serial No. 243,288

27 Claims. (Cl. 100—20)



26. A structure for the baling of vegetable matter comprising receiving and compacting chambers for stalks of vegetable matter in disorganized arrangement, means therein for organizing the arrangement of the stalks in general parallelism with relation to generally proximal stalks and the stalks generally in substantially spiral arrangement and for compacting the stalks so arranged into a bale, and a needle for use in tying said stalks into a bale, said needle being operated by the operating means for the arranging means.

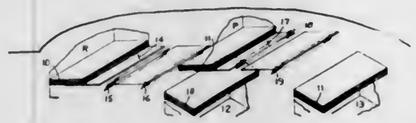
21,133

PERFORATING MACHINE

Clair D. Lake, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original No. 2,032,805, dated March 3, 1936, Serial No. 685,379, August 9, 1933. Application for reissue September 21, 1937, Serial No. 164,882

35 Claims. (Cl. 164—115)



1. In a machine for reproducing a set of perforated record cards under control of a set of pattern cards, card feeding means for feeding cards from both sets in synchronism comprising Geneva drive gearing for feeding the record cards with intermittent movement, means for sensing the pattern cards, perforating devices, and means under control of the sensing devices for operating the perforating devices to punch the record cards to correspond with the pattern cards.

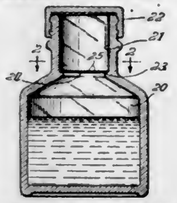
21,134

INKWELL BOTTLE

George R. Weisz, Chicago, Ill.

Original No. 2,061,262, dated November 17, 1936, Serial No. 21,668, May 15, 1935. Application for reissue November 17, 1938, Serial No. 241,062

18 Claims. (Cl. 120—69)



1. An ink bottle comprising a vessel having a reservoir, an elevated filling well, and a horizontally disposed foraminous diaphragm separating said reservoir and well, said diaphragm having a relatively large open area divided into relatively small openings of such area that the menisci thereacross will support a substantially balanced head of ink in the well by the air trapped within the reservoir and also readily collapse to permit rapid flow of ink through the diaphragm in either direction under an unbalanced head of ink on the diaphragm when the bottle is tilted.

PLANT PATENTS

GRANTED JUNE 27, 1939

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

333

ROSE

Joseph Proietti, San Leandro, Calif.

Application February 7, 1938, Serial No. 189,034

1 Claim. (Cl. 47—61)

The new variety of rose as disclosed, characterized by a bush plant producing relatively large, double flowers which flowers are darker in color than that of the Dame Edith Helen and lighter in color than that of the Hollywood, which color is substantially a relatively deep rose madder tending toward purple madder, said flowers being from about 4 to about 5 inches in breadth when in full bloom and of the color and character resulting from a bush rose produced by cross-pollinization of a Hollywood on a Dame Edith Helen.

PATENTS

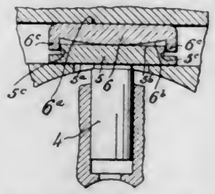
GRANTED JUNE 27, 1939

2,163,570

PISTON AND REACTANCE COMBINATIONS FOR RADIAL PISTON PUMPS AND MOTORS

Elek K. Benedek, Bucyrus, Ohio

Application November 11, 1935, Serial No. 49,261
9 Claims. (Cl. 103—161)



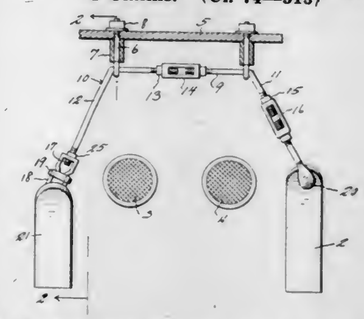
8. A piston and head structure for a radial piston pump or motor having a pair of rotors corotatable about parallel axes, one rotor having a radial cylinder, a piston therein, guideways in the other rotor extending normal to the cylinder axis for accommodating the piston head structure for oscillation therealong and for cooperating therewith to transmit hydraulic load and torque, comprising a head portion connected to the piston and extending generally normal to the piston axis, a head portion operatively connected to the first head portion for load transmission axially of the piston, said head portions having space-defining faces contiguous to each other between said guideways and being conjointly formed to provide space between at least the marginal portions of the contiguous faces and said head portions being connected for relative rocking with respect to each other for compensating for misalignment of the guideways and cylinder axis, and constrained from appreciable relative bodily movement parallel to the guideways.

2,163,571

AUXILIARY ACCELERATOR PEDAL

Albert L. Brock, Buffalo, Wyo.

Application February 2, 1939, Serial No. 254,283
4 Claims. (Cl. 74—513)



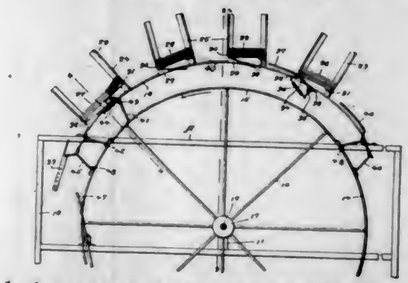
1. An auxiliary operator for a motor vehicle accelerator, comprising a substantially U-shaped frame having an intermediate portion and two divergently related side portions, means for pivotally supporting said intermediate portion horizontally adjacent the floorboard of the motor vehicle, the end of one of said side portions being designed for engagement upon the accelerator pedal, an auxiliary pedal pivotally mounted adjacent the opposite side of the frame, and a hinge connection between the auxiliary pedal and the said opposite side portion of the frame.

2,163,572

ENVELOPE-STUFFING MACHINE

Alvin B. Crosby, Dallas, Tex.; Lena Crosby administratrix of said Alvin B. Crosby, deceased

Application November 16, 1937, Serial No. 174,875
7 Claims. (Cl. 93—6)



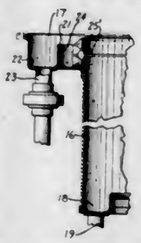
1. A machine of the character described comprising a rotor, laterally adjustable spaced upwardly arched bows arranged with respect to said rotor at opposite sides of the same, an envelope rack carried by said bows and variable in size on adjustment of the bows, a sheet paper rack carried by said bows and variable in size on adjustment of said bows, and gathering and tucking means on the rotor and movable into position for gathering sheet paper from said sheet paper rack and tucking the same within an envelope in the envelope rack.

2,163,573

FLUID IRRADIATOR

Merrill J. Dorcas, Berea, Ohio, George C. Supplee, Bainbridge, N. Y., and Frank Remesch, Jr., Parma, Ohio, assignors of one-half to The Borden Company, a corporation of New Jersey, and one-half to National Carbon Company, Inc., a corporation of New York

Application April 2, 1935, Serial No. 14,206
15 Claims. (Cl. 250—49)



1. In a device for irradiating liquids, the combination of means having a film supporting surface, said means being provided with a slit near the top thereof; a receptacle on said means on

the side opposite to said surface and extending above and below said slit and extending at least the length of said slit, said receptacle being provided wtih a baffle therein extending above and below said slit; and means for supplying liquid to said receptacle on the side of the baffle opposite said slit.

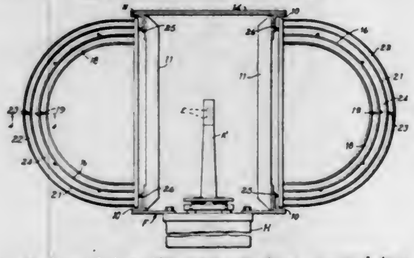
12. In an irradiating apparatus, the combination of a substantially vertical, curved surface adapted to receive liquid to be irradiated during flow thereover, said surface being provided near the top thereof with a curved slit for supplying a flow of liquid thereto, said slit being substantially normal to the direction of said flow; with means for adjusting the position of said surface about axes at substantially right angles to each other to level said slit over all portions thereof.

2,163,574

FLUID IRRADIATOR

Merrill J. Dorcas, Berea, Ohio, George C. Supplee, Bainbridge, N. Y., and Frank Remesch, Jr., Parma, Ohio, assignors of one-half to The Borden Company, a corporation of New Jersey, and one-half to National Carbon Company, Inc., a corporation of New York

Original application April 2, 1935, Serial No. 14,206. Divided and this application September 18, 1937, Serial No. 164,464
16 Claims. (Cl. 250—49)



1. A liquid-treating apparatus comprising, in combination, a continuous surface of non-circular curvature adapted to support a film of liquid flowing thereover, and a source of radiant energy located substantially on an axis of said surface; said axis being spaced from said surface, and said surface being so shaped that radial lines in any plane perpendicular to said axis and forming equal angles at said axis intercept equal segments of the line of intersection of such surface with such plane, and the distance from said axis to said line along said radial lines decreasing with increasing obliqueness of said radial lines to said line.

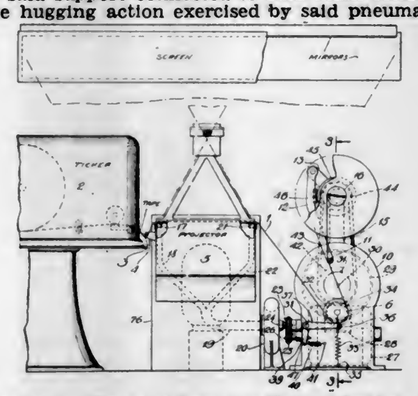
2,163,575

STOCK QUOTATION PROJECTING MACHINE

Eric J. Anderson, Brooklyn, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York

Application June 18, 1935, Serial No. 27,153
Renewed September 24, 1938
13 Claims. (Cl. 271—2.3)

1. The combination with a support, of a tape puller for pulling the tape across said support as it is supplied thereto, and pneumatic means independent of said tape puller for pneumatically hugging the tape to the entrance and discharge ends of said support both when the tape is moving and at rest, said pneumatic means consisting of a blower, a main suction conduit connected to said blower and branch conduits terminating in orifices disposed at the entrance and discharge ends of said support connected to said main conduit, the hugging action exercised by said pneumatic



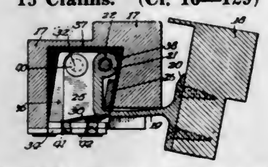
means on the tape being uniform whether the tape puller is operating or at rest.

2,163,576

HINGE

Maud L. Anderson, Aurora, Ill.

Application May 7, 1937, Serial No. 141,209
15 Claims. (Cl. 16—129)



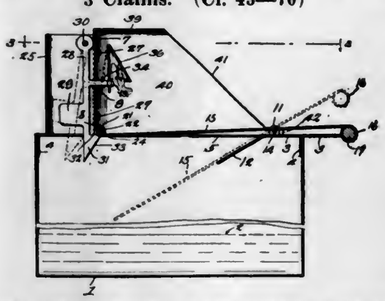
15. A concealed hinge of the character described embodying a door member, a pillar member, means forming a pivotal connection between said members, means pivotally connecting said pillar member to a pillar of a door opening, and adjusting means carried by a stationary support, said pillar member having a contact surface adjacent to the said support for the said adjusting means, said surface being remote from and transverse to the axis of the second recited pivotal means, said adjusting means engaging such surface for moving the pillar member about the last recited pivotal means.

2,163,577

ANIMAL TRAP

Edward L. Allen, Tampa, Fla.

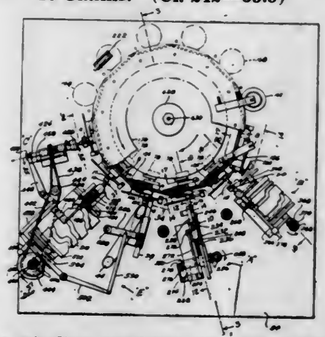
Application September 21, 1937, Serial No. 164,974
3 Claims. (Cl. 43—70)



1. A trap comprising a support having an opening, a tiltable platform movable through the

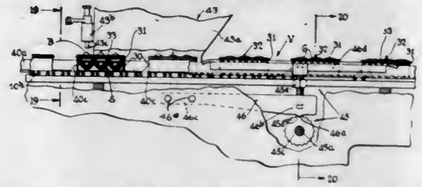
opening, a shaft carrying the platform for tilting movement and assembled with the support, and an enclosure member cooperating with the support, the support having a wall closing the rear end of the enclosure member, a trigger mounted for swinging movement, the trigger comprising a part which engages the platform detachably, to hold the platform in an approximately horizontal position, the trigger embodying a bait carrying means extended through the wall and located within the enclosure member, the enclosure member being pivotally mounted on the shaft, whereby the enclosure member may be swung forwardly away from the wall, thereby to expose the bait carrying means.

2,163,578
WINDING MACHINE
Dickerson G. Baker, Holyoke, and Dwight R. Gardner, Springfield, Mass., assignors to The American Thread Company, New York, N. Y., a corporation of New Jersey
Application June 6, 1935, Serial No. 25,206
40 Claims. (Cl. 242—35.5)



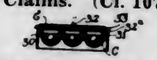
1. In a winding machine, the combination of a turret, a plurality of winding heads carried by the turret each including a winding spindle horizontally arranged, means for intermittently rotating the turret to successively move the winding heads to a predetermined station, a magazine for cop cores in which the cores are arranged one upon the other in end to end relation, a pivoted gate having a recess therein for receiving the lowermost one of the cop cores, said magazine and gate being mounted at said station in fixed position with relation to said turret, and means for turning the gate to position the core in alinement with the spindle when the spindle is at said station, and for relatively moving the gate and spindle to position the cop core on the spindle.

2,163,579
MANUFACTURE OF CONFECTIONS
Henry E. Bianchi, Rutherford, N. J., assignor to G. Cella, Inc., a corporation of New York
Application November 6, 1936, Serial No. 109,406
6 Claims. (Cl. 107—54)



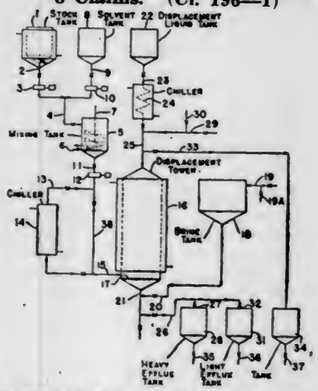
1. In a method for making confections, the steps of simultaneously spreading separate plastic closure deposits from smaller to larger size area coverings, and sealing shells by flexing said larger sized coverings by applying successive portions thereof to said shells.

2,163,580
CONFECTION MAKING APPARATUS
Henry E. Bianchi, Rutherford, N. J., assignor to G. Cella, Inc., a corporation of New York
Original application November 6, 1936, Serial No. 109,406. Divided and this application April 24, 1937, Serial No. 138,680
15 Claims. (Cl. 107—1)



1. In an apparatus for making a confection of the character described, a multi-cavity mold, a flat unperforated plate having one side thereof serving as a cover for all the cavities of said mold, aligning means for removably securing the plate on the mold with the other side of the plate facing the mold, and flexible sheet material loosely fitted on a side of the plate facing the mold.

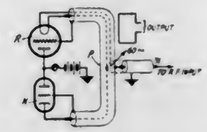
2,163,581
PURIFICATION OF CRYSTALLIZABLE DERIVATIVES OF COAL TAR
James H. Boyd, Jr., Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 18, 1936, Serial No. 91,266
8 Claims. (Cl. 196—1)



1. The process for separating impurities from a crystallizable polynuclear aromatic hydrocarbon, which comprises producing a mixture containing a crystallizable polynuclear aromatic hydrocarbon and a solvent liquid, cooling said mixture to form a crystalline mass of said polynuclear aromatic hydrocarbon containing solvent and impurities, and displacing from said mass, without substantial agitation thereof and under a relatively low differential pressure, the solvent and impurities with an organic displacing liquid.

2,163,582
SHORT WAVE TRANSMITTER
Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application October 19, 1936, Serial No. 106,350
In Germany November 30, 1935
14 Claims. (Cl. 179—171)

9. In an amplifier circuit, a multi-electrode electron discharge device having a cathode and a grid, a section of concentric line whose outer conductor forms a part of a resonant circuit, means for supplying input signals between the inner and outer conductors of said line at a voltage nodal point on said resonant circuit, and connections



for impressing upon said grid and cathode the potential difference existing between said conductors at a point on said resonant circuit having relatively high radio frequency potentials, said resonant circuit forming a tank for said electron discharge device.

2,163,583
TREATMENT OF MAGNESIUM AND ITS ALLOYS
Robert W. Buzzard, Kensington, Md.
No Drawing. Application November 26, 1937, Serial No. 176,651
6 Claims. (Cl. 148—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

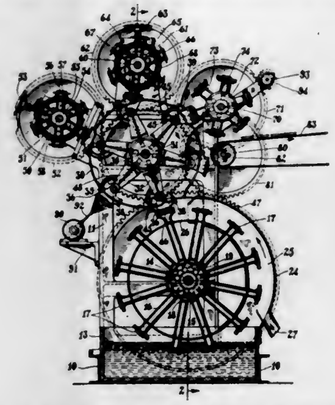
1. A method of forming a protective coating on magnesium and magnesium alloys, comprising immersing the metal to be coated in a bath containing chromic acid and phosphoric acid adjusted to a pH within the range of pH 0.5 to pH 3.5.

2,163,584
PREPARATION OF POLYAMIDES
Wallace H. Carothers and George D. Graves, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 1, 1936, Serial No. 113,723
17 Claims. (Cl. 260—78)

1. A process for making polyamides which comprises preparing in an aqueous medium a solution of ingredients in which substantially the sole reactants consist of a diamine whose sole titratable groups are the amino groups and whose amino nitrogens each carries at least one hydrogen atom, and a dibasic dicarboxylic acid in equimolecular proportions, as indicated by titration, distilling off the aqueous medium, and heating the residue under polymerizing conditions.

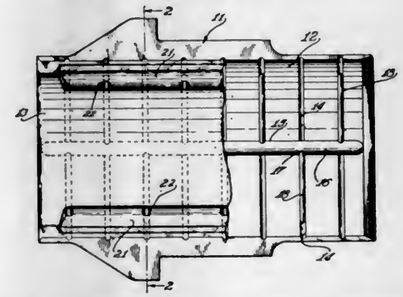
2,163,585
PULP MOLDING MACHINE
Merle P. Chaplin, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association
Application August 14, 1926, Serial No. 129,130
70 Claims. (Cl. 92—56)

1. A pulp molding machine comprising a pair of coacting dies, means for rotating said dies in opposite directions about spaced, parallel axes into engagement with each other and means for moving one of said dies into alinement with the other as the dies approach each other, one of said dies being a forming die and including a foraminous plate having an outer face shaped to conform to one face of the article produced, upon which face



the fibres are felted upon the application of reduced pressure upon its opposite face.

2,163,586
JOURNAL BEARING
Gilbert R. Coleman, Bellevue, N. Y.
Application October 19, 1936, Serial No. 106,458
5 Claims. (Cl. 308—79.1)

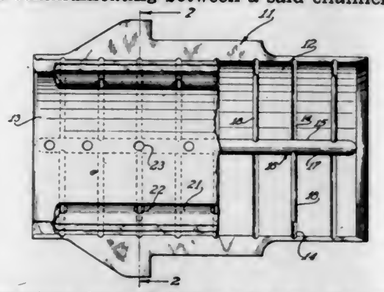


2. A journal bearing, comprising a body portion having a concave surface, a lining cast on said concave surface and having an exposed bearing surface and securely attached to said portion, a longitudinally extending reservoir disposed within said bearing adjacent the surface between said body portion and said lining, a pair of longitudinally extending channels in said exposed bearing surface, and a plurality of passageways interconnecting each of said channels with said reservoir, said passageways each comprising a separate conduit disposed adjacent the surface between said body portion and said lining and maintained in position by the lining.

2,163,587
JOURNAL BEARING
Gilbert R. Coleman, Bellevue, N. Y.
Application October 19, 1936, Serial No. 106,459
7 Claims. (Cl. 308—79.1)

5. A journal bearing, comprising a body portion having a concave surface, a lining secured to said surface, a pair of longitudinally extending channels in the bearing surface of said lining adjacent the lower edges thereof, and a plurality of separate conduits mounted in the bear-

ing between said body portion and said lining, each communicating between a said channel and



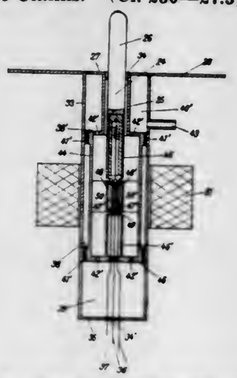
an aperture in said lining adjacent the center thereof.

2,163,588
HEMORRHAGE ARRESTER
Robert E. Cornish, Berkeley, Calif.
Application November 23, 1935, Serial No. 51,322
17 Claims. (Cl. 128—156)



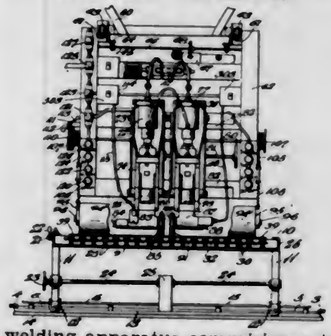
1. A hemorrhage arrester adapted to be pressed into an open bleeding wound for stopping the flow of blood and comprising, a soft resilient compressible porous body of blood repellant material being self retaining and resilient when subjected to blood, and a water insoluble viscous grease carried by said body in a proportion effective to substantially fill the pores of said body on compression thereof into a wound at normal applying pressures to provide a substantially blood impervious plug in the wound.

2,163,589
ELECTRON TUBE
Walter Dällenbach, Berlin-Charlottenburg, and Alfred Allerding, Friedrichshagen, near Berlin, Germany, assignors to Julius Pintsch Kommanditgesellschaft, Berlin, Germany
Application June 18, 1936, Serial No. 85,980
In Germany June 20, 1935
6 Claims. (Cl. 250—27.5)



1. An ultra high frequency electron tube comprising a metallic envelope housing a set of electrodes including a thermionic cathode, said electrodes and envelope forming an oscillatory circuit, an extension of said enevelope forming beyond the region housing said set of electrodes a chamber having a length equal to an odd multiple of the quarter wave length of the length to be generated, and leads for said electrodes extending substantially axially of said envelope and through said chamber.

2,163,590
METHOD AND APPARATUS FOR WELDING CORRUGATED SHEETS TO FLAT SHEETS
Carl de Ganahl, Bristol, and Thomas B. Lavelle, Langhorne, Pa., assignors to Fleetwings, Inc., Bristol, Pa., a corporation of Delaware
Application September 9, 1937, Serial No. 163,018
40 Claims. (Cl. 219—4)



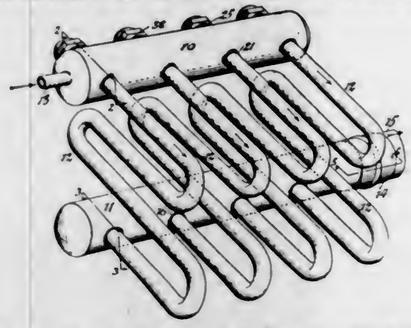
2. A welding apparatus comprising a traveling carriage, means supporting the carriage for horizontal movement, a welding roller mounted on the carriage, a table for supporting the work during the rolling movement of the electrode, means for holding the work in a predetermined position relative to the contact area of the rolling electrode during welding and said means comprising a rolling clamp arranged to hold parts of the work laterally spaced from the welding area of the work in a predetermined position to the welding area of the work to secure a predetermined contour to the finished welded work.

24. In welding apparatus, a table, a rolling electrode, means for securing longitudinal relative movement between the table and rolling electrode, a tensioning device for subjecting the work between the table and electrode to longitudinal tension during welding to obviate unevenness in the finished work.

2,163,591
MULTIPLE TUBE COIL UNIT
Charles N. Deverall, Buffalo, N. Y., assignor to Niagara Blower Company, New York, N. Y., a corporation of New York
Application June 3, 1937, Serial No. 146,225
10 Claims. (Cl. 62—126)

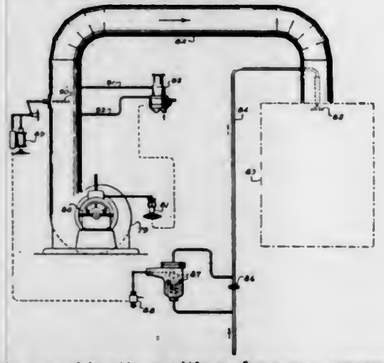
3. A coil unit for refrigerators comprising an inlet header adapted to receive a refrigerant, an outlet header adapted to discharge the refrigerant, a plurality of cooling tubes having opposite ends communicating with said inlet and outlet headers and a control device whereby an orifice of a definite size is produced and fixed for establishing said communication between the interior of each tube and the inlet header, said control device including a tubular body arranged within the inlet header and having one end of its interior communicating with the interior of the

respective tube and provided in its side with a port opening into the inlet header, a rotary plug arranged in said body and having a port adapted to be placed into more or less register with the port of said body for producing such orifice and



also provided with an outwardly extending operating stem, a collar surrounding said body, plug and stem and secured to said inlet header, a stuffing box mounted on said collar and surrounding said stem, and a cap secured to said collar and covering the outer end of said stem.

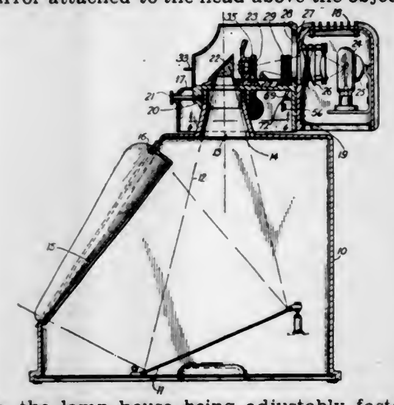
2,163,592
CONTROL SYSTEM
Paul S. Dickey, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Original application December 18, 1935, Serial No. 55,026. Divided and this application November 20, 1937, Seral No. 175,614
5 Claims. (Cl. 158—1)



1. In combination with a furnace, means for supplying one of the elements of combustion to the furnace, a meter of such supply, a conduit for another element of combustion supplied to the furnace, a valve in said conduit positioned responsive to said meter, means for pumping the element through said conduit, an engine driving said pumping means, and means responsive to the pressure differential across said valve for controlling the speed of said engine.

2,163,593
READING MACHINE
Rupert H. Draeger, United States Navy
Application April 6, 1937, Serial No. 135,265
6 Claims. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A reading machine comprising a projection chamber, a projection head on said chamber, the interior of the chamber communicating with the interior of the head through a hollow throat, said head having a hole in one of its walls, a film gate attached to the head and arranged in front of the lower portion of the hole, a reflecting prism attached to the head and located above the center of the hollow throat, an objective lens arranged between the film gate and the prism, a lamp house, a source of light within said house, a mirror attached to the head above the objective



lens, the lamp house being adjustably fastened to the wall of the head having the hole therein, whereby rays from the source of light may be successively directed along a plurality of predetermined paths into the projection chamber as desired, one path leading through the film gate to the projection lens, thence to the prism and through the throat of and into said chamber; and a second path leading over the film gate to the mirror, thence to be reflected onto the side of the film gate toward the objective lens and through the throat of and into said chamber.

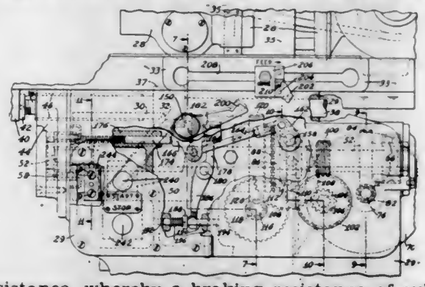
2,163,594
PROCESS FOR THE PRODUCTION OF AMINO ACIDS
William H. Engels, Rahway, and Gustav A. Stein, Elizabeth, N. J., assignors to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 1, 1936, Serial No. 113,608
4 Claims. (Cl. 260—534)

1. A process for the production of amino carboxylic acids which comprises ammonolysis of an appropriately selected halogenated organic acid in the presence of an ammonium halide, the said halide being retained in the reaction mixture throughout the entire reaction.

2,163,595
POWER TRANSMISSION MECHANISM
John E. Englund, Warwick, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application January 24, 1938, Serial No. 186,575
20 Claims. (Cl. 192—145)

1. In a power transmission mechanism, the combination of a driven element and a driving element, means for connecting and disconnecting the driving element from power operation to start and stop the driven element, means for maintaining a resisting torque of substantially uniform value in said transmission mechanism including means for imposing a drag resistance upon said

transmission mechanism, and means responsive to variations in the resisting torque to effect compensatory variations in the amount of said drag



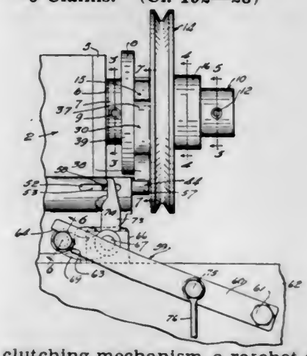
resistance, whereby a braking resistance of substantially uniform value is maintained in stopping to produce an over-run of the driven element of a predetermined constant amount.

2,163,596

CLUTCHING MECHANISM

Arnold Ferdinand Fischer, Astoria, Long Island, N. Y., assignor to Hobbs Sales & Service Station, Inc., New York, N. Y., a corporation of New York

Application February 8, 1938, Serial No. 189,460
6 Claims. (Cl. 192—28)



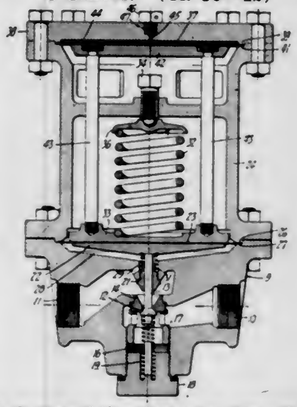
1. In a clutching mechanism, a ratchet element adapted to be secured to and bodily carried with a revoluble driving element, a revoluble driven element arranged in juxtaposition to said ratchet element, a normally stationary headed pivot mounted in and extended from said driven element, releasable means for normally holding said pivot stationary, said pivot capable of being revolved when said means is released, a pawl loosely mounted intermediate its ends on said pivot, a controlling spring on said pivot having one end fixed to the pawl and its other end to the pivot, said pivot when revolved adjusting the tension of said spring, said spring permanently tending to have one terminal portion of the pawl engaging with the ratchet element for clutching the driven element with the driving element, the other end terminal portion of said pawl being extended from said pivot element, a retractible and automatically extendible plunger element for coaction with the said other end terminal portion to provide for releasably holding the pawl in a predetermined position of disengagement with respect to the ratchet element and for tripping the pawl to disengage it from the ratchet element, and means for retracting the plunger element for releasing the pawl whereby the latter will engage the ratchet element.

2,163,597

FLUID FLOW REGULATOR

Marvin H. Grove, Berkeley, Calif.

Application August 7, 1936, Serial No. 94,783
6 Claims. (Cl. 50—12)



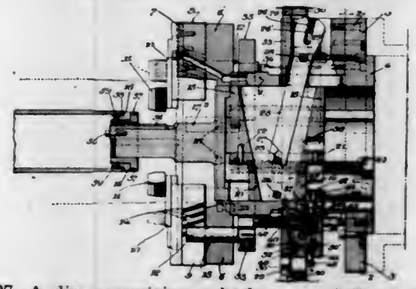
1. In a device of the character described, a body having an inflow opening adapted to be connected to a source of gas under pressure and also having an outflow opening for connection to a point of gas demand, a valve member cooperating with a valve seat in the body and movable in opposite directions between open and closed positions, and serving to control flow of fluid through the body, a movable fluid pressure operated member connected to the valve member, means for impressing varying fluid pressure on said member to urge said member in one direction, means for biasing said fluid operated member in an opposite direction, and means including a supplemental movable member serving to impose a restraint against abrupt movement of the valve member in the immediate proximity of its seat, without imposing a comparable restraint against like abrupt movement of the valve member from intermediate positions of the same.

2,163,598

THREADING DIE

William J. Hogg, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a corporation of Ohio

Application May 3, 1938, Serial No. 205,718
31 Claims. (Cl. 10—120.5)



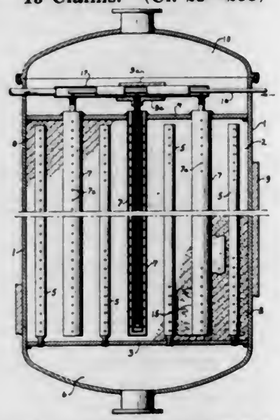
27. A die comprising a body, an axially shiftable slide therein and a sliding sleeve thereon, radially shiftable chasers carried by the body and connected with the sleeve for radially shiftable movement thereof, a compound pivotal connecting means between the slide and sleeve whereby a relative difference in movement is effected between the slide and sleeve to obtain a tapered threading of the work, said compound pivotal connecting means comprising a lever pivotally connected to the body and slide and a yoke pivotally connected to the body and sleeve and having pivotal connection with the lever, means for adjusting the chasers radially comprising means for moving a pivotal connection of said yoke, means for controlling the taper of the work comprising means for moving a pivotal connection of said lever, and means for controlling the length of thread of the work, said last means comprising a movable member secured to said axially shiftable slide.

2,163,599

CONTROL OF HEAT EXCHANGE

Eugene J. Houdry, Ardmore, Pa., assignor to Houdry Process Corporation, Dover, Del., a corporation of Delaware

Application June 12, 1936, Serial No. 84,787
13 Claims. (Cl. 23—288)



11. A heat exchange member adapted to be embedded in a contact mass and to effect and control heat exchange therewith which comprises two concentric tubular members of different sizes to provide the inner and outer walls of a closed annular chamber, a heat-conductive fluid medium within said annular chamber, means for circulating a heat exchange fluid along and in heat exchange relationship with the said inner wall of said annular chamber, a larger tubular member surrounding the aforesaid tubular members and spaced from the said outer wall of said annular chamber to provide a passageway therebetween, said larger tubular member having perforations or openings spaced from each other throughout the length thereof to provide for the distribution or collection of fluid, heat conducting members joining the said outer wall of said annular chamber in heat conducting relationship with said larger tubular member, said heat conducting members being arranged approximately symmetrically around and throughout the length of the said outer wall of said annular chamber, and fin members extending outwardly from said larger tubular member.

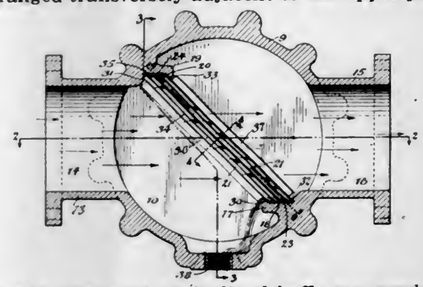
2,163,600

SEPARATOR

Harlan W. How, Titusville, Pa., assignor to Struthers Wells-Titusville Corporation, Titusville, Pa., a corporation of Maryland

Application November 24, 1937, Serial No. 176,311
4 Claims. (Cl. 183—110)

1. A fluid scrubber comprising a scrubbing chamber having a fluid inlet and a fluid outlet on its horizontally opposite sides, a channel shaped lower seat arranged within said scrubbing chamber transversely adjacent to the lower part of said outlet and a channel shaped upper seat arranged transversely adjacent to the upper part



of said inlet, and an inclined baffle arranged in said chamber between said inlet and outlet and engaging its lower end with said lower seat and its upper end with said upper seat and said lower channel seat being provided with drain passages leading to the inner edge of the same within said scrubbing chamber.

2,163,601

TRANSFER ARTICLE

James Thomas Humes, Harrisonburg, Va.

Application October 21, 1937, Serial No. 170,296
4 Claims. (Cl. 197—172)



1. As a new article of manufacture a typewriter ribbon comprising a fibrous foundation having on one side a transfer material for transferring visible impressions under pressure, and having on its other side a shield material consisting of a non-absorbent cementitious material and a suspension therein of fine metal particles.

2,163,602

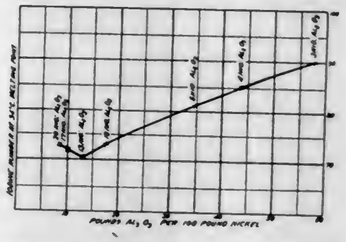
CATALYST FOR AND PROCESS OF SELECTIVELY CARRYING OUT CATALYTIC REACTIONS

Leslie G. Jenness, Brooklyn, N. Y., assignor to Intermetal Corporation, Newark, N. J., a corporation of Delaware

Application March 30, 1935, Serial No. 13,972
Renewed January 13, 1938
10 Claims. (Cl. 23—233)

6. The process of carrying out a catalytic reaction, comprising, bringing at least two fluid substances capable of partaking in more than one reaction with each other at an appreciable reaction velocity under the same conditions of reaction including temperature and pressure into contact with a leached metal oxide catalyst under said conditions of reaction, said catalyst being one which is prepared by forming an aggregate having one metal oxide chemically fixed to another metal oxide, one of said metal oxides being catalytically active for the promotion of more than one of said reactions and the other metal oxide being one which is capable of being leached from the catalytically active metal oxide without shattering the particles of said aggregate, said metal oxides being chemically fixed to one another in substantially that proportion which will give the final catalyst

the property of promoting said reactions with a greater ratio of reaction velocity of one of said reactions to the reaction velocity of any other of



said reactions than will result when the catalyst is prepared with any other proportions, and leaching said other metal oxide from the aggregate without shattering the particles.

2,163,603

PROCESS OF HYDROGENATION

Leslie G. Jenness, Englewood, N. J., assignor to Intermetal Corporation, Newark, N. J., a corporation of Delaware

No Drawing. Application February 4, 1938, Serial No. 188,785

20 Claims. (Cl. 87—12)

1. In the process of making a semi-solid edible hydrogenated soya bean oil product, the steps which comprise, hydrogenating said soya bean oil in the presence of a selective catalyst at a temperature between 280 and 380° F., and at a hydrogenation rate not substantially greater than a drop of 15 iodine numbers per hour and with sufficient agitation to produce a substantially uniform rate of reaction throughout the oil being hydrogenated to obtain an oil having a Wesson time not less than 10 hours by the time the iodine number of the oil has been reduced to 110, and then further hydrogenating said oil in the presence of a selective catalyst to the semi-solid state thereby producing a semisolid fat characterized by having substantial resistance to reversion to the characteristic soya bean oil flavor.

15. The method of producing a liquid oil having high keeping qualities from lyceride oils containing higher unsaturates than linolein, which comprises hydrogenating said oils in the presence of 0.2 to 0.025 per cent of nickel catalyst prepared by leaching chromium from and reducing an aggregate containing NiO and CrO_3 combined in a ratio of approximately 6 to 1, maintaining the temperature of the oil during hydrogenation between 280 and 380° F., agitating the oil during hydrogenation to maintain a substantially uniform reaction throughout said oil, and maintaining a hydrogen pressure on said oil sufficient to provide a hydrogen absorption rate not substantially greater than a drop of 15 iodine numbers per hour.

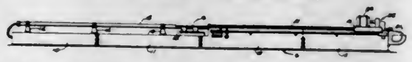
2,163,604

HONING MACHINE

Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois

Application April 21, 1937, Serial No. 138,127

14 Claims. (Cl. 51—34)



1. In a honing machine, in combination, an elongated frame, a longitudinally extending guideway on the frame, a head reciprocable on said guideway, an elongated tool supporting spindle journaled at one end in said head and reciprocable therewith, and a traveling steady rest for supporting the spindle at an intermediate point comprising front and rear members disposed on opposite sides of said head and mounted for reciprocation on said guideway, means rigidly connecting said members together, a bearing element on said front member for receiving the spindle, and latch means on said rear member for detachably connecting the member with said head to cause the steady rest to move with the head through a portion of its stroke.

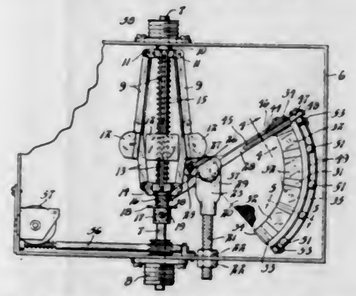
2,163,605

SPEED RESPONSIVE SWITCH

George L. Kampa, Minneapolis, Minn.

Application December 23, 1937, Serial No. 181,376

4 Claims. (Cl. 200—80)



1. In a speed indicating device for vehicles and the like, a speed responsive device adapted to be connected to a moving part of the vehicle, a series of spaced stationary contact elements, a movable contact element connected to said speed responsive device and adapted to engage said stationary contact elements, and means positioned adjacent said stationary contacts for retarding and then suddenly releasing said movable contact element.

2,163,606

SHIRT

Richard O. Kennedy, Troy, and Russell A. Ziegler, Douglaston, Long Island, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York

Application November 30, 1937, Serial No. 177,220

1 Claim. (Cl. 2—115)



A shirt having inner and outer overlapping front portions, the inner portion being provided with an opening near the waist line, a loop attached to the shirt above said opening, said loop being long enough to extend through said opening and thence engage over a fastener on a nether garment, said loop being elastic and being attached to said outer overlapping portion yieldingly to pull downwardly on the outer portion thereby to restrain the outer portion from bunching upwardly in various positions of the wearer.

2,163,607

MANUFACTURE OF ARTIFICIAL THREADS OR OTHER PRODUCTS FROM CELLULOSE COMPOUNDS

Leon Lilienfeld, Vienna, Austria

No Drawing. Application August 12, 1931, Serial No. 556,719. In Great Britain August 25, 1930

17 Claims. (Cl. 18—54)

1. A process of producing formed artificial structures which comprises acting upon cellulose in the presence of an alkali, with at least one halogenated organic substance from the herein described group consisting of—

(*a*) Di-halogen paraffins, including compounds of the type of ethylene chloride and trimethylene chloride (which may be regarded as neutral halogen-hydracid esters of di-hydric paraffin alcohols (glycols), and of the type of methylene chloride (which may be regarded as neutral halogen hydracid esters of glycols with two hydroxyl groups attached to one and the same carbon atom),
(*b*) Poly-halogen paraffins,
(*c*) Halogen olefins (neutral halogen hydracid esters of unsaturated alcohols),
(*d*) Halogen derivatives of ethers of mono-hydric alcohols,
(*e*) Halogen derivatives of aldehydes and ketones,
(*f*) Sulphochlorides of tertiary amines such as the sulpho-chloride of dimethyl-aniline,
(*g*) Halogen derivatives of higher fatty acids having at least 6 carbon atoms,
(*h*) Halogen derivatives of olefine mono-carboxyl acids,
(*i*) Halogen derivatives of hydroxy-acids including β-di-chloro-lactic acid and β-tri-chloro-lactic acid,
(*j*) Halogen derivatives of keto-carboxylic acids,
(*k*) Halogen derivatives of nitro-methane including chloro-picrin,
(*l*) Urea-halides, alkyl-urea halides, aralkyl-urea halides, and aryl-urea halides,
(*m*) Halogen derivatives of cyanogen including cyanogen halides and cyanuric halides (tri-cyanogen halides),
(*n*) Halogen derivatives of di-carboxylic acids including halogen succinic acid,
(*o*) Sulphochlorides of hydrocarbons, including ortho- and para-toluene sulphochloride, naphthalene sulpho-chloride,
(*p*) Halogen derivatives of halogenated alkyl phenyl ethers including benzoylated chloro-anisol,
(*q*) Acid halides including benzoyl halides, malonyl halides, di-ethyl malonyl halides,
(*r*) Halogen derivatives of aromatic mono-carboxylic acids,
(*s*) Halogen hydracid esters of phenyl glycols and phenyl-glycerines and of their derivatives, including ethers,
(*t*) Phenyl-halogen-fatty acids including phenyl-chloro-acetic acid and phenyl-chloro-propionic acid,
(*u*) Halogen derivatives of phenyl-paraffin-alcohol acids, including phenyl-halogen-lactic acid and phenyl-halogen-hydroxy-propionic acid,
(*v*) Halogen derivatives of olefine-benzols,
(*w*) Halogen derivatives of phenyl-olefine alcohols and hydroxy-phenyl-olefine alcohols,
(*x*) Halogen derivatives of pseudophenols, methylene quinones, and quinols, including ortho-hydroxy-mesityl chloride and piperonyl chloride,
(*y*) Sulphochlorides of phenyl-mono-hydroxy-carboxylic acids, including salicylic acid and cresotinic acid and chloro- and nitro-substitution products thereof,
(*z*) Halogen derivatives of condensed nuclei, including α-naphthalene-mono-halides and halogen naphthalenes,
(*a'*) Halogen derivatives of hydro-naphthalene compounds, including di-hydro-naphthalene-di-bromide and tetrahydro-naphthalene-glycol-chlorhydrin,
(*b'*) Halogen derivatives of hetero-cyclic compounds having one nitrogen atom in the ring, including halogen derivatives of pyridine and of its homologues, and halogen derivatives of quinoline and of its homologues and halogen derivatives of iso-quinoline and of its homologues,
(*c'*) Sulphochlorides of heterocyclic compounds which contain one nitrogen atom in the ring, including quinoline and pyridine,

and thereafter xanthating the product, dissolving the xanthated product in an alkaline solution, forming the solution into the shape of the structure desired, and introducing the shaped solution into a coagulating bath.

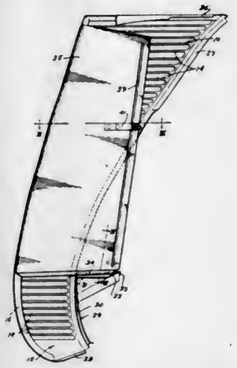
2,163,608

VEHICLE ACCESSORY

George Albert Lyon, Allenhurst, N. J.

Application January 21, 1937, Serial No. 121,412

16 Claims. (Cl. 293—54)



1. As an article of manufacture, a snap-in central baffle plate for vertical longitudinal disposition within a vehicle radiator grille having a portion thereof shaped to make a biting engagement with said grille, thereby to secure said baffle plate in desired position.

2,163,609

PLASTIC POLYMERIZED CHLOROPRENE ADHESIVE COMPOSITIONS

Alexander D. Macdonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Application November 22, 1935, Serial No. 51,114

7 Claims. (Cl. 260—32)

1. A liquid adhesive composition for securing

together parts of leather or other material, said composition comprising about 1 part by weight of plastic polymerized chloroprene dissolved in from about 4 to about 7 parts by weight of a solvent mixture of benzene and trichloroethylene, said benzene and trichloroethylene being present in said solvent mixture in approximately the following proportions by weight:

	Parts
Benzene	1 to 3
Trichloroethylene	5½ to 2

2,163,610

ADHESIVE COMPOSITIONS

Alexander D. Macdonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Application December 18, 1935, Serial No. 55,069

5 Claims. (Cl. 260—32)

2. The method of preparing a liquid adhesive composition from compounding ingredients including zinc oxide, magnesium oxide, and plastic polymerized chloroprene which has been deodorized by means of a selective solvent for the malodorant constituents thereof, which comprises milling all the zinc oxide and a major portion of the magnesium oxide with a portion of the plastic polymer, separately milling the balance of the magnesium oxide with the remainder of the plastic polymer, and dissolving the separately milled portions of compounded material in a solvent.

2,163,611

LIQUID ADHESIVE COMPOSITION

Alexander D. Macdonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Application December 28, 1936, Serial No. 117,902

5 Claims. (Cl. 260—32)

1. A liquid adhesive composition comprising malodorant-free plastic polymerized chloroprene, and compounding ingredients all dispersed in a solvent therefor, said composition being characterized by the joint presence of diethylamine and monoethanolamine therein in the total proportion by weight in the neighborhood of 5% of the polymerized chloroprene, and by resistance to thickening and gelling over a substantial period of time.

2,163,612

METHOD OF PREPARING AN ADHESIVE

Alexander D. Macdonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Original application November 22, 1935, Serial No. 51,114. Divided and this application April 23, 1937, Serial No. 138,631

3 Claims. (Cl. 260—89)

1. The method of preparing a liquid vulcanizable cement from plastic polymerized chloroprene and compounding ingredients and having a viscosity such that it may be readily spread over a surface to which it is to be applied which comprises dissolving the polymer together with the compounding ingredients in an amount of solvent less than sufficient to impart the desired viscosity to the resulting solution and adding to the solution a mixture of a solvent for said polymer and an "alcohol", thereby substantially reducing the viscosity of the solution without any coagulation of the dissolved ingredient.

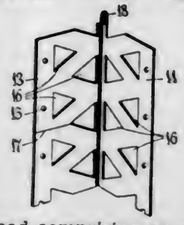
2,163,613

CORNER BEAD

John J. Manofsky, Warren, Ohio, assignor to National Gypsum Company, Buffalo, N. Y.

Application June 12, 1937, Serial No. 147,881

8 Claims. (Cl. 72—121)



7. A corner bead comprising an elongated metallic element of angular cross section one flange of which has an inner row of aligned openings adjacent the meeting line of the flanges of said element, each opening of said row having a defining edge portion comprising a straight line extending parallel to said meeting line and constituting the greatest dimension of said opening, the dimension of said edge portion being greater than the space between adjacent openings, and an outer row of aligned openings adjacent the outer margin of said flange, the openings in the outer row being staggered with respect to the openings of the inner row.

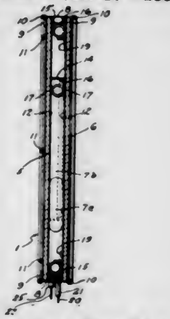
2,163,614

LUMINOUS TUBE SIGN

Irving V. Mansell, Bridgeport, Conn.

Application November 30, 1937, Serial No. 177,260

35 Claims. (Cl. 40—133)



1. In an electric sign, a glass face plate having on one face thereof a character stroke permitting passage of light therethrough and contrasting with a background for daylight visibility, an elongated tube lamp immediately back of the plate to one side of the character stroke so as to be out of alignment therewith, and a reflector for light on the opposite side of the tube from said stroke and closely adjacent the tube to reflect light from the lamp to the stroke.

2,163,615

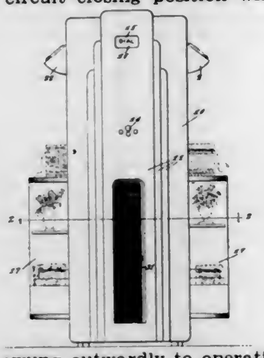
RADIO CABINET, SHELF, AND LIGHT

Donald V. Marsh, Lexington, Ill.

Application June 30, 1937, Serial No. 151,244

1 Claim. (Cl. 240—4)

The combination with a cabinet, of a pair of lamp reflectors hinged on horizontal pivots to swing into and out of the cabinet at the sides thereof, lamps carried by the reflectors and constituting floor lamps, a circuit for the lamps, switches having a stationary contact carried by the cabinet and a movable contact carried by the reflector and adapted to be automatically adjusted to circuit closing position when the reflector is swung outwardly to operative position, and corner shelves mounted to swing on vertical pivots into and out of the sides of the cabinet below the lamps and adapted to be illuminated by the lamps.



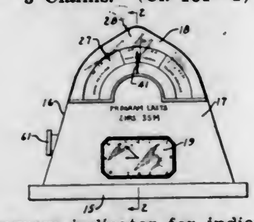
2,163,616

PROGRAM INDICATOR

Leonard McGihon, San Leandro, Calif.

Application February 15, 1936, Serial No. 64,101

3 Claims. (Cl. 161—1)



1. A program indicator for indicating at any time the stage of a constantly recurring program, comprising a member of fixed length for displaying indicia of a program, the indicia for each part of the program occupying a proportional part of said length in the ratio of the time interval of said part to the total time of the program, a plurality of indicating hands for cooperation with said member and the indicia thereon, said hands being equally spaced apart so that as one of said hands ends its traverse of said member another hand begins its traverse thereof, means for driving said hands to traverse said member at a uniform rate of speed, and an adjustable connection in said driving means for selecting the drive speed of said hands to adjust the time required by an indicating hand to traverse said member to equal the total time of the program.

2,163,617

PRODUCTION OF AROMATIC AMINES

Harold G. Mow, Buffalo, N. Y., assignor to National Aniline and Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application January 29, 1938, Serial No. 187,756

9 Claims. (Cl. 260—580)

1. In the production of an aromatic amine by the reducing action of a reducing metal on an aromatic compound of the group consisting of nitro, azo-, hydrazo-, azoxy-, and nitroso- compounds of the benzene and naphthalene series, the improvement which comprises subjecting an aqueous emulsion of the aromatic compound to the action of the reducing metal in a rotary mill containing freely movable agitators which subject said metal to a grinding action during the reduction.

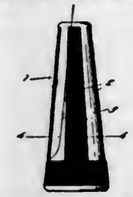
2,163,618

BOBBIN

Alfred D. Muller, Beverly, N. J.

Application October 20, 1937, Serial No. 170,094

1 Claim. (Cl. 242—120)



A bobbin having on its exterior surface a plurality of alternate rough and smooth surface panels, the smooth panels being highly polished and of substantially the same width as the rough panels, the rough panels being formed of a plurality of minute nodes located in rows and having their apices rounded and said apices terminating inwardly of the surfaces of said smooth surface panels.

2,163,619

CONTAINER

John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application May 25, 1935, Serial No. 23,485

4 Claims. (Cl. 220—75)



1. A metallic can body comprising a blank having its side edges engaged in a welded side seam extending longitudinally of the body, said welded side seam consisting of a series of spot welds located along the length of the seam and having the metal of said side edges interfused to form a hermetic joint, the centers of said spot welds being spaced apart with areas of adjacent spots overlapping, the outermost of said spot welds having their centers spaced inwardly from the end edges of said body and having the boundary of their fused areas terminating at said end edges and with such fused areas fully contained therein.

2,163,620

METHOD OF PREPARING PECTIN

Philip Bliss Myers, Scarsdale, N. Y., assignor to Sardik Incorporated, Jersey City, N. J., a corporation of Delaware

No Drawing. Application September 11, 1937, Serial No. 163,387

17 Claims. (Cl. 260—210)

1. The process of preparing pectin from raw

material which consists in forming a liquid extract of pectin, then precipitating the pectin by adding to the extract a copper salt taken from the group consisting of basic copper carbonate, copper chloride and copper acetate to form a copper-pectin precipitate, and drying said precipitate.

2,163,621

METHOD OF PREPARING PECTIN

Philip Bliss Myers, Scarsdale, N. Y., assignor to Sardik Incorporated, Jersey City, N. J., a corporation of Delaware

No Drawing. Application September 11, 1937, Serial No. 163,388

13 Claims. (Cl. 260—210)

1. The method of preparing pectin from raw material which consists in forming a liquid extract of pectin and precipitating the pectin from the extract by adding thereto a nickel salt, and adjusting the reaction to a pH of approximately 3.5 to 4.5.

2,163,622

COMPOUNDED LUBRICATING OIL

George L. Neely and Frank W. Kavanagh, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 7, 1936, Serial No. 62,814

6 Claims. (Cl. 87—9)

1. A lubricant comprising a mineral oil in which has been incorporated more than approximately 0.75% of an oil soluble metallic naphthenate and a small amount of a free organic acid selected from the group consisting of oleic acids and stearic acids, the proportion of said naphthenate being insufficient to cause substantial jell formation in the presence of the free acid.

2,163,623

GARMENT CLASP

Wilbur E. Olmstead, Bridgeport, Conn., assignor to William E. Hatheway, Bridgeport, Conn.

Application September 29, 1937, Serial No. 166,246

3 Claims. (Cl. 24—245)



1. In a garment clasp, a loop member adapted to be connected at its upper end to a supporting portion of a garment, and a flexible button member for cooperation with said loop member comprising a flexible tape having parallel sides, and a rubber button secured to the lower end of said tape consisting of a flat rubber base portion having its sides parallel and continuous with the sides of said tape member, a head having a flat front surface parallel to said base and having its side edges inwardly spaced from the side edges of said base, and a collet connecting said base to said head formed by a groove underlying the side and bottom marginal portions of said head, said groove being in a plane parallel to said base and said front surface of said head, said loop member comprising an upper loop portion having an opening wider than said tape and through which said tape extends from the front side of the upper end of said member to the rear side, inwardly projecting retaining portions adjacent said upper loop portion adapted to overlie said tape at points inwardly of its side edges, an intermediate button receiving loop portion having an opening adapted to freely receive said head and having sides disposed inwardly of the side edges of said tape portion and overlying the marginal portions thereof, and a restricted lower loop portion adapted to be engaged by the groove of said collet and comprising side and bottom portions underlying the marginal side and bottom portions of the button in the fastened position, said lower loop portion being rearwardly offset with respect to said intermediate portion and disposed in a plane parallel thereto, said offset substantially corresponding in depth to the thickness of said head whereby said flat surface of said head is in substantially the same plane as the front surface of said intermediate portion, and both are parallel to the plane of said rubber base portion.

2,163,624

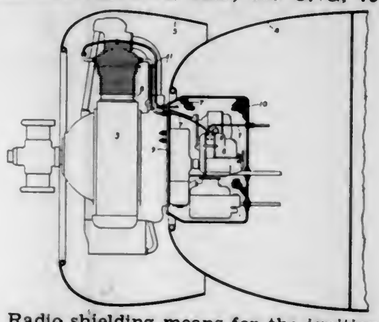
RADIO SHIELDING MEANS

Melville F. Peters, Beltsville, Md.

Application May 11, 1938, Serial No. 207,416

7 Claims. (Cl. 123—148)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Radio shielding means for the ignition system of an internal combustion engine, said system including a source of ignition current, comprising a plane ring disposed around the engine between the cylinders thereof and said source, said ring being mechanically and electrically connected to the engine, a foraminous electrically conducting member cooperating with said ring and the engine to enclose said source and grounded on said ring, conducting leads extending from said source through said ring and other leads from said source extending through said member, and a shielding element around each such lead, each said element being grounded at one end on said ring or on said member, respectively, and at the other end to the ground connection of the respective conductor.

2,163,625

ELECTRICAL WAVE FILTER

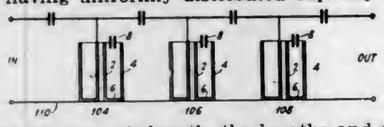
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application April 2, 1934, Serial No. 718,738. Divided and this application March 10, 1938, Serial No. 195,051

11 Claims. (Cl. 178—44)

1. An electrical wave filter comprising a wave

transmission line of recurrent structure, the recurrent series elements of said line being composed of condensers, and the recurrent shunt elements being composed of transmission line sections having uniformly distributed capacity and



inductance per unit length, the lengths and constants of the shunt elements, and the capacitances of the series elements being so proportioned with respect to one another that the electrical wave filter will have pass bands at certain desired frequencies.

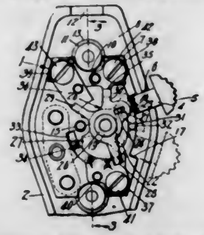
2,163,626

ELECTRIC SWITCH

Johann G. Peterson, West Hartford, Conn.

Application August 1, 1936, Serial No. 93,873

25 Claims. (Cl. 200—154)



1. In an electric switch, a base, stationary contact means thereon, pivoted actuating and movable contact members thereon disposed on opposite outer faces thereof, the actuating member being operable from one edge of said base and the movable contact pivot being between said edge and the pivot of the actuating member, and operative connections between said actuating member and movable contact member including actuating means on the face carrying said contact member and actuated upon movement of said actuating member for throwing the movable contact with a snap action.

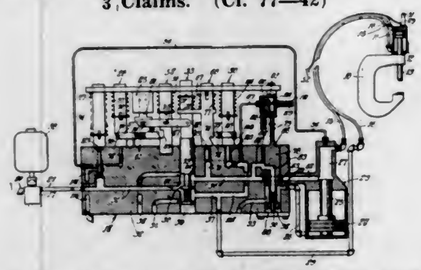
2,163,627

PRESS AND THE LIKE

Victor W. Peterson and Otto J. Maha, Chicago, Ill., assignors to Hannifin Manufacturing Co., Chicago, Ill., a corporation of Illinois

Original application July 20, 1936, Serial No. 91,630. Divided and this application October 4, 1938, Serial No. 233,284. In Canada December 1, 1937

3 Claims. (Cl. 77—42)



1. Apparatus for cold heading rivets at high speed comprising in combination a lightweight riveting yoke having an operating cylinder, a pump for delivering large volumes of liquid to said cylinder to advance the same quickly on the rivet, a flexible pressure line capable of withstanding pressures in excess of 2500 pounds per square inch connecting said pump and said cylinder to permit said yoke to be moved rapidly from rivet to rivet, said pump being constructed and arranged to deliver sufficient pressure to remove slack and to stretch said flexible line, and means operative when substantial resistance is encountered in heading the rivet for delivering intensified pressures in excess of 2500 pounds per square inch to said cylinder of such magnitude as to cold head the rivet, said means being constructed and arranged to operate without releasing the slack and stretch in said line.

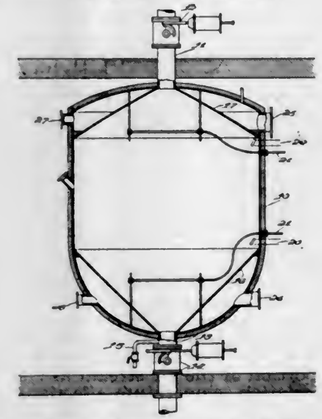
2,163,628

METHOD OF MOISTENING GRAIN

Orrin H. Pilkey, Chicago, Ill., assignor to The Guardite Corporation, a corporation of Illinois

Application July 22, 1937, Serial No. 155,143

1 Claim. (Cl. 83—27)



The method of moistening grain containing moisture in an amount less than desired in a large static mass comprising subjecting the grain in a single container to a substantial vacuum such that moisture contained therein is boiled and washes out substantially all residual non-condensible gas, introducing steam in a stream through the evacuated product to raise the temperature of the grain to a predetermined average temperature, whereby the moisture content of the grain is substantially increased, the steam being introduced to produce a substantially higher temperature in one portion of the grain than in another, and then equalizing the temperature of the grain in the chamber by evacuation by application of vacuum to produce boiling of moisture from hotter portions of the grain.

2,163,629

TABLET

Bernhard Rapp and Friedrich K. Russow, Darmstadt, Germany, assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application August 5, 1936, Serial No. 94,431. In Germany August 13, 1935

12 Claims. (Cl. 167—82)

1. A process for the production of tablets capable of rapid disintegration in water which comprises mixing a powdered tablet-base mate-

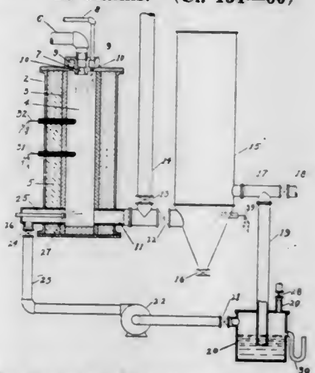
rial with the aqueous lather of a foam producing substantially inert substance, rapidly drying the mixture to free it from excess moisture, coarsely grinding the dried porous mass, and then pressing the porous ground material into tablet form.

2,163,630

PROCESS OF PRODUCING CARBON BLACK

Forrest C. Reed, Kansas City, Mo.

Application May 14, 1936, Serial No. 79,735
12 Claims. (Cl. 134—60)



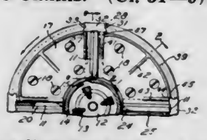
1. The process of producing carbon black by the incomplete combustion of a hydrocarbon-containing gas which comprises introducing a stream of air insufficient for complete combustion into a retort passage of refractory material which provides a substantially enveloping space around said air stream, simultaneously introducing into said enveloping space and adjacent the point of introduction of the air stream a hydrocarbon-containing gas thereby to effect diffusion of the hydrocarbon-containing gas into said air stream in an axial and inward direction with reference to the wall of said passage and to initiate partial combustion of the hydrocarbon substantially at the outer portion of the air stream and to maintain a dissociation temperature effective for producing carbon black, and thereupon separating the carbon black from the gases.

2,163,631

ABRADING APPARATUS

William A. Rosenberger, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland

Application December 9, 1936, Serial No. 115,047
5 Claims. (Cl. 51—9)



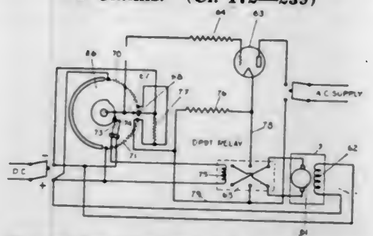
1. In an abrading apparatus, a rotor having a plurality of outwardly extending guideways provided therein, an abrasive propelling blade mounted for sliding movement in each of said guideways, and means for releasably locking said blades against outward movement in said guideways comprising a key element bridging the outer end of each guideway and adapted to be abutted by the outer end of each blade, said rotor being provided adjacent the outer end of each guideway with a pair of projections which interfit with a pair of correspondingly shaped recesses provided in the opposite ends of each of said keys.

2,163,632

APPARATUS FOR CONTROLLING ROTATION

Howard A. Satterlee, Needham, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine

Application November 2, 1936, Serial No. 108,853
8 Claims. (Cl. 172—239)



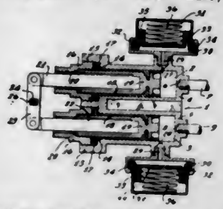
6. System for controlling the position of a body including a motor having an armature immersed in a continuous magnetic field and adapted to generate a back E. M. F. when in motion, a three-electrode gaseous electron tube having said armature in circuit with its anode, means for applying a potential to the grid of said tube of a magnitude corresponding to the desired degree of motion of said body, means for opposing the motor back E. M. F. to said grid potential and means operated by the motion of said body for reducing said grid potential as the desired position of said body is attained.

2,163,633

HYDRAULIC BRAKE SYSTEM

Claude Sauzedde, Detroit, Mich., assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich., a corporation of Michigan

Application July 8, 1935, Serial No. 30,232
8 Claims. (Cl. 188—152)



1. In hydrostatic braking systems, wherein each unit to be braked carries brake-applying elements movable to brake-applying position by fluid pressure and away from such position by spring pressure, and wherein actuator mechanism includes a piston and cylinder assembly for providing a piston chamber of definite dimensions and having its piston movements operative to vary the active dimensions of the chamber and to produce fluid pressure to apply the brakes by brake pedal operation, the combination with such structure, of means operative to control the volume of fluid between the piston and the brake-applying elements while maintaining open communication between the piston chamber of the actuating mechanism and the brake applying elements, said control means including a variable fluid storage chamber with the chamber fluid under spring pressure of less value than the spring pressure value operative to move the brakes away from applied position, said means also including port communication between such storage chamber and the piston chamber of the mechanism with the portage forming the sole communication between the chambers, said port communication

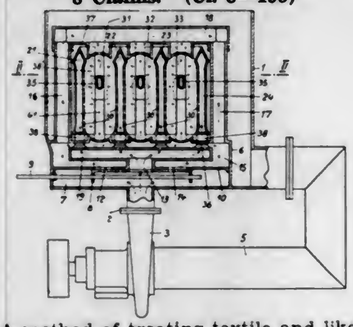
being controlled as to activity and inactivity solely by the piston functioning as a portage cut-off and with communication activity limited to periods when the piston is substantially in its inactive position to thereby limit changes in the volumetric value of the active fluid content of an individual braking activity to the period between the close of one activity and the beginning of the succeeding activity to cause successive braking activities to be provided under equal volumetric value conditions, change-compensating activities being provided by the differential in pressure between the spring pressures respectively active in returning the brakes and in the means providing chamber fluid pressure and with the differential activity limited to the period between successive braking activities.

2,163,634

PROCESS AND APPARATUS FOR TREATING TEXTILE MATERIALS

Jakob Schlumpf, Hollain, Hainaut, Belgium, assignor to Atlantic Rayon Corporation, a corporation of Rhode Island

Application June 6, 1936, Serial No. 83,833
In Switzerland June 8, 1935
8 Claims. (Cl. 8—158)



1. A method of treating textile and like materials with fluids which comprises immersing the material in the treating fluid so that it is free to float therein and subjecting it to simultaneous impingment by opposite jets of the fluid directed toward each other to separate and open the individual strands whereby to cause penetration of the fluid thereinto.

5. In an apparatus for treating textile and like materials with fluids, the combination of a tank divided into a plurality of closed compartments having nozzles in their walls, distributing pipes extending through the compartments and provided with nozzles in their sides, and means to force the treating fluid through the nozzles in the walls of the compartments and the distributing pipes to cause jets of the fluid to impinge upon the material contained in the compartments.

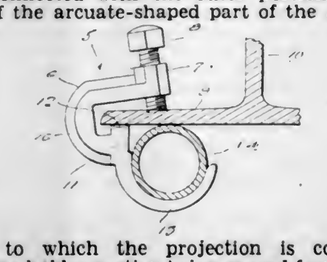
2,163,635

PIPE HANGER

Stephen P. Shea, East St. Louis, Ill., assignor of one-half to A. H. McKane, East St. Louis, Ill.

Application March 8, 1938, Serial No. 194,667
1 Claim. (Cl. 248—72)

A pipe hanger of the class described comprising a substantially J-shaped part providing a shank and an arcuate-shaped portion, the free end of the shank having a laterally extending threaded hole therein, a set screw passing through the hole, an inwardly extending projection at the end of the arcuate portion, said projection being out of alignment with the set screw and an arcuate pipe holder portion having one end connected with the outer portion of that end of the arcuate-shaped part of the J-shaped



body to which the projection is connected, the pipe holder portion being spaced from the inner end of the screw.

2,163,636

PROCESS FOR PREPARING LINEAR CONDENSATION POLYAMIDES

Edgar William Spanagel, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 20, 1937, Serial No. 160,191
20 Claims. (Cl. 260—561)

1. A process for making polyamides which comprises heating polyamide-forming reactants at polymerizing temperatures and under superatmospheric pressure in the presence of added water in amount sufficient to render the reaction mass fluid during the polymerization reaction.

2,163,637

PHENOLIC RESIN

Charles A. Thomas, Dayton, Ohio, assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application July 31, 1935, Serial No. 34,061
8 Claims. (Cl. 260—30)

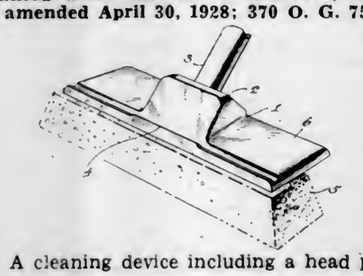
1. A coating composition comprising the reaction product of a preformed oil-soluble 100% phenolic resinous condensation product of a substituted phenol and an aldehyde, which condensation product is insoluble in mineral spirits, and a preformed hydrocarbon resin obtained by polymerization of a cracked petroleum distillate, said hydrocarbon resin being soluble in mineral spirits and benzene and insoluble in alcohol and acetone, the relative amount of the two resins in the reaction product being such as to result in a reaction product which is soluble in mineral spirits.

2,163,638

CLEANING DEVICE

Sidney P. Vaughn, San Diego, Calif.

Application July 27, 1936, Serial No. 92,899
13 Claims. (Cl. 15—244)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cleaning device including a head portion,

and a substantially rectangular block of cellular compressible material secured to the under-side of the head with its front edge spaced slightly forward of the front edge of the head and its rear edge spaced a substantial distance forward of the rear edge of the head.

2,163,639

COMPOSITION OF MATTER PRODUCED FROM POLYHYDRIC PHENOLS AND ALKYL AMINES

Harold Von Bramer and Albert C. Ruggles, Kingsport, Tenn., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

No Drawing. Application August 17, 1936, Serial No. 96,466
19 Claims. (Cl. 260—128)

1. An aminophenol selected from the group consisting of N-alkyl-o-aminophenols and N-alkyl-p-aminophenols in which the alkyl group contains at least four carbon atoms, together with the attendant reaction products formed when preparing the N-alkylaminophenol from a primary amine selected from the group consisting of primary alkyl and secondary alkyl primary amines, having the general formula $C_nH_{2n+1}NH_2$, wherein n represents a positive integer not smaller than four, and a polyhydric phenol selected from the group consisting of polyhydric phenols of the benzene series containing at least two phenolic hydroxyl groups in ortho position to one another and polyhydric phenols of the benzene series containing at least two phenolic hydroxyl groups in para position to one another.

2,163,640

INHIBITOR AND MOTOR FUEL STABILIZED THEREWITH

Harold Von Bramer and Albert C. Ruggles, Kingsport, Tenn., assignors, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

No Drawing. Application August 17, 1936, Serial No. 96,467
10 Claims. (Cl. 44—9)

1. A liquid motor fuel comprising light hydrocarbons and normally tending to deteriorate containing, in an amount sufficient to substantially retard such deterioration, an aminophenol capable of inhibiting the formation of gum or resinous products in said motor fuel and having at least one hydrogen atom of the amino group replaced by an alkyl group containing at least four carbon atoms, together with a substantial proportion, based upon the amount of the aminophenol, of a phenylene diamine having at least one hydrogen atom of each amino group replaced by an alkyl group containing at least four carbon atoms.

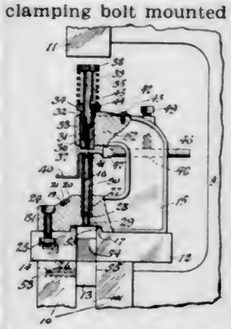
2,163,641

PUNCHING PRESS

George F. Wales, Kenmore, N. Y.

Application April 25, 1938, Serial No. 203,997
7 Claims. (Cl. 164—90)

1. A punching press comprising a rail, a holder slidable lengthwise on said rail, said holder and rail being provided with cooperating surfaces which permit said holder to slide lengthwise of said rail but prevent the same from moving transversely thereon, cooperating die and punch members mounted on the lower and upper parts of said holder, and clamping means for fastening said holder against movement on said rail including a clamping bolt mounted on the front



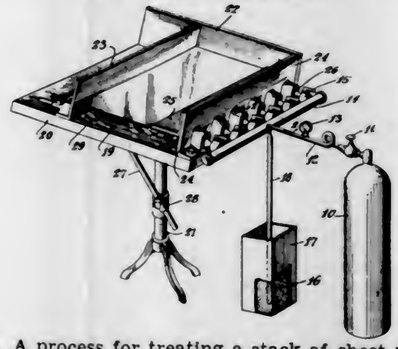
part of said holder and having a nut seated in a T-slot in said rail.

2,163,642

PROCESS AND APPARATUS FOR TREATING SHEET MATERIAL

André Wallach, Atlanta, Ga., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

Application May 21, 1936, Serial No. 81,054
14 Claims. (Cl. 91—68)



1. A process for treating a stack of sheet materials to render the individual sheets separable comprising depositing from a gaseous dispersion and between contiguous surfaces of the sheets while in said stack a small amount of comminuted solid material.

2,163,643

PROCESS FOR PRODUCING PROTEOLYTIC ENZYME FROM FICUS LATEX

Alphonse Walti, Westfield, N. J., assignor to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application August 6, 1936, Serial No. 94,585
6 Claims. (Cl. 195—66)

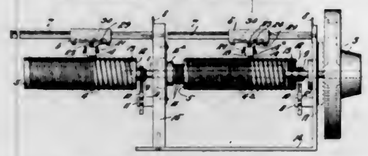
6. The process for producing a proteolytic enzyme from ficus latex in crystalline form which comprises pre-treating the crude latex by filtration to remove therefrom the solid and semi-solid material, precipitating the protein fraction of the treated latex with magnesium sulfate, dissolving the precipitate in a small quantity of 0.05 N. hydrochloric acid, neutralizing the solution with 0.5 N. sodium hydroxide, allowing the solution to stand at a temperature not in excess of room temperature, filtering off the formed crystals, and washing them with a slightly acidified solution of sodium chloride.

2,163,644

VARIABLE INDUCTANCE

Paul Ware, New York, N. Y.

Application July 17, 1935, Serial No. 31,823
5 Claims. (Cl. 171—242)



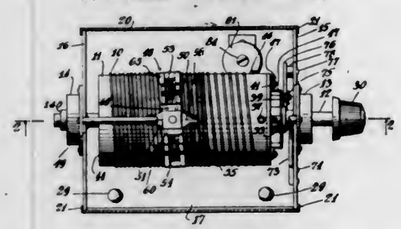
1. A variable inductance device comprising a pair of spaced upright supports, a rotatable shaft extending therebetween and pivoted therein, a hollow coil form surrounding said shaft with its axis concentric with said shaft, said form being rigidly secured to said shaft at one of the form ends, the other end of said form being open and free of support, a bare conductor helically wound on said form and a contactor member guided along the side of said form parallel to said side and arranged to make continuous sliding contact with said helical conductor when the shaft, form and helix are rotated, a second coil form surrounding said shaft and rigidly supported in cantilever fashion on the one of said upright supports at the unsupported open end of said first form and projecting inside said first form, and a coil winding on said second form.

2,163,645

INDUCTIVE TUNER

Paul Ware, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application August 8, 1936, Serial No. 94,927
17 Claims. (Cl. 171—119)



1. A slide-wire variable inductance device wherein a bare helical coil is mounted for rotation about its longitudinal axis and a contact bar is mounted parallel to a side of the coil and spaced therefrom, characterized by the fact that there is combined with said coil and bar a moving contactor assembly, said contactor assembly comprising a frame, non-resilient means spacing said frame from said coil, a contact member on said frame and in contact with said coil and another contact member on said frame and engaging said bar, the contact member engaging said bar comprising spring means urging said frame away from said contact bar and toward said coil.

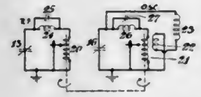
2,163,646

TUNING CIRCUIT

Paul Ware, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application August 8, 1936, Serial No. 94,928
5 Claims. (Cl. 250—40)

3. A resonant radio circuit for tuning within a predetermined frequency range comprising a variable inductance capable of reduction to substantially zero inductive value during tuning and a fixed inductance in series therewith, and a fixed capacitance bridged across said series combination of inductances, the radio frequency resistance of said fixed inductance at a given



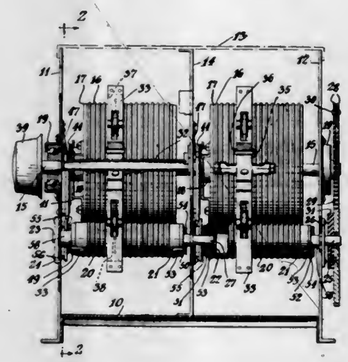
frequency within said frequency range being less than the radio frequency resistance of said variable inductance at said frequency when the variable inductance is adjusted to an inductive magnitude equal to that of said fixed inductance, whereby to improve the impedance of the said resonant circuit in the high frequency region within the said predetermined tuning range.

2,163,647

HIGH FREQUENCY TUNER

Paul Ware, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application August 11, 1936, Serial No. 95,332
11 Claims. (Cl. 171—119)



1. A variable inductance device comprising a pair of inductance coils each arranged for rotation about its axis, one of said coils having a greater number of turns per unit length than the other, a contact assembly, means to move said contact assembly along both said coils in contact therewith and means coupling said coils together mechanically for rotation in unison at angular speeds proportional to the number of turns per unit length thereon.

2,163,648

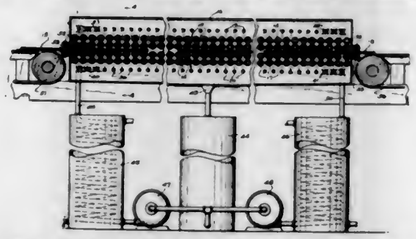
MANUFACTURE OF LAMINATED SAFETY GLASS

George B. Watkins and David H. Goodwillie, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application May 9, 1936, Serial No. 78,740
7 Claims. (Cl. 49—81)

1. Apparatus for use in the manufacture of laminated safety glass including a plurality of pairs of pressing rolls between which the assembled laminations to be bonded are adapted to be

passed, a backing-up roll engaging each pressure roll to prevent bending thereof, and means for



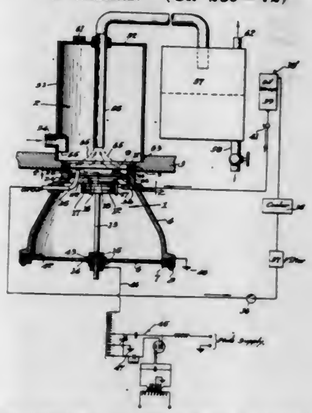
heating the laminations as they pass between the rolls.

2,163,649

METHOD AND APPARATUS FOR UTILIZING HIGH FREQUENCY COMPRESSIONAL WAVES

Chester E. Weaver, Los Angeles, Calif.

Application November 25, 1935, Serial No. 51,552
Renewed September 12, 1938
9 Claims. (Cl. 259—72)



6. The method of subjecting a liquid material to treatment by high frequency compressional waves, which comprises: maintaining a high frequency electric field across a piezo-electric generator to produce high frequency compressional waves; transmitting such compressional waves through a fluid medium to a diaphragm spaced above said generator to cause vibration of said diaphragm at high frequency; maintaining a body of liquid material above said diaphragm and producing high frequency compressional waves in said liquid material by the vibration of said diaphragm and thereby causing said liquid material to assume a general conical shape above said diaphragm due to the action of said compressional waves; and continually supplying liquid to and removing liquid from said body in such manner as to cause all of said liquid to pass through the upper restricted portion of said conical body.

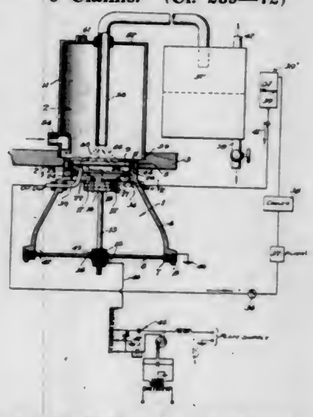
9. An apparatus for use in the treatment of fluids by high frequency compressional waves comprising a receptacle provided at the lower end with a diaphragm and also provided with inlet passage means and outlet passage means communicating with the interior of said receptacle at positions spaced from one another for maintaining a body of fluid in a treatment region within said receptacle above said diaphragm, one of said passages opening into said receptacle at a position above, and spaced from, the central portion of said diaphragm; means for continually introducing fluid through said inlet passage means and continually withdrawing fluid through said outlet passage means; a housing providing an enclosed chamber below said diaphragm; a piezo-electric generator within said chamber; means for supplying high frequency electric current to said generator; and a body of dielectric liquid within said chamber and around said generator and in position to transmit high frequency compressional waves from said generator to said diaphragm.

2,163,650

MEANS FOR PRODUCING HIGH FREQUENCY COMPRESSIONAL WAVES

Chester E. Weaver, Los Angeles, Calif.

Original application November 25, 1935, Serial No. 51,552. Divided and this application March 16, 1938, Serial No. 196,223
9 Claims. (Cl. 259—72)



1. In an apparatus for producing high frequency compressional waves, the combination which comprises: a plurality of piezo-electric crystals of different resonant frequencies arranged in electrical contact with one another; means for maintaining a high frequency electric field through said crystals in series at substantially the resonant frequency of one of said crystals; and means for maintaining a fluid medium in a position subject to movement of said one crystal for producing high frequency compressional waves in said fluid medium due to vibration of said crystal.

2,163,651

MANUFACTURE OF NORMAL, SECONDARY PENTADECYL SULPHATES

James Herbert Werntz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 13, 1937, Serial No. 153,365
12 Claims. (Cl. 260—459)

1. A normal, secondary, pentadecyl sulphate.

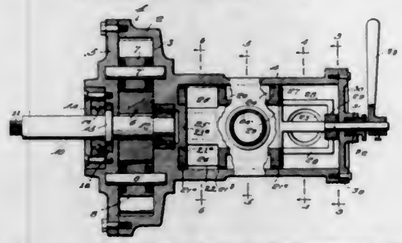
5. A process of preparing an alkali metal salt of a normal, secondary, pentadecyl sulphate which comprises reacting a normal, secondary pentadecanol with chlorosulphonic acid in an inert, anhydrous, organic solvent and neutralizing the sulphated pentadecanol with an aqueous solution of an alkali metal hydroxide.

2,163,652

HYDRAULIC MOTOR

George W. Wilkin, Spokane, Wash.

Application June 18, 1937, Serial No. 148,991
3 Claims. (Cl. 121—70)



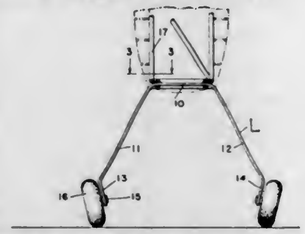
1. A gear type hydraulic motor comprising a casing normally open at one side and closed at its opposite side, said casing having a central gear chamber and side gear chambers in communication with said central chamber, a plate closing the open side of the casing, said plate and the wall of the closed side of the casing being provided with bearing recesses in line with the respective chambers, a valve casing carried by and disposed in axial alinement with said wall, the wall having two sets of intake and discharge ports connecting the inner end of the valve chamber with said gear chambers and said valve chamber having at its outer end an intake port and at a point intermediate of its length an exhaust port, intermeshing central and side gears in the gear chamber, shafts carrying anti-friction bearing members in the recesses in line with the central gear chamber, shafts carrying said gears and journaled in the bearing recesses in the plate and wall of the closed side of the casing, the recess formed in the plate in line with the central gear chamber being normally open at its outer side, a detachable closure for said open side of said recess confining the anti-friction bearing member therein in place, and a rotary valve in said valve chamber having a longitudinally extending intake passage communicating at its outer end with said intake port in the valve casing and provided at its inner end with branches for communication with the inlet ports in the casing and having an exhaust communicating with the exhaust port in the valve casing and provided with branches for communication with the discharge ports in the casing.

2,163,653

AIRPLANE LANDING GEAR

Sylvester J. Wittman, Oshkosh, Wis.

Application February 26, 1937, Serial No. 127,935
1 Claim. (Cl. 244—104)



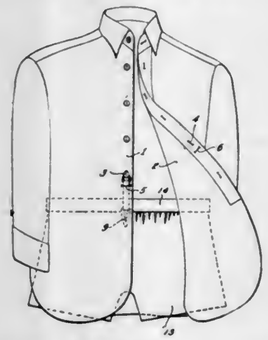
An airplane landing gear comprising, diverging landing gear struts formed from resilient material having inwardly directed converging arms formed on the lower ends thereof, said arms being normally disposed at an angle to the vertical, and landing wheels rotatably carried by said arms and adapted to move transversely of the gear upon outward flexing movement of the struts.

2,163,654

SHIRT HOLD-DOWN DEVICE

Russell A. Ziegler, Douglaston, Long Island, and Frank Ferguson, Troy, N. Y., assignors to Cluett, Peabody & Co. Inc., Troy, N. Y., a corporation of New York

Application August 16, 1938, Serial No. 225,094
1 Claim. (Cl. 2—115)



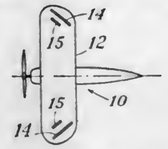
In combination with a shirt having inner and outer overlapping front portions provided with interengaging buttons and button holes respectively, the inner portion being provided with an opening between the waist line and a lower one of said buttons, an elongate anchor extending through said opening, the anchor having, at its upper end, a fastener detachably engaging over said lower button and, at its lower end, a fastener having a downwardly tapering opening in which a portion of a nether garment may be wedged, said anchor being elastic yieldingly to pull downwardly on said lower button and its cooperating button hole thereby to restrain said outer portion from bunching upwardly in various positions of the wearer without any part of said anchor showing outside the shirt when said portions are buttoned together.

2,163,655

SLOTTED AIRPLANE WING TIP

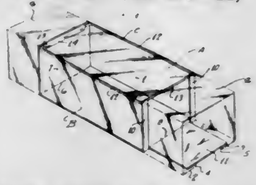
Charles H. Zimmerman, West Hartford, Conn.

Application April 2, 1938, Serial No. 199,637
1 Claim. (Cl. 244—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



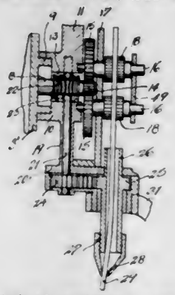
Means for increasing the stability and lift of aircraft wing tips comprising wing slot means extending upwardly and rearwardly in a smooth curve through the wing adjacent the tip, said slot means comprising a long slot adjacent the wing tip edge and parallel to a tangent thereto, and a short slot forwardly of and parallel to said longer slot, said slots being at an acute angle to the direction of travel of the aircraft.

2,163,656
COLLAPSIBLE CONTAINER
Martha Adkisson, St. Louis, Mo.
Application October 30, 1937, Serial No. 171,943
9 Claims. (Cl. 206—44)



5. A container comprising a substantially rigid cardboard bottom wall, a first cardboard end member hingedly connected to the bottom wall at its one transverse margin, a second cardboard end member hingedly connected to the bottom wall at its opposite transverse margin, a top frame hingedly connected at its opposite ends respectively to the free margins of said end members, and a flexible envelope secured at opposite margins to the bottom wall adjacent opposed longitudinal margins thereof for taut disposition around the bottom wall and its associated end walls and top frame, one of said end walls being provided with a hinged flap for permitting access to the interior of the container when the container is in upright position.

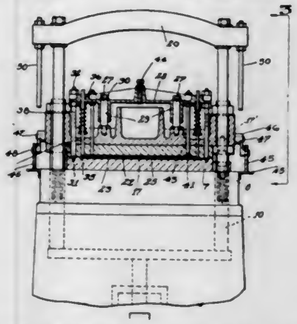
2,163,657
WELDING MACHINE
Ernest E. Beckman, Lind, Wash., assignor of one-half to Walter D. Krehbiel, Lind, Wash.
Application August 7, 1937, Serial No. 157,914
5 Claims. (Cl. 219—8)



1. In an electrical welding apparatus, a body including a motor casing and a transmission casing in advance of the motor casing, a head at the front of the transmission casing, means carried by said head for carrying a welding rod, a tubular guide for the welding rod rotatably mounted, means for rotating said guide, means for advancing the welding rod downwardly through the guide tube, and a tip for the lower end of the guide tube having a rod receiving passage eccentric to the axis of the tube to cause the lower end of the welding rod to be moved in a circular path about its axis during rotation of the guide as it is advanced towards the work.

2,163,658
CASTING MACHINE FOR STEREOTYPE PLATES
Edward S. Bird, Worcester, Mass., assignor to Reed-Prentice Corporation, Worcester, Mass., a corporation of Massachusetts
Application October 8, 1937, Serial No. 168,050
2 Claims. (Cl. 22—2)

1. In a machine for casting relatively thin plates, a pair of dies between which the plate is cast, one of the dies being movable for separation of the dies, a guard extending around the dies and mounted on the movable die, said guard being normally located in a position to shield



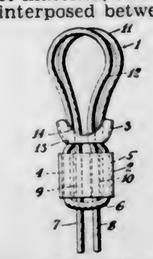
the dividing line between the dies, and means responsive to the movement of the movable die in opening the dies for shifting the guard relative to the movable die into inoperative position for access to the dies.

2,163,659
VITAMIN
Albert Gerhardus Boer, Eindhoven, Johannes van Niekerk, Leiden, and Engbert Harmen Reerink and Aart van Wijk, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
No Drawing. Application July 6, 1935, Serial No. 30,156. In Germany June 19, 1935
12 Claims. (Cl. 260—397)

1. A process for producing a pure provitamin D having a melting point of about 149.5° C. to about 150° C. and a specific rotation in benzene of $(\alpha)_D = -118°$ and whose acetate has a melting point of about 160° C. to about 161° C. and a specific rotation in benzene of $(\alpha)_D = -78°$ which comprises extracting the fatty material from sea mussels, saponifying said fatty material with a saponifying agent, extracting therefrom the unsaponifiable portion with an organic solvent, crystallizing such unsaponifiable portion, converting the crystallized product into the acetate, dissolving said acetate in a solvent, adsorbing the dissolved acetate on alumina, removing therefrom the unactivatable sterols with a mixture of benzene and light petroleum, obtaining the activatable sterol acetate by lixiviating the adsorbed material with a mixture of benzene and methyl alcohol, crystallizing said activatable sterol acetate and saponifying the resulting material in order to obtain the pure provitamin D.

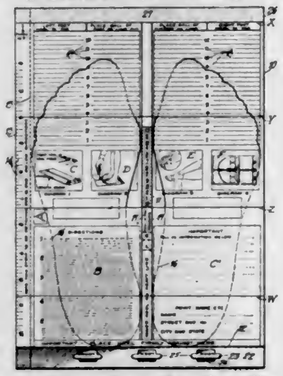
2,163,660
BAG SEAL
Winfred M. Brooks, West Orange, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application May 5, 1938, Serial No 206,217
7 Claims. (Cl. 292—308)

1. A sealing means for the mouth of a bag of flexible material including: a cord of flexible material to be tightened around the bag to constrict the same; a body of relatively compressible material in which the cord is anchored and through which said cord is threaded, the body being compressed around said cord; and a cup-shaped member of relatively rigid and incompressible sheet material, through which the cord is threaded, interposed between the bag and the



body of compressible material with its concave portion adjacent the bag.

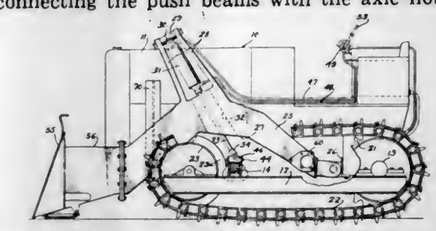
2,163,661
RECORD CHART FOR SHOE MEASUREMENTS
Charles B. Brown, Jackson Heights, N. Y.
Application May 1, 1937, Serial No. 140,097
2 Claims. (Cl. 33—3)



1. A chart of the character described used in measuring the length of heel-to-ball, heel-to-toe and the width of a foot; said chart comprising a flattened-out body portion of relatively strong paper with one edge thereof having means whereby the heel of the foot is adapted to snugly rest thereagainst, said means comprising a plurality of walls with one of said walls being angularly disposed with respect to the other wall and the said other wall being upright and at right angles to the flattened body portion, said upright wall having a plurality of T-shaped tab members extending outwardly therefrom towards the angularly disposed wall, and said angularly disposed wall having a plurality of substantially square registering openings adapted to receive the said T-shaped tabs with the wider ends of the tabs engaging the outer side of said wall for locking said walls into serviceable position and thereby retain the one said wall in upright position when the heel of the foot rests thereagainst.

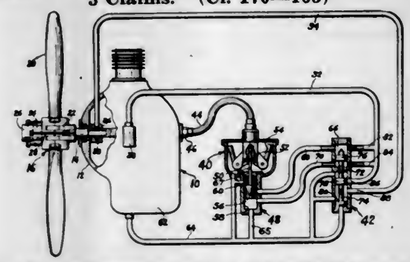
2,163,662
IMPLEMENT MOUNTING FOR TRACTORS
Harry C. Buffington, Springfield, Ill., assignor to Baker Manufacturing Co., Springfield, Ill., a corporation of Illinois
Application March 19, 1937, Serial No. 131,802
14 Claims. (Cl. 37—144)

1. In combination, a tractor having a motor frame, track frames longitudinally thereof in spaced relation therefrom and a rear axle housing extending between the motor frame and the track frames, push beams disposed between the motor frame and track frames, an implement mounted on said push beams, means pivotally connecting the push beams with the axle hous-



ing, a support mounted on the track frames and extending transversely across the tractor, and means acting against said support for raising and lowering the push beams relative to the tractor.

2,163,663
CONTROLLABLE-PITCH PROPELLER
Frank W. Caldwell, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 8, 1935, Serial No. 25,615
3 Claims. (Cl. 170—163)

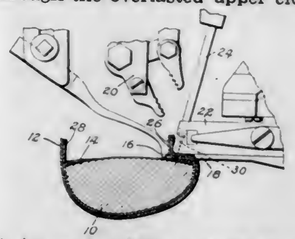


1. In combination with a controllable propeller and driving means therefor, means for automatically adjusting the blade angle of said propeller, a pressure line, a drain, and means for connecting said propeller adjusting means with said pressure line or said drain comprising, a servo valve having two chambers, a piston in each chamber said pistons being operatively connected together, means hydraulically connecting said propeller adjusting means, said pressure line and said drain to one of said chambers, means connecting said pressure line at two spaced points to the other of said chambers, a pilot valve, means connecting said pilot valve with said drain, means comprising a pair of spaced conduits connecting said pilot valve with said other chamber, and a speed responsive mechanism for operating said pilot valve.

2,163,664
METHOD OF LASTING SHOES
Salvatore Cangemi, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 9, 1936, Serial No. 58,328
5 Claims. (Cl. 12—145)

1. That improvement in methods of making shoes which comprises applying cement to the opposed surfaces of the lasting allowance of a shoe upper assembled upon a last, progressively working successive portions of the shoe upper over the last bottom, turning each successive portion of the excess of lasting allowance into an upstanding position with respect to the last bottom by squeezing it into contact with a face perpen-

dicular to the shoe bottom, said face being carried by an abutment, utilizing the same face of the abutment repeatedly in lasting successive portions of the upper, and inserting a temporary fastening through the overlasted upper close to the



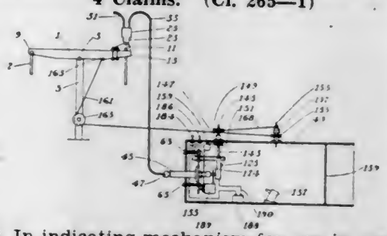
abutment in each of its successive positions, whereby the excess of lasting allowance is presented in a position substantially perpendicular to the insole to facilitate its removal by a trimming operation.

2,163,665

WELL DRILLING INDICATOR

Richard H. Carr, Worth M. Saxon, Glen G. Hebard, and Younger Neal, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application July 15, 1936, Serial No. 90,784
4 Claims. (Cl. 265—1)



2. In indicating mechanism for use in connection with apparatus for drilling wells in which a string of drilling tools is raised and lowered by a reciprocating means, means actuated by fluid pressure to produce oscillation of a gimbal-mounted reflecting surface about one axis, means to produce oscillation of said reflecting surface about its other axis including a shaft, a flexible connection from said shaft to said other axis, and means, operable to oscillate said shaft, connecting said shaft to said reciprocating means.

2,163,666

FISHING JIG

Warren G. Carter and Eugene P. Chandler, Ocean Park, Calif.

Application October 19, 1936, Serial No. 106,303
8 Claims. (Cl. 43—42)



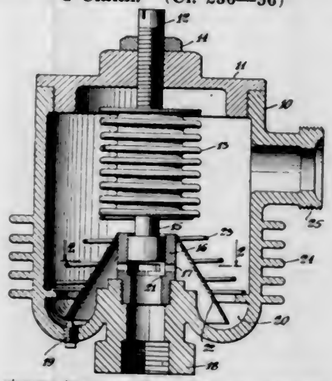
1. A fishing jig including, an elongate body of transparent material having a longitudinal opening extending therethrough, light reflecting material on the wall of the opening, and a multiplicity of light reflecting facet surfaces on the exterior of the body.

2,163,667

THERMAL EXPANSION STEAM TRAP

Gilbert R. Crowther and Joseph P. Goodman, New York, N. Y., assignors of one-third to George H. Pings, New York, N. Y.

Application April 7, 1937, Serial No. 135,469
1 Claim. (Cl. 236—56)



In a steam trap as described, a housing having at its top a shouldered and threaded bonnet, an adjustable expansion medium in said housing, an adjustment screw extending from the outside into the trap body through said bonnet and connected to the upper end of said expansion medium and adapted to be locked in any of its adjusted positions, a multiported cylinder in said trap having its lower, offset end threaded into the trap body at its connection with a boiler conduit, an inner shoulder in said cylinder, the lower part of the trap formed into a sediment chamber and having a plug closed draining opening for cleaning said sediment chamber, a piston rigidly connected to the underside of said expansion medium, and vertically reciprocating in said cylinder and cooperating with the ports of said cylinder to form a primary seal, said cylinder limited in its downward movement by engagement with said cylinder shoulder to form a secondary steam seal, a skirted deflector or protector member depending from the upper portion of said cylinder and surrounding the same to extend with its skirt into said sediment chamber, an expansion spring surrounding said deflector and resting with its lower outer portion on a shoulder in the trap body, said spring tapering inwardly and making contact with the base of the expansion medium to constitute a tensioning means against the expansion of said expansion medium to counterbalance the vacuum influence on the piston area, a radiator connection for said trap, and heat radiating means on the lower part of the trap housing.

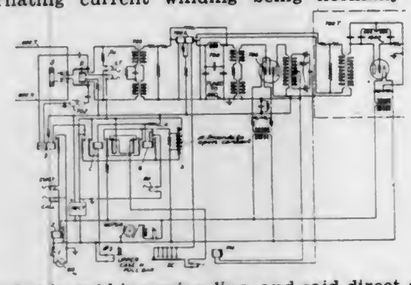
2,163,668

TELETYPEWRITER STATION

Thomas L. Corwin, Newark, N. J., and John L. Hysko, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 1, 1935, Serial No. 8,862
8 Claims. (Cl. 179—4)

1. A teletypewriter station including various instrumentalities having a non-energized non-receiving condition and an energized receiving condition, and including a relay having contact means for holding said station in one of said conditions, said relay being provided with separate direct current and alternating current windings whereby it may be energized with fluctuating current or direct current with the same effect upon its contact means, an incoming line, said alternating current winding being normally included in said incoming line, and said direct current winding being included in a path in series with a direct current source when said relay is energized.

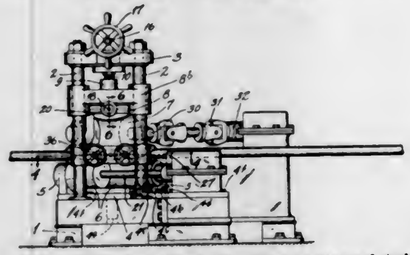


2,163,669

MACHINE FOR STRAIGHTENING AND POLISHING RODS AND TUBES

Carl Didden, St. Louis, Mo.

Application March 31, 1938, Serial No. 199,194
8 Claims. (Cl. 153—60)



1. A machine for straightening rods and tubes, said machine comprising two tapered rolls arranged with their small ends overlapping and with their axes substantially parallel and a third roll with its axis in a plane substantially parallel with but spaced from the plane of the axes of said first mentioned rolls and so positioned that a plane passing through it perpendicularly to the plane of the parallel axes intersects said parallel axes at an oblique angle, means operatively connected to each of said rolls to drive it positively, and means for guiding the work piece axially between said third roll and the other two rolls.

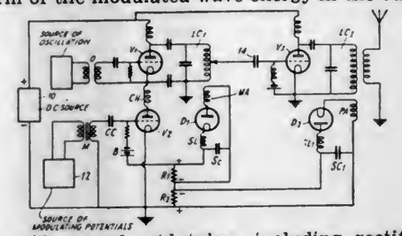
2,163,670

CARRIER WAVE TRANSMITTER

William Theodore Ditcham, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware

Application February 3, 1936, Serial No. 62,020
In Great Britain February 25, 1935
10 Claims. (Cl. 179—171)

1. In a signalling system, a plurality of electron discharge tubes each of which has input and output electrodes, alternating current circuits for impressing wave energy of carrier wave frequency on the input electrodes of one of said tubes and from the output electrodes of said one of said tubes to the input electrodes of another of said tubes, a modulating impedance variable at signal frequency connected with an electrode in said one of said tubes to modulate said wave energy, and supplemental means for additionally modulating said wave energy when the modulated wave energy in the output of said other of said tubes is not a substantial repetition in wave form of the modulated wave energy in the output



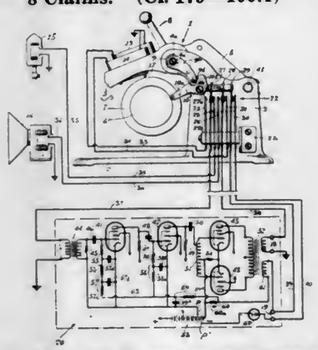
of said one of said tubes, including rectifying means differentially coupling an electrode of each of said tubes to said modulating impedance to additionally control the impedance thereof.

2,163,671

SOUND RECORDING AND REPRODUCING SYSTEM

Orville M. Dunning, Glen Ridge, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application February 20, 1937, Serial No. 126,803
8 Claims. (Cl. 179—100.4)



1. In a phonograph system selectivey adapted for the recordation and reproduction of sound: the combination of a record support; record-cooperating translating means; selective control means for moving said translating means selectively into recording and reproducing relationships to a record on said support; means for effecting a compression of the volume range of said sound; and means, controlled by said selective control means, for controlling said compression-effecting means.

2,163,672

SECTIONAL DRIVE

Walter Ferris, Milwaukee, Wis.

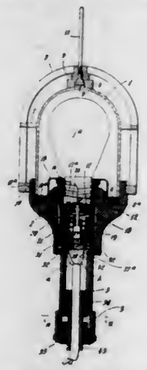
Application August 24, 1936, Serial No. 97,609
15 Claims. (Cl. 74—389)



1. The combination, with two machine units which require to be driven at proportional speeds, of a drive, means for driving the first of said units from said drive at a speed proportional to the speed thereof, a three legged differential hav-

ing a first or output leg connected to the second of said units to drive the same and a second or input leg driven from said drive, a variable speed transmission having an input shaft driven from said drive at a speed proportional to the speed thereof and an output shaft connected to the third or other input leg of said differential to drive the same and thereby enable said first leg to drive said second unit, means for initially adjusting said transmission to vary the speed of its output shaft relative to the speed of its input shaft and thereby vary the speed of said second unit relative to the speed of said first unit, and means responsive to a variation in the ratio between the input and output speeds of said transmission for automatically adjusting said transmission to correct said variation.

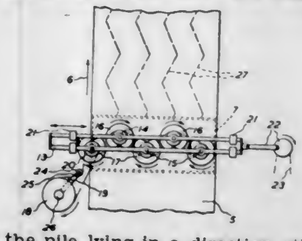
2,163,673
LIGHTING DEVICE
Lewis F. Garlock, New York, N. Y., assignor to Stewart R. Browne Mfg. Co., Inc., New York, N. Y., a corporation of New York
Application March 12, 1937, Serial No. 130,489
4 Claims. (Cl. 240—54)



1. A portable electric safety lamp having a plurality of separate sealed compartments, one of said compartments being the space enclosed by a globe supported at the top and bottom thereof, a second compartment being a space within the handle provided with terminals for lead-in wires and the third being a flexible bushing of the bellows type intermediate of the other compartments and switching members for making and breaking the electric circuit through a lamp contained within such globe, enclosed within said bushing.

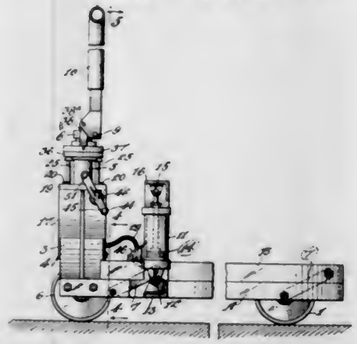
2,163,674
TREATMENT OF PILE FABRICS
Alexander Henderson Gentle, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application January 29, 1938, Serial No. 187,755
In Great Britain February 10, 1937
5 Claims. (Cl. 26—2)

1. Process for the production of improved pile fabric, comprising subjecting to the action of a setting medium the pile of a pile fabric, manipulating the filaments or fibers of the pile while under the action of said setting medium so as to cause them to point in different directions, allowing said pile to set in said different directions, and subsequently again subjecting said pile to the action of a setting medium and, while the pile is under the influence of said setting medium, subjecting the fabric to a padding operation so as to impart a curl to the filaments or



fibers of the pile lying in a direction other than that of the motion of the padding operation.

2,163,675
HYDRAULIC LIFT TRUCK
Paul D. Germond, Bayonne, N. J.
Application September 26, 1936, Serial No. 102,746
18 Claims. (Cl. 254—10)



1. A hydraulic truck comprising a wheeled main frame, an elevating platform movably mounted thereon, hydraulic mechanism for moving said platform on the main frame including a cylinder and piston device connected to the main frame and the platform, a reservoir, a pump mechanism supplying fluid to said cylinder and piston device, a passage and a valve therein for controlling flow of fluid from the reservoir to the pump and vice versa, a valved passage communicating with the first passage to supply fluid from the pump to said cylinder and piston device, a passage having a valve therein communicating with said reservoir and said cylinder and piston device, and a common means for automatically operating the first valve at a predetermined time during the elevation of the platform to permit circulation of fluid back and forth between the pump and the reservoir without influence upon said cylinder and piston device and for thereafter operating said second valve to permit flow of fluid from the cylinder and piston device directly to the reservoir and allow descent of the platform.

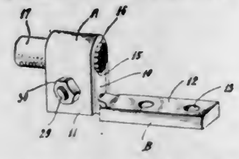
2,163,676
ELECTRICIAN'S TOOL
Nickolas Gizzarelli, Warren, R. I.
Application June 1, 1937, Serial No. 145,684
4 Claims. (Cl. 175—183)

1. In a combination screw driver and tester, a hollow body having an opening, a cradle in the body positioned to engage the sides of a neon signal lamp and support the same in position to be viewed through said opening, a neon lamp in said cradle, said cradle having a concave surface engaging an end portion of said neon lamp, a



metal shank at one end of the body, and means to electrically connect said shank and lamp.

2,163,677
CONNECTOR
Robert A. Goeller, Larchmont, N. Y.
Original application April 29, 1933, Serial No. 668,487. Divided and this application March 27, 1937, Serial No. 133,361
1 Claim. (Cl. 173—269)



The combination with a pair of members slidable with respect to one another, one of said members being formed as a yoke of flat metal and the other as an L shaped body member comprising an upright portion of rectangular section and substantially the width of the yoke members and a wide lug extension, the material of the extension outside said yoke being narrowed and thickened as it joins the upright portion, said yoke having aligned inwardly tapered openings at opposite sides thereof and said upright portion having an inwardly tapering opening therethrough and screw wedge means extending through said openings and adapted to move the body and yoke member relative to one another to clamp a conductor between them.

2,163,678
COLORED ROOFING GRANULE
Henry R. Gundlach, Baltimore, Md., assignor to Central Commercial Company, a corporation of Illinois
Application July 1, 1936, Serial No. 88,410
11 Claims. (Cl. 91—70)

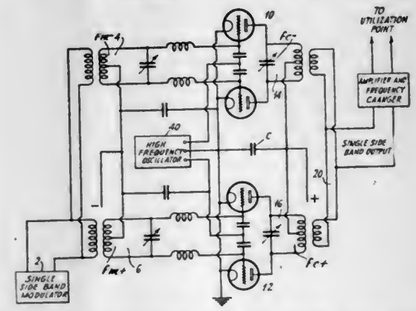


1. A method of coloring granules of mineral matter for use on composition roofing comprising coating the granule with a first-coat composition comprising a sodium silicate solution and an insolubilizer, drying the same on the granule and then applying a cementitious substantially insoluble material on said first coat, said material including phosphoric acid as the major ingredient aside from water and color pigment to the surface of the coated granule, and then drying the second coat.

2,163,679
PROCESS OF COLORING ROOFING GRANULES
Henry R. Gundlach, Baltimore, Md., and Paul Teetor, Poultney, Vt., assignors to Central Commercial Company, a corporation of Illinois
No Drawing. Application April 8, 1935, Serial No. 15,288
3 Claims. (Cl. 91—70)

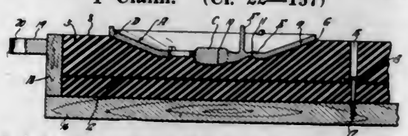
3. A method of coloring roofing granules which comprises selecting a frit having a fusing point not below 1800° F., mixing a color pigment therewith, selecting roofing granules of mineral matter having surface openings which enlarge when the granules are heated to said temperature, and fusing said frit on to the surfaces of the granules at a temperature high enough to cause incipient fusion of the surfaces only of the granules, whereby the color pigment is glazed on to said surfaces and blistering of roofing material on which the granules are used is prevented.

2,163,680
SINGLE SIDE BAND MODULATION
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 3, 1936, Serial No. 72,503
Renewed November 25, 1938
11 Claims. (Cl. 179—171)



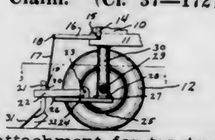
3. The combination with a signal modulated wave source, of a source of high frequency oscillations, two balanced modulator systems, each consisting of a pair of tubes, a detuned circuit for applying signal modulated carrier energy substantially in phase opposition to the input electrodes of one pair of tubes, a detuned circuit for applying signal modulated wave energy of different phase from said source substantially in phase opposition to the input electrodes of the tubes of said other pair of tubes, said circuits being detuned in different directions with respect to the mean frequency of said signal modulated energy means for applying high frequency oscillations in phase to the input electrodes of the tubes of each pair, and output circuits detuned in opposite directions with respect to the frequency of said high frequency oscillator coupled to the output electrodes of said tubes.

2,163,681
FLEXIBLE COPE
Chris K. Hansen, St. Paul, Minn.
Application October 25, 1937, Serial No. 170,832
1 Claim. (Cl. 22—157)



A false cope for making casting molds from patterns, the said cope being made of rubber heated and flowed around a pattern for forming a pattern impression in one face of the cope while leaving the opposite face plane, a sheet of reinforcing material imbedded in the cope parallel with the plane face thereof, and the portion of the cope around the pattern impression being formed of rubber of fine texture while the portion strengthened by the reinforcing sheet is formed of a coarse and crude rubber.

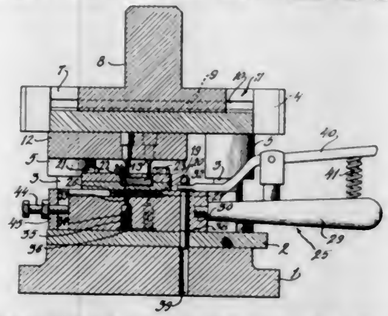
2,163,682
LEVELING SHOVEL ATTACHMENT FOR TRACTOR FRONT WHEELS
John A. Heeren, Le Mars, Iowa
Application January 12, 1938, Serial No. 184,577
1 Claim. (Cl. 37—172)



A leveling attachment for tractors comprising a shovel member positioned forwardly of the tractor front wheels for leveling the ground surface forwardly thereof, means for raising said shovel member to inoperative position, including a pair of straps, a shoe member attached therebetween, said shoe member having an angular projection to which said shovel is attached, a cable attached to said shoe member, means for pulling the cable upwardly, means for limiting downward movement of the shovel to a position flush with the lower sides of the tractor front wheels including a flat plate rigidly attached to the forward tractor spindle, said flat plate having a forward extension against which said straps rest when the shovel is in operative position, a pair of upstanding ears attached to said plate forwardly of said spindle, said straps being pivoted to said ears.

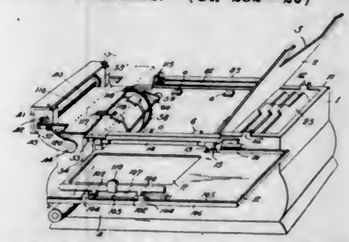
2,163,683
MEANS FOR CUTTING AND SETTING RIVETS
Ferdinand F. Heller, Royersford, Pa.
Application April 9, 1937, Serial No. 135,887
7 Claims. (Cl. 78—49)

1. A machine for cutting and placing rivets in frictional engagement with a plurality of parts having rivet holes therein, comprising: a base provided with a guideway; a pair of superposed plates mounted on said base to extend transversely of the guideway thereof, and having complementary recesses forming a slot adapted to receive a stock metal strip, each plate having a set of apertures opening in said slot, the apertures in one plate being aligned with the apertures in the other plate; a mechanism including rivet punches supported on said base over the plates, said punches being disposed for engagement with the apertures in the opposed plate and guided thereby into contact with said strip for punching rivets therefrom; and a support for engaging and retaining said parts in rivet receiving position and slidable on said base in and out of the



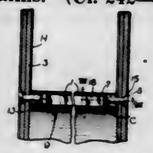
guideway thereof beneath the plates for bringing the rivet holes of said parts in alignment with the apertures of the opposed plate, whereby the punched rivets are guided into the rivet holes of said parts.

2,163,684
AUTOGRAPHIC REGISTER MACHINE
Mark B. Holmes and Arthur L. Rowland, Utica, N. Y.
Application October 29, 1937, Serial No. 171,729
3 Claims. (Cl. 282—20)



1. In an authographic register machine, a master shaft having discs mounted thereon and turning therewith, a roller cooperating with said discs, whereby to draw paper therebetween, a cam mounted on said shaft, a pawl mounted adjacent said cam and actuated thereby, a ratchet engaged by said pawl, a roller turning with said ratchet and a third roller cooperating with said roller turning with said ratchet, whereby to draw sheets of carbon paper therebetween.

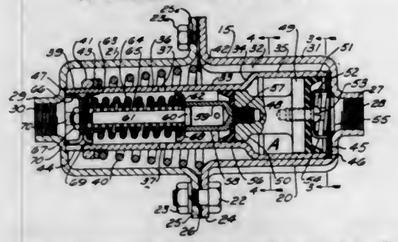
2,163,685
SPOOL CONSTRUCTION
Hilyard C. Howsam, Chicago, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois
Application June 6, 1938, Serial No. 212,002
10 Claims. (Cl. 242—124)



1. A spool comprising a barrel structure, opposed walls rigid with said barrel structure and extending inwardly therefrom, threaded nuts supported by and between said walls adjacent to

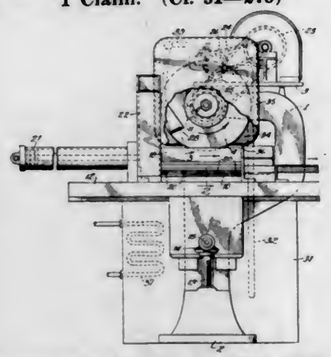
the ends of the barrel structure, head structures for the spool, and screws extending through said head structures for engagement with said threaded nuts for securing the head structures to the ends of the barrel structure.

2,163,686
BRAKE BOOSTER
George H. Hunt, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application September 18, 1937, Serial No. 164,481
10 Claims. (Cl. 60—54.6)



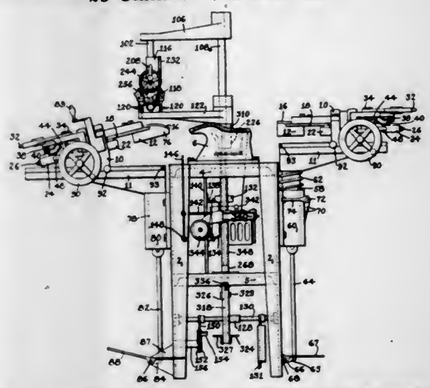
1. In a hydraulic braking system including a brake and a source of fluid pressure for actuating said brake, the combination with means interposed between said brake and said source of fluid pressure for increasing the ratio of pressure at the brake to pressure at the source upon a predetermined increase of pressure at said source, said means comprising a housing, a sleeve slidable longitudinally in said housing, said sleeve having a high pressure cylinder and a low pressure cylinder therein, a differential piston having a head in each cylinder, an inlet to said low pressure cylinder from said source of pressure, an outlet from said high pressure cylinder to said brake, and a by-pass for fluid around said sleeve connecting said inlet and outlet, said sleeve being moved longitudinally of said housing to close said by-pass by the pressure created upon the outside of said sleeve upon a predetermined increase in pressure at said source.

2,163,687
CUTTING
Arthur J. Jacobsen, Chicago, Ill., assignor to Bucyrus-Monighan Company, Chicago, Ill., a corporation of Illinois
Application January 10, 1938, Serial No. 184,165
1 Claim. (Cl. 51—278)



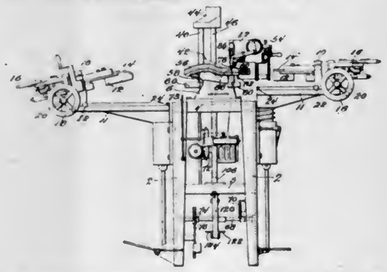
The method of cutting with a thin, flexible abrasive disk which consists in rotating the disk and causing its edge to contact with the material to be cut while projecting independent fluid streams in ribbon form, one to each side of the disk in the direction of rotation of the disk and toward the cutting edge thereof, projecting said streams at equal angles, rates, and velocities, to the sides of the disk and at a velocity to cause the fluid to travel with the disk and into the cut at, at least approximately, the peripheral speed of the disk.

2,163,688
MACHINE FOR MANUFACTURING SHOES
Anthony Labrie, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 31, 1935, Serial No. 56,966
23 Claims. (Cl. 112—34)



3. A machine for use in the manufacture of shoes having, in combination, a last to support the lasted upper and insole of a shoe, a sewing frame, sewing mechanism in the frame, a support upon which the sewing frame moves about the shoe as the sewing mechanism operates to sew a seam attaching an outsole to the shoe, and tracks on the support to guide the sewing frame and maintain the sewing mechanism in proper position with relation to the shoe during the formation of the seam.

2,163,689
METHOD OF AND MACHINE FOR MANUFACTURING SHOES
Anthony Labrie, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Original application December 31, 1935, Serial No. 56,966. Divided and this application December 14, 1937, Serial No. 179,681
15 Claims. (Cl. 12—6)



1. A method of making shoes which comprises

assembling an upper and an insole on a last, lasting the upper over the insole, placing an outsole on the lasted upper and insole, and securing the insole, upper, and outsole permanently together while on the last by a thread seam, the stitches of which pass through the parts and appear at the outer surface of the outsole and the inner surface of the insole.

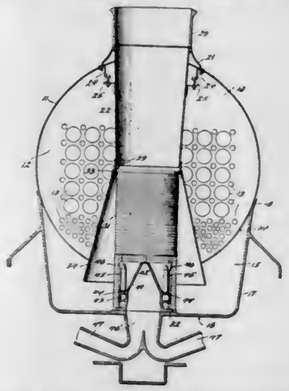
2,163,690

SMOKE BOX ARRANGEMENT

William F. Kiesel, Jr., Hollidaysburg, Pa., assignor of one-third to Virginia Kiesel Rutan, Chevy Chase, Md., one-third to John S. Kiesel, Williamsport, Pa., and one-third to William F. Kiesel, 3rd, Stewart Manor, Long Island, N. Y.

Application April 19, 1937, Serial No. 137,850

6 Claims. (Cl. 230—97)



1. A spark arrester for locomotives comprising in combination, a reticulated, tubular member adapted to be mounted within the smoke box, said member being formed of a plurality of like, circumferentially disposed and longitudinally spaced rings, each ring being formed of a band of strip metal and arranged to give the ring a frusto-conical form, the spacing of the bands and the disposition of the strips in each being such that no direct passages exist between the bands in line with the direction of flow of gases to the spark arrester, and a flaring petticoat so surrounding the said member that all products of combustion are directed upwardly along said member and are prevented from direct impingement thereon.

2,163,691

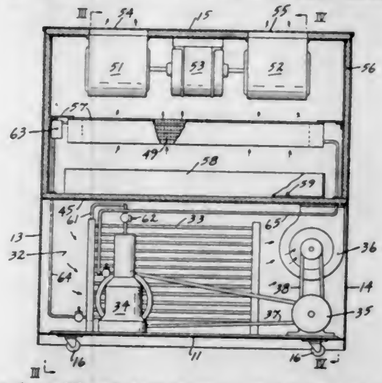
PORTABLE ROOM COOLING UNIT

Arthur J. Lichty, Birmingham, Ala., assignor to Baldwin-Southwark Corporation, a corporation of Delaware

Application November 7, 1932, Serial No. 641,549

1 Claim. (Cl. 62—129)

In a portable air cooler located in a room to be cooled, a cabinet having one compartment containing air cooling means, another compartment for housing a compressor and a condenser, a fan for circulating room air over said cooling means and thereby extracting moisture from said air, a third compartment, means for conducting said moisture to a moisture absorbent material in said third compartment, and means for circulating outside air first over the compressor and condenser and thence over the absorbent material, whereby the moisture is dissipated into the stream of air heated by the condenser and discharged



thereby without said room in which the air cooler is located.

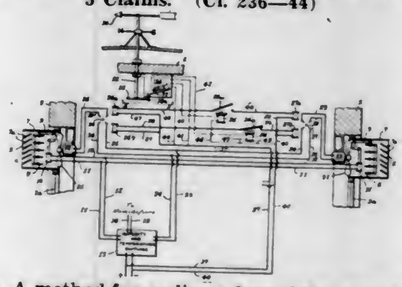
2,163,692

METHOD AND MEANS FOR CONDITIONING THE AIR IN AN ENCLOSURE

Albert J. Loepsinger, Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a corporation of Delaware

Application September 13, 1937, Serial No. 163,527

5 Claims. (Cl. 236—44)



5. A method for cooling a humidified enclosure within which the relative humidity of the air is to be maintained within predetermined upper and lower limits and which has provision for exchange of air between the inside and the outside of the enclosure, which method comprises controlling the said exchange of air to maintain said relative humidity within said limits and determining the direction of movement of the air in accordance with the direction of the wind outside said enclosure.

2,163,693

MOVING STAIRWAY

Samuel Gustave Margles, Brooklyn, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Application May 20, 1937, Serial No. 143,652

9 Claims. (Cl. 198—16)

8. A moving stairway comprising; a series of steps; a sprocket wheel at an end of the stairway; running gear chain driven by said sprocket wheel; a plurality of wheels for each step, one of which is a chain wheel; an axle for each of said wheels for each step; means for mounting said axles on said steps, the axles for said chain wheels passing through certain links of said chain in place of chain pins, thereby connecting said steps together; track for each of said wheels of each step for guiding them during movement of the step, each track comprising an upper run and a return run joined at their ends by curved end tracks to form a continuous track; and a spring for each step acting through said mounting means for said axles for said wheels of that step to exert forces to maintain all of said wheels for that step on their respective tracks, the running gear chain being provided with rollers be-



tween the links on the pins joining the links but not on the axles for said chain wheels, the chain being supported at these points when in mesh with the sprocket wheel by said chain wheels rolling on the curved end portion of their track at the end of the stairway at which said sprocket wheel is located.

2,163,694

FRAME

George Matthews and Harold E. Churchill, South Bend, Ind., assignors to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware

Application November 1, 1937, Serial No. 172,114

20 Claims. (Cl. 280—106)



1. A frame comprising a pair of side rails, a cross-bracing structure therefor comprising intersecting diagonal struts between said rails, each of said struts comprising a pair of channel members having their adjacent ends overlapping throughout the zone of intersection, the overlapping portions forming a box-like section.

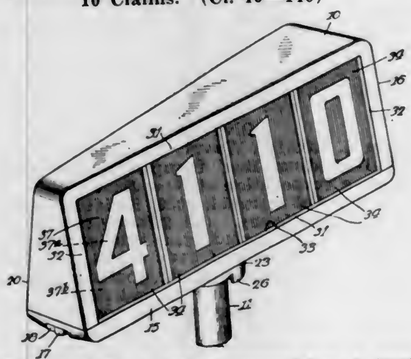
2,163,695

HOUSE NUMBER SIGN

Robert G. McConnell, Springfield, Ill., assignor of one-third to William D. McConnell and one-third to Fred W. Neuner, both of Springfield, Ill.

Application October 6, 1938. Serial No. 233,559

10 Claims. (Cl. 40—140)



2. In a sign, a casing comprising a boxlike structure having its sides made up of a plurality of rectangular reflecting units, each outlining a sign character, said sides converging forwardly and upwardly, and means for supporting said casing above, but adjacent to, the ground, whereby said characters will be reflected by light from a vehicle to indicate the house number of the premises.

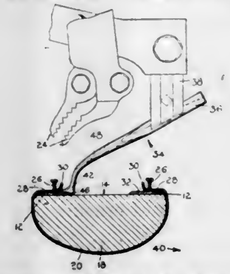
2,163,696

METHOD OF MAKING CEMENTED SHOES

Charles Miller, Long Island City, N. Y.; Ida Gordon Miller, executrix of said Charles Miller, deceased, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application November 19, 1934, Serial No. 753,585

12 Claims. (Cl. 12—145)



1. In a method of making cemented shoes in which there is utilized a hand method lasting machine having a sole rest and instrumentalities for lasting the upper and temporarily securing the marginal portion of an upper to an insole on a last, the steps of applying adhesive between said insole and marginal portion of the upper and presenting the upper and insole on the last for action by said instrumentalities while holding the last bottom against the sole rest in such position that the sole rest is interposed between the insole and the trimming-edge portion of the upper.

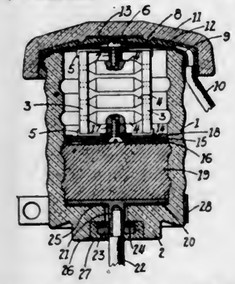
2,163,697

LIGHTNING ARRESTER AND METHOD OF ASSEMBLING

Walter E. Mittelstadt, Racine, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware

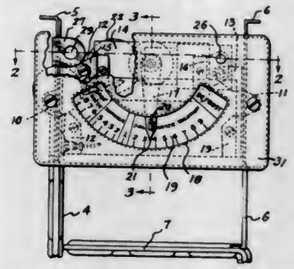
Application April 17, 1936, Serial No. 74,880

9 Claims. (Cl. 175—30)



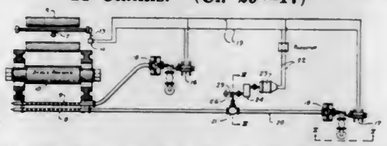
1. In a lightning arrester container having an arcing chamber provided with an arc gap and a valve chamber having a granular valve material therein, an electrode plate connecting said gap and valve material, said electrode plate including a pliable metal cup secured to said plate and having its side wall pressed longitudinally and radially of said container to exert a predetermined frictional pressure against the wall of the container, thereby to seal the valve chamber.

2,163,698
EVAPORATOR CONTROL MEANS
Roland H. Money, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio
Application June 8, 1937, Serial No. 147,152
6 Claims. (Cl. 62—4)



1. In combination with an evaporator having upwardly extending portions, bracket means attached to said portions, a temperature control switch mechanism mounted on said brackets and having an adjustment shaft, a lever mounted on said shaft, a face plate mounted on said evaporator and covering said bracket means and said temperature control means, said face plate having an arcuate perforation therein disclosing the end of said lever, and a scale associated with said lever whereby said lever is both an indicating means and an operating means for the adjustment of said temperature control switch.

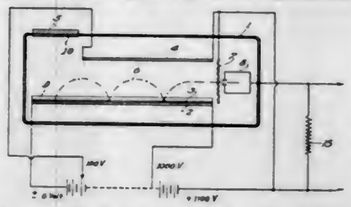
2,163,699
METHOD AND APPARATUS FOR ROLLING HOT STRIP MATERIAL
George F. Paul, Youngstown, Ohio
Application April 16, 1938, Serial No. 202,499
11 Claims. (Cl. 29—17)



4. A rolling mill for the hot rolling of metal strip material comprising at least on roughing stand, conveyor tables and at least a finishing stand, a cooling station on said conveyor table between the last roughing stand and the first finishing stand, a pair of spray nozzles, one above and one below said conveyor table, a trigger arm in the path of material moving over said table, a switch operatively connected to said trigger, a motor operating in a circuit containing said switch, an adjustable valve in the line supplying said spray nozzles and means operated by said motor for continuously operating said adjustable valve as the metal material passes said spray nozzles.

2,163,700
SECONDARY ELECTRON MULTIPLIER
Martin Ploke and Wilhelm Lang, Dresden, Germany
Application December 2, 1938, Serial No. 243,516
In Germany July 4, 1936
3 Claims. (Cl. 250—166)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. A secondary electron multiplier comprising an envelope provided with a transparent photo cathode and containing a plate-like longitudinal secondary electron emitting electrode adapted to be struck repeatedly at different places by the electron beam to be amplified, narrow strip-like members extending along the longitudinal edges



of said secondary electron emitting electrode and projecting above the electron emitting face thereof, a longitudinal accelerating electrode mounted parallel to said secondary electron emitting electrode and a collecting electrode.

2,163,701
FLOTATION PROCESS
Robert C. Ried, West Conshohocken, Pa., assignor to Separation Process Company, a corporation of Delaware
No Drawing. Application September 10, 1937, Serial No. 163,306
4 Claims. (Cl. 209—166)

1. A method of concentrating oxide ore minerals by froth flotation which comprises incorporating in a pulp of the mineral a quantity of an aqueous emulsion of a fatty acid stabilized by 5 to 7 parts of a sulphonated glyceride oil selected from the class consisting of the vegetable, animal and fish oils to 100 parts of fatty acid oil, by weight, and subjecting the pulp to froth flotation.

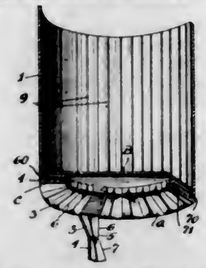
2,163,702
FLOTATION PROCESS
Robert C. Ried, West Conshohocken, Pa., assignor to Separation Process Company, a corporation of Delaware
No Drawing. Application September 10, 1937, Serial No. 163,307
10 Claims. (Cl. 209—166)

1. A method of concentrating oxide ore minerals by froth flotation which comprises incorporating in a pulp of the mineral a quantity of an aqueous pre-formed emulsion of a mixture of a fatty acid oil and a mineral oil, in which the proportion of fatty acid oil is equal to at least 30% of the weight of the mineral oil, stabilized by a quantity of caustic alkali in excess of that necessary to saponify the fatty acid, and subjecting the pulp to froth flotation.

2,163,703
CONTAINER
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application February 11, 1938, Serial No. 189,933
13 Claims. (Cl. 229—5.5)

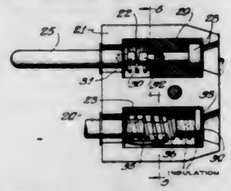
1. A container including, a tubular body portion, tongues extending from one end of said body portion, a body-expanding disc positioned within said body portion forming an end closure for the container, and a locking member positioned exterior to said disc, said tongues each having a portion extending exterior to said locking member and an end portion extending outwardly between said locking member and said disc, the outwardly

extending end portions of said tongues having their side edges in close abutting relationship, said



locking member and tongues cooperating to provide a supporting seat for said disc.

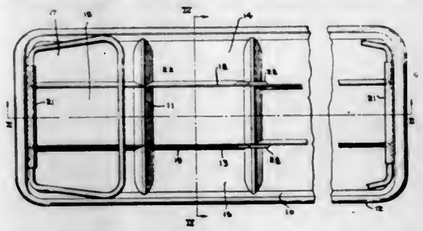
2,163,704
ELECTRIC IRON AND STAND THEREFOR
Oliver C. Ritz-Woller, Chicago, Ill.
Application November 29, 1937, Serial No. 176,991
4 Claims. (Cl. 219—25)



1. In an arrangement of means for feeding current to an electric iron, the combination of two contact members mounted on an iron in spaced relation to each other and extending backwardly from the iron, and a cooperating plug mounted on a stand and comprising a body of insulating material, two contact members resiliently mounted at the front face of the plug in position for engagement by the contact members of the iron so as to be moved backwardly in said plug by the contacts on the iron when the iron is moved longitudinally of the stand into normally operative position thereon, two other contact members carried by said body and extending from its rear face in spaced relation to each other for connection with the plug of a cord for feeding electric current to an iron on the stand, means providing a permanent electric connection between the movably mounted contact member at one side of the plug and the corresponding one of the contact members extending backwardly from the body of the plug, and means providing a make and break connection between the movably mounted contact member at the opposite side of the plug and the corresponding contact member extending backwardly from the body of the plug.

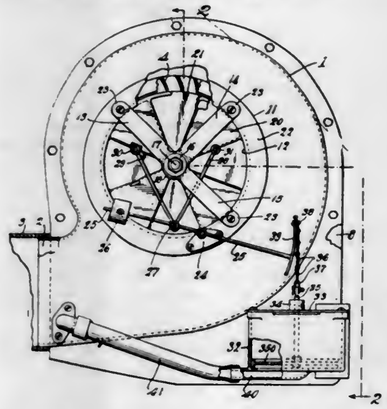
2,163,705
ICE TRAY
Jules N. Saler, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 30, 1936, Serial No. 93,476
5 Claims. (Cl. 62—108.5)

1. A grid structure for dividing an ice tray into compartments for forming separate particles of ice comprising a plurality of substantially straight flexible metallic wall members extending longitudinally of said ice tray and having portions disposed in a generally vertical direction with other portions disposed at such a small angle to the vertical portions as to provide ready flexing of the angular portions toward the vertical plane to facilitate the loosening of the ice from the longitudinal flexible walls, and means for retaining said strips together to form a



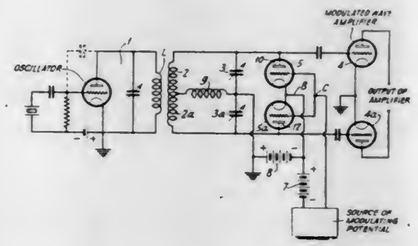
unitary grid structure, said retaining means being disposed adjacent the ends of the wall members and constituting the sole connection between them, said angularly disposed portions of the wall member assisting in lifting the frozen ice out of the ice tray when the grid structure is raised from the ice tray.

2,163,706
AIR CONTROL FOR BLOWERS FOR AUTOMATIC STOKERS
William W. Sayers, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application August 5, 1938, Serial No. 223,178
2 Claims. (Cl. 230—114)



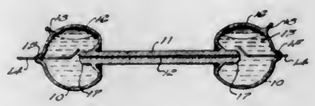
1. In combination, a blower, a housing therefor apertured concentric with the blower, a plurality of bladed shutters concentric with and rotatable in the aperture, the blades on each shutter being spaced apart, the blades on one being adapted to coincide with the apertures between the blades on the other, a rock arm, links, between the rock arm and each shutter on opposite sides of the center of rotation of the shutters of such a nature that movement of the rock arm causes the shutters to move in opposition toward and from one another, means responsive to the velocity of the air on the discharge side of the blower to rotate the rock arm to open and close the shutters, said means comprising a rotatable vane exposed to the blast of air discharged by the blower and a mechanical connection between the vane and the rock shaft.

2,163,707
WIDE BAND MODULATION
Goswin Schaffstein, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application February 27, 1937, Serial No. 128,045
In Germany February 27, 1936
4 Claims. (Cl. 179—171)



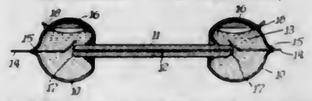
1. In a system for impressing a wide band of signalling potentials on wave energy of carrier wave frequency, a modulated wave amplifier comprising a pair of tubes having input electrodes and having output electrodes from which amplified modulated wave energy may be taken, a reactance of low impedance to potentials of modulation frequency connecting said input electrodes in push pull relation, a pair of electron discharge devices each having a plurality of electrodes including one which serves to control the impedance thereof, means connecting a pair of the electrodes in each device in series and connecting the series connection in shunt to a portion of said reactance, said reactance forming a short circuit of the impedances of said devices for potentials of modulation potential frequency, means for applying modulating potentials of like phase to said one electrode in each device to control at modulation potential frequency the impedance of said devices, and means for impressing wave energy of carrier wave frequency on said reactance.

2,163,708
MEANS FOR CONTROLLING ELECTRIC CIRCUITS
Kurt E. Schimkus, Detroit, Mich., and Willy Dumke, Chicago, Ill., assignors, by mesne assignments, to Hannah C. Chereton, Detroit, Mich.
Application January 30, 1935, Serial No. 4,056
Renewed November 4, 1938
10 Claims. (Cl. 200—113)



1. A circuit controlling device comprising in combination a container having a restricted bore opening into the body of the container, a contact terminal having a portion exposed within the body of the container, the container being completely filled by a quantity of mercury and by a free gas bubble, so as to allow for expansion and contraction of the mercury, the quantity of the mercury being sufficient to cover the end of the bore and engage the terminal in any position of the device.

2,163,709
MEANS FOR CONTROLLING ELECTRIC CIRCUITS
Kurt E. Schimkus, Detroit, Mich., assignor to Hannah C. Chereton, Detroit, Mich.
Original application January 30, 1935, Serial No. 4,056. Divided and this application December 15, 1937, Serial No. 179,893. Renewed October 12, 1938
24 Claims. (Cl. 200—113)



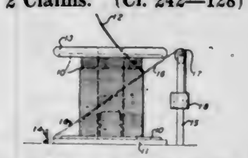
1. In a device for rapidly and recurrently increasing and decreasing current flow in a circuit having a substantially constant voltage applied thereto, the combination of means providing a passageway, current conducting material filling said passageway to provide a conductor for current, said material having the property of changing its physical state when heated to a state in which the material is a substantial non-conductor of the current subjected thereto, said passageway being dimensioned so that the normal quantity of current flowing therethrough produces heat energy sufficient for causing said change of physical state, and means for connecting said material in the circuit.

2,163,710
HOLDER FOR ARTICLES
Leo J. Schockling, McKeesport, Pa.
Application April 15, 1938, Serial No. 202,191
10 Claims. (Cl. 24—3)



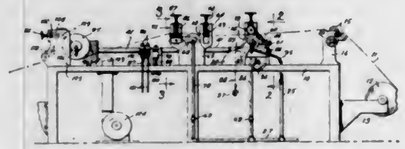
4. A holder for positioning in a garment pocket a handkerchief which is placed in the pocket with a portion protruding, said holder comprising a body portion of relatively flexible material such as leather resting at its lower end on the bottom of the pocket, and two straps secured to said body portion at its edges and encircling the handkerchief and provided at their ends with means for securing them together to secure the handkerchief to the holder in an adjusted position.

2,163,711
STRAND HANDLING APPARATUS
John N. Selvig, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 12, 1937, Serial No. 147,907
2 Claims. (Cl. 242—128)



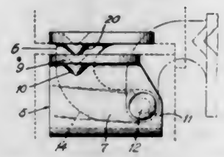
1. In a strand handling apparatus, strand supply means comprising a supply reel to hold strand material wound in coils thereon and having a head over which the strand material may be drawn in successive coils, a retainer strand passing helically over the strand material on the reel and engaging the surface coils thereof, and means positioned to yieldingly hold the retainer strand in contact with the surface coils of the strand material to prevent displacement of the coils thereof until forcibly withdrawn coil by coil over the said head.

2,163,712
COATING MACHINE
Walter V. Shearer, West Springfield, Mass., assignor to The Beveridge-Marvellum Company, Holyoke, Mass., a corporation of Massachusetts
Application April 22, 1938, Serial No. 203,523
4 Claims. (Cl. 91—18)



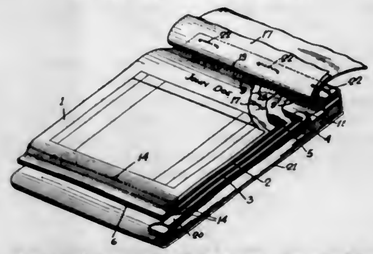
3. A machine for applying thermo-plastic coatings to webs of paper and the like which comprises means to advance the web, a reservoir for the coating material, an intaglio printing roll for transferring material from the reservoir to the web, a reversely rotating smoothing roll engaging the coated surface of the web and a common heating system for the reservoir, printing roll and smoothing roll through which Dowtherm is constantly circulated.

2,163,713
CONCEALED HINGE
Joseph Soss, Roselle, N. J.
Application April 22, 1938, Serial No. 203,521
2 Claims. (Cl. 16—135)



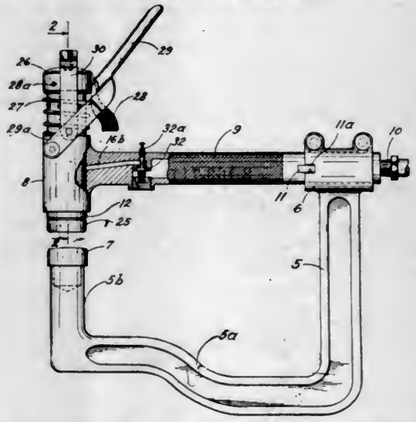
1. In a concealed hinge of the class described, a hook arm butt part formed from two similar L-shaped plates, each having a hook arm portion and an angularly extending attaching plate portion, the hook arm portion of one part being arranged directly upon and secured to the hook arm portion of the other part with said attaching plates extending in opposite directions to each other at adjacent corner portions of said parts, the corner portions of each part where the hook arm joins the attaching plate having substantially V-shaped inwardly offset portions arranged in alinement with each other for reinforcing the arm and plate of each part where they join at said corner portions, the hook arm portions extending from one side edge of the attaching plate portion, said side edge adjacent said hook arm portions extending to form projecting tongues, and the tongue of one plate abutting the tongue of the opposed plate in secured position to further reinforce said butt of the hinge.

2,163,714
MANIFOLDING BOOK
Harry Stevens, Oakland, Calif., assignor, by mesne assignments, to Pacific Manifolding Book Company, Inc., a corporation of Delaware
Application April 1, 1932, Serial No. 602,457
27 Claims. (Cl. 282—24)



1. A manifolding book having, in combination, a binding, a plurality of manifolding units, each unit comprising a plurality of record leaves and a carbon leaf in superposed manifolding relation to each other, and united together outside of said binding for detachment as one from the book, one of the leaves in each unit having a binding extension projecting past the edges of certain other leaves and being bound in the book by said binding, the carbon leaf in each said unit having an edge portion displaced from the adjacent edges of the record leaves of the unit at a point remote from its union to the other leaves to provide a selective grip area in the unit, the record leaves, in each unit, having weakened, parting lines between their connection with said carbon leaf and said selective grip area.

2,163,715
METHOD OF AND TOOL FOR SHAPING AND IRONING SHEET METAL
Faye P. Stull, Youngstown, Ohio
Application September 14, 1933, Serial No. 689,436
25 Claims. (Cl. 153—32)



2. A power tool for ironing and shaping sheet metal comprising a rigid frame of generally U-shaped contour having a hollow die-holding portion at one extremity and a clamp at its opposite extremity, a die in said hollow portion, a handle member fixed at one extremity in said clamp and having a housing at its opposite extremity, and a fluid-actuated hammer assembly carried by

said housing and including a hammer die in aligned relation with said die.

19. The method of ironing and shaping sheet metal which consists in disposing a pair of dies in opposed relation against opposed surfaces of the metal to be operated upon, maintaining the dies continuously in contact with the said surfaces and under manually-controlled pressure while moving the dies over said surfaces and delivering a series of impact blows to at least one of said dies.

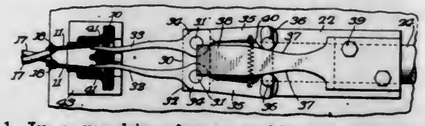
22. The method of ironing and smoothing distorted and stretched areas of sheet metal which consists in first drawing the metal in the distorted area into one or more gathers and then subjecting the gathers to the action of opposed dies to iron out the gathers and work the gathered metal into the adjacent area.

2,163,716

ELECTRIC CONNECTOR PLUG ASSEMBLING MACHINE

Russell J. Turner, Butler, Pa., assignor to Belden Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application January 26, 1935, Serial No. 3,673
11 Claims. (Cl. 29—84)



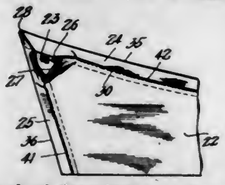
1. In a machine for assembling an electrical contact prong with an electrical connector plug body having a sinuous passageway extending therethrough for the reception of the contact prong, the combination of a base, a holder on said base for a connector plug body, a finger carried by said base so as to be movable longitudinally through the sinuous passageway in a plug body in said holder and also laterally so as to be adapted to follow said sinuous passageway, means for actuating said finger so as to move the same forwardly and then rearwardly through said passageway, means for causing a portion of said finger to move laterally during its movement through said opening to approximately follow the course of said passageway, and means carried by said finger for engaging a contact prong during the return or rearward movement of the finger for pulling such prong into said body.

2,163,717

WEARING APPAREL AND METHOD OF MAKING THE SAME

Howard C. Underwood, New York, N. Y.

Application March 9, 1936, Serial No. 67,744
12 Claims. (Cl. 2—131)



1. A method of forming wearing apparel having a face material, a lining and a stiffener, consisting in forming the stiffener with a general shape and dimension corresponding to the face material but with a corner cut away, folding the corner of the face material over the cut-away corner of the stiffener, folding the face material and stiffener to form intersecting hems at the corner, and applying the lining thereto.

2,163,718

ARTICLE OF ATTIRE

Howard C. Underwood, Flushing, N. Y.

Application November 2, 1938, Serial No. 238,369
7 Claims. (Cl. 154—46)



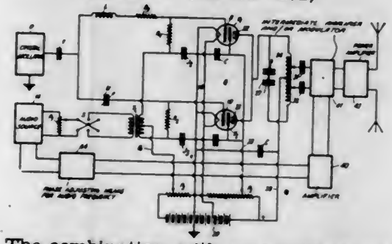
1. An article of attire comprising a woven multiply body portion having binding warp threads creating projections and hollows on the exposed side of the ply being more accentuated than on the inside face of the ply, a single ply facing fabric, said body portion and facing fabric being juxtaposed, and an adhesive substance comprising essentially a plasticized cellulose derivative applied to said side having the projections and hollows, and securing grip-hold thereby, said adhesive substance also securing the facing fabric juxtaposed on said body portion directly thereto.

2,163,719

MODULATION

George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application July 23, 1932, Serial No. 624,258, now Patent No. 2,075,071, dated March 30, 1937. Divided and this application October 1, 1935, Serial No. 43,013
19 Claims. (Cl. 179—171)



1. The combination, with an amplitude modulator comprising a modulator tube connected to a source of carrier frequency oscillations and a source of modulating potentials and an output circuit, of means for compensating any phase modulation inherently accomplished in said amplitude modulator including, a pair of thermionic tubes each having an anode, a cathode and a control grid, a connection between the anodes of said tubes and said modulator tube, circuits connecting the control grids of said tubes through phase shifting elements of different character to said source of carrier frequency oscillations, said pair of tubes being in said connection between said source of carrier frequency oscillations and said modulator tube, circuits connecting the grid to cathode impedances of said tubes in phase opposition to said source of modulating potentials connected with said amplitude modulator whereby phase modulation of said carrier frequency oscillations in accordance with said modulating potentials is accomplished in said tubes and circuits, and impressed on said amplitude modulator whereby the phase modulation inherently produced by said amplitude modulator is opposed and compensated by said other phase modulation.

2,163,720

PREPARATION OF ACETYLENIC ALCOHOLS

Thomas H. Vaughn, Niagara Falls, N. Y., assignor to Union Carbide and Carbon Research Laboratories, Inc., a corporation of New York

No Drawing. Application July 20, 1937, Serial No. 154,564
18 Claims. (Cl. 260—617)

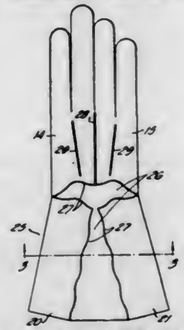
1. Process for producing an acetylenic alcohol which comprises the steps of reacting a saturated ketone with an alkali metal hydroxide in finely-divided solid form, and treating the resultant mixture with acetylene at a temperature inhibiting the production of unsaturated ketone-condensation products not convertible to acetylenic alcohols.

2,163,721

GLOVE

Pierre Leon Vernhes, Johnstown, N. Y.

Application December 10, 1938, Serial No. 245,002
4 Claims. (Cl. 2—159)



1. A glove comprising a blank of flexible material having centrally disposed portions forming a covering for the palm of the hand, the front of the fingers and the front of the wrist, and side portions overfolded said central portions and forming a covering for the backs of the fingers and the back of the hand; said side portions being provided near the wrist with slits extending inwardly from the edges thereof substantially to the lines of fold, and having the portions of said blank adjacent said slits spread apart; and a gore secured between the edges of said slits and the edges of said side portions to form a flaring gauntlet for said glove.

2,163,722

RECEPTACLE

Anthony F. Wallbillich, Hollis, N. Y., assignor to Leviton Manufacturing Company, Brooklyn, N. Y., a corporation of New York

Original application December 2, 1930, Serial No. 499,443, now Patent No. 2,082,994, dated June 8, 1937. Divided and this application December 5, 1936, Serial No. 114,300
6 Claims. (Cl. 173—330)



1. A receptacle comprising a plate having a plurality of similar apertures therethrough and notches communicating with said apertures, similar bodies disposed in said apertures and each comprising shoulders engaging the face of said plate and a laterally extending projection adapted to pass through a notch communicating with said aperture and adapted to engage the back of said plate upon rotation of the body in the aperture, and means securing the bodies together to prevent rotation thereof and to hold said projections out of registry with said notches, said means comprising an insulating plate attached to said bodies.

2,163,723

CELLULOSE DERIVATIVES AND METHOD OF PREPARING SAME

William Whitehead, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application November 23, 1937, Serial No. 176,067
6 Claims. (Cl. 260—231)

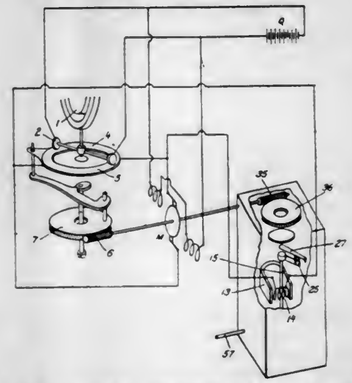
1. Process for the production of cellulose ethers, which comprises treating cellulosic materials with a quaternary substituted ammonium base and then reacting the so-treated materials with an etherifying agent in the presence of an organic diluent.

2,163,724

METHOD OF AND MEANS FOR CONTROLLING APPARATUS

Robert Alkan, Paris, France

Application June 10, 1935, Serial No. 25,952
In France November 27, 1934
15 Claims. (Cl. 114—144)



1. In an automatic piloting device, a commutator member, means for continuously oscillating said member, a contact member cooperating with said commutator, a directional gyroscope connected to and positioning said contact member, electric connections to said contact member and commutator member whereby oscillation of said commutator member will produce periodic alternating electromotive power in the connections to the commutator.

2,163,725

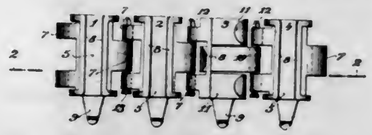
METALLIC CARTRIDGE BELT

Theodor Emil Bergmann, Schoeneberg, near Berlin, Germany

Application April 25, 1936, Serial No. 76,475
In Germany April 29, 1935
4 Claims. (Cl. 89—33)

1. A metallic cartridge belt comprising a plurality of holders, each holder being provided with

integral hinge members on both sides adapted for interengagement with corresponding members on adjacent holders, removable hinge pins engaging opposing members to form a hinge and bracing bridge portions extending the entire length of the holder and integral therewith, forming clamping jaws for a cartridge; the hinges being so arranged



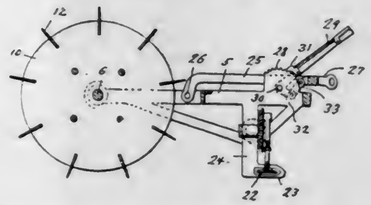
that the horizontal plane through the hinge axis coincides with the horizontal plane through the central axis of the cartridge inserted in the belt, and flexible lugs extending from the sides of the holder adapted for giving additional support to the cartridge, these lugs being independent of the tension action on the hinges of the belt.

2,163,726

AGRICULTURE MACHINE

Desco Blunt, Venango, Nebr.

Application May 16, 1938, Serial No. 208,261
2 Claims. (Cl. 97—44)



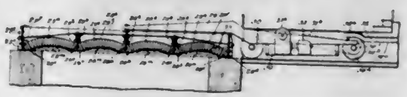
1. An agriculture machine of the character described comprising a frame, a rotatable reel mounted on the rear portion of the frame, and a sub-soil blade mounted on the forward portion of the frame, and means for horizontally reciprocating the said sub-soil blade.

2,163,727

REMOVABLE TOP FOR SOAKING PITS

William T. Dean, Gary, Ind.

Original application October 12, 1936, Serial No. 105,336. Divided and this application May 17, 1937, Serial No. 143,226
3 Claims. (Cl. 268—10)



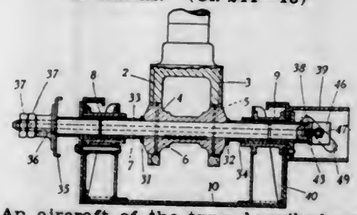
1. In a heating furnace, the combination of a cover, means for retracting said cover, said means comprising a truck having forward and rear wheels, a cantilever carried by said truck and supporting said cover, lower and upper tracks for said front and rear wheels, respectively, power means mounted on said truck, drive means therefor, said drive means including said rear wheels and said upper tracks each having cooperating teeth, and said upper tracks having offset portions for tilting said cantilever for seating and unseating said cover upon said furnace.

2,163,728

AIRCRAFT

John William Dyer, Netley Abbey, Southampton, England, and David Kay, Edinburgh, Scotland, assignors to Kay Gyroplanes Limited, Edinburgh, Scotland

Application July 27, 1936, Serial No. 92,914
In Great Britain July 31, 1935
21 Claims. (Cl. 244—18)



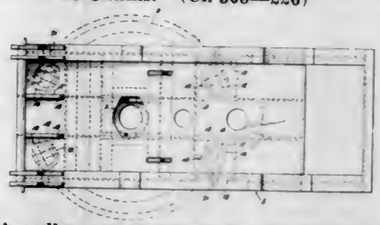
1. An aircraft of the type described comprising a rotor supporting member tiltable about its point of support, means for tilting the rotor supporting member, and means responsive to the movement of said tilting means to move the point of support of the rotor supporting member to vary the degree of shift in the position of the center of lift of the rotor caused by the tilting.

2,163,729

SWIVEL ROLLER CONSTRUCTION

Hilmer N. Ekbom and Edward Korensky, Chicago, Ill., assignors to Link-Belt Company, a corporation of Illinois

Application April 9, 1938, Serial No. 201,191
19 Claims. (Cl. 308—226)



1. A roller construction for locomotive and crawler cranes, shovels, and the like, comprising a traction device having a roller circle or race associated therewith, an upper rotatable structure, having a load manipulating device mounted on one end portion thereof, centered with respect to the roller circle or race, rollers for supporting the upper structure on the said circle or race, and means for connecting two of said rollers to the upper structure at the end portion having said device so as to permit the rollers to swivel relative to the upper structure about a common axis extending transversely of the upper structure in response to tilting of the upper structure as a result of load manipulation.

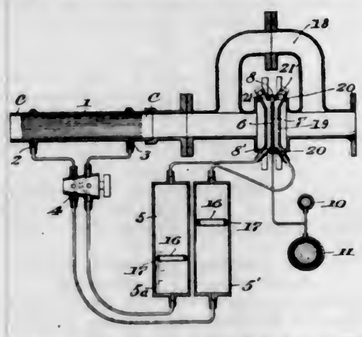
2,163,730

INTEGRATING CALORIMETER

Manlio Goetzl, Trieste, Italy

Application March 18, 1936, Serial No. 69,573
In Italy March 29, 1935
17 Claims. (Cl. 73—193)

1. A calorimeter for measuring the heat consumed or produced in a heating system having a flow of heat-carrying medium through a conduit, comprising means in the conduit for producing by internal friction a determined fall of pressure between opposite ends of said means directly proportional to the velocity of flow of said medium in the conduit, a by-pass around said means and in parallel therewith, a gauge in said by-pass having an orifice of such dimensions that the velocity of the medium through the by-pass, which is controlled by the difference in pressure produced by



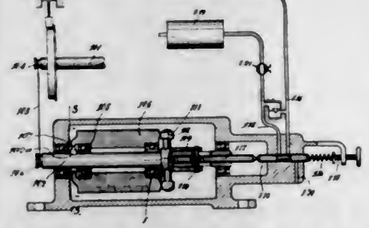
said means in the conduit is also proportional to this difference of pressure and that the quantity of said medium through the by-pass is directly proportional to the quantity of flow of said medium in the main conduit, and means for measuring the quantity of flow of said medium through said by-pass.

2,163,731

AUTOMATIC REGULATING DEVICE FOR BRAKES

Paul Hallot, Paris, France

Application March 1, 1937, Serial No. 128,530
In France March 6, 1936
3 Claims. (Cl. 188—181)



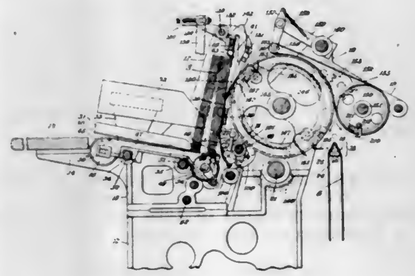
1. In a vehicle mounted on wheels having a brake adapted to act on said wheels, and means for adjusting the action of said brake, an automatic regulating device which comprises, in combination, a frame, two revolving members rotatable in said frame about a common axis and axially slidable with respect to each other, one of said members being of high inertia, transmission means for angularly coupling the other member with said wheels, abutment means, between said two members, for transmitting the rotary motion of said second mentioned member to the first mentioned member, with the possibility, in the case of negative acceleration of said motion, of a relative angular movement of said members about said axis with respect to each other, means for producing an axial sliding of said members with respect to each other in response to said angular relative movement, adjustable elastic means for yieldingly opposing said axial sliding displacement, means for adjusting said elastic means, and means, responsive to said relative sliding displacement of said members, for operating said brake action adjusting means.

2,163,732

SHEET OR SIGNATURE FEEDING AND GATHERING

Paul E. Kleineberg, Paul Schweizer and Andrew W. Wilks, Easton, Pa., assignors to T. W. & C. B. Sheridan Company, New York, N Y., a corporation of New York

Application August 12, 1937, Serial No. 158,684
32 Claims. (Cl. 270—54)



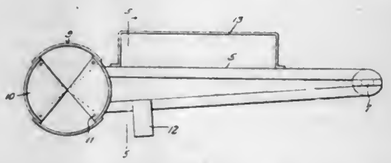
1. A sheet or signature feeding mechanism comprising a hopper for holding a horizontal stack of signatures standing edgewise, said hopper having a supporting bottom, a front abutment against which the first or front signature bears, and side gage members or walls arranged or spaced to cause the stacked signatures to assume a rearwardly concave curvature thereby stiffening them to stand edgewise, means for feeding the stack progressively frontward as the signatures are extracted, and means to separate or deflect frontwardly each signature coming to front position and to grip and extract it from the stack for transfer to a gathering or other mechanism.

2,163,733

UTENSIL

Maurice Latham, Jay, Maine

Application January 26, 1939, Serial No. 252,982
5 Claims. (Cl. 107—48)



1. A utensil comprising a conical shaped body including pairs of substantially triangular shaped sections each transversely curved, pivots connecting the sections, with one pair of sections having overlapping relation to the other pair of sections, and a handle for said body to bring about pivotal movement of the sections for opening and closing the body at the apex end thereof.

2,163,734

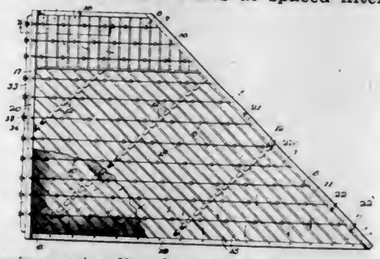
SEPARATOR DECK

Louis Franklin McCleary and Howard L. Hammond, Twin Falls, Idaho

Application March 17, 1937, Serial No. 131,482
4 Claims. (Cl. 209—486)

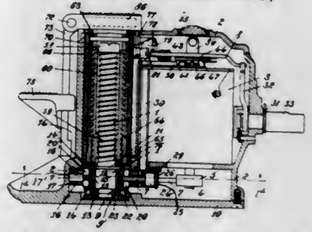
1. A separator deck comprising a frame, a pervious covering for the frame, air-flow directing

vanes disposed beneath said covering, pegs extending through said vanes at spaced intervals,



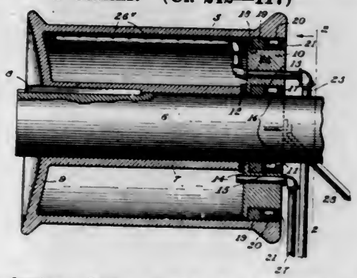
and wires extending beneath said covering and supported by said pegs.

2,163,735
ELECTRICALLY DRIVEN VEHICLE JACK
Willy Müller, Munich, Germany
Application September 10, 1936, Serial No. 100,088
In Switzerland and Germany September 16, 1935
9 Claims. (Cl. 254—103)



1. In a jack comprising an electric motor and a jack shaft, a rotatable member operative upon rotation in opposite directions to raise and lower said jack shaft, and means connecting said motor to said rotatable member to drive the same, said connecting means comprising a shaft connected to said motor and driven thereby, two one-way clutches operable in opposite directions and each comprising a clutch element secured to said rotatable member and a second clutch element cooperating therewith to drive the first clutch element upon movement in one direction only, an eccentric on said motor shaft, an oscillatable lever, means connecting said eccentric and lever whereby rotation of said motor shaft imparts oscillations to said lever, and means for selectively connecting said second clutch elements to said lever.

2,163,736
CATHEAD
George N. Parker, Shreveport, La.
Application August 15, 1938, Serial No. 225,014
2 Claims. (Cl. 242—117)



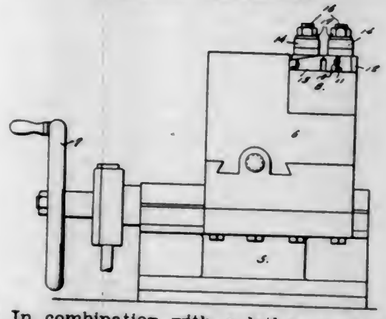
1. A device of the character described, comprising, a hollow spool having opened and closed ends, a centrally disposed tube extending therethrough and integrally connected to said closed end, said tube adapted to be secured to a drive shaft extending therethrough for rotating said spool, a stationary block closing said opened end of said spool and equipped with packing rings effecting seals about said shaft and said open end, and a supply pipe extending through said block and spool and having an apertured section extending in parallelism and in close proximity to the inner face of said spool whereby to cool said inner face when liquid is discharged through said apertures.

2,163,737
AUTOMATIC DIAPHRAGM WORKING BY MEANS OF A PHOTOELECTRIC CELL, A LIGHT-SENSITIVE ELEMENT, OR THE LIKE
Frederik Berthus Archibald Prinsen, Scheveningen, Netherlands
Application September 30, 1933, Serial No. 691,721
In the Netherlands October 4, 1932
3 Claims. (Cl. 95—64)



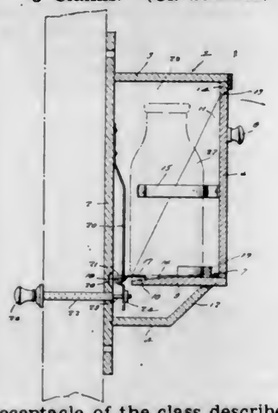
1. In a photographic camera, a photographic object lens, a device for the control of light entering the camera through said object lens, a photoelectric cell, a moving coil instrument deriving current from the photoelectric cell, means whereby the said device is controlled by the moving coil instrument, and a magnet for the production of a magnetic field for the moving coil instrument, the said photo-cell surrounding the optical axis of the photographic object lens, said light control device including at least one pivoted diaphragm element having a substantially hyperbolic curved slit tapering in the direction of movement of said element.

2,163,738
LOCOMOTIVE AND CAR WHEEL TIRE SHAPING TOOL
Martin Sainich, Livingston, Mont.
Application July 29, 1938, Serial No. 222,048
4 Claims. (Cl. 82—36)



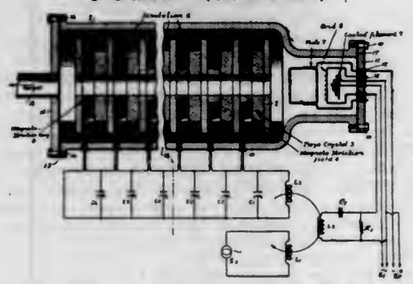
1. In combination with a lathe carriage adjustable longitudinally and transversely relative to a car wheel tire mounted on the lathe, a base mounted on said carriage for movement therewith, and cutting tools mounted for longitudinal adjustment on the base and one of said tools having a cutting edge for cutting a tire flange and a portion of the tread of the tire and the other tool having a cutting edge for cutting the remaining portion of the tread of the tire, said cutting edges coacting to cut the tread with a determined taper thereto with one tool when cutting overlapping a portion of the tread acted on by the other tool.

2,163,739
MILK BOTTLE RECEPTACLE
Harry P. Speer, Council Bluffs, Iowa
Application February 18, 1938, Serial No. 191,314
3 Claims. (Cl. 232—41)



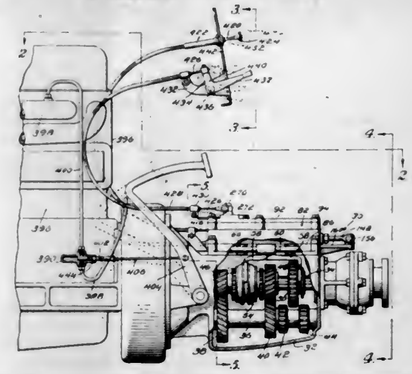
1. A receptacle of the class described comprising a cabinet for the reception of a bottle, a closure pivotally mounted on said cabinet, a platform fixed on the closure substantially at right angles thereto for swinging movement therewith and adapted to support the bottle, a resilient latch mounted in the cabnet and including a loop, a resilient latch mounted on the platform and operable by the bottle and engageable with the first named latch for securing the closure in closed position, the second named latch comprising a raised portion engageable by the bottle for depressing said second named latch on the platform, said raised portion terminating in a bead engageable in the loop of the first named latch, and manually operable means connected to said first named latch for disengaging same from the second named latch.

2,163,740
PHASE WAVE ION GUN
Nathaniel B. Wales, Jr., New York, N. Y.
Application November 26, 1935, Serial No. 51,580
Renewed January 9, 1939
6 Claims. (Cl. 250—27)



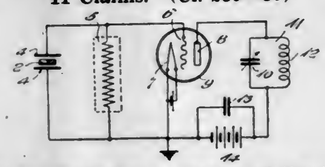
1. A device to electrostatically accelerate charged particles, comprising a source of charged particles, a plurality of electrostatic generators sequentially aligned to form a path of acceleration for said particles, said generators having relative phase of potential means to form an accelerating region of maximum potential gradient to accelerate said charged particles along said path.

2,163,741
GEAR SHIFTING MECHANISM
Joshua C. Weaver, Chicago, Ill.
Application August 21, 1936, Serial No. 97,258
5 Claims. (Cl. 74—334)



1. The combination with transmission gears of an automotive vehicle, of a power unit, manually actuated means for setting the power unit in operation, manually actuated means for preselecting the speed adjustment of the transmission gears, a shifting pin operatively connected with the transmission gears for adjusting the same to the preselected speed, a carrier for supporting the shifting pin, means carried by the carrier for controlling the movement of the shifting pin, and an operating connection between the shifting pin and the power unit, said operating connection including a bell crank pivotally mounted on the carrier and connected with the shifting pin including means for latching the bell crank against pivotal movement.

2,163,742
APPARATUS FOR PROTECTING PIEZOELECTRIC CRYSTALS FROM OVERLOAD
John M. Wolfskill, Erie, Pa., assignor to Bliley Electric Company, a partnership composed of F. Dowson Bliley and Charles Collman, both of Erie, Pa.
Application April 6, 1938, Serial No. 200,529
11 Claims. (Cl. 250—36)



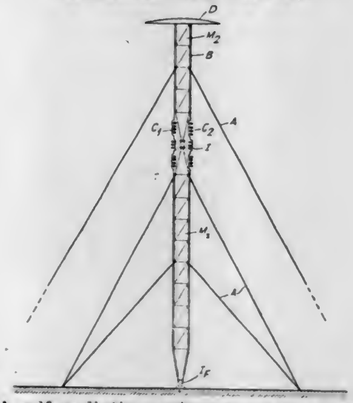
1. In an oscillation generator of the type employing a piezo electric crystal frequency controlling or stabilizing element, the combination of: an oscillation generating tube having a work circuit connected thereto, a piezo electric crystal having predetermined frequency characteristics connected to said tube, a continuously conductive resistance element having a non-linear resistance-voltage characteristic, means for connect-

ing said resistance element across said crystal, the characteristics of said resistance element being such that the high frequency voltage across said crystal is continuously maintained at predetermined values through the loading action of said resistance element.

2,163,743
ANTENNA

Walter Berndt, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application February 17, 1938, Serial No. 190,917
In Germany February 18, 1937
6 Claims. (Cl. 250—33)

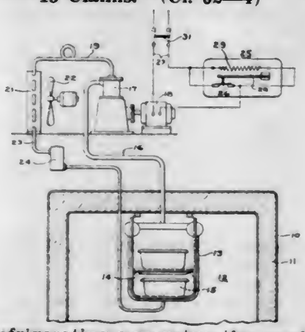


1. A self-radiating antenna mast comprising a plurality of aligned sections each of said sections having highly conductive members along thin edges, a loading inductance connecting each conductive member of one section to the conductive members of the adjacent section characterized in that the adjacent ends of the mast sections are tapered, and an insulator between each of said sections.

2,163,744
REFRIGERATOR CONTROL

Leslie B. M. Buchanan, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 1, 1937, Serial No. 151,324
13 Claims. (Cl. 62—4)



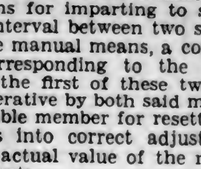
1. In refrigerating apparatus, the combination of means defining a zone to be cooled, an evaporator for cooling the media in said zone, means for circulating refrigerant through said evaporator, and means for intermittently effecting operation of the circulating means for predetermined periods of time and irrespective of temperature conditions within said zone, said means including an element responsive primarily to the temperature of the air exterior of said zone for varying the duration of said periods of time that the circulating means is operated.

2,163,745
ANION MERCURI 1,3-DIHYDROXY 4-ALKYL 6-HALO BENZENE

Walter G. Christiansen, Glen Ridge, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Original application September 13, 1934, Serial No. 743,840. Divided and this application August 30, 1938, Serial No. 227,502
6 Claims. (Cl. 260—433)

1. Compounds of the general formula

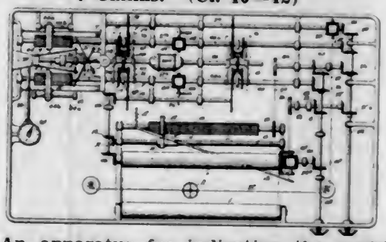


wherein R represents alkyl.

2,163,746
APPARATUS FOR MARKING THE POSITION OF A VEHICLE ON A MAP

Roger Maurice Robert Courtois-Suffit and Henri Eugène Tailleferre, Paris, France

Application April 16, 1935, Serial No. 16,654
In France April 14, 1934
7 Claims. (Cl. 40—42)

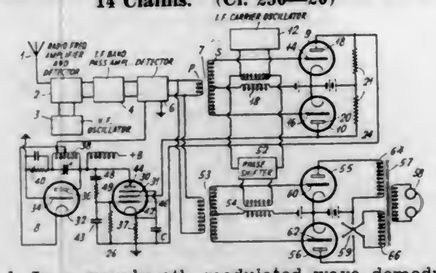


1. An apparatus for indicating the position, with respect to the ground, of a vehicle moving in a fluid itself movable with respect to the ground, which comprises, in combination, a map and an index movable with respect to each other, means for moving said index relatively to said map so as to reproduce the movement of the vehicle with respect to the ground when the movement of said fluid with respect to the ground is not taken into account, means for continuously adding to this movement a movement of adjustable velocity and direction so as to take into account said movement of the fluid relative to the ground, manual means for intermittently imparting to said index a relative displacement bringing it back into correct position with respect to the map as otherwise ascertained, a movable member, means for imparting to said member, during each interval between two successive operations of the manual means, a continuous displacement corresponding to the time having elapsed since the first of these two operations, and means operative by both said manual means and said movable member for resetting said correcting means into correct adjustment determined by the actual value of the ratio of these two displacements.

2,163,747
FREQUENCY MODULATION RECEIVER

Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application October 30, 1937, Serial No. 171,820
14 Claims. (Cl. 250—20)

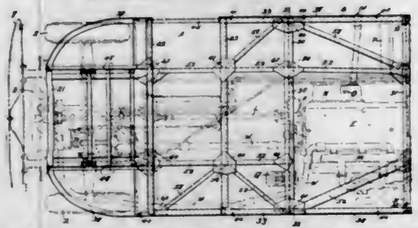


1. In a wavelength modulated wave demodulating system in combination, a detector having electrodes including an output electrode, an alternating current circuit connected with certain of said electrodes, an impedance connected with certain of said electrodes, means for impressing wavelength modulated wave energy on said alternating current circuit, the characteristic of said detector being such that the potentials on said output electrode vary in amplitude nonlinearly as the frequency of the modulations on the wave energy impressed on said alternating current circuit varies, and means for unmodulating said wave energy in accordance with said potentials.

2,163,748
MOTOR VEHICLE

Frederick E. Dayes, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y., a corporation of Delaware

Application February 21, 1935, Serial No. 7,491
6 Claims. (Cl. 296—28)



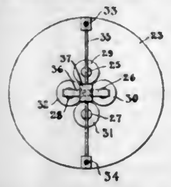
1. In a vehicle, longitudinal girder supporting walls, transoms connected to said girder walls, longitudinals intermediate said walls and connecting said transoms thereby forming a plurality of quadrilaterals, at least one of said longitudinals being eliminated whereby space is provided for a horizontally disposed engine assembly, and diagonal means positioned above said engine space and connecting the adjacent transoms.

2,163,749
RADIAL SCANNING TELEVISION SYSTEM

Lee de Forest, Hollywood, Calif., assignor to American Television Laboratories, Inc., Hollywood, Calif., a corporation of Delaware

Application March 21, 1936, Serial No. 70,061
11 Claims. (Cl. 178—7.6)

1. A radial scanner for a television system, comprising a rotating member, a pair of coils mounted on said member, a plurality of teeth mounted on the periphery of said member, a plurality of coils surrounding said teeth, means for



exciting an alternating current in said coils surrounding said teeth, and means for supplying said current to said first mentioned coils.

2,163,750
HIGH FREQUENCY TRANSMISSION SYSTEM

Albert R. D'heedene, Lynbrook, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 9, 1937, Serial No. 162,973
11 Claims. (Cl. 178—44)

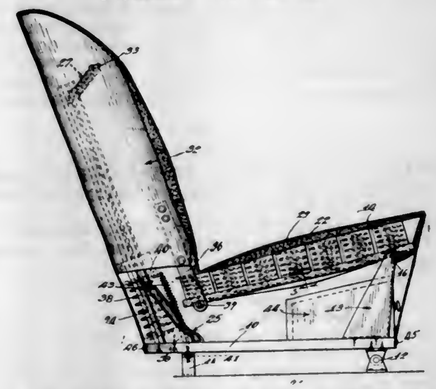


3. In a communication system a cable circuit arranged to connect office apparatus with a transmission line, a condenser electrically in series relation with said apparatus at the office end of said cable and an inductance electrically in shunt with said cable at the line end thereof, said condenser serving with the office apparatus to match the characteristic impedance of said cable at the office end, said inductance serving to annul the reactive component of the cable impedance at the line end.

2,163,751
SEAT CONSTRUCTION

Hyland C. Flint, Royal Oak, Mich., assignor, by direct and mesne assignments, to Patent Sales, Inc., a corporation of Michigan

Application January 15, 1936, Serial No. 59,265
9 Claims. (Cl. 155—53)



1. In a device of the character described, a rigid support fixed relative to a supporting surface, a substantially horizontally extending seat frame pivotally secured adjacent one end thereof to said rigid support, a substantially vertically extending back rest frame pivotally connected to the free end of said seat frame, means for movably supporting said back rest frame and

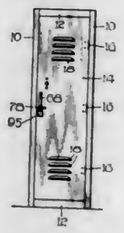
seat frame for movement thereof in a substantially vertical plane, a second substantially vertically extending support fixed relative to said supporting surface, and means engaging said back rest frame and said second fixed support for resisting rearward movement of said back rest and for permitting vertical movement with respect to said fixed support responsive to the movement of said seat frame, the pivotal connection between said seat frame and said rigid support lying in a plane at substantially right angles to the plane of said back rest frame at a point midway of the extremities of movement of the pivotal connection between said back rest frame and said seat frame.

2,163,752

CLOSURE LOCK

Adolf E. Fohn, Aurora, Ill., assignor to Aurora Steel Products Company, Aurora, Ill., a corporation of Illinois

Application May 9, 1935, Serial No. 20,559
17 Claims. (Cl. 70—81)



1. In a lock mechanism for lockers of the type including a relatively fixed wall structure, having an opening; and a pivoted door structure for closing and exposing said opening: a door handle mounted for limited vertical sliding movement near the free edge of said door structure; a release bar housed in the free edge of said door structure and connected to said handle for vertical movement in unison therewith; latch means including spaced movable latch elements on said wall structure, for automatically holding said door closed; and cam lugs on said release bar each positioned to engage one of said movable latch elements, for releasing said latch means.

2,163,753

METHOD OF MAKING HOT MOLDING DIE PLATES AND OTHER CASTINGS AND PRODUCT THEREOF

Harry K. Ihrig, Milwaukee, Wis., assignor to Globe Steel Tubes Co., Milwaukee, Wis., a corporation of Delaware

No Drawing. Application May 25, 1937, Serial No. 144,639
9 Claims. (Cl. 22—203)

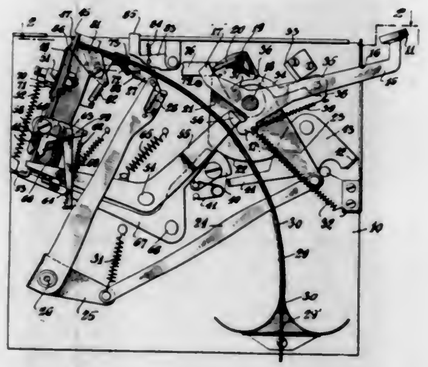
1. That method of making a ferrous metal casting provided with a ferrous metal insert, comprising providing a preformed ferrous metal insert member with an integral silicon-rich cemented case, placing said member in a mold in such position as to have said silicon-rich case surrounded by metal cast therein, and casting ferrous metal into the mold, said silicon-rich case effecting bonding between said insert member and said cast metal, and the casting being substantially free from blowholes in the vicinity of said insert member.

2,163,754

TICKET DISPENSING MACHINE

Frederick McKinley Jones, Minneapolis, Minn., assignor to Nation-Wide Manufacturing Corporation, New York, N. Y., a corporation of New York

Application April 22, 1938, Serial No. 203,709
8 Claims. (Cl. 164—48)



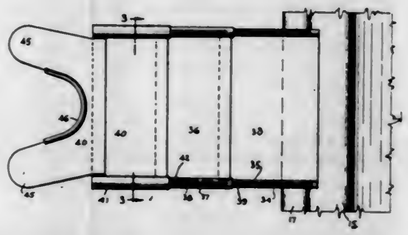
1. A strip vending machine including means for supporting and guiding a strip to be vended, a plurality of members operable to cause various lengths of said strip to be dispensed, a single means engaging said strip to shift the same and coupled to all of said members to have predetermined zones of movement dependent upon actuation of any given member, means for assuring a complete retraction through any of said zones of said shifting means before the latter may be projected, means assuring a complete projection of said shifting means throughout any particular zone before the latter may be retracted means for preventing a movement of said strip while said shifting means is being projected, and means common to said last named means and said shifting means for rendering both of the same inoperative.

2,163,755

SHAMPOO FIXTURE

Jasper Labruzzo, Brooklyn, N. Y.

Application August 29, 1938, Serial No. 227,267
5 Claims. (Cl. 4—159)



1. A shampoo apparatus adapted for attachment to a conventional basin, said apparatus comprising a series of interfitting telescopic trays, a recessed plate to rest on the shoulders carried by the outermost of said trays, a conformable collar on said plate, and means for adjusting the height of said trays.

2,163,756

HIGH FREQUENCY OSCILLATOR

Frederick B. Llewellyn, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 20, 1935, Serial No. 55,314
3 Claims. (Cl. 250—36)



1. An electron discharge tube circuit comprising, an electron emitting means, an anode, means for impressing a positive potential on said anode relatively to said emitting means, an electrode external to said anode, circuit means relating said emitting means, anode and external electrode in such manner as to constitute therewith a braking field type of oscillator, and means for causing an intermittent flow of electrons from said emitting means to said anode comprising additional electrodes and connecting circuits so related to said emitting means as to constitute therewith a self-contained positive grid triode oscillator, said positive potential being such that the oscillatory energy derivable from said braking field oscillator is large as compared with the energy derivable from said self-contained oscillator.

2,163,757

APPARATUS FOR WEATHERPROOFING COMPOSITION BOARD

Robert S. Maclean and Charles W. Pollard, Michigan City, Ind., assignors to Mastic Asphalt Corporation, Michigan City, Ind., a corporation of Indiana

Application November 17, 1934, Serial No. 753,472
18 Claims. (Cl. 91—43)



7. Coating apparatus comprising an interrupted support along which a rigid blank is propelled, means above said support for flowing hot plastic on one face of said blank, spaced transverse members at said support interruption between which said coated blank is fed while on said support to level the plastic on said board, and means for heating at least the member engaging the uncoated face of said blank.

12. Apparatus for weatherproofing sheet building material comprising means for applying hot thermoplastic coating to one face of the material, means for smoothing out said coating, means for applying a layer of grit to said coating, suction means for removing loose excess grit thereon, a conveyor, and a heated guide for said material extending longitudinally of said conveyor and intermediate said coating and suction means for edge contact with the coated material.

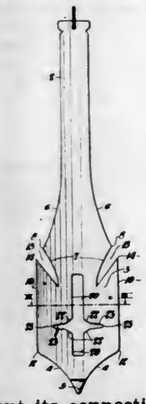
2,163,758

STIRRING DEVICE AND TOOL

Hollis C. Mariner, Pittsburgh, Pa.

Application November 17, 1937, Serial No. 175,046
4 Claims. (Cl. 259—144)

1. A stirring device for liquids and the like comprising a handle portion, and a blade portion connected thereto, the edges of said handle portion and said blade portion being connected by divergent curves, the edges of said blade portion being substantially straight throughout the major portion of their length, the edges of the outer end of said blade portion being formed by inwardly convergent curves which terminate in a substantially pointed extremity, said blade portion being provided with at least one peripheral



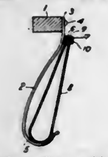
notch adjacent its connection with said handle portion, said peripheral notch being adapted to permit the passage of the medium to be stirred therethrough and formed to provide a closure opener.

2,163,759

ARTICLE CONTAINER

Gertrude L. McCann, San Francisco, Calif.

Application November 27, 1937, Serial No. 176,923
5 Claims. (Cl. 155—190)



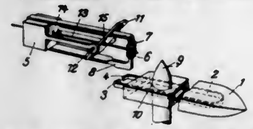
5. An article holder for attachment to chairs and other articles of furniture including a strip of flexible material having attaching means thereon; and an open ended pocket formed on said strip, said strip being preformed to hold the pocket concealed beneath a chair when the pocket is empty, but which will swing into position parallel to and outside of the side of the chair when the pocket has an object placed therein.

2,163,760

THREAD TRANSFER APPARATUS

Albert Moessinger, Zurich, Switzerland, assignor to Tefag Textil-Finanz A. G., Winterthur, Switzerland

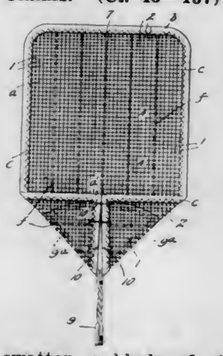
Application July 13, 1937, Serial No. 153,348
In Switzerland August 1, 1936
7 Claims. (Cl. 139—125)



1. In a weft inserting control means for looms, a thread feeder having a main body, a weft clamp connected to said body, said clamp comprising a resilient jaw member which is provided with a clamping end which projects from said body in a direction which is substantially transverse to the direction in which the weft thread is inserted, and a substantially hook-shaped and stiff

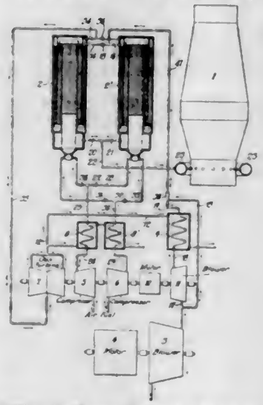
jaw member which is slidingly guided in said body and which has a clamping end which also projects from said body in a direction which is substantially transverse to the direction in which the weft thread is inserted, an operating member movably connected with said body and said jaw members and adapted to force said jaw members towards and from one another, said body and said operating member being remote from said weft thread at all operating conditions.

2,163,761
FLY SWATTER BLADE
John A. Nickelsen, Clinton, Iowa
Application November 29, 1937, Serial No. 177,140
2 Claims. (Cl. 43—137)



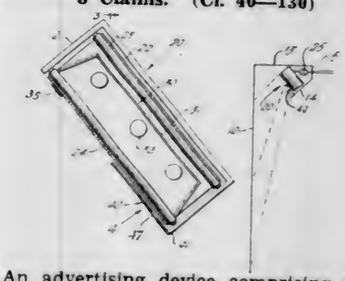
1. In a fly swatter, a blade of oblong form composed of interwoven longitudinal and transverse strands of untempered wire and longitudinal strands of spring wire, the latter arranged in groups, the wires in each group being arranged side by side and close together, and the successive transverse strands extending across each entire group of spring wires on opposite sides thereof, and a binding stitched to the margin of the blade.

2,163,762
HEATING PLANT
Walter Gustav Noack, Baden, and Claude Seippel, Ennetbaden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application December 2, 1937, Serial No. 177,792
In Germany December 2, 1936
14 Claims. (Cl. 263—19)



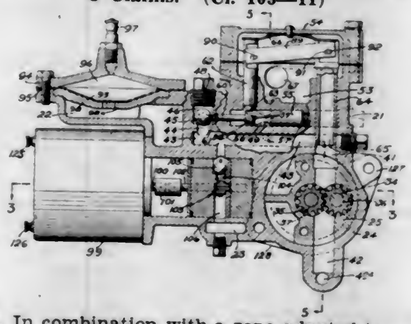
1. The method of producing large quantities of highly heated gas or air comprising the step of alternately burning combustion materials at high pressure in a heat accumulator and driving the gas or air to be heated at high pressure and velocity through said accumulator, and producing power with the products of combustion and using said power for producing the high combustion pressure in said heat accumulator.

2,163,763
ADVERTISING DEVICE
Harry S. Ray, Los Angeles, Calif.
Application May 3, 1938, Serial No. 205,709
8 Claims. (Cl. 40—130)



2. An advertising device comprising in combination a bill-board having a vertical face, a hood or canopy extending outwardly from the upper edge of the face at a downward inclination and enclosing a projection equipment, such projection equipment including a frame having rollers at least one of which with the driving means and an endless belt operated over such rollers, the lower run of the belt considered transversely forming an acute angle with the face of the board, the belt having a series of light pattern devices, illuminating means with a reflector positioned in the frame between the lower and upper runs of the belt whereby as the light pattern devices move longitudinally of the board, complementary light patterns are formed on the board.

2,163,764
FLUID PRESSURE AMPLIFYING DEVICE
Edward A. Rockwell, Chicago, Ill., assignor, by mesne assignments, to General Auto Parts Corporation, a corporation of Delaware
Application May 18, 1934, Serial No. 726,426
3 Claims. (Cl. 103—11)



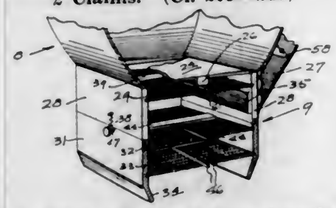
1. In combination with a zone adapted to contain a fluid under pressure, a pump normally operable to deliver fluid to said zone, a second pump adapted to deliver fluid to said zone, means to actuate said second pump, means operable by the operation of said first pump to disable said actuating means, and a device controllable by the pressure in said zone to load and unload said first pump when said first pump is in operation and to control said actuating means when said first pump is stopped.

2,163,765
APPARATUS FOR GRINDING MATERIAL IN A MORE OR LESS VISCOUS CONDITION
Asbjorn Sonsthagen, London, England
Application June 27, 1932, Serial No. 619,539
In Great Britain July 11, 1931
6 Claims. (Cl. 83—22)



1. In a grinding mill for viscous material a moving body, a grinding member having a nip thereon and co-operating therewith, an extension upon said grinding member, a surface upon said extension inclined with respect to the surface of the moving body, said surface upon said extension together with the surface of the moving body forming a compression chamber of wedge-like cross-sectional outline, the apex of which enters the nip for the material, means for varying the height of the extension whereby the material enters the nip under considerable pressure.

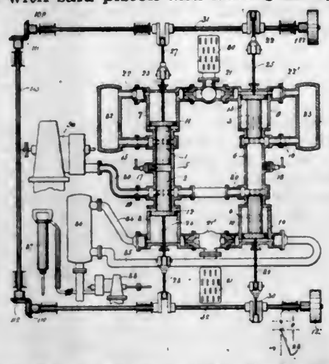
2,163,766
SIFTER AND MIXER DEVICE
Lillian J. Spencer, San Rafael, Calif.
Application September 7, 1935, Serial No. 39,519
2 Claims. (Cl. 209—244)



2. In a device of the character described, comprising a frame open at its top and bottom, a plurality of sifter elements arranged in the frame in spaced series one above the other, an agitator for each sifter element, selective means for manipulating either one or all of the said agitators, the said selective means comprising a rod member extending from the uppermost agitator and having a button secured on its outer end, rod members extending from the other of said agitators and the outer ends of the said rods of the other agitators being secured to a handle member, and the rod of the uppermost agitator extending through an aperture in the upper portion of the said handle member, and means to conduct substances to be sifted onto the uppermost sifter element.

2,163,767
FLOATING PISTON ENGINE PLANT
Hans Steiner, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Original application March 8, 1935, Serial No. 10,081. Divided and this application June 9, 1937, Serial No. 147,316. In Switzerland March 13, 1934
6 Claims. (Cl. 230—56)

1. In a united reciprocating internal combustion and compressor engine, a combustion cylinder having at one end a compressor cylinder directly connected thereto, a floating piston comprising a power piston situated in said combustion cylinder and a compressor piston situated in said compressor cylinder, crank means connected with said piston and having an operating

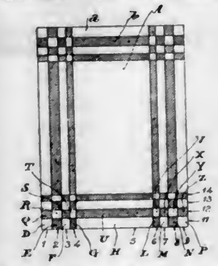


diameter which is greater than the longest possible stroke of said piston, said crank means oscillating about its outer dead center position whereby the position of said piston at one end of its stroke is maintained also when the force acting on said piston and thereby the position at the other end of its stroke are changed.

2,163,768
CHEMICAL PROCESS
Herbert G. Tanner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 24, 1938, Serial No. 231,503
14 Claims. (Cl. 148—6)

1. A process of treating a massive body having a metallic surface containing as an essential component a structurally useful base metal melting above 300° C. and forming a nitrate in which the metal is divalent, which comprises contacting said metallic surface with a porphyrazinogenic substance in fluid form at a temperature between 200° and 550° C.

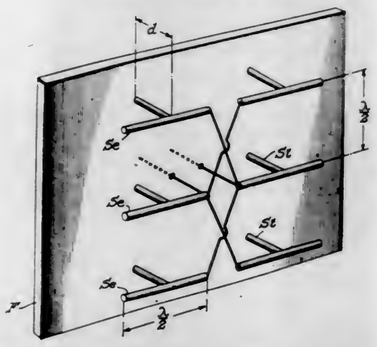
2,163,769
WOVEN FABRIC
Gustave Joseph Jean Terrasse, Lyon, France, assignor to Société Anonyme Tissages de Soieries Reunis, Lyon, Rhone, France
Application May 25, 1937, Serial No. 144,691
In France May 25, 1936
2 Claims. (Cl. 139—383)



1. A reversible fabric having rectangular pattern effects consisting of a single warp of uniform

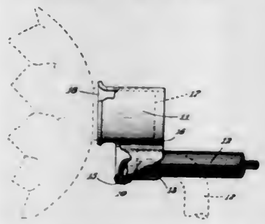
characteristics and two wefts of different optical characteristics, said fabric being woven in the patterned areas with successive weft picks of different characteristics and having inversions of the pattern along lines extending transversely of the warp of the fabric at which lines of inversion two successive weft picks of the same characteristics are included to form a straight line of junction between the adjoining patterned areas.

2,163,770
ANTENNA
Rudolf von Radinger, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application February 26, 1936, Serial No. 65,747
In Germany March 5, 1935
6 Claims. (Cl. 250—11)



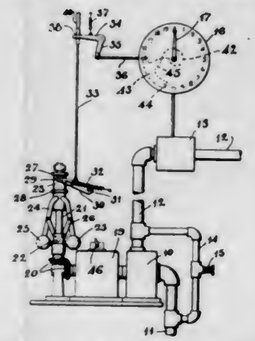
1. A directive antenna system wherein the ohmic losses are substantially small as compared with the radiation resistance having in combination therewith a reflector located in the rear of the antenna and spaced therefrom a distance less than and substantially of a different order than one-quarter of the length of the communication wave.

2,163,771
ELECTRICAL CONNECTOR
Milton Alden, Brockton, Mass.
Application June 11, 1937, Serial No. 147,640
2 Claims. (Cl. 173—269)



1. In combination, a connector of the socket type and an insulated terminal wire, said connector being adapted to receive axially therein a plug such as a radio tube tip and comprising a joined pair of jointly flexible tubular members positioned substantially mutually parallel, the first tubular member having a longitudinal slit extending for the entire length of one wall thereof and also having a second longitudinal slit extending for the entire length of the opposite wall thereof, the second tubular member having a longitudinal slit located at the point of juncture of the two tubular members and coincidental with the second slit of the first tubular member, whereby the insertion of a plug into said first tubular member will cause expansive flexure of both tubular members, said second tubular member being adapted to flexibly grip therein the insulation of said wire so as to locate said wire substantially parallel to the first tubular member, the insulation of said wire being removed from the portion thereof nearest to the free end of the wire up to a point located well within said second tubular member and the end of said wire being bent over the outer wall of the second tubular member and fastened thereto by molten metal at a point remote from the insulation of the wire and remote from said coincidental slit, whereby the joint flexibility of said tubular members and the properties of said insulation are both substantially unaffected by the fastening of said wire to said outer wall of said second tubular member.

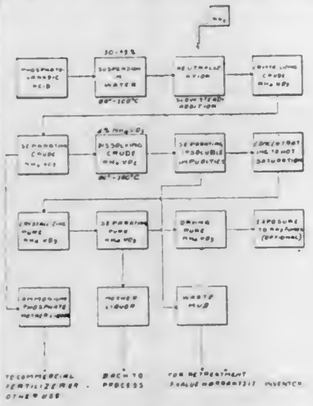
2,163,772
LIQUID DISPENSING APPARATUS
Alexander R. Bond, Plainfield, N. J., assignor to Keystone Controls, Inc., New York, N. Y., a corporation of New York
Application April 28, 1937, Serial No. 139,358
18 Claims. (Cl. 221—95)



1. In an apparatus of the character described, a conduit, power driven means for supplying the conduit with fluid, a meter connected to the conduit and having an indicator for registering the flow of said fluid through the conduit, means for starting and stopping the power means, a centrifugal governor driven by the power means, and means controlled by the governor for resetting the indicator to zero position when the speed of the power means exceeds predetermined amount.

2,163,773
PROCESS OF REFINING PHOSPHATO-VANADIC ACIDS
Frederic C. Bowman, Los Angeles, Calif., assignor to A. R. Maas Chemical Co., Los Angeles, Calif., a corporation of California
Application January 11, 1937, Serial No. 119,965
5 Claims. (Cl. 23—24)

3. In a method of refining crystals of crude phosphatovanadic acid precipitated from crude phosphoric acid, the steps of mixing the crystals with hot water, then adding ammonia to the mixture at such rate that the water does not become substantially alkaline at any time until the reaction nears completion, then crystallizing the ammonium vanadate formed and separating it from the solution, then redissolving said ammonium vanadate and filtering and recrystallizing to obtain a pure ammonium vanadate.



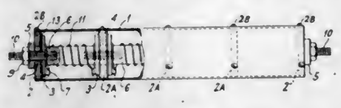
2,163,774
FASTENING FOR ATTACHÉ AND SUIT CASES AND THE LIKE
Charles William Cheney, Soho, Birmingham, England
Application February 24, 1937, Serial No. 127,422
In Great Britain February 26, 1936
4 Claims. (Cl. 70—67)



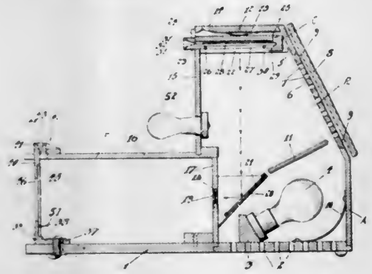
1. A fastening of the kind described, comprising a rigid hasp, a lug carried by the hasp, a lock casing having an open side to receive the lug, a slidable member guided in said casing and being disposed with one edge thereof adjacent said open side to be displaced by the lug entering the casing, a pivoted catch carried on said slidable member adjacent the open side of said casing to be swung into engagement with said lug when said slidable member is inwardly displaced, means for holding said catch out of engagement with said lug while said slidable member is in its outermost position, hand-operated means projecting to the exterior of said casing for moving said slidable member from its innermost to its outermost position, and a spring within said casing to normally hold said slidable member in its innermost position when said catch engages said lug.

2,163,775
RADIO FREQUENCY FILTER
James W. Conklin, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 19, 1937, Serial No. 137,693
18 Claims. (Cl. 178—44)

1. A radio frequency filter comprising a continuous metallic shield having metallic end members, said shield being connected to ground, an inductance coil within said shield, a metallic plate located at each end of said coil, said metallic plate serving as one electrode of a condenser for said filter, the other electrode of said condenser being provided by at least one of said metallic end members, and a solid dielectric arranged to increase the capacity of the condenser, said dielectric being interposed between the metallic plates and the metallic end members.



2,163,776
COPYING CAMERA
Ira B. Current and William Henrikson, Binghamton, N. Y., assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
Application August 26, 1936, Serial No. 97,981
6 Claims. (Cl. 88—24)



1. A copying camera comprising a casing, illuminating and projecting means therein, a holder for material to be copied comprising a cradle slidably mounted in said casing, and stop means on said cradle cooperating with said casing to limit the outward movement of the cradle, said cradle having a portion pivoted thereto, said pivoted portion being held in closed position by the top of the casing when the cradle is disposed therein and being operable to open position only when said cradle is in its outermost position, and resilient means on the underside of the top of said casing for engaging the pivoted portion of said cradle in closed position.

2,163,777
TRAVELER'S PROTECTION ORDER
Leopold Deutsch, Girard, Ohio
Application April 15, 1938, Serial No. 202,306
1 Claim. (Cl. 281—31)

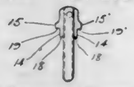


A book of the class described comprising a cover section and a back section, the cover section embodying spaced upper and lower members secured together at their outer edges, the upper member having substantially large spaced cut-out portions, defining a frame for the reception of cards held by the cover, the portion of the cover between the cut-out portions having a transversely disposed elongated opening communicating with the cut-out portions, whereby said cards may be inserted in the cut-out portions through said elongated opening.

2,163,778
PROCESSED CHEESE AND METHOD OF PREPARING THE SAME
Fritz Draisbach, Ludwigshafen-on-the-Rhine, Germany
No Drawing. Application June 2, 1937, Serial No. 146,122. In Germany June 4, 1936
8 Claims. (Cl. 99—162)

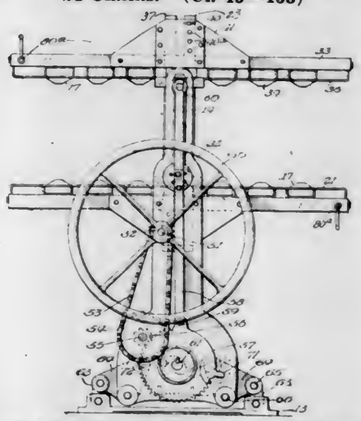
1. A method of preparing processed cheese which consists in homogenizing cheese at a pasteurizing temperature with an homogenizing salt consisting of a soluble complex sodium-alkaline-earth-phosphate.

2,163,779
ELECTRICAL TERMINAL PRONG
Arthur M. Draving, Philadelphia, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa.
Application March 24, 1936, Serial No. 70,605
3 Claims. (Cl. 173—361)



1. An electrical terminal prong for plug-in devices, constituted by a folded, substantially tubular, member having seamed sidewalls, the said member being drawn and formed from a strip of sheet metal, one end thereof being generally rounded, the other end being open, the member being additionally provided with integral sidewall extensions cut back to form two shoulders, an outer shoulder and an inner shoulder, the inner shoulder being adapted to be bent over for anchorage purposes, said shoulders being disposed intermediate the extreme ends of the member.

2,163,780
MATTRESS TUFTING MACHINE
Joseph W. Droll, Chicago, and Alex H. Olson, Evanston, Ill., assignors to Droll Patents Corporation, Chicago, Ill., a corporation of Delaware
Application April 20, 1935, Serial No. 17,428
24 Claims. (Cl. 45—138)



22. In a mattress tufting machine, the combination of a support, upper and lower frames each carrying compressor members, and means for connecting the frames to the support for vertical rotation comprising coaxial trunnions and adjustable connections between the trunnions and each of the frames whereby both of the frames can be adjusted to and from the axis of the trunnions so the upper and lower compressor members will be equidistantly spaced from said axis while the frames are in compressing position for mattresses of different thicknesses.

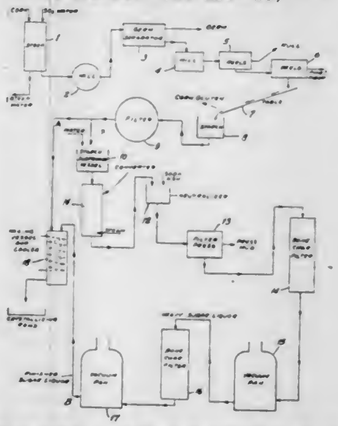
2,163,781
PHOTOGRAPHIC DEVELOPING PROCESS
John Eggert, Leipzig, and Bruno Wendt, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application June 1, 1936, Serial No. 82,930. In Germany June 7, 1935
5 Claims. (Cl. 95—88)

1. A process of developing an exposed silver halide emulsion in a solution of an organic compound having in its molecule a divalent radical corresponding to both the following tautomeric formulae

$$-\overset{}{C}(=O)-\overset{}{C}H(NR_2)- \quad \text{and} \quad -\overset{}{C}(OH)=\overset{}{C}(NR_2)-$$

wherein R stands for a radical being a member of the group consisting of hydrogen, alkyl, aryl and acyl radicles.

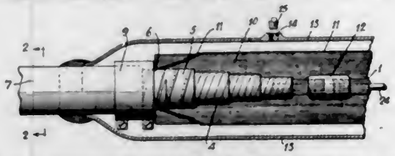
2,163,782
COMPOSITION OF MATTER DERIVED FROM STARCH AND THE PROCESS OF MAKING THE SAME
Walter R. Fetzer, Clayton, Mo., assignor to Union Starch and Refining Company, Columbus, Ind., a corporation of Indiana
Application June 29, 1936, Serial No. 87,950
10 Claims. (Cl. 127—29)



1. The process of making a composition of matter which consists in mixing with a crystallizable sugar liquor from a process of hydrolyzing starch to sugar, before the liquor has been cooled and crystallized, a quantity of water-containing starch bearing material, cooling and seeding the composite mixture to cause crystallization into a solid stable mass by taking up of the water from the starch in the crystallization of the sugar liquor.

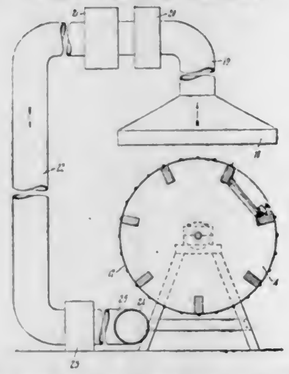
2,163,783
CABLE INSTALLATION
Henry W. Fisher, Perth Amboy, N. J., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application January 4, 1929, Serial No. 330,239
2 Claims. (Cl. 174—15)

1. The improvement in the art of installing oil-filled lengths of cable having an oil duct within the conductor and a plurality of oil ducts between the cable insulation and sheath, which consists in connecting one end of a length of cable to a supply of oil under pressure, opening the other end and removing a portion of the lead



sheath therefrom, applying a closure to the oil ducts located between the cable insulation and sheath, progressively removing the insulation and applying a joint or terminal structure while maintaining a constant flow of oil from the open end of the cable until completion of said joint or terminal structure.

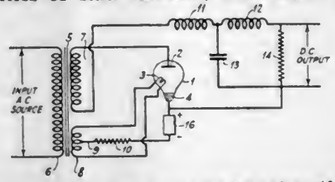
2,163,784
METHOD OF TREATING DIPPED RUBBER ARTICLES
John R. Gammeter, Akron, Ohio
Application January 18, 1937, Serial No. 121,108
5 Claims. (Cl. 18—58)



1. The method of treating rubber articles which have been formed by dipping shaped forms into an aqueous dispersion of rubber which comprises partly drying and partly vulcanizing said articles while they are on said forms, effecting further drying of the articles by contact thereof with talc, and then completing the drying and vulcanization of the articles and effecting the removal of talc therefrom by exposing the articles to a current of heated air.

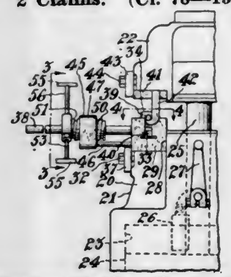
2,163,785
MERCURY RECTIFIER
Clarence W. Hansell, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 18, 1936, Serial No. 75,069
4 Claims. (Cl. 175—363)

1. A rectifier circuit comprising an input source, a transformer connected to said input, said transformer having a primary and a secondary and a cathode heating winding having a central tap, a rectifier having an anode, a heated cathode connected to said heating winding, and a second cathode comprising a mercury pool, one side of said secondary being connected to the anode of said rectifier, a direct current source, a resistance connected from said central tap to said direct current source and said second cathode of said rectifier tube whereby the current flow from said heated cathode to said anode is maintained within the emission capabilities of said cathode, the output of said



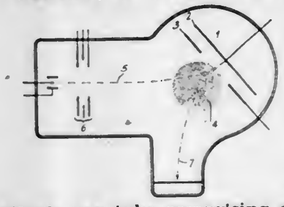
rectifier circuit being connected to the other side of the transformer secondary winding and to the second cathode of the rectifier tube.

2,163,786
FORGING DEVICE
Dudley W. Hart and Edward F. Wickens, Phillipsburg, N. J., assignors to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application February 11, 1938, Serial No. 189,958
2 Claims. (Cl. 78—13)



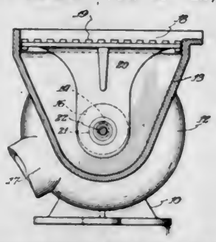
1. In a forging device, the combination of a base and a head reciprocable with respect to the base, a stationary bottom die in the base, a top die to receive the blows of the head and being slidable in the base, and lifters affixed to the head to move into engagement with the top die at an intermediate point in each alternate stroke of the head for lifting the top die from the bottom die.

2,163,787
ELECTRON DEVICE
Walter Henneberg and Alfred Recknagel, Berlin, Germany, assignors to Allgemeine Elektricitats Gesellschaft, Berlin, Germany, a corporation of Germany
Application April 26, 1937, Serial No. 139,029
In Germany April 25, 1936
6 Claims. (Cl. 250—162)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



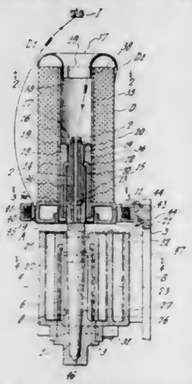
1. A cathode ray tube comprising an electron emitting cathode, a control electrode surrounding the cathode, an electron lens in register with the cathode, said lens having chromatic aberration, an electron mirror inclined to the axis of the electron lens, said mirror having chromatic aberration complementary to the aberration of said lens and an impact surface having its axis at right angles to the axis of the electron lens.

2,163,788
ERASER CLEANER
Fred L. Hennefer, Salt Lake City, Utah
Application July 22, 1936, Serial No. 91,843
1 Claim. (Cl. 15—12)



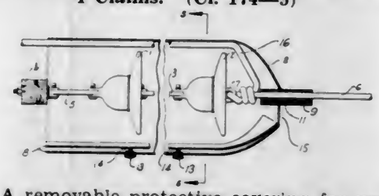
-A cleaner comprising a casing having a motor chamber in one end thereof; a fan chamber adjacent the inner end of said motor chamber and having an air discharge spout arranged for the attachment of a dust bag; a cleaning chamber adjacent said fan chamber in open communication therewith, the top of said cleaning chamber having walls forming a rectangular opening one wall of which is depressed to form and a laterally extending supporting lip to constitute a rest for an object to be cleaned; a foraminated rectangular cleaning element arranged in said cleaning chamber below said rest and reciprocating therein to strike said object a blow to release dust therefrom; a motor shaft extending from the motor chamber through said fan chamber and said cleaning chamber; an exhaust fan on said motor shaft in said fan chamber and arranged to exhaust air from said cleaning chamber through said dust bag spout; an eccentric on said motor shaft in said cleaning chamber; and an operative connection between said eccentric and said cleaning element.

2,163,789
THREAD TWISTING APPARATUS
Frank Honig, Edgewood, R. I.
Original application December 28, 1934, Serial No. 759,463, now Patent No. 2,146,578, dated February 7, 1939. Divided and this application May 21, 1938, Serial No. 209,349
11 Claims. (Cl. 57—101)



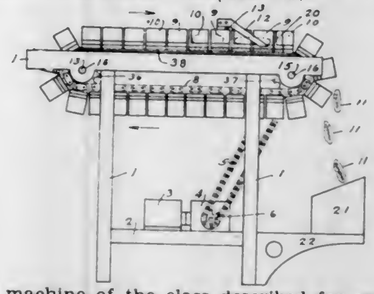
1. A device of the class described comprising in combination, an endless fluid conduit, a filament spindle, an impeller for said spindle disposed in said conduit, driving means for circulating gaseous fluid in said conduit, and means to regulate the speed of flow of fluid in said conduit.

2,163,790
PROTECTIVE COVERING FOR DEAD ENDS
Orval C. Kerr, Long Beach, Calif.
Application June 14, 1937, Serial No. 148,054
4 Claims. (Cl. 174—5)



1. A removable protective covering for use on dead-ends of the type consisting of one or more insulators interposed between a live conductor wire and a supporting pole or cross-arm, said covering comprising, in combination: an elongated, flexible rubber sleeve having a passageway extending lengthwise therethrough, said passageway being dimensioned to encircle said live conductor wire, said sleeve being split lengthwise along one side so as to enable the sleeve to be applied to said conductor wire, a sheet of flexible rubber of extended area secured to said sleeve and forming a skirt-like appendage thereto, said rubber sheet being of such size and configuration and so oriented with respect to said sleeve that it can be wrapped about said dead-end in such manner as to substantially completely envelope said dead-end.

2,163,791
PICKLE SLICING MACHINE
Charles G. Lang, Baltimore, Md., assignor to C. C. Lang & Son, Inc., Baltimore, Md.
Application July 18, 1938, Serial No. 219,852
1 Claim. (Cl. 146—72)



A machine of the class described for equably slicing cucumber pickles of regular and irregular shapes indiscriminately deposited therein, comprising in combination, a frame; an endless conveyor with links and yokes mounted on the frame; a plurality of spaced buckets mounted on the conveyor and connected with the links and yokes, each bucket being in two sections spaced apart from each other, said sections having smooth downwardly wedgelike converging walls spaced apart at the proximate apex, and adapted to align and gravitationally grip the pickles longitudinally in the direction of travel of the conveyor, the walls being extended at the proximate apex in parallel relation to form a guiding slot therebetween, each last section of a bucket being provided with inwardly extending flange walls for affording pressure backs for the pickle therein, to push same along with the conveyor; knife means on the frame and disposed stationarily and angularly between the converging walls and in the guiding slot, to cut the pickles in the buckets longitudinally and through the middle axis thereof as the buckets are carried by on the conveyor, said sections being arranged to bend hingedly on their links as the conveyor varies its directional travel and thereby stress the pieces of cut pickles to force their release from the converging walls for discharge therefrom.

2,163,792
ANTISEEPAGE BREAST DEVICE
Hazel R. Littlehales, Seattle, Wash.
Application August 21, 1937, Serial No. 160,280
1 Claim. (Cl. 128—280)

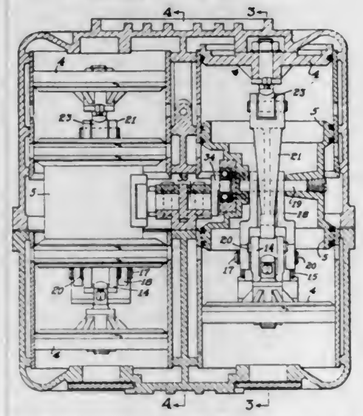


An anti-seepage breast device comprising a rigid dish-shaped element having a protuberance centrally located on the concave side thereof, the circumferential edges of the element being adapted to contact the areola and the protuberance being adapted to contact the nipple of the breast of the wearer.

2,163,793
PRODUCTION OF CHLORINE DIOXIDE
John Ogden Logan, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
Application June 8, 1937, Serial No. 146,984
4 Claims. (Cl. 204—9)

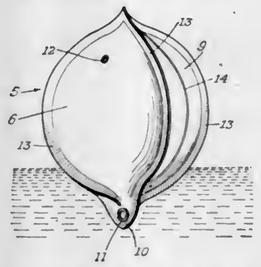
1. A process for producing chlorine dioxide free of chlorine which comprises electrolyzing an aqueous solution having dissolved therein a chlorite of the class consisting of the chlorites of the alkali metals and the alkaline earth metals, and a molar proportion of a chloride of the class consisting of the chlorides of the alkali metals and the alkaline earth metals in excess of the molar proportion of the chlorite present.

2,163,794
PISTON METER
Lyon McCandless, Beaver Falls, Pa., assignor of forty-five per cent to Clifford H. Beegle and ten per cent to John A. Elliott, Beaver County, Pa.
Application September 9, 1937, Serial No. 163,106
5 Claims. (Cl. 73—245)



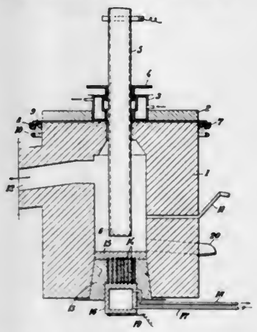
1. In a fluid meter, a measuring piston actuated by fluid flowing through the meter, a piston valve in coaxial alignment with said measuring piston, and means connecting said piston valve and measuring piston adapted in response to movement of the latter to actuate the piston valve to subject it to reciprocatory movement coordinately with but less than the movement of the measuring piston.

2,163,795
FLOAT
Charles N. Merralls, Los Angeles, Calif.
Application December 14, 1936, Serial No. 115,670
10 Claims. (Cl. 9—8)



1. A buoy comprising an inflatable container, said container consisting of a pair of oppositely disposed expansible and longitudinally extended rubber walls and two opposed walls composed of laminations of rubber and fabric, the edges of the inside surfaces of each of said four walls being sealed with the edges of the inside surfaces of its adjacent walls forming laterally protruding ribs on the outside of said container.

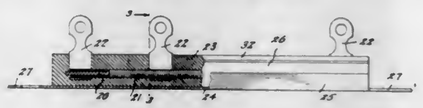
2,163,796
PROCESS FOR THE RECOVERY OF MAGNESIUM
Oskar Meyer, Bitterfeld, Germany, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
Application November 28, 1936, Serial No. 113,255
In Germany December 11, 1935
9 Claims. (Cl. 75—10)



1. A process for the recovery of magnesium by thermal reduction, comprising progressively introducing a column of a reaction mixture confined in a current-conducting material into a reaction zone, said reaction mixture being exclusive of substances leading to the formation of carbon monoxide or oxygen-containing gases and including a magnesiferous raw material and an agent capable of reducing magnesium oxide while

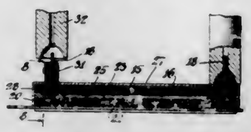
forming non-gaseous oxidation products, establishing an electric arc impinging upon the end of said column at said reaction zone, said current-conducting material serving as a conductor of electric current to the reaction zone, and withdrawing magnesium vapor from said reaction zone.

2,163,797
ELECTRICAL RESISTOR
John J. Mucher, Brooklyn, N. Y.
Application January 2, 1936, Serial No. 57,209
2 Claims. (Cl. 201—64)



1. As an article of manufacture, a resistor including a plurality of independent resistance elements, connecting members having their inner ends coupled to each of said elements, their bodies extending outwardly therefrom, a jacket of molded thermo setting di-electric material enclosing and intimately engaging all of said elements and the inner ends of said members, and a continuous uninterrupted reinforcing rib extending from substantially one end of said jacket to the other of the same and common to all of said elements, said members extending through said rib.

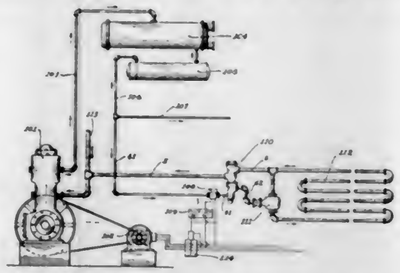
2,163,798
METHOD OF MOLDING
John J. Mucher, Brooklyn, N. Y.
Application April 23, 1936, Serial No. 76,371
7 Claims. (Cl. 201—67)



1. A method of producing an electrical resistor of the type permanently embedded in an insulating body and encased in a metal shell which embraces the following steps in its production, winding electrical resistance wire of predetermined size and at a predetermined pitch on a dielectric core, securing terminal members thereto, enclosing said core and winding in a wrapping of fibrous material impregnated with a thermo-setting resin so as to permit the projection of terminal members therefrom, constricting a metal shell about such article by the application of external force, so that said shell will continue to maintain the parts under pressure after the external constricting force has been removed, and thereafter subjecting the article to sufficient heat for a sufficient time to harden the thermo-setting insulation so as to produce a unitary electrical resistor.

2,163,799
REFRIGERATION SYSTEM
Harry W. Nevin, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application September 8, 1936, Serial No. 99,775
10 Claims. (Cl. 62—8)

1. In a refrigeration system including a high pressure liquid conduit and a low pressure suction conduit, a valve comprising a control section athwart the liquid conduit and a stop section



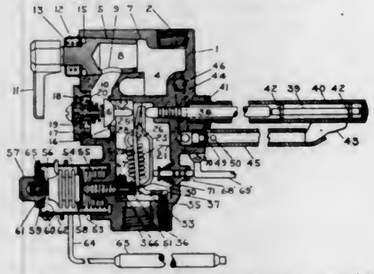
athwart the suction conduit, the stop section operable by pressure in the control section.

2,163,800
VALVE
Harry W. Nevin, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Original application September 8, 1936, Serial No. 99,775. Divided and this application February 12, 1937, Serial No. 125,497
11 Claims. (Cl. 137—153)



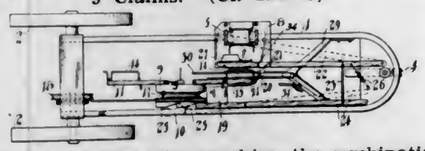
1. A stop valve comprising a housing, a high pressure passage in said housing, a low pressure passage in said housing, a valve normally seated to close said low pressure passage, a piston actuated means for unseating said low pressure valve, said piston actuated means provided with a piston operable in a chamber interposed between said high pressure passage and said low pressure passage, said piston chamber communicating with said high pressure passage through a communication orifice, an adjustable fixed needle valve in said communication orifice to control flow volume from said high pressure passage through said communication orifice for timing actuation of said piston by fluid pressure provided by fluid passing from said high pressure passage through said communication orifice to said piston chamber, and a by-pass between said high pressure passage and said communication orifice having a pressure actuated check valve interposed therein operable to accelerate closing of said low pressure valve upon release of fluid pressure in said high pressure section, and a check valve in said high pressure passage to prevent counterflow of gas therethrough.

2,163,801
THERMOSTATIC CONTROL
Robert E. Newell, Youngwood, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application December 7, 1935, Serial No. 53,359
Renewed May 6, 1939
10 Claims. (Cl. 236—48)



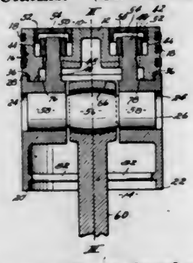
1. A thermostatic control device comprising a valve, a lever mechanism for operating said valve including a snap acting lever engageable therewith, a thermostat arranged to actuate said mechanism to snap said lever and effect snap opening and closing of said valve, and a second thermostat positioned to actuate said mechanism to snap said lever and effect snap closing of said valve independently of said first thermostat.

2,163,802
PLANT-SETTING MACHINE
Robert W. Oakley, Toronto, Ontario, Canada
Application December 23, 1936, Serial No. 117,364
9 Claims. (Cl. 111—3)



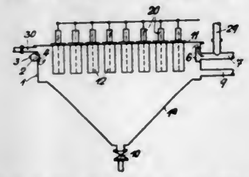
2. In a plant setting machine, the combination of a wheeled frame; a planting wheel rotatably mounted on said frame; a plant receiving platform on said frame; an endless conveyor for feeding plants to said platform; a lever projecting across said platform and rockable in a horizontal plane for moving plants to the planting wheel; means for actuating said lever from the planting wheel; and means carried by said lever for actuating said endless conveyor.

2,163,803
PISTON AND CONNECTING ROD CONSTRUCTION
John Pearl Orris, Kansas City, Mo.
Application June 15, 1936, Serial No. 85,337
3 Claims. (Cl. 309—15)



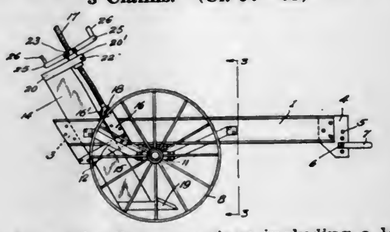
1. A piston comprising a head member having piston ring grooves in the outer wall thereof and having holes formed through the top wall; a two-piece skirt having transverse bearings adapted to receive a wrist pin; a stud carried by each of said skirt members extending through the holes formed through the top wall of said head member and adapted to have transverse adjustment therein; adjustable members associated with said studs whereby said head and skirt members are secured together; and segmental, spaced-apart, substantially concentric walls carried by said head and skirt members; and shims positioned between adjacent walls whereby the head and skirt members are positioned in operative position, with openings therebetween to permit free flow of oil from the inside to the outside of said piston.

2,163,804
MEANS FOR SEPARATING THE CONSTITUENTS OF CRUDE OIL EMULSIONS
Hermann Passler, Vienna, Austria, assignor of one-half to Albert Brunnbauer, Junior, Vienna, Austria
Application September 2, 1936, Serial No. 99,061
In Austria September 5, 1935
5 Claims. (Cl. 204—24)



1. An apparatus for separating water and other foreign matter from crude oil emulsions, comprising an elongated tank having end walls, side walls and a bottom, a plurality of electrodes each including a thin-walled dielectric vessel having a conductive lining and projecting downwardly into said tank to a level above said bottom, said electrodes being arranged in rows extending longitudinally of said tank, adjacent rows of electrodes being connected to different potentials to set up an electric field between them, an inlet for the crude oil emulsion adjacent the top edge of one of said end walls, an overflow outlet for purified oil adjacent the top edge of the opposite end wall, and an outlet for the separated water in said last mentioned end wall at a level immediately below said electric field.

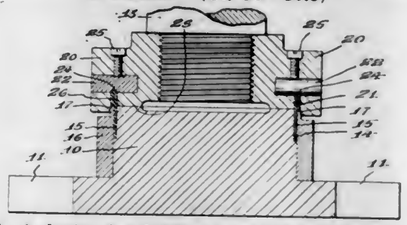
2,163,805
SUBSOILER
Lewis E. Pendell, Almira, Wash.
Application December 3, 1937, Serial No. 177,973
3 Claims. (Cl. 97—78)



2. In a subsoiler, a carriage including a longitudinally extending beam formed with a vertical passage, a standard extending vertically through said passage and carrying a shovel at its lower end, bearing ears extending upwardly from said beam at opposite sides of the passage, a threaded stem pivoted at its lower end between said ears and extending upwardly in front of the standard, arms extending forwardly from opposite

sides of the upper end of the standard and disposed at opposite sides of said stem, a sleeve threaded upon said stem and disposed between said arms and being formed with upper and lower collars for engaging upper and lower edge faces of the arms and causing the arms and standard to be shifted vertically as a unit with the sleeve during adjustment of the sleeve along the stem, a pin passing through said arms in front of said sleeve to maintain the sleeve in place between the arms, and turning arms carried by and extending from opposite side portions of the upper collar and provided with upstanding handles at their ends.

2,163,806
APPARATUS FOR FOLDING OVER ENDS OF PAPER TUBES
Lee D. Pierce, Fulton, N. Y.
Application April 6, 1937, Serial No. 135,299
5 Claims. (Cl. 93—36.5)



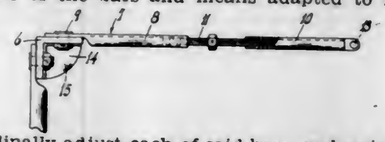
1. A device for folding over the end of a paper cylinder, the combination of a base formed to support said cylinder with one end thereof extending outwardly from the base, of a rotary spinning head movable axially toward and from the base and being operable to turn over the extending end of the cylinder, a sleeve encircling the base and a portion of said cylinder with the end of the sleeve acting as a stop for the over-turned portion of the cylinder, said base and head having coacting surfaces located within the spinning area to limit axial movement of the head toward the base, the end of said sleeve and said surfaces being arranged relatively, whereby the spinning head presses the over-turned portion of the cylinder against the end of the sleeve and effects an ironing of said over-turned portion.

2,163,807
BASIC REACTION PRODUCTS
Henry Alfred Piggott and Francis Sydney Statham, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application May 5, 1937, Serial No. 140,982. In Great Britain May 7, 1936
11 Claims. (Cl. 260—404)

1. A process for the manufacture of new basic reaction products which comprises heating a compound selected from the group consisting of aliphatic carboxylic acids containing at least six carbon atoms and the primary amides of said acids with at least 3 molecular proportions of ethylene imine.

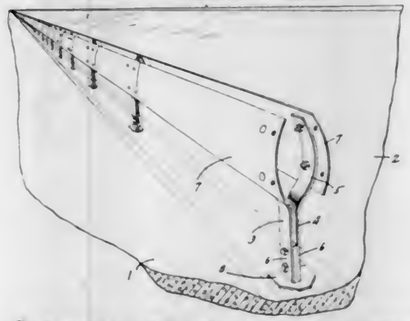
2,163,808
METHOD OF SETTING TOWER FOOTINGS
Myron A. Pithoud, Long Beach, Calif.
Application April 16, 1937, Serial No. 137,303
2 Claims. (Cl. 189—21)

1. An adjusting jig for setting tower footings, comprising a coupling member adapted to be fixedly mounted in a tower footing, a pair of bars extending angularly from the coupling member, means securing each of the bars to the coupling member, means fixedly securing the outer end of each of the bars and means adapted to longi-



tudinally adjust each of said bars, and a sighting plate removably mounted on the coupling member, said plate having an indicating mark thereon adapted to be aligned with an alidade mounted within the confines of the tower footing.

2,163,809
CENTER ROAD-DIVIDING GUARD
John B. Rauen, Los Angeles, Calif.
Application March 21, 1938, Serial No. 197,071
5 Claims. (Cl. 256—13.1)



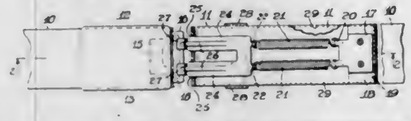
1. In a center road dividing guard for dividing a road into directional lanes, the combination of a pair of spring steel supporting members having curved upper ends and straight lower legs, means whereby the straight lower legs are secured together, means for anchoring the supporting members in the roadway and guard rails of curved formation secured to said curved ends whereby each guard rail may act independently except under impact of sufficient force to force the guard rail impacted, against the other guard rail when the added resistance of the second guard rail and spring support therefor acts to assist the first rail in taking the impact.

2,163,810
COUPLING
Frank J. Raybould, Erie, Pa., assignor to Raybould Coupling Company, Meadville, Pa., a corporation of Pennsylvania
Application November 25, 1936, Serial No. 112,728
1 Claim. (Cl. 285—196)



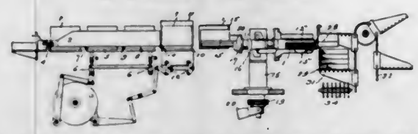
A coupling for joining together pipe members in substantially axial alinement comprising a compression ring extending circumferentially around each pipe member adjacent an end thereof, a middle ring having an enlarged portion on each end thereof extending substantially completely over the adjacent compression ring and a central portion tapering inwardly from each enlarged portion toward the center of the ring to provide stop faces for accommodating pipes of varying diameters between said end portions, each of said end portions being threaded, and threaded pressure applying means cooperating with each end portion of said middle ring for compressing each compression ring axially and expanding it radially into tight engagement with its pipe member.

2,163,811
EXTENSIBLE FASTENER
Arthur R. Richtmyer, Larchmont, N. Y., assignor to Francis John Bayliss, Walsall, Staffordshire, England
Application September 2, 1938, Serial No. 228,129
3 Claims. (Cl. 241—8)



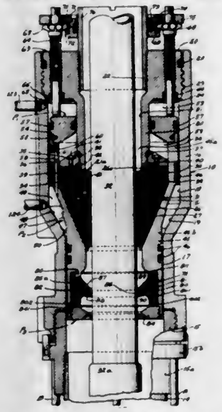
1. In a belt or the like, the combination of a strap having one end turned back upon itself and stitched along three sides to form a closed loop and being provided with spaced transverse slots in the turn of the loop, a U-shaped slide plate arranged within the loop and having its arms projecting through the slots and terminating in hooked shaped portions, springs within the loop connected at their forward ends to the closed end of the slide plate and fixed at their opposite ends to the strap, and a buckle adjustable over the free end of the strap and provided with a bale to detachably engage in the hooks of the slide member.

2,163,812
METHOD OF TREATING UNBOUND BOOKS
Carl Schramm, North Coventry, Conn., assignor to The Smyth Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application November 16, 1937, Serial No. 174,766
Renewed May 18, 1939
10 Claims. (Cl. 11—1)



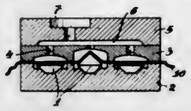
1. The method of treating unbound books which comprises feeding the books in succession with their backs down, joggling the books for flattening their backs by means acting against their backs, carrying the books to pressing means and compressing them over the entire surface of their sides and at the same time holding the backs from distortion, transferring the compressed books to adhesive applying means and applying adhesive to their flat backs, turning the successive books flatwise in opposite directions and stacking them on a support with the adhesive coated backs of the alternate books positioned oppositely and extending beyond the front edges of the adjacent books, depositing the books thus positioned onto a conveyor and removing them for further treatment.

2,163,813
OIL WELL PACKING HEAD
Frederick Stone, Torrance, and Albert L. Stone, Palos Verdes Estates, Calif., assignors to Hydril Company, Los Angeles, Calif., a corporation of California
Application August 24, 1936, Serial No. 97,632
17 Claims. (Cl. 166—14)



1. In a packing head for well pipe, a tubular housing adapted to take work through its bore, the walls of the housing forming a closed space, radially contractible packing in the housing and about the work, a member movable to contract the packing, a plurality of movable stops extending within said space and engageable by said member in its packing contracting movement, and means for adjustably moving said stops simultaneously relative to the housing and packing and said contracting member.

2,163,814
MANUFACTURING OF JEWELRY SET WITH STONES
Daniel Swarovski, Wattens, Tyrol, Austria, assignor to the firm D. Swarovski Glasfabrik und Tyrolit-Schleifmittel-Werke, Wattens, Tyrol, Austria
Application August 29, 1936, Serial No. 98,459
In Austria September 4, 1935
15 Claims. (Cl. 18—42)

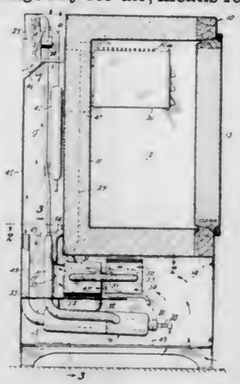


1. The method of setting ornamental stones each having a crown portion and a belt at the major base of the crown constituting that portion of the stone having the maximum cross section, which comprises seating a stone within a mold, in a socket which covers the crown of the stone completely except for clamping surfaces adjacent the widest cross-section of the stone; and pouring a molten plastic material into the mold while pressing the stone into the socket.

2,163,815
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application October 15, 1936, Serial No. 105,682
9 Claims. (Cl. 62—119.5)

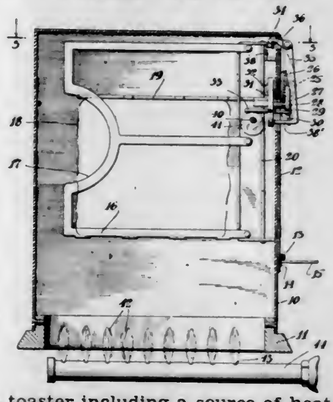
1. Refrigeration apparatus comprising structure forming a vessel provided with a relatively

large heat transfer surface, conduit means for introducing a gas including vaporous refrigerant and absorption liquid into said vessel, means adjacent to said structure forming a laterally extending passageway for air, means for causing air



to flow through said passageway, said structure and conduit means being so constructed and arranged to provide lateral flow of gas in said vessel and from a point of higher air temperature to a point of lower air temperature in the path of flow of air past said structure.

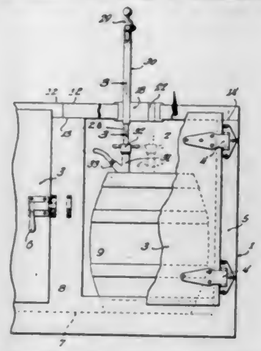
2,163,816
TREATING APPARATUS
Maxwell Vidaver, New York, N. Y.
Application December 24, 1936, Serial No. 117,471
3 Claims. (Cl. 126—41)



1. A toaster including a source of heat, a container disposed adjacent said source and to receive an article to be treated, means contactible with said article to define one dimension of the same, means tending normally to shift said container out of operative association with such heat source, a latch for normally preventing such shifting, and means responsive to a predetermined degree of movement on the part of said defining means for releasing said latch.

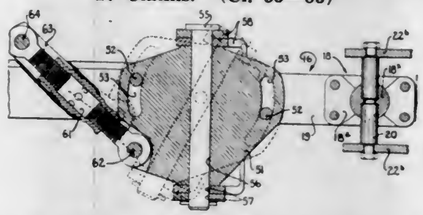
2,163,817
DRAW ROD ADAPTER
Eugene H. Wagner, Milwaukee, Wis.
Application February 13, 1939, Serial No. 256,049
5 Claims. (Cl. 225—3)

1. In a direct draw beer dispensing cabinet, the combination with a keg compartment having a top portion consisting of front and rear sections, one of which constitutes a removable drain pan for the cabinet, of an adapter for a draw rod comprising separable block elements disposed between said sections, one of said block elements having a pair of spaced grooves therein and the other block element having a similarly spaced



groove and a projection, one of said block elements being reversible with respect to the other block element whereby to register the grooves in the two block elements to provide a draw rod passage between them for either side or center tapping in the respective positions of the block elements and to close by the projection on one block element the groove in the other block element not in use.

2,163,818
DISK HARROW
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 7, 1937, Serial No. 157,900
17 Claims. (Cl. 55—83)



1. A disk harrow comprising a pair of disk gangs, a normally vertical pivot connecting the inner ends of said gangs, means for adjusting said gangs about said pivot into either aligned or horizontally angled relation for ordinary field disking operation, and means for tilting said pivot for adjusting said gangs into vertically angled relation for bedding or ditching operation.

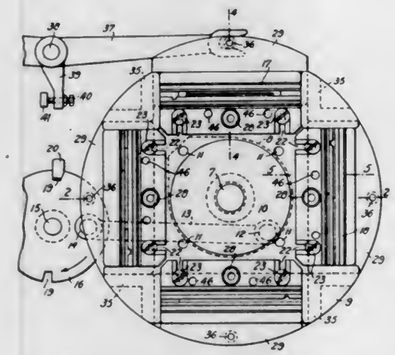
2,163,819
PROCESS OF PRODUCING MAGNESIUM OXYCHLORIDE
Fritz Wienert, Stassfurt, Germany, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
No Drawing. Application December 18, 1936, Serial No. 116,651. In Germany January 4, 1936
4 Claims. (Cl. 23—91)

1. A process of producing magnesium oxychloride, in which a mixture of a substance of the group consisting of calcined magnesia, dry magnesium hydroxide and dry basic magnesium oxychloride, and a solid hydrate of magnesium chloride, in proportions adapted to yield magnesium oxychloride of the desired composition, is gradually supplied with heat from an external source without grinding during the reaction so as to maintain said mixture at temperatures in the vicinity of, but not substantially above, the fusion point of said magnesium chloride hydrate, while avoiding extensive melting thereof.

2,163,820
PHOTOGRAPHIC DEVELOPER
Gustav Wilmanns, Wolfen, Bitterfeld, and Wilhelm Schneider and Alfred Fröhlich, Dessau Anhalt, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application March 19, 1937, Serial No. 131,780. In Germany April 23, 1936
12 Claims. (Cl. 95—88)

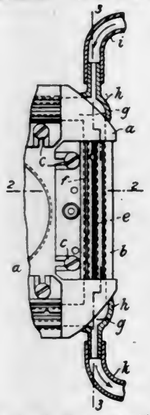
7. A process of developing photographic silver halide emulsions, which comprises treating said emulsions in a bath containing a heterocyclic diamine of the benzene series hydrogenized in the heterocyclic nucleus selected from the group consisting of 5-aminodihydroindoles, 6-aminotetrahydroquinolines, 5-aminobenzothiazolines, tetrahydroquinoxalines, and alkyl- and oxalkyl substitution products thereof.

2,163,821
TYPOGRAPHICAL SLUG CASTING MACHINE
Christian Augustus Albrecht, Berlin, and Hermann Brandenburg, Berlin-Tempelhof, Germany, assignors to Mergenthaler Linotype Company, Brooklyn, N. Y., a company of New York
Application March 31, 1938, Serial No. 199,096
In Germany December 20, 1937
14 Claims. (Cl. 199—47)



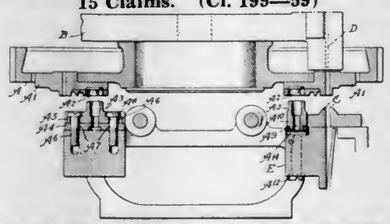
1. A typographical slug casting machine comprising in combination a mould mounted on a mould carrier, means for reciprocating the mould carrier between positions in which the mould therein is located respectively for casting and ejecting a slug, means movable with the mould for separating the sprue from a cast slug, means for trimming the slug during ejection, and means for removing the sprue from the sprue separator during ejection of the slug.

2,163,822
TYPOGRAPHICAL SLUG CASTING MACHINE
Christian Augustus Albrecht, Berlin, and Hermann Brandenburg, Berlin-Tempelhof, Germany, assignors to Mergenthaler Linotype Company, Brooklyn, N. Y., a company of New York
Application March 31, 1938, Serial No. 199,097
In Germany December 24, 1937
7 Claims. (Cl. 199—56)



1. A typographical slug casting machine comprising a mould mounted on a mould wheel, which is movable to carry said mould between the slug casting and ejecting positions, longitudinal channels through said mould and open at both ends, relatively stationary hoods with which the opposite open ends of said channels register and by which they are closed, when the mould is stationary, and means connected to said hoods for passing a current of cooling air through said channels.

2,163,823
SLUG CASTING MACHINE
William B. Ankarstran, Astoria, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application April 20, 1938, Serial No. 203,079
15 Claims. (Cl. 199—59)

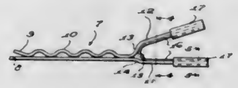


1. In a slug casting machine, the combination of a movable mold carrier, means arranged on the mold carrier for locating it to present the mold in operative position, a frame, and means arranged on the frame to cooperate with said locating means on the mold carrier, said cooperative means comprising a portion fixed to the frame and a detachable portion mounted thereon.

2,163,824
HAIR CURL CLASP
Robert Bacon, Brooklyn, N. Y.
Application February 18, 1939, Serial No. 257,255
1 Claim. (Cl. 132—50)

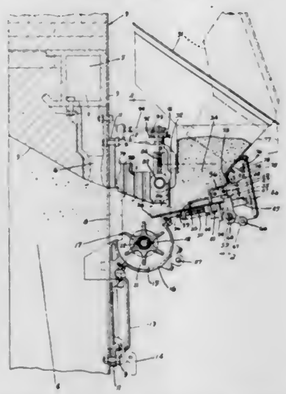
A curl forming and retention clasp especially

adapted for beauty parlor use in the hand formation of so-called sculpture curls comprising a pair of simultaneously cooperable longitudinally elongated companion limbs, a relatively small independent U-shaped spring interposed between corresponding operating ends of said limbs, the arms of said spring resting in immediate contact with the opposed linner faces of coacting portions of said limbs to dispose the latter in superposed relation, the free ends of the arms of the spring terminating flush with the adjacent inner ends of said limbs, duplicate short metal sleeves em-



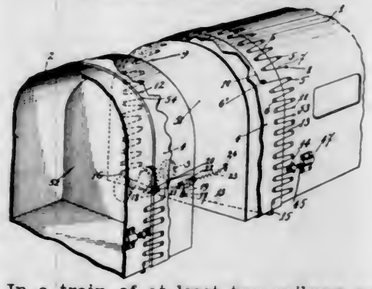
bracing the ends of the spring arms and limbs the outer ends of the sleeves being flush with the adjacent ends of the spring arms and limbs, the opposite jaw forming ends of said limbs being extended beyond the bight portion of the spring at which point they are inwardly offset and then bent together to conform to adjacent portions of said bight and further bent to come into contacting relationship, one limb being straight from end to end and the other limb being transversely crimped with its free end laterally flared, whereby to provide constantly closed readily separable hair clasping jaws.

2,163,825
STOKER
Chester W. Bros, Minneapolis, Minn., assignor to Wm. Bros Boiler & Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application July 29, 1935, Serial No. 33,753
7 Claims. (Cl. 110—115)



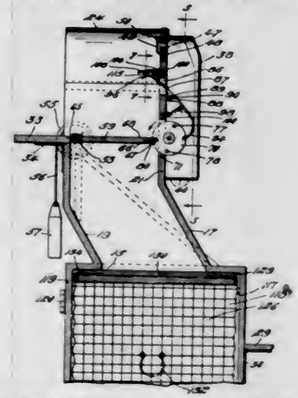
2. In a stoker, a rotor, a fuel hopper, a plate forming the bottom of the hopper and having its discharge end positioned over the rotor, a reciprocating feed shoe mounted over said plate to feed fuel from the hopper to the rotor, an air-cooled gate vertically adjustable to limit the amount of fuel delivered to the rotor per stroke of the feed shoe, and means pivotally supporting the gate whereby the latter may yield, when engaged by tramp iron and other foreign objects entrained with the fuel, to thereby permit such foreign objects to pass through the stoker without damaging the same.

2,163,826
COUPLING DEVICE INTENDED ESPECIALLY FOR RAILROAD VEHICLES
Ettore Bugatti, Molsheim, France
Application November 29, 1935, Serial No. 52,236
In France December 4, 1934
9 Claims. (Cl. 105—15)



1. In a train of at least two railway vehicles coupled together, a device for joining with each other the adjacent respective ends of said vehicles which comprises, in combination, a flexible belt extending from one end of one vehicle to the adjacent end of the other vehicle along their peripheries and substantially flush with the general outlines of said vehicles, a plurality of projecting elements carried by the belt and said respective ends of the vehicles respectively, located around the periphery of the same, adjacent the edges thereof, and at least one cable passing in a slidable manner about said elements so as to pass in zig-zag manner from one projecting element of the belt to a projecting element of one vehicle end and vice versa, over at least a portion of the periphery of said belt, said cable having each of its ends attached to either the corresponding vehicle or the belt, whereby the edges of the belt are kept along the peripheries of the corresponding vehicles despite relative movements of said vehicles with respect to each other.

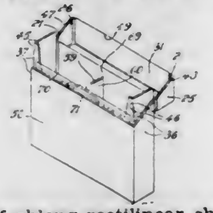
2,163,827
ANIMAL TRAP
Daniel W. Burt, Providence, R. I.
Application January 15, 1938, Serial No. 185,187
14 Claims. (Cl. 43—74)



1. In an animal trap, a casing, a disk pivotally mounted in the casing provided with a cavity, a rock shaft mounted in the casing opposite the disk, a trap door fixed at one end to the shaft and having its opposite end normally extending

in the cavity of the disk, means for normally locking the disk against rotation, means for unlocking the disk to release the door from the disk under the influence of downward pressure upon the door, and gravity means acting upon the shaft for elevating the door to its original position of engagement with the disk, and for rotating said disk in a direction opposite to its first movement by engagement with the free end of the door in being elevated to its original position.

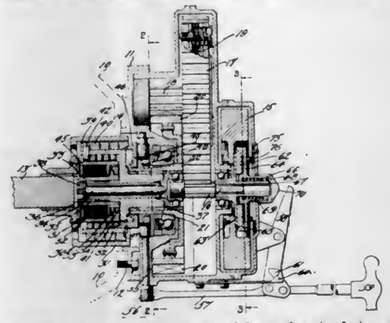
2,163,828
BOX
John Walker Chalmers, Deptford, London, England, assignor to Molins Machine Company Limited, London, England
Application August 15, 1938, Serial No. 225,008
In Great Britain September 22, 1937
8 Claims. (Cl. 229—27)



1. A box of oblong rectilinear shape in cross-section made of cardboard or other like material with the front and back walls of the box substantially parallel and forming the longer sides of the oblong, said box comprising a relatively deep body portion with the opening at the top thereof, a boxlike lid whose back wall is hingedly connected to the back wall of the body portion at a position between the top and bottom of the box and corner portions at the top of the body portion which corner portions extend for a substantial distance above the hinge axis of the lid and engage the front corners of the lid when closed to resist opening of the lid, said corner portions, together with the contents of the box, being arranged within the surfaces swept out by the leading edges of the side walls of the lid during closing of the latter, the front wall of the lid being so dimensioned that during closing of the lid the free edge of such front wall passes clear of the tops of said corner portions and of the front wall of the body portion, while the front corners of the lid, when the latter is closed, extend downwardly below the hinge axis of the lid.

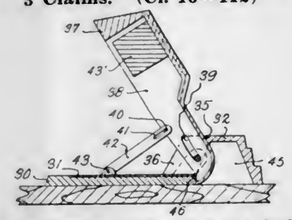
2,163,829
ENGINE STARTER
Roland Chilton, Keyport, N. J., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 4, 1928, Serial No. 275,188
Renewed January 26, 1938
22 Claims. (Cl. 123—179)

1. In an engine starter, the combination with an engine having a drive shaft, of a flywheel, a gear train, a load limiting clutch in said gear train, a member driven from the flywheel through said gear train, means in connection with said member adapted to engage and drive the engine shaft when its relative speed as determined by the gear train ratio falls below that of the flywheel, a second load limiting clutch of lesser capacity than the first said clutch, a member driven from the drive shaft and provided with means to engage the gear train and to drive the flywheel through said gear train and said load limiting clutches when the relative speed of the flywheel falls below that of the drive shaft,



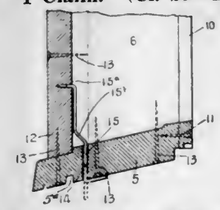
and means manually operable adapted to make said engaging means effective or ineffective.

2,163,830
CASKET HANDLE
George M. Clifford, Westfield, Mass., assignor to Textile Manufacturing Company, Westfield, Mass., a corporation of Massachusetts
Application March 9, 1937, Serial No. 129,862
3 Claims. (Cl. 16—112)



1. A casket handle comprising a hollow supporting structure having two pairs of spaced parallel ears, a pivot extending between each pair of said ears, an arm mounted between each pair of ears and having an arcuate slot to receive the pivot, a bar extending between said arms, and connections between the arms and the supporting structure to constrain the arms to move on said pivots further into the hollow of the supporting structure when the handle is moved to inactive position.

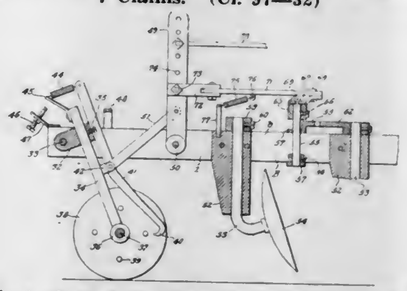
2,163,831
MULLION FASTENING MEANS
Harry W. Cook, Malta, Ohio
Application January 12, 1938, Serial No. 184,670
1 Claim. (Cl. 20—11)



A device for holding a mullion seated on a sill the latter provided with a vertical hole therethrough offset from the seat of the mullion casing on the sill, said device consisting of a piece of rod of bendable metal having its upper portion bent to substantially a right angle to form a spike to engage the inner side of the mullion cas-

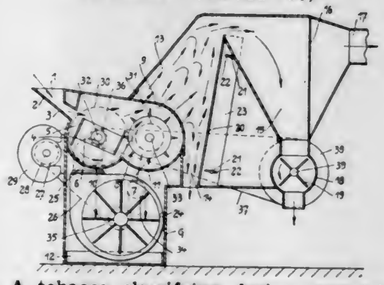
ing, said rod having near its middle an offsetting bend to cause the lower portion of the rod to aline with said hole in the sill, the said lower portion of the rod being of such length as to extend through said hole and permit the bending thereof to engage the lower side of the sill.

2,163,832
PLOW
Anthony Robert Coviello, Tulare, Calif., assignor of fifteen per cent to Ward G. Rush, Tulare, Calif.
Application January 3, 1938, Serial No. 183,212
7 Claims. (Cl. 97—32)



1. A plow of the class described comprising a frame, wheel carrying posts at one end of the frame on which the frame is slidably supported, a normally sloping post at the other end of the frame pivotally supported for swinging movement on a transverse axis, a wheel carried by the sloping post, manually actuated means for locking the last-mentioned wheel against rotary movement which causes the post to move toward vertical position to raise the adjacent end of the frame, means actuated by such movement of the post for raising the other end of the frame, an elongated plow beam pivoted adjacent one end in the frame for movement about a vertical axis, said beam when in plowing position extending at an incline toward one side of the frame or the other, plows having shanks pivoted in the beam, means for shifting the beam from one plowing position to another as the frame is being raised and means for turning the plows from one plowing position to the other as the beam is being shifted.

2,163,833
APPARATUS FOR COMMINUTING AND CLASSIFYING TOBACCO
Oswald Erich Eissmann, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany
Application October 9, 1935, Serial No. 44,287
In Germany October 13, 1934
4 Claims. (Cl. 131—60)

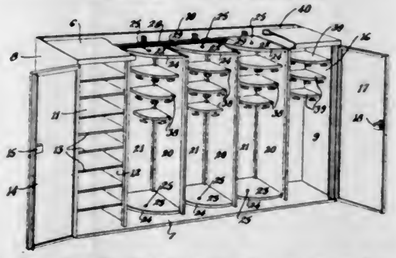


1. A tobacco classifying device comprising a housing, cutting means located within said housing, said housing having a discharge opening in the bottom thereof for the heavier portions of the tobacco, said housing having a second opening for the lighter leaf portions of the tobacco, a sorting device connected to said housing adjacent said second opening, screens covering said openings, a channel in said sorting device extending from said second opening in said housing, an adjustable wall forming a wall of said channel, a screen located in said sorting device and suction means conveying said lighter leaf portions from said cutting means through said sorting device.

2,163,834
DENATURED ALCOHOL CONTAINING DIBENZYLAMINE
Louis J. Figg, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 14, 1937, Serial No. 168,973
1 Claim. (Cl. 202—77)

Denatured ethyl alcohol containing, as an essential denaturing element, from 0.5 to 5 parts, approximately, of dibenzylamine per 100 parts of 95% alcohol.

2,163,835
MULTIPLE LOCKER
Henry A. Forrer, Canton, Ohio, assignor to John-Full Steel Products, Inc., Canton, Ohio, a corporation of Ohio
Application June 3, 1938, Serial No. 211,619
5 Claims. (Cl. 312—191)

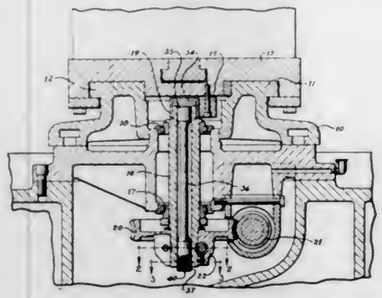


1. A multiple locker including walls defining a compartment, individual L-shaped doors having joined front and side panels defining individual compartment spaces in open and closed positions, web means extending between the panels of each of the doors, and means pivotally mounting said web means on the compartment walls and located so that the front panel of each door when fully open occupies the position of the side panel thereof when the door is closed, said doors being adapted to swing from open to closed position substantially within the compartment spaces defined by their panels, and means operatively connecting the doors for simultaneous opening and closing movement thereof.

2,163,836
BACKLASH-ELIMINATING MECHANISM FOR MACHINE TOOLS
Frederick S. Haas, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application June 23, 1937, Serial No. 149,848
9 Claims. (Cl. 90—22)

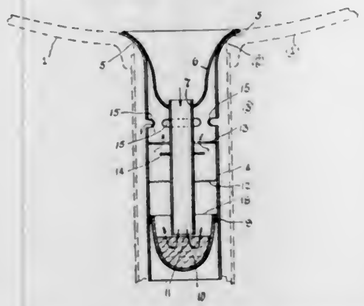
1. In a machine tool having a translatable slide, a support therefor, and a rack bar attached to the under side of said slide, the combination of a

sleeve antifrictionally supported in said support and having a pinion attached to one end in intermeshing relation with said rack and carrying a driver at the other end, a torsion member passing through said sleeve and carrying a second pinion intermeshing with said rack in coaxial relation to the first pinion, positive means interconnecting the other end of said torsion member to said driver and independently of said sleeve,



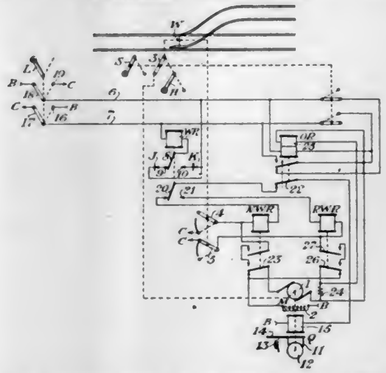
a worm and worm gear for effecting relative adjustment between the driver and sleeve to thereby place a torque on said torsion member, whereby said pinions will be continuously urged in opposite rotative directions into engagement with opposite sides of the teeth on said rack, whereby backlash will be eliminated between said drive and said rack, and a power operable member for rotating said driver.

2,163,837
DENTISTS' GOLD-RECOVERING DRAIN ATTACHMENT
Harold Rush Hall, Cleveland Heights, and George Washington Conner, Cleveland, Ohio
Application August 4, 1937, Serial No. 157,300
3 Claims. (Cl. 209—41)



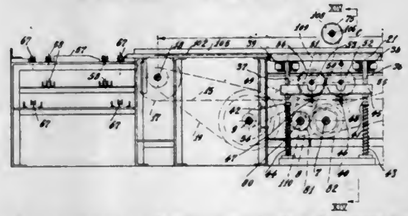
1. A drain attachment for recovering gold and similar precious metals from dental cuspidors and the like, comprising a tubular member adapted to be removably inserted in said drain, a receptacle in said member for material having an affinity for gold and precious metals, a tube spaced from and located within the walls of said member, said tube leading from the top to the bottom of said member and having its lower end terminating in said receptacle, an outwardly flared upper end on said member for engaging with the end of said drain, and a funnel-shaped member carrying said tube and fitting against said flared upper end.

2,163,838
RAILWAY SWITCH CONTROLLING APPARATUS
Claude M. Hines, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 5, 1937, Serial No. 129,210
9 Claims. (Cl. 246—3)



6. In combination, a railway track switch including a motor connected thereto and having a normal position and a reverse position, a normal switch control relay and a reverse switch control relay, a first contact which is open only when said switch is in its normal position and a second contact which is open only when said switch is in its reverse position, a normal operating circuit for said motor governed by said normal switch control relay, a reverse operating circuit for said motor governed by said reverse switch control relay, a normal control circuit for said normal relay, and a reverse control circuit for said reverse relay, both said normal circuits including said first contact and both said reverse circuits including said second contact.

2,163,839
DEVICE FOR CONVEYING AND STRIPPING PRESS CAKES
Adriaan Nicolaas Honig, Hilversum, Netherlands, assignor to Naamlooze Vennootschap: Oliefabrieken "Het Hart" en "De Zwaan" voorheen Adriaan Honig, Zaandam, Netherlands, a corporation of the Netherlands
Application January 4, 1936, Serial No. 57,616
In the Netherlands January 8, 1935
5 Claims. (Cl. 100—52)



1. A conveyor and stripper device for wrapped cakes obtained by pressing oil-bearing seeds comprising endless chains, pushing members on said chains for conveying said cakes, a table movable in a vertical direction for receiving said wrapped cakes, means for moving said table in timed relation to said pushing members, stripping means located above said table against which a cake resting on said table may be pressed by an up-

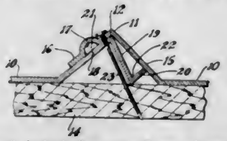
ward movement of said table so that the cloth about said cake may be removed by said stripping means, said chains by which the cakes are moved to below said stripping means being provided with pushing means spaced at certain distances from said pushing members so that the rate of speed of said chains with regard to said stripping means is in timed relation so that said pushing members will convey the cake onto said table before the same is raised while in case the table has been lowered carrying a cake that is not stripped said pushing means will remove said non-stripped cake.

2,163,840

SHEET METAL ROOFING

Martin L. Hunker, Dover, Ohio, assignor to Reeves Steel and Manufacturing Company, Dover, Ohio, a corporation of Ohio

Application June 3, 1938, Serial No. 211,631
2 Claims. (Cl. 108—18)



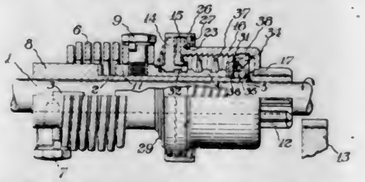
1. A lapped joint for roofing sheets comprising a lapped member having a V formation at its edge comprising two diverging legs, the terminal leg of the V formation being located at a less angle to the vertical than the other leg and terminating in an upwardly and outwardly disposed angular flange, said other leg of the lapped member being straight from top to bottom, and an overlapping member formed at the edge of an adjacent sheet and comprising a V formation having two diverging legs each located at substantially the same angle to the vertical, the terminal leg of said overlapping V formation contacting the adjacent leg of the lapped member, an outwardly disposed, longitudinal channel in said last named terminal leg forming a drain trough and air channel, and said angular flange abutting the adjacent leg of the overlapping member forming a drain trough and air channel therebetween.

2,163,841

ENGINE STARTER GEARING

Daniel P. Kearney, Birmingham, Mich., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application August 31, 1937, Serial No. 161,780
8 Claims. (Cl. 74—7)



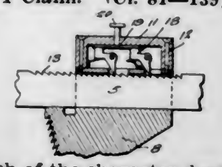
1. In an engine starter, a power member, a driving member, means for moving the driving member into and out of engagement with a member of an engine to be started and for connecting the driving member for rotation by the power member, said connecting means including an overrunning clutch, and detent means for preventing disengagement of the driving member from the engine member until the driving member has overrun the power member for a predetermined number of revolutions, said detent means being arranged not to interfere with the engaging movement of the driving member.

2,163,842

PIPE WRENCH

Lawrence Kuhn, Glidden, Tex.

Application August 1, 1938, Serial No. 222,506
1 Claim. (Cl. 81—139)



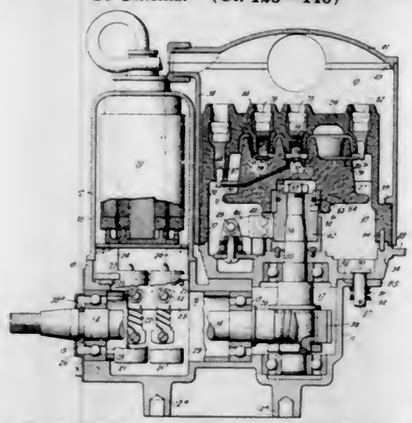
In a wrench of the character described, a handle having teeth and a fixed jaw, a slidable jaw for coaction with the fixed jaw, a yoke carried by the slidable jaw and slidably receiving the handle and having spaced openings to expose the teeth of the handle covered by said yoke, a casing detachably mounted on the yoke to cover the openings, a series of dogs pivoted in the casing for movement through the openings to engage the teeth and each of substantially L-shape, leaf springs carried by the casing and bearing against the dogs to urge the latter in engagement with the teeth, a plunger slidable in the casing, and a plate carried by the plunger and engaging the dogs to permit the simultaneous disengagement of the dogs from the teeth by the manual actuation of the plunger.

2,163,843

IGNITION DEVICE FOR INTERNAL COMBUSTION ENGINES

Raymond P. Lansing, Montclair, and Joseph W. Allen, East Orange, N. J., assignors, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application January 25, 1932, Serial No. 588,754
10 Claims. (Cl. 123—148)



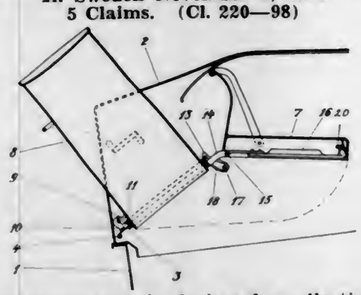
1. In a device of the class described, in combination, a drive shaft, an ignition distributor rotatable with said shaft, a relatively stationary distributor head, and means supported by said head for shielding all of said parts against inductive radiation, said shielding means comprising a casing having a cap portion and a sleeve portion each provided with registering surfaces and each being apertured at registering points to receive the cables by which ignition current is conducted to and from the distributor.

2,163,844

DEVICE FOR COLLECTING REFUSE

Hilding Linde, Kalmar, Sweden

Application May 28, 1935, Serial No. 23,941
In Sweden November 6, 1934
5 Claims. (Cl. 220—98)



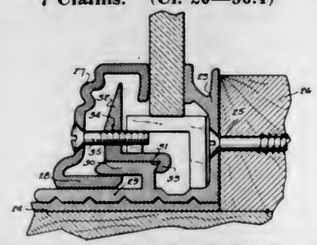
1. Improvements in devices for collecting refuse, comprising a dust bin having a coupling member, and a refuse collecting cart having a pivotally mounted coupling hook for engaging with the coupling member on the dust bin, said coupling hook having an engaging surface forming an acute angle with the longitudinal dimension of the hook, and said coupling member having an engaging surface forming an acute angle with the side-wall of the bin.

2,163,845

SASH OR STORE FRONT CONSTRUCTION

Clyde D. Lowry, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application May 29, 1937, Serial No. 145,438
7 Claims. (Cl. 20—56.4)



1. In a sash or store front construction, the combination of a fixed section and a movable section adapted to receive and grip a pane of glass therebetween, a flange portion having a rearwardly extending lip carried by the fixed section, an anchor member detachably associated with said flange portion and having a hook portion engaging said rearwardly extending lip, and an adjusting member extending through the movable section and anchor member to urge the sections into engagement with the pane of glass, said movable section and anchor member being removable without displacement of the pane of glass.

2,163,846

PREPARATION OF ORGANOSODIUM COMPOUNDS

Avery A. Morton, Watertown, Mass., and Ingenuin Hechenbleikner, Charlotte, N. C.

No Drawing. Application August 13, 1936, Serial No. 95,842
2 Claims. (Cl. 260—665)

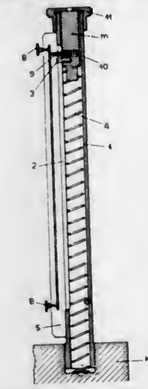
1. The process of adding a primary amyl chloride gradually and with agitation to finely divided sodium in the proportion of one molecule of the chloride to two atoms of sodium, in the presence of a solvent which does not react with sodium metal; permitting a reaction between said chloride and the sodium to occur, meanwhile extracting from the mixture heat evolved by the reaction so that the temperature does not exceed 80° C., the reaction being one which gives optimum yield when the temperature is maintained below 30° C. and being a reaction whose product is an organosodium compound which can be caused to react with a wide variety of reagents.

2,163,847

IMPACT INDICATOR

Marcel Augustin Léon Perrey, Herserange, France, assignor to Societe Anonyme des Hauts Fourneaux de la Chiers, Longwy (Meurthe et Moselle), France

Application June 18, 1936, Serial No. 86,012
In France April 17, 1936
2 Claims. (Cl. 265—2)



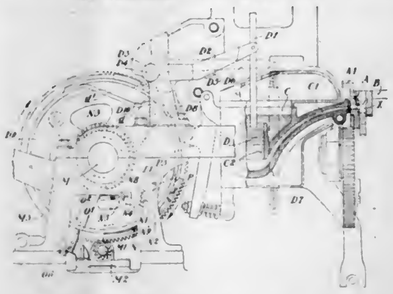
1. An apparatus for the measurement of the work of an impact member travelling at high speed comprising an impact member, tubular guiding means carried by said impact member, an inertia member guided in said guiding means, an elastic member connecting said inertia member to said impact member, said guiding means having a longitudinally extending slot therein, indicating means cooperating with said inertia member and said inertia member having a projection thereon guided in said slot.

2,163,848

SLUG CASTING MACHINE

William L. Petersen, Springfield, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

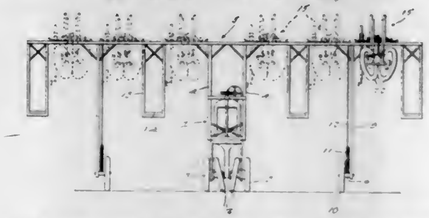
Application May 26, 1937, Serial No. 144,839
20 Claims. (Cl. 199—47)



1. In a slug casting machine, the combination of a mold, a pump plunger for filling the mold

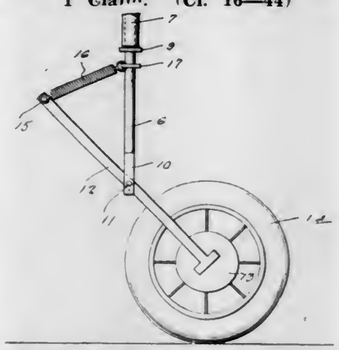
with molten metal under pressure, and automatic means actuated at different periods independently of the pump plunger for delaying the return stroke of said plunger after the mold has been filled with molten metal to allow additional time for the metal to solidify before the pump pressure is removed.

2,163,849
AGRICULTURAL MACHINE
Lester J. Pfister, El Paso, Ill.
Application September 13, 1938, Serial No. 229,776
8 Claims. (Cl. 56—15)



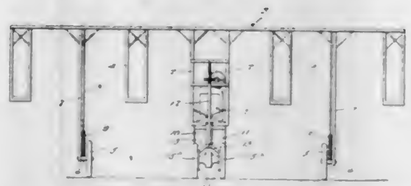
1. A machine of the class described comprising a carrier, a transverse supporting frame mounted in elevated position on said carrier and extending laterally at opposite sides of the vertical plane of the carrier, workmen-supporting platforms suspended from the laterally extended portions of said supporting frame and spaced from one another and from the carrier, and tassel-pulling mechanisms mounted on said supporting frame within convenient reach of workmen occupying the platforms and carrier.

2,163,850
AGRICULTURAL MACHINE
Lester J. Pfister, El Paso, Ill.
Application September 13, 1938, Serial No. 229,777
1 Claim. (Cl. 16—44)



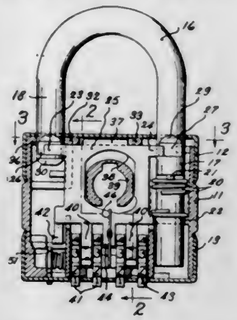
Frame supporting means comprising a vertically arranged tubular member, having its upper end connected with the frame, a rod vertically arranged and having its upper part slidably and rotatably supported in said depending member, a collar on the rod engaging the lower end of the tubular member for limiting upward movement of the rod, spaced depending ears at the lower end of the rod, a lever having an intermediate part pivoted between the ears, a horizontal spindle carried by one end of the lever and extending at right angles to the lever, a wheel rotatably arranged on the spindle, a cross arm at the other end of the lever, a cross plate carried by the rod below the collar and springs connecting the plate with the cross arm and tending to move the lever in a direction to press the wheel against the ground.

2,163,851
AGRICULTURAL MACHINE
Lester J. Pfister, El Paso, Ill.
Application October 22, 1938, Serial No. 236,508
2 Claims. (Cl. 280—80)



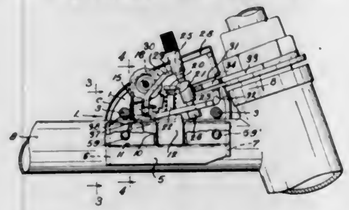
2. In a machine of the class described, a motor driven carrier embodying a rear drive wheel assembly, and suspension means for said rear drive wheel assembly including a bar pivotally mounted on the carrier at the rear end thereof to swing vertically in a direction laterally with respect to the length of the carrier, said bar having diverging arms positively secured to the rear drive wheel assembly, and a spring device anchored to the carrier and connected with said bar and yieldably urging the latter to a substantially true perpendicular position.

2,163,852
LOCK CONSTRUCTION
Kenneth H. Pond, Longmeadow, Mass., assignor to Bemis and Call Company, Springfield, Mass., a corporation of Massachusetts
Application November 18, 1938, Serial No. 241,192
17 Claims. (Cl. 70—21)



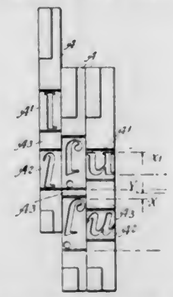
1. In a permutation lock construction a bolt mounted for pivotal and longitudinal movements, means operable by permutation wheels of the lock construction to give pivotal movements to said bolt, a movable and lockable member having a notch engageable by one end of said bolt upon pivotal movement of the latter, said bolt being movable longitudinally by limited movement of the lockable member, guard means located opposite said notch when said lockable member is in locked position and adapted to maintain said bolt and lockable member engaged in locked position of said last-named member, and means for said bolt to pivot upon, which means are located near the opposite end of the bolt from that end which engages said notch.

2,163,853
LOCK CONSTRUCTION
Kenneth H. Pond, Longmeadow, Mass., assignor to Bemis and Call Company, Springfield, Mass., a corporation of Massachusetts
Application February 9, 1939, Serial No. 255,377
9 Claims. (Cl. 70—185)



1. In a permutation lock, permutation members each provided with a lock-controlling element, a securing element having an effective position and an ineffective position, an operating handle for moving said securing element to said effective position, a locking element controlled by said lock-controlling elements, and adapted, when the prevailing combination of the permutation members is disturbed and the operating handle afterwards positioned to render said securing element effective, to lie at a substantial angle to the axis of motion of the handle with one end pivoted on a stationary lock member and the other end in position to engage the operating handle and prevent its motion toward the non-effective position of said securing element.

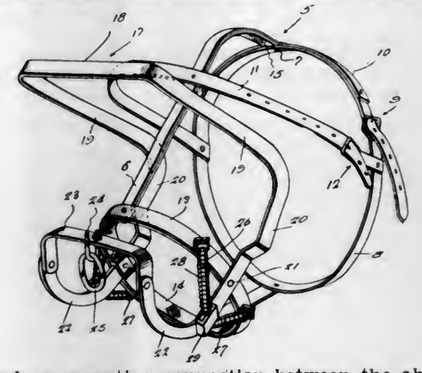
2,163,854
TYPE CASTING MATRIX
John W. Quadt, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application April 20, 1938, Serial No. 203,074
13 Claims. (Cl. 199—66)



1. A matrix for slug casting machines, comprising a body portion formed on its casting edge with a routing notch and with a formative cavity or character located partly within the routing notch and partly in the casting edge immediately beyond the routing notch.

2,163,855
BULL RESTRAINING HALTER
Charles F. Rapp, Churubusco, Ind.
Application July 23, 1937, Serial No. 155,298
Renewed May 8, 1939
4 Claims. (Cl. 119—142)

1. A device of the class described comprising a halter, and a sectional frame structure pivotally mounted thereon and including an abutment, a nosepiece adapted to bridge the nose of the animal, a ring holder connected to said nosepiece,



and an operating connection between the abutment and nosepiece.

2,163,856
LOOSE LEAF RING BINDER
Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application December 18, 1937, Serial No. 180,588
9 Claims. (Cl. 129—4)



1. In a loose leaf binder comprising covers, ring mechanism, and a set of flyleaves, a carrier for each ring half consisting of a bushing small enough to enter the binding holes in a loose leaf sheet and a skirt on one end of said bushing, said carrier being telescoped on said ring half with the skirt resting on a flyleaf in position for the bushing to penetrate the binding holes in the outer sheets of a pack of loose leaf paper while the skirt supports said sheets when the carrier is pushed around the ring by the flyleaf as the covers are closed.

2,163,857
COMBINATION VESTEE AND SCARF
Gertrude L. Smith, Los Angeles, Calif.
Application May 11, 1937, Serial No. 141,941
2 Claims. (Cl. 2—102)



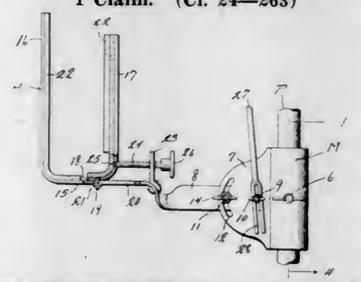
1. The herein described garment comprising a vestee provided at one end with a neck opening, scarf members secured to the end of said vestee to the sides of said neck opening there being parallel slits formed in the vestee adjacent the neck

opening to provide a strap that receives the ends of the scarf members, and a belt formed integral with the opposite end of said vestee.

2,163,858
TREATMENT OF HYDROCARBONS
Robert D. Snow, Bartlesville, Okla., assignor to Philips Petroleum Company, a corporation of Delaware
No Drawing. Application December 20, 1937, Serial No. 180,912
12 Claims. (Cl. 196—13)

7. A process for separating a concentrate of one type of hydrocarbons from a hydrocarbon mixture of different types of hydrocarbons at least one of which is more hydrogen-deficient than the others, which comprises contacting said mixture with an SO_2-olefin-resin oil thereby forming a concentrate of said more hydrogen-deficient hydrocarbons in solution in said SO_2-olefin-resin oil, separating said SO_2-olefin-resin oil from said mixture and separating said concentrate from said SO_2-olefin-resin oil.

2,163,859
SUPPORT FOR ACCORDIONS
Albert J. Ver Bockel, Green Bay, Wis.
Application November 4, 1937, Serial No. 172,805
1 Claim. (Cl. 24—263)



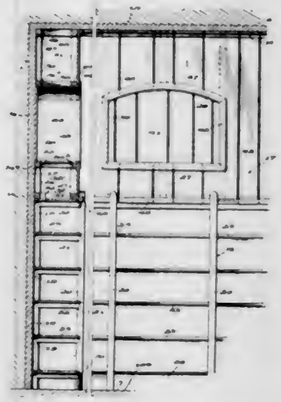
Means for supporting an accordion comprising an arm for connection with a support, an elongated base plate carried by an end portion of the arm, an elongated arm carried by the outer extremity of the base plate, said arm being substantially at right angles to the base plate, the inner portion of the base plate being provided with a longitudinally disposed slot, a second arm having a foot at one end resting upon the base plate, said second arm being of a length less than the first arm, a shank depending from the foot of the second arm and extending through the slot, a retaining member carried by the shank and coacting from below with the base plate, an upstanding lug carried by the base plate inwardly of the slot, a shank threading through said lug and in swivelled connection with the lower portion of the second arm, said threaded shank and the retaining member on the shank depending from the foot of the second arm providing means to maintain the second arm substantially parallel to the first arm, rotation of the shank threaded through the lug providing means to move the second arm toward or from the first arm.

2,163,860
MATERIAL FOR CONSERVING MOISTURE IN SOIL
Robert M. White, Duluth, Minn.
Application August 15, 1938, Serial No. 224,983
3 Claims. (Cl. 47—9)



1. A soil mulch consisting of natural peat in highly compressed very small cylindrical pellets.

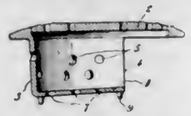
2,163,861
STORE INTERIOR CONSTRUCTION
William Donald White, Algona, Iowa
Application August 3, 1936, Serial No. 94,101
1 Claim. (Cl. 211—134)



In interior construction for stores, a wall structure including an upper portion formed with spaced open front display cabinets, said upper portion consisting of a set of spaced long back posts arranged in spaced pairs, upper and lower short endwise aligned back posts arranged between the posts of each of said pairs, a set of spaced long front posts arranged in spaced pairs aligned with the spaced pairs of the long back posts, upper and lower endwise aligned short front posts arranged between the posts of each of said pairs of the long front posts and disposed parallel to the short back posts, a support common to the long posts and the lower short posts, means between the upper ends of the lower short posts and the posts of the spaced pairs of posts of the sets of long posts and coacting with the short lower posts to provide spaced supports, a front secured to the outer faces of the front posts and formed with spaced openings, spaced parallel horizontally disposed flat members seated on said supports, extended into the bottom of said openings and forming the bottom of the cabinets, means coacting with the lower ends of the short upper posts and disposed between the posts of the spaced pairs of the posts of the sets of long posts to provide confiners of arcuate form, spaced upstanding means of substantially inverted U-form bearing against the lower faces of said confiners, bearing against portions of the posts of the said spaced pairs of posts, extended into said openings, seated on said horizontal members and providing the top and side walls of the cabinets, and a vertical member arranged within the rear and bearing against the inner face of each of said inverted means of U-form, said vertical members seating on said horizontal members and forming closed back walls for the cabinets.

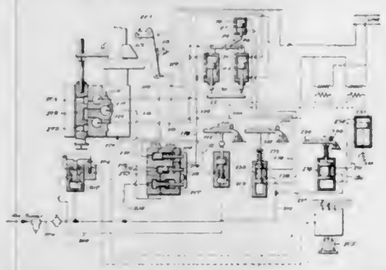
2,163,862
HOLDER OR CONTAINER FOR DENTURES AND OTHER ARTICLES
Jack Wing, South Woodford, England
Application May 9, 1938, Serial No. 206,935
In Great Britain November 3, 1936
1 Claim. (Cl. 206—1)

A denture holder comprising a receptacle to contain a liquid cleaning medium, the receptacle being fully open at the upper end, a perforated removable cover therefor having a contour corresponding to that of the receptacle and perforated at various points throughout its full area, the diameter of the cover exceeding that of the receptacle so that the free edge of the cover materially overlies the upper edge of the receptacle, and a container carried by and depending from the cover, with a diameter materially less than that of the receptacle, the container being open throughout its full height and for a width corresponding approximately to the diameter of the



container, said container being perforated in its bottom and side walls and having its bottom wall inclined downwardly from the edge of the container formed by the opening therein, the container when seated in the receptacle with the cover resting on the upper edge of the receptacle being freely open to circulation of any liquid in the receptacle through the bottom and side walls of the container and freely open to the admission of air through the openings in the cover, the inclined bottom of the container preventing accidental displacement of the article supported thereon.

2,163,863
APPARATUS FOR WELDING
Edward G. Biederman, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 15, 1937, Serial No. 163,955
43 Claims. (Cl. 219—4)

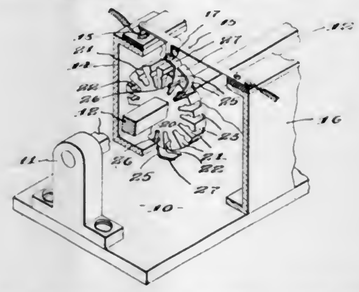


1. Welding apparatus comprising a carrier for the work to be welded, a plurality of welding stations for electrically welding said work, each of said welding stations including a plurality of opposed electrodes arranged to contact and travel with the work during welding, conveyor mechanism for continuously propelling said carrier by said welding stations, and mechanism for automatically shifting said work carrier between welding operations to present different areas of said work to different welding stations.

21. In a mass production welder, the combination of a spot welder provided with a control and arrangement to continuously repeat when the control is thrown to provide a line of spot welds and a work conveyor for propelling the work past the repeat welder, the said conveyor provided with means for causing the control for the repeat welder to be thrown on and off to determine the length of the line of welding.

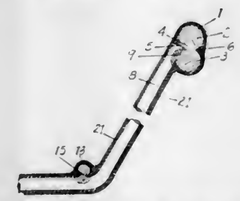
32. In an electrical welding apparatus a welding station having a welding tool, a work conveyor for propelling the work past said tool, a shiftable support for said tool, and means for shifting said support and welding tool relative to said conveyor and work and across the path of travel of said conveyor and work to welding along an undulating or irregular line.

2,163,864
VARIABLE CAM STRUCTURE
Carl H. Bissell, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application October 12, 1937, Serial No. 168,617
6 Claims. (Cl. 74—567)



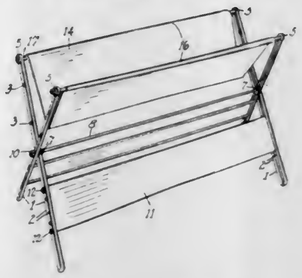
1. A variable cam structure comprising a shaft, a plurality of disks mounted thereon, said disks being individually adjustable to different radial positions relative to said shaft and being formed with a plurality of radially extending slots, cam lobe members insertable in said slots and being formed with a U shaped formation with the legs of the U formation yieldingly engaging the side walls of said slots to detachably secure said members to the disks, and said members being formed with a lobe surface extending circumferentially of the disks and forming a continuation of the lobe surface of its adjacent member.

2,163,865
DISH DRAINING RACK
Dewey H. Bitney, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich., a corporation of Michigan
Application April 21, 1938, Serial No. 203,267
7 Claims. (Cl. 141—11)



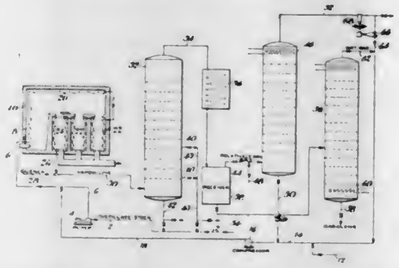
1. In a dish draining rack, the combination of a rim comprising superimposed border rods fixedly secured together by welding, spaced wall members having outwardly inclined side will portions disposed with their upper ends on the inner sides of the bottom border rod and welded thereto with the upper border rod at least partially overhanging the ends of the wall members, and a plastic coating for said rim and wall members filling the recesses resulting from the joining of said members.

2,163,866
DISPLAY RACK
Dewey H. Bitney, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich., a corporation of Michigan
Application April 21, 1938, Serial No. 203,268
5 Claims. (Cl. 248—150)



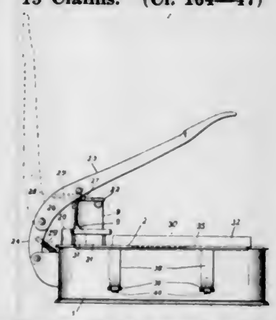
1. In a display rack, the combination of pairs of crossed supports each comprising substantially parallel spaced longitudinal members and truss block elements arranged between said longitudinal members at spaced intervals and welded thereto, washer-like eye members welded to the sides of the upper ends of said support members and also at the crossing point thereof, a tie rod arranged through said eye members positioned at the crossing point of said supports, combined display panels and reinforcing members consisting of cross rods disposed between the longitudinal members of said supports below their crossing point, and panels having their edges folded over said rods disposed between said supports with their ends in abutting relation thereto, and shelf supporting rods engaging the eye members in the upper ends of said supports.

2,163,867
CONVERSION OF HYDROCARBONS
Edmund G. Borden, Little Neck, N. Y., assignor to Power Patents Company, Hillside, N. J., a corporation of Maine
Application March 3, 1936, Serial No. 66,787
5 Claims. (Cl. 196—9)



5. In the process of converting hydrocarbons boiling below the gasoline range into a motor fuel product having high anti-knock characteristics and boiling within the gasoline range in which a normally gaseous hydrocarbon fraction is subjected to thermal conversion conditions at relatively high pressure in a conversion zone and in which the resulting gasoline product is separated from the normally uncondensable constituents at high pressure, the improvement which comprises passing the separated normally uncondensable constituents into a rectifying tower and therein rectifying and fractionating the constituents to produce a narrow fractional condensate containing such constituents as propylene and other hydrocarbons of similar boiling point and passing said condensate fraction from said rectifying tower into said conversion zone to be converted into products boiling within the gasoline range.

2,163,868
CUTTING MACHINE
Theodore Christie, Rochester, N. Y., assignor to Lassco Products, Inc.
Application November 9, 1936, Serial No. 109,818
15 Claims. (Cl. 164—47)

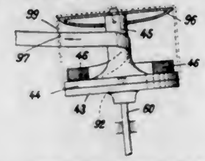


14. A cutting machine comprising a casing having an open top and a closed bottom, a table top over the open top of said casing, a socket formed in said table top, a cutting unit having a body member adapted to engage into said socket to hold and removably support said cutting unit in a predetermined position in said casing, a pair of parallel guide cylinders in said body member, guide thimbles mounted to slide in said guide cylinders, a trimming knife engaging said guide thimbles for its support and guidance thereby, a spring in each of said guide cylinders to yieldingly support said guide thimbles and said trimming knife in the normal elevated position, a stationary cutting knife held yieldingly against said trimming knife and means for moving said trimming knife to provide a shearing action between it and said stationary knife.

2,163,869
MAKING CELLULOSE ETHERS
William R. Collings and Lee De Pree, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application September 1, 1937, Serial No. 161,967
2 Claims. (Cl. 260—231)

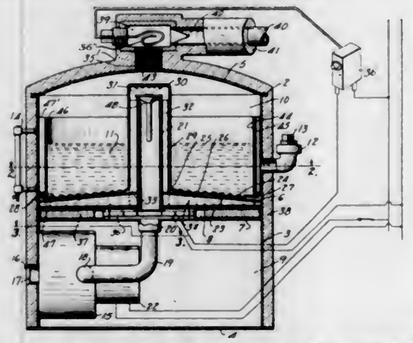
1. In a single stage etherification of alkali cellulose containing between about 1 and about 4 parts of alkali and correspondingly between about 0.3 and about 2 parts of water per part of cellulose by weight, the method which consists in heating the said alkali cellulose with at least 8 parts by weight of a lower alkyl halide per part of cellulose present, at a reaction temperature between about 60° and about 150° C., only until between about 80 and about 95 per cent of the alkali present has been neutralized by reaction with the said alkyl halide, discontinuing the reaction before the pH of the reaction mixture has been reduced below about 8, and recovering the so-produced lower alkyl ether of cellulose containing between 2.0 and about 2.75 alkyl groups per anhydro-glucose unit, said ether being characterized by its ability to deposit from solution stronger, more flexible and more stable films than do similar ethers prepared under reaction conditions such that the alkyl halide is not in excess over the alkali present and such that the alkali is substantially neutralized.

2,163,870
ENDLESS FILM BAND REELING APPARATUS
Walter Dällenbach, Berlin-Charlottenburg, Germany, assignor to Julius Pintsch Kommanditgesellschaft, Berlin, Germany
Application April 16, 1936, Serial No. 74,796
In Germany April 18, 1935
5 Claims. (Cl. 88—18.7)



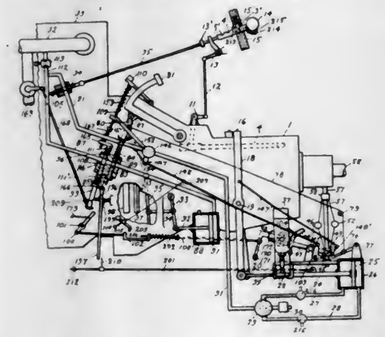
1. A film conveying apparatus for paying-out and re-reeling a coiled endless film band, comprising a rotatable spool including a coil supporting plate and a core, said core being centrally mounted on said plate and projecting axially, at least by the width of the film beyond the coil portion of the film on the plate, the projecting portion of said core gradually decreasing in diameter uniformly towards its axis outwardly from the plate to guide an edge of the film out of the coil, a rotatable film driving drum around which a loop of the film extends, means for supporting said film driving drum, means to support said spool with its axis in a predetermined inclined position with respect to the axis of the drum, and means for driving said film drum to pull the film from the projecting portion of the core.

2,163,871
METHOD OF GENERATING GAS
Alfred J. Diescher, Winfield, Kans., assignor to B. E. Hepler, New York, N. Y.
Application December 30, 1937, Serial No. 182,633
2 Claims. (Cl. 261—14)



1. The method of preparing and maintaining a normally non-explosive air and vapor mixture including, contacting air and a volatile petroleum hydrocarbon liquid to effect absorption by the air of hydrocarbon vapors in quantity to form a mixture having a B. t. u. value within a safely non-explosive range at the upper explosive limit, applying heat in the zone of contact to maintain the absorbing power of the air necessary in effecting said B. t. u. value upon drop in atmospheric temperature, controlling said heat to maintain a substantially uniform temperature necessary to maintain said B. t. u. value of the mixture, and storing said mixture and conveying said mixture without material loss of heat to a point of use.

2,163,872
AUTOMATIC TRANSMISSION
John J. Drabin, New York, N. Y., assignor, by mesne assignments, to Bragg-Kliesrath Corporation, South Bend, Ind., a corporation of New York
Application September 6, 1933, Serial No. 688,339
18 Claims. (Cl. 192—.01)

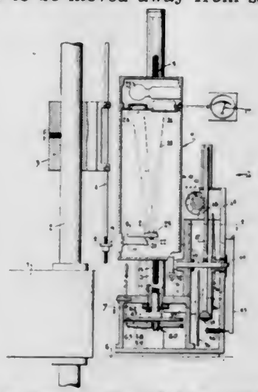


1. In an automatic transmission for an automobile, the combination with a housing containing transmission gears adapted to be selectively connected for different gear ratios, of sliding members for shifting said gears, a motor adapted to shift said gears, a centrifugal governor operatively connected with the driven shaft of said transmission, means to change said connections by said governor at predetermined speeds, means to disengage the engine clutch when said connections are being made, means controlled by said governor for operating said motor when said connections are made for shifting said gears and when said clutch is disconnected, means to disengage said clutch when the accelerator pedal is released, means to render said motor operative when said accelerator pedal is released, and means to release said clutch and to connect the low gear when said governor drops into a predetermined low speed position.

2,163,873
APPARATUS FOR DETERMINING RATE OF STRAIN
Chester H. Gibbons, Drexel Hill, Pa., assignor to Baldwin-Southwark Corporation, a corporation of Delaware
Application August 31, 1936, Serial No. 98,701
7 Claims. (Cl. 265—12)

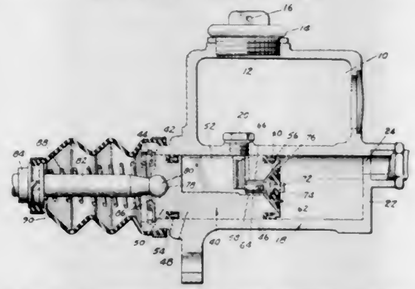
1. Apparatus for determining the rate of movement of a power operated device comprising, in combination, an element movable in response to movement of said device, another element movable at a predetermined rate of speed, mechanism interposed between and normally continuously operatively connected to each of said elements so as to be instantly responsive to any relative movement therebetween, and indicating means normally disposed in a relatively immovable neutral position when no relative movement occurs between said elements thereby

indicating that said responsive element is moving at said predetermined speed, said indicating means being operated by said interposed mechanism so as to be moved away from said neutral



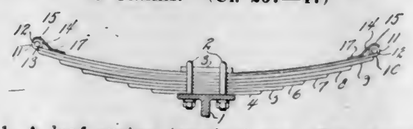
position upon occurrence of any relative movement between said elements thereby instantly indicating that said responsive element is moving at a rate above or below said predetermined rate.

2,163,874
COMPRESSOR FOR HYDRAULIC BRAKES
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application October 23, 1936, Serial No. 107,239
11 Claims. (Cl. 60—54.6)



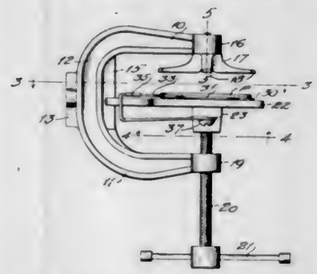
1. A fluid pressure producing device comprising a reservoir, a cylinder supplied therefrom, a piston moving in the cylinder having a passage therethrough, a valve controlling the passage, and means comprising a hollow tube forming a liquid passageway from said reservoir to said cylinder and extending into the cylinder for holding the valve open when the piston is in fully retracted position.

2,163,875
SPRING TERMINAL REINFORCEMENT
Niels E. Hendrickson, Toledo, Ohio, assignor to The Mather Spring Company, Toledo, Ohio, a corporation of Ohio
Application October 31, 1938, Serial No. 237,916
5 Claims. (Cl. 267—47)



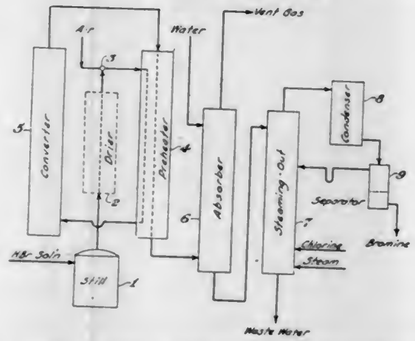
1. A leaf spring terminal eye offset laterally from the leaf extending therefrom, and a strip, anchored with the leaf spaced from the eye, and inclined away from the leaf to anchor with the eye.

2,163,876
CLAMP FOR VULCANIZING PATCHES
Matthew E. Hill, Atlanta, Ga., assignor to The Holfast Rubber Company, Atlanta, Ga., a corporation of Georgia
Application January 10, 1936, Serial No. 58,581
8 Claims. (Cl. 18—18)



4. A vulcanizing clamp including a frame having an upper arm and a lower arm, a clamping screw threaded through said lower arm and projecting upwardly therefrom, a platen mounted on the upper end of said screw, rotation of said screw causing a raising and lowering of said platen, a spider carried by said upper arm and having arms extending over said platen, and a spring clamp attached to said platen and extending thereover to grip a freely movable vulcanizing unit having a patch on its bottom to be vulcanized onto the platen, said spring clamp being formed of wire and having an open loop extending over the upper surface of said platen, and provided with oppositely disposed lobes adapted to receive peripheral portions of the vulcanizing unit to position the latter.

2,163,877
PROCESS OF MAKING BROMINE
George W. Hooker, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application July 1, 1937, Serial No. 151,464
2 Claims. (Cl. 23—216)

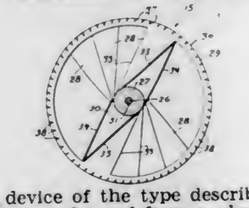


1. The process of oxidizing hydrogen bromide to bromine which comprises mixing hydrogen bromide gas with an oxygen-containing gas in such proportion that the oxygen is present in the mixture in excess of the proportion required by the theoretical equation,

$$4HBr+O_2 \rightarrow 2Br_2+2H_2O$$

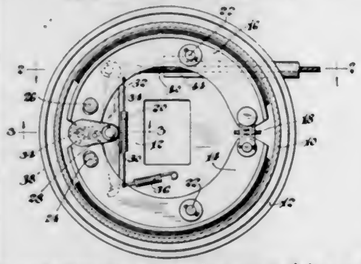
passing the mixed gases at a temperature between 325° and 425° C. in contact with a body of a catalyst consisting of a compound of a metal selected from the group consisting of copper, nickel, cobalt, manganese, thorium, and cerium, scrubbing the hot reaction gases with water to condense and absorb the bromine therein, vaporizing bromine from the water by distilling with steam, condensing the vapors, and separating liquid bromine from the aqueous condensate.

2,163,878
ROTARY DICING MACHINE
Timothy F. Hornung, Oroville, Calif.
Application September 14, 1937, Serial No. 163,775
8 Claims. (Cl. 146—78)



2. In a device of the type described, a hollow cylindrical dicer formed from a plurality of cutting rings, spokes supporting the rings and arranged as a screw having a diameter equal to the inner diameter of the rings, said screw expelling the material from one end of the dicer, and cross-knives carried by the rings for forming dies that have open ends.

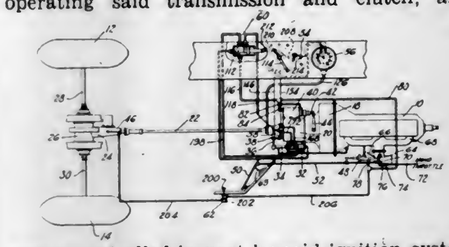
2,163,879
BRAKE
Bryan E. House, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application May 24, 1929, Serial No. 365,596
21 Claims. (Cl. 188—78)



1. A brake-applying device comprising a three-arm lever pivoted at the end of one arm and having a return spring acting on the second arm and having applying means acting on the third arm, in combination with a floating cam lever pivoted at its end thereto.

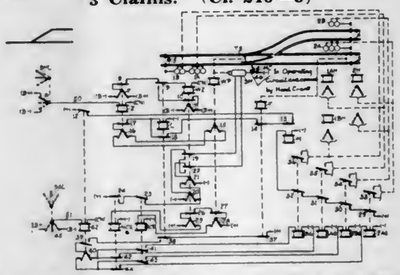
2,163,880
GEAR SHIFTING MECHANISM
George F. Houston, Hamilton, Ohio, and Roy S. Sanford, New York, N. Y., assignors to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application February 5, 1936, Serial No. 62,466
10 Claims. (Cl. 192—.01)

1. In an automotive vehicle provided with a plurality of transmissions, an accelerator, a clutch and an ignition system, power means for operating said transmission and clutch, and



means controlled in part by said ignition system and accelerator for controlling the operation of said power means.

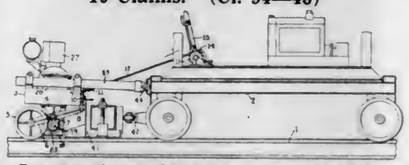
2,163,881
RAILWAY TRAFFIC CONTROLLING SYSTEM
Winthrop K. Howe, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application June 16, 1937, Serial No. 148,448
3 Claims. (Cl. 246—3)



1. In a switch and signal control system for railroads; a power-operated track switch provided with cranking means to enable it to be hand cranked; a three-position control lever having normal and reverse controlling positions and a non-controlling position; a switch machine control relay; a lock relay; control circuit means connecting said control lever and said switch machine control relay for controlling said switch machine control relay to normal and reverse energized positions, said circuit means including a contact closed only when said lock relay is energized; stick circuit means for said switch machine control relay closed if said lock relay is deenergized and if said switch machine control relay is then energized over said control circuit means; a normally closed energizing stick circuit for said lock relay opened whenever traffic passes over said track switch, a pick-up circuit for said lock relay closed only if said control lever is in a normal or reverse position corresponding to the position then assumed by the track switch; operating circuits for said switch machine controlled by said switch machine control relay including a source of potential and effective to operate the track switch to a normal or reverse position in accordance with the normal or reverse energized position of said switch machine control relay and including contacts in each circuit opened automatically when said switch machine completes its operating stroke, said operating circuits having said potential removed therefrom while said switch machine control relay is deenergized, whereby the accidental movement of the switch machine out of a normal or a reverse position again supplies energy to the switch machine in accordance with the energized normal or reverse position of said switch machine

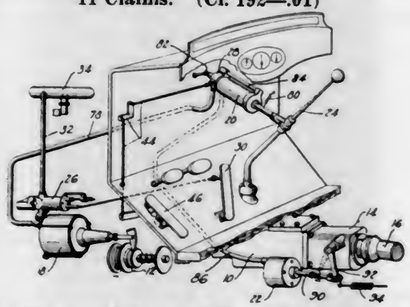
control relay irrespective of whether said lock relay is in its attracted or retracted position, and whereby said control lever can be moved to its non-operating position to deenergize said switch machine control relay before said lock relay assumes its retracted position and prevent such application of power to said switch machine when said cranking means is to be operated, and whereby said control lever must assume or be returned into correspondence with the last energized position of said switch machine control relay subsequent to each locking of the switch machine control relay before the switch can be power operated to a new position.

2,163,882
CONCRETE PLACING APPARATUS
Corwill Jackson, Ludington, Mich.
Application January 22, 1936, Serial No. 60,237
10 Claims. (Cl. 94—48)



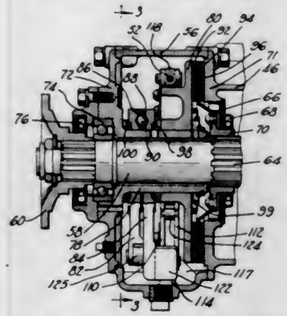
1. In a machine of the class described, the combination of a carrying frame provided with depending standards, carrying wheels, supporting arms for said carrying wheels pivotally mounted on said standards, a cylindrical vibratory element disposed horizontally between said standards and provided with a vertically disposed top plate and with forwardly projecting wings at its ends, means for mounting said vibratory element to permit vibratory movement thereof, a shaft disposed longitudinally within said vibratory member and provided with unbalancing weights, a centrally disposed transmission housing projecting upwardly from said vibratory element and opening thereto, cushioned means for supporting said housing in upright position, a motor mounted on said carrying frame and provided with a driving shaft supported at one end by said housing and having a flexible vibration absorbing section between the housing and the motor, driving connections for said driving shaft to said vibrating shaft arranged in said housing, and means for adjustably supporting said wheel supporting arms.

2,163,883
GEAR SHIFTING MECHANISM
Victor W. Kliesrath, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 29, 1934, Serial No. 717,935
11 Claims. (Cl. 192—.01)



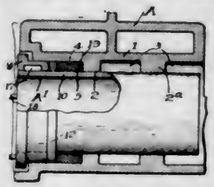
1. The combination with separate clutches ahead of and to the rear of the variable gear transmission of an automotive vehicle, of power means for operating both of the clutches and the transmission to facilitate the gear shifting operation, said power means comprising a separate pressure differential operated motor for operating each of the clutches and a third pressure differential operated motor for operating the transmission, and further comprising a single valve means for in part controlling the operation of all of said motors.

2,163,884
BRAKE
Ludger E. La Brie, Detroit, Mich., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application July 6, 1936, Serial No. 88,985
10 Claims. (Cl. 188—140)



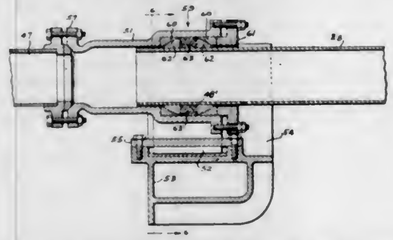
1. In a mechanical servo power brake, a wheel brake operating linkage, an automative vehicle transmission housing having a drive shaft extending from the rear thereof, a fixed friction face on the rear surface of said transmission housing, a friction member rotatable with said drive shaft and adapted to engage said face, an axially movable friction plate adapted to engage said friction member and cause the same to engage said face, and means for transmitting torque derived from said plate to said linkage.

2,163,885
LINER CONSTRUCTION
John W. MacClatchie, Los Angeles, Glenn D. Johnson, Compton, and Carl A. Thies, Huntington Park, Calif., assignors, by direct and mesne assignments, to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application December 28, 1935, Serial No. 56,486
12 Claims. (Cl. 29—156.4)



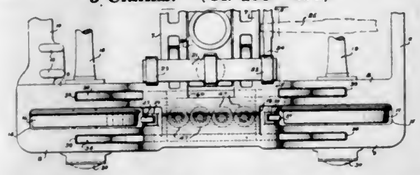
1. In combination, a cylinder of a pump of specified dimensions and which is counterbored at the outer end of its main bore to form an abutment shoulder, a reduced liner, an annulus permanently secured on said reduced liner, the annulus forming a collar adapted for reception in the counterbore of the pump cylinder so as to provide a predetermined longitudinal space between said collar and said abutment shoulder when the liner is in operative position, the annulus also forming a sleeve adapted for snug reception in the main bore of the cylinder of the pump, a second annulus permanently secured on the liner stock and adapted for snug reception in the main bore of the pump cylinder, the first mentioned annulus having a vent opening through its sleeve portion, a packer on said sleeve sealing said vent and occupying the longitudinal space between said collar and said abutment shoulder when the liner is in operative position, a gland adapted to be slid onto the outer end of the liner for reception in the outer end of the counterbore of the pump cylinder, and means for maintaining longitudinal pressure against the gland to compress the packer against the collar and the abutment shoulder so as to seal off between the cylinder and the liner.

2,163,886
LOCOMOTIVE STEAM PIPE CONNECTION AND SUPPORT
James C. Maris, Glenolden, Pa.
Application March 4, 1937, Serial No. 129,028
2 Claims. (Cl. 105—47)



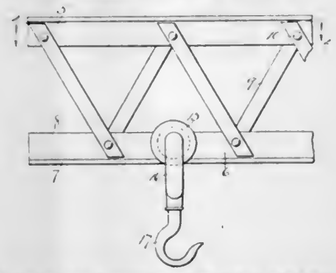
1. The combination in a locomotive having a frame, forward and rear cylinder structures, a pipe for conducting steam from the rear cylinder structure to the forward structure, said pipe being formed in sections adapted to expand longitudinally relative to each other, means for supporting and packing the adjacent ends of said pipe sections including an outer casing secured to one of the same, a longitudinal guiding flange formed integrally with and directly on said casing to support the same, means formed rigidly with respect to said frame to provide a slideway for vertically and laterally restricting but longitudinally movably guiding said flange, said slideway having upper and lower opposed members forming guiding surfaces, said opposed surfaces normally having slidable contact with both the upper and lower surfaces of said guiding flanges so that said casing and its flanges together with said opposed guiding surfaces form a self contained unit which resists rotational movement in a vertical plane thereby to maintain said pipe sections in substantial alignment with each other regardless of any tendency of the pipe sections to tilt said casing about a transverse axis, the other of said sections including a passage portion as a fixed part thereof and being telescopically received within said casing, and packing interposed between said passage portion and casing, whereby said longitudinal guiding flange and slideway provide a direct and positive vertical and lateral support for said casing, passage portion and interposed packing, said casing being vertically and laterally supported independently of either of said pipe sections.

2,163,887
LOCOMOTIVE TRUCK
James C. Maris, Glenolden, Pa.
Application March 27, 1937, Serial No. 133,405
3 Claims. (Cl. 105—194)



1. A railway truck comprising, in combination, a frame each side of which has a pair of spaced wheel pieces, a horizontal member transversely connecting one pair of said wheel pieces substantially at their central portion and another transverse member similarly connecting the other pair of wheel pieces, said transverse members providing spring supports, pedestals formed in said spaced wheel pieces, wheels disposed between each of said pairs of wheel pieces, a plurality of longitudinally spaced axles each of which has a pair of said wheels rigidly connected thereto, inboard and outboard journal boxes supported by each axle which carries a pair of said wheels, said journal boxes being guided in the pedestal guides of said wheel pieces, longitudinal equalizing beams between the outboard journal boxes of the longitudinally spaced wheels and longitudinal equalizing beams between the inboard journal boxes of said spaced wheels, springs disposed between said equalizing beams and said transverse connecting members, transoms connecting the two pairs of wheel pieces and having a bolster opening terminating at the inner edges of said transverse connecting members adjacent the vertical plane of the inner wheel pieces, and a swing bolster disposed in said bolster opening and supported by said transoms so as to transmit load first to said transverse connecting members and thence to the springs upon which said transverse connecting members are supported.

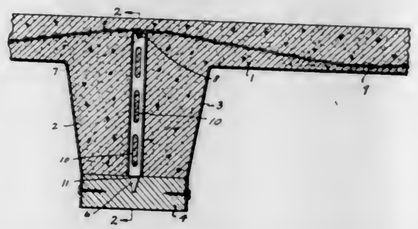
2,163,888
MONORAIL
Russell E. Nelles, South Orange, N. J., assignor to The Union Manufacturing Company, New Britain, Conn., a corporation of Connecticut
Application May 23, 1938, Serial No. 209,469
2 Claims. (Cl. 104—107)



1. A monorail comprising two oppositely positioned single T-bars having stems projecting in line toward each other, tie bars arranged in two sets the members of each set being all located on the opposite side of the stems from all the members of the other set, the members of both sets being arranged in zigzag fashion, each end of each of said members of one set meeting the

end of a member of the other set on the opposite side of the stem to which said end is secured and means for securing the ends of said bars to said stems.

2,163,889
CHANNEL CHAIR
Ernest A. Podd and Francis J. Niven, Houston, Tex.
Application January 15, 1938, Serial No. 185,137
1 Claim. (Cl. 72—122)



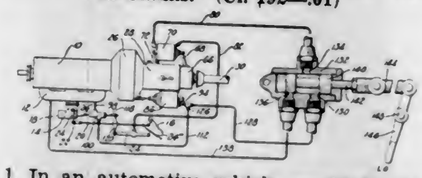
A channel chair comprising an elongated channel shaped member having a notch at one end forming a rod seat and having an opening through the web of the member and a tapered tang at the other end of said member, said tang being weakened adjacent the corresponding end of the member to facilitate the removal of the tang.

2,163,890
NONSKID DEVICE FOR AUTOMOBILE TIRES
John C. Ryan, Toronto, Ontario, Canada, assignor of one-third to Russell Bowlby and one-third to Charles B. Lewis, both of Toronto, Ontario, Canada
Application December 14, 1937, Serial No. 179,732
4 Claims. (Cl. 152—221)



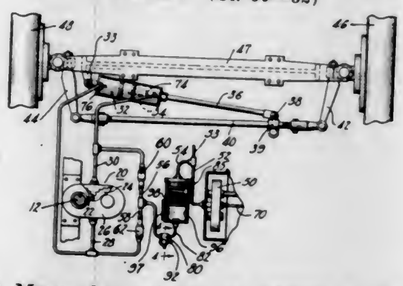
1. A non-skid pad for attachment to an automobile tire, said pad being of tough rubber composition and having a local tread-forming area presenting a base portion progressively increasing in depth in opposite directions from a central region to present a deeply concaved surface on the tread side terminating in prominent shoulder formations of substantial apexed form, said deeply concaved area being subdivided by cross ribs which bridge and progressively merge with said shoulders and increase in depth in opposite directions toward said central area, said ribs presenting concaved tread surfaces of lesser concavity than said base area, said apexed shoulders being of massive cross-sectional area relative to that of said cross ribs and adapted to sustain the major load.

2,163,891
CLUTCH CONTROL MECHANISM
Roy S. Sanford, New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 19, 1934, Serial No. 716,249
12 Claims. (Cl. 192—.01)



1. In an automotive vehicle provided with a transmission, an accelerator, a centrifugal clutch forward of the transmission and a free wheeling unit rearward of the transmission, accelerator controlled vacuum means operable upon release of the accelerator to isolate the transmission by rendering the centrifugal clutch inoperative and the free wheeling unit operative as a unidirectional drive mechanism to thereby facilitate operation of the transmission, and selector means for rendering the vacuum means operative upon the free wheeling unit irrespective of the position of the accelerator.

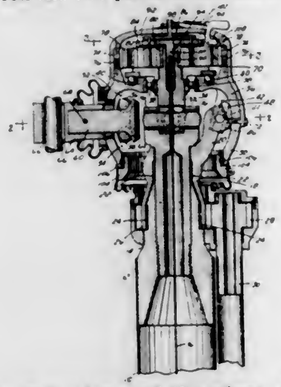
2,163,892
STEERING MECHANISM
Roy S. Sanford, New York, N. Y., and Victor W. Kliesrath, South Bend, Ind., assignors to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application October 7, 1936, Serial No. 104,348
2 Claims. (Cl. 60—52)



2. Means for maintaining pressure in a hydraulic system comprising two separate means providing fluid under pressure, fluid transmitting connections interconnecting said two separate means or sources of pressure with the hydraulic system, means interposed in said connections and constituting an element of said connections, said latter means including a reservoir, and valvular means therein automatically operable, in the event of the inadequacy of one of said sources of pressure to maintain the pressure of the system, to bring into play the other of said sources of pressure.

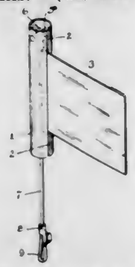
2,163,893
AUTOGIRO ROTOR HUB
George S. Schairer, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application March 1, 1937, Serial No. 128,398
18 Claims. (Cl. 244—18)

1. In a hub to engage rotatable aircraft wings adapted to rotate at an angle of incidence and to oscillate vertically, a two-part rotatable shell, means engaging both parts of said shell to connect the wings to the hub, means to cause rotation between the two parts of the shell to change



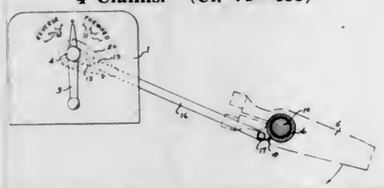
the angle of incidence of the wings, and means engaging both parts of the rotatable shell to enable the wings to oscillate vertically about the center of the hub.

2,163,894
HAIR CURLER
Clara Seidel, Rochester, N. Y.
Application March 14, 1938, Serial No. 195,719
4 Claims. (Cl. 132—40)



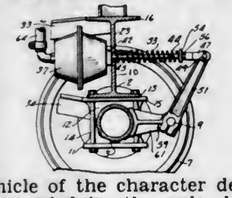
1. A hair curler comprising a longitudinally slitted tubular mandrel, a flexible winding pad extending from the slit in said mandrel, an enlargement on the inner edge of said pad on the inside of said mandrel to keep said pad from pulling out of said slit, an elastic anchored within said mandrel near one end thereof and extending thru and out of the other end thereof, and an attaching member on the free end of said elastic.

2,163,895
ENGINE SPEED AND REVERSE CONTROL
Dana R. Staples, Ridley Park, Del.
Application March 26, 1937, Serial No. 133,192
4 Claims. (Cl. 74—483)



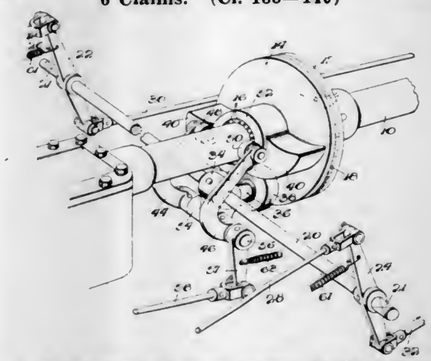
1. In combination, a control lever normally movable in one direction from a given position, a second lever normally movable in opposite directions from an off position to operating positions, and means for mechanically interlocking said levers whereby said first lever may be moved away from its given position when said second lever is in any one of its positions but after said first lever is moved then said second lever is inhibited from moving from an operating position to an off position although both of said levers are otherwise independently movable subject only to said inhibition.

2,163,896
BRAKE CYLINDER MOUNTING FOR VEHICLES
Barney Sugarman, Fort Smith, Ark., assignor to Fort Smith Structural Steel Company, Fort Smith, Ark., a corporation of Arkansas
Application November 30, 1936, Serial No. 113,282
3 Claims. (Cl. 188—152)



1. In a vehicle of the character described, an axle, wheels carried by the axle, brakes controlling rotation of the wheels, an apertured sill member supported upon the axle and extending parallel therewith, a reach pole connected with the sill member and extending forwardly therefrom, radius rods connecting the outer ends of the sill member with the reach pole, brake cylinders carried on the front of the sill member and within the respective angles formed between the reach pole and sill member whereby the radius rods, reach pole and sill member form a substantially triangular-shaped guard for protecting the brake cylinders, operating rods projecting from the cylinders and extending through the apertures in the sill member to the rear side thereof, brake shafts having rotary support on the rear side of the axle, and levers on the brake shafts having connection with the operating rods.

2,163,897
BRAKE
Cecil H. Taylor, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application November 9, 1936, Serial No. 109,962
6 Claims. (Cl. 188—140)



1. A mechanical servo power brake comprising, a wheel brake operating cross shaft, a power

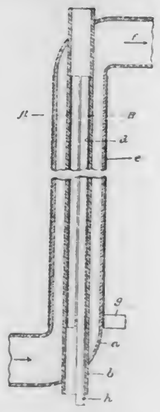
shaft transverse thereto and spaced therefrom, a friction disc fixed to said power shaft, a freely-rotatable friction disc axially movable into and out of engagement with said fixed disc, a cam carried by said rotatable disc, a crank arm secured to said cross shaft having a follower engaging said cam, a second crank arm on said cross shaft and a control lever extending substantially parallel to and fulcrumed on said second crank arm and adapted to axially move said rotatable disc into varying degrees of frictional engagement with said fixed disc.

2,163,898

PROCESS FOR THE PRODUCTION OF HYDROGEN PEROXIDE

Johannes Antonius Lebuinus van der Lande, Deventer, Netherlands, assignor to Naamlooze Vennootschap Industrieele Maatschappij Voorheen Noury & Van Der Lande, Deventer, Netherlands, a company of the Netherlands

Application August 4, 1937, Serial No. 157,417
In the Netherlands August 14, 1936
6 Claims. (Cl. 23—207)



1. Process for the production of hydrogen peroxide which comprises subjecting a solution capable of yielding hydrogen peroxide on heating to the action of a high frequency electric field having a frequency of at least of the order of magnitude of one million alternations per second and arising from electrical conducting means out of direct contact with the solution being subjected to said field.

2,163,899

METHOD OF PREVENTING FORMATION OF ICE CRYSTALS IN REFRIGERANTS

Walter O. Walker and William R. Rinelli, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

No Drawing. Application June 29, 1938, Serial No. 216,596
7 Claims. (Cl. 62—178)

1. The method of preventing the formation of ice crystals in a compression type of refrigerating system working with a hydrocarbon halide refrigerant which comprises adding to said refrigerant an ice crystal solvent selected from the group consisting of butyl carbitol (diethylene glycol mono butyl ether), butyl cellosolve (glycol butyl ether), carbitol (diethylene glycol mono ethyl ether), cellosolve (ethylene glycol mono ethyl ether), diethyl carbitol (diethylene glycol diethyl ether), isopropyl cellosolve (ethylene glycol isobutyl ether), methyl carbitol (diethylene glycol mono methyl ether), and methyl cellosolve (ethylene glycol mono methyl ether) in sufficient amount to prevent formation of ice crystals under minimum temperature operating conditions and general operating characteristics of the refrigerating machine and up to about 10% by volume of the refrigerant.

2,163,900

METHOD OF PREVENTING FORMATION OF ICE CRYSTALS IN REFRIGERANTS

Walter O. Walker and William R. Rinelli, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

No Drawing. Application June 29, 1938, Serial No. 216,597
8 Claims. (Cl. 62—178)

1. The method of preventing the formation of ice crystals in a compression type of refrigerating system working with a hydrocarbon halide refrigerant which comprises adding to said refrigerant an ice crystal solvent selected from the group consisting of amyl acetate, butyl acetate, butyl acetyl ricinoleate, butyl lactate, carbitol acetate, ethyl acetate, ethyl lactate, isopropyl acetate, methyl acetate, methyl cellosolve acetate, methyl lactate, diacetone (acetone free), methyl isobutyl ketone (hexone) and misityl oxide in sufficient amount to prevent formation of ice crystals under minimum temperature operating conditions and general operating characteristics of the refrigerating machine and up to about 10% by volume of the refrigerant.

2,163,901

PHOSPHORUS PENTOXIDE DRIER

Walter O. Walker and William R. Rinelli, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

No Drawing. Application August 25, 1938, Serial No. 226,838
9 Claims. (Cl. 252—2.5)

2. A dehydrating agent consisting of a pulverulent mixture of phosphorus pentoxide and comminuted inert material, substantially all of said phosphorus pentoxide being superficially distributed and directly adhered to the surface of the comminuted material and without having any substantial loose unadhered amounts of phosphorus pentoxide.

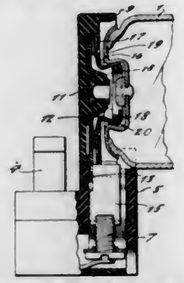
2,163,902

LAMP CONNECTOR

Joseph Wertzheiser, New York, N. Y., assignor to Leviton Manufacturing Company, Brooklyn, N. Y., a corporation of New York

Application January 11, 1938, Serial No. 184,353
2 Claims. (Cl. 173—328)

1. A connector including an insulating cover having a recess, a conductor plate placed in said recess and having an integral line contact extending through a slot in said cover, a rivet embedded in a wall of said cover and extending through and over said conductor plate to hold it to said cover, a lamp-holding plate having a group of circularly disposed upstanding spring fingers, a spring within the group of said fingers and arranged to normally hold said fingers out-



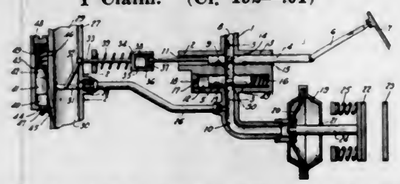
wardly, and clamping means holding the two plates in good electrical contact with each other.

2,163,903

AUTOMATIC CONTROL OF CLUTCH AND THROTTLE ACTUATION OF AN AUTOMOTIVE VEHICLE

Ralph S. Whittington, Springfield, Mass., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana

Original application July 15, 1932, Serial No. 622,703. Divided and this application November 1, 1937, Serial No. 172,169
1 Claim. (Cl. 192—.01)



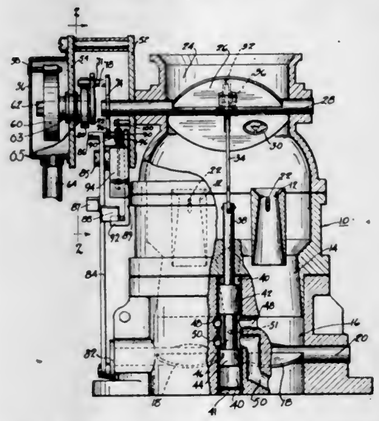
In an automatic control means for the clutch of an automotive vehicle, the combination with the intake system, the carburetor riser and throttle valve, and a mechanism for controlling the throttle valve, of a pressure responsive means for releasing the clutch, means providing a passage between said intake system and said pressure responsive means, a main valve in said passage operable to control communication between said passage and said intake system and between said passage and the atmosphere, an auxiliary valve in said passage for closing the passage between atmosphere and said pressure responsive means, means operating, when the aforementioned mechanism is released, to actuate said main valve and said auxiliary valve to provide direct communication between said intake system and said pressure responsive means to release the clutch, means operating upon the actuation of said throttle valve control mechanism to actuate said main valve to close said passage from the intake system and open said passage to the atmosphere whereby said clutch is moved toward engaged position, means operative by conditions accompanying the partial engagement of said clutch to close said auxiliary valve, and a conduit connecting said passage between said auxiliary valve and said pressure responsive means to said carburetor riser through a port, said port having all of its area exposed to vacuum in said intake system when said throttle valve is closed, but allowing its area to be exposed to pressure in said carburetor riser on the opposite side of said throttle valve as said throttle valve is opened, and means controlling the capacity of the path formed by said conduit and said port.

2,163,904

CARBURETOR

Albert H. Winkler, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana

Application September 18, 1935, Serial No. 41,033
1 Claim. (Cl. 261—39)



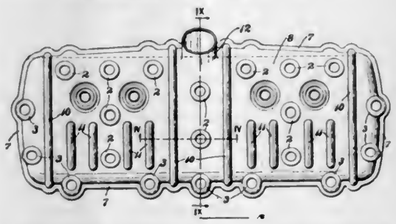
In an internal combustion engine carburetor, a pressure responsive choke valve, temperature responsive means urging the choke valve closed, a lost motion connection between the temperature responsive means and the choke valve, yielding means connected in series with the temperature responsive means and mounted concentrically therewith urging the choke valve closed, and means controlled by throttle position for rendering said last mentioned means inoperative to close the choke valve beyond a predetermined point.

2,163,905

CYLINDER HEAD STRUCTURE

Irving E. Aske, Muskegon, Mich., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich., a corporation of Michigan

Application September 20, 1937, Serial No. 164,693
3 Claims. (Cl. 123—173)



1. An engine cylinder head comprising a cylinder closing member of cast metal adapted to be located over and attached to the upper end of an internal combustion engine cylinder block, said cast metal member having upwardly projecting lugs with vertical openings therethrough adapted for the passage of bolts for connecting the cylinder head to said engine block, and a sheet metal member spaced from the upper side of said cast metal member provided with turned flanges around its edges embedded in the peripheral portions of the cast member and at the upper

side of said cast metal member, said sheet metal member surrounding the upper end portions of said lugs and embedding therein, as specified.

2,163,906
ARCH SUPPORT
Adelard J. Cote, Spokane, Wash.
Application March 31, 1938, Serial No. 199,268
2 Claims. (Cl. 36—8.5)



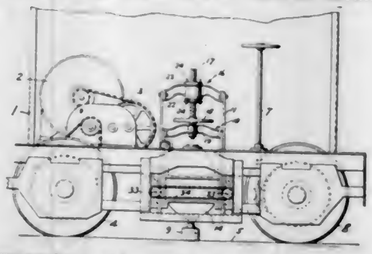
1. An arch support comprising a body having upper and lower walls formed of sheets of pliable material having their marginal edges secured to each other and forming feathered edges for the body, a filling of flaky absorbent material for the space between the walls of said body adapted to be compressed when moistened, the rear end of said body and opposite side edge portions thereof being curved upwardly to form flanges for preventing transverse and forward shifting of the support when in use, said inner flange gradually increasing in height toward the front end to provide an instep-engaging portion, a tongue carried by the front end of the instep-engaging portion and extending therefrom transversely across the body and curved longitudinally for engaging across the front portion of a foot, and the said instep-engaging portion having its front edge formed with a curved recess for accommodating a bunion.

2,163,907
HUMIDITY CONTROL
Anson W. De Vout, La Grange, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 13, 1936, Serial No. 79,593
2 Claims. (Cl. 99—161)

1. The method of controlling effective humidity of a refrigerated chamber which comprises introducing moisture into the atmosphere periodically, ascertaining the moisture absorption rate of hygroscopic material in the chamber by periodic measurement of the moisture content of hygroscopic control material maintained in the chamber, and continuing the introduction of moisture into the atmosphere of the chamber at a sufficient rate to keep completely satisfied the moisture absorption demands of the hygroscopic control material.

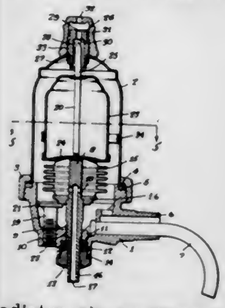
2,163,908
TRACK RAIL GRINDING MACHINE
Walter Hobson, Philadelphia, Pa., and Homer H. Woodrow, Milford, Del.
Original application October 3, 1936, Serial No. 103,811. Divided and this application July 18, 1938, Serial No. 219,750
5 Claims. (Cl. 51—178)

1. For a track rail grinding machine mounted on a railway car and having motor driven grinding wheels of which the faces confront the rail heads, units each comprising, in combination, upright yoke frame slidable in respect to each other and of which one is relatively fixed in respect to the car, a motor frame rockably carried by the inner yoke frame, and power driven means for



continuously rocking the motor frame in respect to the inner frame.

2,163,909
AIR VENTING AND VACUUM MAINTAINING VALVE
Lester Lawrence Lasher, Beachmont, Walter Robinson Chesley, Somerville, and Joseph Aloysius Parks, Jr., Milton, Mass., assignors, by mesne assignments, to Anderson Products, Incorporated, a corporation of Massachusetts
Application August 11, 1934, Serial No. 739,424
15 Claims. (Cl. 236—63)

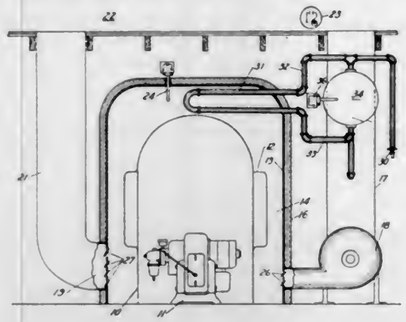


1. In a radiator air venting valve, the combination of a casing having a vent, an adjustable stem mounted in the base of said casing, a bellows mounted on said stem, an air passage through said stem to allow atmospheric pressure to reach the interior of said bellows, and buoyant means between said bellows and vent operable to close said vent when said casing is filled with water to a predetermined extent.

2,163,910
HEATING AND CONTROL MEANS
Emert J. Lattner, Cedar Rapids, Iowa
Application December 28, 1936, Serial No. 117,815
11 Claims. (Cl. 237—19)

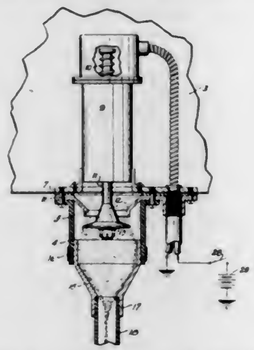
7. In a heating system, a casing closed at the upper portion thereof to form a chamber for trapping heat therein to thus provide a heat reservoir, a furnace and thermostatic means actuated by changes in temperature in the heating reservoir for maintaining the temperature and thus the quantity of heat in the reservoir at a certain predetermined value, inlet and outlet ducts forming a part of an otherwise conventional hot-air heating system connected to the lower portion of the casing, a hot water pipe passing through the heat reservoir, means for causing a flow of water through the hot water pipe, and means for causing a flow of air through the inlet duct, the heat reservoir and the outlet duct,

whereby both air and water issuing from the furnace casing and heat reservoir are hot at once



without the necessity of waiting for incoming air and water to be heated and withdrawn.

2,163,911
SANDING DEVICE FOR VEHICLES
John B. Lintern, Cleveland, Ohio, assignor to The Lintern Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 30, 1936. Serial No. 108,439
4 Claims. (Cl. 291—44)



1. A discharge conduit for a sander for the purposes described comprising a flexible rubber hose which terminates at its discharge end at the upper end portion of a depending, elongated, flexible rubber guard portion of greater inside cross section than the inside cross section of the adjacent portion of the hose, and said guard portion having an internal inwardly projecting peripheral rib in spaced relation to its ends for preventing the passage of moisture upwardly along the inner walls of the guard portion.

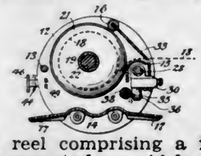
2,163,912
TREATMENT OF OLEO OIL
Harold S. Mitchell, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 24, 1936, Serial No. 112,564
4 Claims. (Cl. 87—12)

1. The method of stabilizing oleo oil which comprises alkali refining oleo oil and thereafter adding thereto and incorporating therewith a quantity of hydrogenated refined soya bean oil.

2,163,913
FOOD COMPOSITION
Theodore John Otterbacher, Zion, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 18, 1938, Serial No. 219,909
2 Claims. (Cl. 99—139)

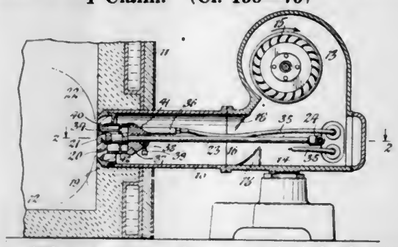
1. A grease-containing icing for application to food products containing, as ingredients thereof, destarched corn gluten and sugar.

2,163,914
FISHING REEL
Victor E. Pearson, Buffalo, N. Y.
Application March 15, 1938, Serial No. 196,027
10 Claims. (Cl. 242—84.5)



1. A fishing reel comprising a frame, a line spool rotatably mounted on said frame, a double-thread screw mounted on said frame and operatively connected with said spool, a traveler running lengthwise on said screw and having a guide loop for directing the line relative to said spool, a longitudinal guide bar mounted on the frame and engaged by said guide loop, and means for intermittently turning said traveler on said screw and increasing the frictional engagement of said guide loop with said guide bar.

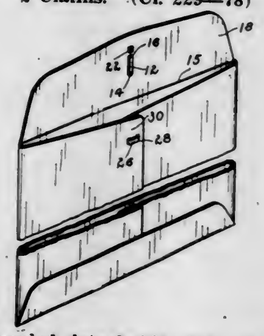
2,163,915
OIL BURNER
Charles A. Reif and Allan F. Reif, Buffalo, N. Y., assignors to Reif-Rexoil, Inc., Buffalo, N. Y., a corporation of New York
Application May 28, 1937, Serial No. 145,274
1 Claim. (Cl. 158—76)



An oil burner comprising an air tube having a rear air inlet and a front outlet for a combustible mixture, a fuel oil spray nozzle arranged centrally in the front part of said tube, a tubular distributor surrounding the spray nozzle and separated on its inner side therefrom by an annular cylindrical space which is wholly unobstructed and also separated on its outer side from the inner side of said tube by an annular passage, said distributor being closed at its rear end and open at its front end and provided in its side with openings and having its wall of cylindrical form from the rear to the front end thereof, whereby part of the air entering said inlet of the air tube moves forwardly through this outer annular passage and produces a suction effect on the fuel spray issuing from the nozzle and another part of the air passes inwardly through the openings in said distributor to the interior thereof and thence forwardly around the nozzle and produces a con-

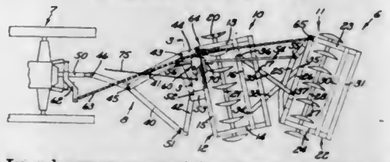
centrating effect of the air on the central part of the fuel spray so as to equalize the supply of air relative to the central and side parts of the fuel spray and cause the mixture of air and fuel to burn uniformly.

2,163,916
CLOSURE FOR ENVELOPES
Verel C. Ross, Seattle, Wash.
Application August 10, 1936, Serial No. 95,243
2 Claims. (Cl. 229—78)



1. A concealed detachable clasp comprising a loop-portion on the rear outer face of an envelope, and a resilient flexible tongue having its lower end attached at the inner side of and adjacent the free edge of a complementary flap, the free end of said tongue being extended through the loop-portion and projecting toward the upper edge of the envelope.

2,163,917
OFFSET DISK HARROW
Lorne Sanders, Redlands, Calif., assignor to Killefer Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application June 9, 1938, Serial No. 212,761
8 Claims. (Cl. 55—83)



1. In a harrow comprising front and rear gangs pivotally connected together and releasable latch means for fixing said gangs in one angled position, means for swinging said gangs into an oppositely angled position comprising draft transmitting means movable relative to said front gang and connected to said rear gang, and means disposed on said front gang and responsive to movement of said draft transmitting means for releasing said latch means.

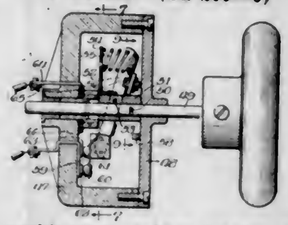
2,163,918
IMAGE SCREEN FOR BRAUN TUBES
Erich Schwartz, Berlin-Zehlendorf, Germany, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application June 6, 1936, Serial No. 83,977
In Germany June 14, 1935
2 Claims. (Cl. 250—164)

1. A cathode ray device having a light transmitting image screen comprising a support, a layer of screen material including a mercury-iodide and an intermediate layer of poor heat



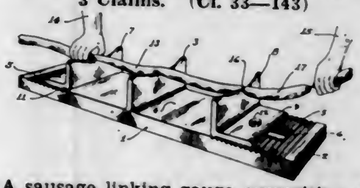
conducting material between said support and said layer of screen material.

2,163,919
SWITCH
David T. Siegel, Chicago, Ill.
Application August 31, 1936, Serial No. 98,626
6 Claims. (Cl. 200—6)



1. In combination, a base having a series of switch points, a cover, a shaft axially arranged relative to the points, a sweep arm in the form of a lever of the first order pivoted to said shaft for oscillation thereon and rotation thereby, said arm carrying a contact, a bracket projecting from and rotatable with said shaft, a spring acting between said bracket and the end of the arm opposite to the contact, and a series of cams carried by the cover acting on said arm, causing the same to oscillate as a preliminary to movement of the arm away from a switch point.

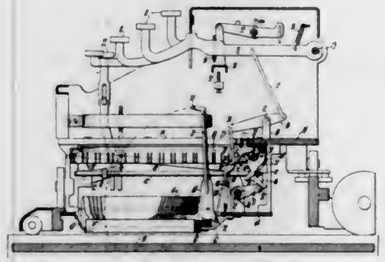
2,163,920
LINKING GAUGE
Alonzo Standlee, Handley, Tex., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application January 4, 1937, Serial No. 119,039
3 Claims. (Cl. 33—143)



3. A sausage linking gauge comprising a base, a gauge member fixedly mounted on said base, a pair of gauge members movably mounted on said base for adjustment relative to one another and to the fixed gauge member and means for fixedly securing each of the movable gauge members to said base, each of the gauge members having an elongated gauge edge concaved in a vertical plane and being adapted for withholding one end of a sausage link between the ends thereof.

2,163,921
TYPEWRITING MACHINE
Burnham C. Stickney, Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application May 4, 1935, Serial No. 19,798
14 Claims. (Cl. 197—77)

2. The combination of a system of keys, a system of type-bars, a segmental system of two sets of jacks, one jack for each type-bar, each key being connected to two jacks, sets of fulcrums for said jacks, a case-shift key, and a segmental



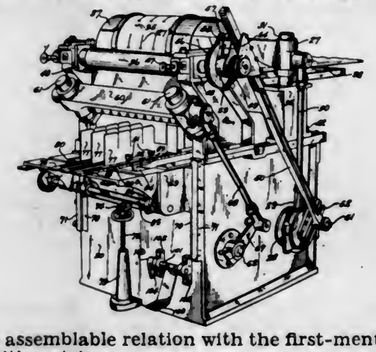
annular shift-bar operable by said case-shift key, the sets of jack-fulcrums being shiftable by said annular bar, one set being shifted in one direction while the other set is shifted in the opposite direction.

2,163,922
PRODUCTION OF METAL HYDROXIDES COLLOIDALLY SOLUBLE IN WATER
Fritz Stoewener, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
No Drawing. Application March 6, 1935, Serial No. 9,589. In Germany March 29, 1934
11 Claims. (Cl. 252—6)

1. The process of producing reversible colloidal metal hydroxides which comprises causing a salt of a trivalent metal selected from the group consisting of aluminium, chromium and iron to act on an "ammonia substance" capable of binding the acid radical of the metal salt, said acid radical being capable of being bound by said ammonia substance, with the formation of trivalent hydroxide in an amount deviating from the stoichiometrical ratio of the components, freeing the hydroxide obtained from the salt formed during the decomposition and peptizing it by treating with a peptizing agent in an amount forming only a fraction of the amount stoichiometrically necessary for the formation of the normal metal salt and subjecting the mass to at least one cautious drying operation not impairing the water solubility of the product, said cautious drying including the application of mild heat to said mass, said freeing and said peptizing being performed in any desired sequence, and the first of said cautious drying operations being performed at any desired stage between the formation of the hydroxide and the end of the peptization.

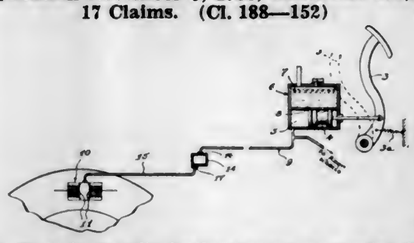
2,163,923
PARTITION FABRICATING MACHINE
Daniel Railing Vail, Wilmette, Ill., and Charles G. Dauber, Oshkosh, Wis.
Application February 11, 1938, Serial No. 189,964
9 Claims. (Cl. 93—37)

1. In a partition fabricating machine, in combination, sheet feeding rollers intermittently rotatable, intermittently and jointly operating reciprocable sheet slotting punches, an intermittently reciprocable knife to sever slotted portions of the sheet into partition strips, and means for supporting and spacedly feeding sets of established lengthed and previously formed partitions



into assemblable relation with the first-mentioned partition strips.

2,163,924
HYDRAULIC BRAKING SYSTEM
Theodore W. Vickers, Los Angeles, Calif.
Application November 9, 1936, Serial No. 109,849
17 Claims. (Cl. 188—152)

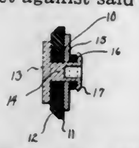


1. In a hydraulic brake system, a master liquid pressure forming cylinder unit provided with a vapor release bypass, a spring resisted movable piston for building up liquid pressure in said master cylinder upon the compression stroke of the piston, braking mechanism, secondary receiving cylinder units, spring resisted pressure responsive pistons in said secondary cylinders for actuating a braking mechanism, hydraulic connecting lines, and one or more vapor trap units connected between said lines consisting of enlargements in said lines, said enlargements having liquid capacity at least equal to the liquid capacity of the secondary receiving cylinders, the line connections in said vapor trap units being located substantially at the top, and substantially at the bottom respectively, the top connections being nearest the master cylinder, said units being spaced from each other at intervals substantially equal to or less than the distance which the liquid moves during a stroke of the pressure forming piston.

2,163,925
FAUCET
Paul Wagner, Burlington, Wis.
Application June 13, 1938, Serial No. 213,406
1 Claim. (Cl. 251—144)

In a faucet, a casing having an internal valve seat and an internal shoulder spaced from the valve seat, a valve body including a valve disc, a wear-plate engaging one side of the disc, a holding plate engaging the other side of the disc, a shank carried by the wear-plate extending through the valve disc and the holding plate, an expansion coil spring disposed in the valve body

having its rearmost convolution detachably fitted on the shoulder, and its furthermost convolution clinched about the shank, the inner end of the shank being upset against said foremost convolu-



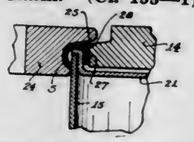
tion whereby to connect the wear-plate, the valve disc, the holding plate, and the spring together, and intermediate convolutions of said spring engaging the inner surface of the casing, as and for the purpose specified.

2,163,926
MEANS FOR APPLYING METAL FERRULES TO FIBER CONTAINERS

Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Original application May 29, 1936, Serial No. 82,433. Divided and this application February 23, 1937, Serial No. 127,256

1 Claim. (Cl. 153—1)



In a can seaming device for applying a cupped fibrous end to a fibrous tubular body by means of a metallic ferrule, the ferrule comprising a vertical wall adapted to fit within the cupped fibrous end and a flanged wall bent outwardly from the vertical wall, the flanged wall being adapted to extend above the end edges of the cupped end and tubular body and beyond the outer wall of the tubular body to provide a portion adapted for crimping to the outer wall of the tubular body, the edge joining the vertical wall with the flanged wall providing a curved outer surface, the combination of a seaming chuck adapted to engage the inner surface of the vertical wall and provided with an outwardly curved upper peripheral surface designed to engage the curved edge joining the vertical wall with the flanged wall and to press the ferrule and fibrous end within the end of the tubular body, and a seaming roll rotatably mounted in operative relation with the seaming chuck provided with an extended conical surface adjacent its upper peripheral edge, the conical surface being operable to engage the portion of the flanged wall extended beyond the tubular body to cause it to assume a concave curvature downwardly before crimping to the outer wall of the tubular body and simultaneously to engage the portion of the flanged wall extended above the end edges of the cupped end and tubular body to prevent upper bowing of the last-mentioned portion of the flanged wall during the crimping operation.

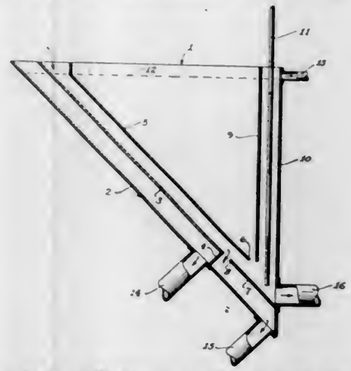
2,163,927
SEPARATION APPARATUS

David M. Wright, Agricola, Fla., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application April 23, 1937, Serial No. 138,671

6 Claims. (Cl. 209—12)

6. In an under-liquid screening device including a liquid receptacle and means for maintaining a body of liquid in the receptacle at a predetermined level, an angularly disposed screen mounted within the receptacle and below the liquid level, a guard plate mounted above the screen and in substantially parallel relationship therewith, the guard plate being extended substantially over the entire area of the screen and to the line of introduction of material to the



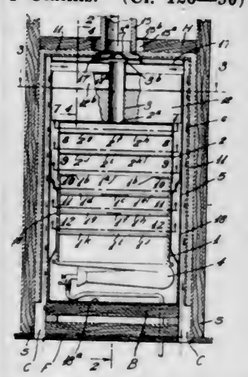
screen and sufficiently close to the screen to prevent the material from surging through the body of liquid and an opening permitting passage of the body of liquid to either side of the guard plate at a point below the lower limit of the screen.

2,163,928
WALL FURNACE

John S. Andrews, Los Angeles, Calif.

Application June 18, 1937, Serial No. 148,932

4 Claims. (Cl. 126—90)



1. In a wall furnace, a relatively wide and extremely thin heater casing provided with zigzag current directing baffles, a burner positioned at the lower end thereof arranged to direct heat upwardly through said baffles, said casing open at its upper end, a heat distributing casing supported around the upper end of said heater casing and provided with similarly arranged baffles, and an orifice at its upper end, a deflector positioned above said heat distributing casing provided with a downwardly depending shiftable member and adapted to be shifted on a pivotal axis for directing the hot air from said heat distributor, an outer casing spaced from said heater casing and heat distributing casing provided with inlet grilles near its lower end and outlet grilles near its upper end for circulating air past the wall of said heater casing and said heat distributing casing and through the rooms on opposite

sides of the heater, and metallic partitions and deflectors interposed between said heat distributing casing and outer casing.

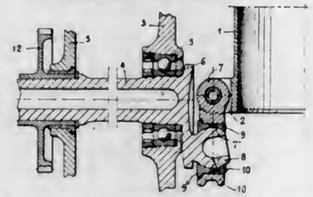
2,163,929
CONTROL OF THE SLEEVE VALVES OF ENGINES

Marius Jean-Baptiste Barbarou, Neuilly-sur-Seine, France

Application July 8, 1937, Serial No. 152,592

In France July 10, 1936

2 Claims. (Cl. 123—81)



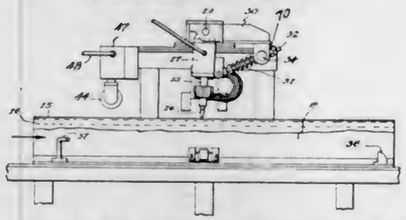
1. In an internal combustion engine having a sleeve valve and crankshaft for actuating the same, connecting means between the valve and crankshaft comprising a lever hinged to the valve, a crank extension on the crank shaft, and a ball and socket connection between the lever and crank extension, the lever being so hinged to the sleeve valve that oscillation is possible in the longitudinal plane of the sleeve valve only.

2,163,930
WELDING MACHINE

Edward G. Beiderman, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 6, 1937, Serial No. 157,769

8 Claims. (Cl. 219—4)



8. In an electric welding machine for making a line of spot welds, means for supporting and moving the work including one electrode which travels continuously in one direction and a companion electrode which is continuously reciprocating while in operation, said companion electrode adapted to momentarily engage and grip the work and travel along with the work and the electrode and then, upon the reverse movement of the electrode, release the work, means for automatically returning the electrode to its initial position before the electrode again moves into contact with the work in its repeat operation, whereby a line of spot welds is afforded whose spacing is dependent upon the speed of travel of the work and the rate of reciprocation of the electrode.

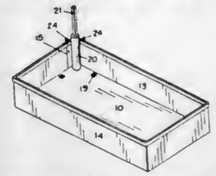
2,163,931
TRAY, DRAWER, OR THE LIKE

Arnold H. Bettenhausen, Princeton, Nebr., assignor of one-half to Fuller Arnold Austin, Lincoln, Nebr.

Application March 24, 1938, Serial No. 197,852

4 Claims. (Cl. 45—95)

1. A tray having side and end walls arranged in rectangular relation, a floor in said tray, a tubular hinge member projecting upwardly from said floor at a corner thereof, a stationary vertical shaft passing through said tubular hinge



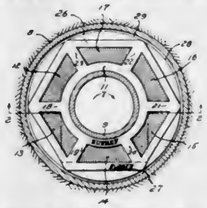
member whereby said tray may be swung about the vertical axis of said shaft, and adjustable means for correcting the tendency of said tray to sag at the free corner thereof.

2,163,932
CASING PROTECTOR

William I. Bettis, Los Angeles, Calif., assignor to Estelle B. Kleaver, Burbank, Calif.

Application December 6, 1937, Serial No. 178,297

3 Claims. (Cl. 308—4)



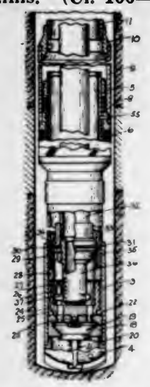
1. A device of the character described, made of rubber-like material and having continuous co-axial walls from end to end; the walls being spaced by a plurality of quasi-helical vanes; and the inner wall being adapted for frictionally gripping a drill-pipe.

2,163,933
STRAINER AND PACKER SETTING DEVICE

Cicero C. Brown, Houston, Tex.

Application December 19, 1936, Serial No. 116,687

10 Claims. (Cl. 166—20)

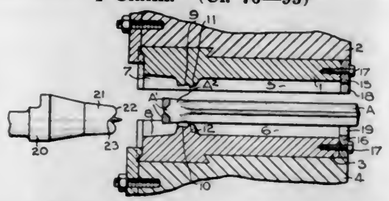


1. In combination, a strainer and packer assembly including a strainer, a valve housing thereon, a liner above said strainer and a plurality of packers spaced apart on said liner above said strainer; and means to set said assembly including a string of tubing, means thereon adjacent the lower end thereof to seat rotatably within said valve housing, and means on said string adjacent the upper end of said assembly to engage said setting string with said assembly to prevent relative upward movement of said string in said assembly.

2,163,934
COPY SHEET
Howard E. Collins, La Grange, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
No Drawing. Application March 5, 1938, Serial No. 194,112
11 Claims. (Cl. 41—31.6)

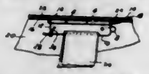
1. The process of reproducing designs which comprises applying a design formed of a soluble dye to a sheet having uniformly distributed on its surface a glycerin miscible solvent having a greater solvent power than glycerin for said dye, and contacting the design on said sheet with a hectograph copy mass to transfer the design to said mass.

2,163,935
DEVICE FOR FABRICATING DETACHABLE DRILL BITS
Charles Edward Cook, South Porcupine, Ontario, Canada, assignor to International Detachable Bits & Equipment, Limited, Timmins, Ontario, Canada, a corporation of Ontario, Canada
Application September 23, 1937, Serial No. 165,243
1 Claim. (Cl. 76—95)



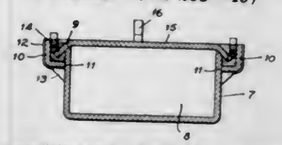
In a device for forming detachable drill bits from a drill steel stock which has previously had a bit cutter roughly formed on an end thereof, means for forming the end of the drill steel stock provided with the roughly formed bit into a detachable bit with a diametrical tongue of dovetail cross-section on the end remote from the cutter comprising a divided combined clamping and forming die between the parts of which the drill steel stock is inserted, said parts of the die having major coacting bit forming recesses including minor dovetail tongue forming recesses extending from the major recesses, and means cooperating with the above means and functioning synchronously therewith for sizing such detachable bit including the dovetail tongue and sharpening its cutter all in one pass of the drill steel stock to the cooperating means comprising a reciprocable dolly disposed coaxially with the die and insertable into the bit forming recesses therein.

2,163,936
BRASSIÈRE STRAP HOLDER AND THE LIKE
Maud E. Cunningham, Huntington Park, Calif.
Application June 20, 1938, Serial No. 214,654
4 Claims. (Cl. 24—73)



1. In the device of the class described, adapted for supporting and holding the undergarment strap in place and to the shoulder member at the underside seam section of the dress garment, comprising a holder means having a top cross member section which is attached to the said shoulder member at the underside seam section of said dress garment, a mid-section member extending downwardly out of one end of said top cross member having a loop, the other end extending downwardly in parallel relation to said mid-section and terminating with a hook member, a bottom cross member laying in parallel relation to said top cross member, one end extending out of the said mid-section member and the other end adapted for engaging the said hook member for supporting and holding the undergarment shoulder strap member in place, and safety knob means associated with the exposed ends of said hook member and said bottom cross member for preventing and safe guarding the scratching or injuring the flesh of the dress wearer.

2,163,937
ANNEALING BOX
Kenneth J. Deahl, Pittsburgh, Pa., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 14, 1937, Serial No. 159,079
2 Claims. (Cl. 263—49)



1. The combination with an annealing box open at its upper side, of a sand trough disposed exteriorly of the box and provided with inwardly-projecting stop shoulders, a cover adapted to rest upon the box and having edge portions thereof inclined downwardly into the trough, below said shoulders and engaging the edges of the box, and locking keys interposed between said stop shoulders and the upper surface of said inclined edge portions of the cover, parts of the inclined portions being cut away at the said shoulders to permit vertical placement of the cover.

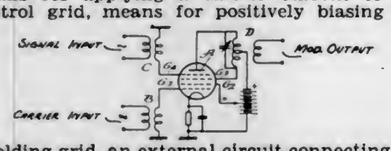
2,163,938
TEMPLATE
John G. Dickson, San Diego, Calif.
Application January 12, 1937, Serial No. 120,229
Renewed November 21, 1938
5 Claims. (Cl. 33—175)



1. In a template, a main stationary supporting member, a plurality of bars shiftably mounted in said stationary supporting member, and a spring clamp member wound around each of said shiftable bars and in connection with said stationary supporting member for separately securing each of said bars relatively to said stationary supporting member.

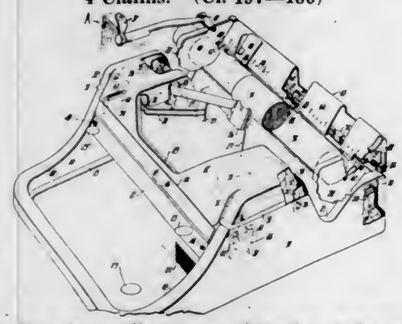
2,163,939
METHOD OF MODULATION
Wolfgang Dillenburger, Berlin-Zehlendorf, Germany, assignor to the firm Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany
Application February 24, 1937, Serial No. 127,513
In Germany March 6, 1936
6 Claims. (Cl. 179—171)

1. In combination with a hexode having an anode, a cathode, a control grid disposed adjacent said cathode, a screen grid disposed adjacent said control grid, a third grid disposed between said shielding grid and said anode, and a fourth distributing grid disposed between said third grid and said anode, a modulating circuit, means for applying a carrier current to said control grid, means for positively biasing said



shielding grid, an external circuit connecting said third grid and said anode comprising a center tapped tunable differential transformer having said center tap connected to an anode potential supply, means for applying a modulating potential to said distributing grid, and a work circuit arranged to abstract energy from said center tapped differential transformer.

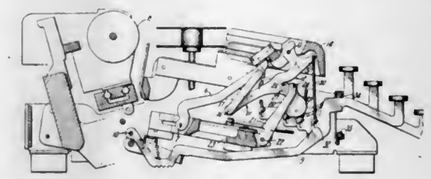
2,163,940
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Original application November 14, 1935, Serial No. 49,682. Divided and this application March 4, 1937, Serial No. 128,898
4 Claims. (Cl. 197—186)



1. In a typewriter, in combination a frame, a carriage mounted thereon, and a mask supported on said frame, and comprising a lower portion that encases the sides, rear and extreme front portion of the frame, a broad top covering the ribbon-spools and the sides of the machine-frame, and a hinge at the back, said hinge comprising vertical brackets symmetrically positioned on the top edges of the inner side walls of the mask, each bracket having a horizontal rearward extension at the top, and apertured lugs secured to the inside rear wall of said cover and pivotally connected with said rear extensions, the rear edges of said brackets forming stops for the lower rear edge of said top, whereby said cover in the open position is prevented from engaging said carriage.

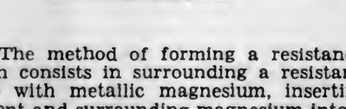
2,163,941
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Original application October 23, 1936, Serial No. 107,175. Divided and this application October 21, 1938, Serial No. 236,224
3 Claims. (Cl. 197—32)

1. In a type-action for typewriters, in combination, a lever and a connecting link, said lever having an elongate slot, said link having a crook slidably engaging said slot, one wall of the slot being formed by a marginal portion of the lever,



said wall having a line of separation forming a tongue projecting alongside the slot and bendable to open or close the slot for removal of the link-crook therefrom.

2,163,942
ELECTRIC HEATING UNIT AND METHOD OF MAKING SAME
William H. Ginder, Haddonfield, N. J., assignor of one-fourth to Frank B. Moore, Upper Darby, Pa.
Application April 13, 1938, Serial No. 201,661
2 Claims. (Cl. 201—64)



1. The method of forming a resistance unit, which consists in surrounding a resistance element with metallic magnesium, inserting said element and surrounding magnesium into a tube, and then forcing through said tube and in contact with said magnesium dry steam under high pressure in combination with a binder consisting of silicate of soda and phosphoric acid in vapor form, to transform the metallic magnesium directly into magnesium oxide and simultaneously maintain said oxide in solid form.

2,163,943
TYPEWRITER MACHINE
William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application October 5, 1936, Serial No. 104,002
1 Claim. (Cl. 197—157)



The combination with a ribbon vibrating mechanism, including a manually operable finger piece; of a plate having a substantially oblong slot through which the finger piece extends, one

wall of the slot having at least three recesses arranged rectilinearly; a comparatively short stop having gently sloping walls separating two of the recesses; a comparatively long stop separating the first named pair of recesses from the next adjacent recess and having an abrupt side facing the pair of recesses to prevent access of the finger piece to the third recess, when moving from the left hand recess to the intermediate recess, the long stop permitting passage of the finger piece between its outer end and the opposite wall of the slot; and a spring to press the finger piece toward that wall of the slot having the three recesses, to insure entry of the finger piece into the selected recess, and to render it necessary for the operator to intentionally exert additional force against the finger piece to move it around the free end of the long stop, that face of the long stop leading to the third recess being gently sloped to guide the finger piece into the third recess, once it has been lifted over said stop.

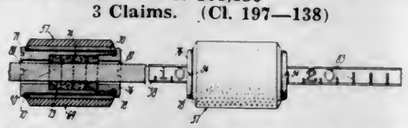
2,163,944

TYPEWRITING MACHINE

William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Original application August 15, 1935, Serial No. 36,272. Divided and this application October 29, 1936, Serial No. 108,130

3 Claims. (Cl. 197—138)



1. In a typing machine having a platen; a supporting rod, a feed roll cooperative with said platen, a sleeve within said feed roll, the periphery of said sleeve forming a journal for said feed roll, said sleeve having a bore forming an annular recess between the rod and sleeve, said bore being reduced, at axially spaced portions, toward the diameter of the rod to form opposite end shoulders for the recess, and a packing of soft material compacted in said recess to grip the rod frictionally to detent said sleeve on said rod, said packing detenting said sleeve against rotation on said rod while the feed roll rotates on said sleeve but being frictionally yieldable along the rod to permit adjustment at will of the sleeve and feed roll along the rod.

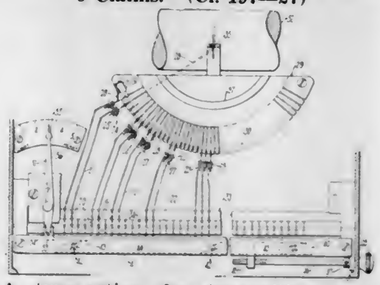
2,163,945

TYPEWRITING MACHINE

William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application July 29, 1937, Serial No. 156,328

9 Claims. (Cl. 197—27)



1. A type-action for typewriting machines comprising, in combination, a type-bar pivotally mounted to swing toward a platen in typing, a pivotally mounted sub-lever including an arm disposed adjacent said type-bar, and means for transmitting the motion of said sub-lever to said type-bar for actuating same in typing and comprising a member slidably carried on said sub-lever arm for lateral movement relative thereto and engaging said type-bar, whereby to accommodate deviations in the respective paths of travel of the type-bar and sub-lever.

2,163,946

DERIVATIVES OF PHENANTHROLINS AND PROCESS OF PREPARING THE SAME

Hans Henecka, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application June 25, 1937, Serial No. 150,331. In Germany July 8, 1936

5 Claims. (Cl. 260—289)

1. Phenanthrolin ether derivatives in which at most two of the positions 2, 2', 4 and 4' (alpha- and gamma-positions with regard to the nuclear nitrogen atoms) are connected with an oxygen atom of a radical selected from the group consisting of alcohol and phenol radicals, two such substituents being connected with different pyridine rings of the phenanthrolin.

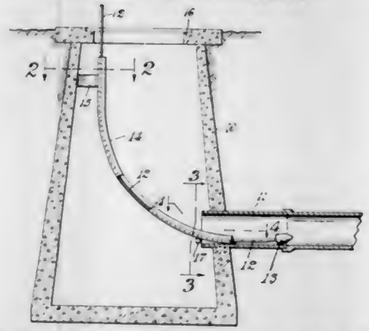
2,163,947

SEWER ROD GUIDE

John Hochberger, Chicago, Ill.

Application November 25, 1936, Serial No. 112,699

4 Claims. (Cl. 15—104.30)



2. A sewer rod guide for use in catch basins comprising a bowed member having an open channel in the concave face thereof within which a flexible sewer rod is operable, said member having a stop at the lower end for limiting movement thereof inwardly of a pipe to be cleaned, and a stabilizing element adjacent the upper end of said member and attached thereto and adapted to rest against the side of the catch basin opposite said pipe for resisting tilting action thereof.

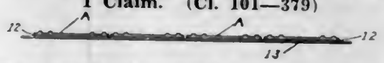
2,163,948

PROCESS OF FORMING A PRINTING ELEMENT

William C. Huebner, New York, N. Y.

Application September 20, 1937, Serial No. 164,721

1 Claim. (Cl. 101—379)



The process of preparing a composed printing form for cylinder presses, which consists in preparing a plurality of printing elements each of which has a thin, inherently flexible metal shell with a metal printing face in relief; fixedly securing, under pressure, a separate, resilient, compressible and flexible back directly to the back of each of said flexible metal shells; and then securing, by an adhesive and under pressure, the said several, individually flexible and resiliently backed printing element shells by imposition according to a predetermined layout, to a single flexible sheet metal base plate adapted to be wrapped around a printing press cylinder whereby to insure relative registration of the several individual composite printing elements on said base plate and in respect to the final printing form and to likewise insure, by means of the several individually flexible, resilient and compressibly backed composite printing elements, obtaining the desired printing pressure by each of said composite printing elements.

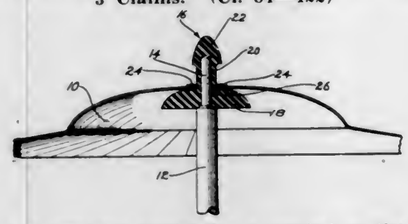
2,163,949

RUBBER HOLDER FOR CYMBALS

Frederick F. Kiemle, Elmwood Park, Ill., assignor to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana

Application December 6, 1937, Serial No. 178,208

3 Claims. (Cl. 84—422)



1. A resilient holder for a cymbal or the like comprising an extended flanged circular lower portion having at the center of its lower face a socket adapted to receive a vertical support and which flange is adapted to support a cymbal resting thereon, a reduced portion projecting upwardly from the center of said flanged portion and adapted to extend through an opening at the center of the cymbal as it rests on the flanged portion, and a somewhat larger bullet-shaped top end portion sufficiently compressible to pass through said opening and which acts to prevent the cymbal from accidentally coming off the holder when the cymbal is struck.

2,163,950

AZA COMPOUNDS OF HIGH MOLECULAR WEIGHT

Karl Koeberle, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 7, 1937, Serial No. 141,245. In Germany May 22, 1936

5 Claims. (Cl. 260—261)

1. An aza compound of the general formula



in which a pyrimidine ring is built up from the position marked x to one of the positions marked y.

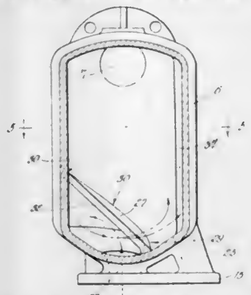
2,163,951

SEPARATOR FOR SELF-PRIMING PUMPS OR THE LIKE

Harry E. La Bour, Elkhart, Ind.

Application November 5, 1937, Serial No. 172,945

6 Claims. (Cl. 103—113)



1. For use as a part of a self-priming centrifugal pump, a separator comprising a tanklike substantially vertical cylindrical shell having a top outlet to permit the escape of gas during priming and for the discharge of liquid after priming is completed, a vertical inlet at the lower end of said shell, a vane in said shell for causing the vertically entering stream of mixture to travel about the inner periphery of the shell in a horizontal loop, an outlet for the flow of priming liquid from the separator back to the pump, and a baffle disposed in relation to the latter outlet to cause a piling up of the whirling liquid at said latter outlet to seal the same with liquid during priming.

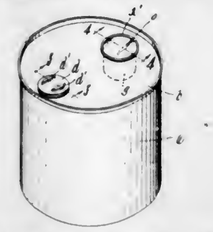
2,163,952

CAN WITH SPOUT PROTECTOR

George A. Leighton, Boston, Mass., assignor to Sexton Can Company Incorporated, Everett, Mass., a corporation of Massachusetts

Application September 12, 1938, Serial No. 229,409

11 Claims. (Cl. 221—24)



1. A can having a discharge outlet, a spout applicable to said outlet for guiding the contents of the can when poured out, a well passing through a wall of the can for containing said spout having an outturned flange on one end, a cover overlying said flange and adapted to be cut out so as to give access to the spout, and means for clamping said cover and flange to the said wall.

2,163,953

SANDING DEVICE FOR OVERHEAD CRANES

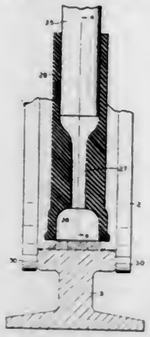
William A. Lintern, Cleveland, Ohio, assignor to The Lintern Corporation, Cleveland, Ohio, a corporation of Ohio

Application October 23, 1937, Serial No. 170,615

3 Claims. (Cl. 291—46)

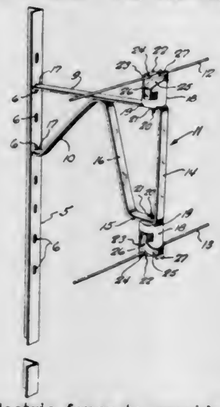
3. In a combination including an overhead rail, a hoist having a wheel arranged to run on the

rail, a sander carried on the hoist with means for supplying sand and a conduit and nozzle to discharge such sand downwardly onto the top face of the rail at a point closely in advance of the wheel; the arrangement of a nozzle device having an outlet in the form of a downwardly facing cup which is materially larger in horizontal cross section internally than the sand passage of the conduit leading to the cup, the bottom edge of the



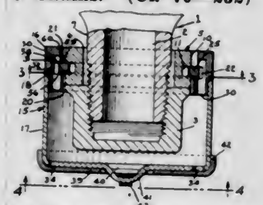
cup being continuous and substantially parallel to the rail face and spaced sufficiently closely thereto throughout its peripheral extent and having its inside width laterally of the rail sufficiently less than the width of said rail face and so related to the spacing aforesaid that sand discharged through the cup onto the rail will assume a natural angle of repose within lateral limits of said rail face irrespective of the height of sand in the nozzle or its conduit.

2,163,954
ELECTRIC FENCE
John A. Lucas, Milwaukee, Wis., assignor to Prime Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 7, 1937, Serial No. 146,780
2 Claims. (Cl. 256—10)



1. In an electric fence to provide an effective barrier against livestock, the combination of: an upright post to be set in the ground and having a plurality of equispaced holes arranged longitudinally thereof; a bracket having divergent spring arms provided with hooks at their extremities engageable in two selected holes of the post, the normal distance between the extremities of said arms with respect to the spacing of the holes being such that the arms are placed under tension upon engagement of their hooks with the two selected holes so that the normal resiliency of the spring arms retains the bracket assembled with the post; the outer portion of the bracket having vertically spaced portions; insulators mounted on said vertically spaced portions, each of said insulators having an open groove substantially at right angles to the plane of the bracket; and clamping means carried by the insulators for holding fence wires in their grooves.

2,163,955
ANTIPILFERAGE DEVICE
Andrew McWalters, Minneapolis, Minn.
Application August 18, 1938, Serial No. 225,560
6 Claims. (Cl. 70—232)

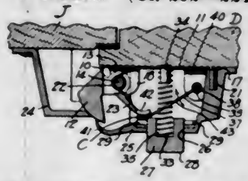


1. An anti-pilferage device comprising a cylindrical body, a cover having an opening therein of a configuration neatly to receive said body, both the body and cover being formed with peripheral grooves, said grooves being positioned on the body and cover respectively so as to be opposite each other when the body and cover are in assembled relation, a compressible ring positioned in the said grooves, said ring being of a size and configuration so as to be completely removed from the groove in said cover when the ring is compressed and so as to lie partly in said cover groove when not compressed, said cover being formed with a plurality of openings parallel with the axis of said cylinder and intersecting said cover groove.

2,163,956
PROCESS OF PREPARING ALKYL XANTHIC DISULPHIDES
August Moeller, Frankfort-on-the-Main-Griesheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application March 11, 1937, Serial No. 130,308. In Germany March 14, 1936
4 Claims. (Cl. 260—608)

1. A process of preparing alkyl xanthic disulphides which comprises oxidizing xanthates of alkali metals in an aqueous solution by means of persulphates.

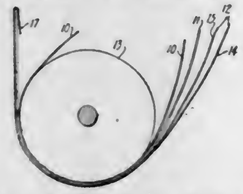
2,163,957
DOOR LATCH
Gahlbeth H. Murrin, Pasadena, Calif., assignor to Adolf Baumgarten, Pasadena, Calif.
Application April 4, 1938, Serial No. 199,908
5 Claims. (Cl. 292—224)



1. A latch comprising a casing having a bolt

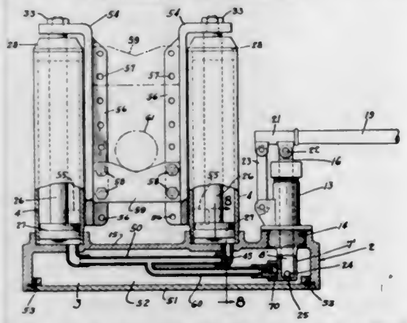
receiving opening and an open back; a bolt; means mounting the bolt in the casing for pivotal movement through said opening; a cover closing the back of the casing; means on the cover coacting with said mounting means to secure the cover to the casing and to prevent displacement of the mounting means; and manually operable actuating means mounted in the casing and operatively associated with the bolt.

2,163,958
REDUPLICATIVE SHEET
Samuel A. Neidich, Ventnor City, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application February 3, 1937, Serial No. 123,792
5 Claims. (Cl. 41—31.6)



1. Means for preparing a reduplicative sheet for direct reduplication, comprising the combination of a transfer medium and the said reduplicative sheet with a transparent tissue work-sheet overlying said sheet, and a coated carbon paper interleaved therewith; whereby impressions made on the tissue will cause carbon reverse prints to be formed on the back of the reduplicative sheet and on the back of the transparent tissue.

2,163,959
LIFTING JACK
Harold Nilson, Wayzata, Minn., assignor of one-fifth to John A. Edeby, Wayzata, Minn., and two-fifths to Emil Berglund, Minneapolis, Minn.
Application March 18, 1937, Serial No. 131,666
5 Claims. (Cl. 254—89)



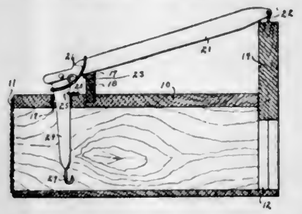
1. In a portable jack of the type for insertion beneath a vehicle axle, the combination of an elongated base to render substantial bearing support for the jack when the latter is in an upright position, a pair of upright power lift mechanisms mounted upon said base and spaced apart a sufficient distance to allow straddling of the axle by the jack, a bridging element adapted to receive and support the vehicle axle, said bridging element having its opposite end portions connected to said lift mechanisms, an actuating mechanism mounted upon the jack for the purpose of transmitting physical forces to the power lift mechanisms so as to elevate the bridge member and the load supported thereon, and an elongated handle member operatively connected to the actuating mechanism and extending beyond the confines of the base, said member enabling handling of the portable jack so that it may be tilted about one of its elongated base edges and shifted so that the bridging element is directly beneath and transverse of the axle to be supported.

2,163,960
ROAD STRIP
John M. Paver, New York, N. Y.
Application December 7, 1936, Serial No. 114,597
5 Claims. (Cl. 200—86)



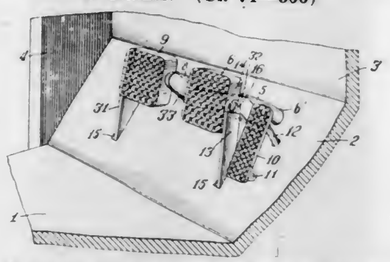
2. A road strip comprising in combination separated upper and lower metallic contact strips having spaced insulating devices between them to hold them normally separated, said strips being adapted to extend across a roadway and to be brought into electrical contact between said insulating devices by pressure of a vehicle wheel, a tubular rubber sheathing having a relatively low height around said strips, said strips being located along the central line of said sheathing inside its tubular portion, said sheathing having a wide base for attachment directly to a road surface and having its side margins tapered to provide thin side edges, said sheathing having a relatively thin wall adjacent the edges of said strips adapted to flex readily under a vehicle wheel running upon said strip, the tapered contour of said side margins permitting a vehicle wheel to cross the same without substantial lateral thrust and the pressure of the wheel upon said margins serving to anchor the strip against lateral movement as the wheel passes over the thicker central portion of said strip.

2,163,961
MOUSE TRAP
Rex M. Pendry, Hartford, Iowa
Application February 5, 1938, Serial No. 188,865
3 Claims. (Cl. 43—61)



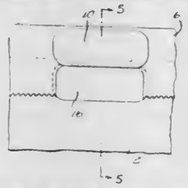
1. In a trap, a housing having a hole in its top, a trap door slidably mounted on said housing capable of closing said housing when in a lowered position, a post secured to the top of said housing, a bar pivoted between its two ends on said post and having its rear end operatively connected to said trap door, a finger pivoted at its upper end to the forward end of said bar and extending downwardly into said housing through said hole, a notch in said finger, a member rigidly secured to said housing capable of being engaged by said notch, and a means for yieldingly holding said finger toward a direction where said notch will engage said last mentioned member.

2,163,962
AUTOMOBILE FOOT PEDAL SAFETY CONTROL
Valerius Pomernacki, Chicago, Ill.
Application August 22, 1938, Serial No. 226,021
10 Claims. (Cl. 74—566)



5. A means for guiding the foot onto the pedal of a foot-operated control lever on an automobile, said means comprising a guide-plate adapted to be secured at its upper end to a side edge portion of the pedal so as to project downwardly and be movable through the foot-board of the automobile.

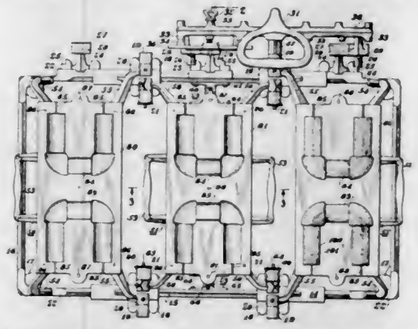
2,163,963
CARRY BAG
George W. Poppe, Brooklyn, N. Y., assignor to Equitable Paper Bag Co. Inc., Brooklyn, N. Y., a corporation of New York
Application December 20, 1938, Serial No. 246,795
2 Claims. (Cl. 229—68)



1. A carry bag having front and back walls and a closing flap at the mouth of the bag, a reenforcing tongue and a locking tongue cut from the bag walls, said tongues hinged at their upper edges adapting them to be folded upwardly, a cut-out in the closing flap, said reenforcing tongue adapted to be folded upwardly prior to folding down of the flap, the locking tongue adapted to be folded upwardly into said cut against the flap when the flap is folded down.

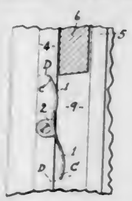
2,163,964
CORE MAKING MACHINE
Coleman Prehoda, Cleveland, Ohio
Application August 16, 1937, Serial No. 159,228
5 Claims. (Cl. 22—10)

1. A machine for forming cores by molding core material between mating core plates comprising, in combination, a support member, a plurality of frame members, pivot means for pivotally mounting each said frame member to said support member, a second frame carried by each said frame member, adjustable means for adjustably fixing the position of the said second frame relative to the said frame member, and engaging means carried by each second frame and adapted to engage one of the said core plates, said engaging means being adjustable to permit movement of the said core plate toward and away from the said second frame and to hold the said core plate at a position away from the said second frame, the arrangement of the frame members and the support member being such that a first core plate engaged to the second frame carried by one of the frame members may be pivotally swung on said frame member into mating position with another core plate carried by the support member and may be removed from



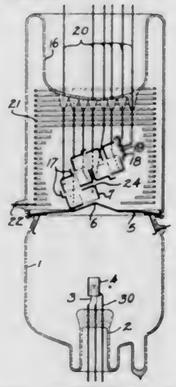
said mating position by consecutively operating said engaging means to move said first core plate away from the said another core plate and toward the second frame carried by said one frame member and by pivotally swinging said first core plate on said frame member back into non-mating position on said support member.

2,163,965
SPRING TIGHTENING MEANS FOR WINDOW SASH
John W. Shriver and Frank S. Hoover, Wichita, Kans.
Application June 14, 1937, Serial No. 148,025
1 Claim. (Cl. 292—17)



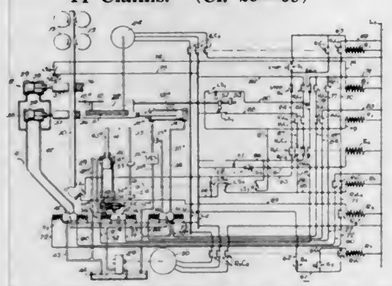
In a spring tightening means for a window sash slidably mounted in a frame, a rockable leaf spring and a flange having a single aperture concentrically positioned therein through which a screw will engage, the flange being integrally joined to one edge of the leaf spring medially of its length and positioned at right angles to the side of the spring, the spring having a curvature where it joins the flange, the concavity of the curvature oppositely positioned to the flange while the outer end portions of the spring each having a curvature opposite to that of the first named curvature, said spring element being attached to the frame by the screw in working relation to the sash and medially of the upper and lower extremity thereof so that when the sash moves in contact with the spring the latter will respond in its function as the sash moves to engagement therewith, and the said spring being adapted to rock on the axis of the aperture in the flange by which means one end of the spring is rocked outward by the sash moving from engagement with the spring to avoid contact with the end thereof when the sash returns to engagement therewith.

2,163,966
BOX ELEMENT MULTIPLIER
Richard L. Snyder, Glassboro, N. J., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware
Application June 22, 1937, Serial No. 149,654
5 Claims. (Cl. 250—175)



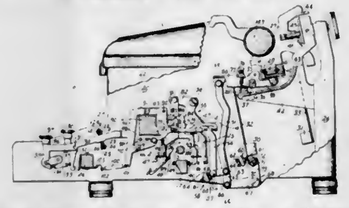
1. An electron multiplier comprising an envelope containing a box-like electron multiplier chamber having a substantially rectangular cross-section, one wall of said chamber being open, the opposite wall and one adjacent wall being solid, the remaining wall being electron permeable, the solid walls being capable of emitting secondary electrons at a ratio greater than unit upon electron impact therewith, and means for directing electrons through said permeable wall to impact said solid walls adjacent their junction.

2,163,967
CUT-OFF MACHINE
Marion L. Strawn and Alexander Oberhoffken, Rockford, Ill., assignors to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application January 12, 1938, Serial No. 184,502
14 Claims. (Cl. 29—69)



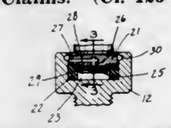
1. A machine for cutting a continuously moving length of stock successively into longitudinal sections of predetermined lengths, said machine having, in combination, a head movable longitudinally of the stock, stock clamping means on said head, means responsive to movement of the previously cut-off end of the stock to a predetermined point past said head to actuate said clamping means, a cutter on said head operable during movement thereof with the clamped stock to cut off the stock, means responsive to complete severance of the stock by said cutter to retract the cutter out of engagement with the stock and then release said clamping means, and independent means operable automatically in response to movement of said head to a predetermined position beyond its normal range of movement to effect withdrawal of said cutter from engagement with the work and release said clamping means.

2,163,968
TYPEWRITING MACHINE
Russell G. Thompson, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application February 20, 1937, Serial No. 126,904
7 Claims. (Cl. 197—73)



1. In a power-driven typewriter, a frame, a rotary driving member with teeth, transiently engageable means on opposite sides of the driving member for alternative engagement therewith, an actuator carrying said transiently engageable means, a lever pivoted on said frame having one arm connected to move with said actuator and another arm having a short link pivoted at its end, a part to be shifted from one to another case position, a link extending from said part to a connection with said short link, another short link extending from the last said connection to a point of support by said frame, stops for limiting the movements of said lever and links in two alternative straightened toggle positions and a case shift key lever mounted for operation of said transiently engageable means, adapted upon movement in one direction to cause engagement of said means on one side of the driving member and upon movement in the opposite direction to cause engagement of the said means on the opposite side of said driving member.

2,163,969
HYDRAULIC LASH ADJUSTER
Paul E. Whalen, Bedford, Ind.
Application July 2, 1937, Serial No. 151,577
20 Claims. (Cl. 123—90)

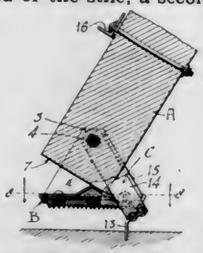


1. In combination with a valve tappet and a valve operating member, an adjusting screw carried by said valve tappet and having a cavity formed in the head thereof, a hollow cylinder of elastic material seated in said cavity, a substantially non-elastic closure for said cylinder, said closure engaging said valve operating member, and means for supplying a substantially non-compressible fluid to the interior of said cylinder.

2,163,970
LADDER FOOT
Frank White, Bloomfield, N. J.
Application March 17, 1937, Serial No. 131,289
5 Claims. (Cl. 228—62)

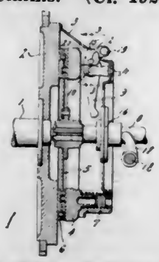
5. The combination with the stiles of a ladder,

of a foot pivotally mounted adjacent the lower end of each stile and including a base portion having a swinging movement in opposite directions across the end of the stile limited in both directions by engagement of said base portion with the end of the stile, a second foot pivotally



connected on each stile on the same pivot as the first foot and having a base portion to engage the ground and swing over the base portion of the first foot, and means on the first foot for limiting swinging of the second foot in at least one direction.

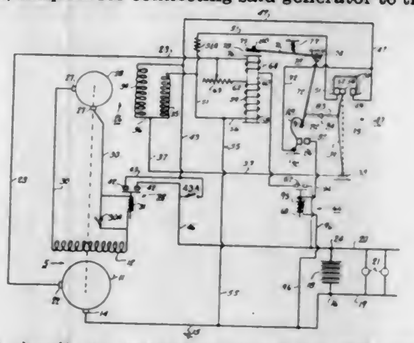
2,163,971
CLUTCH CONSTRUCTION
Reinhold C. Zeidler, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 2, 1937, Serial No. 172,470
8 Claims. (Cl. 192—68)



5. In a clutch, the combination of a sheet metal cover plate formed with apertures therein, an axially shiftable pressure plate having lugs fitted in the apertures, the metal of the cover plate being fashioned with projecting ears on the driving and coast sides of the apertures and between which the lugs are introduced, said ears converging toward each other in a direction toward their free ends and arranged to engage the lugs with tension.

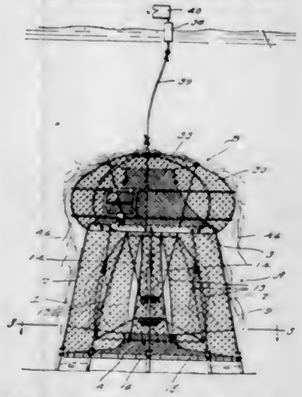
2,163,972
CONTROL SYSTEM FOR DYNAMO-ELECTRIC MACHINES
Gordon R. Anderson, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application March 2, 1936, Serial No. 66,588
3 Claims. (Cl. 171—313)

1. In a system of voltage regulation, a main generator having a field coil, an exciter generator for supplying excitation current to said field coil, a field circuit for said exciter, including a pair of windings and a source of direct current in circuit therewith throughout operation of the system, for supplying excitation current to the windings, said windings also being in circuit with said main generator, mechanism of electromagnetically operated type, adapted for controlling the function of said windings, said mechanism being operatively responsive to both current and voltage conditions of said main generator, a load circuit for said generator, a contactor of electromagnetic type, adapted for connecting said generator to the



load circuit, an energizing circuit for said contactor, and means associated with said energizing circuit and operated by said mechanism, for controlling the energization of said contactor.

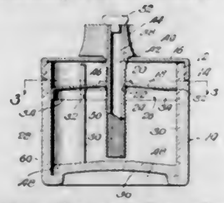
2,163,973
FISH TRAP
Otto K. Benca and Ferdinand Benca, Chicago, Ill.
Application October 31, 1938, Serial No. 238,014
4 Claims. (Cl. 43—100)



1. A fish trap of the class described comprising a foraminous lower chamber and a foraminous upper chamber mounted thereon, said lower chamber having an entrance opening in its bottom and a plurality of entrance openings in its walls, a transparent receptacle suspended in the lower chamber for the reception of live minnows, and a non-return passage for the fish establishing communication between the upper and lower chambers.

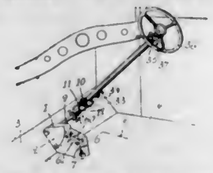
2,163,974
DISPENSING CONTAINER
Donald O. Blett, Chicago, Ill.
Application July 6, 1937, Serial No. 152,224
3 Claims. (Cl. 221—79)

2. A device of the type described comprising an open-ended container having a wall and a bottom, said wall having a plurality of ribs extending inwardly from the wall and longitudinally of the same, a cover for closing the open end of the container and having an opening, a screw extending through the opening and rotatably related to the cover, said screw being provided with a longitudinal extruding bore and its inner end being positioned in close relation with said bottom, a flanged piston having threaded relation with said screw inside the container, the flange of the piston fitting snugly against the inner face of said wall and being slotted for receiving said ribs, said ribs restraining relative rotary movement of



the piston within the container when said screw is rotated in one direction, rotation of the screw in the said one direction causing the piston to move in the direction of said bottom for forcing material in the container through the extruding bore in the screw, pressure applied to the material in the container being transmitted to the slotted flange for pressing the same against the inner face of said wall, and grip means associated with the outer end of the screw, to facilitate turning of the same.

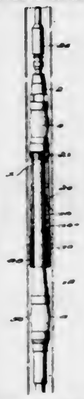
2,163,975
CONTROL MECHANISM FOR CHANGE-SPEED GEARS OF MOTOR VEHICLES AND THE LIKE
Robert Louis Delmas, Paris, France
Application May 3, 1937, Serial No. 140,552
In France May 25, 1936
6 Claims. (Cl. 74—334)



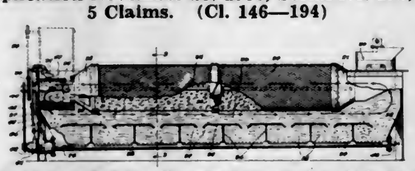
1. A gear shifting mechanism comprising in combination a pair of gear shifting rods, a transverse stud operatively connected to each of said rods, a selecting wheel provided with a plurality of angularly spaced cam surfaces and an equal number of notches diametrically opposite to said cam surfaces, a support member rotatably supporting said selecting wheel, control means for giving to said selecting wheel different angular positions for each of which one of said cam surfaces is operatively engageable with one of said studs while the diametrically opposite notch provides for the free passage of the other stud, operating means for moving said support member to operatively engage the engageable cam surface and stud and returning means adapted to return said elements to their neutral position during the approaching stroke of said supporting member.

2,163,976
FLOW PREVENTER FOR OIL WELLS
William K. Edwards, Big Spring, and Orland Thompson, Wickett, Tex.
Application January 22, 1938, Serial No. 186,456
10 Claims. (Cl. 166—13)

1. In a device of the class described, the combination of a hollow mandrel having a tapered portion, a plurality of slips surrounding said mandrel, a wedge member slidable on the mandrel and engaging a wedging surface interiorly of the slips, pistons at the opposite ends of the mandrel, a packer sleeve on said mandrel having a bore to engage the tapered portion thereof, whereby upward pressure on the mandrel will cause the slips to engage a well casing and will also effect a spreading of the packer sleeve against the tubing, and a downwardly facing valve seat in said mandrel, a valve on said seat, a spring for holding said valve normally seated, said valve arranged to open under hydrostatic pressure to permit a circulation of fluid through the device.



2,163,977
MATERIAL TREATING AND HANDLING APPARATUS
Joseph D. Ferry, Harrisburg, Pa.
Application November 23, 1936, Serial No. 112,396
5 Claims. (Cl. 146—194)

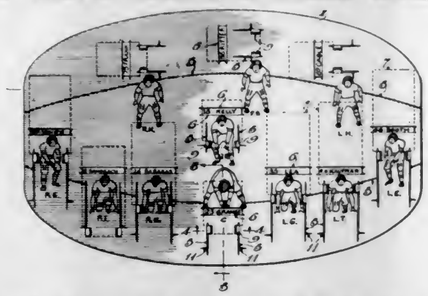


1. In a machine for washing cut potatoes, including a perforated washing drum and a tank for holding the drum and a fluid circulating through the drum, means forming a series of settling chambers in the tank below and opening upwardly into the circulating fluid beneath the drum, a conveyor also in the tank below and communicating with said chambers for constantly discharging settled solids therefrom, a grinder housing, a grinder therein discharging into the housing and receiving the material at the discharge end of said conveyor, a settling tank, and means for conveying the material from said grinder housing into the settling tank, said settling tank having a fluid overflow opening into the washing tank.

2,163,978
INTERCHANGEABLE LINE-UP
Otto Ivanek, Lyndhurst, N. J.
Application April 5, 1937, Serial No. 135,204
3 Claims. (Cl. 40—65)

1. A novelty comprising a card sheet with representations of a football lineup of player posi-

tions, said card having a pair of parallel slots adjacent each player position and having a second pair of parallel slots adjacent the first pair but at right angles to the same, a panel for each player position comprising a strip on one face of which is contained, in columnar arrange-



ment, the number and name of each player of the team for the particular position, said panel strip extending through the second of said pairs of slots to exhibit a single player's number and name at a time, said panel strip having guide-ears extending through the first of said pairs of slots for purposes described.

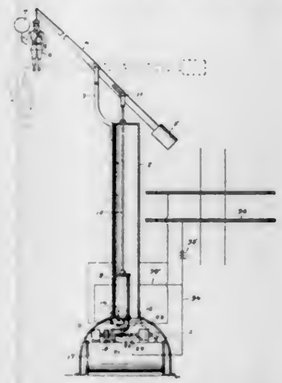
2,163,979
SCRAPER ATTACHMENT FOR PUSH BROOMS
Walter E. Judson, Sylvania, Ohio
Application May 11, 1937, Serial No. 142,045
2 Claims. (Cl. 15—111)



2. In combination with a broom head having a pair of openings extending therethrough from the upper face to the lower face thereof, a handle secured in one of said openings, a scraper including a shank, a split collar formed on one end of the shank and detachably secured to the handle, a scraping blade formed on the shank and engaged with the upper face of the head and extending outwardly beyond the latter, an ear struck from the blade and closing the other opening, a bracket adjustably connected to the ear and extending into the latter opening, and curved arms formed on the bracket and engaged with the lower face of the head for securing the blade thereto.

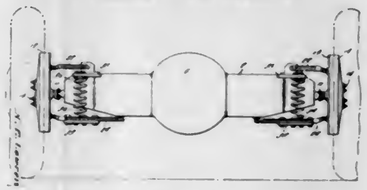
2,163,980
SAFETY CROSSING DEVICE
Fred S. Lalor, Eagle Grove, and Eugene Allen, Clarion, Iowa
Application April 9, 1938, Serial No. 201,154
2 Claims. (Cl. 246—128)

1. A safety device comprising a supporting post, a signal element pivoted to said post, counterbalance means normally positioning the signal element in non-signaling position, a cylinder carried by said post, a piston operating in said cylinder and connected to the signal element, an air supply means, a pipe connecting said air supply means to the cylinder, a valve for opening and closing said pipe and when open adapted to admit air to the cylinder for action on the piston to position the signal element in signaling position, an electric motor, an electric circuit for said motor and including a block area through



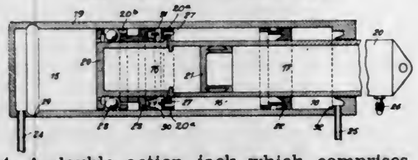
which a vehicle traverses and completes said circuit, means connecting said motor to the valve, and electrical means connected in said circuit for normally closing the latter to the motor and for venting the cylinder and adapted to break the circuit to the motor and close the venting of the cylinder after the signal element moves into signaling position by the vehicle entering the block area and to vent said cylinder after the passing of the vehicle from the block area and to restore the circuit to said motor.

2,163,981
REAR WHEEL SUSPENSION FOR MOTOR VEHICLES
Norman E. Lawrence, Fremont, Ohio
Application December 6, 1938, Serial No. 244,256
7 Claims. (Cl. 180—73)



1. A motor vehicle rear axle construction including a differential housing for the differential and adapted to be rigidly connected to a motor vehicle frame, live axles extending into said differential housing and having free vertical movement relative thereto, means for connecting said axles to the differential, axle spindles connected to said live axles and arranged exteriorly of the housing, brake drums providing mountings for rear wheels secured on the axle spindles for rotation therewith, means journaled on the spindles and providing journals for the drums, and cushion means connecting said second means on the housing for vertical movement relative thereto.

2,163,982
FLUID-OPERATED JACK
Jean Mercier, Paris, France
Application March 7, 1936, Serial No. 67,716
In France March 11, 1935
11 Claims. (Cl. 121—46)



4. A double action jack which comprises, in combination, two parts, slidable in each other with a fluidtight fit, forming at least two chambers of inversely variable respective volumes, control means for forcing fluid into either of said chambers at will, and yielding elastic means, interposed between said parts and located inside at least one of them, for urging them toward a predetermined relative position, whereby said parts are automatically brought into said relative position in case of failure of said control means to work.

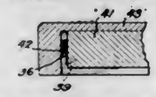
2,163,983
PROCESS OF REPRODUCING CELLS FOR OXIDE FILM ARRESTERS
Masahisa Ona, Ogikubo, Suginami-ku, Tokyo, Japan
No Drawing. Application August 4, 1937, Serial No. 157,453. In Japan November 15, 1935
1 Claim. (Cl. 175—30)

A method of recovering and reproducing disordered oxide film arresters through which repeated discharges have taken place, consisting in gradually heating the cells at a temperature between 110° C., and 150° C., for 20 to 30 minutes and then gradually cooling the cells, whereby they are recovered and resume their electric features and can perform their duties as in the case of new arresters.

2,163,984
PROCESS FOR THE PREPARATION OF A RUST-PREVENTING COATING ON METALLIC OBJECTS
Valentin Anton Petkovic, Berlin, Germany
No Drawing. Application December 7, 1936, Serial No. 114,639. In Germany December 9, 1935
19 Claims. (Cl. 91—68)

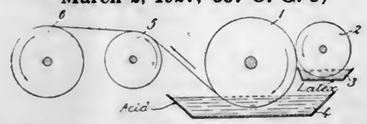
1. The herein described method of preparing a rust, preventing coating on metallic objects which consists in simultaneously applying two separate solutions to the object to be treated, one of said solutions comprising phosphoric acid and animal glue, the other of said solutions comprising substantially a chrome-oxygen-compound.

2,163,985
DESK COVER
Samuel J. Roberts, Scranton, Pa.
Application March 23, 1937, Serial No. 132,616
1 Claim. (Cl. 45—68.3)



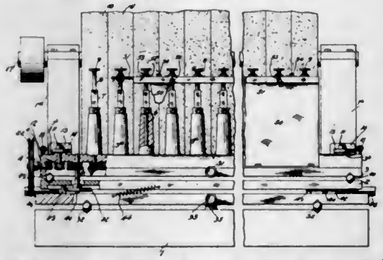
The combination with a desk top of a sheet of inelastic material seated on said top and having an inelastic rim integral with said sheet and surrounding all of the edges of said top, and cooperative locking means concealed by and interposed between all of said edges and the inner faces of said rim to lock said sheet to said top by movement of the sheet to seated position on said top.

2,163,986
RUBBER PROCESS
Thomas Lewis Shepherd, London, England
Application May 13, 1935, Serial No. 21,264
In Great Britain May 12, 1934
3 Claims. (Cl. 18—54)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. The process of producing rubber thread which consists in applying latex to a rotating member, transferring the latex to a second rotating member, applying a coagulant to the latex, withdrawing the coagulum from the second rotating member, and stretching it before the coagulation process is so advanced that stresses are set up by the stretching which tend to retract the thread thereby obtaining a thread of permanently smaller cross section.

2,163,987
GEM GRINDING MACHINE
Edward C. Smith, Santa Barbara, Calif.
Application August 31, 1937, Serial No. 161,811
6 Claims. (Cl. 51—101)

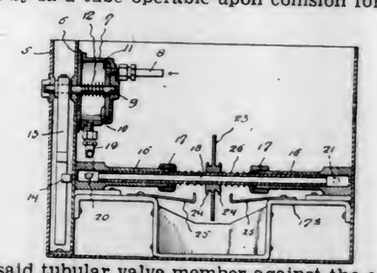


1. A stone grinding device comprising, a base, a grinding wheel rotatable on said base, axially parallel stone supports, a carriage on the base for lengthwise reciprocations, a second carriage for transverse reciprocations on said first carriage, said second carriage having vertical columns integral therewith and shaped to receive said stone supports, means within said second carriage for rotating said stone supports axially, and means also within said second carriage and associated with said rotating means for effecting such lengthwise reciprocations during rotations of said stone supports.

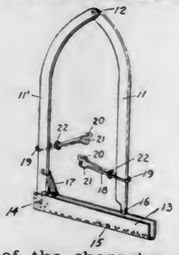
2,163,988
SAFETY APPARATUS FOR MOTOR VEHICLES
Cromwell Stacey, Port Angeles, Wash.
Application October 21, 1937, Serial No. 170,265
3 Claims. (Cl. 137—139)

1. A safety apparatus for use on motor vehicles comprising spaced alined tubular fittings respectively provided with fuel inlet and outlet

ports, a tubular valve member for normally conducting fuel from one fitting to the other, yieldable means normally positioning said tube wherein flow of fuel is freely permitted through said fittings and said tube, and an inert mass carried by said tube operable upon collision for sliding said tubular valve member against the action of said yieldable means to shut off the flow of fuel into one of said fittings when the vehicle is collided at one end and to cut off the flow of fuel from the other fitting when the vehicle is collided with at the other end.

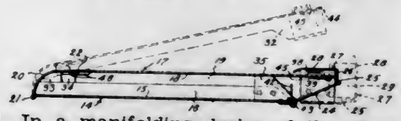


2,163,989
FUR STRETCHING DEVICE
Clarence Sturtz, Oconomowoc, Wis.
Application May 12, 1937, Serial No. 142,290
2 Claims. (Cl. 149—21)



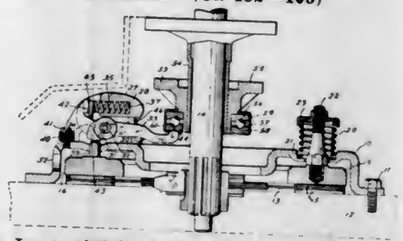
1. A device of the character described, comprising in combination a pair of side members pivotally connected at one end, a U shaped cross member pivotally supported by one of said side members, a plurality of engaging means on said hinged cross member for contacting the other of said side members, a resilient means for retaining the depending end of said cross member in engagement with one of the said side members, and adjustable clamping members slidably engaging said side members for retaining a pelt or the like in a stretched position on said device without piercing holes into the pelt.

2,163,990
MANIFOLDING DEVICE
George U. La Croix, Waltham, Mass.
Application January 8, 1937, Serial No. 119,594
10 Claims. (Cl. 282—12)



1. In a manifolding device of the character described, a pair of opposed channel members arranged in superposed relation, head and foot plates connecting said members together at their ends, and forming a parallel linkage between the members, said head plate being releasably connected to the upper channel member by a head piece hinged to said head plate and provided with catches releasably connecting the head piece to the upper channel member, said head piece having a lip portion extending in spaced relation over the outer face of the upper channel member when connected thereto by said catches, a stop member secured to the lower channel member to position a multi-ply zigzag folded pack of sales slip forming strips between the channel members, the head edge of the upper channel member being cut away to permit the passage of the leading ends of the strips around said edge and beneath said lip to operative position on the upper channel member with said edge in engagement with a fold of the strips, a spring normally holding the channel members in substantial contact with each other with the upper member offset lengthwise with respect to the lower member, said spring being yieldable to permit upward parallel movement of the upper channel member by the act of pulling on the free ends of the strips to bring the fold engaging edge of the upper member into substantial vertical alignment with the head edge of the strip pack, and simultaneously bring the head plate into contact with said stop to prevent further movement of the upper plate, whereby further pulling of the strips releases the engaged fold from the edge of the upper channel member with an accompanying release of tension and the at least partial return of the upper channel member to normal position under the action of the spring until the succeeding fold moves into engagement with the fold engaging edge of the upper channel member.

2,163,991
CLUTCH
Elmer V. J. Tower, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application February 8, 1934, Serial No. 710,295
6 Claims. (Cl. 192—105)



4. In a clutch, a driving member, a driven member, and a plurality of self-contained centrifugally operated conversion units secured to said driving member for pressing the driven member against the driving member, said conversion units comprising a plurality of separate parts normally held in predetermined relation to each other by resilient means contained within a recess in one of said parts.

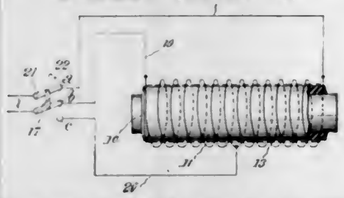
2,163,992
SAFETY RAZOR
Takeo Yoneta, Yotsuyaku, Tokyo, Japan
Application June 14, 1937, Serial No. 148,173
1 Claim. (Cl. 30—57)

A safety razor comprising, a U-shaped plate, a smooth surface roller mounted to rotate adjacent one edge of the plate, a clamping plate pivotably mounted to turn about the axis of said roller, a cutting blade, a holder for said blade pivotably mounted at the opposite edge of the U-shaped plate so that the cutting edge of the blade may be swung to a position adjacent said



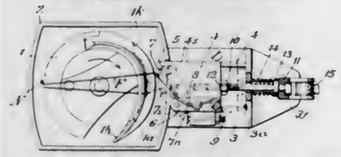
roller whereby said clamping plate may be moved over the blade to engage the upper surface thereof and maintain the cutting edge adjacent the roller when shaving.

2,163,993
DEVICE FOR THE VULCANIZATION OF RUBBER
René Alphonse Dufour, Paris, and Henri Auguste Leduc, Mantes-Gassicourt, France
Application December 16, 1937, Serial No. 180,254
In Luxemburg December 19, 1936
3 Claims. (Cl. 219—19)



1. An apparatus for heating a non-conducting material surrounding a metal core comprising a winding of electrically conductive material about said material, means for applying an alternating current to said winding, said winding, on being energized by said current, being adapted to heat the inner surfaces of said material by heat inductively generated in said metal core and said winding being simultaneously adapted to heat the outer surfaces of said material by functioning as a heating resistance element, and means for shutting off the inductance heating of said winding while proceeding with the resistance heating function thereof.

2,163,994
DEVICE FOR CUTTING AND CLAMPING THE NEEDLE THREAD OF SEWING MACHINES
Jakob Josef Fischer, Aarau, Switzerland
Application February 11, 1938, Serial No. 190,125
In Germany February 19, 1937
4 Claims. (Cl. 112—252)



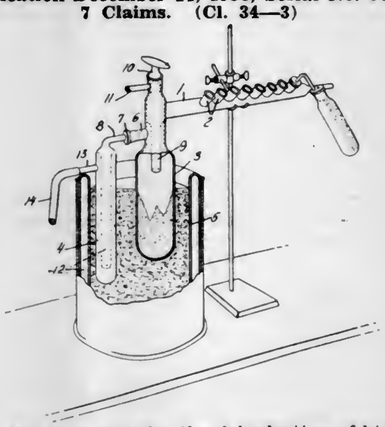
1. Device for cutting and clamping the needle thread of sewing machines, a rotatable bobbin carrier acting as a thread catch, a slide block mounted laterally of said carrier for reciprocation toward and away from the rotation axis thereof, a resetting spring associated with said block for counteracting its movement toward said carrier, a cam controlled thread gripper member pivoted to said block for grasping the needle thread underneath the work and providing a rockable clamping and cutting jaw, a cam face provided on said carrier for cooperation with said rockable jaw for controlling the same, and a mating clamping and cutting jaw fixed to said block for cooperation with said rockable jaw as the latter is controlled by said cam face in the operative position of said block, for clamping and cutting the needle thread caught by said thread catch.

2,163,995
SCRAPER FOR DOUBLE PIPE CHILLERS
Raymond C. Fuller, Louisville, Ky., assignor to Henry Vogt Machine Co., Louisville, Ky., a corporation of Kentucky
Application September 15, 1938, Serial No. 230,152
5 Claims. (Cl. 259—6)



1. Scraper for double pipe chillers comprising a shaft, a blade extending longitudinally of said shaft and spaced therefrom, a support for said blade comprising a rigid bracket secured to said shaft and being extended to a point between said shaft and the path of revolution of the working edge of said blade, and a resilient arm secured adjacent one end to said extended end of said bracket, said arm extending in such direction that the free end trails with respect to the direction of rotation of said shaft said blade being secured to the free end portion of said arm and having its working edge directed outwardly.

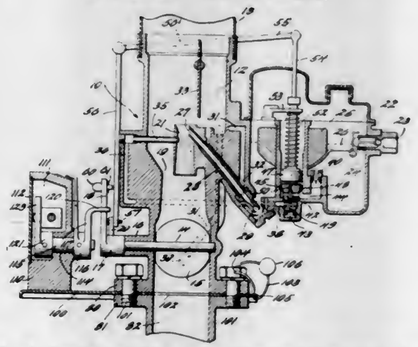
2,163,996
LABORATORY APPARATUS
Earl W. Flosdorf, Ardmore, Pa., assignor to The Trustees of the University of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania
Application December 14, 1935, Serial No. 54,450
7 Claims. (Cl. 34—3)



1. An apparatus for the dehydration of biological substances in a frozen state in small individual containers comprising a manifold having a number of upwardly and outwardly extending outlets, each adapted for receiving with a vacuum-tight fit a rubber stopper attached to the exhaust tube of a container of the frozen material, a main condenser directly connected to the manifold, a secondary condenser connected to the first condenser and in turn adapted to be connected to a vacuum pump, a container for containing both the main condenser and the secondary condenser with space therein for surrounding the condensers with a mixture of Dry

Ice and organic solvent, the connection between the main condenser and secondary condenser being above the top of the container, and the inlet to the main condenser extending downwardly a short distance into the main condenser and terminating in a downward direction at a level lower than the outlet from the main condenser to the secondary condenser.

2,163,997
CARBURETOR CONTROLLING DEVICE
Robert G. Handy, Detroit, Mich.
Application August 15, 1935, Serial No. 36,395
8 Claims. (Cl. 137—139)



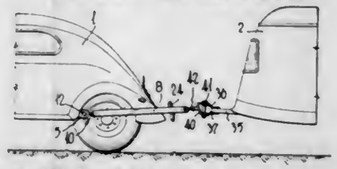
8. A device of the character described including in combination, a conduit having a throttle valve therein, a spindle carrying the valve and extending outside the conduit, an actuating arm secured to the spindle, a casing supported on the conduit having a rock shaft therein with a projecting end, a stop arm secured to said end having a portion in the path of said valve actuating arm adapted to limit the extent of movement of the valve arm in its opening direction, means to turn said shaft to adjust the stop arm and its portion to any one of a multiplicity of positions in the path of said valve arm and means to lock the stop arm against tampering by unauthorized persons.

2,163,998
DOUBLE PLANKED HULL CONSTRUCTION
Andrew J. Higgins, New Orleans, La.
Application December 3, 1938, Serial No. 243,863
5 Claims. (Cl. 9—6)



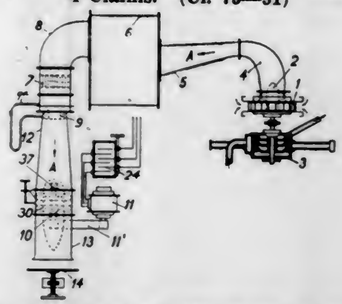
1. Double planked boat hull construction comprising inner side and bottom plank panels and outer side and bottom plank panels, the respective inner and outer plank panels making abutting joints at the chine, a water-tight flexible sheet interliner between the inner and outer side plank panels, folded about the inner chine angle and having a marginal lap on the inner bottom plank panel so as to cross the joint between said inner side and bottom plank panels, and a water-tight flexible sheet interliner between the inner and outer bottom plank panels extending between the abutting faces of the joint between the outer side and bottom plank panels, folded about the lower edge of the outer side plank panel and having a marginal portion lapping said outer side plank panel.

2,163,999
TRAILER HITCH
Charles O. Jacks, Reno, Nev.
Application October 26, 1938, Serial No. 237,125
9 Claims. (Cl. 280—33.44)



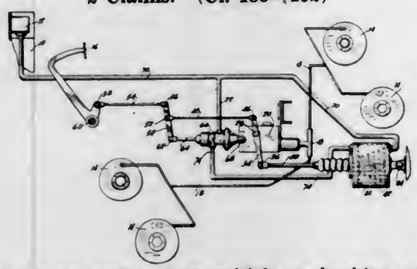
1. In a hitch of the character described for connecting a tractor venicle and a trailer having a drawbar, a U-shaped member adapted to be pivotally connected to said tractor vehicle on opposite sides thereof at points forwardly of the rear axle, said U-shaped member extending along each side and across the rear of the vehicle, a member extending transversely of the vehicle and rigidly connected to the rear end portion thereof, the transverse member and said U-shaped member having interengaging means in the form of arcuate straps on one member and guides therefor on the other member, and means for detachably connecting said trailer drawbar to said U-shaped member.

2,164,000
PLANT FOR THE INVESTIGATION OF HYDRAULIC MACHINES
Curt Keller, Zurich, Switzerland, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland, a corporation of Switzerland
Application February 4, 1937, Serial No. 124,109
In Switzerland February 17, 1936
4 Claims. (Cl. 73—51)



1. A plant for the investigation of complete hydraulic machines, particularly water turbines or models thereof, under working conditions, said plant comprising in combination, means defining a flow path for air; means for mounting the machine to be investigated in said flow path in such manner that all of the air flowing through the path flows through the machine; means for imposing a definite load on said machine; a blower for circulating air through said flow path; means for driving said blower; adjustable means for varying the head and quantity of air flowing through said path; and means for measuring the volume of air flow through said path.

2,164,001
BRAKE
Earl R. Price, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application June 13, 1938, Serial No. 213,410
2 Claims. (Cl. 188—152)



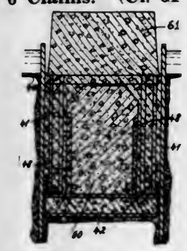
1. In an automotive vehicle, a braking system comprising brakes, a brake pedal, a first link extending rearwardly from the pedal to one end of a floating valve lever, a control valve having operating means connected to the other end of the lever, a second link connected intermediate the ends of the lever and extending to a power lever arranged to apply the brakes, a vacuum suspended power cylinder connected to said power lever, a source of vacuum, a conduit connecting the source of vacuum to one end of the power cylinder, a second conduit connecting the source of vacuum to the valve, and a third conduit connecting the valve to the other end of the power cylinder, said valve having valve elements and means normally holding said valve elements in a position permitting vacuum to pass from the second to the third conduit when the pedal is released, said valve having a pressure responsive element subjected on both sides to vacuum when the valve is in its normal position, said valve being operable upon depression of the pedal to admit air to said third conduit and to one side of the pressure responsive element, and said pressure responsive element being connected to the operating means to oppose valve operating movement when air is admitted thereto.

2,164,002
VACUUM CLEANER
Lloyd B. Salt, Chestnut Hill, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application July 22, 1938, Serial No. 220,669
7 Claims. (Cl. 306—6)



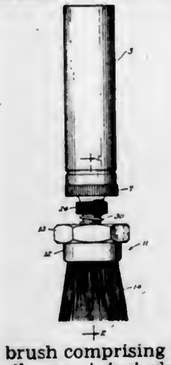
6. In a vacuum cleaner, a cover for the cleaning mechanism having a longitudinal slot in its upper portion, a handle movable in said slot for moving and guiding said cleaner, a handle support attached to said cleaner under said slot, said support containing a plurality of slots, and means forming extensions on said handle movable in said slots for providing adjustment of said handle in a plurality of positions.

2,164,003
METHOD OF BUILDING SUBTERRANEAN STRUCTURES
Hermann Scheelhaase, Fallersleben, Germany
Application March 31, 1937, Serial No. 134,032
In Germany July 18, 1934
6 Claims. (Cl. 61—46)



1. The method of forming an opening in the ground which contains sufficient water to exert a buoyant pressure in which opening construction work may be manually performed which comprises, driving sheet pilings into the ground to provide side walls for the opening, removing the solid matter between the side walls without removing the water, constructing a concrete bed plate to extend between the sheet pilings so as to provide a sealed bottom for the opening, depositing ballasting material into the opening so as to rest on the bed plate in a quantity to provide sufficient weight to resist upward movement of the bed plate in the absence of water in the opening, removing the water from the opening, and thereafter confining the ballast material to a portion of the bed plate so that a space will be provided for manual work to be performed in the space.

2,164,004
FOUNTAIN STENCIL BRUSH
Milton B. Wright, St. Petersburg, Fla., assignor to Universal Fountain Brush Company, Inc., a corporation of Florida
Application December 2, 1936, Serial No. 113,903
3 Claims. (Cl. 15—138)



1. A fountain brush comprising in combination, a reservoir handle, an interiorly threaded cap forming a closure for said handle, a brush head comprising a cap adapted to receive a brush element therein, a hollow stem mounted on said

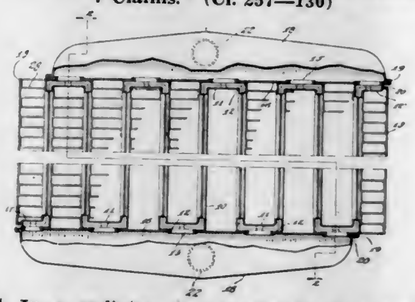
brush cap and extending into said handle cap and threadedly engaging the interior threads thereof and including a threaded shank extending from within said brush cap, and a brush element comprising a wedge block securely embedded therein and having a bore therethrough with interior threads for engagement with said threaded shank, said wedge block being polygonal in cross-section to prevent turning of same within said brush element.

2,164,005

RADIATOR CORE CONSTRUCTION

Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana

Application April 1, 1937, Serial No. 134,267
7 Claims. (Cl. 257—130)



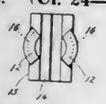
1. In a radiator, two spaced headers and a core disposed between said headers, said core comprising a pair of retroverted interfitting metal strips having their edges sealed together and their adjacent faces provided with opposed channels defining a plurality of longitudinally extending fluid passages and a plurality of transverse fluid passages interconnecting said longitudinal passages, the adjacent walls of said transverse passages and of said headers being provided with registering openings affording communication between said headers and said core.

2,164,006

SHEET METAL SPLIT-BOLT CONNECTOR

Bern Dibner, Peekskill, and Julian Rogoff, New York, N. Y., assignors to Burndy Engineering Co., Inc., a corporation of New York

Application September 10, 1937, Serial No. 163,186
5 Claims. (Cl. 24—243)



2. A split-bolt connector having a split-bolt, a pressure bar, a nut, and a nut retainer, said split-bolt formed of a single sheet of metal and comprising a centrally located head, and a pair of extending legs, integral with said head and bent at right angles thereto, said legs cylindrically formed with external and internal concentrically arranged surfaces, the external surfaces of which are threaded for engagement with said nut; said nut retainer comprising an elongated metallic means having a head at one end for slidable engagement between said nut and pressure bar, and another head at the remaining end for engagement with only one of the legs of said split-bolt, said elongated metallic means slidably attached to and lying within the engaging leg along its internal cylindrically formed surface.

2,164,007

SECONDARY ETHERS OF POLYHYDRIC ALCOHOLS

Theodore W. Evans, Berkeley, and Edwin F. Bullard, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 12, 1936, Serial No. 115,636
5 Claims. (Cl. 260—615)

2. The secondary amyl monoether of glycerol of the formula $R—O—CH_2—CHOH—CH_2OH$, wherein R represents a secondary amyl radical.

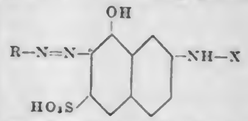
2,164,008

MONOAZO DYESTUFFS SOLUBLE IN WATER

Erich Fischer, Bad Soden in Taunus, and Richard Huss and Walter Gmelin, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 2, 1937, Serial No. 134,678. In Germany April 11, 1936
5 Claims. (Cl. 260—198)

1. The monoazo-dyestuffs soluble in water corresponding with the following general formula:



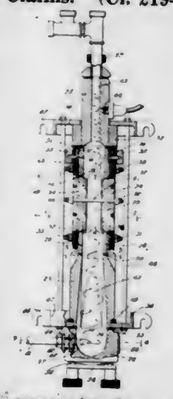
wherein R stands for a radical of the benzene series free from nitro-groups and containing at least once the group $—CH_2—SO_3H$ and X stands for a member of the group consisting of hydrogen, alkyl and a radical of the benzene series, being brown powders, penetrating deeply into the leather and yielding brown tints of good evenness.

2,164,009

ELECTRIC PASTEURIZING APPARATUS

Benjamin E. Getchell, Plainville, Conn., and Joseph C. R. Stone, Belmont, Mass., assignors to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut

Application March 22, 1938, Serial No. 197,352
6 Claims. (Cl. 219—40)



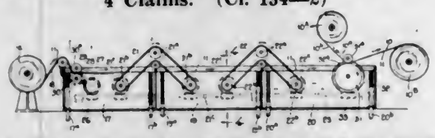
5. In electric apparatus for pasteurizing liquid, a heater including an electrode chamber leaving a central passage for the liquid between two oppositely disposed electrodes, a detachable inlet member connected to the lower end of the electrode chamber, said inlet member having a cup-shaped interior having an inlet with its point of entrance tangent to the side of the cup-shaped interior to compel a swirling movement to the liquid in its passage upward between the electrodes.

2,164,010

METHOD OF MOUNTING A METALLIC FILM ON A CARRIER

William F. Grupe, Lyndhurst, N. J., assignor to Peerless Roll Leaf Co., Inc., Union City, N. J., a corporation of New York

Application July 13, 1934, Serial No 734,966
4 Claims. (Cl. 154—2)



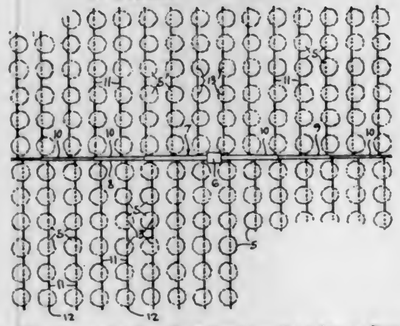
1. The method of producing an indefinite length of gold film having a thickness of the magnitude of that of beaten gold and having such thickness uniformly throughout its length, which comprises subjecting an indefinite length of metal suitable as a cathode to deposition of gold thereon as a film having the stated uniform thickness, thereafter subjecting under continuously uniform movement the resulting theretofore cathode metal bearing the deposited gold film to the action of a bath for removing such theretofore cathode metal and thereby releasing the gold film, then under the aforesaid continuously uniform movement passing the stated released gold film through a second bath for removing residue of such cathode-metal-removing bath, and passing the gold film through a third bath for removing traces of the material used in the second bath, and thereafter under the aforesaid continuously uniform movement positioning the resulting residue-free gold film upon a continuous carrier strip of indefinite length wholly by locating the continuously moving carrier strip in immediate adjacency to a portion of the continuously moving gold film while said portion of gold film is in transit in the immediate vicinity of the surface of said third bath and positively continuously moving the carrier at the stated rate of continuous movement of the gold film.

2,164,011

ORCHARD HEATING SYSTEM

Walter S. Hilborn, Covina, Calif., assignor to Donald F. Ainslee, Ontario, Calif.

Application May 13, 1937, Serial No. 142,332
3 Claims. (Cl. 47—2)



1. In a device for heating orchards, a furnace disposed centrally in said orchard to heat clean air drawn from the orchard, a main extending from opposite sides of said furnace to respective opposite sides of said orchard for the flow of clean heated air from said furnace, said main having a series of lateral openings therein, a collar lining each of said openings, a series of laterally extending pipes extending rotatably into said collars, respectively, and a plurality of deflectors in the bore of said main secured to said pipes respectively to divert heated air from said furnace into said pipes.

2,164,012

TREATMENT OF NONMINERAL FATTY MATTER RAFFINATES

Walter J. Hund, Oakland, and Ludwig Rosenstein, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 19, 1937, Serial No. 143,572
8 Claims. (Cl. 260—425)

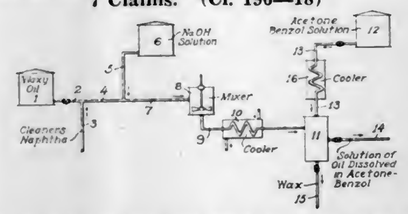
1. In a process for the refining of fatty matters with a nitrogen-containing alkaline extractant, the steps of first water-washing the raffinate obtained by the main extraction until substantially no free extractant is included therein and subsequently washing the raffinate with a minor volume of a dilute aqueous solution of an acid-acting agent at least stoichiometrically equivalent to the soaps present in the treated raffinate whereby the extractant combined as soaps is liberated and simultaneously substantially removed from the fatty matter.

2,164,013

METHOD OF SEPARATING OIL AND WAX

Vance N. Jenkins, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application December 23, 1936, Serial No. 117,318
7 Claims. (Cl. 196—18)



6. A method for the separation of wax and oil from an oil-wax mixture which comprises mixing said wax-oil mixture with an aqueous solution of alkali and thereby forming an emulsion, cooling the emulsion, separately cooling an extractant containing an oil solvent and a wax anti-solvent to a temperature lower than the temperature of the emulsion, commingling the cooled emulsion with the cooled extractant and separating the extractant and dissolved fraction from the emulsion containing the wax.

7. A method according to claim 6 in which the extractant comprises a mixture of acetone and benzol.

2,164,014

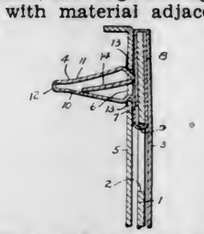
SNAP FASTENER MEMBER

Walter I. Jones, Arlington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application July 20, 1937, Serial No. 154,600
4 Claims. (Cl. 24—213)

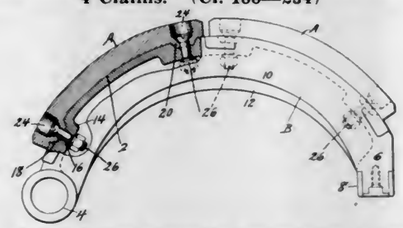
1. A snap fastener of the class described com-

prising a base portion, a snap fastener stud means extending in angular relation to said base portion, said stud having a pair of legs joined at their leading ends and movable toward and away from each other, said legs having shoulders for engagement with material adjacent a stud-re-



ceiving aperture, and an arm portion integral with one of said legs and extending toward the joined end between the legs into substantially adjacent relation with the other of said legs and acting to stiffen said legs when moved toward each other.

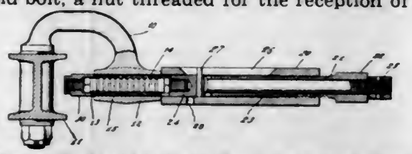
2,164,015
BRAKE SHOE ASSEMBLY
Francis W. Kateley, Upper Darby, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 25, 1937, Serial No. 165,754
4 Claims. (Cl. 188—234)



1. A brake shoe assembly comprising, a homogeneous brake shoe formed as a segment of a cylinder having a substantially smooth wheel engaging surface and a carrier engaging surface substantially parallel thereto, a plurality of countersinking recesses in said wheel engaging surface, substantially conical lugs formed integral with and projecting from the carrier engaging surface and each being formed of the same material as the shoe and having its axis substantially in alignment with the axis of a countersinking recess, a brake shoe carrier having its shoe receiving surface curved substantially concentric with the brake shoe surfaces, conical recesses in the brake shoe carrier adapted to receive the conical lugs on the brake shoe for transfer of braking forces from the shoe to the carrier, and securing means retaining said shoe lugs in engagement with the carrier recesses.

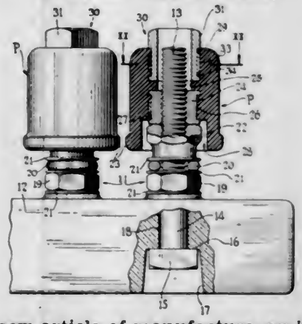
2,164,016
EXTRACTOR
Joseph H. Kautsky, Indianapolis, Ind., assignor to Oscar C. Catterlin, Indianapolis, Ind.
Application August 15, 1935, Serial No. 36,341
2 Claims. (Cl. 29—86.1)

1. A tool for moving axially in its support a bolt and bushing assembly comprising a bushing, a bolt therein, and yieldable packing material between said bushing and bolt, the ends of said bolt being screw-threaded and projecting outwardly beyond the ends of said bushing; said tool comprising a body engageable at one end with one end of said support and having in such end an axial bore for the reception of said assembly, a rod extending longitudinally through said bore and having in its end a screw-threaded recess for the reception of the adjacent end of said bolt, a nut threaded for the reception of the



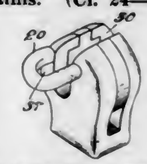
other end of said bolt, said nut having a diameter approximating that of said bushing and having its inner face counterbored, and means acting between said rod and said body for withdrawing said assembly from the support.

2,164,017
INSULATED BINDING NUT
Frederick C. Lavarack, Montclair, N. J., and Benjamin Schlesinger, Flushing, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York
Application May 19, 1936, Serial No. 80,512
1 Claim. (Cl. 173—259)



As a new article of manufacture, an insulating body having an axial bore adapted to fit over the free threaded end of an electrical terminal post of the class provided with at least one binding nut screwed upon said post, for securing a bared conductor part near the base of said post, said body having an enlargement at one end in its bore adapted to receive said binding nut, and also having fixed in said bore a nut adapted to be engaged with said binding nut when screwed home, said binding nut face terminating the enlargement in the bore, and a bushing fixed non-rotatively in the other end outer mouth of said bore, and having a non-circular portion extending beyond said mouth to receive a tool.

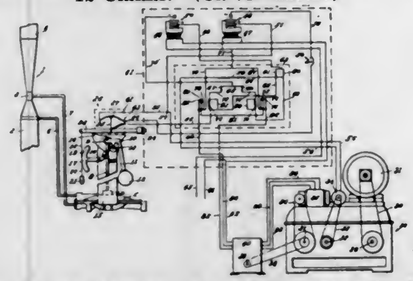
2,164,018
COMBINED ATTACHING EYE AND PIN STEM JOINT OR SAFETY CATCH
Eugene Morehouse, Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application October 28, 1937, Serial No. 171,427
7 Claims. (Cl. 24—156)



4. A combined attaching eye and pin stem

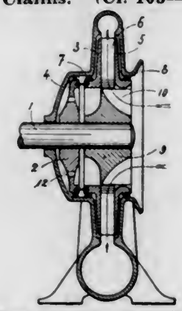
catch comprising a body having a pair of ears with a rotor slot between, a pin stem slot in both ears at right angles to the rotor slot, and a U-shaped attaching eye integral with said body and bridging said slot.

2,164,019
FLOW-RATE-RESPONSIVE CONTROL MEANS
William R. Perry, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application February 29, 1936, Serial No. 66,501
12 Claims. (Cl. 74—230.17)



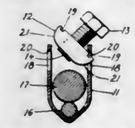
1. In combination, a conduit, means in said conduit for creating a head differential in fluid flowing through said conduit, an electric generator, means including a variable-speed transmission for driving said generator, and means dominating said transmission and jointly responsive to variations in said head differential and in the voltage output of said generator for controlling the speed of said generator in accordance with the rate of flow of fluid through said conduit.

2,164,020
IMPELLER
Willem van Rijswijk, Baden, Switzerland
Application December 4, 1936, Serial No. 114,195
In Germany December 12, 1935
2 Claims. (Cl. 103—110)



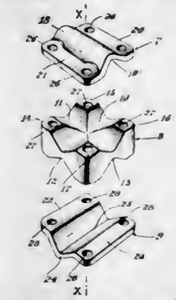
2. A centrifugal pump comprising, in combination, a shaft, a bladed impeller comprising two cover discs which together with the blades form an independent rotor element, the cross sectional configuration of one of said cover discs being substantially the reflected image of the cross sectional configuration of the other of said cover discs, a hub part connected to and rotated by said shaft, means movably connecting said hub part with one only of said cover discs for relative radial movement, whereby said connected cover disc can expand independently of said hub part and the torque is effectively transmitted from said hub part to said connected cover disc, and an additional, individual impeller situated concentrically and substantially within said first-mentioned impeller and being also connected to and rotated by said shaft.

2,164,021
GROUND-WIRE CLAMP
Julian Rogoff, New York, N. Y., assignor to Burndy Engineering Co., Inc., a corporation of New York
Application December 15, 1936, Serial No. 115,929
1 Claim. (Cl. 24—243)



A connector comprising a substantially rigid U-shaped member having an aperture in each of the two legs of the U-shaped member; a pressure screw; and a pressure bar for engagement with each of the apertures in the U-shaped member, said pressure bar having a central threaded aperture for said pressure screw and rounded ends to facilitate entrance through the apertures in the legs of the U-shaped member which ends are curved in substantially the same direction as the U-shaped member.

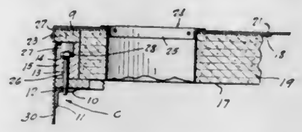
2,164,022
ELECTRIC CONNECTOR
Raymond N. Rowe, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application December 10, 1937, Serial No. 179,044
4 Claims. (Cl. 24—243)



2. An electrical connector including two end pieces and a central piece, the end pieces being invertible and each piece having two wire-receiving walls mutually bisecting at right angles on the respective faces of each end piece, one of said walls on each end piece having a groove therein, the other wall being flat-surfaced excepting where the groove intersects it, the central piece having two wire-receiving walls mutually bisecting at right angles on each of the faces of said central piece adjacent the end pieces, each of these walls having a groove therein, means for aligning the walls on the end pieces with the walls on the central piece and for selectively and invertibly positioning said end pieces so that the grooved walls in the end pieces may lie in either the same direction or at right angles to each other, and means for drawing said end pieces toward each other and toward the central piece whereby wires of various sizes

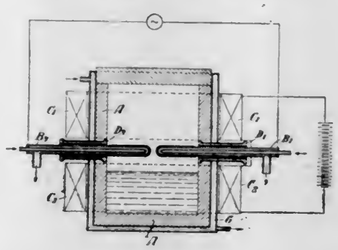
may be clamped by said walls in either parallel or crossed relation, said means for aligning and positioning and said means for drawing including a plurality of screw bolts, said central piece being free to position itself between said end pieces.

2,164,023
SUB-TOP FOR REFRIGERATING CABINETS
Ludwig Saha, Secane, Pa., assignor to Saha Manufacturing Company, Inc., Philadelphia, Pa.
Application October 8, 1937, Serial No. 167,898
2 Claims. (Cl. 220—9)



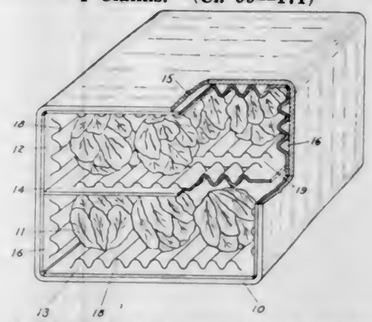
2. In combination, a refrigerating cabinet having a side wall structure, a plurality of threaded studs carried by said side wall structure and upstanding therefrom, a sub-top having side faces corresponding to the side wall structure of the cabinet, said sub-top being formed with openings for receiving said studs, a finishing top disposed over said sub-top, marginal flanges carried by said finishing top overlying the upper portion of the side faces of the sub-top, the said sub-top being formed with recesses opening into the side faces thereof beneath the said marginal flanges, the said stud openings communicating with the said recesses, and nuts in said recesses threaded on said studs for clamping the sub-top in position on the wall structure of the cabinet.

2,164,024
ELECTRIC ARC FURNACE
Kurt Schneider and Herman Schunck, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application November 27, 1936, Serial No. 112,916
In Germany December 7, 1935
6 Claims. (Cl. 13—11)



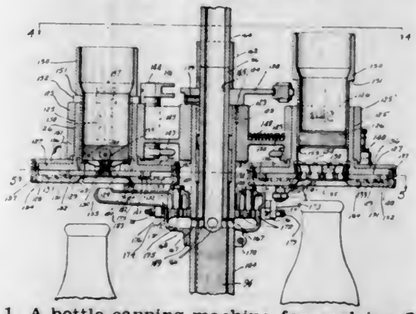
1. A furnace for the performance of smelting processes and reactions in the solid or liquid phases, comprising a closed smelting or reaction chamber adapted to receive a solid or molten charge, at least one pair of metal electrodes disposed therein in substantial alignment and above the level of such charge, and at least one pair of coreless electric coils surrounding said furnace and disposed symmetrically to said electrodes in such a manner that the common axis of both coils is perpendicular to the line defined by said electrodes.

2,164,025
PACKING
Walter J. Schwertfeger, West Englewood, N. J., assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application July 15, 1937, Serial No. 153,794
4 Claims. (Cl. 99—171)



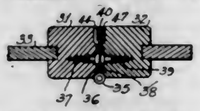
1. A shipping pack, comprising a container, a layer of garden produce therein, and a packing sheet spacing said layer from a wall of the container, and consisting of a die-molded sheet of pulp having a plurality of spaced preformed relatively rigid integral hollow projections extending from one face of the sheet to a distance sufficient to space the produce from the base sheet and provide ventilation between the produce and the sheet, said projections being of such size and shape as to provide adequate support with minimum surface contact between the projections and the produce in contact therewith and having the ability to withstand wetting or exposure to humid atmosphere without substantial deformation or collapse during the period of time in which the produce is packed in said container.

2,164,026
BOTTLE CAPPING APPARATUS
Lynn L. Seymour, De Kalb, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a corporation of Illinois
Application February 23, 1938, Serial No. 191,984
16 Claims. (Cl. 226—81)



1. A bottle capping machine for applying flexible caps having a substantially flat top portion and a substantially parallel bottom portion provided with an axial opening therein to uncapped bottles or receptacles, comprising means for supporting an uncapped bottle, means for receiving and supporting a stack of axially alined caps for application to said bottles, means engageable with the bottom portion of the lowermost cap in said stack for forming said bottom portion into a skirt and for expanding the opening in said bottom portion to a size sufficient to permit the head of a bottle to pass therethrough, and means for moving the head of a bottle through the expanded opening in said lowermost cap and continuing the movement of said bottle through the plane of said cap to remove the latter from its expanding means and leave it in position on the head of said bottle.

2,164,027
LATCHING DEVICE
Clarence R. Williams, Brooklyn, N. Y., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y., a corporation of New York
Application June 4, 1937, Serial No. 146,467
3 Claims. (Cl. 16—146)



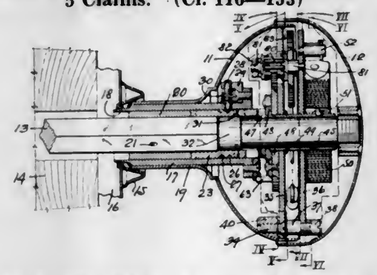
3. A latch for a pair of frames hinged at their abutting edges so that they may move on the hinge from a straight position to fold towards each other, comprising a notched plate on one frame having its end bent perpendicular to the frame and parallel to the abutting edges, a second plate on the other frame entering the notch of the first plate and having its end bent perpendicular to the frame, said bent ends being located in overlapping relation when the frames are in the straight position and a locking bar engaging said bent ends to hold the frames in the straight position.

2,164,028
PHOTOGRAPHIC OBJECTIVE
Max Berek, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany
Application July 21, 1937, Serial No. 154,710
In Germany August 13, 1936
1 Claim. (Cl. 88—57)



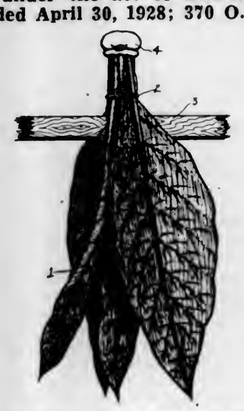
An objective lens system for photography intended for large apertures and large fields, corrected for spherical and chromatical aberrations and also for coma, astigmatism and distortion comprising four members, the first and second members being simple collective lenses, the third member being a simple dispersive lens and the fourth member being a triple lens consisting of two exterior dispersive lenses cemented to an interior biconvex lens with at least the front cemented surface thereof collective, characterized in that all the surfaces of the three first members are convex toward the incident light; the focal length of the second member is at least one half of but not equal to the focal length of the first member; the total focal lengths of the three first members is less than thrice the focal length of the whole system; the radius of curvature of the fifth lens surface in the system is at least thirty per cent longer than the radius of the fourth surface thereof and said fifth radius is at the most twice the focal length of the whole system and is also at least five times and at the most ten times greater than the radius of the sixth surface of said system.

2,164,029
DOOR BELL AND ALARM
Deloss Borland, Hot Springs, Ark.
Application April 7, 1938, Serial No. 200,719
5 Claims. (Cl. 116—153)



4. In a door alarm, an outer knob, an inner knob, a shaft secured to and extending from said outer knob to said inner knob, said inner knob including a stationary portion and a turnable portion, said portions being hollow and said turnable-portion serving as a bell, said stationary portion supporting a stationary frame, said turnable portion having a rigidly attached spindle, rotatably mounted in said frame and shiftable into and out of turning engagement with said shaft; a bell clapper operably carried by said frame and cooperable with said turnable portion as a bell, spring actuated means carried by said frame, and spindle, adapted to operate said bell clapper, means carried by said frame for preventing operation of said clapper actuating mechanism, means actuated by said turnable knob portion for winding said spring when said spindle is uncoupled from said shaft, and means operable by rotative movement of said shaft when in coupled engagement with said spindle for releasing said clapper operating mechanism.

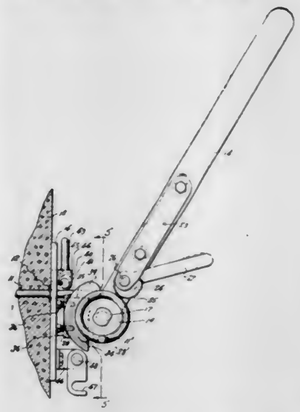
2,164,030
PROCESS FOR CURING PLANT FOLIAGE
Mayne R. Coe, Washington, D. C.
Application March 16, 1935, Serial No. 11,441
2 Claims. (Cl. 131—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In the process of treating tobacco leaves, the

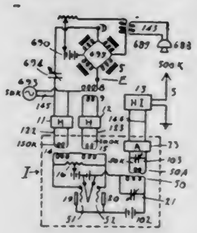
steps comprising exposing cut surfaces of the leaves during their curing and color transition period to an absorbent material saturated with a sulphydryl containing amino acid.

2,164,031
MEANS FOR EXTRACTING FORM TIES FROM CAST CONCRETE
Samuel S. Colt, West Orange, N. J.
Application November 23, 1938, Serial No. 241,886
9 Claims. (Cl. 254—73)



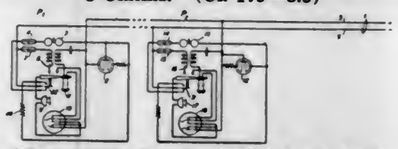
1. In a tool for the purposes described, a foot plate, a hand lever fulcrumed in connection with said foot plate, a winch-roll rotative about the fulcrum of said hand lever, gripper means mounted on said hand lever for cooperation with said winch-roll, and a sheer cam block adjustably mounted intermediate said foot plate and winch-roll and having a bearing face to abut the circumferential face of said winch-roll in supporting relation thereto.

2,164,032
CARRIER WAVE SIGNALING
Albert V. T. Day, Rye, N. Y.
Application February 14, 1930, Serial No. 428,272
18 Claims. (Cl. 250—6)



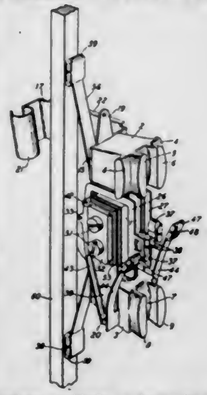
1. The method of employing a length-modulated carrier wave which consists in deriving therefrom a second carrier wave of lower mean frequency with corresponding length modulations covering a greater frequency range, deriving from the second carrier wave a third carrier wave having corresponding length modulations covering a greater frequency range, and deriving a signal from the length modulations of the third carrier wave.

2,164,033
TELEPHONE SYSTEM
Clair W. Halligan, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 8, 1938, Serial No. 183,978
8 Claims. (Cl. 179—8.5)



1. The combination in a telephone system of a subscriber's line having a substation thereon, a test bridge at the substation, a transmission bridge at said substation, means controlled by the subscriber's switchhook for closing both of said bridges in parallel across the conductors of said line when the subscriber initiates a call, a variable resistor in the transmission bridge having a high resistance when no current is flowing and a low resistance when current is flowing therein, a source for feeding transmission current over said line and through said transmission bridge, means for temporarily disconnecting said source of current from the line to permit said variable resistor to assume its high-resistance value, a source of test potential, and means for applying said test potential source to said test bridge while said source of transmission current is disconnected from the line.

2,164,034
SELECTOR SWITCH
Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 4, 1938, Serial No. 222,974
14 Claims. (Cl. 179—27.53)

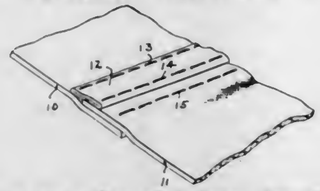


1. In a selector switch, a terminal bank having rows of terminals, said rows of terminals being grouped to form rows of terminal sets, a brush carriage associated with a row of terminal sets comprising a sled of insulating material engageable against the ends of said terminals and having portions extending therefrom between the rows of terminals serving to guide said sled in its movement along a row of terminal sets, brushes resiliently secured to said sled for engagement with said terminals, and means for resiliently holding said sled against the ends of said terminals.

2,164,035
ERASER, ERASING MATERIAL, AND A METHOD OF FORMING THE SAME
Warren E. Jones, Chicago, Ill.
No Drawing. Application June 2, 1937, Serial No. 146,036
7 Claims. (Cl. 120—36)

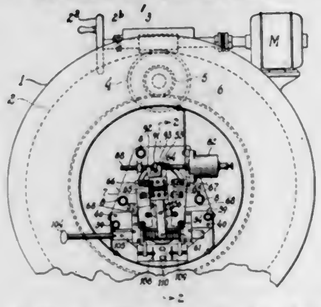
1. A pencil shaped eraser of the kind described consisting of a tenacious composition having ingredients in approximately the following proportions: 728 grains of lithopone, 353 grains of powdered English whiting, 533 grains of plaster of Paris, 728 grains of pure gelatine and 87 ounces of pumice stone and with water in an amount such that the mass initially has a crumbly consistency.

2,164,036
FLAT SEAM
Fred O. Lane, Indianapolis, Ind., assignor to Gates Manufacturing Company, Indianapolis, Ind.
Application October 23, 1937, Serial No. 170,566
2 Claims. (Cl. 112—262)



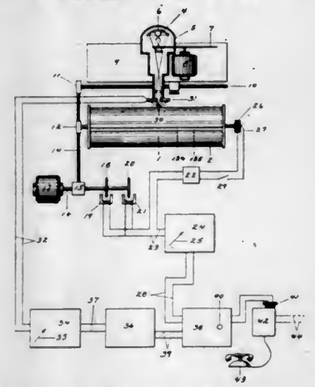
1. In a seam formed between two pieces of fabric, an end of one fabric piece lapped in flat relation over a flatly presented end of the other piece, a welt comprising a strip with both edges underlapped laid over the end of the top piece to extend slightly by one lapped edge over onto the under piece to cover the end of the top piece, a line of stitching passing through both thicknesses of the extended and lapped welt edge and the under fabric, a second line of stitching through both thicknesses of the welt adjacent its other lapped edge and through both pieces of fabric, and a third line of stitching spaced from said welt and passing through the upper fabric piece and the lower fabric piece adjacent its end, said second line of stitching being the only stitching passing through both fabric pieces and the welt.

2,164,037
CIRCUIT CONTROLLING DEVICE
Ralph G. Lockett, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 3, 1937, Serial No. 140,360
20 Claims. (Cl. 200—34)



2. In a switch mechanism, in combination, a rotatably driven part, a movable switch member having two switch-closed positions, operating means therefor comprising means operable by said driven part, an element movable by said means in one direction or the other in accordance with the direction of and upon a given amount of rotation of said driven part, means associated with said element and tending to effect snap operation of said switch member from one of said switch-closed positions to the other upon a given movement of said element, means associated with said snap operating means to retard operation of said switch member between said switch-closed positions, and means affording manual operation of said switch member to move the same into either of said switch-closed positions at will independently of the aforementioned means.

2,164,038
FACSIMILE TRANSMISSION AND REPRODUCTION
Maynard D. McFarlane and Edmund H. Hansen, Hollywood, Calif.
Application September 2, 1936, Serial No. 99,086
18 Claims. (Cl. 178—5.6)

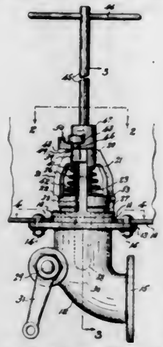


1. The method of picture transmission characterized by: scanning a succession of elemental areas of a picture or the like which is to be reproduced and thereby producing a succession of impulses each of which corresponds to one of said elemental areas, producing a constant frequency picture signal therefrom, simultaneously producing signals of two other synchronizing frequencies, and transmitting these three signals over one channel to a receiving station for the reproduction of a facsimile of the original subject, under control of the picture signal and a composite signal produced by the beat between the two said synchronizing frequencies.

2,164,039
DETACHABLE VALVE CAGE FOR TANK EMERGENCY VALVES
William Meyer, East Orange, and Howard C. Krone, Weehawken, N. J., assignor to A. W. Wheaton Brass Works, Inc., Newark, N. J., a corporation of New Jersey
Application September 7, 1938, Serial No 228,730
11 Claims. (Cl. 137—21)

1. In an emergency valve for a tank chamber outlet, a fixed external outlet portion having a port, said outlet portion having coupling means within said tank chamber, a detachable valve member cage provided with a valve means for closing said port, said cage having coupling means cooperative with said outlet portion coupling

means, and releasable lock means carried by said cage, said lock means being movable to positively



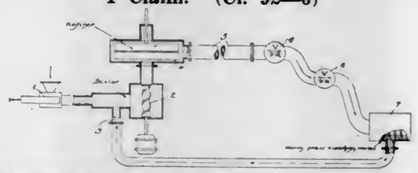
interlock said outlet portion and cage against accidental separation when the same are joined together by their cooperating coupling means.

2,164,040

METHOD FOR THE DECOMPOSITION OF RAW CELLULOSE

Fritz Offermanns, Muskau, Oberlausitz, Germany

Application July 21, 1936, Serial No. 91,699
In Germany April 18, 1936
1 Claim. (Cl. 92—6)



A continuous process for decomposing woody material and recovering cellulose, which comprises the steps of predisintegrating the raw material, working up the predisintegrated material into a press cake, introducing the press cake into a pre-treating boiler and treating therein with soda lye liquor at 150° to 220° C. and under a pressure of 6 to 12 atmospheres, passing the treated material to a refiner to reduce the same to a fibrous condition at the same temperature and pressure, then passing the reduced fibrous material to a decomposition pressure pipe of relatively long length and small diameter and accelerating dissolution of the natural incrustation material therein by subjecting the same to said soda lye at a temperature between 150° to 220° C. and under a pressure of 6 to 12 atmospheres, the time period of decomposition in said pipe being predetermined according to the material being treated and the degree of decomposition desired, and then passing the decomposed fibrous material through a worm press and washing vessel to separate the liquor from the cellulose-containing material, and then recycling at least part of the liquor to the pre-treating boiler for reuse.

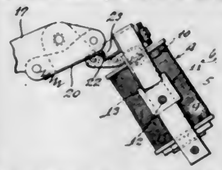
2,164,041

ELECTROMAGNETIC CONSTRUCTION

Ernest S. Ostler, Park Ridge, Ill., assignor, by mesne assignments, to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware

Application May 31, 1934, Serial No. 728,370
Renewed November 16, 1934
3 Claims. (Cl. 175—336)

1. In a magnetically operated structure, a magnet having a pole face, an armature adapted to move in a plane substantially parallel to the plane of said pole face supported on side members which form parallel branches for the magnetic field, and means for providing gaps of sub-



stantial size extending completely across the magnetic paths at the points of support of said armature when the armature is in unoperated position and for closing the magnetic paths at said points of support when said armature moves to its operated position.

2,164,042

ART OF PRODUCING PHOSPHATE COATINGS ON SURFACES OF IRON, ZINC, OR ALLOYS THEREOF

Gerald C. Romig, Elkins Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware

No Drawing. Application May 27, 1938, Serial No. 210,425
18 Claims. (Cl. 148—6)

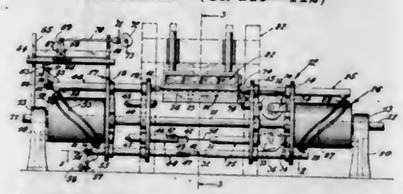
8. A process of preparing surfaces of iron, zinc and alloys of either for the reception of a phosphate coating, which process comprises chemically cleaning the surface and treating it with an acid solution comprising oxalic acid.

2,164,043

WIRE NETTING MACHINE

Theodor Rössler, Neustadt (Orla), Germany

Application November 4, 1937, Serial No. 172,746
In Germany May 8, 1936
10 Claims. (Cl. 140—112)



1. A wire netting machine comprising a pair of shuttle members, rotatable mounting means for said shuttle members, and stationary means engageable with said shuttle members to effect reciprocation of said shuttle members coactive with the rotation thereof.

2,164,044

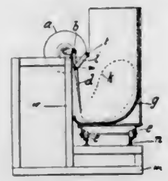
DEVICE FOR MIXING FIBROUS MATERIAL WITH BINDERS, SUCH AS PLASTER, CEMENT, MAGNESITE, AND THE LIKE

Johannes Steinert, Hanover, Germany, assignor to Dr. Ing. e. h. Eduard Dyckerhoff, Blumenau, near Wunstorf, Germany

Application November 11, 1937, Serial No. 174,048
In Germany November 17, 1936
2 Claims. (Cl. 259—2)

1. Apparatus for continuously mixing and transporting fibrous materials and binders comprising a mixing trough, a frame extending adjacent to and longitudinally of said trough, a

shaft supported in said frame, said shaft being offset to form crank sections, stirrers actuated



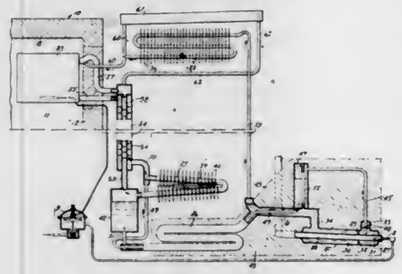
by said crank sections, said trough and said shaft being inclined.

2,164,045

REFRIGERATION

Hugo M. Ullstrand and Albert R. Thomas, Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware

Application December 7, 1935, Serial No. 53,376
12 Claims. (Cl. 62—119.5)



1. In an absorption refrigeration system, an absorber, a first heating zone, a second heating zone, members for circulation of absorption liquid from said absorber through said heating zones in series respectively, said members and said second heating zone cooperating to cause said circulation by vapor lift action, and means to conduct vapor from said second heating zone and bubble said vapor through absorption liquid below the level of said absorption liquid in its path of flow from said absorber to said first heating zone and below the level of liquid in said absorber.

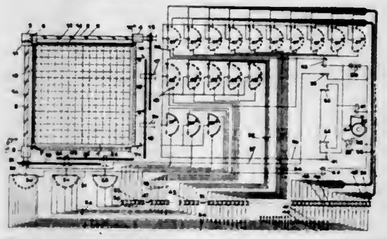
10. An absorption type refrigerator having walls defining an upright flue, said flue having a narrower upper portion and a wider lower portion, and refrigeration apparatus including a generally flat absorber for absorbing refrigerant from a gas, means for introducing absorption liquid and withdrawing gas at one end of said absorber and for withdrawing absorption liquid and introducing gas at an opposite end of said absorber, said absorber being located in a generally horizontal plane in the wider lower portion of said flue for cooling by natural air draft with the part or section thereof at said one end directly beneath the narrower upper portion of said flue and the part or section thereof at said opposite end so situated that gas flows in said absorber from one region in said flue to another region where the velocity of air past said absorber is higher, so as to maintain the absorption liquid at as low a temperature as possible at the part or section of said absorber at said one end and thereby deprive the withdrawn gas of as much refrigerant as possible.

2,164,046

MACHINE TO PUNCH ELECTRIC SIGN TAPE OR THE LIKE

Armand Zuckermann, called Armand Zouckermann, Paris, and Adolphe Julien Emile Renard, Saint-Denis, France, assignors to Société à Responsabilité Limitée: Luminograph, Paris, France

Application May 24, 1938, Serial No. 209,746
In France May 25, 1937
4 Claims. (Cl. 164—115)



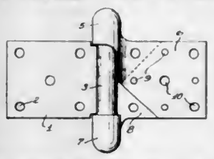
1. In a machine for manufacturing controlling bands having a plurality of series of controlling marks, marking means grouped in series which are equal in number to the number of series of controlling marks, selecting means associated with each series of marking means, for selecting one of said means in each series and causing same to be actuated, figurative means representing for an operator the whole of the elements to be controlled by the controlling band, and means for actuating the selecting means by said figurative means.

2,164,047

HINGE

Edward W. Baumann, Deming, N. Mex.

Application March 17, 1937, Serial No. 131,434
3 Claims. (Cl. 16—128)



1. A hinge comprising a pair of relatively movable members, one of said members having a spindle, the other of said members being sectionally constructed of a pair of directly attached together plates, each of said plates having an integral socket member to receive opposite ends of said spindle.

2,164,048

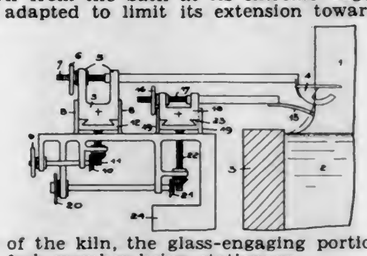
APPARATUS FOR THE DRAWING OF SHEET GLASS

Pierre Bertrand, Paris, France, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 27, 1937, Serial No. 165,854
In France September 28, 1936
3 Claims. (Cl. 49—17)

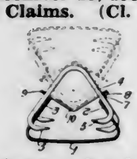
1. An apparatus for drawing sheet glass from a bath of molten glass in a drawing kiln comprising an edge maintaining device in the form of a forked non-cooled metal member located above the bath for holding the edge against inward movement, and a metal abutment member between the surface of the bath and said forked member engaging the meniscus of glass sheet

drawn from the bath at its extreme edge only and adapted to limit its extension toward the



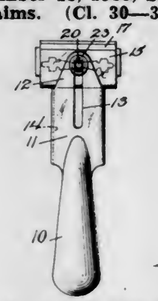
wall of the kiln, the glass-engaging portions of said fork member being stationary.

2,164,049
BELT HOOK HOLDER
Albright Bray, River Forest, Ill., assignor to Armstrong-Bray & Co., Chicago, Ill., a corporation of Illinois
Application December 13, 1937, Serial No. 179,456
3 Claims. (Cl. 1—56)



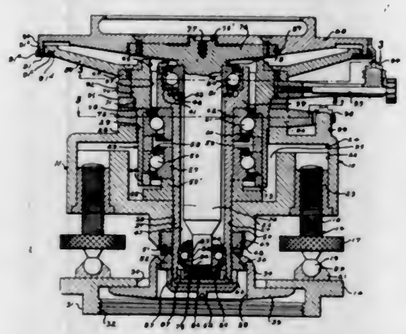
3. A positioning member for belt hooks having intermediate bent portions and mounted on a carding holder, said member consisting of an elongated strip of flexible material formed with a longitudinal series of transverse slots adapted respectively to receive said portions to maintain said hooks in predetermined relation on said holder, and being longitudinally bent to project inwardly into the associated carding holder substantially to form a trough adapted to receive therein the apexes of the bent hook portions of a nested holder and hook assembly.

2,164,050
RAZOR BLADE HOLDER
John Clark Brown, New York, N. Y.
Application November 13, 1935, Serial No. 49,489
2 Claims. (Cl. 30—320)



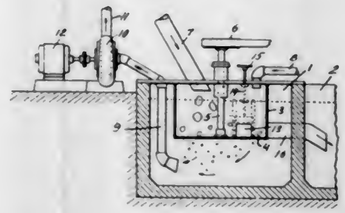
1. A razor blade holder comprising a sheet metal handle having an extension with a longitudinal slot therein, the extension having flanges at its sides terminating short of the end of the slot, a clip of sheet metal bent into a return bend and forming a channel for a razor blade, a stud passing through the slot and through the clip, and a nut on the end of the stud, the distance from the outer end of the slot to the outer end of the flanges being as great as the distance from the stud to the bent edge of the clip whereby the flanges act to brace the clip when the clip is arranged transversely.

2,164,051
SURVEYING INSTRUMENT
Amber N. Brunson, Kansas City, Mo.
Application September 16, 1938, Serial No. 230,241
11 Claims. (Cl. 33—46)



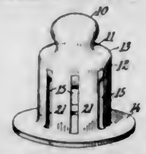
1. In a surveying instrument, a leveling head, a spindle bearing housing adjustably mounted on said leveling head, a spindle member within said spindle bearing housing, an anti-friction member positioned within and engaging said leveling head and said spindle bearing housing, another antifriction member engaging said spindle bearing housing and said spindle.

2,164,052
DISINTEGRATION OF MATRIX, MUD BALLS, ETC.
John Treadwell Bullwinkel, Brooklyn, N. Y.
Application August 16, 1935, Serial No. 36,472
2 Claims. (Cl. 209—6)



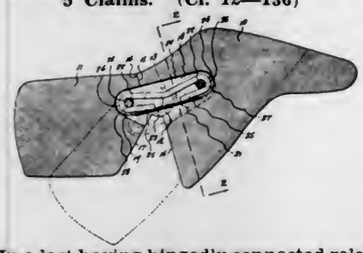
1. The method of disintegrating phosphate aggregates consisting of pebble phosphate having a covering of a softer material which comprises maintaining a relatively stationary mass of the aggregates at a substantial depth in a chamber having a surrounding stationary wall and enclosed within an outer chamber, rotating against the bottom of said relatively stationary mass of aggregates a substantially flat horizontal screen having openings of a size to retain at least some of the aggregates but to pass at least some of the pebble phosphate after removal of the softer covering material, rotating said screen at a rate sufficiently rapid to remove softer material from the retained aggregates by attrition until they are of a size to pass through the screen, substantially continuously supplying aggregates and water above the screen, maintaining said mass of aggregates substantially submerged in water, and withdrawing from beneath the screen water and material which passes through the screen.

2,164,053
SNAP FASTENER STUD
Joseph W. Dews, Waterbury, Conn., assignor to Scovill Manufacturing Company, a corporation of Connecticut
Application February 24, 1937, Serial No. 127,345
2 Claims. (Cl. 24—219)



1. A one-piece stud member comprising a stud head having a contracted neck for cooperation with a socket member, a shoulder extending outward from the neck of the stud head, a cylindrical skirt of greater diameter than the stud head depending from the shoulder, and a continuous base flange extending radially outward from the lower end of the skirt, said skirt being approximately twice as long as the flange is wide and having a plurality of slots therein which extend for its full length and divide it into a circular series of relatively narrow ribs, such ribs being adapted to be folded outward upon themselves to provide a series of radially disposed fingers capable of compressing a supporting sheet between themselves and the continuous base flange.

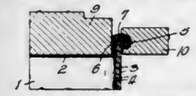
2,164,054
COLLAPSIBLE LAST
Emil Dietze, Richmond Hill, N. Y., assignor to Daetsch & Woodward, Inc., Brooklyn, N. Y., a corporation of New York
Application February 7, 1939, Serial No. 255,123
5 Claims. (Cl. 12—136)



1. In a last having hingedly connected relatively movable forepart and heel sections provided in their meeting end portions with matching longitudinally disposed and opposed recesses, a spring coupling link and housing therefor snugly embraced within said recesses, said link comprising a longitudinal tensionally extensible body terminating in end loops providing doubled back arms to impinge on a wall of said housing to support said loops against deforming stresses, and anchor pins carried respectively by said last forepart and heel sections to extend through said housing ends into anchoring engagement with the bights of said link end loops to thereby pivot said link and housing for swinging movement across the axis of the hinged connection between said last sections.

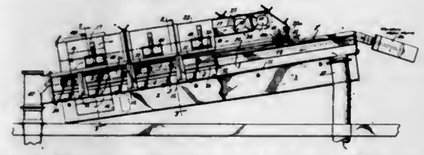
2,164,055
CONTAINER
Elmer G. Ellstrom, Webster Groves, Mo.
Application October 7, 1935, Serial No. 43,862
4 Claims. (Cl. 229—5.6)

4. In a can construction for lubricating oil and the like, a fibrous body having a leak-proof lining, outer folds on the end of the body, and metal end closures having flanges encasing the body



folds in such fashion as to compress the ends of the body folds to positively seal the ends of the body folds against wicking contents of the can.

2,164,056
DRYING, HEATING, OR ROASTING CONVEYER APPARATUS
Edward W. Engelmann and Hugh E. Wurzbach, Magna, Utah
Application December 14, 1937, Serial No. 179,714
4 Claims. (Cl. 34—38)

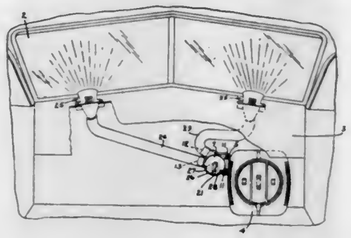


2. A drying or heating apparatus which comprises: an elongated material-receiving and conveying element defining a trough-like member; a casing member extending below said element and defining therewith an elongated passage for conducting a heated gaseous medium in heat-exchanging relation to said element at the lower surface thereof; a second casing member disposed above said element and defining a second elongated passage having a bottom wall extending above said trough member in spaced heat-exchanging relation thereto; means supporting both of said casing members in fixed position; means supporting said element for vibratory movement in a direction having a substantial component in the direction of the length of said element; duct means adjacent one end of said element establishing communication between the first-named passage and said second passage; cooperating sealing means associated with said element and with the respective casing members to seal the first-named passage and the space between said element and said bottom wall of the second passage from the atmosphere along the length of said casing members; and vibratory motor means associated with said conveying element for effecting vibratory movement thereof.

2,164,057
FLUID CONTROL VALVE
Henry W. Fink, Minneapolis, Minn., assignor to Tropic-Aire, Incorporated, Minneapolis, Minn., a corporation of Delaware
Application August 2, 1937, Serial No. 156,983
5 Claims. (Cl. 237—12.3)

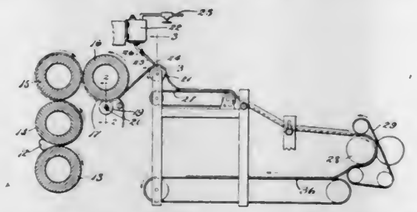
4. In combination in an automobile, a heater and defroster unit having a defrosting outlet extension, a casing having a cylindrical body and having a defroster air intake extension fitting and detachably connected with said defroster outlet extension, and further having a pair of adjacently disposed upwardly diagonally extending defroster-air discharge extensions, the cylindrical wall of said body having at a point between said intake and said discharge extensions a downwardly directed hot air discharge opening delivering to the floor, said extensions and floor delivery opening being along a line in same vertical

plane, a valve associated with said extensions and floor discharge opening so as to simultaneously close said adjacently disposed tubular extensions and establish communication between the intake extension and said floor discharge opening, so as to close the floor discharge opening



and establish communication between the intake and discharge extensions, and so as to prevent intake through said intake extension to said body, and a pair of defrosting-air delivery conduits, one connected with each of the adjacently disposed discharge extensions.

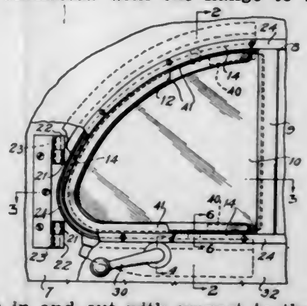
2,164,058
METHOD AND APPARATUS FOR MAKING RUBBER STRIPS
Fred D. Fowler, Newton, Mass., assignor to Hood Rubber Company, Inc., Watertown, Mass., a corporation of Delaware
Application March 25, 1936, Serial No. 70,776
8 Claims. (Cl. 18—11)



1. Apparatus for making strips of rubber, said apparatus comprising means for continuously forming an embossed sheet of rubber having a longitudinal channel, means for progressively depositing in said channel a dispersed rubber composition, and means for progressively dividing the sheet and the deposited material as a unit longitudinally of the channel by cutting through the deposited material and sheet while the deposited material is in a flowable condition to force the same over and upon the severed edge of the sheet as it is divided.

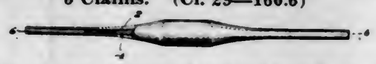
2,164,059
WIND WING
William J. Fuller, Los Angeles, Calif., assignor to John E. Wrightsman, Los Angeles, Calif.
Application April 29, 1937, Serial No. 139,690
12 Claims. (Cl. 296—44)

1. In combination, an automobile body having an opening, a garnish rail along the opening, a C-shaped support telescoping laterally with the garnish rail, said support being relatively wide to form a wind deflecting shield, a flange arranged on the support having conforming margins shielded thereby to limit the movements thereof, a wind wing on the support, and mechanism connected with the flange to move the



support in and out with respect to the garnish rail, through the intermediary of the flange.

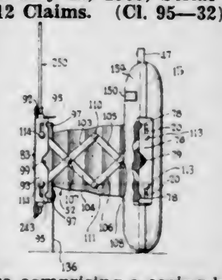
2,164,060
FINGER RING BLANK AND METHOD OF MAKING SAME
Stephen H. Garner, Attleboro, Mass., assignor to Leach & Garner Company, Attleboro, Mass., a corporation of Massachusetts
Application August 22, 1935, Serial No. 37,352
6 Claims. (Cl. 29—160.6)



1. As a new article of manufacture, a composite substantially flat finger ring blank having a one-piece rolled exterior of precious metal upon a core of cheaper metal, and with said cheaper metal terminating short of the ends of said blank, said blank having ends including plugs, said ends being wholly of precious metal.

4. The method of making a composite flat finger ring blank which consists in forming a cylindrical rod having a rolled exterior of precious metal upon a core of cheaper metal extending substantially throughout the length thereof, removing the end portions of the core of said rod, securing a plug of precious metal in the spaces thus made to again provide a solid cylindrical rod, tapering opposite ends of the cylindrical rod as thus formed to provide a composite ring taper with ends wholly of precious metal, and striking from the taper thus formed a substantially flat ring blank.

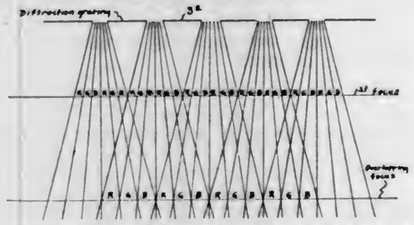
2,164,061
CAMERA
Otto W. Githens, New York, Jesse Norden, Astoria, and Edward G. Mannerberg, Brooklyn, N. Y., assignors, by mesne assignments, to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Application July 12, 1935, Serial No. 30,962
12 Claims. (Cl. 95—32)



1. A camera comprising a casing having a separate front portion and a separate back portion,

said front portion having an integral rearwardly extending box structure projecting into said back portion, means for detachably holding said front and back portions in assembled relationship, a bellows, a frame fixing the rear end of said bellows to said box structure, shutter mechanism attached to the front of said bellows, lazy tongs interconnecting said frame with said shutter mechanism and spring means to project said shutter mechanism.

2,164,062
DIFFRACTION METHOD OF AND APPARATUS FOR COLOR PHOTOGRAPHY
Samuel B. Grimson, New York, N. Y., assignor to Color Research Corporation, New York, N. Y., a corporation of Delaware
Application November 26, 1937, Serial No. 176,440
3 Claims. (Cl. 95—2)

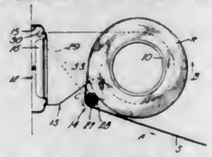


1. A method of making a black and white photographic separation negative of a scene in colors, which comprises exposing a light sensitive layer for production of a black and white negative to the scene through a lens system including a three-color filter in which the colors and sequence thereof are duplicated, and a diffraction grating, the diffration grating being placed with respect to the sensitized layer so as to superimpose on the sensitized layer two or more images of each color arriving through different areas of the lens and spaces of the grating.

2,164,063
FLOTATION REAGENT
Royal S. Handy, Kellogg, Idaho
No Drawing. Application March 7, 1938, Serial No. 194,424
2 Claims. (Cl. 252—9)

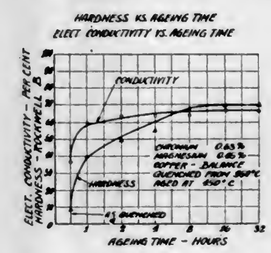
1. As a new and useful product of the class described, a compounded conditioning reagent for flotation treatment of oxide ore, consisting of oleic acid 45.1% by weight, kerosene 40.6% by weight, soda ash 5.5% by weight, and sodium silicate 8.8% by weight, all thoroughly mixed and compounded in the form of a jelly that is miscible in water in any proportion.

2,164,064
PAPER ROLL HOLDER
Herbert Harvey, Los Angeles, Calif., assignor to Leo M. Harvey, Los Angeles, Calif.
Application January 8, 1937, Serial No. 119,611
10 Claims. (Cl. 242—55.2)



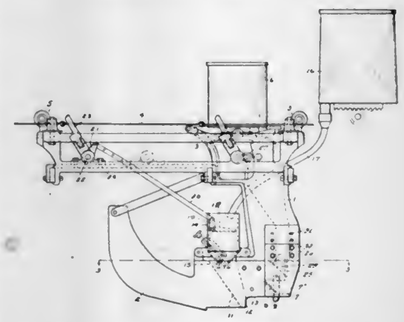
1. A holder for a roll of sheet material comprising, a body, means on the body for supporting the roll for rotation about a fixed axis and to have the strip of material unreel from its back side, and a roller swingably supported on the body between the roll and said strip to be swung against the roll by said strip to stop rotation of the roll when the said strip is pulled outwardly.

2,164,065
COPPER CHROMIUM MAGNESIUM ALLOY
Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind, a corporation of Delaware
Application September 15, 1937, Serial No. 164,033
3 Claims. (Cl. 75—153)



1. An alloy containing 0.1–3% magnesium, 0.1–3% chromium, and the balance copper.

2,164,066
PLANTER SHOE
Otto E. Holle, Decatur, Ind.
Application November 1, 1937, Serial No. 172,067
3 Claims. (Cl. 111—73)



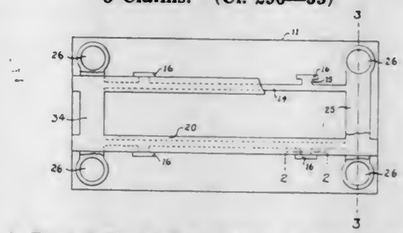
1. In a planter the combination with a seed receptacle and a fertilizer receptacle, of a support having a passageway communicating with the seed receptacle for distributing said seed, a single shoe mounted on the support and having a downwardly inclined passageway extending through it, a hopper communicating at its lower end with said inclined passageway and also having communication with the fertilizer receptacle, the discharge end of the latter passageway being forward of and below the discharge end of the seed passageway, and a pair of plates vertically adjustably attached to opposite sides of the shank rearwardly of the shoe and having a transverse member connecting their lower ends whereby to regulate the gravital descent of the soil into the furrow and over the fertilizer prior to the deposit of the seed.

2,164,067
MACHINE FOR DRESSING EXTERNAL CYLINDRICAL SURFACES
Albert M. Johnson and Walter M. Fairbairn, Rockford, Ill., assignors to Barnes Drill Co., Rockford, Ill., a corporation of Illinois
Application February 23, 1938, Serial No. 191,912
18 Claims. (Cl. 51—157)



1. In a machine for dressing external cylindrical surfaces, in combination, an elongated horizontally disposed base, a carriage supported for reciprocation longitudinally of the base, a tool supporting fixture mounted on said base, a cylindrical abrasive tool supported by said fixture, a headstock and a tailstock on said carriage having centers for supporting a work piece concentrically of said tool and with its axis parallel to the reciprocating path of the carriage, means for reciprocating said carriage to traverse the work past the tool, a motor mounted on said base, and means operatively connecting said motor with the headstock center for rotating the work piece during the reciprocation of said carriage, said connecting means including a splined shaft drivingly connected with said motor and extending substantially parallel to the reciprocatory path of the carriage, and a train of gears carried by said carriage for movement therewith, one of said gears being rigid with the headstock center and another of said gears having a slidable nonrotatable relation with said shaft.

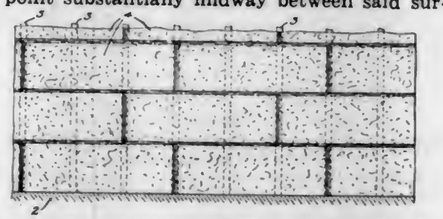
2,164,068
PNEUMATIC SPRING SUSPENSION MEANS
Julian E. Johnson, Chicago, Ill.
Application November 13, 1936, Serial No. 110,708
8 Claims. (Cl. 296—35)



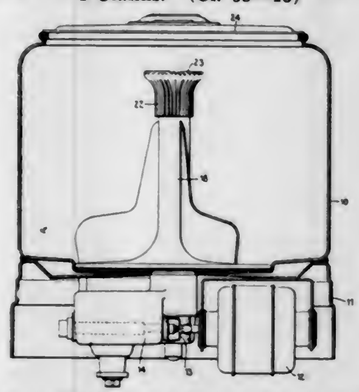
1. Pneumatic spring means, a vehicle having an undercarriage and a body thereon, guide means associated with said vehicle and including a plurality of suitably placed projections extending laterally from said undercarriage and projections or jaws extending downward from said body and adapted to embrace the said lateral projections so as to provide for vertical relative movement only between said body and undercarriage, and means for interposing said pneumatic spring means between said body and undercarriage so that said body is wholly supported by said pneumatic spring means.

2,164,069
PLASTER BASE UNIT
William J. Jordan, Jr., Algiers, La.
Application October 15, 1937, Serial No. 169,237
11 Claims. (Cl. 72—31)

1. A wallboard unit having a front surface, a rear surface, and two opposite side edges, each edge portion being of a thickness less than the thickness of the unit with a chamfer extending from said portion and merging into said front surface, a plurality of spaced recesses extending from said rear surface inwardly of the unit to a point substantially midway between said surfaces, said recesses extending inwardly from said edges and thereby forming an edge tab between each pair of recesses, said tabs and recesses having complemental configuration for interlocking purposes when two similarly formed units are placed edge to edge.



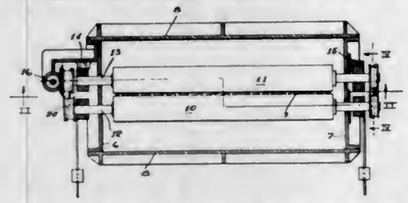
2,164,070
ATTACHMENT FOR WASHING MACHINES
Gustav B. Keil, St. Joseph, Mich., assignor to Nineteen Hundred Corporation, Binghamton, N. Y., a corporation of New York
Application November 3, 1936, Serial No. 108,925
4 Claims. (Cl. 68—13)



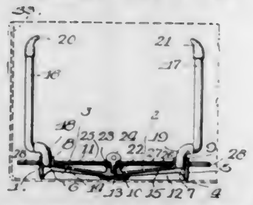
3. In a washing machine a tub, a shaft extending into said tub through the bottom of same, means beneath the tub for oscillating said shaft, an agitator mounted on said shaft for oscillatory movement therewith, and a cap for said agitator having a substantially cylindrical side wall and a substantially flat top, said side wall and top being formed with rigid scrubbing corrugations.

2,164,071
LEHR DRIVE FOR SHEET GLASS MACHINES
Don R. Limbers, Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application September 29, 1937, Serial No. 166,269
2 Claims. (Cl. 49—17)

1. In combination in a vertical lehr for drawing and annealing a glass sheet, a pair of opposing horizontal drawing rolls adapted to grip the glass sheet therebetween, one of which is mounted in fixed bearings, and the other mounted for movement toward and from the fixed roll, adjustable weighted means at each end of the movable roll tending to move such roll toward the fixed roll, a pulley wheel on each end of the fixed roll, a pulley wheel on each end of the movable roll, and a cross belt in the form of a spiral spring under tension at each end of the pair of rolls passing around the pulley wheel on the end of the fixed roll and the pulley wheel on the end of the movable roll, and serving to increase the pressure between the rolls.



2,164,072
BASTING DEVICE FOR COOKING MEATS, VEGETABLES, AND THE LIKE
George G. Kitzeman, Chicago, Ill.
Application February 25, 1937, Serial No. 127,626
9 Claims. (Cl. 53—6)



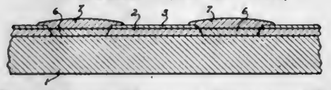
9. A basting device for food materials, comprising a shallow base portion adapted to be seated on the bottom of an ordinary cooking vessel, said base portion having formed in its under side a pair of symmetrically arranged shallow depressions, each of which gradually increases in depth from near the middle of the base portion outwardly toward the marginal edge, said depressions being of large area and small depth, means to permit the flow of liquid from the exterior of said depressions to the interior thereof, and basting tubes connected with said depressions at their portions of greatest depth, each of said tubes being angularly bent adjacent its lower end so that it is swingable into various positions to accommodate vessels of various sizes and give a variable range of distribution of the basting liquid.

2,164,073
HAIR DRESSING COMB
Arthur H. Madore, Los Angeles, Calif.
Application April 28, 1937, Serial No. 139,569
3 Claims. (Cl. 132—19)



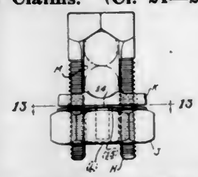
3. A hair dressing comb comprising a toothed comb body, a handle projecting from one end thereof, which handle is divided lengthwise to form a pair of substantially parallel fingers, a clip detachably mounted on said handle and a hair curling finger projecting from said clip and occupying a position substantially parallel with the divided portion of said handle.

2,164,074
PROTECTIVE LINER FOR DRUMS
Amaziah Jones Moses and Edward C. Chapman, Lookout Mountain, Tenn., assignors, by mesne assignments, to Combustion Engineering Company, Inc., a corporation of Delaware
Application December 11, 1935, Serial No. 53,838
7 Claims. (Cl. 29—162)



1. The method of protecting a carbon steel sheet comprising the steps of perforating a carbon steel sheet clad with corrosion resisting steel, placing the clad sheet against the carbon steel sheet with its carbon steel component adjacent to the carbon steel sheet connecting the carbon steel layer of the clad sheet to the carbon steel sheet by adding a layer of carbon steel which completely covers the bottom of the perforation and is fused to the carbon steel sheet and to the edge of the carbon steel layer of the clad sheet encompassing the perforation, and covering the added layer of carbon steel by fusing a layer of weld steel of at least approximately the same chemical composition as the cladding to it and to the cladding, said covering layer extending laterally at all points beyond the perforation and being fused to the cladding.

2,164,075
ELECTRICAL CONNECTOR
Lorence O'Russa, Princeville, Ill., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application July 22, 1937, Serial No. 154,947
2 Claims. (Cl. 24—243)

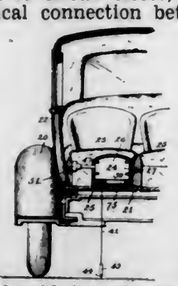


2. A wire connector comprising a bolt having spaced apart shank portions screwthreaded at their outer faces, a nut and washer assembly mounted on said spaced apart shank portions of said bolt, the washer of said assembly being entirely of substantially non-yielding construction, said nut being arranged to move said washer longitudinally of said bolt in a straight-line nonrotatable manner as the nut is screwed longitudinally of the bolt so as to clamp one or more elements between said washer and a part of said bolt, and a resilient element independent of said washer for applying spring pressure to the element or elements clamped by the connector, said resilient element being arranged in embracing relation with respect to said bolt.

2,164,076
MEANS FOR PREVENTING THEFT OF AUTOMOBILES
John L. Osgood, Buffalo, N. Y.
Application April 6, 1938, Serial No. 200,557
6 Claims. (Cl. 177—314)

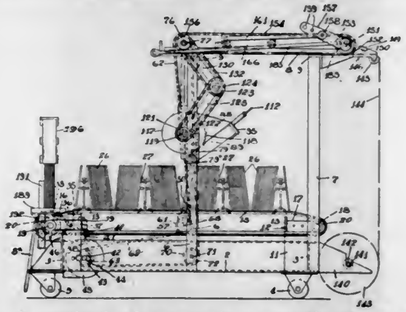
3. Theft-prevention means for automobiles, comprising an electro-mechanical device removable from and attachable to any automobile as a unit, an electric circuit including a manually actuatable circuit-closer adapted to be closed

upon leaving the automobile and having a source of low voltage current, transformer means to transform said current into high voltage current, a ground-contact, means to cause engagement of said ground-contact with the ground when closing said circuit-closer, said circuit including electrical connection between the high



voltage side of said transformer-means and a current-conducting portion of the automobile electrically connected with all other exposed current-conducting portions of the automobile and adapted to be completed by grounding the current through the body of a person coming in contact with the automobile.

2,164,077
GLASS HANDLING APPARATUS
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application July 19, 1938, Serial No. 220,052
17 Claims. (Cl. 216—1)

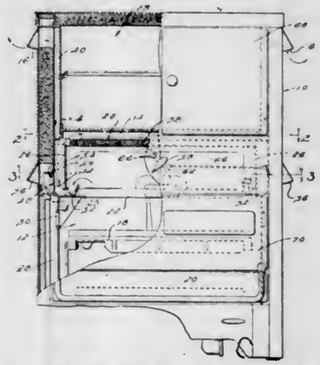


1. A method of separating smooth plates arranged in face to face contact, which comprises supporting them upon their edges in upwardly inclined position, engaging the supporting edge of the foremost plate simultaneously to lift the plate and to swing the bottom thereof forwardly, then pushing the top portion of the plate forwardly away from the plate with which it contacts.

13. Mechanism consecutively to separate plates of glass stacked in face to face contact, comprising an endless conveyor, a block mounted upon the conveyor to support the plates upon their edges in upwardly and rearwardly inclined position, a second block upon the conveyor in advance of the plates, and means to tilt the plates forwardly to rest against the latter block, and means to drop a sheet of paper behind each plate after it is tilted.

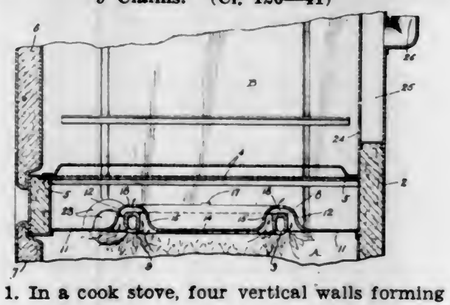
14. Mechanism consecutively to separate plates of glass stacked in face to face contact, comprising an endless conveyor, a block mounted upon the conveyor to support the plates upon their edges in upwardly and rearwardly inclined position, a second block upon the conveyor in advance of the plates, and means to tilt the plates forwardly to rest against the latter block, said means to tilt the plates comprising a reciprocating label magazine interconnected with the conveyor to oscillate as each plate is advanced, and carrying gummed labels so stacked that the back of the forward label engages the rear faces of the glass plates and a device to moisten the labels prior to contact with the glass.

2,164,078
STOVE
Claude E. Parker, Chicago, Ill., assignor to Gas Products Corporation, a corporation of Illinois
Application March 8, 1934, Serial No. 714,618
4 Claims. (Cl. 126—41)



1. A smokeless and odorless broiling stove comprising walls forming an enclosing casing, a support for the food to be cooked, a horizontally arranged burner above said support, horizontal baffle means in said casing in the plane of the burner to direct distillates from the food away from the casing walls and toward the burner, a metallic dome above the burner which traps products of combustion and unconsumed distillates and subjects such distillates to the heat within said dome, the heat within the dome also being radiated downwardly upon said support, means below the dome to permit the escape of the products of combustion, and means below the burner to admit secondary air to support combustion.

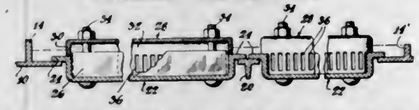
2,164,079
GASEOUS FUEL STOVE
Claude E. Parker, Chicago, Ill., assignor to Gas Products Corporation, a corporation of Illinois
Application January 10, 1936, Serial No. 58,463
9 Claims. (Cl. 126—41)



1. In a cook stove, four vertical walls forming

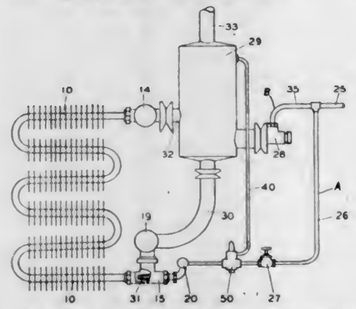
a broiling compartment, a burner in said compartment having downwardly directed port holes, a food support below the burner, an outer baffle plate extending across said compartment in the plane of the burner, from the said four walls of the compartment to a position close to the burner, the outer edges of said outer baffle plate being in contact with said four walls, and said baffle plate providing a restricted passage close to the burner, said burner being formed to extend around a space, and a baffle lying in said space in substantially the plane of the burner and extending close to the burner so as to provide a restricted passage between said baffle and the inner perimeter of the burner, the inner edges of said outer baffle plate and the outer edges of said inner baffle plate defining a relatively narrow slot for the passage of the products of combustion.

2,164,080
FRACTIONATING PLATE
William A. Peters, Jr., Seattle, Wash., assignor to E. B. Badger & Sons Co., Boston, Mass., a corporation of Massachusetts
Application July 21, 1937, Serial No. 154,780
4 Claims. (Cl. 261—114)



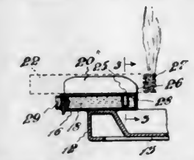
1. In a fractionating plate the combination of a supporting pan, a plurality of plate members having side walls and end walls, narrow end flanges on said plate members adjacent the upper edges of the end walls and engaging the supporting pan and similar flanges on adjacent plate members, the side walls on adjacent plate members being spaced apart to form vapor passages, bubble caps straddling the passages and extending downwardly between the side walls of adjacent plate members and bubble slots having upper edges disposed below the upper edges of the side walls whereby the joints formed by the flanges and supporting pan are adjacent the surface of liquid on the pan and the bubble slots are disposed substantially entirely below the joints.

2,164,081
REFRIGERATION CONTROL SYSTEM
Harry A. Phillips, Chicago, Ill.
Application April 12, 1937, Serial No. 137,320
6 Claims. (Cl. 62—2)



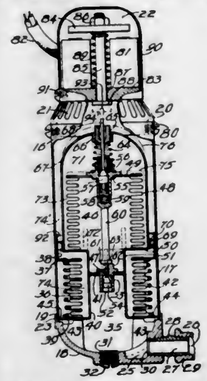
1. In the art of refrigeration, the method of feeding an evaporator circuit, maintained under vaporizing pressure, which comprises the division of the liquefied refrigerant supplied to said evaporator into a feed A and a feed B; continuously jetting said feed A, under greater pressure into said circuit to impel a current of liquefied refrigerant in said circuit; modulating the amount of said feed A in relation to the pressure existing in the evaporator; and supplying liquefied refrigerant to said circuit by said feed B, as required by load conditions and not supplied by feed A.

2,164,082
CIGARETTE EXTINGUISHER
Albert R. Pierce, Jr., South Dartmouth, Mass.
Application June 1, 1938, Serial No. 211,151
8 Claims. (Cl. 131—236)



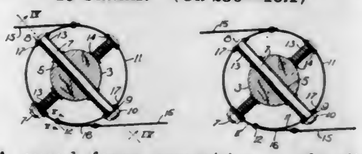
1. In a cigarette extinguisher, a member provided with a chamber adapted to contain a fire extinguishing medium, a heat conductive cover on said member provided with a channel adapted to form a rest for a lighted cigarette in which the ignited end thereof may rest horizontally, and found with an orifice communicating with said container to allow discharge of a quantity of the extinguishing medium into the rest and in contact with the burning end of a lighted cigarette, in response to pressure set up within said chamber due to heat from the lighted end of the cigarette, and in amount sufficient for extinguishing the cigarette.

2,164,083
HUMIDIFIER
Elmer A. Reid, Morrisville, Pa.
Application January 13, 1936, Serial No. 58,883
11 Claims. (Cl. 237—78)



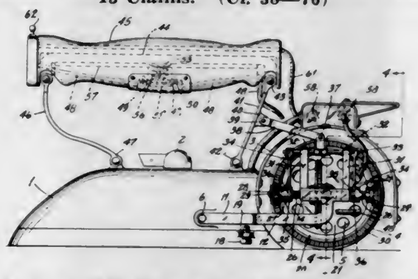
1. A humidifying device comprising a receptacle adapted for receiving steam from a steam supply and for emitting vapor; a compartment movable in said receptacle, said compartment having an inlet for the admission of steam; means in said receptacle confining within maximum limits of operation the movement of said compartment; an outlet valve for said compartment; and means causing said outlet valve to open for emitting vapor from said compartment as an incident to the movement of said compartment.

2,164,084
ROAD GUARD FENCE
Hayes Robertson, Chicago, Ill., assignor to The Translode Joint Company, Chicago Heights, Ill., a corporation of Illinois
Application February 20, 1937, Serial No. 126,772
19 Claims. (Cl. 256—13.1)



1. A guard fence comprising a plurality of spaced posts, spring cushioning means on the posts, means for supporting said spring cushioning means on the posts, and rail members positioned diagonally between the posts and supported under tension by the spring cushioning means.

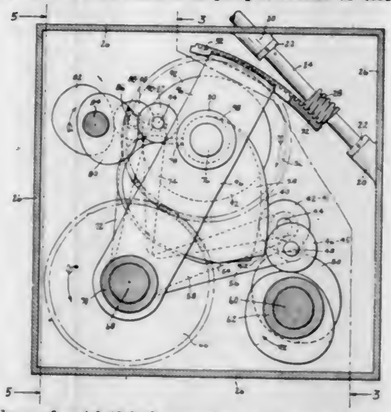
2,164,085
SELF-PROPELLED ELECTRIC IRON
Harris Rossen, St. Louis, Mo.
Application August 24, 1936, Serial No. 97,539
13 Claims. (Cl. 38—76)



1. In combination, an electric iron having a handle mounted for endwise movement in either direction, hanger bars pivotally secured to said iron, a traction drum rotatably mounted between the ends of said hanger bars, an electric motor in said traction drum, means for supporting said motor, drive gearing connecting said motor and said traction drum and means responsive to the direction of endwise movement of said handle for controlling the direction of rotation of said drum, said means including members actuated by either of the endwise movements of said handle.

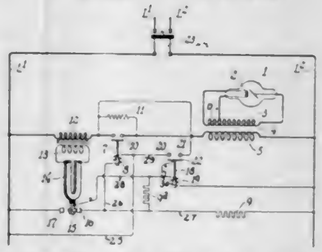
2,164,086
VARIABLE SPEED TRANSMISSION
Mack D. Rust, Memphis, Tenn., assignor of one-half to Daniel C. Hoffman, Philadelphia, Pa., and one-half to Alda V. Bedford, Collingswood, N. J.
Application May 18, 1935, Serial No. 22,157
21 Claims. (Cl. 74—124)

11. In a device for transmitting power at an adjustable speed ratio, an input driving member, an intermediate member, means for driving said intermediate member intermittently by said driving member such that the displacement of said intermediate member during a part of a cycle of motion is substantially proportional to the logarithm of the displacement of said input driving member, a second member, means for driving said second member by said intermediate member at a fixed speed ratio, means for adjusting the displacement between said intermediate member and said second member, a third member, means for driving said third member by said second member such that the displacement of said second member is proportional to the log-



arithm of said third member, an output member, and means for driving said output member by said third member during said part of said cycle.

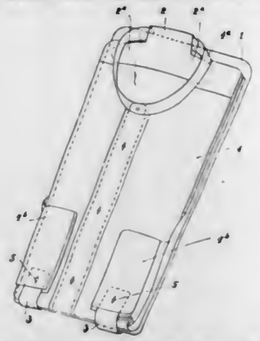
2,164,087
CIRCUIT CONTROLLING SYSTEM
Edwin W. Seeger and Glendon C. Brown, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application September 4, 1937, Serial No. 162,544
10 Claims. (Cl. 175—320)



1. The combination with a translating device and a source of energy therefor, of an impedance, electroresponsive switches to establish energy supply connections for said translating device inclusive and exclusive of said impedance, and control means for said switches comprising a thermal switch associated with said impedance to be thermally influenced by the current traversing said impedance, said thermal means controlling the time at which said impedance is excluded and determining the duration of the periods in which said switches effect supply of energy to said translating device with said impedance included and with said impedance excluded.

2,164,088
SHIRT BOARD
Oliver Bertrand Shepherd, Belfast, Northern Ireland
Application January 13, 1937, Serial No. 120,431
In Great Britain April 7, 1936
7 Claims. (Cl. 223—71)

1. A shirt board, comprising a base made from a single blank of pulpboard material having an inwardly-directed tongue cut from within the area of the base at the upper end thereof, and two inwardly directed tongues cut from within the area of the base adjacent the lower end thereof, the material of the base forming the tongues adjacent both ends of the base being deformed

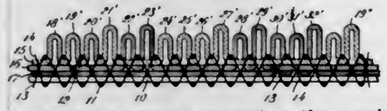


by scored lines to permit the tongues being doubled back to form shirt-engaging tabs projecting from the base and to permit the tabs being folded to engage the shirt, and the tongues at at least the lower end of the board having fastener-receiving apertures therein.

2,164,089
METHOD OF STABILIZING POTASSIUM IODIDE
John B. Shumaker, Des Moines, Iowa
No Drawing. Application February 17, 1938, Serial No. 191,025
2 Claims. (Cl. 23—243)

1. The process of dispersing potassium iodide through a mass of powdered limestone comprising, taking a quantity of oil, adding aluminum stearate to the oil, heating the mixture until the aluminum stearate dissolves in the oil, adding potassium iodide particles to the oil solution, milling the resulting mixture in a comminuting mill, suspending powdered limestone in air, and lastly spraying the mixture of potassium iodide, aluminum stearate and oil through the mass of the air suspended powdered limestone.

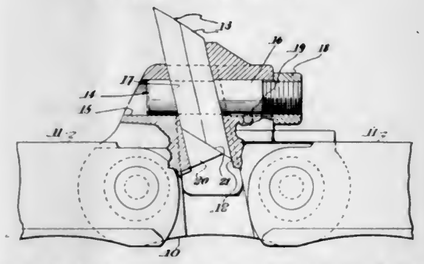
2,164,090
PILE FABRIC AND METHOD OF MAKING SAME
Howard L. Shuttleworth, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application February 23, 1939, Serial No. 257,904
15 Claims. (Cl. 139—406)



1. A pile fabric which comprises the combination of stuffer warps, weft shots lying above and below the stuffer warps, binder warps crossing the weft shots above and below and binding the weft shots in place, and a plurality of sets of pile warps held in place by portions lying between the upper and lower weft shots, other portions of the pile warps being raised between adjacent upper weft shots in accordance with a pattern to provide loops lying in rows extending transversely of the fabric, each row containing a full complement of loops and certain of the rows containing loops of different heights.

10. A method of weaving a pile fabric including stuffer warps, binder warps, weft shots, and a plurality of sets of pile warps, which comprises manipulating the several warps to form successive sheds, inserting the weft shots in the sheds both above and below the stuffer and pile warps and in position to be bound in place by the binder warps, raising the pile warps between adjacent upper weft shots in accordance with a pattern and lowering the pile warps about pile wires to provide loops of a single height, and subsequently reducing the height of all loops except the last in each longitudinal series of loops made of the same pile warp.

2,164,091
CUTTER CHAIN FOR MINING MACHINES
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 24, 1937, Serial No. 165,471
Renewed November 28, 1938
3 Claims. (Cl. 262—33)



1. In a kerf cutting chain, a chain block having a bit receiving aperture therein and a plurality of bits mounted in said aperture, each of said bits being of a relatively small cross section having their ends cut away to define cutting points, said bits being arranged in abutting relation with respect to each other in said aperture one behind the other so that one bit forms a reinforcing means for the other.

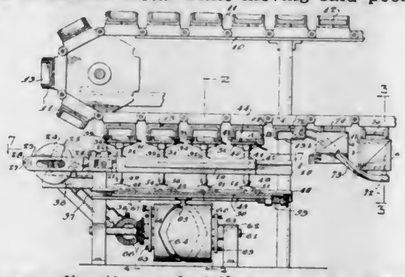
2,164,092
PROCESS OF PREPARING SOLID ALKALINE COMPOUNDS
George W. Smith, Pittsburgh, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application June 12, 1936, Serial No. 84,875
5 Claims. (Cl. 23—107)

1. A process of preparing solid alkaline compounds from alkaline solutions of an alkali-metal compound, which comprises reacting a molecularly dehydrated alkali-metal phosphate with the solution without application of extraneous heat and in such manner as to convert at least a part of the molecularly dehydrated alkali-metal phosphate into orthophosphate, the molecularly dehydrated alkali-metal phosphate being employed in amount sufficient to use up substantially all of the water of the alkaline solution, thereby producing a solid product.

2,164,093
METHOD OF JOINING GLASS BLOCK SECTIONS
Leonard D. Soubier, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application July 2, 1936, Serial No. 88,650
2 Claims. (Cl. 49—81)

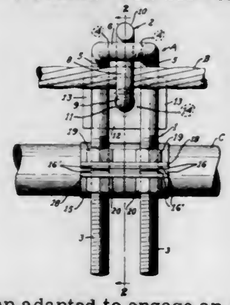
1. The method of joining the edges of preformed sections of hollow glass building blocks

which travel in molds toward the discharge end of a forming machine, which consists in submerging the edges of the traveling sections in a pool of molten metal while moving said pool in



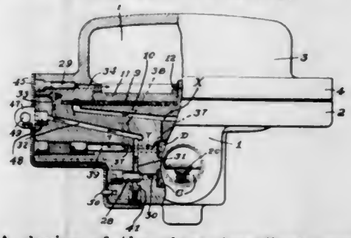
the same direction and at the same rate of speed as said edges to coat the same, causing said edges to be withdrawn from said pool and subsequently contacting said edges, one with another.

2,164,094
CLAMP
Oscar F. Tallman, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application June 18, 1938, Serial No. 214,451
7 Claims. (Cl. 248—61)



7. A clamp adapted to engage an elongated element of substantially circular cross-section including a clamping member, in the form of a U-bolt provided wtih a bridge portion at one end and having spaced, parallel vertical legs, said clamping member being bent adjacent to its bridge end to provide a portion that is disposed at an approximate right angle relative to the spaced, parallel vertical legs, a second clamping member which detachably engages the bridge portion of the first-mentioned clamping member, the first-mentioned and second-mentioned clamping members being provided with arcuate portions which contact with and partially surround the article being clamped, means for drawing said clamping members into clamping relation with respect to the article being clamped, said means comprising an element arranged in contact with the vertical legs of the first-mentioned clamping member and provided with an aperture through which a portion of the second-mentioned clamping member extends, and a nut mounted on the portion of said second-mentioned clamping member that extends through the aperture of said element, said nut tending to force the element into close contact with the vertical legs of the first-mentioned clamping member and draw the portion of the second-mentioned clamping member that extends through the aperture of said element longitudinally of said aperture, and means for clamping a second article to the first-mentioned clamping member, the last-mentioned means comprising a band which embraces the second article and is provided with extensions having apertures through which the vertical legs of the first-mentioned clamping member extend, and nuts on said vertical legs of said first-mentioned clamping member for forcing said extensions toward each other to tighten said band about the second article.

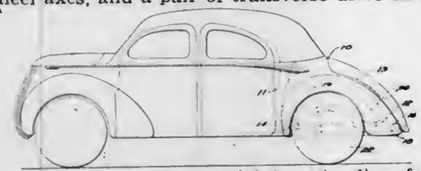
2,164,095
AIR-PRESSURE REDUCING AND REGULATING DEVICE
Frank E. Thomes, South Portland, and Albert E. Nugent, Portland, Maine, assignors to Industrial Development and Manufacturing Corporation, Portland, Maine
Application September 30, 1936, Serial No. 103,468
5 Claims. (Cl. 50—16)



1. A device of the class described comprising a body having a chamber into which fluid raised to a high pressure is admitted, and a chamber from which this fluid, after being reduced to a relatively lower pressure is discharged into a service line, a flexible diaphragm, a single-seat valve, opening and closing in response to movement of said diaphragm, disposed in said high pressure fluid chamber, the high pressure fluid acting, normally, to close the valve, a chamber above, and fully open to, said diaphragm, means to raise the pressure of the fluid in the last mentioned chamber to a predetermined point, recourse being had to the high pressure fluid supply, valve means to seal said last named chamber when the fluid has been raised to the predetermined pressure, a chamber beneath said diaphragm, in communication with the said discharge chamber, means to control, either to increase or decrease, the volume of fluid capable of passing between the two last mentioned chambers, an intermediate chamber disposed next adjacent said valve, said chamber having a vent capable of passing in extremely small volume the fluid it contains to the chamber beneath said diaphragm, the fluid passed being of slightly higher pressure than normally obtains in the discharge chamber, and a nozzle extending from said intermediate chamber, substantially through said discharge chamber, to said service line, whereby the fluid passing through the nozzle increases its velocity and produces a slight rarefaction of the fluid in said discharge chamber.

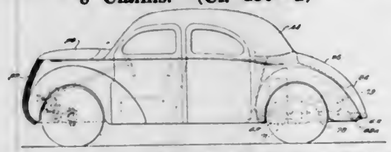
2,164,096
REAR WHEEL SUSPENSION AND ENGINE MOUNTING
John Tjaarda, Birmingham, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application April 4, 1936, Serial No. 72,721
Renewed December 24, 1938
12 Claims. (Cl. 180—54)

1. In an automobile, a pair of vertically movable wheels; an engine, transmission unit and clutch unit located in said order and in line transversely of the automobile entirely in advance of the transverse wheel axis, a final drive and differential unit positioned in rear of the transmission unit and normally substantially in line with the wheel axes, and a pair of transverse drive shafts



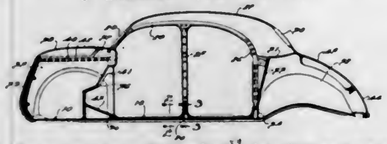
each including universal joints extending from the final drive unit to the wheels, the universal joints of one shaft being at a greater distance from said final drive unit than the universal joints of the other shaft.

2,164,097
AUTOMOBILE BODY
John Tjaarda, Birmingham, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application December 7, 1936, Serial No. 114,613
8 Claims. (Cl. 180—1)



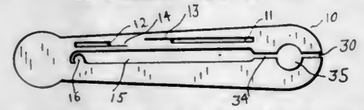
1. In a motor vehicle of the unitary body and chassis type having a passenger compartment, a transverse bulkhead, a rigid frame secured to said bulkhead, a combined power plant and driving wheels unit secured to said bulkhead and said frame, a reenforced floor structure secured to said bulkhead, said floor structure adapted to resist the driving thrust, a plurality of substantially vertical members secured by their lower extremities to the floor structure substantially at the longitudinal edges thereof, and a pressed metal roof sheet forming the sole connecting means transversely between the top extremities of said vertical members.

2,164,098
AUTOMOBILE BODY
John Tjaarda, Birmingham, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application October 22, 1937, Serial No. 170,476
9 Claims. (Cl. 296—28)



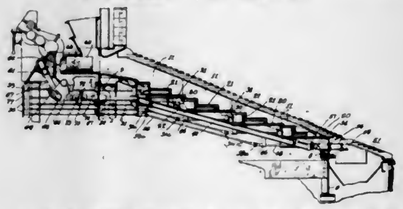
3. In a motor vehicle body having a passenger compartment, a pair of longitudinal frame members, a pressed metal floor pan secured to said frame members, substantially vertical pillars secured by their lower extremities to the floor pan, and a metal roof sheet forming connecting means transversely between the top extremities of said pillars, said floor pan having an integral inverted substantially U-shaped cross frame member extending transversely thereof and connected at its opposite ends to said pillars.

2,164,099
POWERED TOY AND ENERGIZING METHOD THEREFOR
Samuel Vetro, Rochester, N. Y.
Application June 25, 1937, Serial No. 150,372
10 Claims. (Cl. 46—75)



1. In combination a power device comprising resilient means adapted for controllably storing and releasing torque energy, means for imparting torque energy in bow drill fashion to said resilient means for storage therein, and means connected to said resilient means for utilizing said stored energy.

2,164,100
UNDERFEED STOKER
Richard Zinkernagel, New York, and George P. Jackson, Flushing, N. Y., assignors to Combustion Engineering Company, Inc., New York, N. Y.
Application January 14, 1936, Serial No. 59,046
7 Claims. (Cl. 110—44)



2. In a stoker having a retort comprising side plates and intervening bottom plates on which pushers are reciprocable to feed fuel along the retort; a pusher in said retort comprising; a frame or cradle; stepped plates mounted on said cradle for supporting and advancing the fuel; side plates freely mounted on said cradle below said stepped plates; and means carried by said cradle urging the side plates of said pusher against the side plates of said retort.

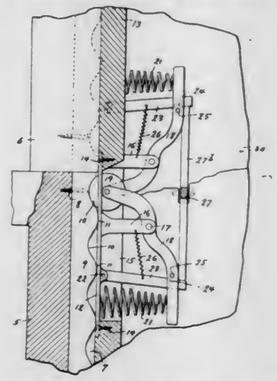
2,164,101
TREATING GUT
Nicholas M. Adams, Chicago, Ill., assignor to Wilson & Company, a corporation of Delaware
No Drawing. Application July 19, 1937, Serial No. 154,514
6 Claims. (Cl. 149—5)

1. The method of preparing animal gut which comprises immersing raw gut in an aqueous bath including a water soluble synthetic tanning agent for a period of at least several hours at a tempertature of the order of 35–50° F. to produce a toughened body throughout having upon drying a substantially greater tensile strength than the untreated gut.

2,164,102
WINDOW SASH HOLDER AND LOCK
Claude E. Axtell, Weed, Calif.
Application May 26, 1938, Serial No. 210,227
2 Claims. (Cl. 292—15)

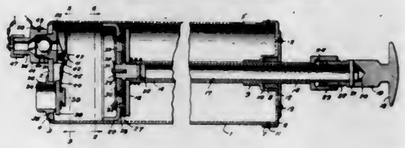
1. In a window holder and lock, and in combination with a window frame, detents mounted on the frame one for a lower window sash, and the other for an upper window sash, and each of said

detents including a pivoted lever provided with a keeper pin, a spring-biased latch bar for each lever having a free end provided with a notch to engage said keeper pin whereby to lock the lever against swinging movement, a locking bar pivotally mounted intermediate its ends interiorly of the window frame and having one end arranged



to engage the latch bar of one detent and a second end arranged to engage the latch bar of the other detent whereby to move said latch bars simultaneously out of engagement with the keeper pins, and manual means operable exteriorly of the frame for swinging the lock bar into and out of engagement with the latch bars.

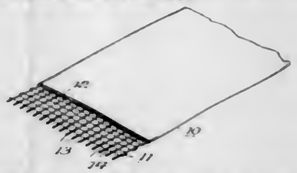
2,164,103
PUMP
Seymour J. Baum, Flushing, N. Y.
Application December 27, 1938, Serial No. 247,867
2 Claims. (Cl. 230—40)



1. In a pump having a cylinder and a piston rod, a perforate piston secured on the rod, an imperforate washer slidably mounted on the rod above the perforate piston, a tubular member slidable on the rod adapted to engage the imperforate washer, said tubular member extending with the rod outside of the cylinder and means for forcibly sliding the tubular member on the rod to force the imperforate washer into sealing engagement with the perforate piston.

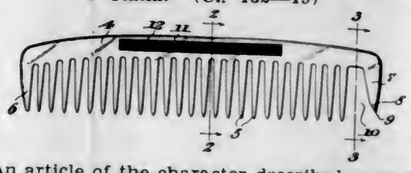
2,164,104
FLUX CARRYING TAPE AND METHOD OF ASSOCIATING SAME WITH A WELDING WIRE
Herbert C. Bereit, Cleveland, Ohio, assignor to Una Welding, Inc., Cuyahoga County, Ohio, a corporation of Ohio
Application March 29, 1939, Serial No. 264,831
14 Claims. (Cl. 219—8)

3. The method of metallic arc welding which consists in feeding a welding wire to a weld arc, substantially permanently deforming a flux carrying tape to substantially the external diameter of the welding wire and disposing said deformed tape about said wire and feeding said tape simultaneously with the wire to the arc.



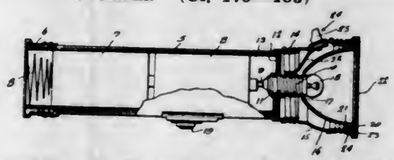
4. A tape of the character adapted to be disposed about an arc welding wire comprising a web strip constituting a flux carrier and including a substantially permanently deformable element which renders the tape self retaining of its shape when disposed about the welding wire, and flux material carried by said tape.

2,164,105
HAIR COMB
William Parker Brown, New York, N. Y.
Application January 3, 1939, Serial No. 249,111
1 Claim. (Cl. 132—19)



An article of the character described comprising, a hair comb having a back portion and rigid members projecting laterally from the ends thereof, the comb teeth immediately adjacent one of said lateral end members being removed to provide an appreciable space for the fingers thereat, said adjacent end member providing a hand gripping part, and the point of said hand gripping part being cut-away to provide further finger gripping space, substantially as set forth.

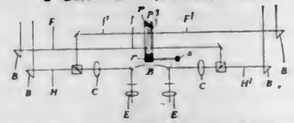
2,164,106
TEST LIGHT
Otha Cooksey, Louisville, Ky., assignor of fifty per cent to Stanley M. Gorgas, Louisville, Ky.
Application September 22, 1937, Serial No. 165,216
1 Claim. (Cl. 175—183)



A testing attachment for a flash light which includes a casing and a lamp bulb socket, comprising a member of non-conducting material having a reduced end fitting in an opening in the casing and having a socket in its other end, the rear portion of the wall of the socket having an opening therein, a screw passing through the member, a piece of non-conducting material covering the inner face of said portion of the casing having the opening therein and through which the screw passes, and an elongated spring member seated on the inner face of the piece of non-conducting material and having a threaded hole therein receiving the threaded inner end of the screw, said spring member contacting the lamp bulb socket and the head of the screw being located in the socket at the outer end of the

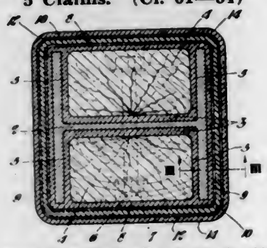
member of non-conducting material the walls of the socket surrounding the said head of the screw and projecting well beyond the head excepting at the opening in the socket.

2,164,107
RANGEFINDER AND LIKE OPTICAL MEASURING INSTRUMENT
James Weir French, Anniesland, Glasgow, Scotland, assignor to Barr and Stroud, Limited, Glasgow, Scotland
Application December 30, 1937, Serial No. 182,613
In Great Britain January 14, 1937
4 Claims. (Cl. 88—2.7)



1. A rangefinder or like optical measuring instrument operating on the stereoscopic principle, including optical means for forming a pseudo-stereoscopic pair of image-producing beams of light within the instrument, and comprising prism moving means and one, and only one, measuring prism to serve two beams of light, being placed in the paths of the two beams at a position where they proceed side by side and being movable angularly therein by actuation from said prism moving means, for effecting range measurement, involving equal vertical movements of the two associated images, each in its field.

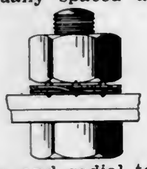
2,164,108
PROTECTED BEARING PILE
Gerald G. Greulich, Mount Lebanon, Pa.
Application September 9, 1938, Serial No. 229,178
5 Claims. (Cl. 61—54)



1. In a steel bearing pile, a protective covering therefor comprising filler blocks positioned between the flanges and web of said pile, and a layer of bitumastic material and fabric positioned around said bearing pile to completely encase said filler blocks.

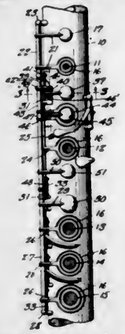
2,164,109
DOUBLE SAFETY WASHER FOR NUTS OF THREADED BOLTS
Igino Guiducci, Tivoli, Italy
Application February 6, 1937, Serial No. 124,510
In Italy February 6, 1936
2 Claims. (Cl. 151—41)

1. A double safety lock washer for nuts of threaded bolts, comprising two oppositely disposed duplicate washer members, each member including an annular body portion, a series of fins extending circumferentially in one direction and having the free ends thereof deflected laterally of one face of the body portion, a series of biting teeth projecting from the opposite face of the body and facing in the same circumferential direction as said fins, said biting teeth being arranged substantially perpendicular to the plane of the annular part of the washer and arranged at equally spaced arcuate distances



from each other, and radial tongues extending from and arranged in the plane of said annular body, said tongues and fins cooperating to form a locking engagement between the washer members.

2,164,110
CLARINET
John William Haynes, Susanville, Calif.
Application February 9, 1937, Serial No. 124,910
5 Claims. (Cl. 84—382)

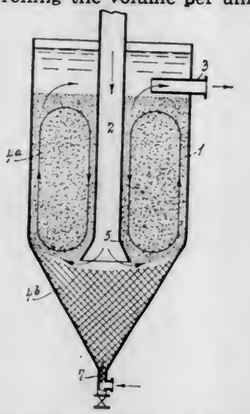


1. In a keyed wind musical instrument, such as a clarinet or the like, the combination with the regular normally raised pad over the regular B flat-E flat hole, the normally raised pad over the regular G sharp-C sharp hole and the regular normally raised ring key above the G-C natural hole, of a normally raised new pad with a surrounding raised ring key covering the regular A-D hole, a normally closed new pad covering a new B flat-E flat hole supplementary to the regular pad at the regular B flat-E flat hole, and articulated and split lever elements connecting the respective mountings of the several pads and ring keys whereby the pads other than said new B flat-E flat pad are actuatable independently of the latter by the fingers of the left hand but are actuated simultaneously with said new B flat-E flat pad upon the individual actuation of the latter by the fingers of the right hand.

2,164,111
APPARATUS AND METHOD FOR TREATING GRANULAR MATERIALS WITH FLOWING LIQUIDS
Finn Jeremiassen, Oslo, Norway, assignor to Aktieselskapet Krystal, Oslo, Norway, a Norwegian concern
Application March 27, 1936, Serial No. 71,340
In Norway March 30, 1935
4 Claims. (Cl. 23—1)

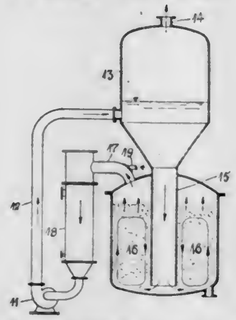
1. Method of crystallizing substances from solutions comprising maintaining a suspension of growing granules in an upwardly directed flow of supersaturated solution in a suspension space,

maintaining another body of substantially stationary granules below the said suspension of growing granules and below the upward flowing volume of supersaturated solution, forcing a downwardly directed stream of supersaturated solution into the suspension space at a point above the said body of substantially stationary granules and so as to impinge on the top surface of said stationary body of granules and to be deflected outwardlly in a substantially horizontal direction into the bottom part of suspension space, controlling the volume per unit of time of



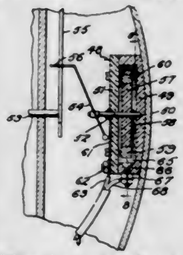
the said downwardly directed stream of entering supersaturated solution so as to enable it to impart to the bulk of the suspension a revolving movement in the suspension space, withdrawing liquid at a point above the revolving body of suspended growing crystals, and reintroducing supersaturated solution into the bottom part of the suspension space, and withdrawing granules from the bottom of the body of substantially stationary granules at such a rate as to maintain a substantially constant level of said stationary granules.

2,164,112
CRYSTALLIZATION PROCESS
Finn Jeremiassen, Oslo, Norway, assignor to Aktieselskapet Krystal, Oslo, Norway, a Norwegian concern
Application November 11, 1937, Serial No. 174,120
In Norway April 3, 1933
2 Claims. (Cl. 23—1)



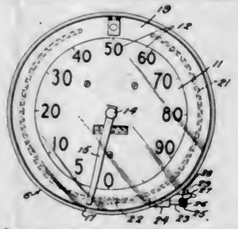
1. Method of producing crystals consisting in rotating a body of crystals suspended in a rising current of a super-saturated solution in an annular space, the crystals ascending with, traversing, descending against and traversing the current of the solution in the annular space, withdrawing the solution above the annular space and reintroducing same centrally of and at the bottom of the annular space in a substantially horizontal direction whereby the rotation of the crystals is effected, the cross-sectional area of the solution which is reintroduced into the annular space being only a small fraction of the horizontal cross-sectional area of the annular space.

2,164,113
SPEED CONTROL ATTACHMENT FOR SPEEDOMETERS
Paul Huber Kolb, Williamsport, Pa.
Application October 5, 1936, Serial No. 104,136
2 Claims. (Cl. 200—56)



1. The combination of a fixed dial and a hand rotatable over said dial and a transparent cover therefor with an electric circuit including a source of electric energy, a circuit maker and breaker secured to said cover and including a cup of insulating material, a cover of insulating material for said cup, a shaft rotatably mounted in said cup and its cover and projecting toward said dial, means connecting said hand to said shaft to transmit rotation from said hand to said shaft, a disc frictionally mounted on and angularly adjustable about said shaft, conducting liquid in said cup, a contact terminal mounted on the cover of said cup and electrically connected to said shaft, a contact strip radially mounted on said disc and connected to said shaft within the cup, a contact terminal extending through the rim of said cup into contact with the liquid conductor, said terminals being electrically connected only when the contact terminal on the disc is immersed in the conducting liquid.

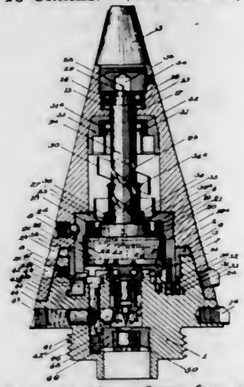
2,164,114
SPEED CONTROL FOR MOTOR VEHICLES
Paul Huber Kolb, Williamsport, Pa.
Application April 19, 1937, Serial No. 137,889
2 Claims. (Cl. 250—41.5)



1. A speed actuated switch comprising a fixed dial and a pointer rotatable over said dial, an annular disk angularly adjustable on said dial about the axis of said pointer and extending beyond the periphery of said dial, said disk being provided with an aperture through the part

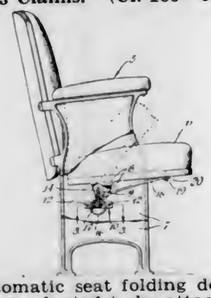
thereof projecting beyond the periphery of said dial, a source of light and a photoelectric cell mounted on opposite sides of said disk so that the rays of light from said source of light pass normally through said aperture to said cell, and a control circuit including a switch operable by said photoelectric cell when said pointer intercepts said light rays.

2,164,115
TIME FUSE FOR PROJECTILES
Jean Lasserre, Menneval, near Bernay, France, assignor to S. A. Recherches Etudes Applications Techniques R. E. A. T., Geneva, Switzerland, a corporation of Switzerland
Application January 29, 1936, Serial No. 61,381
In France February 11, 1935
16 Claims. (Cl. 102—36)



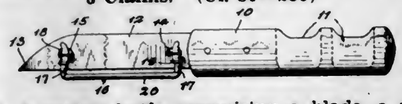
1. A mechanical time fuse for artillery projectiles having a hollow body, a mechanism for regulating the operation of the time fuse comprising a motor mounted in said body and connected thereto, a rotor connected to said motor to be rotated thereby, a clock mechanism entirely lodged in said rotor and connected to said fuse body for controlling the speed of rotation of said rotor.

2,164,116
AUTOMATIC SEAT FOLDING DEVICE
John Lincoln, Gary, Ind.
Application November 25, 1938, Serial No. 242,382
3 Claims. (Cl. 155—85)



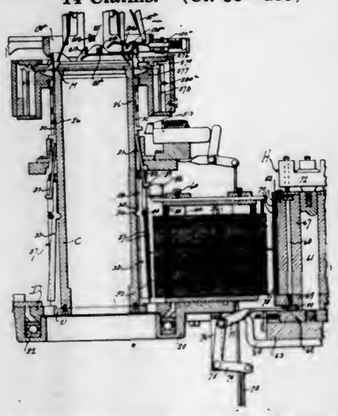
1. An automatic seat folding device, comprising, a bracket adapted to be attached to a chair standard having pivoted thereto a seat, said bracket fashioned with an arm terminating in a check member, and a spring attached to said arm and having a section for attachment to said seat and underlying and engaging said member whereby to maintain said seat in a desired folded position.

2,164,117
PARING KNIFE
William J. Mack, Buffalo, N. Y.
Application August 10, 1938, Serial No. 224,186
3 Claims. (Cl. 30—283)



1. A paring knife comprising a blade, a pair of ears on a flat face of the blade, spaced medially and longitudinally thereof, a spring steel wire guard having an offset leg member at the ends extended at an angle to frictionally engage an aperture in the ears, a stop lug on the leg members cooperable with the ears to limit inward movement of the legs within the apertures, and the major portion of the length of the wire lying parallel but spaced outwardly of the cutting edge of the blade.

2,164,118
KNITTING MACHINE
Harry McAdams, Reading, Pa., assignor to Nolde and Horst Company, Reading, Pa., a corporation
Application December 21, 1933, Serial No. 703,483
14 Claims. (Cl. 66—135)



1. A circular knitting machine having a needle cylinder with slots therein, a circle of knitting needles in the slots, jacks in the slots for the needles, said jacks having butts thereon, a cam for elevating said jacks through said butts in order to elevate the needles, spring means normally maintaining said jack butts out of operation with said cam, pattern jacks in the slots below said first mentioned jacks transversely movable at the upper ends thereof so as to move the first mentioned jacks respectively associated therewith transversely into operative relation with said cam, said last mentioned jack having butts thereon and individually movable pattern controlled presser cams for selectively operating said pattern jacks.

2,164,119
KNITTING MACHINE
Harry McAdams, Reading, Pa., assignor to Nolde and Horst Company, Reading, Pa., a corporation
Application June 14, 1934, Serial No. 730,666
4 Claims. (Cl. 66—135)

1. In a circular rotary knitting machine the

combination of a cylinder, needles for the cylinder, means for feeding yarn to the needles and cooperatively actuating the needles for knitting a plurality of courses during a single revolution, and means cooperating with the last mentioned means for knitting patterning yarns in wrap



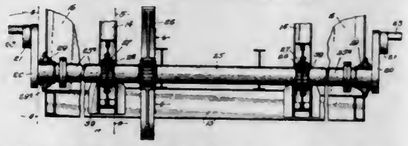
within wrap patterned effect upon selected needles in a course of the fabric, and knitting a wrap yarn upon selected needles in the next succeeding course formed during the same revolution as the course wherein the other patterning yarns are knitted.

2,164,120

WALKING MECHANISM

John W. Page, Chicago, Ill., assignor to Page Engineering Company, Chicago, Ill.

Application December 14, 1938, Serial No. 245,734
3 Claims. (Cl. 180—8)



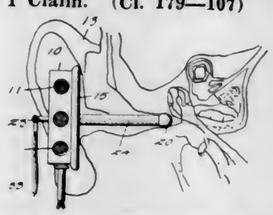
1. Apparatus of the character described, including: a main base; a machinery supporting superstructure mounted thereon with longitudinal trusses; propelling members at the sides of the apparatus; a transverse driving shaft for the propelling members, said shaft having bearings in the longitudinal trusses; and outriggers carried by the superstructure having bearings for the outer ends of the driving shaft.

2,164,121

ELECTRIC HEARING APPARATUS FOR THE DEAF

Héctor Pescador, Mexico, D. F., Mexico

Application May 4, 1938, Serial No. 206,051
1 Claim. (Cl. 179—107)



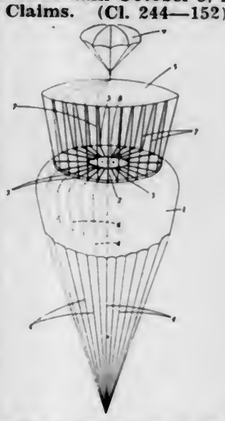
An electric hearing apparatus for the deaf, comprising an ear phone magnet, a diaphragm vibrated by the magnet, a metal rod extending through the center of the diaphragm, means for connecting the rod to the diaphragm to permit the rod to be adjusted axially with relation to the diaphragm, a spherical head on the inner end of the rod adapted to contact with the auditory members of the human ear, a transformer of audio frequency current having two secondaries, a circuit electrically connecting one of the secondaries and the magnet, a circuit electrically connecting the other secondary to the rod, capacities in the last named circuit, and a separate source of electricity connected in the last named circuit, the arrangement being such that sound vibrations and an electric current modulated by the sound vibrations may be simultaneously applied through the metal rod and spherical head to the auditory members of the human ear.

2,164,122

PARACHUTE

Joseph Harbit Pool, Henlow Camp, England, assignor to Irving Air Chute of Great Britain Limited, Letchworth Herts, England, a corporation

Application October 2, 1936, Serial No. 103,754
In Great Britain October 3, 1935
9 Claims. (Cl. 244—152)



1. In a parachute construction the combination of a canopy body having a vent opening therein, a cover for said vent opening, and means connected with said cover including a plurality of lines also connected across the vent opening and slidably connected with the canopy body surrounding the vent opening and of such length whereby the cover prior to full deployment of the canopy body will be spaced from the vent opening to permit of a substantial venting of air therethrough and upon greater deployment of the canopy body the said means connecting the closure with the canopy body will automatically pull the closure towards the vent opening for reducing the effective venting area thereof.

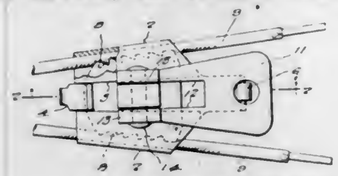
2,164,123

FASTENER FOR SHOELACES

Clarence Rio, Tyler, Pa.

Application November 21, 1938, Serial No. 241,659
3 Claims. (Cl. 24—117)

2. A fastener for the ends of shoe laces comprising an outer shell-like clamping member of wedge shape in cross section having open front and rear ends for the passage of said ends of the lace through the member and comprising rolled forwardly converging sides spaced apart to provide a central longitudinal top slot in said member, a wedge-shaped block-like inner clasp member longitudinally slidable forwardly in said outer member for cooperation with the sides of the outer member to clamp said ends of the lace between said members and coacting devices on said members, respectively, for locking the inner member in forwardly slid position, comprising a



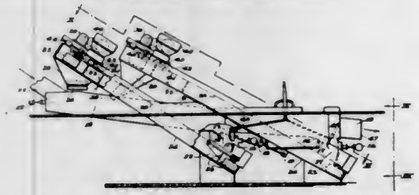
tongue on one end of the outer member, and a dog pivoted on the inner member for manipulation to attach the same to said tongue, and a stop tongue on the front end of the outer member yieldingly limiting forward movement of the inner member.

2,164,124

MINERAL SORTING LAUNDER APPARATUS

Homer B. Slater, Pittsburgh, Pa., assignor to Koppers-Rhcolaveur Company, a corporation of Delaware

Application November 15, 1937, Serial No. 174,570
6 Claims. (Cl. 209—155)



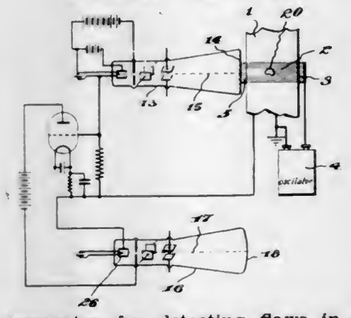
1. Wet sorting apparatus for classification of minerals in a liquid stream comprising: an inclined launder having an upper and a lower evacuating box depending at spaced intervals, each of the boxes being provided at its lower part with a discharge chute and at its upper part with a valve-regulated discharge opening-means opening into the base of the launder and also with means at its upper part for supplying an upwardly flowing current through the opening means into the base of the launder, for discharge of sorted denser materials from the base of a stream of material in the launder into the lower chute part of the evacuating box; and sheathed elevator means individual to the respective evacuating boxes, the elevator means each comprising an endless chain conveyor rotatable in an inclined trough, with the boot or sump of the elevator means at the level of the lower part of the evacuating box beneath the level of the base of the launder, and the upper discharge head portion of the elevator means located upstream of the launder above the level of the upper surface of the upstream portion; and in which the lower chute portion of the evacuating boxes also constitutes the boot or sump for their respective elevator means; and in which the respective elevator means are disposed one above the other and each has its working strand and its trough on one side and its return strand on the opposite side of the launder; and in which the lower return bend portions of each of the endless chains extend across the launder underneath the same and are operatively disposed inside their lower chute boxes that constitute the boot or sump for their elevator means, so that the return bend portions of the chains themselves act in the lower chute portions to pick up the denser material in the lower chute portions; and in which the return bend portions of the chains at the heads of the elevator means also extend across the launder but over the upper surface of the upstream portion of the launder and have their upper head discharge portions adjacent the upper return bend portion of the endless chain.

2,164,125

MEANS FOR INDICATING FLAWS IN MATERIALS

Sergey Sokoloff, Leningrad, Union of Soviet Socialist Republics

Application August 21, 1937, Serial No. 160,344
In Union of Soviet Socialist Republics June 8, 1937
3 Claims. (Cl. 73—51)



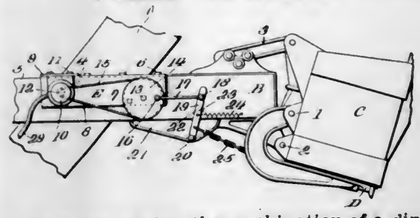
2. Apparatus for detecting flaws in articles and for producing a visible image thereof comprising in combination, a high-frequency generator, a quartz plate for generating ultra-acoustic oscillations under action of the generator current arranged against one side of the article to be examined, means for applying the high frequency current to said plate, a second quartz plate arranged against the opposite side of the article and receiving the oscillations passing through the article, an electron ray tube arranged with an end thereof adjacent the second quartz plate, a second electron ray tube serving as a receiver and having a screen upon which the visible image of the outline of the flaw appears, which image corresponds to the spatial distribution of the electric charges on the second quartz plate.

2,164,126

ELECTRICALLY OPERATED DIPPER TRIP

Woodrow Wilson Stevens, Paducah, Ky., assignor of one-half to William B. Stone, Paducah, Ky.

Application November 10, 1938, Serial No. 239,871
4 Claims. (Cl. 214—146)



1. In an excavator, the combination of a dipper stick carrying a dipper bucket provided with a dump door, a latch for said door, a plate extending outwardly at right angles from said stick, an electric motor mounted on the under side of said plate and protected thereby from falling rock and dirt during the digging operation of said

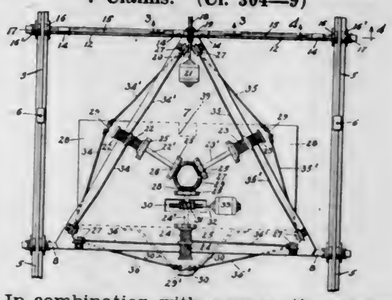
dipper bucket, a pulley rotatably mounted on the side of said dipper stick, a drive belt interconnecting said motor and said pulley, a bracket extending downwardly from said dipper stick, a lever pivotally mounted on said bracket, a connecting rod eccentrically connected to said pulley and connected to said lever to oscillate the same when said pulley is rotated, a stop pin, resilient means normally holding said lever against said stop pin, a chain interconnecting said lever and said latch, a source of electric current having connection with said motor through a relay switch, and a second switch positioned convenient to the operator of said excavator and in the circuit to said motor for causing the operation of said relay switch to control the delivery of current to said motor.

2,164,127
OIL PRESS MAT
George V. Sumner, Columbia, S. C., assignor of one-half to Frank Sumner, Montreal, Quebec, Canada
Application January 14, 1938, Serial No. 185,057
3 Claims. (Cl. 139—426)



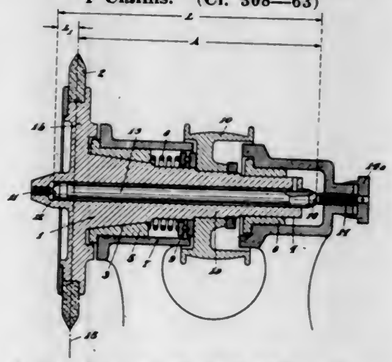
1. An oil press mat consisting of interwoven longitudinally extending warp and transversely extending woof cords, said mat being longitudinally extensible when subjected to tension in the direction of the warp cords and longitudinally contracting when such tension is relieved, a substantial number of such warp cords being fabricated of cotton fiber, each such cotton warp cord having a plurality of strands each twisted in the same direction, and each strand consisting of a plurality of threads each twisted in the same direction as the strands.

2,164,128
MEANS FOR SUSPENDING AND MOVING A PLATFORM OR THE LIKE
Arthur L. Medenwald, Los Angeles, Calif., assignor to Earl B. Spencer and George B. Morris, Los Angeles, Calif., co-partners doing business as Spencer & Morris
Application April 11, 1938, Serial No. 201,283
7 Claims. (Cl. 304—9)



1. In combination with a supporting structure having travel ways, and a movable structure mounted thereon to travel on said ways, a work platform suspended from said movable structure by cables, said cables running from three operating drums triangularly positioned on said structure, with means for simultaneously operating the same to take up and let out said cables, said cables being angularly extended inwardly to three triangularly positioned attaching members on said work platform below, whereby said cables operate as combination suspension and guy-wire cables to raise and lower said work platform and to prevent swinging movement thereof.

2,164,129
MACHINE-TOOL SPINDLE
Fernand Turrettini, Bellevue-Geneva, Switzerland, assignor to the firm Societe Genevoise d'Instruments de Physique, Geneva, Switzerland, a firm of Switzerland
Application June 16, 1938, Serial No. 214,121
In Switzerland March 31, 1938
4 Claims. (Cl. 308—63)



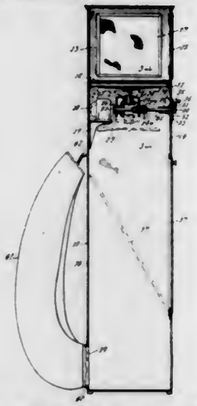
1. A machine-tool spindle having a portion thereof remaining in a constant transverse plane irrespective of thermal expansion due to heating of the spindle when operating, said spindle having a spindle body provided with an axial bore, a bearing member for said spindle body, and a rod disposed within said bore, said rod consisting of substantially nonexpansible material, said bore being provided with a thrust surface disposed in proximity to said transverse plane and bearing against one end of said rod, the other end of the rod abutting against said bearing member.

2,164,130
PARACHUTE APPARATUS
George Waite and Harold G. Rogers, Buffalo, N. Y., assignors to Irving Air Chute Co. Inc., Buffalo, N. Y., a corporation
Application August 5, 1936, Serial No. 94,470
7 Claims. (Cl. 244—151)



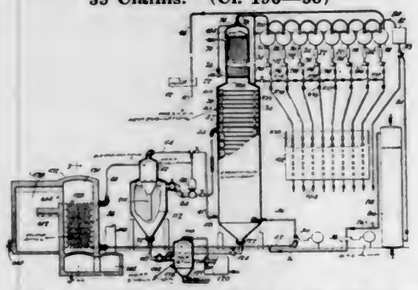
1. In a parachute harness the combination of body harness including riser webs, and pack coupling parts slidably movable along the riser webs for releasable connection with a parachute pack.

2,164,131
VACUUM CABINET FOR MOPS
Paul Bischof, New York, N. Y.
Application June 16, 1938, Serial No. 214,157
4 Claims. (Cl. 15—15)



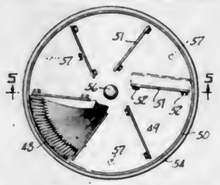
4. A device of the class described comprising a cabinet having an opening in its front wall near the top, a horizontal screen mounted within the cabinet near the base of said opening, a motor mounted below said screen and having its shaft extending horizontally therefrom, a vertical fan shaft geared to said motor shaft and having a fan rigid on its upper end lying normally just below said screen, said fan being adapted to function as a suction fan to suck air down through said screen in one position and as a blower fan to force air upward through said screen when in a position at 180 degrees therefrom, said cabinet having a door in said front wall below said motor, said door being horizontally hinged on its bottom and being adapted to swing inward until its upper edge contacts the rear wall of the cabinet, said door in said inwardly swung position serving as a baffle to guide incoming air through said door opening upward toward said fan when the latter functions as a blower fan, said cabinet having an opening through its rear wall at the bottom thereof adapted to have a dust-collecting bag secured thereto.

2,164,132
PROCESS AND APPARATUS FOR DISTILLING OIL
Henry L. Doherty, New York, N. Y., assignor, by mesne assignments, to Power Patents Company, Jersey City, N. J., a corporation of Maine
Application February 24, 1920, Serial No. 361,030
35 Claims. (Cl. 196—58)



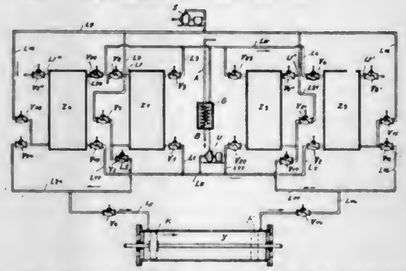
12. A process of distilling oil comprising continuously circulating oil under pressure through a pipe still heater in a stream to raise it to a cracking temperature, introducing the oil from the heater into an enlarged zone to separate vapors from the unvaporized oil, of said stream maintaining in said zone an enlarged body of separated oil under cracking conditions of pressure and temperature without material agitation for a sufficient period of time to promote cracking reactions, then bringing oil of said body into contact with the separated vapors to be reheated and thoroughly agitated to remove vapors therefrom, subjecting vapors from the agitated body of oil to reflux condensation to hold back high boiling point products and condensing gasoline-like vapors.

2,164,133
FILING BOX
Alexander Efron, New York, N. Y., assignor to Checkmaster Plan, Inc., New York, N. Y., a corporation of New York
Application November 16, 1938, Serial No. 240,607
9 Claims. (Cl. 45—3)



1. A filing box for rectangular sheets of the character described, comprising a bottom wall, a substantially circular side wall, a series of upright partitions extending outwardly from the midportion of the box, each partition being arranged in a plane whose line of intersection with the bottom wall is tangential to a circle concentric with the center of the box, and means for mounting each partition for swinging movement about a horizontal axis.

2,164,134
METHOD AND MEANS FOR OBTAINING POWER OUTPUTS
Hermann Hähnle, Giengen-on-the-Brenz, Germany
Application February 17, 1936, Serial No. 64,415
In Germany April 2, 1932
10 Claims. (Cl. 60—59)



1. The device which comprises at least two containers adapted to be filled with a gaseous medium, a heat exchanger of constant dimensions, means supplying heat to said heat exchanger, means connected with said containers and adapted to remove the heated gaseous medium from said containers to carry out useful work, and means connecting said containers with said heat exchanger, and comprising means for supplying fresh gaseous medium in said containers one after

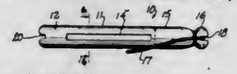
the other and therefrom to said heat exchanger, and for removing it from said heat exchanger to one of the containers, whereby the gaseous medium in said containers is caused to flow continuously and consecutively through said heat exchanger and is removed from the device to carry out useful work.

2,164,135

HAIR CURLER

Geraldine Kassover, Bayonne, N. J.

Application May 27, 1938, Serial No. 210,325
9 Claims. (Cl. 132—40)



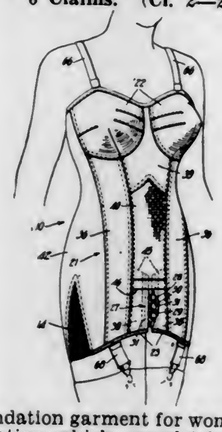
1. A device including a hair curler having a straight one piece wooden member having a head portion and a pair of spaced parallel fingers projecting therefrom and affording a hair receiving opening therebetween, said fingers having longitudinal closed ended slot openings, the free ends of said fingers having notches, an elastic loop element threaded through the slot openings and being releasably engageable in said notches, said fingers having laterally projecting stops adjacent to the head portion, and the opening between the fingers extending toward the head portion beyond said stops.

2,164,136

FOUNDATION GARMENT FOR WOMEN

Joseph Leonard, Allentown, Pa., assignor to Charis Corporation, New York, N. Y., a corporation of New York

Application March 8, 1939, Serial No. 260,530
6 Claims. (Cl. 2—27)



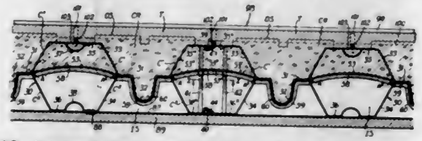
1. A foundation garment for women comprising a body portion which completely encircles the figure and extends down below the hips along the upper part of the thighs of the wearer; the lower portion of the body of the garment covering the hips and thighs being divided vertically in the center in front from the bottom edge of the garment up to a point substantially midway between the umbilicus and the pubic bone of the wearer in standing position, and being provided with a row of eyelets along the edges on each side of the division line, a lacer connecting the said eyeletted edges for affording lateral adjustment of the body of the garment about the hips and thighs; the upper portion of the body of the garment in front above the said eyeletted edges being formed with a centrally positioned, vertical, thin elastic panel, the lower edge of the elastic panel overlapping the said eyeletted edges at the top thereof; an inner belt underlying the said elastic panel; means for detachably connecting the inner belt to the inside of the garment, the construction and arrangement being such as to provide for both vertical and lateral adjustment of the inner belt with the lower edge of the inner belt in front underlying the top of the said vertically divided portion of the body of the garment covering the hips and thighs; the said elastic panel extending at the top to a line not substantially below the top of the said last named means to be utilized in said vertical adjustment of the inner belt.

2,164,137

BUILDING CONSTRUCTION

Bernard London, New York, N. Y.

Application March 5, 1938, Serial No. 194,051
31 Claims. (Cl. 72—71)



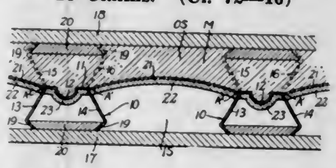
12. In building construction, in combination, a built-up core mold comprising a plurality of individual longitudinally extending spaced means of sheet metal, each substantially U-shaped in cross-section, with individual sheet means having connections to and bridging between the ends of adjacent arms of successive spaced means and along a general plane spaced from the bases of said U-shaped means, with concrete filling said U-shaped means and extending across said sheet means to terminate in a plane spaced from the plane of the bases of said U-shaped sheet metal means.

2,164,138

BUILDING CONSTRUCTION

Bernard London, New York, N. Y.

Application March 5, 1938, Serial No. 194,052
13 Claims. (Cl. 72—16)



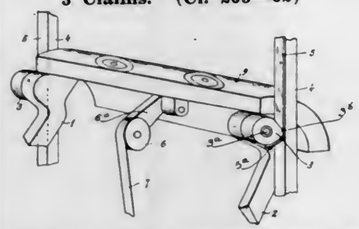
1. In building construction, in combination, a plurality of spaced structural supporting members having opposed edge faces respectively alined along two spaced planes, said members carrying wall surfacing means alined along said edge faces, said members having web-like means intermediate of the opposed edge faces thereof, each of said supporting members having on each side thereof and extending lengthwise means coacting with said web-like means and forming a longitudinally extending channel, and means of sheet-like material bridged across between adjacent supporting members and having its opposed edges received respectively in the channels of the two supporting members between which it extends thereby to divide the space between the planes of said opposed edge faces into two spaces, said channels holding said sheet-like means at the edges thereof to resist thrusts from either of the two spaces.

2,164,139

OPTICAL BALANCE

Philip Luteraan, Bagnolet, France

Application June 6, 1936, Serial No. 83,903
In France December 10, 1935
3 Claims. (Cl. 265—62)



1. Suspending and actuating device for the movable member carrying the indicating member of a balance, comprising a pendular body forming a counterweight, means rigidly fastened to said body for supporting the indicating member, an actuating cam fixed on said body, a flexible actuating band transmitting traction from the weighing mechanism of the balance to the pendular body, said actuating band passing on said actuating cam and being fixed to the same, two fixed vertical guide tracks, two suspension cams fixed to said pendular body, flexible suspension bands suspended to extend downwardly along said guide tracks, said bands passing under said suspension cams and being fixed to the same, said actuating band passing on the actuating cam on the side opposite to the side on which the suspension bands pass under the suspension cams, whereby the last mentioned cams and the suspension bands are held against the guide tracks by traction acting upon the actuating band.

2,164,140

METHOD OF CONVERTING NATURAL RUBBER OR THE LIKE QUICKLY INTO RUBBER HYDROCHLORIDE

Gengo Mochizuki, Shiba-ku, Tokyo, Japan, assignor of one-half to Masataro Konishi, Saitama-ken, Japan

No Drawing. Application October 12, 1937, Serial No. 168,569
1 Claim. (Cl. 260—111)

The method of producing rubber hydrochloride which consists in forming a solution of approximately 10 parts of raw rubber in approximately 500 parts of benzol, adding 0.1 to 0.5 part of stannic chloride to said solution, and causing hydrogen chloride in gaseous state to be blown into said mixture.

2,164,141

CAUSTICIZATION OF SOLUBLE SULPHIDES

Hugh Kelsea Moore, York Harbor, Maine, assignor to Brown Company, Berlin, N. H., a corporation of Maine

Application June 23, 1936, Serial No. 86,765
2 Claims. (Cl. 23—185)

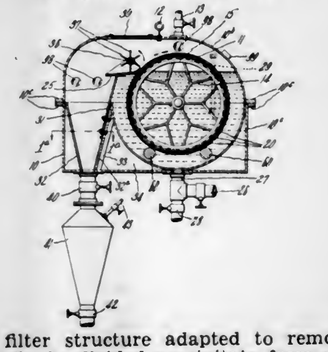
1. A process of causticizing an alkali metal monosulphide solution with copper oxide, which comprises continuously and simultaneously feeding a stream of monosulphide solution and a stream of finely divided copper oxide into a mixing and reacting chamber while subjecting said copper oxide in contact with such solution in the chamber to abrading and pounding action, thereby promoting practically immediate and complete causticizing reaction by the copper oxide on a chemical equivalent of sulphide in solution, continuously emitting from the chamber as a stream the causticized solution continuously being formed therein, and controlling the rate of feed of the stream of monosulphide solution relative to the rate of feed of the stream of finely divided copper oxide into the chamber to ensure a continuous emission from the chamber of a causticized solution substantially free from dissolved sulphide and copper constituents.

2,164,142

METHOD OF AND MEANS FOR FILTERING FINELY DIVIDED SOLIDS FROM FLUID SUSPENSION

Hugh Kelsea Moore, York Harbor, Maine, assignor to Brown Company, Berlin, N. H., a corporation of Maine

Application June 23, 1936, Serial No. 86,768
12 Claims. (Cl. 210—199)



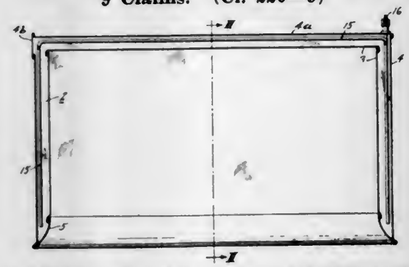
1. A filter structure adapted to remove extremely finely divided precipitate from aqueous suspension comprising a medium whose pores and openings are of such fine size as to retain thereon precipitated calcium carbonate of the character of lime sludge while permitting free flow of aqueous medium therethrough and a layer of precipitated calcium carbonate of the character of lime sludge deposited on said medium and capable of retaining thereon and therein precipitates of a particle size finer than itself.

2,164,143

INSULATION

Carl Georg Munters, Stockholm, Sweden, assignor to Aktiebolaget Termisk Isolation, Stockholm, Sweden, a corporation of Sweden

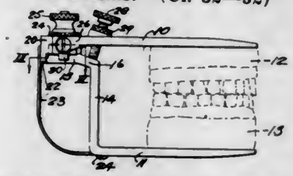
Application November 1, 1935, Serial No. 47,825
In Sweden November 10, 1934
9 Claims. (Cl. 220—9)



1. Method of making a heat insulating structure which includes forming a container of thin, flexible material, filling the container with a finely divided solid material, holding the container to its ultimate shape while pressing in the filler

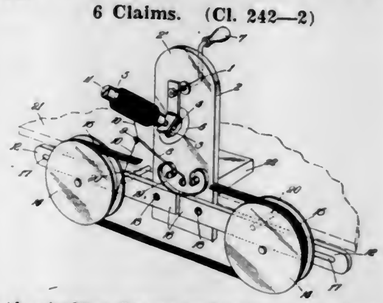
into the container so that the filler exerts a mechanical pressure against the container, closing the container, and removing gas from within the container, whereby preponderance of external gaseous pressure is offset by the pressure exerted by the filling material.

2,164,144
DENTAL ARTICULATOR
Ralph A. Pittman, Eldorado, Ark., and Joseph A. Gardner, Memphis, Tenn.
Application January 28, 1937, Serial No. 122,698
5 Claims. (Cl. 32—32)



3. A dental articulator having a pair of model holders spaced apart, a member projecting from the rear end of a first said holder toward the second thereof and terminating in a rearward extension, a pin secured to said extension and projecting therefrom toward, and beyond, said second holder, a block, longitudinally slotted to receive said pin, disposed thereover and against said extension, means on said pin adapted to slidably retain said block, said block having a flanged portion complementary to the end of said extension, and adapted to cooperate with said end to longitudinally center said block, a spring secured to said first holder, engaging and urging said flange against said end, and means hinging the rear of said second holder to the laterally opposite sides of said block.

2,164,145
WOOL WINDER
Reginald George Pluckrose, Woodford Green, England
Application May 10, 1938, Serial No. 207,017. In Great Britain and Northern Ireland March 17, 1937
6 Claims. (Cl. 242—2)

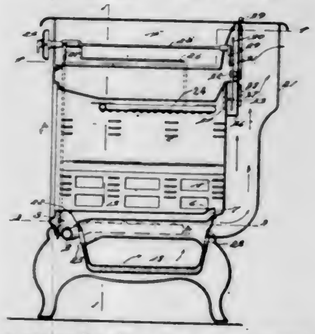


4. A winding device embodying therein a support, a shaft rotatably mounted in said support, a crank arm thereon, a spindle rotatably mounted in said crank arm at an oblique angle in relation to the surface of said support, a friction wheel carried by said spindle and having a portion thereof in engageable relation with the surface of said support, means operative to frictionally engage said friction wheel with said support, a plurality of arms pivoted adjacent their inner ends to said support, spools rotatably mounted in said arms adjacent the outer ends thereof for receiving a skein of yarn, means resisting movement of said arms when withdrawing yarn from said spools, and a guide for thread or yarn positioned intermediate the ends of said spindle and between said spools and said spindle.

2,164,146
CLEANING AND BLEACHING COMPOSITION
Werner Reuss, Dusseldorf-Benrath, and Friedrich Hoermann von und zu Guttenberg, Dusseldorf, Germany, assignors to Henkel & Cie G. m. b. H., Dusseldorf-Holthausen, Germany, a corporation of Germany
No Drawing. Application February 26, 1935, Serial No. 8,412. In Germany February 28, 1934
6 Claims. (Cl. 87—5)

6. A cleaning and bleaching composition comprising a water soluble salt of hypophosphoric acid, an oxygen delivering per compound bleaching agent and a silicate of the group consisting of magnesium, zinc and barium silicates.

2,164,147
RANGE
Frank H. Schneider, Royersford, Pa.
Application August 7, 1936, Serial No. 94,820
2 Claims. (Cl. 126—36)

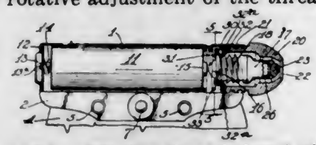


1. In a range having an oven, a source of heat for said oven, a second source of heat for said oven comprising an oven burner, a broiler burner in the oven, a vent for said oven, a casing having its ends open to the atmosphere and into which said vent opens, a main flue in vented communication with said casing, a damper controlling the vent from the casing to the main flue, a damper normally closing said oven vent, a fuel supply for said burners, a valve controlling said fuel supply and turnable to supply fuel to the oven burner or to the broiler burner, and means connecting the oven vent damper to said valve whereby the oven vent damper is moved to open position when said valve is turned to supply fuel to either of said burners.

2,164,148
COMBINED POCKET FLASHLIGHT AND KEY CASE
Nels H. Swanson, Chicago, Ill.
Application March 31, 1937, Serial No. 134,110
5 Claims. (Cl. 240—10.68)

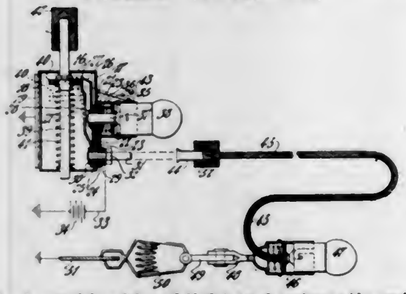
5. In an electric flashlight, a tubular casing, a battery in the casing, stop means at one end of the casing engaging one end of the battery, the other end of the casing being threaded and the battery having a central contact element adjacent that end of the casing, a lamp bulb provided with a center contact, a hood over the lamp

dimensioned internally to afford clearance laterally and between the outer end of the lamp and said hood, a collar fixed on the lamp base and having an outwardly extending portion forming a shoulder which engages the inner end of the hood so that rotative adjustment of the threaded por-



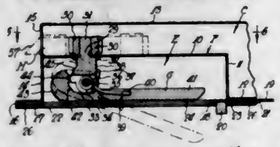
tion of said hood in the threaded end of the casing will shift the lamp toward the battery, and a spring reacting between the outwardly extending portion of said collar and the end of the battery for separating the lamp and battery upon reverse rotation of the hood.

2,164,149
AUTOMOBILE LIGHTING DEVICE
Oscar H. Underdorfel, Holyoke, Mass.
Application May 10, 1937, Serial No. 141,617
4 Claims. (Cl. 240—8.18)



1. A combined hood light and automatic switch comprising a metallic casing adapted to be secured to the grounded frame of an automobile just beneath the hood, an insulating plate secured to said casing, a pair of spaced terminals mounted on said insulating plate, each terminal extending from outside the casing to the inside of the casing, a socket mounted outside of said casing coaxially with one of said terminals with its center contact electrically connected with the terminal and its shell integral with the casing, switch means for connecting together said terminals positioned within said casing, operating means for said swich means extending outside of said casing and adapted to be positioned in the path of movement of the hood of the automobile, a screw threaded member for clamping a conductor to the other of said terminals and having integral therewith a pin for connection with the sleeve member of a detachable connector of an extension cord.

2,164,150
AUTOMOBILE CONSTRUCTION
Henry Brewster, New York, N. Y.
Application March 11, 1938, Serial No. 195,242
13 Claims. (Cl. 296—44)

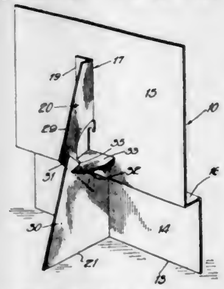


1. An automobile door construction comprising a latch, an actuator to move said latch, a handle for said actuator, a cup shaped recess in said door to receive said actuator sliding plate means to cover said cup shaped recess, guideways at the edges of said recess to receive and guide edges of said plate and means to enable said handle to be elevated from said recess for actuation of said latch, said handle being normally positioned entirely within said recess when said cover is closed.

2,164,151
DIESEL FUEL
George S. Crandall, Woodbury, and William H. James, Paulsboro, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 29, 1937, Serial No. 171,670
7 Claims. (Cl. 44—9)

1. An improved Diesel fuel comprising: hydrocarbon fuel oil and in admixture therewith a minor proportion of a bis (aminoaryl) disulfide.

2,164,152
EASEL
Vincent Fortunato, Brooklyn, N. Y., assignor to The Mounting & Finishing Co. Inc., Brooklyn, N. Y.
Application October 12, 1938, Serial No. 234,567
9 Claims. (Cl. 40—152.1)

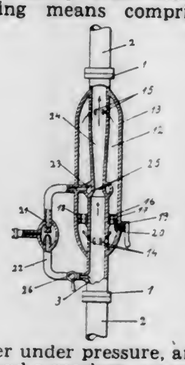


1. A cardboard display unit comprising a foldable offset display panel formed from a single piece of cardboard and normally flat and shiftable into offset set up position to provide an upper panel section, a lower panel section, and an intermediate panel section; an easel attached to the rear of the offset upper and lower panel sections and normally foldable flat thereagainst, said easel including a hinged prop swingable to a set up position at right angle to said display panel, foldable means integral with said prop and normally disposed in flat unfolded condition against said display panel and adapted to be folded to compensate for the relative shifting of the upper and lower panel sections to offset position, and a means formed from said easel for locking the foldable means in folded position when moved thereto by the shifting of said display panel to offset position.

2,164,153
APPARATUS FOR PRODUCING FIRE EXTINGUISHING FOAM
Wilhelm Friedrich, Berlin-Charlottenburg, Germany
Application September 15, 1937, Serial No. 163,905
In Germany September 18, 1936
4 Claims. (Cl. 261—76)

1. Apparatus for producing fire extinguishing

foam including means for projecting a jet of water into a receiver to entrain air under substantially atmospheric pressure, and means for supplying to said projecting means water under pressure containing foam stabilizing material, said supplying means comprising a conduit



carrying water under pressure, an ejector including a nozzle and a receiver, means for by-passing a portion of the water from said conduit through said ejector to aspirate foam stabilizing solution thereby, and means connecting the receiver side of said ejector to a low pressure portion of said conduit.

2,164,154
HYDROGENATION OF MONO NITRATED ALKOXY BENZENES

Clyde O. Henke, Wilmington, Del., and Roland G. Benner, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

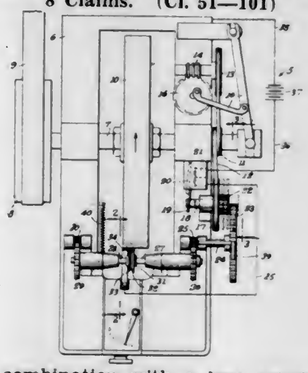
No Drawing. Application October 19, 1935, Serial No. 45,828
17 Claims. (Cl. 260—575)

2. A process for the production of mono amino lower alkoxy benzene which comprises catalytically hydrogenating mono nitrated lower alkoxy benzene in the liquid phase, said hydrogenation being carried out in the presence of a nickel catalyst at a temperature from 50 to 130° C. at a pressure in excess of 300 pounds per sq. in., said reaction being further characterized in that it is carried out in the absence of a solvent.

2,164,155
AUTOMATIC GRINDING DEVICE

Arthur Lemay, New York, N. Y.

Application December 22, 1938, Serial No. 247,153
8 Claims. (Cl. 51—101)



1. In combination with a lens grinding machine having a constantly rotating grinding wheel, a clamping device receptive of an unground blank and adapted to expose a portion thereof to the action of the grinding wheel, means operable upon the completion of the grinding of the exposed portion of the blank, to automatically move the same to expose another unground portion thereof, electro-magnetic means to control said last named means, and a pattern associated with said blank to complete an electrical circuit through said electro-magnetic means at predetermined intervals.

2,164,156
TREATMENT OF WATER

Otto Liebknecht, Neubabelsberg, near Berlin, Germany, assignor to The Permutit Company, New York, N. Y., a corporation of Delaware

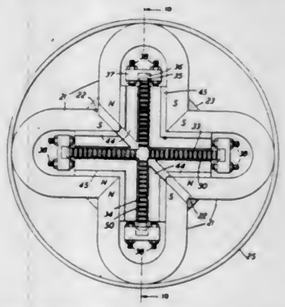
No Drawing. Application May 4, 1937, Serial No. 140,731. In Germany May 7, 1936
9 Claims. (Cl. 210—24)

1. A process for de-acidifying water, comprising passing the water containing free acid in contact with extensive surfaces of a keratin substance in insoluble condition and regenerating the keratin substance from time to time by washing with dilute alkaline solutions.

2,164,157
ACOUSTIC DEVICE

Edward P. Kennedy, Berwyn, Ill., assignor to Electrical Research Products, Inc., New York, N. Y., a corporation of Delaware

Application July 11, 1936, Serial No. 90,065
13 Claims. (Cl. 179—115.5)



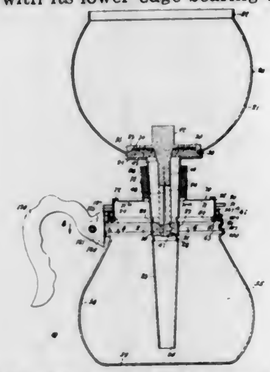
1. A microphone comprising a cross-shaped conductive ribbon diaphragm and magnet structure defining air-gaps therefor.

2,164,158
PERCOLATOR

Joseph Masin, New York, N. Y.

Application July 1, 1937, Serial No. 151,403
3 Claims. (Cl. 53—3)

1. In a percolator the combination of an upper receptacle for ground coffee and a lower receptacle for water, said lower receptacle having a fluted neck with a horizontal seat and a vertical circular flange at its upper end, a detachable cover for said lower receptacle functioning as a coupling means for the receptacles, the said cover comprising an annular top wall having a tapered tubular support integral therewith for connecting it with the upper receptacle, said cover having a cylindrical wall with a foot at its lower end and a U shaped cylindrical locking groove at its upper end, an angular shaped metallic ring positioned upon the seat of the fluted neck, a gasket positioned upon said ring, a fluted clamping band engaging the fluted neck of the lower receptacle, means to clamp the band against the fluted neck of the lower receptacle, a vertical cylindrical member at the upper end of the clamping band, horizontal locking cams extending from the inner surface of said vertical member of the clamping band and a rotatable cylindrical member bearing against the cylindrical wall of the cover with its lower edge bearing against the

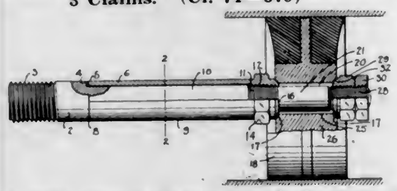


foot at the lower end of the cover, and having inclined locking cams extending therefrom coacting with the horizontal cams of the vertical cylindrical member of the clamping band.

2,164,159
PUMP ROD PROTECTING ASSEMBLY

Herbert W. Millmine, Houston, Tex.

Application March 5, 1937, Serial No. 129,128
3 Claims. (Cl. 74—579)

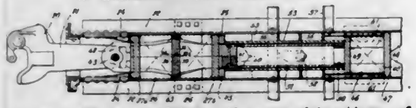


1. A wear resistant sleeve for slush pump rods comprising a body of heat treated metal, one end thereof being shaped to abut a shoulder on the rod, the other end having an external nut portion integral therewith, a threaded portion internally of the nut portion so that said sleeve may be rotated to screw it onto the rod and rotated reversely to jack it off of said rod in event it adheres to the rod, and a beveled end on said sleeve beyond said nut portion to receive the slush pump piston.

2,164,160
CUSHIONING MECHANISM

William H. Mussey, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Co., Chicago, Ill., a corporation of Delaware

Application June 9, 1937, Serial No. 147,205
5 Claims. (Cl. 213—72)

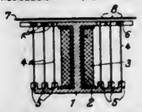


5. In a railway vehicle, the combination of a yoke made up of a pair of longitudinal complementary sections extending lengthwise of the yoke, each section having a pair of longitudinal members connected by an end member, a second end member attached to one longitudinal member, intermediate members, and means for connecting the sections with their longitudinal members, intermediate members, and first end members lying face to face in one plane and their second end members lying face to face in another plane, and a cushioning device comprising a pair of cushioning units lying within the yoke at opposite sides of the intermediate members thereof.

2,164,161
DEVICE FOR THE INDICATION OF RADIO TRANSMISSIONS

Kurt Nekolny, Budapest, Hungary, assignor of two-thirds to Mor Lajta, Budapest, Hungary

Application April 1, 1938, Serial No. 199,538
In Hungary February 19, 1938
6 Claims. (Cl. 250—6)

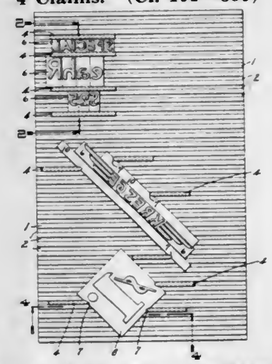


1. A device for discerning operating broadcast stations together with the types of their various programs by means of modulations of electric carrier waves alotted to said broadcast stations and to the various types of their programs, and accompanying the broadcasting of said programs, said device including oscillatory elements, means for tuning each of said elements to one of said modulations, means responsive to said modulations and for energizing said oscillatory elements and means for visually indicating the oscillation condition of said elements.

2,164,162
TYPE BED AND HOLDER

Edd C. Oliver, Adrian, Mich.

Application May 27, 1937, Serial No. 145,073
4 Claims. (Cl. 101—380)



1. A device of the character described, comprising a type bed having a series of spaced parallel grooves, a series of type holders arranged for insertion in the grooves, each holder having at least one end formed at an acute angle providing a holder of less length at the base than at the top whereby the upper edge overlies the bottom edge when positioned in a groove of the type bed, and a rubber like compressible type having a base engaging the bed, the holders being slidable in the grooves to wedgingly engage the type and prevent the type from being lifted from the bed in a printing operation.

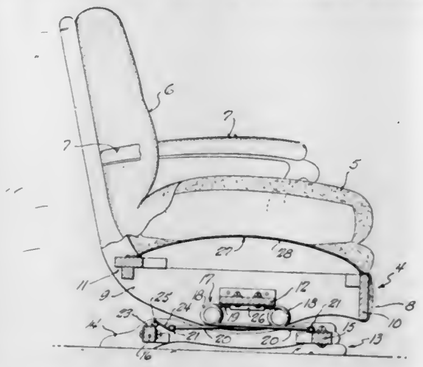
2,164,163
ROCKING CHAIR

Walter S. Piper, Sheboygan, Wis.

Application January 7, 1939, Serial No. 249,746
2 Claims. (Cl. 155—54)

1. In a rocking chair of the type having a stationary leg structure including front, rear and

side rails and a chair structure mounted thereon by means of a spring device which permits descent of the chair structure as well as rocking motion, the combination of: means in the bottom of the chair structure to which the spring device is secured; and rigid front and side walls on the frame of the chair structure extending substantially below the level of said means sufficiently



to conceal those portions of the spring device located above the leg structure, said means to which the spring device is secured extending between the chair frame side walls, the lower edges of said rigid side walls being convexly arched so as to enable rocking of the chair structure to extreme positions without having the rigid side walls contact the floor even when the chair structure is caused to descend to an extreme position.

2,164,164

CARBON BLACK AND METHOD OF TREATING SAME

Howard W. Price, Borger, Tex., assignor, by mesne assignments, to J. M. Huber Corporation, Borger, Tex., a corporation of Delaware

Continuation of application Serial No. 703,402, December 21, 1933. This application December 28, 1935, Serial No. 56,481

10 Claims. (Cl. 134—60)



1. The process of treating carbon black which consists of continuously advancing a mass of black along a predetermined path and while so doing first allowing successive portions of said mass to shift slowly by gravity over moving surfaces which gradually increase their angle with the horizontal, and simultaneously lightly pressing and compacting said portions under the rolling and pressing forces exerted by a single rolling member freely movable therethrough and rotatable therein as they shift downwardly over said surfaces, and thereafter continuing to shift increments of the mass by gravity as aforesaid without subjecting the same to any pressure other than that resulting from their own weight, until the entire mass forms into relatively tenacious, self-sustaining granules.

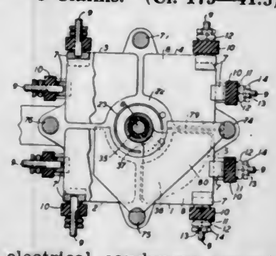
2,164,165

ELECTRICAL CONDENSER

Karl F. Rodgers, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 30, 1938, Serial No. 198,821

5 Claims. (Cl. 175—41.5)



1. An electrical condenser comprising groups of stator plates arranged in spaced relation around a common center and all of said groups being in the same plane, a rotor shaft disposed in the common center and spaced from said groups, a set of rotor plates insulatingly supported on said rotor shaft and movable selectively into association with a required group of said stator plates, and a cup-shaped electrical shield supported in said rotor shaft and movable therewith and extending in the space between said rotor shaft and the unselected groups of said stator plates and said shield having an opening formed in its side wall and said rotor plates extending through the opening.

2,164,166

MECHANICAL LEAD PENCIL

Max Schaefer, Bloomfield, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware

Application June 22, 1936, Serial No. 86,565

5 Claims. (Cl. 120—18)



1. A mechanical pencil comprising a case having a helical feed thread therein and rigid therewith, a rotatable longitudinally slotted lead tube in said case, a lead propeller tube in said lead tube having a lug protruding through said slot into the feed thread, a lead expel pin in said propeller tube having a lug also protruding through the slot of said lead tube into said feed thread, said lead tube being obliquely cut away at its forward end from one side of the longitudinal slot to the forward extremity at the other side of the longitudinal slot to afford room for nearly a complete rotation of the lug on the lead propeller after the latter has reached the extremity of its confined course along the lead tube slot, thereby to permit a substantial advance of the lug on the expel pin.

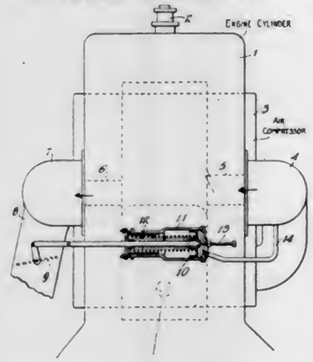
2,164,167

TWO-CYCLE ENGINE

Rudolph H. Schneider, St. Louis, Mo., assignor, by mesne assignments, to Reconstruction Finance Corporation, St. Louis, Mo., a corporation of the United States

Application May 1, 1937, Serial No. 140,123

1 Claim. (Cl. 123—65)



In a two-cycle compression-ignition engine, the combination of its fuel injection means, scavenging pump, air receiver and exhaust conduit, with a damper in said conduit, means operable by and increasing the air pressure in said receiver for operating said damper and means for limiting the closing movement of said damper to a degree of exhaust restriction suited to maintain compression ignition of the injected fuel.

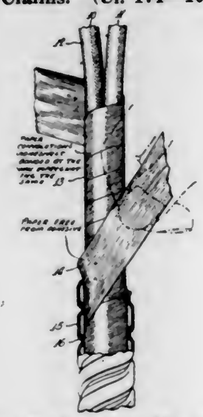
2,164,168

ARMORED ELECTRICAL CABLE

Joseph Wertzheiser, Newark, N. J., and Harry Charmoy, Long Island City, N. Y., assignors to Hillside Cable Co., Hillside, N. J., a corporation of New Jersey

Original application May 15, 1935, Serial No. 21,524. Divided and this application October 4, 1935, Serial No. 43,530

2 Claims. (Cl. 174—109)



1. An armored electric cable comprising one or more insulated conductors, paraffin paper strip helically wound thereabout, said strip being wax impregnated and of width several times the pitch of the winding to present overlapping areas, the wax of said overlapping areas serving as the means for welding the same together in a unitary flexible structure, and a second helical strip of paper, free from wax, wound about said first strip, and a metal strip helically wound about the protective covering to form the armor sheath.

2,164,169

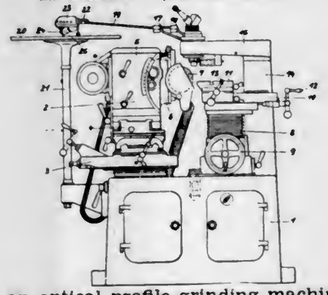
OPTICAL PROFILE GRINDING MACHINE

Reinhard Max Wohlfarth, Dresden, Germany, assignor to Aktiengesellschaft vorm. Seidel & Naumann, Dresden, Germany

Application July 21, 1938, Serial No. 220,438

In Germany September 24, 1937

12 Claims. (Cl. 51—165)



1. In an optical profile grinding machine consisting of the Universal type, of an adjustable optical system for observing the grinding, of a drawing board which holds an enlarged pattern and of a pantograph in shape of a parallelogram for transferring the said pattern into the line of motion of the optical system by means of a tracing point, a photo-electric cell on the pantograph for tracing piece by piece the lines of the said enlarged pattern, and means for indicating the correct position of the tracing point of the pantograph.

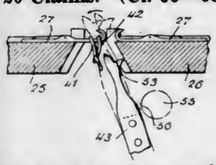
2,164,170

KNITTING MACHINE AND METHOD

Michael Zimic, Forest Hills West, Long Island, and Anton Miskovsky, Astoria, Long Island, N. Y.; said Miskovsky assignor to said Zimic

Application May 21, 1937, Serial No. 143,964

20 Claims. (Cl. 66—63)



1. The method of knitting with a full automatic links and links machine which comprises utilizing a reciprocating carriage to shift certain needles from one needle bed to an opposing bed and to form loops on needles in both beds, removing the loops from the shifted needles, and transferring the removed loops to other needles.

2,164,171

HYDRAULIC PUMP OR MOTOR

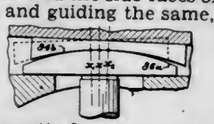
Elek K. Benedek, Bucyrus, Ohio

Application October 16, 1935, Serial No. 45,325

15 Claims. (Cl. 103—161)

9. In a hydraulic machine of the character de-

scribed, a rotatable barrel having a radial cylinder, a radial piston carried thereby, valve means for the cylinder, each piston having a rigid T-head member, a rotary reactance member eccentric to and surrounding the piston and having a chordal slideway in fixed relation to the reactance member and in engagement with the one working face and the side faces of the T-head for supporting and guiding the same, a reactance



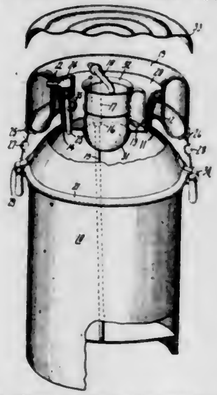
interponent operatively interposed between the T-head member and the rotary reactance member and movable relative to the reactance member, said interponent and one of said members having mutually engaging arcuate reactance surfaces of slightly different radius of curvature, said axes of said surfaces being parallel to the axis of rotation of the reactance member and said interponent and the other of said members having cooperating reactance surfaces.

2,164,172

LIQUID-DISPENSING APPARATUS

William Dalton, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 30, 1938, Serial No. 205,296
6 Claims. (Cl. 221—67)



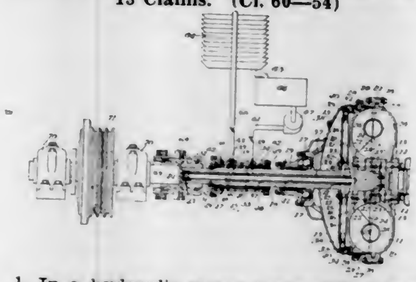
1. A liquid dispensing apparatus comprising a container having an opening therein, a flange arranged about said opening, means including a removable dish-shaped cover arranged to fit within said flange for sealing said opening, means for supporting a measuring vessel within said cover, means including an annular tank secured to said cover and arranged about the exterior side of said flange for containing a fluid under pressure, a conduit extending through said cover and opening into said container adjacent the bottom thereof and having a discharge spout within said cover, means providing communication between the interior of said tank and the interior of said container for conveying fluid under pressure from said tank to effect a flow of liquid from said container through said conduit, means including a valve in said conveying means for controlling the discharge of fluid under pressure from said tank to said container to control the flow of liquid from said container, and a removable lid for enclosing said discharge spout and said valve and a measuring vessel within said cover.

2,164,173

HYDRAULIC POWER TRANSMISSION APPARATUS

Ernest L. Durrell, Jersey City, N. J., and Merton T. Archer, Toledo, Ohio, assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 22, 1938, Serial No. 215,192
13 Claims. (Cl. 60—54)



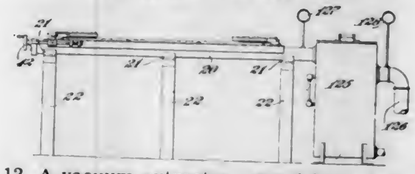
1. In a hydraulic power transmitting apparatus, a driving shaft and a driven shaft, an impeller fixed on the driving shaft, a runner fixed on the driven shaft, said impeller and runner conjointly defining a vortex containing a power transmission liquid, a juxtaposed sealed independent annular cooling chamber having inlet and outlet connections in communication with axially disposed conduits in one of said shafts through which a cooling fluid under pressure is circulated.

2,164,174

HYDROEXTRACTOR

Frank W. Gerard, De Witt, N. Y., and Richard C. Collins, Newton Highlands, Mass., assignors to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts

Application September 14, 1935, Serial No. 40,656
13 Claims. (Cl. 34—48)



12. A vacuum extractor comprising a vacuum tube having a longitudinal slot therein, means for varying the effective width of the slot comprising means mounted in fixed position on the tube on each side of the slot and forming a continuation thereof, said means having on one side a surface bearing on the outer surface of the tube and having on its opposite side a substantially horizontal bearing surface, a cloth engaging bar supported on said bearing surface at each side of the slot, and mechanism for moving one of said bars toward and away from the other of said bars to vary the effective width of said slot.

13. A hydroextractor by which moisture is removed from wetted woolen, worsted or other textile fabrics, comprising a chamber having a longitudinally extending slot therein over which slot the fabric being treated is passed and through which moisture is drawn from the fabric by suction set up in the chamber, a support at one end of the slot extending parallel to and above the same, and a plurality of disks pivotally associated with said support and positioned to normally bear upon the slot edges, each of said disks

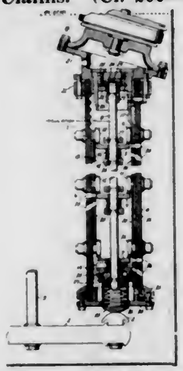
being independently movable substantially horizontally with respect to said support and out of opposed alignment with the slot upon contact of the fabric with a disk so that the suction through the fabric will be uniform along the effective length of the slot.

2,164,175

HIGH VOLTAGE ELECTRIC CIRCUIT INTERRUPTER

Edward J. Frank, Yeadon, Pa., assignor to General Electric Company, a corporation of New York

Application March 11, 1937, Serial No. 130,258
8 Claims. (Cl. 200—150)



6. An electric circuit breaker of the liquid blast type comprising an insulating casing forming a pressure-confining chamber containing an arc extinguishing liquid, relatively movable contacts separable within said chamber, said chamber having an exhaust port adjacent and opposite a break formed by separation of said contacts so that arc pressure created within said chamber upon opening of the circuit is effective to drive liquid through the arc at said port, a contact-actuating member connected to said contact structure, arc pressure in said chamber tending to move said actuating member toward open circuit position, a piston for augmenting the arc pressure in said chamber, and spring means for biasing said piston in a direction to create pressure in said chamber, said piston and actuating member being in free abutting relation so that said spring means normally biases said actuating member toward open circuit position and so that arc pressure within said chamber is effective to accelerate opening of said contact structure notwithstanding reverse movement of said piston.

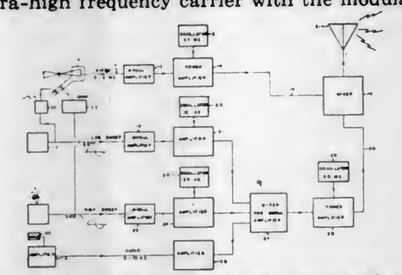
2,164,176

METHOD AND SYSTEM FOR TELEVISION COMMUNICATION

Thomas T. Goldsmith, Jr., Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Upper Montclair, N. J., a corporation of Delaware

Application March 12, 1938, Serial No. 195,441
2 Claims. (Cl. 178—5.8)

1. In the art of television communication wherein it is required that electrical sweep waves of low frequency and high frequency respectively be supplied to the receiver for governing scanning action thereat, the steps in the method of operation which consist in modulating a first main ultra-high frequency carrier with the video signal, modulating a sub-carrier with the high-frequency sweep wave, modulating a second main ultra-high frequency carrier with the modulated



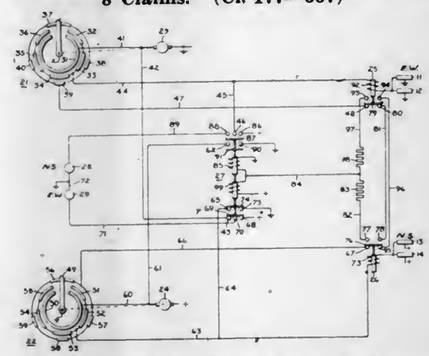
sub-carrier, and feeding said modulated main carriers to radio transmission means.

2,164,177

TRAFFIC-SIGNAL CONTROLLER

Benjamin W. Jones, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 24, 1936, Serial No. 86,909
8 Claims. (Cl. 177—337)



1. In a traffic-signaling system, the combination of signals operable to indicate the right of way to several intersecting streets successively and for simultaneously indicating stop to the others, a signal switch operable to several positions to energize the necessary signal combinations in each of its several positions respectively, vehicle-actuated devices in each of said streets, and timing switches operable respectively responsive to actuations of said vehicle-actuated devices in the intersecting streets to control the positioning of said signal switch and for maintaining said signal switch in a selected position for a minimum time period responsive to a single actuation of a vehicle-actuated device.

2,164,178

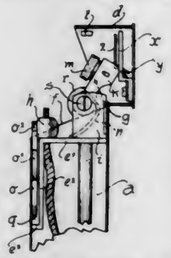
POCKET LIGHTER

Heinrich Maltner, Offenbach-on-the-Main, Germany, assignor, by mesne assignments, to Heinrich Maltner Kom. Ges., Offenbach-on-the-Main, Germany

Application March 3, 1936, Serial No. 66,929. Renewed May 22, 1939. In Germany May 3, 1935
2 Claims. (Cl. 67—7.1)

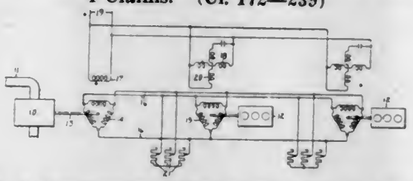
1. A pyrophoric pocket lighter comprising a rod-shaped casing having a fuel reservoir, a cover hinged at the back of said casing and provided with a pair of oppositely disposed hook-receiving elements, spark-producing means on the top of

the casing, a wick holder on the lid of the casing, and a pair of oppositely disposed locking elements for holding the cover closed, the locking elements each having a hook, the hooks being adapted to be received in the respective hook-receiving elements, means for yieldingly maintaining the hooks in the hook-receiving elements, and the locking elements having also oppositely disposed portions that are actuable simultaneously toward each other from outside the casing in opposition to the force exerted by the yielding-maintaining means to effect actuation of the



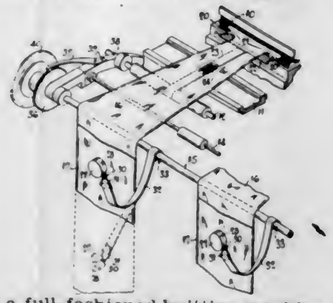
hooks out of the hook-receiving means to permit the cover to become opened, a movable arm, an extinguishing cap loosely carried by the arm, an apertured guide plate disposed in the cover, the arm having projections protruding through the aperture of the guide plate and engaging behind the same so that the coupling produced thereby securely holds the cover in the upright position when opened, and a spring on the inner side of the top plate of the cover and extending between the projections of the arm carrying the extinguishing cap, said spring bearing on the top of said cap.

2,164,179
TELEMETERING TORQUE AMPLIFIER
Abram J. Moore, Melrose, Mass., assignor to General Electric Company, a corporation of New York
Application December 20, 1938, Serial No. 246,885
4 Claims. (Cl. 172—239)



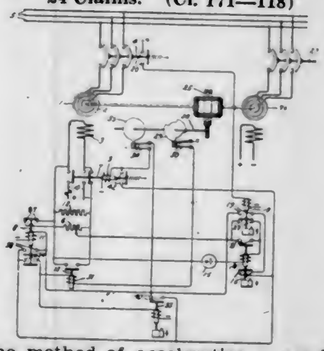
2. A synchronous telemetering system having transmitter and receiver devices, said devices having relatively rotatable primary and secondary windings, the secondary windings being like three-phase windings, a three-wire telemetering circuit connecting the secondary windings in parallel in three-phase relation, means for supplying single phase energy to the primary windings whereby when there is relative rotation between the primary and secondary windings of the transmitter a synchronous telemetering torque is developed in the receiver tending to produce similar relative rotation between its primary and secondary windings, one of said devices being designed and connected to produce an additional induction motor torque in the same direction as the telemetering torque therein, said induction motor torque furnishing a substantial part of the rotational torque energy for the system while permitting synchronous telemetering control action between transmitter and receiver.

2,164,180
STOCKING TENSION DEVICE
Herbert Bryan Shiflet, Morganton, N. C.
Application March 17, 1939, Serial No. 262,457
4 Claims. (Cl. 66—149)



2. In a full-fashioned knitting machine, means for appying tension to the welt of the stocking while the foot portion is being knitted, and means for automatically relieving the tension on the welt when a predetermined portion of the foot portion of the stocking has been knitted.

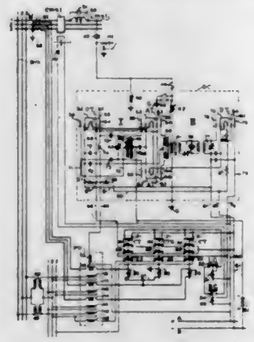
2,164,181
METHOD OF AND APPARATUS FOR ACCELERATING AND SYNCHRONIZING A SYNCHRONOUS MACHINE
David R. Shoults, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 27, 1937, Serial No. 128,218
Renewed January 11, 1939
24 Claims. (Cl. 171—118)



1. The method of accelerating a synchronous machine which consists in supplying alternating current to the armature winding and changing the time constant of a field circuit at predetermined points in each slip cycle.

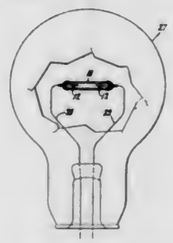
2,164,182
PROTECTIVE SYSTEM FOR ELECTRIC POWER TRANSMISSION LINES
Philip Sporn, Brooklyn, and Charles Albert Muller, Tuckahoe, N. Y., assignors to General Electric Company, a corporation of New York
Application July 13, 1937, Serial No. 153,421
12 Claims. (Cl. 175—294)

1. In a control system for a circuit interrupter interconnecting two electric power circuits which includes a control circuit and means responsive to the energization of the control circuit for opening said interrupter, a relay having contacts in said control circuit which are open when the relay is energized, two energizing circuits for said relay, fault responsive means for normally completing one of said energizing circuits connected to respond to a fault on either of said power circuits, means responsive to a fault on a predetermined one of said power circuits for effecting the



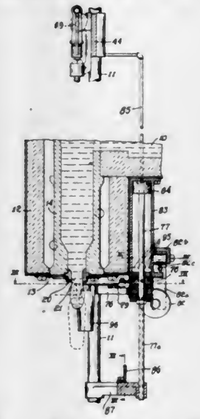
energization of the other of said energizing circuits, and means responsive to a fault on said predetermined power circuit for producing after a predetermined time interval another opening in said control circuit and for maintaining said control circuit open until a predetermined time after the termination of the fault on said predetermined power circuit.

2,164,183
ELECTRIC LAMP
Johannes A. M. van Liempt and Willem Elenbaas, Eindhoven, Netherlands, assignors to General Electric Company, a corporation of New York
Application February 5, 1938, Serial No. 189,007
In the Netherlands February 25, 1937
4 Claims. (Cl. 176—122)



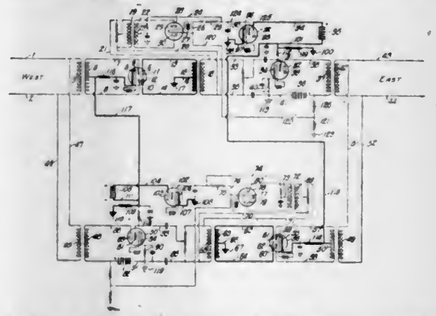
1. An electric lamp comprising an incandescible opaque tubular envelope of highly refractory material, a thermionic electrode located at each end of said envelope, lead-in conductors connected to said electrodes and extending outwardly from the ends of said envelope, a vitreous insulating material sealing each end of said envelope and the lead-in conductor extending therethrough, an ionizable medium in said envelope, a sealed outer light-transmitting container surrounding said envelope and containing a gaseous atmosphere which is inert with respect to the material of said envelope, and means for applying a potential difference between said electrodes whereby a discharge therebetween causes said opaque envelope to be heated to a high degree of incandescence.

2,164,184
APPARATUS AND PROCEDURE FOR SEVERING AND DELIVERING MOLTEN GLASS
Frank L. O. Wadsworth, deceased, late of Pittsburgh, Pa., by Mildred M. Wadsworth, administratrix, Pittsburgh, Pa., assignor to Ball Brothers Company, Muncie, Ind., a corporation of Indiana
Original application May 22, 1934, Serial No. 726,874. Divided and this application May 29, 1937, Serial No. 145,448
14 Claims. (Cl. 49—14)



1. The method of severing a charge from a stream of plastic material which consists in moving a pair of shear blades in the direction of travel of the stream while closing said blades to effect the severance, and continuing the movement of said blades after the severance to accelerate the delivery of the charge and to simultaneously shape the upper end of said charge.

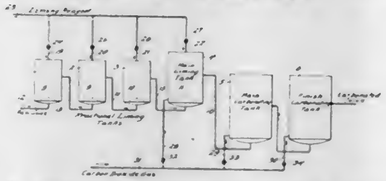
2,164,185
VOICE OPERATED REPEATER
Edward C. Bertnolli and Kenneth D. Cornell, Kansas City, Mo., assignors to Great Lakes Pipe Line Company, Kansas City, Mo., a corporation of Delaware
Application May 22, 1937, Serial No. 144,170
5 Claims. (Cl. 179—170)



2. In a repeating system having two one-way transmission channels each comprising an input thermionic tube and an output thermionic tube, a pair of control tubes each adaped to render the input tube of one channel operative and the output tube of the other channel inoperative, and means operated by energy from one of said trans-

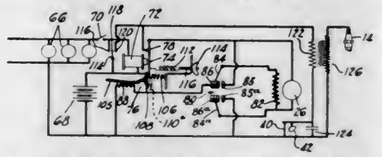
mission channels for nullifying the action of the control tube affecting the output tube of said energy receiving channel.

2,164,186
MANUFACTURE OF SUGAR
Robert J. Brown and Alpheus R. Nees, Denver, and Claude T. Carney, Greeley, Colo., assignors to The Great Western Sugar Company, Denver, Colo., a corporation of New Jersey
Application May 3, 1937, Serial No. 140,528
14 Claims. (Cl. 127—50)



1. A method for continuously and simultaneously defecating and carbonating sugar juice, comprising heating the juice to a temperature of 80° C. to 90° C., passing said juice in a continuous stream through a predetermined path, then simultaneously adding regulated streams of liming reagent and carbon dioxide to the juice stream at spaced points in said path, and in such amounts and in such ratio that the alkalinity at which the maximum coagulation of colloids takes place is reached and then substantially exceeded within a period of five to ten minutes, then introducing additional streams of liming reagent and carbon dioxide into the juice at a further point in said path and in such amounts and such ratio that the saturation point of the juice with respect to the liming reagent is rapidly approached and exceeded, then continuing the carbonation to an akalinity of 0.07 to 0.10 gram CaO per 100 milliliters of juice, and passing the juice so carbonated onward for further treatment.

2,164,187
POWER LIGHTING SYSTEM
Kendall Clark, South Bend, Ind.
Application October 12, 1936, Serial No. 105,191
5 Claims. (Cl. 290—31)

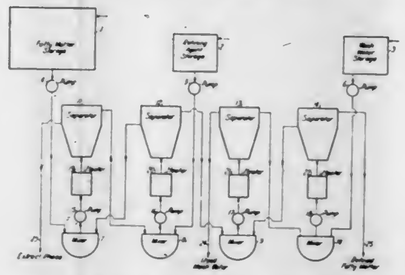


1. A portable electric generating plant comprising a generator having an armature and electrical connections to permit it to function as a motor or as a generator, an internal combustion engine having a crankshaft, means including a centrifugally operated clutch interposed between the armature and the crankshaft to start the engine, said means employing the kinetic energy of the armature, means to start the generator armature in motion as an electric motor, automatic means to repeat the starting cycle and a clutch operated switch to actuate said connections to permit the generator to function as an electric generator when the engine is operating above a predetermined speed and as an electric motor when the engine is operating below said predetermined speed.

2,164,188
ESTERIFICATION OF ALLYL TYPE ALCOHOLS AND PRODUCTS RESULTING THEREFROM
Herbert P. A. Groll, Oakland, and George Hearne, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 16, 1934, Serial No. 725,967
22 Claims. (Cl. 260—488)

1. A process for the esterification of unsaturated alcohols which comprises reacting a monoolefinic alcohol containing at least four carbon atoms in an alkyl chain and a carbinol group linked to an aliphatic unsaturated tertiary carbon atom with a carboxylic acid.

2,164,189
FATTY MATTER REFINING PROCESS
Walter J. Hund and Donald H. Rowe, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 17, 1937, Serial No. 154,321
16 Claims. (Cl. 260—425)

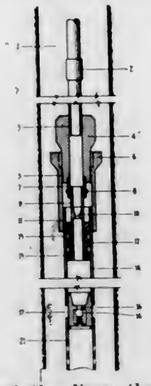


1. A process for the refining of fatty matters in a continuous, multi-stage countercurrent manner, which comprises contacting a fatty matter in the first stage with a substantially immiscible basic acting extractant in the liquid state which is reactive with said fatty matter, said extractant having been previously contacted with and separated from the partially refined fatty matter in the second stage, separating the bulk of the extractant from the fatty matter, contacting the once extracted oleaginous phase in the second stage with a purer portion of extractant, separating the bulk of the extract phase from the fatty matter, and contacting the extract phase from the second stage with the crude fatty matter in the first stage.

2,164,190
APPARATUS FOR CEMENTING WELLS
Johan Willem Klomp, Boldesti, Rumania, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application February 23, 1937, Serial No. 127,058
In Rumania March 3, 1936
4 Claims. (Cl. 166—1)

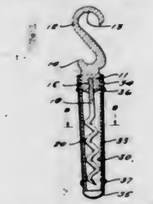
1. In an apparatus for cementing wells, a pipe string, a liner attached to the end thereof, a piston yieldably held within the upper portion of the liner, a fluid passage through the piston means for placing a cement charge below the piston through said passage, means for closing said passage, and means for applying to the upper face of said piston a sufficient fluid pressure

to move the piston downward when the passage therethrough is closed, said piston being effective



in forcing out of the liner the cement charge placed below its lower face.

2,164,191
REMOVER FOR BOTTLE CLOSURES
Knud Knudsen, Danbury, Conn., assignor to Danbury-Knudsen, Incorporated, a corporation of Connecticut
Application July 15, 1936, Serial No. 90,651
8 Claims. (Cl. 65—46)



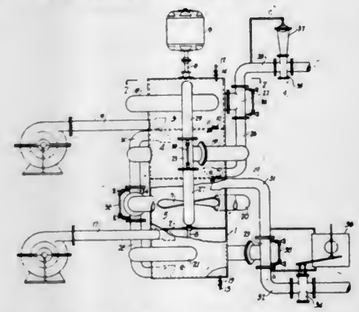
1. In a construction of the character described, in combination, an S-shaped part having depending therefrom a tapered shank, said shank terminating in a corkscrew, and a tube-like screw-encasing handle comprising a piece of sheet metal rolled into tube-like form and held in the latter form by at least one ring-like member encompassing an end thereof, said end receiving said tapered shank, so that said tube-like handle encases said corkscrew and forms a lever-like handle for said S-shaped part, one of the hook-shaped ends of said S-shaped part being dimensioned to engage a bottle cap, said ring-like member preventing the lever-like action of said handle through said tapered shank from unrolling the sheet metal of said handle, and the other hook-shaped part having an inside radius of curvature appropriate to receive therethrough said handle when detached from said tapered shank.

8. In a construction of the character described, in combination, an implement having a shank, and a handle therefor comprising a sheet metal member rolled into tubular form with its longitudinal edges contacting and of an inside diameter at at least one end thereof sufficient to receive therein said shank, a covering material over said tubular sheet metal member, the latter acting as a base to support said material, and a ring-like member encompassing that end of said sheet metal member into which said shank is receivable to prevent the lever-like action of said handle when said shank is received in said end thereof from unrolling the sheet metal of said handle and from splitting said covering material.

2,164,192
METHOD OF MAKING PAPER FROM WHEAT, OAT, OR RYE STRAW
Arnold J. Marcham and Norris Reynolds, Carlyle, Ill., assignors of ten per cent to Ben O. Zillman, St. Louis, Mo.
No Drawing. Application June 23, 1933, Serial No. 677,270
2 Claims. (Cl. 92—13)

2. A cyclic method of making paper, which comprises pre-softening a batch of straw with water or steam; cooking the resultant mass with alkali without removal of said liquid and without washing; passing the unwashed cooked mass through a paper-forming means and removing excess liquid therefrom; and re-using said last-mentioned liquid to pre-soften a successive batch of straw.

2,164,193
COUNTERCURRENT CONTACT APPARATUS
Donald S. McKittrick, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 19, 1937, Serial No. 169,889
9 Claims. (Cl. 261—108)



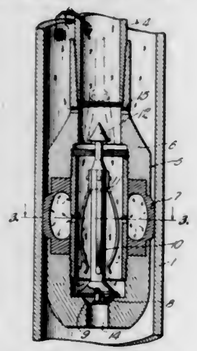
1. An apparatus for countercurrent contact treatment of a liquid with fluid of a lower specific gravity than said liquid and at least partially immiscible therewith, comprising a series of mixing chambers located at progressively different levels, mixing means within said mixing chambers, an elongated settling tube for each of said mixing chambers in free communication at its inlet end with its mixing chamber, a generally downwardly extending conduit for each settling tube except the lowermost in free communication with its settling tube at a point remote from its said inlet end and with a lower mixing chamber, a generally upwardly extending conduit for each settling tube except the uppermost in free communication with the settling tube at a point remote from its said inlet end and with a higher mixing chamber, means for supplying said liquid to a relatively higher mixing chamber, means for supplying said fluid to a relatively lower mixing chamber, means for withdrawing contacted fluid from a settling tube connected to a relatively higher mixing chamber, whereby said fluid flows through a plurality of mixing chambers and settling tubes in a generally upwardly direction countercurrently to said liquid, said flow being caused solely by the pressure differential between the inlets of the settling tubes and the outlets of said conduits, impressed

by the mixing in the mixing chambers and the difference in specific gravity between the fluid and the liquid.

2,164,194
PURIFICATION AND SEPARATION OF GASEOUS MIXTURES
Russell W. Millar, Berkeley, and Russel L. Maycock, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 14, 1937, Serial No. 159,026
7 Claims. (Cl. 23—2)

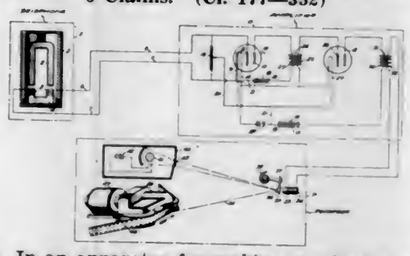
1. In the process of purifying a fluid from H_2S and analogous acidic impurities which comprises scrubbing the flowing fluid with an aqueous solution of an alkaline absorbent for the acidic impurities capable of activation by contact with a stripping medium, to produce a fat solution containing impurities, regenerating the latter by contact with a stripping medium to drive off absorbed impurities and recirculating the regenerated solution for further scrubbing the fluid, the improvement comprising heating said fat absorbent solution to vaporize a portion of the water of solution, thereby increasing the concentration of the absorbent in the solution, thereafter contacting the resultant solution of increased absorbent concentration with stripping steam in a stripping zone under conditions substantially to maintain said increased concentration whereby a concentrated stripped solution is obtained, withdrawing the stripped solution from said zone and adding to the withdrawn solution an amount of water substantially equal to that vaporized.

2,164,195
CASING TESTER
Fred Flynn Waltermire, Houston, Tex., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application July 22, 1938, Serial No. 220,706
4 Claims. (Cl. 137—77)



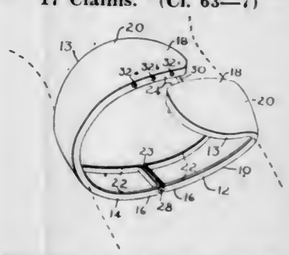
1. A casing tester comprising in combination a body member, means for securing the body member to a pipe adapted to be inserted within a casing to be tested, fluid pressure expandible packing means carried by said body member, said body member being formed with a bore, a valve seat formed in said bore, a valve adapted to be seated upon said seat, means providing communication between said bore and said packing means, means above said last named communicating means and providing communication between said bore and the well casing, said valve being formed with means permitting its removal from said seat from the surface of the well.

2,164,196
MEANS AND METHOD OF MAKING GEOPHYSICAL EXPLORATIONS
Kenneth C. Woodyard, Welsh, La., Clifford A. Putnam, Kountze, Tex., and Harold R. Prescott, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application March 31, 1934, Serial No. 718,386
6 Claims. (Cl. 177—352)



1. In an apparatus for making geophysical explorations, a seismophone, a thermionic tube having a grid and a cathode, a conductor connecting said grid and said seismophone, a conductor connecting said cathode and said seismophone, and means for equalizing the impedance of said conductors.

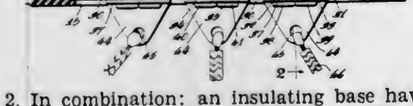
2,164,197
BRACELET
Eli J. Beaupre, North Attleboro, Mass., assignor to Associated Attleboro Manufacturers, Inc., Attleboro, Mass., a corporation of Massachusetts
Application June 30, 1938, Serial No. 216,744
17 Claims. (Cl. 63—7)



16. A bracelet comprising circular resilient means having laterally overlapping ends, one of said ends having pin means projecting laterally therefrom adjacent to the free outer end thereof and the other of said ends having a lateral hole opposite said pin means adjacent to the free outer end thereof, said bracelet being so resiliently constructed as to resiliently bend to permit sufficient lateral movement for lateral insertion of said pin means in said hole and to resiliently laterally retract to retain said pin means within said hole to secure said bracelet in a locked position on a wearer's wrist.

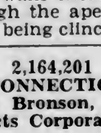
2,164,198
METHOD OF MAKING POWDERED IRON
Frank O. Clements, Robert H. Terry, and Donald J. Henry, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 5, 1938, Serial No. 206,234
5 Claims. (Cl. 148—4)

1. The method of making powdered iron which consists in carburizing iron, rapidly cooling it to make it brittle, breaking it up into particles of



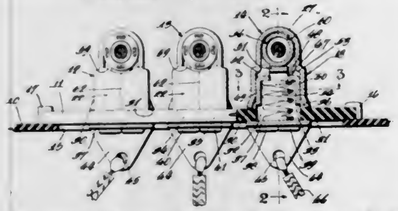
the desired size, and annealing the particles to make them relatively soft and briquettable.

2,164,199
PHONOGRAPH STYLE
John M. Dean, Jr., Putnam, Conn.
Application June 9, 1937, Serial No. 147,328
2 Claims. (Cl. 274—38)



1. A phonograph style or needle for cooperation with records having hill-and-dale sound track grooves, said needle constructed with a body portion of cylindrical form and a portion extending downwardly therefrom and gradually tapered to a point, a considerable proportion of the length of said tapered extension being cut away on its sides to form a relatively thin blade, said blade being of somewhat less thickness than the width of the groove in the record with which it is used to adapt it to fit between the sides of the groove with a slight clearance and of a length greater than the depth of the groove to adapt its pointed end to bottom therein, one side of the blade portion being concave and the other side being convex on a radius conforming substantially to the mean radius of the groove in the record.

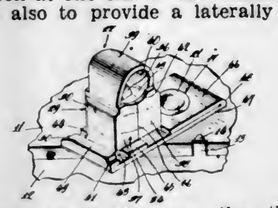
2,164,200
ELECTRICAL CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application May 31, 1935, Serial No. 24,253
7 Claims. (Cl. 173—328)



2. In combination: an insulating base having an aperture; a plate having apertures, disposed on one side of said base, providing means for electrical connection; and a sheet metal tubular electrical conductor receiving means, of polygonal cross-section, certain of the walls thereof being formed to abut the opposite surface of said base, and certain other walls thereof being extended, and passing through the apertures in said base and said plate, and being clinched over said plate.

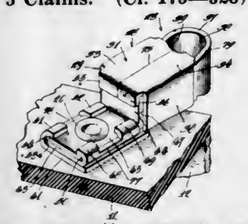
2,164,201
ELECTRICAL CONNECTION APPARATUS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application May 31, 1935, Serial No. 24,255
9 Claims. (Cl. 173—328)

5. Conductor terminal receiving means, comprising: a body, formed of a single piece of sheet-metal bent to provide a tubular portion and a loop portion at one end of said tubular portion, and bent also to provide a laterally extending



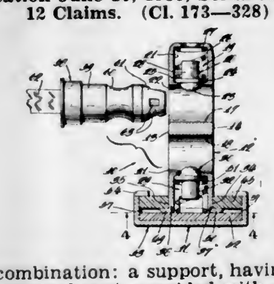
part folded upon itself to span the other end of said tubular portion, the extremity of said laterally extending part being connected to said body.

2,164,202
ELECTRICAL CONNECTION APPARATUS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application May 31, 1935, Serial No. 24,256
5 Claims. (Cl. 173—328)



4. Electrical connection means, comprising: an axially-split tubular sheet-metal body, the walls at one end of said body being extended and joined to form a loop for receiving a conductor terminal, and the walls on opposite sides of the split at the other end of said body being extended, the extended portions overlying each other; a support; and fastening means, engaging said overlying portions and said support, securing said body to said support, and holding said overlying portions against relative movement.

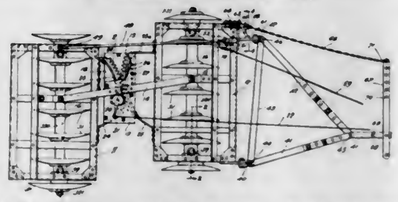
2,164,203
ELECTRICAL CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application June 10, 1935, Serial No. 25,715
12 Claims. (Cl. 173—328)



3. In combination: a support, having an aperture; a terminal post, provided with an aperture for receiving a conductor terminal, and a longitudinal bore entering said post at one end, said post also having abutment means spaced inwardly from said end, the part of said post margining said bore being disposed through said support aperture to an extent limited by engagement of

said abutment means with one surface of said support, said end of said post being formed to overlie the other surface of said support to hold said post to said support; an abutting member connected to said support; and biasing means interposed between a surface of said abutting member and said post aperture, operable to yieldably engage and hold a conductor terminal disposed in said aperture.

2,164,204
INTERGEARED OFFSET DISK HARROW
Jacob V. Dyrr, Bell, Calif., assignor to International Harvester Company, Chicago, Ill., a corporation of New Jersey
Application November 20, 1934, Serial No. 753,877
7 Claims. (Cl. 55—83)



1. A tractor operated ground working implement comprising forward and rearward gangs of ground working tools, means interconnecting the gangs for relative angling movement in a horizontal plane, draft means flexibly connected to the tractor and to both gangs, being connected to the forward gang at one side of the gang interconnection and to the rearward gang at the other side of the interconnection, and an angling control member connected to the tractor at a point offset laterally from the point of draft connection thereto and directly to the forward gang at a point offset laterally to the last mentioned side of the gang interconnection.

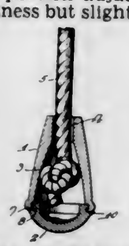
2,164,205
CABLE TROLLEY
James A. Gibbons, North Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Application January 14, 1938, Serial No. 185,004
12 Claims. (Cl. 104—112)



1. A cable trolley comprising an outer member having a cylindrical bore and a longitudinal slot of a width to pass the cable laterally through said slot into and out of said bore, and a hollow cylindrical member fitting in said bore and having a similar slot, said members being relatively rotatable to align or disalign said slots, said slots being co-extensive in length with their said respective members.

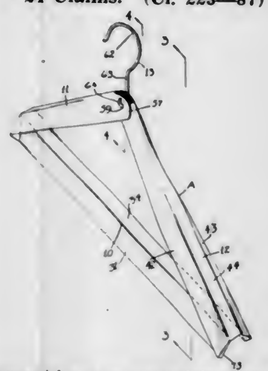
2,164,206
PULL KNOB
Joseph A. Gits and Jules P. Gits, Chicago, Ill.
Application April 14, 1937, Serial No. 136,713
2 Claims. (Cl. 16—122)

1. In a device of the class described, in combination, a pull knob of molded material which is adapted to be used at the end of a cord by having the cord tied thereto, said pull knob comprising a substantially elongated body provided with a cavity that is open at its lower end and a hole at its upper end through which the cord extends and is knotted so as to position the knot in said cavity, and a cap for fitting said body portion by a snap action engagement at said lower open end, said hole being of small cross section relative to said cavity, said cavity increasing in cross section as it approaches its said lower open end, the wall of said body increasing in diameter but decreasing in thickness as it reaches said lower open end so as to be of substantial thickness and non-yielding in character along its upper portion adjacent said cord hole and of less thickness but slightly yielding in char-



acter where receiving said cap, said wall having a tapering curved outer surface that terminates in an annular bead of larger diameter than said cap whereby to prevent accidental removal of said cap by preventing the same from being effectively gripped when said body portion is gripped about its outer curved surface to exert a pull upon the cord.

2,164,207
GARMENT HANGER
Reynolds Guyer and Richard B. Lewis, Jr., St. Paul, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application November 27, 1936, Serial No. 112,963
24 Claims. (Cl. 223—87)

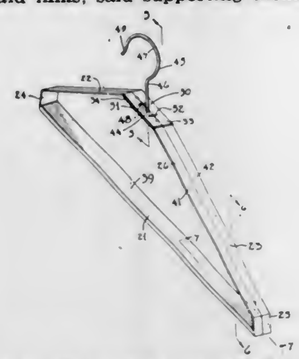


7. A garment hanger comprising a frame having a cross member and converging members connected together and to said cross member, supporting means attached to said converging members, said cross member being constructed from a sheet of paper bent to provide a web, flanges issuing from said web, companion flanges issuing from said first named flanges and overlying the same and flaps issuing from said companion flanges and overlying one another, said flaps being secured together, said flaps being spaced from said web, and a reinforcing member disposed between said flaps and web.

2,164,208
GARMENT HANGER
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application January 15, 1937, Serial No. 120,750
5 Claims. (Cl. 223—89)

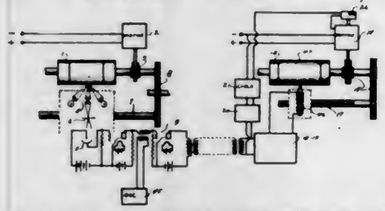
5. A garment hanger constructed from a strip of paper scored transversely intermediate its

length to provide a cross bar, links connected to the cross bar and supporting members issuing from said links, said supporting members being



adapted to be hingedly connected together at their ends, said links accommodating movement of said supporting members into juxtaposition with respect to said cross bar.

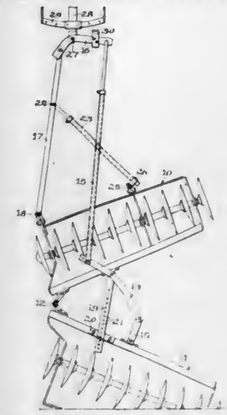
2,164,209
REMOTE CONTROL PHOTOELECTRIC ENGRAVING
Walter Howey, Benjamin Woodward, and John R. Hancock, New York, N. Y., assignors, by direct and mesne assignments, to Lee Electric Corporation, Demarest, N. J., a corporation of New Jersey
Application July 25, 1935, Serial No. 33,038
10 Claims. (Cl. 178—5.6)



1. A system for telephoning pictures which comprises modulating an audio frequency current with picture amplitudes, limiting the levels of the audio frequency current to a predetermined minimum representing an extreme tone in the picture to override line noise, and graded by other tones in the picture to a maximum level representing the other extreme tone, predetermining the maximum level to preserve the balance of a telephone network, predetermining the frequency of the audio frequency current to the allowable frequency of a common telephone system, introducing the modulated audio frequency picture signals thus produced to a telephone network by capacitance and inductance having no direct connection to the telephone network, and transferring the received signals from the telephone network by capacitance and inductance.

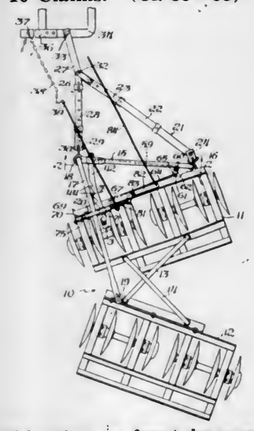
2,164,210
HITCH FOR OFFSET HARROWS
Arnold E. W. Johnson, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 15, 1937, Serial No. 169,220
7 Claims. (Cl. 55—83)

1. In combination, a pair of disk gang frames disposed in tandem relation and pivotally connected to one another, a pair of draft members operatively connected to said disk gang frames, a transverse bar pivotally connected to said draft members at spaced points, and a pulling means



comprising a frame member pivoted in spaced relation to the transverse bar at a point intermediate the points of attachment of the draft bars so as to contact the transverse bar upon pivoting of the means with respect to the bar.

2,164,211
HARROW CONSTRUCTION
Arnold E. W. Johnson, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 12, 1938, Serial No. 224,431
10 Claims. (Cl. 55—83)



1. In combination, a front harrow gang and a rear harrow gang movably connected to one another, a first link connected adjacent one end of the front gang, a second link connected at the opposite end of the rear gang and to the first link at a point spaced from the point of connection of the first link to the front gang, third and fourth links extending from connections respectively with the aforesaid points to a common point of connection, a tractor, means connecting the third and fourth links at the said common point and the tractor, an arcuate toothed member in generally parallel relation to the second link

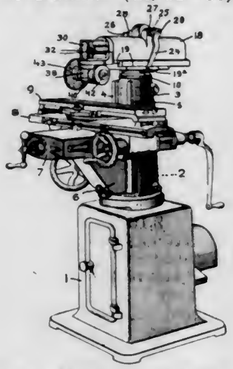
connected to the first link and to the front frame, flexible means extending from the front frame to the tractor for releasing the arcuate member from the front frame, and means for releasing the arcuate member from the first link, said last means comprising a flexible member connected to the tractor at a point offset laterally from the point of connection of the means connecting the tractor and the third and fourth links, and connecting pieces extending respectively along the first link from the arcuate member and along the front frame from the point of connection of the flexible member.

2,164,212

ATTACHMENT FOR CUTTER GRINDERS

Richard K. Le Blond, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware

Application April 21, 1938, Serial No. 203,368
6 Claims. (Cl. 51—56)



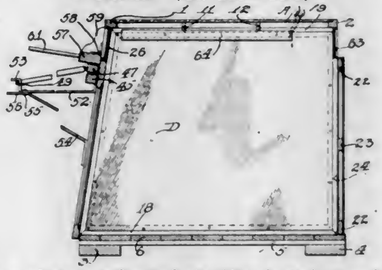
1. A grinding wheel mounting for cutter grinder comprising a base fixed on the stump of said grinder, a driving spindle journaled in said base, means for driving said spindle, a housing reciprocatably mounted on said base, a grinding wheel spindle mounted on said housing, a grinding wheel on said spindle, a splined shaft slidably engaging in a mating splined bore in said driving spindle and journaled in said housing, and means interconnecting said shaft with said grinding wheel spindle whereby said grinding wheel may be rotated and reciprocated simultaneously.

2,164,213

GLASS GREYHOUND STARTING BOX

Hattie S. Levenson, Miami, Fla.

Application December 20, 1935, Serial No. 55,333
1 Claim. (Cl. 119—15.5)



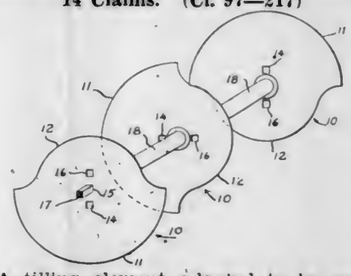
In a glass greyhound starting box, in combination, a skeleton frame, means constituting partitions defining a plurality of stalls in said box, pairs of doors for said stalls, an actuating bar connected to the left hand doors of said pairs, a second actuating bar connected to the right hand doors of said pairs, a single elastic cord connected at its ends to said bars and operative to move said bars in directions to open the doors, means engaging the mid-length of said cord outwardly of the front face of the box to tension said cord, a locking bar movable against all of said doors when closed to hold said doors closed against the tension of said cord, and a hinged stop engaging said locking bar for holding it in locking position against said doors.

2,164,214

TILLING IMPLEMENT

Alexus C. Lindgren, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application December 20, 1937, Serial No. 180,679
14 Claims. (Cl. 97—217)



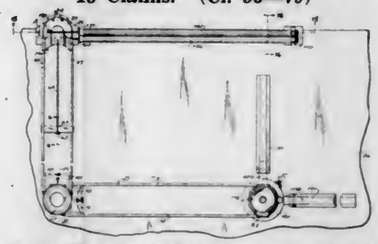
1. A tilling element adapted to be mounted on a shaft and comprising a member having a pair of diametrically opposed, semi-circular cutting edges, each edge being formed about substantially a common center and each having a radius of a different length, said member being provided with means for mounting the member on the shaft.

2,164,215

DRAFTING MACHINE

Charles H. Little, Cleveland Heights, Ohio, assignor of one-tenth to Charles Hubbard Little, Cleveland Heights, Ohio

Application October 12, 1935, Serial No. 44,747
15 Claims. (Cl. 33—79)



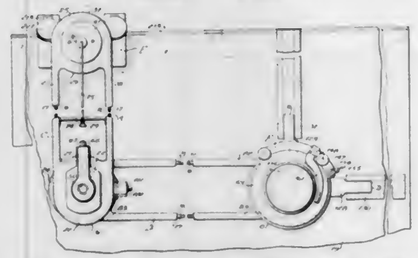
1. A drafting machine comprising a parallel motion arm, said parallel motion arm comprising a plurality of wheels, a flexible compound band encircling said wheels, said compound band comprising an endless flat band and an endless cable band encircling said flat band, and a strut operatively connected to said wheels for maintaining said wheels in spaced relation, said strut comprising a plurality of side members of channel section partly enclosing said compound band between the wheels.

2,164,216

DRAFTING MACHINE

Charles H. Little, Cleveland Heights, Ohio, assignor of one-tenth to Charles Hubbard Little, Cleveland Heights, Ohio

Application February 15, 1936, Serial No. 64,139
Renewed May 12, 1939
15 Claims. (Cl. 33—79)



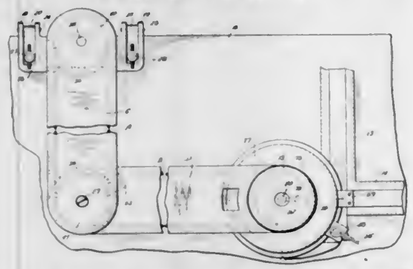
1. A drafting machine comprising a plurality of wheels, a flexible band encircling said wheels, and a strut operatively connected to said wheels for maintaining the same in spaced relation, said strut comprising a member including end sections overlying said wheels and connected by a pair of side rods partially enclosing said band and having an opening along one side.

2,164,217

DRAFTING MACHINE

Charles H. Little, Cleveland Heights, Ohio, assignor of one-tenth to Charles Hubbard Little, Cleveland Heights, Ohio

Application February 15, 1936, Serial No. 64,140
2 Claims. (Cl. 33—79)



1. A drafting machine comprising a parallel motion mechanism, said parallel motion mechanism comprising a pair of wheels, a flexible band operatively connected to said wheels, a strut made of a plastic, a member rotatably connected to one end of said strut, and means for operatively connecting one of said wheels with said member with the axis thereof eccentric to the axis of rotation of said member.

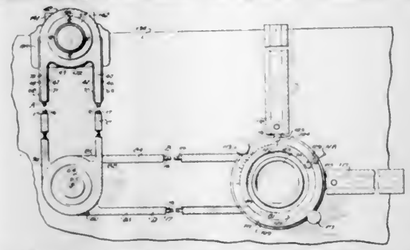
2,164,218

DRAFTING MACHINE

Charles H. Little, Cleveland Heights, Ohio, assignor of one-tenth to Charles Hubbard Little, Cleveland Heights, Ohio

Application February 15, 1936, Serial No. 64,141
7 Claims. (Cl. 33—79)

1. A drafting machine comprising a parallel motion arm, said parallel motion arm comprising a pair of wheels, a band comprising a flat metal band encircled by a flexible cable band encircling said wheels, a strut consisting of a one-piece member operatively connected to said wheels for maintaining the same in spaced relation, and



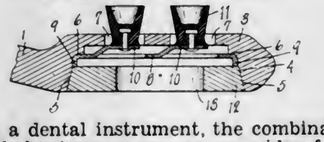
anti-friction bearings interposed between said wheels and said strut.

2,164,219

DENTAL MASSAGE APPLIANCE

James J. McGerry, East Grand Rapids, Mich., assignor, by direct and mesne assignments, to Hygienic Arts Corporation, Muskegon, Mich., a corporation of Michigan

Application August 30, 1937, Serial No. 161,574
4 Claims. (Cl. 128—62)



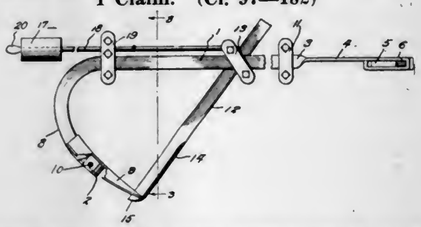
1. In a dental instrument, the combination of a handle having a recess on one side of its end and apertured between the opposite side of said end and the bottom of said recess, a shoulder in said recess, a spring metal plate fitted in said recess and abutting against said shoulder and having a pair of spring tongues struck up therefrom, a resilient cup member mounted on each spring tongue and extending through the apertured portion of the handle and beyond the surface thereof, and a plug having a central aperture fitted in the recess of the handle and engaging said spring plate to hold it in position in said recess, whereby a flushing passage is provided through the handle past said cup members.

2,164,220

PLOW

William T. Nash, Appomattox, Va.

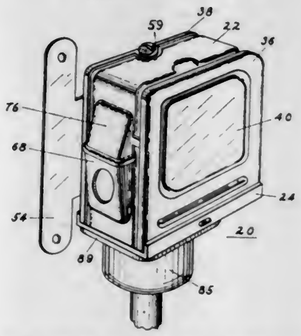
Application May 10, 1937, Serial No. 141,871
1 Claim. (Cl. 97—182)



Plow comprising a beam formed integrally from a flat steel bar bent upon itself in the middle, the two sides thus formed being suitably spaced in parallel relation from the middle to a point adjacent their ends, said plow beam adjacent the middle being curved downwardly and forwardly and forming a resilient support for a plow point, the said plow beam in front of the downwardly curved portion being substantially horizontal, the

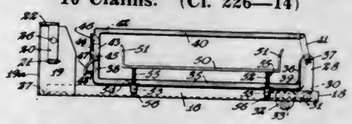
sides of said plow beam at a point adjacent their free ends being twisted substantially at right angles and divergently spread at an acute angle, the ends of said divergent portions being bent back to form elongated loops, a plow point secured to said plow beam at the lower end of the curved portion, a sword having its upper end extending between the sides of the plow beam and adjustably clamped thereto along the intermediate part of said plow beam, said plow point having a recess freely embracing the lower end of said sword.

2,164,221
CONTROL APPARATUS
Estel C. Raney and Arthur M. Hoover, Columbus, Ohio, assignors to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application September 10, 1936, Serial No. 100,146
5 Claims. (Cl. 174—52)



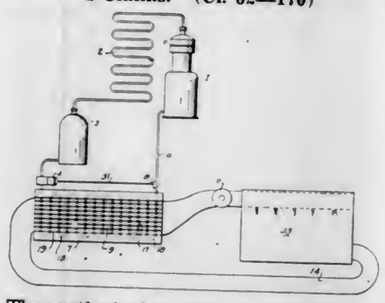
4. In an apparatus housing, a fixed wall having an opening therein; a plurality of removable wall members for covering said opening, one of said wall members having a part adapted to be interlocked with a part of said fixed wall, said parts being interlocked by sliding said one wall member relative to the fixed wall; a second one of said wall members being adapted to engage said one wall member when the latter wall member is interlocked with the fixed wall for preventing unlocking of said interlocking parts; a third removable wall member adapted to overlap a part of said second wall member for locking said second wall member in position; and means for securing the said third wall member to said housing.

2,164,222
EGG TRANSFER DEVICE
John G. Rietfort, Waseca, Minn.
Application July 6, 1937, Serial No. 152,201
10 Claims. (Cl. 226—14)



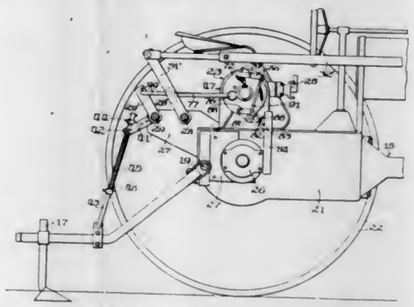
1. In a device of the class described, a substantially horizontal frame, a carriage movably secured to said frame, a large tray holder pivotally connected to said carriage, means including members adapted to extend across the top and sides of said tray for securing the same in said holder, and a holder for a smaller tray mounted in spaced relation to said members of said large tray holder to retain a tray of eggs in nesting relation to said large tray holder.

2,164,223
METHOD OF AIR CONDITIONING
Clarence A. Rodman, Detroit, Mich.
Application October 16, 1935, Serial No. 45,295
4 Claims. (Cl. 62—170)



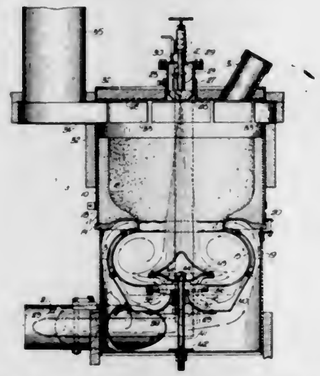
1. The method of conditioning relatively warm air having moisture content for preserving comestibles and the like which comprises the steps of causing the air to flow along a predetermined path, admitting refrigerant in heat exchanging relation to the air along a portion of the path of travel of the air while constraining the refrigerant and air from admixture with each other, whereby part of the moisture content of the air condenses, intermittently interrupting the said admission of refrigerant, controlling the interval of admission of the refrigerant to cause re-evaporation by the air of part of the condenser moisture during the intervals between each admission of refrigerant, and controlling the amount of refrigerant during each interval of flow of refrigerant.

2,164,224
LIFTING MEANS FOR TRACTOR-MOUNTED IMPLEMENTS
Hiram P. Smith, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 1, 1937, Serial No. 161,920
12 Claims. (Cl. 97—50)



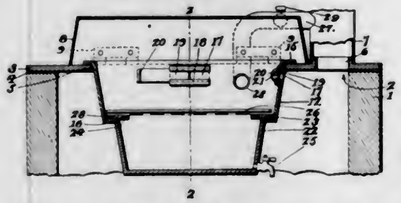
1. In combination, an implement supporting frame, an implement mounted for movement on the frame, a rock-shaft, a ratchet clutch mechanism comprising an inner clutch member secured to said rock-shaft and having lug portions spaced substantially 180 degrees apart thereon, and an outer clutch member connected with the implement having a pawl adapted to coact with the portions of the inner member, locking means cooperating with the outer clutch member for positively retaining said implement in two positions, and power actuated means operative to rock said rock-shaft.

2,164,225
LIQUID FUEL BURNER
Earl C. Walker, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 23, 1936, Serial No. 112,246
14 Claims. (Cl. 158—4)



1. In an oil burner having a combustion chamber means for supplying fuel, means for supplying air for primary partial combustion, ignition means and means for directing the resulting partial combustion products into the chamber, and in combination therewith, a deflector positioned in the combustion chamber to be impinged by the stream of products of the primary combustion and shaped to deflect said stream radially symmetrically in all directions substantially at right angles to its original direction, means for supplying secondary air in a spiral direction substantially parallel to the deflected stream of the products of the primary combustion, and additional means for deflecting the combined products of primary combustion and secondary air to cause mixing and complete combustion of said products.

2,164,226
OVEN
Henry J. Bayer, Mount Vernon, Ill.
Application April 27, 1938, Serial No. 204,674
6 Claims. (Cl. 126—273)



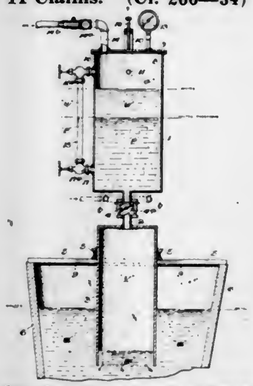
2. An oven comprising an enclosure consisting of progressively smaller sections, said sections being a telescopic meat oven and a sauce pan, a firebox, a fire plate on the box from which said sections are suspended, a cover seated upon the fire plate over the meat oven, flange connections joining the oven, pan and fire plate in smoke and vapor-tight engagement, means resting upon the flange connections to support a piece of meat in the approximate center of the vaporous atmosphere within the enclosure, and means to regulate the ingress of smoke from the firebox into the enclosure.

2,164,227
LISTING MACHINE
Edwin F. Britten, Jr., Short Hills, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application March 11, 1939, Serial No. 261,355
4 Claims. (Cl. 197—133)



1. In a listing machine having a rotary platen, a paper tape supply roll, means for feeding the tape from said roll around the platen, printing mechanism including type bars for listing items on said tape, and a casing having a tape exit slot; clamping means for the tape located adjacent said slot, and means for enabling and disabling said clamping means during the operation of the machine to prevent vibration and crackling of the loose end portion of the tape located without the casing during the striking of said type bars and to release the tape during the feeding thereof.

2,164,228
PHOSPHORUS CHARGING METHOD AND APPARATUS
John R. Burns, Powell, Ohio
Application February 16, 1938, Serial No. 190,847
11 Claims. (Cl. 266—34)



1. A unit for charging a molten mass with phosphorus, embodying a liquid phosphorus receiving and vaporizing discharge nozzle providing an internal vaporizing chamber for the free downward passage of falling liquid phosphorus, and open at its lower end, the discharge end of which is adapted to extend down into the molten mass to be phosphorized with a surface area of said molten mass exposed in said chamber; in combination with a normally-closed water-bath and phosphorus melting-elongated retort providing an internal space for a charge of solid phosphorus submerged in a water bath, said retort adapted to be heated to melt said solid phosphorus for settling in said bath to provide a supply of liquid phosphorus covered by the displaced water in the retort, said retort being elevated and normally fixed with respect to said nozzle with said nozzle

depending substantially therefrom during a charging operation; the vaporizing chamber of said nozzle being in direct outer-air-excluding communication with the liquid phosphorus containing space of said retort to directly and vertically receive liquid phosphorus dropped therefrom onto said molten mass surface; and manually controlled valve means for opening and closing said communication and for regulating the rate of direct liquid phosphorus flow into said nozzle.

2,164,229

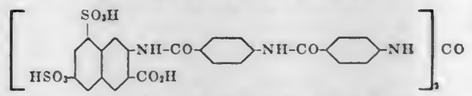
SYMMETRICAL AROMATIC UREA SUITABLE FOR MEDICINAL PURPOSES

Albert Coulthard, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application November 5, 1936, Serial No. 109,396. In Great Britain November 15, 1935

5 Claims. (Cl. 260—507)

5. A member of the class consisting of the symmetrical urea having the formula



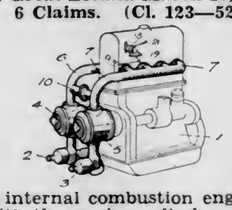
and water soluble alkali metal salts thereof.

2,164,230

INDUCTION SYSTEM FOR INTERNAL COMBUSTION ENGINES

Angus Humphrey Cuddon-Fletcher, near Great Yarmouth, England

Application March 16, 1937, Serial No. 131,256
In Great Britain March 17, 1936
6 Claims. (Cl. 123—52)



1. In an internal combustion engine, the combination with the engine cylinders of two induction manifolds, means for supplying fuel mixture to the manifolds and temperature responsive means controlling the flow of fuel mixture in one of the manifolds.

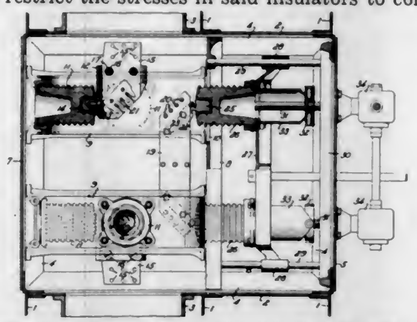
2,164,231

DISCONNECT SWITCH

Aldo M. de Bellis, Summit, N. J., assignor to Railway and Industrial Engineering Company, a corporation of Delaware

Application March 1, 1938, Serial No. 193,379
7 Claims. (Cl. 200—48)

1. In a disconnect switch, a pair of jaw members in spaced axial alinement, a plurality of insulators supporting each jaw member against transverse displacement, said insulators for each jaw member being in a plane transverse to the axis of the jaw members, a blade member, insulators carrying said blade member and located in the transverse planes of the insulators of the respective jaw members, and means for displacing said blade member and insulators to carry said blade member into and out of engagement with said jaw members; the several insulators in each of the said transverse planes being spaced circumferentially of the axis of the jaw member to restrict the stresses in said insulators to compression stresses when current surges tend to displace said switch members transversely.

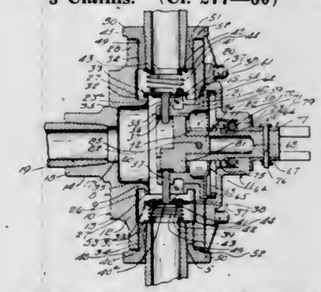


2,164,232

FUEL COCK ASSEMBLY

George T. Downey, Corry, Pa., assignor to Aero Supply Mfg. Co. Inc., Corry, Pa.

Application June 28, 1938, Serial No. 216,411
3 Claims. (Cl. 277—60)



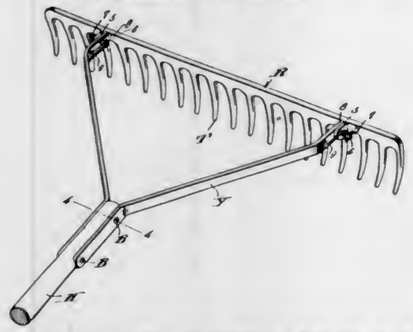
1. In a fuel cock assembly, a housing forming a fuel receiving chamber having a plurality of spaced fuel intakes, each for a fuel source, said housing having a permanently open outlet for said chamber and spaced annular flanges forming outward continuations of the walls of said inlets, said flanges constituting valve seats, spaced poppet valves for coaction with said seats for closing the inlets, each valve including a head coacting with a flange and a stem extending inwardly through an inlet, tubular extensions on said housing and encompassing said valves, a spring controlling means for each valve including a flanged collar and a coiled spring extending inwardly from the collar and seating against a valve head, each of said heads being formed with an annular flange encompassed by the inner end of the spring, combined fuel supply line couplers retaining means for said spring controlling means extending into and connected to said extensions and having their inner ends abutting said collars, an annular stationary combined holder, guide and stop element, arranged in said chamber, spaced from said outlet and having spaced guide openings for the passage of the valve stems thereinto, a rotatable structure arranged within said element for engaging with said valve stems to open the valves, said element and said structure having coacting parts for latching said structure selectively during the rotation of the latter, said housing and element providing a bearing for said structure, the latter being extended from the housing and provided with means for receiving an instrument to rotate it.

2,164,233

SELF-CLEARING RAKE

Benton E. Dubbs, Kokomo, Ind.

Application September 2, 1937, Serial No. 162,192
2 Claims. (Cl. 55—10)



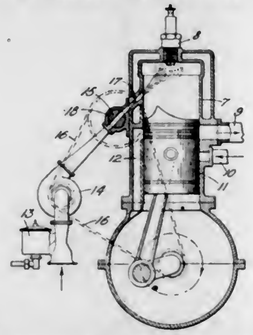
2. A clearing rake comprising a handle, a yoke with diverging arms extending from the lower end of the handle, studs extending outwardly from the lower ends of such arms, a rake head, ears formed on the rake head and receiving said studs, and coil springs surrounding the outer ends of the studs and having their inner ends engaging the yoke arms and their outer ends engaging beneath the body of the rake head.

2,164,234

METHOD OF CHARGING INTERNAL COMBUSTION ENGINES

Rudolf Arnold Erren, London, England

Application September 17, 1938, Serial No. 230,509
In Great Britain November 27, 1936
7 Claims. (Cl. 123—69)



1. In a two-cycle internal combustion engine, a working cylinder having a piston operable therein, a crank case associated with said working cylinder and containing a crank shaft to be driven by said piston, an exhaust outlet and an air inlet in said cylinder and arranged so as to be controlled by the operation of said piston, said air inlet being in communication with said crank case whereby the air may be compressed and forced into said cylinder by said piston, sparking means in the head of said cylinder, means for injecting a fuel mixture into said cylinder through a side wall thereof and directing said mixture into the vicinity of said sparking means whereby to form stratified layers of fuel and air within said cylinder with the richest layers adjacent said sparking means, a rotary valve for controlling the injection of said fuel mixture, a rotary pump for forcing said fuel mixture into said cylinder, and driving means connected to said crank shaft for operating said valve and said pump.

2,164,235

TREATING TEXTILES AND OILS THEREFOR

Walter Garner, Menston-in-Wharfedale, England

No Drawing. Application October 10, 1936, Serial No. 105,147. In Great Britain January 21, 1936

5 Claims. (Cl. 19—66)

1. Process of treating textile materials containing animal hairs which consists in oiling the material with an oil having a viscosity between 250 and 500 seconds Redwood, and containing a fully esterified di-glycol ester, subjecting the oiled material to at least one mechanical textile operation, and scouring the material.

2,164,236

TREATING TEXTILES AND OILS THEREFOR

Walter Garner, Menston-in-Wharfedale, England

No Drawing. Application July 16, 1937, Serial No. 154,071. In Great Britain January 14, 1936

1 Claim. (Cl. 28—59)

The process of oiling textile materials with partially destearinised polymerised arachis oil.

2,164,237

TREATING TEXTILES AND OILS THEREFOR

Walter Garner, Menston-in-Wharfedale, England

No Drawing. Application July 16, 1937, Serial No. 154,072. In Great Britain January 21, 1936

3 Claims. (Cl. 19—66)

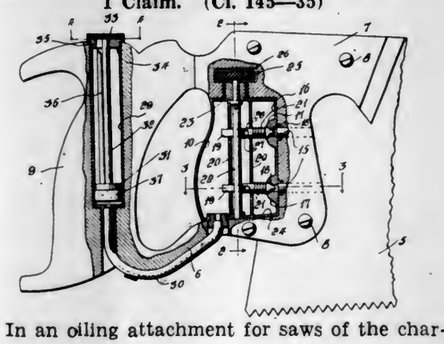
1. Process of treating textile materials which consists in oiling the material with an oxidised ester containing a cyclohexanol nucleus and a fatty acid radical containing more than eight carbon atoms having a viscosity between 200 and 650 seconds Redwood at 60° F., and being comparatively resistant to oxidation, and substantially insoluble in water but capable of being emulsified by a scouring liquid, subjecting the oiled material to at least one mechanical textile process, and scouring the material.

2,164,238

OILING ATTACHMENT FOR SAWS

Hillman Gourley, Whittier, Calif.

Application September 24, 1937, Serial No. 165,579
1 Claim. (Cl. 145—35)



In an oiling attachment for saws of the char-

acter described, a saw blade and handle, a receptacle for oil and compressed air carried by the handle, valved controlled oil passages from the receptacle to the blade, means for opening the valves, an air pump carried by the handle in communication with the oil receptacle for placing the oil in the receptacle under pressure at all times, whereby the oil is forcibly projected through the passages when the valves are opened, the valved controlled passages including tensioned valve stems engageable with valve seats, supports for the valve stems and means for moving the valve stems against tension thereon for opening the oil passages to the saw blade, including a rod rotatably journalled in the oil receptacle, pins projecting laterally of the rod and the valve stems having abutment recesses for the pins receivable in the recesses upon rotation of the rod, said handle having a side opening recess therein in axial alinement with said rod, the upper end of the rod extending into said recess and a knurled head on the upper end of the rotatable rod within the recess and projecting outwardly and laterally of the handle for rotating the rod to operate the valves.

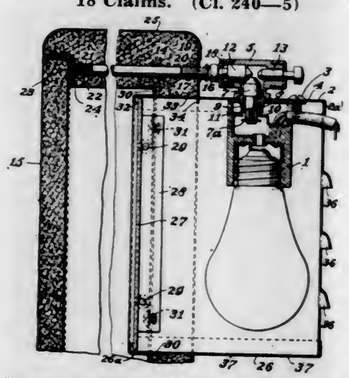
2,164,239

ILLUMINATING APPARATUS FOR OVENS OR THE LIKE

Charles J. Grayson, Huntington, W. Va., assignor to Grayson Manufacturing Company, Huntington, W. Va., a corporation of West Virginia

Application June 5, 1936, Serial No. 83,747

18 Claims. (Cl. 240—5)



17. In combination, a switch member for opening and closing a circuit, a sliding member for operating said switch member, a manually operable member for operating said switch member, said sliding and manually operable members being axially in line and extending in a direction transverse to the line of movement of said switch member and disposed on opposite sides thereof, said manually operable member being engageable by said sliding member upon operation of the latter to retract the manual member from operated position.

2,164,240

MANUFACTURE OF CHLOROHYDRINS

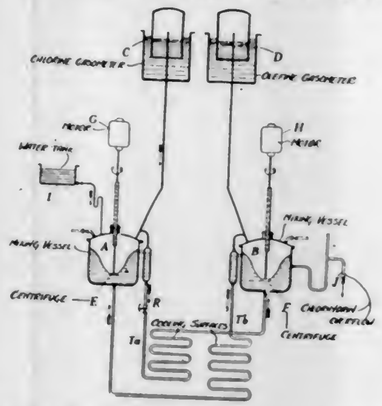
Henri Martin Guinot, Niort, Deux-Sevres, France, assignor to Usines de Melle, Melle, France, a corporation of France

Application February 26, 1936, Serial No. 65,915

In France March 6, 1935

3 Claims. (Cl. 260—634)

1. Process for the continuous production of chlorohydrins by the action of olefines on aqueous solutions of chlorine in which the chlorine gas is dissolved in water in one region, and the resultant hypochlorous acid caused to react with the olefine in a separate region, comprising essentially interconnecting the separate regions to permit of intercirculation, emulsifying the liquid with the gas in both regions by means of centrifugal agitation, utilizing the suction effect of said agitation in each region to create intensive inter-circulation of liquid between the regions, regulating said circulation to ensure that the proportion of chlorine dissolved in unit volume of the liquid is extremely small and to realize substantially complete hydrolysis of the absorbed chlorine to hypochlorous acid, continuously withdrawing the resultant chlorohydrin solution from the second region and eliminating from the aqueous chlorohydrin solution the small quantity of dichloride therein by extracting with the aid of a small quantity of a solvent only slightly soluble in water and having only a slight affinity for the chlorohydrin itself.



2,164,241

FABRIC SPREADING MEANS

William H. Hall, Jr., Trenton, N. J., assignor to Thermoid Company, Trenton, N. J., a corporation of Delaware

Original application October 13, 1936, Serial No. 105,428. Divided and this application November 29, 1937, Serial No. 177,133

4 Claims. (Cl. 139—291)



1. In a loom for weaving fabric comprising longitudinal warps and transverse wefts, means for advancing the woven fabric warpwise from the fell, a support extending across the fabric from side to side thereof, fabric engaging elements mounted on said support for free rotation about axes disposed at angles to the axis of said support and arranged in divergent angular relation to the center line of the fabric and in divergent relation to a plane perpendicular to the plane of the fabric and coinciding with said center line for spreading the fabric weftwise during said advancement thereof, and means affording rotary adjustability of said support about its own axis for varying said angle of divergency of said spreading elements.

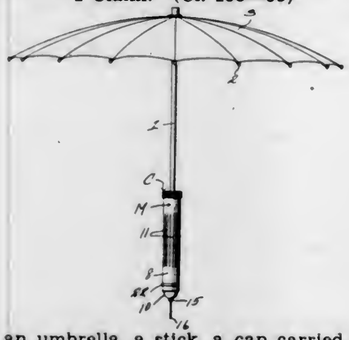
2,164,242

UMBRELLA

Abner E. Henry, Greensburg, Pa.

Application August 6, 1938, Serial No. 223,516

1 Claim. (Cl. 135—33)



In an umbrella, a stick, a cap carried by the outer end portion of the stick and having oppositely facing sockets, a handle member comprising telescoping tubular sections, said sections when extended housing the stick and the conventional ribs and cover carried thereby, the outer end portion of one of the sections of the handle member engaging within one of the sockets of the cap, said extremity of the section of the handle member engaging within the second socket of the cap when the stick is withdrawn and in position for use, the sections of the handle member telescoping when the stick is in said second position, said sections when extended receiving the stick and the conventional umbrella structure carried thereby without collapsing said stick or any of said structure, the inner end portion of the outer tubular section having an opening, and a spring pressed lug freely passing through said opening, the opposite end portions of the inner section having openings to receive said lug when said sections are either extended or contracted to lock said sections against relative movement when in either of said positions.

2,164,243

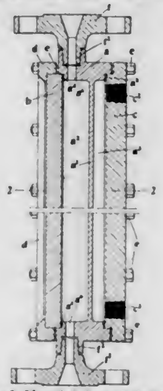
LIQUID LEVEL GAUGE

Michael Edmund Hubbard, Paris, France

Application June 30, 1936, Serial No. 88,139

In Great Britain December 27, 1935

2 Claims. (Cl. 73—330)



1. An external liquid level indicator applicable to a vessel for the storage of a liquid of low boiling point such as propane, butane or the like, and consisting of a body of constructional material in which two chambers are provided separated by a wall of small thickness, one of said chambers being closed by a transparent cover plate and serving for the liquid column of the indicator and the other chamber being closed by a cover plate to serve for a cooling agent, tubular connections between the upper and lower ends of the said body and the upper and lower ends of the said storage vessel for communication between the said storage vessel and the respective ends of the said chamber serving for the liquid column of the indicator and means at the lower and upper ends of the said body for the admission of the cooling agent into and discharge from the other chamber.

2,164,244

APPLICATOR

Albert H. Jung, Flushing, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York

Application December 21, 1938, Serial No. 247,117

7 Claims. (Cl. 91—67.4)



1. A combined cap and applicator comprising a molded cap formed with a recessed portion, an applicator having an enlarged head within said recessed portion, a washer about said applicator and engaging said head, said recessed portion being measurably larger than said head portion, said recessed portion being substantially filled with cement engaging the walls of said recessed portion, the head of said applicator, and at least a portion of the surface of said washer simultaneously to effect a relatively rigid unitary assembly.

2,164,245

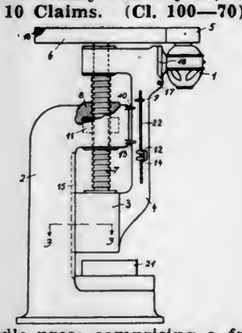
SPINDLE PRESS

Otto Kienzle, Berlin-Sudende, Germany

Application January 21, 1937, Serial No. 121,719

In Germany January 23, 1936

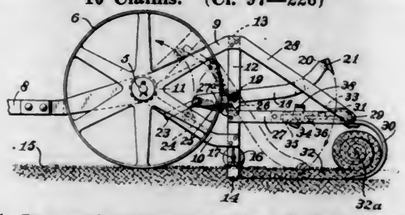
10 Claims. (Cl. 100—70)



1. A spindle press comprising a framework, a stationary threaded portion carried by said framework, a sliding member mounted in guide ways on said framework and terminating at one end in a press ram, a screw threaded spindle engaging said threaded portion and being rotatably supported by said sliding member with one end

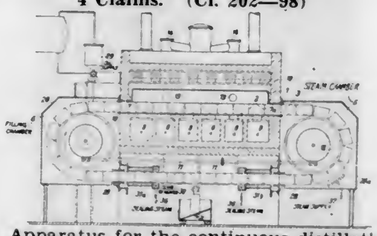
operatively engaging said ram, the other end of said spindle carrying a fly wheel, a reversible electric motor mounted on said sliding member and adapted to rotate said spindle, whereby said motor and sliding member are adapted to follow the strokes of said spindle.

2,164,246
SOD CUTTER
Roe Q. Kirkpatrick, Anderson, Ind.
Application January 3, 1938, Serial No. 183,215
10 Claims. (Cl. 97—226)



1. In a sod cutting machine of the character described, ground wheels and a main frame supported thereby, a sod-strip cutting blade carried by the frame, means carried by the rear end of the frame for moving the cut sod-strip into roll formation and means for severing the sod-strip into predetermined lengths, the sod-strip severing means including an auxiliary frame pivotally supported on the main frame and a severing blade carried by the auxiliary frame, resilient connections between the two frames for normally holding the severing blade in its elevated inoperative position and a cooperating means carried by a ground wheel and the auxiliary frame for lowering the severing blade into severing relation to a cut sod-strip.

2,164,247
APPARATUS FOR THE CONTINUOUS DISTILLATION OF HIGH-BOILING HYDROCARBONS TO COKE
Alfred Knudsen, Astra (Chubut), Argentina, assignor to the firm "Astra" Compañía Argentina de Petróleo Sociedad Anónima, Buenos Aires, Argentina
Application February 10, 1937, Serial No. 125,166
In Germany June 20, 1936
4 Claims. (Cl. 202—98)



1. Apparatus for the continuous distillation of high-boiling hydrocarbons to coke comprising, in combination, a furnace having an oil filling chamber, a distillation chamber with two openings in the walls thereof, and a steam chamber, an endless chain of distillation containers having one of the stretches thereof arranged to pass continuously through said chambers and the other stretch thereof arranged to pass out of the steam chamber and into the filling chamber, all of said containers in the chain being adapted to receive oil, and sealing elements at the inlet for the container chain into the filling chamber and at its outlet from the steam chamber, said sealing elements cooperating with the containers of the chain and sealing the filling chamber and the steam chamber hermetically, the filling, distillation and steam chambers enclosing and hermetically sealing from the outer air, the entire extent of the container chain excepting the length of the stretch thereof between said sealing elements which is exposed to the outer air for the removal of the coke.

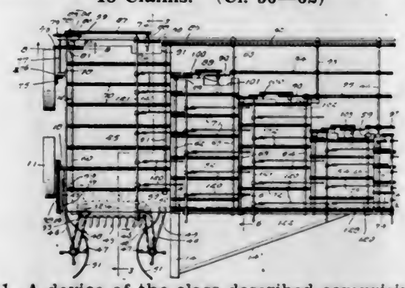
2,164,248
PRODUCTION OF LAMINATED FABRICS
Leslie Gordon Lawrie, Reginald John William Reynolds, and Eric Everard Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application September 25, 1935, Serial No. 42,140. In Great Britain September 26, 1934
5 Claims. (Cl. 154—2)

1. A process for producing laminated fabrics which comprises treating a cellulosic fabric in the presence of alkali with an alkylene oxide compound of the general formula

$$CH_2{-}CH{-}R$$
$$\quad\quad O$$

wherein R stands for H, CH_3 and CH_2OH, in proportion of from ⅓ to 1½ mols of the latter per unit of $C_6H_{10}O_5$ in the fabric to produce a superficial hydroxyalkylation equivalent to that produced at about room temperature and a time from about 17 to about 20 hours, washing the product free of the reagents used and joining the product, while wet with water to another fibrous cellulosic sheet material by heat and pressure equivalent to ironing.

2,164,249
SUGARCANE CUTTER
Mack Carter Lee, Rayne, La., assignor of one-fourth to Charlie Porter, Port Arthur, Tex.
Application August 4, 1938, Serial No. 223,117
18 Claims. (Cl. 56—62)

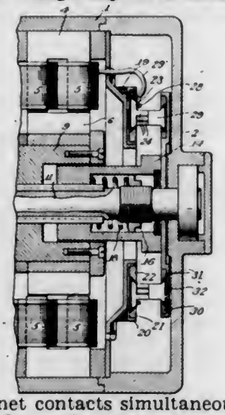


1. A device of the class described comprising a wheeled vehicle, said vehicle being provided with a plurality of floors arranged in stepped relationship relatively to each other, endless conveyor means arranged to move above each of said floors, cutter means disposed in front of and beneath the highest of said floors, and rotary cutting blades positioned at the outer end of each of said floors and in offset relationship relatively to each other.

2,164,250
ELECTRIC MOTOR
Oliver Lindell, Shawnee, Okla.
Application February 23, 1938, Serial No. 192,147
3 Claims. (Cl. 172—36)

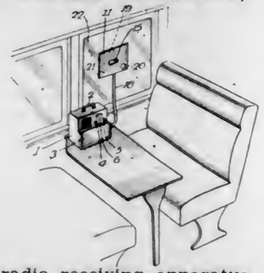
1. In an electric motor of the class described,

an annular series of magnet shunting contacts, an annular series of magnet contacts opposite the shunting contacts, magnet lead wires connected to the magnet contacts, the magnet shunting contacts being adapted to bridge a plurality



of the magnet contacts simultaneously, and lugs projecting from the magnet contacts having wiping engagement with the shunting contacts and arranged in stepped relation to provide air gaps between the lugs.

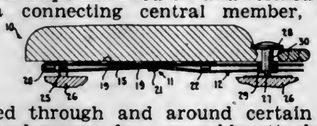
2,164,251
PORTABLE RADIO RECEIVER
Eugene F. McDonald, Jr., Chicago, Ill.
Application May 4, 1939, Serial No. 271,653
6 Claims. (Cl. 250—14)



3. In a radio receiving apparatus comprising a radio receiving set operative under normal conditions to receive radio signals, the improvement which comprises, means for enhancing reception of said signals under abnormal conditions when said set is positioned within a shielding structure having an opening therein, said means comprising an antenna structure including conductors forming a loop attached to a panel, an elongated flexible member electrically connecting said loop to said set, and means provided on said panel forming a unitary structure therewith and constructed and arranged for quickly attachably and detachably securing the same to a surface in any one of a plurality of positions relative to said opening and apart from said set.

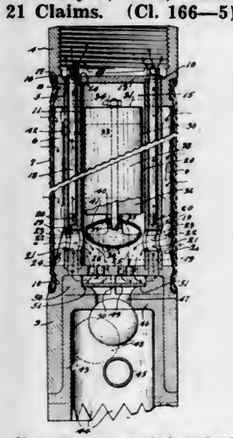
2,164,252
SHOULDER ORNAMENT MOUNTING MEANS
Peter A. Merrigan, New York, N. Y.
Application February 21, 1938, Serial No. 191,777
2 Claims. (Cl. 2—246)

1. Mounting means for shoulder ornaments, comprising a strap receiving member adapted to be carried on and substantially fixedly attached to said ornament, said member including a plurality of spaced, aligned, substantially parallel, flattened loops mounted on and formed integral with a connecting central member, a strap



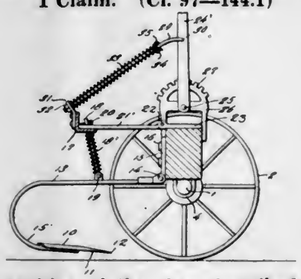
threaded through and around certain of said loops, and means for removably attaching said strap to a garment.

2,164,253
WELL POINT
Thomas F. Moore, Morris Plains, N. J.
Application January 5, 1938, Serial No. 183,551
21 Claims. (Cl. 166—5)



7. In a well point, coaxial tubular members disposed one within the other and defining an annular passage therebetween, a screen surrounding said outer tubular member in radially spaced relation thereto and defining therebetween a filtrate chamber, said filtrate chamber being normally in open communication with the lower end of the annular passage aforesaid through passages extending through both tubular members adjacent to the lower end thereof and across the annular passage and opening into the interior of the inner tubular member, means for closing the upper end of said inner tubular member, whereby to form an inner chamber, and means operable responsive to the fluid level in said chamber for automatically controlling the flow of fluid through the well point when the well point is connected to a means for producing suction therein.

2,164,254
WEEDING MACHINE
Oscar H. Olson, Julesburg, Colo.
Application July 28, 1938, Serial No. 221,839
1 Claim. (Cl. 97—144.1)



In a machine of the class described. a wheel

supported axle, a beam extending along said axle, a battery of cutting blades, means to mount said blades on said beam to trail behind the same and for adjustment into and out of the ground comprising a battery of blade carrying arms hinged at one end to the rear of said beam for vertical swinging movement in laterally spaced relation, a pair of links hinged to said beam for vertical swinging movement above said battery of arms and adjacent to opposite ends of said battery of arms, a cross bar connecting the free ends of said links, an upwardly yielding connection between each arm and said bar, a hand lever on said beam swingable into different set positions, and an operating connection between said lever and bar yielding in the direction of said lever.

2,164,255
PROCESS OF FERMENTING MOLASSES AND LIKE MASHES
William Ludwell Owen, Baton Rouge, La.
No Drawing. Application April 29, 1935, Serial No. 18,965
13 Claims. (Cl. 195—13)

9. The method of fermenting disaccharides by the organism *B. tetryl*, which consists in adding autolyzed yeast material to a mash containing a disaccharide which is capable of inversion for producing invert sugar, effecting inversion of the disaccharide by the action of the autolyzed yeast material, seeding with a culture of *B. tetryl* at a time substantially prior to completion of the inversion so that inversion and fermentation will at least in part be concurrent, and fermenting the mixture by the action of the the organism in the presence of the autolyzed yeast material.

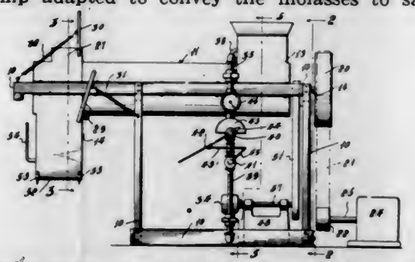
2,164,256
BLOWPIPE
Arvid L. Peterson, Los Angeles, Calif., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application March 23, 1935, Serial No. 12,584
28 Claims. (Cl. 158—27.4)



26. A blowpipe comprising, in combination, a gas inlet body member having a socket portion provided with frusto-conical female seating means; a gas outlet head member having a socket portion provided with frusto-conical female seating means; the socket portions of said members being telescoped; an internal coupling member having opposed frusto-conical male seating means coupled with the corresponding female seating means of said body and head members, and having gas passage means therein; and means securing said members in longitudinal compression whereby said coupling member is caused to assume a postion such that an effective leak-proof but longitudinally separable surface-to-surface gas-tight contact is established respectively between both of said frusto-conical male and female seating means.

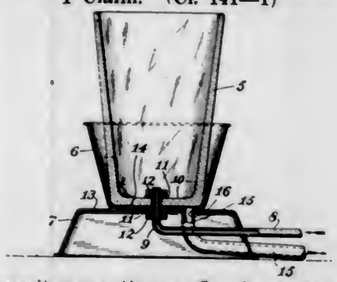
2,164,257
SWEET-FEED MIXER
Tom H. Riza, Cleburne, Tex.
Application February 24, 1938, Serial No. 192,420
3 Claims. (Cl. 259—9)

1. In a device of the class described, a mixing chamber adapted to contain forage and molasses, agitating and conveying means mounted in said chamber, a plurality of nozzles connected to a molasses conduit and projecting upwardly therefrom and adapted to mix finely sprayed molasses with the forage as it passes into said chamber, a pump adapted to convey the molasses to said



nozzles under pressure, and a plurality of connected valves mounted in said conduit and controlled by a common lever to vary the pressure of the molasses and to permit the molasses to drain back through said conduit when said mixer is not in operation.

2,164,258
SANITARY CONTINUOUS-FLOW ARTICLE HOLDER
Frank Schultz, Martinsville, N. J.
Application June 10, 1938, Serial No. 213,083
1 Claim. (Cl. 141—1)

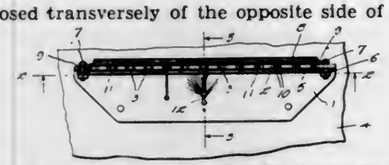


In a sanitary continuous flow beverage scraper holder, a water glass, a drain receptacle in which the water glass is mounted and means for continuously supplying water to the glass with the water overflowing from the glass into the drain receptacle, a drain pipe in communication with the bottom wall of the drain receptacle and the bottom wall of the drain receptacle being corrugated with the bottom wall of the glass supported on said corrugated wall to provide a water flow passage in the drain receptacle between the bottom of the glass and the bottom wall of the receptacle, the water supply means including a pipe anchored at its discharge end in the bottom wall of the water glass, whereby the water continuously flows upwardly from the bottom of the glass to the top thereof for overflow into the drain receptacle.

2,164,259
FISHHOOK FILE OR CARRIER
George D. Schweigert, Denver, Colo.
Application November 18, 1937, Serial No. 175,326
8 Claims. (Cl. 43—32)

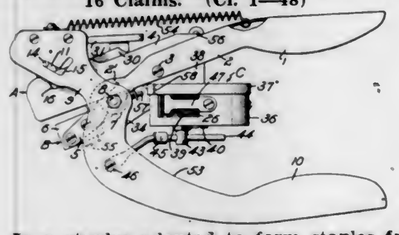
1. A fishhook file comprising a body provided with a slot which is adapted to receive the pointed portion of a fishhook, a body disposed transversely of the slot upon one side of said first body over which the hook is engaged, and resilient means

disposed transversely of the opposite side of the



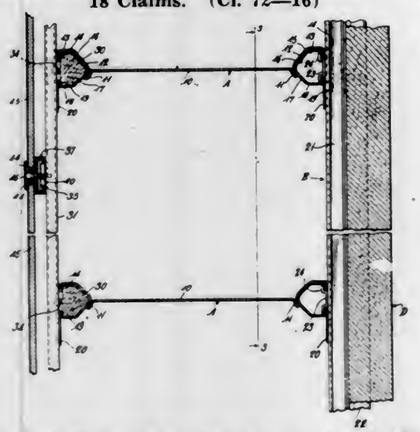
slot and opposite said second body, for maintaining the hook in position in the slot.

2,164,260
STAPLER
Edward L. Sibley, Bennington, Vt.
Application June 29, 1937, Serial No. 151,045
16 Claims. (Cl. 1—48)



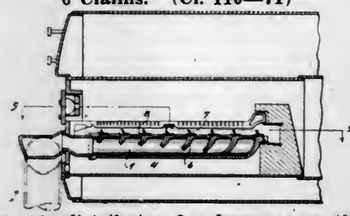
1. In a stapler adapted to form staples from wire and to drive them, a stapler head, an anvil, and means for supplying staple-forming wire to said head, two pivoted members for actuating said head, anvil and wire-supplying means during the staple forming and driving operations, said head having a frame to which said actuating members are pivoted and confining staple forming and driving means including a yoke and a staple driver relatively movable, and separate camming means carried by one of said actuating members and cooperating directly with said yoke and staple driver respectively to impart desired staple forming and driving movement thereto.

2,164,261
BUILDING WALL CONSTRUCTION
Frederick M. Small, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a corporation of Delaware
Application November 7, 1936, Serial No. 109,767
18 Claims. (Cl. 72—16)



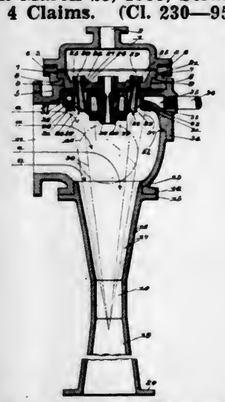
1. In a wall construction, a one piece studding comprising a web portion and a channel shaped portion at each longitudinal edge which has its mouth opening outwardly in the plane of the web portion, and means received in each channel shaped portion for securing surfacing material to said studding.

2,164,262
AIR DISTRIBUTOR
Johann Wagner, Breslau, Germany
Application June 11, 1936, Serial No. 84,759
In Germany June 13, 1935
6 Claims. (Cl. 110—71)



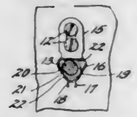
1. An air distributor for furnaces or the like having a forced air feed beneath the grate thereof, comprising an air supply conduit positioned beneath the grate of the furnace, an air inlet at one end of said conduit, the upper portion of said conduit being formed to provide a plurality of spaced transverse slots therein, each of said slots being longer than the slot next nearest the inlet end of said conduit, open box-like projections formed on the top of said conduit around each of said slots, and said projections being flared outwardly beyond the planes of the sides of said conduit whereby to provide diverging continuations of said slots.

2,164,263
JET AIR PUMP
John J. Wall, Detroit, Mich.
Application March 25, 1938, Serial No. 198,131
4 Claims. (Cl. 230—95)



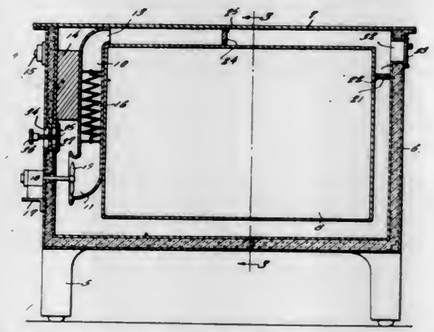
1. A pump comprising a Venturi tube having a suction opening and a throat, a hot motive fluid chest, a set of nozzles pendent from the chest communicating therewith and being directed past the opening toward the throat, a cooling fluid chamber having oversize openings through which said nozzles project providing ample spaces around the nozzles to prevent the transfer of heat, and other nozzles carried by said chamber, communicating with the interior and being directed to the throat, the various nozzles being interspersed to produce a commingling of the motive and cooling fluids prior to their entry into the tube.

2,164,264
SPRING CLIP
Fred W. Waterman, Jr., Johnstown, Pa., assignor to The Universal Clay Products Company, Sandusky, Ohio, a corporation of Ohio
Application October 10, 1938, Serial No. 234,254
1 Claim. (Cl. 248—50)



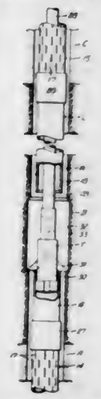
Means for securing a neon tube support to a supporting member, comprising an apertured base portion adapted to be secured to the supporting member, and a clamp portion integral therewith and having its axis perpendicular to said base portion, said clamp portion comprising an open-ended resilient split shell having a roughly triangular section in a plane parallel to said base portion adapted to grip said neon tube support at three spaced points, one longitudinal edge of said shell having a pair of spaced projections, the opposite edge of said shell having a centrally disposed projection adapted to extend between and beyond said spaced projections, each of said projections having an outwardly turned portion, said outwardly turned portions lying in approximately parallel planes, whereby said shell may be expanded by pressing said outwardly turned portions toward a common plane, said device being formed from a single piece of resilient sheet metal.

2,164,265
STOVE
James G. Wilson, Welch, W. Va., assignor of one-half to John K. Cooper, Premier, W. Va.
Application June 11, 1938, Serial No. 213,253
4 Claims. (Cl. 219—35)



4. In a stove of the character described, an outer casing all the walls of which except the top are insulated, an oven arranged within said casing and having certain of its walls spaced from corresponding walls of the casing to provide an air passage extending continuously around the oven, a tubular air duct in the passage having its opposite ends communicating with the upper and lower portions of the passage, said passage having continuous communication independent of the duct, electric heating elements in the duct and means for closing communication through the passage and comprising pivoted valve members extending transversely of the passage at spaced points therein to confine the heated air to the top of the casing or to a portion thereof.

2,164,266
METHOD AND APPARATUS FOR PRODUCING FLUID FROM WELLS
Arthur L. Armentrout and Elwin B. Hall, Los Angeles, Calif., assignors, by direct and mesne assignments, to Security Engineering Co. Inc., a corporation of California
Application February 16, 1938, Serial No. 190,738
8 Claims. (Cl. 166—1)



1. A liner for use in a well having producing strata separated by a non-producing stratum comprising perforate tubular liner sections for arrangement in the portions of the well penetrating said producing strata, and a readily drillable liner section between the first mentioned sections for arrangement in the portion of the well penetrating said non-producing stratum.

2,164,267
METHOD OF AND APPARATUS FOR MAKING MULTIPART TUBING
William A. Black, East Cleveland, Ohio, assignor to Steel & Tubes, Inc., a corporation of Ohio
Application April 10, 1937, Serial No. 136,165
13 Claims. (Cl. 113—33)



1. The method of manufacturing multi-part metal tubing which includes the steps of simultaneously forming strips of metal into a multi-part tubular blank, welding the opposed edge surfaces of the outer tube to form a tube having a longitudinally welded seam, and at some time prior to the welding operation treating the edge portions of the strip constituting the inner tube to prevent the edge surfaces thereof from being welded together during the welding of the outer tube.

6. In apparatus for manufacturing multi-part metal tubing, the combination of means, including forming rolls for simultaneously forming two strips of metal into concentric tubes constituting a tubular blank, means, disposed outside of said blank, for welding together the opposed longitudinal edge surfaces of the outer tube of said blank and means engaging the inner tube for bending the edge portions thereof to provide a space of high electrical resistance between the longitudinal edges thereof during welding together of the abutting edges of the outer tube.

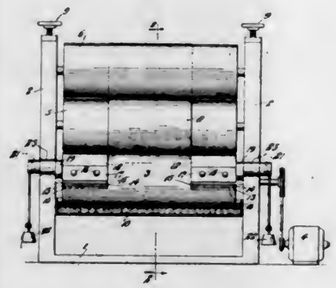
2,164,268
HEXANEPENTOLS AND THEIR PROCESS OF PREPARATION
Lloyd W. Covert, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application September 24, 1937, Serial No. 165,487
17 Claims. (Cl. 260—635)

1. A process of producing hexanepentols which comprises reacting a hexitol with an approximately equimolecular amount of hydrogen in the presence of a hydrogenation catalyst at a temperature of 180–300° C.

2,164,269
ADHESIVE AND METHOD OF MAKING THE SAME
William Dawes Fawthrop, Seattle, Wash., assignor to I. F. Laucks, Inc., Seattle, Wash., a corporation of Washington
No Drawing. Application October 14, 1933, Serial No. 693,578
4 Claims. (Cl. 134—23.1)

4. A fish glue comprising a fish meal softened from dry state into a liquidly spreadable glue, and containing metal compounds in combination and being water-insoluble if dried.

2,164,270
GRAVURE PRINTING
Fred George, Lakewood, Ohio, assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application December 28, 1937, Serial No. 182,125
10 Claims. (Cl. 101—153)

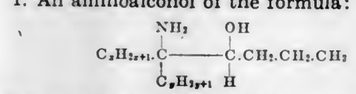


1. In a machine for marking paper and the like of varying width, an engraved marking cylinder carrying marking composition, an impression cylinder, and means for preventing transfer of marking composition from the marking cylinder to such portions of the impression cylinder as are exposed to contact with the marking cylinder, said means comprising doctor blades of deformable resilient material impinging on the portions of the marking cylinder which contact the exposed portions of the impression cylinder, and air ducts in the inner ends of said doctor blades directed inwardly against the undoctored portion of the marking cylinder.

3. The method of marking paper with an engraved cylinder of greater width than the paper, which comprises applying marking composition to the entire cylinder, and thereafter removing marking composition from the surface and the cells of such portions of the cylinder as do not contact the paper.

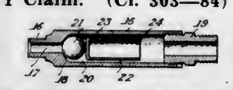
2,164,271
SECONDARY AMINOALCOHOLS
Henry B. Hass, West Lafayette, and Byron M. Vanderbilt, Terre Haute, Ind., assignors to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana
No Drawing. Application August 13, 1937, Serial No. 158,955
5 Claims. (Cl. 260—584)

1. An aminoalcohol of the formula:



wherein x is an integer, y is a numeral selected from the class consisting of zero and integers, and $x+y$ is less than four.

2,164,272
HYDRAULIC SAFETY DEVICE
Ira W. Higgins and Herbert L. Pickett, Chattanooga, Tenn., assignors of one-fourth to Emmett S. Newton and one-fourth to Chester L. Frost, Chattanooga, Tenn.
Application May 11, 1938, Serial No. 207,387
1 Claim. (Cl. 303—84)

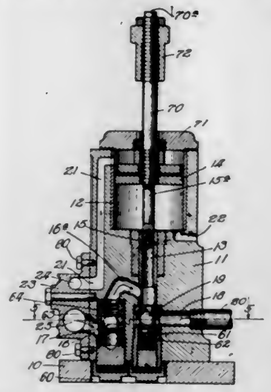


A safety device for a hydraulic brake system having a main source of fluid supply, fluid pressure brake mechanisms, lines leading from said supply to the brake mechanisms, comprising a cylindrical body horizontally arranged in each line and having end openings communicative with the latter therethrough, a weighed spherical valve in said body for checking flow of fluid therethrough from the source of supply through the line when the latter is broken and normally inactive when the line is unbroken, a seat at one open end for said valve, and a tubular follower closed at one end and open at the other loosely disposed within said cylindrical body with its closed end next to the valve on the side thereof opposite to the checking side of said valve and the open end confronting the open end of the cylinder remote from the valve seat, the valve and follower being of equal diameters considerably less than the internal diameter of the cylindrical body.

2,164,273
MULTIPLE PRESSURE LUBRICATOR
Walter D. Hodson, Chicago, Ill., assignor to The Hodson Corporation, Chicago, Ill., a corporation of Delaware
Application January 21, 1937, Serial No. 121,674
3 Claims. (Cl. 184—29)

1. A multiple lubricator, including a base, a plurality of cylinders supported on said base, each cylinder having a large bore at its upper end and a bore below and in line with the large bore, relatively small in cross section to materially increase the ratio of pressure, a large piston in the large bore, a small piston in the lower bore to be forced downwardly by the downward movement of the large piston, a removable closure for the large bore, said pistons being removable upwardly through the large bore, a grease inlet laterally connected to the lower end of the small bore, a check valve in said inlet, a grease outlet connected to the lower end of the small bore, a check valve in said grease outlet, each cylinder having an air inlet passage in its wall open at the upper end of the large bore, a removable

manifold above said base at one side of the cylinders having an air conduit connecting the air inlets and having a grease conduit connecting the grease inlets, said base being open in line with the said valves, means mounting said valves for removal downwardly through said base, means



for supplying grease under pressure to said grease conduit, and means for intermittently supplying air under pressure from the same source as the air pressure supplied for the grease to the air conduit and then venting the same to atmosphere.

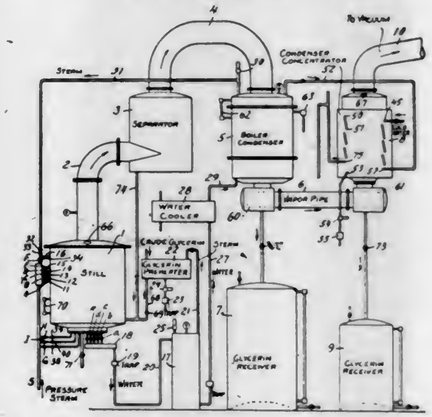
2,164,274

DISTILLATION OF GLYCERIN

Martin Hill Ittner, Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Application December 23, 1935, Serial No. 55,783

10 Claims. (Cl. 202—39)



2. The method of promoting the distillation of glycerin with the aid of open jet steam discharged into the body of glycerin undergoing distillation which comprises bringing the hot glycerin vapors from such distillation into indirect contact with water free from objectionable volatile impurities to effect simultaneous condensation of glycerin and generation of steam from the water, and supplying steam so produced, free from objectionable volatile impurities, as the open jet steam used to promote the distillation of the glycerin.

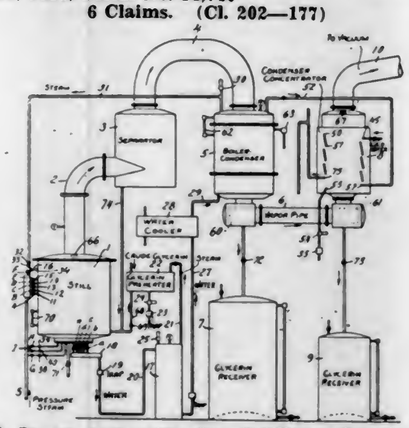
2,164,275

DISTILLATION OF GLYCERIN

Martin Hill Ittner, Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Original application December 23, 1935, Serial No. 55,783. Divided and this application June 11, 1936, Serial No. 84,740

6 Claims. (Cl. 202—177)



2. In an apparatus for distilling glycerin, a still having closed steam coils therein to furnish heat for the volatilization of the glycerin during distillation, a boiler-condenser connected to said still for receiving and condensing glycerin volatilized in said still and for the generation of steam from boiling water by utilization of the heat of condensation from the condensing glycerin for converting the boiling water into steam, and means for drawing off condensed water from the closed steam coils and supplying the same to the boiler-condenser for converting into steam, and means for collecting the said condensed glycerin.

2,164,276

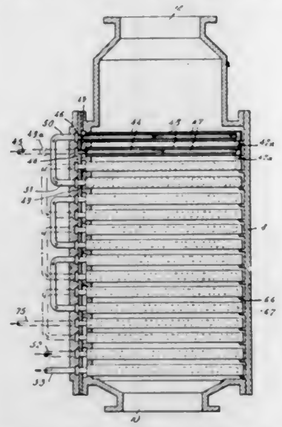
DISTILLATION OF GLYCERIN

Martin Hill Ittner, Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Original applications December 23, 1935, Serial No. 55,783, and June 11, 1936, Serial No. 84,740. Divided and this application November 8, 1938, Serial No. 239,431

4 Claims. (Cl. 202—185)

1. In an apparatus for the distillation of high boiling liquids with the aid of open jet steam under diminished pressure, a condenser-concentrator for the condensation and concentration of high boiling liquids with the aid of a cooling liquid, said condenser-concentrator having an inlet for the vapors of the high boiling liquid and steam, etc. at the bottom and an outlet for uncondensed steam, etc. at the top, said condenser-concentrator having means for supplying a cooling liquid in its upper part and closed means with horizontally extending surfaces for causing the same to flow downwardly in a direction generally counter-current to the upwardly flowing vapors, and in indirect contact with the vapors and condensed liquid, means for removing said cooling liquid in the lower part of the apparatus and means for causing condensed liquid to flow downwardly in indirect contact with said cooling liquid and in direct contact with the vapors with resulting gradual heating of the cooling liquid by heat given up by condensation of aqueous high boiling liquid solutions, and concentration of the condensed liquid progressing downwardly through the apparatus, and



heating means being provided in the lower portion of said condenser-concentrator to aid in the concentration of the condensed and downwardly flowing liquid.

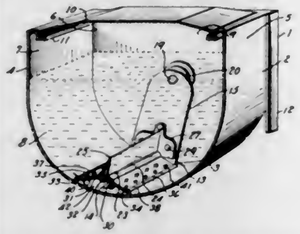
2,164,277

AGITATOR

Lewis A. James, Independence, Kans., assignor to The James Washer Company, Inc., Independence, Kans., a corporation of Kansas

Application April 1, 1938, Serial No. 199,423

7 Claims. (Cl. 68—131)



1. In a washing machine, a tub having a substantially semicylindrical bottom, an agitator including a bar, arms fixed to the ends of the bar and having inwardly extending stops spaced below the bar, flexible agitator wings fixed to the bar and having portions engaging the stops, and means mounting the arms for oscillation about the axis of said semicylindrical bottom with the flexible wings in slightly spaced relation with said bottom.

2,164,278

GRIPPING DEVICE

Edgar E. Kellems, Eugene, Oreg., assignor to Kellems Products, Inc., New York, N. Y., a corporation of New York

Application June 4, 1938, Serial No. 211,900

8 Claims. (Cl. 24—123)

1. A gripping device of the class described, comprising a plurality of interwoven flexible strands forming an open-mesh fabric adapted to embrace the body to be gripped, and said strands being so arranged that the interstices of the fabric lying at opposite sides longitudinally of the intersecting strands are progressively displaced



laterally from a line running longitudinally of the fabric.

2,164,279

TREATMENT OF SUBSTANCES CONTAINING TANTALUM AND NIOBIUM

Joseph Pierre Leemans, Hoboken, near Antwerp, Belgium, assignor to Société Générale Metallurgique de Hoboken, Hoboken, near Antwerp, Belgium

No Drawing. Application January 27, 1938, Serial No. 187,248. In Great Britain April 9, 1937

2 Claims. (Cl. 75—133)

1. A process for the production of a niobium alloy, which consists in melting a ferro-alloy of tantalum and niobium, adding such amount of slags containing oxide compounds of niobium that the tantalum of the ferro-alloy shall displace substantially the entire amount of niobium contained by the slag, allowing the melting of the whole mass and reaction to proceed so as to obtain a niobium alloy and a slag containing the tantalum, and separating the niobium alloy from the slag, as set forth.

2,164,280

PHOTOGRAPHIC DEVELOPER

Edmund W. Lowe, Chicago, Ill., assignor to The Edwal Laboratories, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 20, 1937, Serial No. 164,703

12 Claims. (Cl. 95—88)

1. A fine grain photographic developer comprising a developing agent of a class consisting of paramethylaminophenol, paramethylaminocresols, and their salts, an ammonium salt of a relatively strong acid, and a soluble sulphite, the proportions of ingredients being balanced so that the developer in solution has a pH of 7 to 7.8.

2,164,281

LOWER UNDERGARMENT

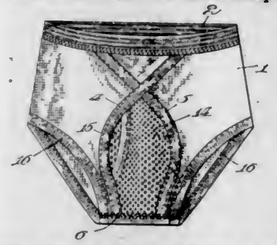
Herman M. McDonald, Evanston, Ill., assignor to Mac Dee Company, a corporation of Illinois

Application June 22, 1938, Serial No. 215,085

5 Claims. (Cl. 128—159)

1. A garment having a crotch and a waist, strap-like reenforcing elements extending from the crotch to the waist and secured to the front

wall of the garment along their edges, said reenforcing elements forming an inverted U beginning at the crotch and reaching only part way to the waist; that portion of the front wall of the garment within the U being an inset composed of two similar pieces each shaped to fill all



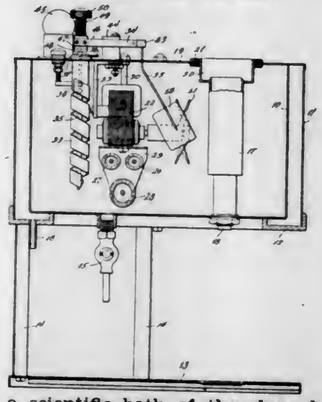
of the space within the U except a long narrow area at one side and toward the top, said pieces overlying each other with corresponding faces engaged; whereby there is left an opening between each of the legs of the U and one of the inset pieces and each of said pieces serves as a fly for the opening left by the other.

2,164,282
THERMOSTATIC SWITCH FOR SCIENTIFIC BATHS

Nathan Morris, Silver Spring, Md., assignor to American Instrument Company, Silver Spring, Md., a corporation of Delaware

Application July 22, 1937, Serial No. 155,118

6 Claims. (Cl. 219—20)



4. In a scientific bath of the class described wherein the bath is heated electrically and the temperature is controlled by a thermostatically operated switch, means supporting one contact of the switch for vibratory movement relative to the other contact; a motor-driven agitator suspended in the bath; a vane in the bath in the vicinity of the agitator having an arm connected to said vibratory contact to impart vibratory movement thereto due to turbulence of the liquid to prevent the contacts of the switch from fusing together as the switch opens and closes.

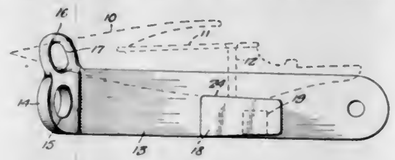
2,164,283
LEDGER PLATE ANVIL

Edward L. Mulvaney, Butte, Mont., assignor of one-eighth to John E. Phemister, one-eighth to Mamie C. Phemister, and one-half to George D. Curtis, all of Butte, Mont.

Application May 4, 1937, Serial No. 140,743

1 Claim. (Cl. 78—6)

A hand anvil for replacing damaged ledger plates including a base plate having one end directed at an angle to the plate, an eye formed in said end offset laterally from the longitudinal center line of the base plate, said eye being adapted to receive the point of a guard finger when a rivet is to be driven out, an eye formed in said end substantially at the longitudinal center line of the base plate adapted to receive the point of a guard finger when a rivet is to be headed up, a bracket arm projecting from the base plate on the same side thereof as the offset end and disposed laterally of the longitudinal center line of the base plate, and a flat plate-like anvil on the outer end of the bracket arm dis-



posed substantially parallel with the base plate, there being a space between the anvil and the base plate, the edge of the anvil and the base plate being adapted to support a guard finger when the point of the guard finger is inserted in the first named eye for the purpose of driving out a rivet from the guard finger, the space between the anvil and the base plate permitting the dislodged rivet to drop from the guard finger, the face of the anvil being adapted to support a guard finger when the point of the guard finger is inserted in the second named eye for the purpose of heading up a rivet against the face of the anvil.

2,164,284
PROCESS OF PREPARING NITROGEN-CONTAINING COMPOUNDS

Anderson W. Ralston and William M. Selby, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application February 26, 1936, Serial No. 65,923

5 Claims. (Cl. 260—412)

1. The process of preparing nitrile-containing mixtures of nitrogenous organic compounds which comprises preparing a mixture of waste protein-containing materials in the nature of digester tankage, waste material from the meat packing industry, scrap leather, fish meal, skins and hair and fatty materials of the class consisting of fats and fatty acids of the type found in naturally occurring fats and fatty oils as glycerides, heating the mixture in the substantial absence of air to a temperature within the range of about 250° C. to about 350° C. to cause the protein material and fatty material to react and condensing a water immiscible oily condensate distilled from the mixture during the heating.

2,164,285
TUMBLER-HANDLING APPARATUS

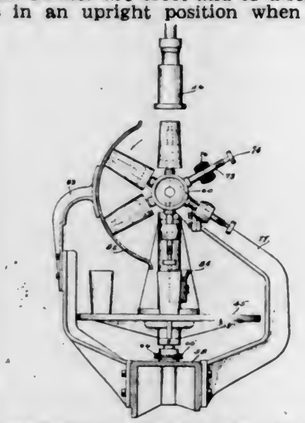
Harold R. Schutz, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio

Application June 2, 1937, Serial No. 146,072

8 Claims. (Cl. 198—25)

1. In a take-off device for transferring cup-shaped glass articles from a glassware forming machine, a rotary carrier including a plurality of radial arms mounted on the carrier for revolution about a horizontal axis, said arms being adapted to receive thereover the inverted articles

when the former are erect and to discharge the articles in an upright position when inverted,



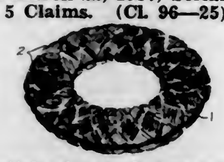
and a mechanical conveyor for removing the discharged articles.

2,164,286
METALLIC WOOL ABRADING RING

Miles A. Stybr, Springfield, Ohio, assignor to International Steel Wool Corporation, Springfield, Ohio, a corporation of Ohio

Application March 22, 1937, Serial No. 132,225

5 Claims. (Cl. 96—25)



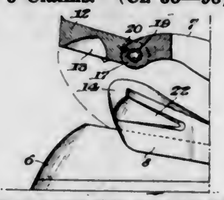
1. As an article of manufacture an abrasive pad of metallic wool comprising a plurality of rovings of metallic wool fibers plaited into a strip, the ends of which are spliced together to form an endless band, wherein the rovings are disposed diagonally to the general direction of the band, and of which only short relatively spaced portions are exposed to engagement with the work, and are overlaid at relatively short intervals by other rovings which thereby mutually resist displacement.

2,164,287
ELECTRICAL FLATIRON

Charles E. Beyar, Brooklyn, N. Y.

Application February 7, 1938, Serial No. 189,267

5 Claims. (Cl. 38—98)



4. A flat-iron comprising a weighted body portion, a supplemental weight portion, a handle; said handle having a pivoted part formed with a recess adapted to engage with an end of the supplemental portion, and a tensioning spring for said pivoted part urging same into engagement with said end, and means to hold the other end of said supplemental portion whereby to hold the weight in operative position, substantially as set forth.

2,164,288
ELECTRIC INCANDESCENT LAMP

Paul O. Cartun, Cleveland Heights, and Will D. Pew, East Cleveland, Ohio, assignors to General Electric Company, a corporation of New York

Application June 25, 1938, Serial No. 215,802

3 Claims. (Cl. 176—39)



1. In an electric incandescent lamp, the combination of a stem having a seal portion and an insulating rod extending therefrom substantially axially of said lamp, leading-in wires having ends spaced transversely from the end of said rod and from each other, a front pair and a rear pair of filament support wires extending from the end of said rod and provided with filament engaging portions at their ends, and a filament supported solely upon the said ends of said leading-in wires and on the said portions of said support wires, the said filament engaging portions of said rear pair of support wires being so located with respect to the filament engaging portions of said front pair of support wires that adjacent sections of said filament at each of said rear support wires make an angle with each other of at least approximately ninety degrees.

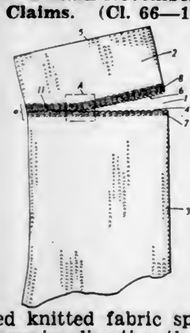
2,164,289
KNITTED FABRIC

Henry Harold Holmes, Leicester, England, assignor to Wildt and Company Limited, Leicester, England, a British company

Application November 2, 1937, Serial No. 172,482

In Great Britain November 3, 1936

2 Claims. (Cl. 66—172)



1. A finished knitted fabric split between its ends in a coursewise direction thereby providing partially separated sections and comprising initially co-extensive adjacent welts, and at least one course of knitting for joining said welts, some of the loops in a portion of said course corresponding in extent to that of the split to be made subsequently being cast off while the remainder of the loops in said portion join the fabric sections until partial separation is to be effected.

2,164,290
LOCK

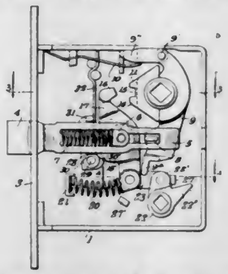
Norman B. Hurd, Newington, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut

Application May 13, 1938, Serial No. 207,680

8 Claims. (Cl. 292—165)

1. In a door lock having independent means for retracting the latch-bolt from the outside

and inside of the door, a case, a spring latch-bolt, means operable from the indoor side for dogging the outside latch retracting means, and means



coacting the the latch-bolt for holding it retracted when repressed by means other than the last-mentioned retracting means while the latter is dogged.

2,164,291

HYDROGENATED OIL PRODUCT

Leslie G. Jenness, Englewood, N. J., assignor to Intermetal Corporation, Newark, N. J., a corporation of Delaware

No Drawing. Original application February 4, 1938, Serial No. 188,785. Divided and this application October 5, 1938, Serial No. 233,475

7 Claims. (Cl. 260—409)

6. A hydrogenated liquid oil prepared from a glyceride oil having a substantial quantity of fatty acid radicals containing more than two double bonds, said liquid oil being free of fatty acid radicals containing more than two double bonds and having a Wesson rancidity time of at least 10 hours at an iodine number not below 110 and being characterized by having substantial resistance to reversion to the flavor of the original oil.

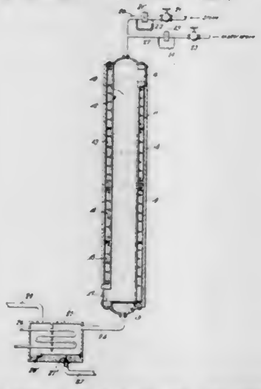
2,164,292

PROCESS OF PRODUCING HYDROGEN

Leslie G. Jenness, Englewood, N. J., assignor to Intermetal Corporation, Newark, N. J., a corporation of Delaware

Application January 14, 1939, Serial No. 251,041

6 Claims. (Cl. 23—212)



1. The process of producing hydrogen which comprises bringing a mixture of gases containing a hydrocarbon and excess steam into contact with a catalyst for the reaction between steam and said hydrocarbon and between steam and carbon monoxide to produce hydrogen, contacting said mixture with said catalyst for sufficient time and at sufficient temperature to produce hydrogen having a relatively low hydrocarbon content and a comparatively high carbon monoxide content, lowering the temperature of the resulting gases, further contacting the same with said catalyst for a time sufficient to materially lower the carbon monoxide content thereof and removing the resulting gases from contact with said catalyst before the hydrocarbon content has been substantially increased, said catalyst being one which is prepared by forming an aggregate of particles having an oxide of a metal which is catalytically active for said reactions chemically fixed to another metal oxide which is capable of being leached from the oxide of the catalytically active metal without shattering said particles, said metal oxides being chemically fixed to each other in substantially that proportion which will give the final catalyst the property of promoting said reaction with a greater ratio of reaction between carbon monoxide and steam to the reaction velocity of any other reaction at the temperature of said further contacting than will result when the catalyst is prepared with any other proportion, leaching said other metal oxide from said aggregate and reducing the catalytically active metal oxide.

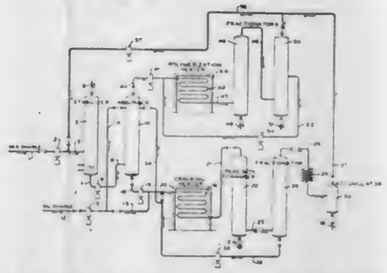
2,164,293

CONVERSION OF HYDROCARBON OILS AND GASES

Wayne E. Kuhn, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 13, 1937, Serial No. 130,620

2 Claims. (Cl. 196—9)



1. A process for the conversion of hydrocarbon oils and gases into gasoline, which comprises subjecting a fresh charging stock consisting essentially of normally gaseous hydrocarbons of the class of natural and refinery gases to stabilization to separate therefrom fixed gases lighter than C_3 hydrocarbons, scrubbing the remaining gases with a hydrocarbon oil cracking stock to absorb a portion of the higher boiling saturated and unsaturated constituents, subjecting unabsorbed gases to a separate polymerization operation in the absence of combustion gases at temperatures and pressures sufficient to form a maximum amount of aliphatic polymers boiling within the gasoline boiling point range, separating said polymers from unpolymerized gases, subjecting the mixture of cracking stock and absorbed gases to a separate conversion operation at temperatures sufficient to effect conversion thereof into gasoline, separating a gasoline fraction and a residual gaseous fraction from the cracked products, and recycling said residual gaseous fraction from the cracking operation and said unpolymerized gases from the polymerization operation to said stabilization operation.

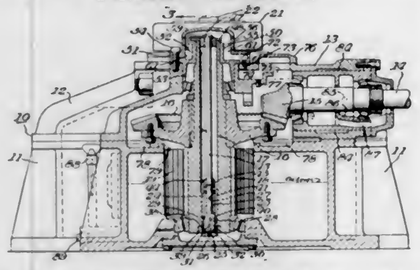
2,164,294

LUBRICATING SYSTEM

Joseph R. Mahan, Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 13, 1938, Serial No. 218,927

3 Claims. (Cl. 184—6)



1. In a lubricating device the combination with a distributor having a plurality of pockets annularly arranged for receiving and conducting a lubricant to various parts of a machine, of a rotary disk concentrically mounted relative to said distributor and upon the upper surface of which the lubricant is deposited, and means for rotating the disk to uniformly discharge the lubricant to the distributor.

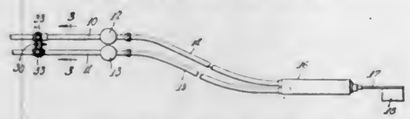
2,164,295

PREVENTION OF EXPLOSIONS AND BACK-FIRE IN TORCHES

Chester Mott, Evanston, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

Application July 1, 1938, Serial No. 216,881

4 Claims. (Cl. 158—27.4)



1. The combination with a fuel gas burner of conduits for the delivery of fuel gas and combustion supporting gas, a mixing chamber receiving gas from both conduits and delivering the mixture to the burner, and shut off valve mechanism in said conduits, the combustion supporting gas conduit having a port to the atmosphere at a point adjacent to and on the delivery side of the point of shut off, and means operable to simultaneously stop the flow of gases through both conduits and open said port.

2,164,296

FISHLINE AND METHOD OF MAKING SAME

Robert C. Wilcox, near Flint, Mich.

Application October 26, 1937, Serial No. 171,032

7 Claims. (Cl. 91—68)



1. A fishline especially adapted for fly-casting consisting of a hollow, highly flexible tube, the walls of which are impervious to water, the outer surface of the tube being smooth and slippery so that the line may slip freely through the guides of the fishing rod, said line being of low specific gravity so that it tends to float on the water.

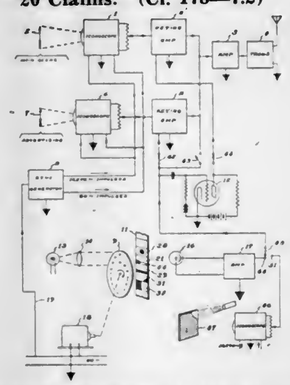
2,164,297

TELEVISION SYSTEM

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 31, 1935, Serial No. 56,860

20 Claims. (Cl. 178—7.2)



1. A picture transmitting system comprising means for producing electrical signals representative of a scene or view, said means including means for scanning said view horizontally at a comparatively high frequency and vertically at a comparatively low frequency, a second means for producing electrical signals representative of a second scene or view, means for supplying said signals representative of both views to a common signal channel, and means for making effective the transfer of the signals representative of one of said views to said common channel and for simultaneously making ineffective the transfer to said channel of the signals representative of the other view, said means including a source of additional signals which occur at the rate of said horizontal scanning and which make said transfers effective and ineffective at said rate.

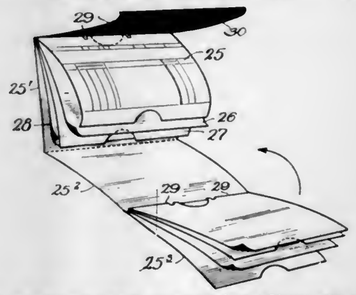
2,164,298

SNAP-OUT PACK

Edward Z. Lewis, Evanston, Ill., assignor to General Manifold & Printing Co., a corporation of Pennsylvania

Application October 11, 1937, Serial No. 168,448

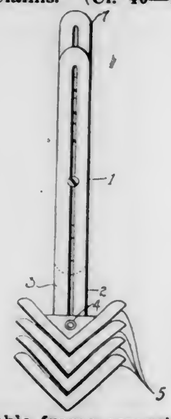
15 Claims. (Cl. 282—24)



2. A snap-out pack comprising alternate record sheets and carbon sheets, a slot in one edge of

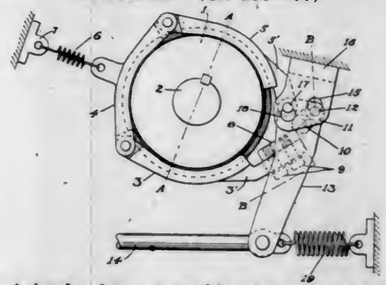
said pack intersecting all of said sheets, an adhesive in said slot only to detachably hold said carbon sheets to said record sheets, and providing the sole means for holding said record sheets to each other, said carbon sheets being cut at one side to permit the record sheets only to be grasped and said record sheets being cut on the opposite side to permit the carbon sheets only to be grasped, thus separating the two groups of sheets, when pulled in opposite directions.

2,164,299
ADJUSTABLE PICTURE FRAME
Maxwell Mandell and Benjamin Schwartz, New York, N. Y.
Application September 10, 1936, Serial No. 100,063
4 Claims. (Cl. 40—155)



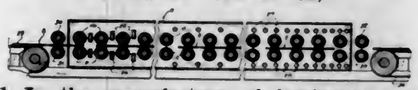
1. An adjustable frame comprising a plurality of pairs of extensible arms, one arm of each pair having a closed-ended longitudinal slot extending substantially its entire length, and having its outer longitudinal side edges provided with a reduced tongue, the other arm of each pair being bifurcated substantially throughout its length, the interior longitudinal edges of the resulting prongs having a grooved channel to slidably accommodate the reduced tongues if the first arm, each of said arms having at its free extremity, pivoted means for holding a section of an object to be framed, and a common pivotal member passing through all of said slots and bifurcations, around which member said pairs of arms may be moved rotationally.

2,164,300
BRAKE
Ed S. Smith, Jr., St. Albans, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, Minneapolis, Minn., a corporation of the United States
Application August 21, 1937, Serial No. 160,233
19 Claims. (Cl. 188—77)



1. A brake for a movable element, said brake comprising a plurality of interconnected shoes, a brake controling member, a stationary member having a pair of slots therein at one side of said element and spaced different distances from said element, means extending into one of said slots and connecting one of said shoes with said brake controlling member, and means extending into the other of said slots and connecting another of said shoes with said brake controlling member.

2,164,301
LAMINATED SAFETY GLASS
George B. Watkins, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application May 9, 1936, Serial No. 78,739
6 Claims. (Cl. 49—81)

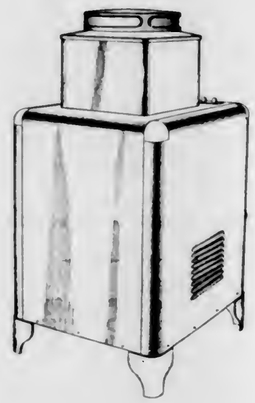


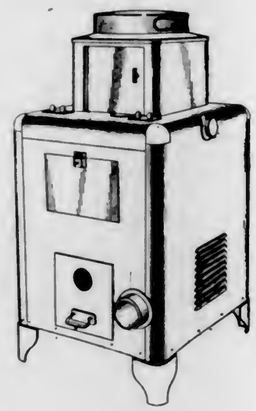
1. In the manufacture of laminated safety glass, the process comprising the steps of interposing a layer of synthetic resin plastic between two sheets of glass to form a sandwich, subjecting the sandwich initially to a relatively high pressure and a relatively low temperature, and in then simultaneously decreasing the pressure upon the said sandwich while increasing the temperature thereof.

DESIGNS

JUNE 27, 1939

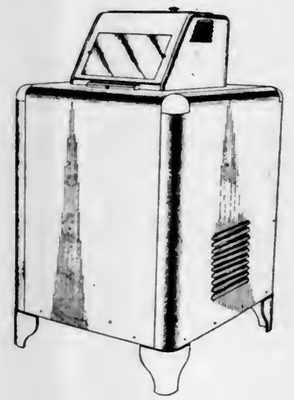
115,378
DESIGN FOR A COFFEE ROASTER OR THE LIKE
Donald W. Adams and Richard L. Schuhmann, Louisville, Ky.
Application April 24, 1939, Serial No. 84,518
Term of patent 14 years

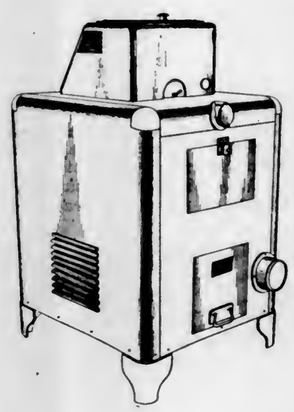




The ornamental design for a coffee roaster or the like, substantially as shown and described.

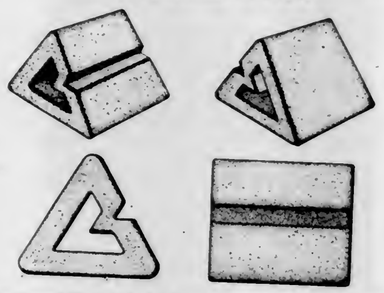
115,379
DESIGN FOR A COFFEE ROASTER OR THE LIKE
Donald W. Adams and Richard L. Schuhmann, Louisville, Ky.
Application April 24, 1939, Serial No. 84,519
Term of patent 14 years





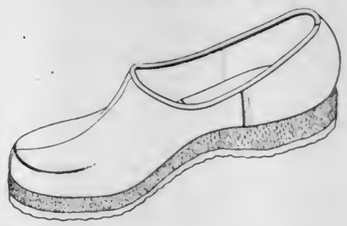
The ornamental design for a coffee roaster or the like, substantially as shown and described.

115,380
DESIGN FOR AN EDIBLE BISCUIT
George I. Andersen, San Francisco, Calif., assignor to Andersen-Smith Milling Co., San Francisco, Calif., a corporation of California
Application April 21, 1939, Serial No. 84,458
Term of patent 14 years



The ornamental design for an edible biscuit, as shown.

115,381
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Hyman Auerbach, Brookline, Mass., assignor to Continental Shoe Corporation, Boston, Mass., a corporation of Massachusetts
Application May 18, 1939, Serial No. 85,075
Term of patent 14 years



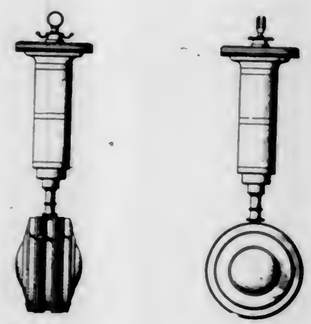
The ornamental design for a shoe or similar article, substantially as shown and described.

115,382
DESIGN FOR AN ELECTRIC CREASING IRON
Gustave F. Bahr, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application May 16, 1939, Serial No. 85,020
Term of patent 14 years



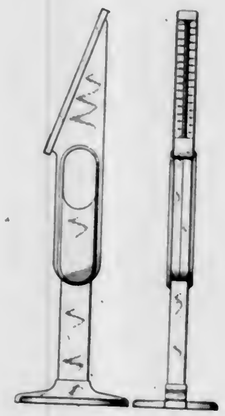
The ornamental design for an electric creasing iron, as shown.

115,383
DESIGN FOR A ROLLING ASHTRAY
Edgar H. Barbe, Plainfield, N. J.
Application January 5, 1939, Serial No. 82,165
Term of patent 3½ years



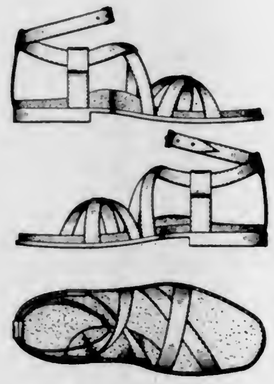
The ornamental design for a rolling ashtray, as shown.

115,384
DESIGN FOR A PEDESTAL SPHYGMOMANOMETER
William A. Baum, Forest Hills, N. Y., assignor to W. A. Baum Co., Inc., New York, N. Y., a corporation of New York
Application April 12, 1939, Serial No. 84,240
Term of patent 14 years



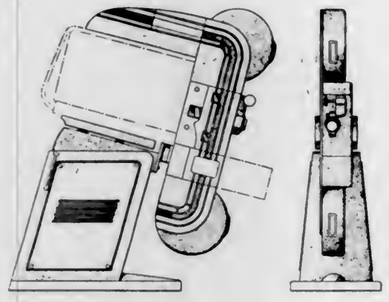
The ornamental design for a pedestal sphygmomanometer, substantially as shown.

115,385
DESIGN FOR A SANDAL
Emil Bonyhady, New York, N. Y.
Application April 27, 1939, Serial No. 84,641
Term of patent 7 years



The ornamental design for a chair, as shown. and described.

115,386
DESIGN FOR A COMBINATION MOTION PICTURE PROJECTOR AND PEDESTAL THEREFOR
Karl Brenkert, Detroit, Mich.
Application May 8, 1939, Serial No. 84,865
Term of patent 14 years



The ornamental design for a combination motion picture projector and pedestal therefor, as shown herein.

115,387
DESIGN FOR A COMBINATION CLEARANCE AND SIDE MARKER LAMP FOR VEHICLES
George F. Burgess, Cleveland, Ohio
Application May 18, 1939, Serial No. 85,071
Term of patent 7 years



The ornamental design for a combination clearance and side marker lamp for vehicles, as shown

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115,388
DESIGN FOR A BOTTLE
Albert C. Burgund, Tuckahoe, N. Y., assignor to Carr-Lowrey Glass Co., Baltimore, Md.
Application April 20, 1939, Serial No. 84,443
Term of patent 14 years



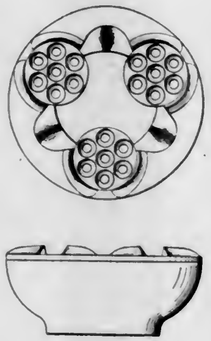
The ornamental design for a bottle, as shown.

115,389
DESIGN FOR A SOUVENIR KEY
William R. Burke, Berkeley, Calif., assignor to California Retail Jewelers Association, Inc., San Francisco, Calif., a corporation of California
Application January 24, 1939, Serial No. 82,556
Term of patent 3½ years



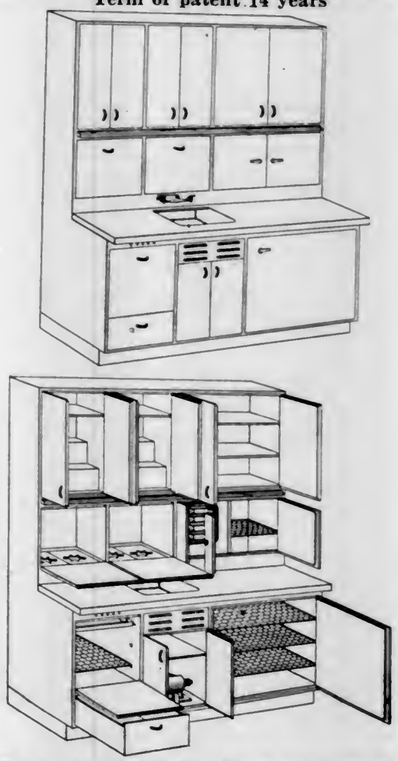
The ornamental design for a souvenir key, as shown and described.

115,390
DESIGN FOR AN ASHTRAY
Frank F. Colucci, Philadelphia, Pa.
Application March 16, 1939, Serial No. 83,612
Term of patent 7 years



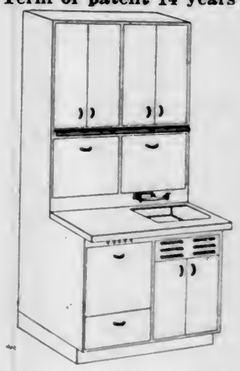
The ornamental design for an ashtray, as shown.

115,391
DESIGN FOR A COMBINED STOVE, REFRIGERATOR, SINK, AND CABINET
Guyon L. C. Earle, Forest Hills, N. Y.
Application November 26, 1938, Serial No. 81,382
Term of patent 14 years

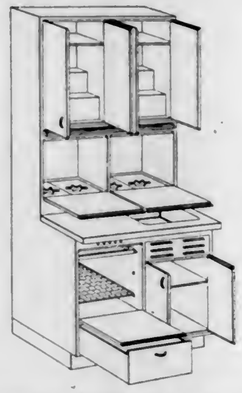


The ornamental design for a combined stove, refrigerator, sink, and cabinet, substantially as shown and described.

115,392
DESIGN FOR A COMBINED STOVE, SINK, AND CABINET
Guyon L. C. Earle, Forest Hills, N. Y.
Application November 26, 1938, Serial No. 81,383
Term of patent 14 years

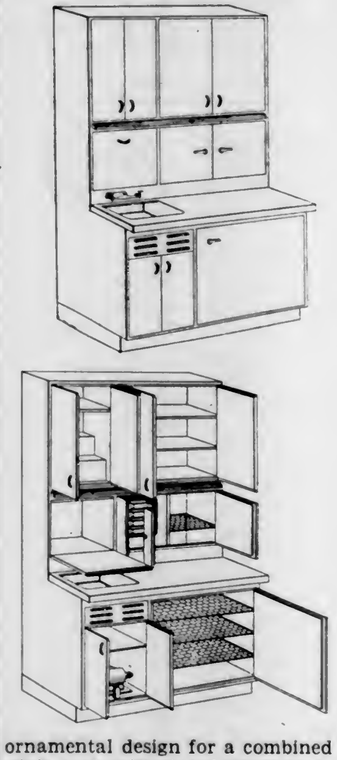


115,392—Continued



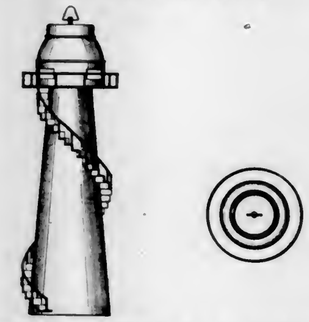
The ornamental design for a combined stove, sink, and cabinet, substantially as shown and described.

115,393
DESIGN FOR A COMBINED REFRIGERATOR, SINK, AND CABINET
Guyon L. C. Earle, Forest Hills, N. Y.
Application November 26, 1938, Serial No. 81,384
Term of patent 14 years



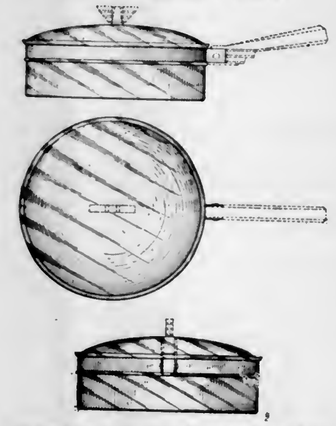
The ornamental design for a combined refrigerator, sink, and cabinet, substantialy as shown and described.

115,394
DESIGN FOR A SMOKING STAND
John M. Eggers, Sioux City, Iowa
Application November 16, 1938, Serial No. 81,136
Term of patent 7 years



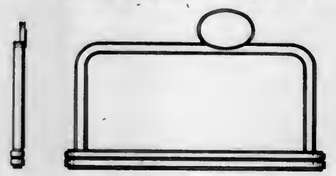
The ornamental design for a smoking stand, as shown.

115,395
DESIGN FOR A GLASS FRYING PAN
John G. Francis, Chicago, Ill., assignor to Chamberlain, Inc., Chicago, Ill., a corporation of Illinois
Application November 12, 1938, Serial No. 81,035
Term of patent 7 years



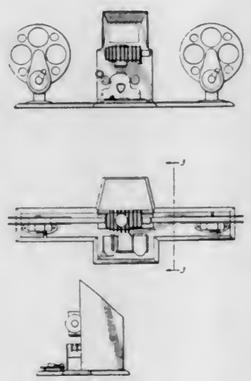
The ornamental design for a glass frying pan, as shown.

115,396
DESIGN FOR A DISPLAY SIGN
Robert M. Gray, Pelham Manor, N. Y.
Application September 16, 1938, Serial No. 79,948
Term of patent 7 years



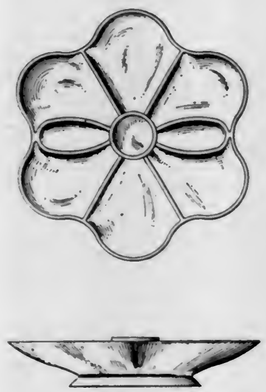
The ornamental design for a display sign, as shown.

115,397
DESIGN FOR A FILM VIEWING DEVICE
William H. Harrison, Los Angeles, Calif., assignor to Harrison-Craig Mfg. Co., Los Angeles, Calif., a corporation of California
Application October 31, 1938, Serial No. 80,787
Term of patent 14 years



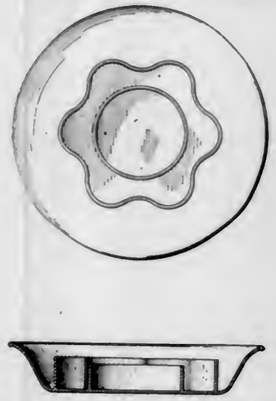
The ornamental design for a film viewing device, as shown.

115,398
DESIGN FOR AN OYSTER DISH OR SIMILAR ARTICLE
Irving J. Heath, New York, N. Y.
Application January 27, 1939, Serial No. 82,629
Term of patent 14 years



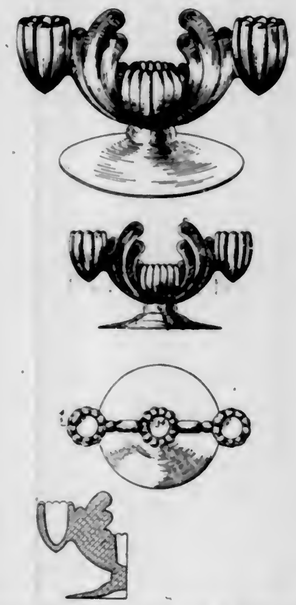
The ornamental design for an oyster dish or similar article, as shown.

115,399
DESIGN FOR A SALAD PLATE
Irving J. Heath, New York, N. Y.
Application January 27, 1939, Serial No. 82,630
Term of patent 14 years



The ornamental design for a salad plate, as shown.

115,400
DESIGN FOR A COMBINED GLASS CANDLESTICK AND VASE HOLDER OR ARTICLE OF SIMILAR NATURE
Edgar Wilson Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application March 20, 1939, Serial No. 83,701
Term of patent 14 years



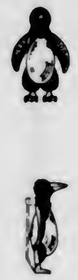
The ornamental design for a combined glass candlestick and vase holder or article of similar nature, substantially as shown.

115,401
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application February 11, 1939, Serial No. 82,933
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

115,402
DESIGN FOR A CLIP PIN OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application March 18, 1939, Serial No. 83,658
Term of patent 3½ years



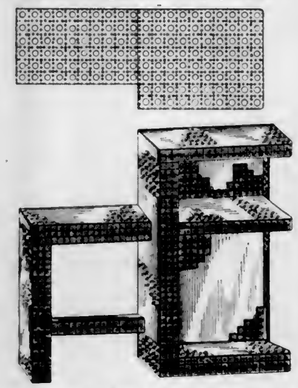
The ornamental design for a clip pin or similar article, substantially as shown.

115,403
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application April 8, 1939, Serial No. 84,147
Term of patent 3½ years



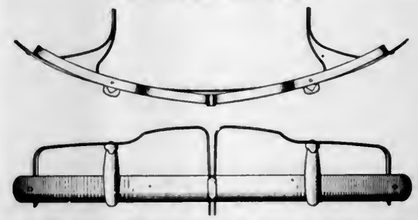
The ornamental design for a brooch or similar article, substantially as shown.

115,404
DESIGN FOR A DISPLAY STAND
Ota O. Hobson, Chariton, Iowa
Application July 18, 1938, Serial No. 78,569
Term of patent 3½ years



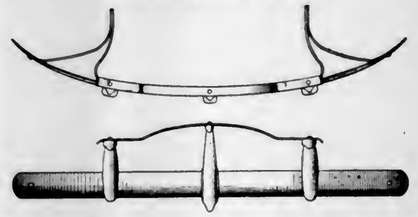
The ornamental design for a display stand, substantially as shown and described.

115,405
DESIGN FOR A COMBINED BUMPER AND A GUARD OR SIMILAR ARTICLE
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 1, 1939, Serial No. 84,708
Term of patent 7 years



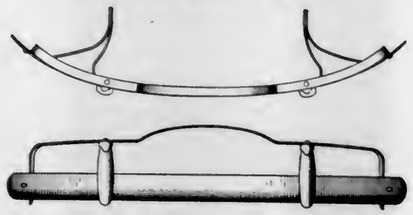
The ornamental design for a combined bumper and a guard or similar article, as shown.

115,406
DESIGN FOR A COMBINED BUMPER AND A GUARD OR SIMILAR ARTICLE
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 1, 1939, Serial No. 84,709
Term of patent 7 years



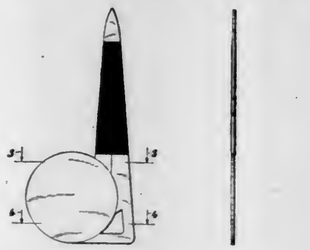
The ornamental design for a combined bumper and a guard or similar article, as shown.

115,407
DESIGN FOR A COMBINED BUMPER AND A GUARD OR SIMILAR ARTICLE
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 1, 1939, Serial No. 84,710
Term of patent 7 years



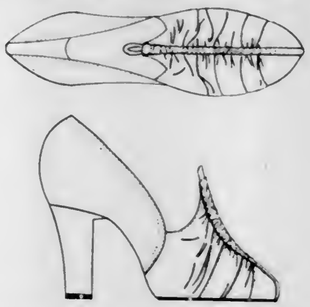
The ornamental design for a combined bumper and a guard or similar article, as shown.

115,408
DESIGN FOR A NAIL FILE
Arnold E. Johnson, New York, N. Y.
Application May 8, 1939, Serial No. 84,876
Term of patent 3½ years



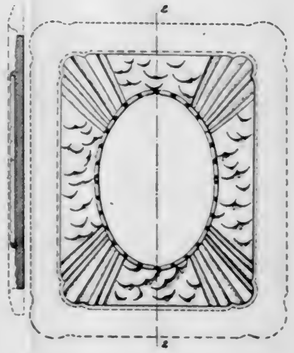
The ornamental design for a nail file, substantially as shown and described.

115,409
DESIGN FOR A SHOE
Curt Kliche, New York, N. Y.
Application May 5, 1939, Serial No. 84,813
Term of patent 3½ years



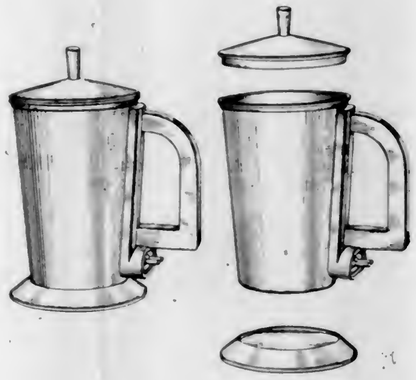
The ornamental design for a shoe, as shown.

115,410
DESIGN FOR A PLAQUE
Leonard C. Kotz and Arthur F. Kotz, Syracuse, N. Y.
Application October 21, 1938, Serial No. 80,584
Term of patent 7 years



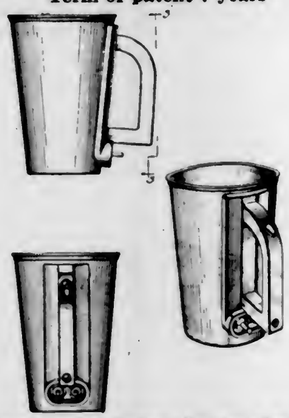
The ornamental design for a plaque, substantially as shown and described.

115,411
DESIGN FOR AN ELECTRICAL SELF-HEATING CUP
Herman E. Lacy, Chicago, Ill., assignor to Helmco, Inc., a corporation of Illinois
Application October 31, 1938, Serial No. 80,777
Term of patent 7 years



The ornamental design for an electrical self-heating cup, as shown and described.

115,412
DESIGN FOR AN ELECTRICAL SELF-HEATING CUP
Herman E. Lacy, Chicago, Ill., assignor to Helmco, Inc., a corporation of Illinois
Application October 31, 1938, Serial No. 80,778
Term of patent 7 years

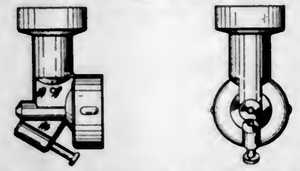


The ornamental design for an electrical self-heating cup, as shown and described.

115,413
DESIGN FOR A RADIO OR SIMILAR ARTICLE
Kate Lerman, Chicago, Ill.
Application March 15, 1939, Serial No. 83,592
Term of patent 7 years

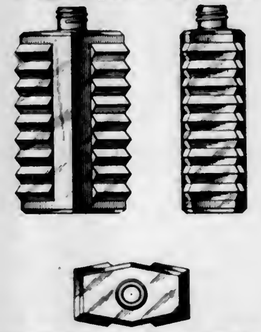
The ornamental design for a radio or similar article, as shown.

115,414
DESIGN FOR A COMBINED COUPLING AND SPRAY NOZZLE
Frank F. Lindstaedt, San Francisco, Calif.
Application September 8, 1938, Serial No. 79,789
Term of patent 7 years



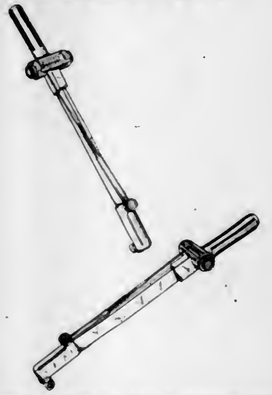
The ornamental design for a combined coupling and spray nozzle, substantially as shown.

115,415
DESIGN FOR A BOTTLE
Philip G. Lloyd, Jackson Heights, N. Y., assignor to Carr-Lowrey Glass Co., Baltimore, Md.
Application April 24, 1939, Serial No. 84,514
Term of patent 14 years



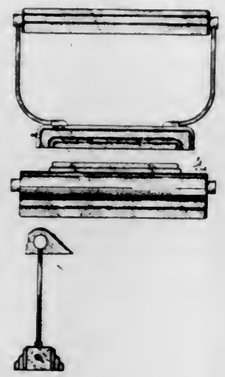
The ornamental design for a bottle, as shown.

115,416
DESIGN FOR A TORQUE INDICATING TOOL
Siegmund Mandl, Milwaukee County, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 10, 1939, Serial No. 84,902
Term of patent 7 years



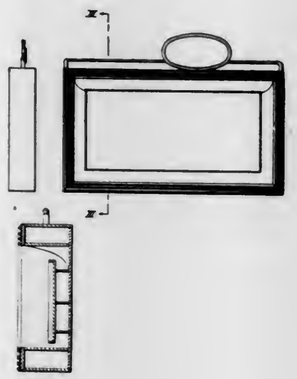
The ornamental design for a torque indicating tool, substantially as shown.

115,417
DESIGN FOR A DESK LAMP
Clyde D. McCann, Des Moines, Iowa
Application January 18, 1939, Serial No. 82,524
Term of patent 3½ years



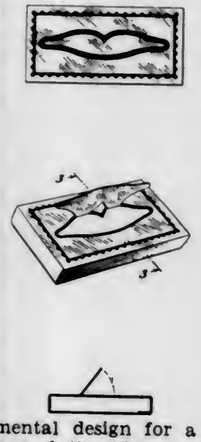
The ornamental design for a desk lamp, substantially as shown.

115,418
DESIGN FOR A DISPLAY SIGN
Dixon M. Meuller, Port Washington, N. Y., assignor, by mesne assignments, to Standard Oil Development Company, Linden, N. J., a corporation of Delaware
Application September 16, 1938, Serial No. 79,949
Term of patent 7 years



The ornamental design for a display sign as shown.

115,419
DESIGN FOR A RECEPTACLE FOR PAPER TISSUES AND THE LIKE
Raymond Munson and Irving M. Lax, New York, and Milton Silverstein, Brooklyn, N. Y., assignors to Harry Rothman, Brooklyn, N. Y.
Substitute for abandoned application Serial No. 70,626, July 24, 1937. This application April 22, 1939, Serial No. 84,490. Term of patent 14 years



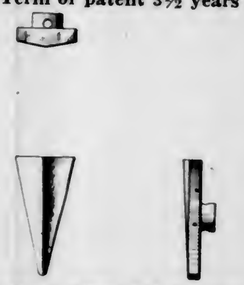
The ornamental design for a receptacle for paper tissues and the like, as shown and described.

115,420
DESIGN FOR A POURING TOP FOR CONTAINERS OR SIMILAR ARTICLES
William G. Pancoast, Winnetka, Ill.
Application February 19, 1938, Serial No. 75,264
Term of patent 3½ years



The ornamental design for a pouring top for containers or similar articles, as shown.

115,421
DESIGN FOR A BUTTON
Morris Philip, New York, N. Y.
Application May 22, 1939, Serial No. 85,131
Term of patent 3½ years



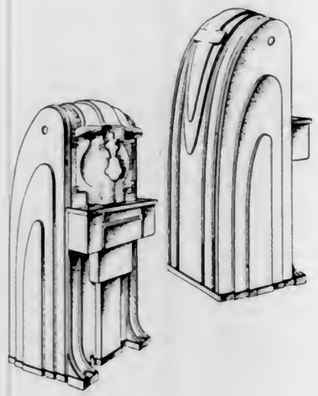
The ornamental design for a button, substantially as shown and described.

115,422
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 21, 1939, Serial No. 83,134
Term of patent 3½ years



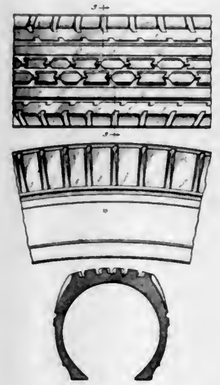
The ornamental design for an earring or similar article, substantially as shown.

115,423
DESIGN FOR A CASING FOR A STITCHING MACHINE
Frederick A. Prahl, Jr., Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 4, 1939, Serial No. 84,803
Term of patent 14 years



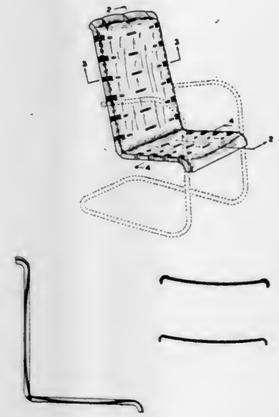
The ornamental design for a casing for a stitching machine, substantially as shown and described.

115,424
DESIGN FOR A TIRE
Bert R. Prall, Winnetka, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application February 9, 1938, Serial No. 74,992
Term of patent 7 years



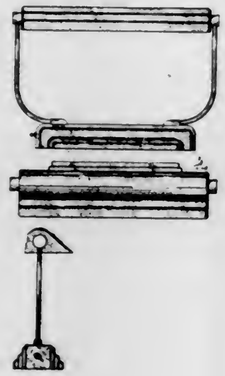
The ornamental design for a tire, substantially as shown.

115,425
DESIGN FOR A CHAIR
Jackson D. Rogers, Bay Village, Ohio
Application November 12, 1938, Serial No. 81,061
Term of patent 7 years



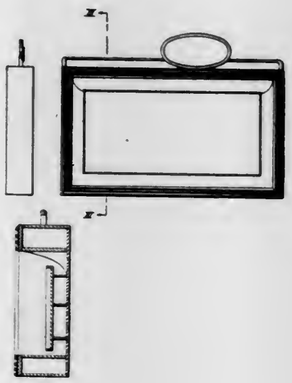
The ornamental design for a chair, as shown.

115,417
DESIGN FOR A DESK LAMP
Clyde D. McCann, Des Moines, Iowa
Application January 18, 1939, Serial No. 82,524
Term of patent 3½ years



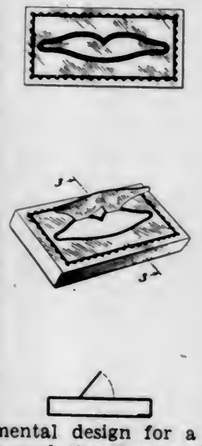
The ornamental design for a desk lamp, substantially as shown.

115,418
DESIGN FOR A DISPLAY SIGN
Dixon M. Meuller, Port Washington, N. Y., assignor, by mesne assignments, to Standard Oil Development Company, Linden, N. J., a corporation of Delaware
Application September 16, 1938, Serial No. 79,949
Term of patent 7 years



The ornamental design for a display sign as shown.

115,419
DESIGN FOR A RECEPTACLE FOR PAPER TISSUES AND THE LIKE
Raymond Munson and Irving M. Lax, New York, and Milton Silverstein, Brooklyn, N. Y., assignors to Harry Rothman, Brooklyn, N. Y.
Substitute for abandoned application Serial No. 70,626, July 24, 1937. This application April 22, 1939, Serial No. 84,490. Term of patent 14 years



The ornamental design for a receptacle for paper tissues and the like, as shown and described.

115,420
DESIGN FOR A POURING TOP FOR CONTAINERS OR SIMILAR ARTICLES
William G. Pancoast, Winnetka, Ill.
Application February 19, 1938, Serial No. 75,264
Term of patent 3½ years



The ornamental design for a pouring top for containers or similar articles, as shown.

115,421
DESIGN FOR A BUTTON
Morris Philip, New York, N. Y.
Application May 22, 1939, Serial No. 85,131
Term of patent 3½ years



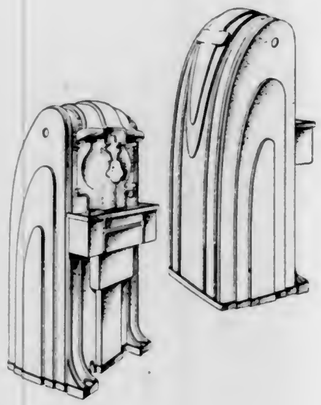
The ornamental design for a button, substantially as shown and described.

115,422
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application February 21, 1939, Serial No. 83,134
Term of patent 3½ years



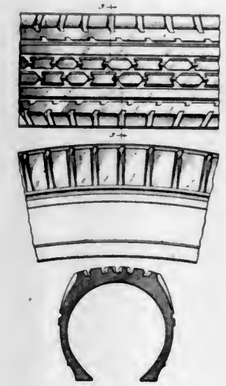
The ornamental design for an earring or similar article, substantially as shown.

115,423
DESIGN FOR A CASING FOR A STITCHING MACHINE
Frederick A. Prahl, Jr., Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 4, 1939, Serial No. 84,803
Term of patent 14 years



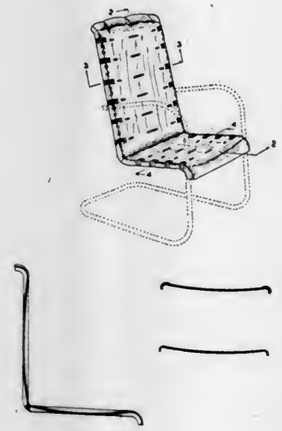
The ornamental design for a casing for a stitching machine, substantially as shown and described.

115,424
DESIGN FOR A TIRE
Bert R. Prall, Winnetka, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application February 9, 1938, Serial No. 74,992
Term of patent 7 years



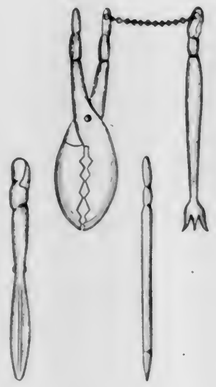
The ornamental design for a tire, substantially as shown.

115,425
DESIGN FOR A CHAIR
Jackson D. Rogers, Bay Village, Ohio
Application November 12, 1938, Serial No. 81,061
Term of patent 7 years



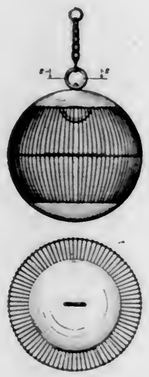
The ornamental design for a chair, as shown.

115,426
DESIGN FOR A COMBINED CRACKER AND PICK
Leopold Roos, New York, N. Y.
Application May 17, 1939, Serial No. 85,040
Term of patent 3½ years



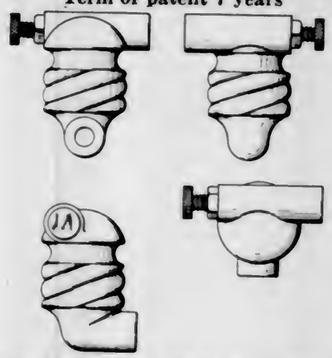
The ornamental design for a combined cracker and pick, substantially as shown.

115,427
DESIGN FOR A BIRD CAGE
Nellie Murphy Schepps, Darien, Conn.
Application April 26, 1939, Serial No. 84,561
Term of patent 14 years



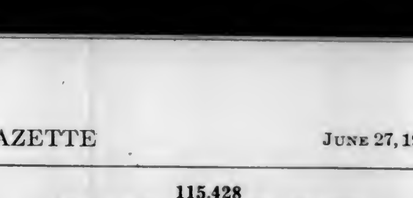
The ornamental design for a bird cage, as shown.

115,428
DESIGN FOR A CARBURETOR
Richard E. Schmidt, Philadelphia, Pa., assignor of forty per cent to Harry W. Cullen, Catonsville, Md., and thirty per cent to Walter E. Smith, Westchester, N. Y.
Application May 1, 1939, Serial No. 84,703
Term of patent 7 years



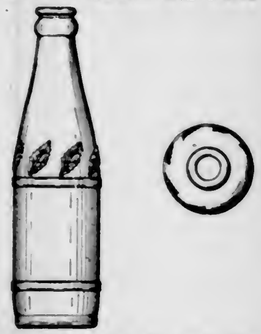
The ornamental design for a carburetor, as shown.

115,429
DESIGN FOR A SOFA OR SIMILAR ARTICLE
Charles Stoll, New York, N. Y.
Application June 1, 1939, Serial No. 85,292
Term of patent 3½ years



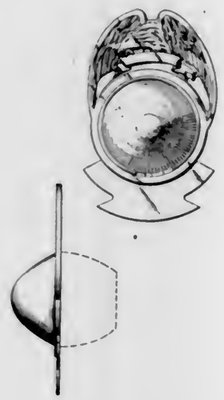
The ornamental design for a sofa or similar article, substantially as shown.

115,430
DESIGN FOR A BOTTLE
Augustus Street, Vicksburg, Miss., assignor to MixOmint Corporation, Vicksburg, Miss., a corporation of Mississippi
Application August 1, 1938, Serial No. 79,016
Term of patent 3½ years



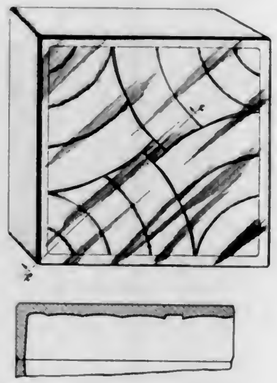
The ornamental design for a bottle, as shown and described.

115,431
DESIGN FOR AN EMBLEM LAMP
Thomas C. Surles, Beverly, Mass.
Substitute for abandoned application Serial No. 70,352, July 10, 1937. This application May 19, 1939, Serial No. 85,090
Term of patent 3½ years



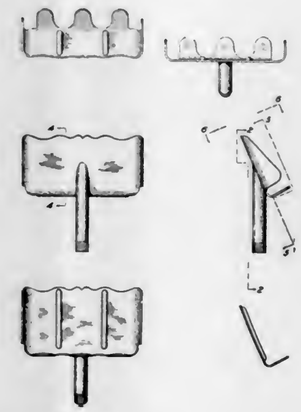
The ornamental design for an emblem lamp, substantially as shown and described.

115,432
DESIGN FOR A HOLLOW GLASS BUILDING BLOCK
John H. Sutter, New York, N. Y., assignor to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application May 5, 1939, Serial No. 84,812
Term of patent 14 years



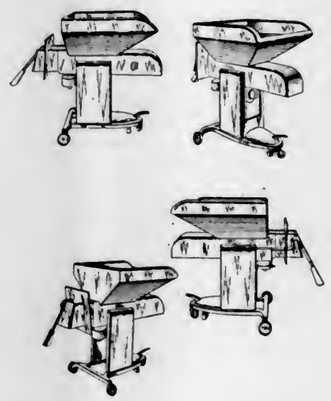
The ornamental design for a hollow glass building block, substantially as shown and described.

115,433
DESIGN FOR A SOAP HOLDER
Luigi Taddeo, Cleveland, Ohio, assignor to Arthur A. Taddeo, Cleveland, Ohio
Application April 7, 1939, Serial No. 84,129
Term of patent 14 years



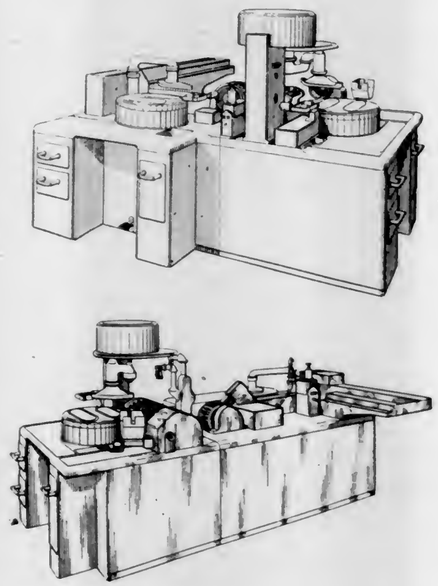
The ornamental design for a soap holder, substantially as shown.

115,434
DESIGN FOR A STOKER
Frederick W. Vodoz, Wilmette, Ill., and Alfred H. Haberstump, Detroit, Mich., assignors to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application October 22, 1938, Serial No. 80,630
Term of patent 14 years



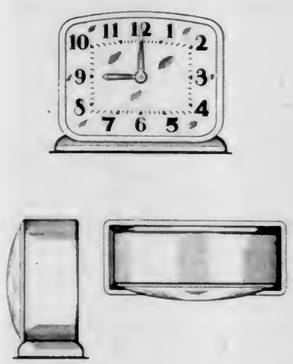
The ornamental design for a stoker, substantially as shown.

115,435
DESIGN FOR A CIGAR MACHINE OR SIMILAR ARTICLE
Henry H. Wheeler, Brooklyn, N. Y., and Herbert Rosengren, Woodcliff Lake, N. J., assignors to International Cigar Machinery Company, a corporation of New Jersey
Application May 5, 1938, Serial No. 77,014
Term of patent 14 years



The ornamental design for a cigar machine or similar article, substantially as shown and described.

115,436
DESIGN FOR A CLOCK CASE
Othneil G. Williams, Winsted, Conn.
Application April 4, 1939, Serial No. 84,035
Term of patent 3½ years



The ornamental design for a clock case, as shown.

115,437
DESIGN FOR GOGGLES
Thomas A. Willson, Wyomissing, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application November 15, 1938, Serial No. 81,098
Term of patent 14 years



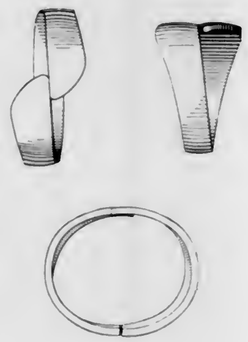
The ornamental design for goggles, as shown and described.

115,438
DESIGN FOR A SHOE SOLE
Walter H. Wirries, Lima, Ohio, assignor to The Lima Cord Sole and Heel Company, Lima, Ohio, a corporation of Ohio
Application April 26, 1939, Serial No. 84,560
Term of patent 14 years



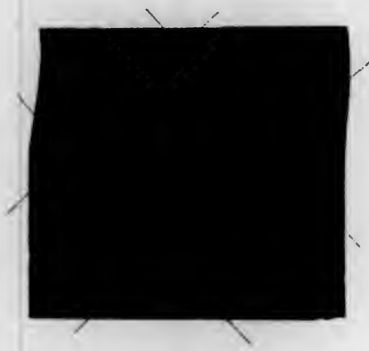
The ornamental design for a shoe sole, as shown.

115,439
DESIGN FOR A BRACELET
Eli J. Beaupre, North Attleboro, Mass., assignor to Associated Attleboro Manufacturers, Inc., Attleboro, Mass., a corporation of Massachusetts
Application June 30, 1938, Serial No. 78,174
Term of patent 14 years



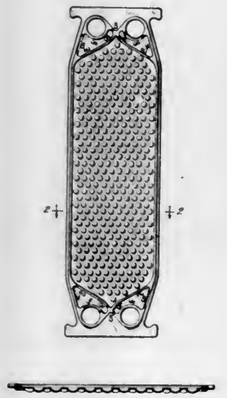
The ornamental design for a bracelet, substantially as shown and described.

115,440
DESIGN FOR A TEXTILE FABRIC
Max Beckendorf, New York, N. Y.
Application April 29, 1939, Serial No. 84,664
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

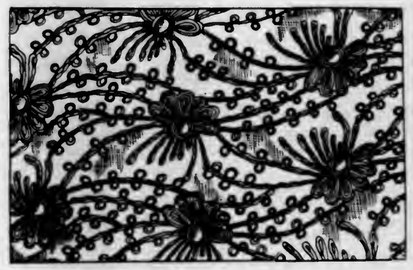
115,441
DESIGN FOR A PLATE FOR HEAT EXCHANGER
Charles Brown Dalzell, Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Application October 1, 1938, Serial No. 80,165
Term of patent 14 years



The ornamental design for a plate for heat exchanger, substantially as shown.

The ornamental design for a plate for heat exchanger, substantially as shown.

115,442
DESIGN FOR AN EMBROIDERED NET FABRIC OR SIMILAR ARTICLE
Joseph Gottreich, New York, N. Y.
Application May 11, 1939, Serial No. 84,928
Term of patent 3½ years



The ornamental design for an embroidered net fabric or similar article, substantially as shown.

115,443
DESIGN FOR A TEXTILE FABRIC
Marion Harris, New York, N. Y.
Application November 23, 1938, Serial No. 81,296
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

115,444
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application April 8, 1939, Serial No. 84,144
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

115,445
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Jules Hirsch, New York, N. Y.
Application April 8, 1939, Serial No. 84,145
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

115,446
DESIGN FOR A DECORATIVE WALL ORNAMENT OR THE LIKE
Frances D. Lynch, North Plainfield, N. J.
Application April 11, 1939, Serial No. 84,197
Term of patent 3½ years



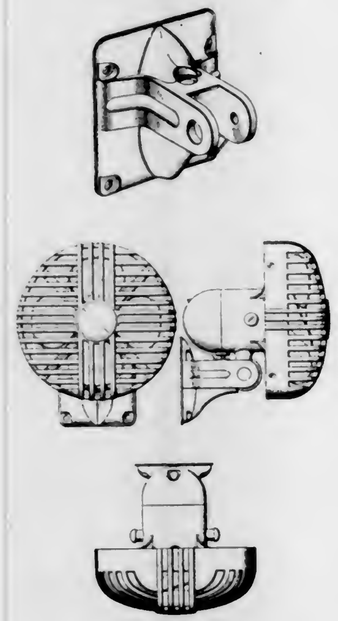
The ornamental design for a decorative wall ornament or the like, as shown.

115,447
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Frank Matarrese, Ridgefield Park, N. J., assignor to S. Naitove & Co., Inc., New York, N. Y., a corporation of New York
Application September 21, 1938, Serial No 80,020
Term of patent 3½ years



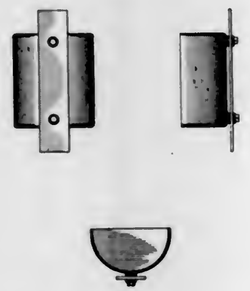
The ornamental design for a textile fabric or similar article, as shown and described.

115,448
DESIGN FOR AN ELECTRIC FAN OR SIMILAR ARTICLE
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 5, 1939, Serial No. 82,160
Term of patent 14 years



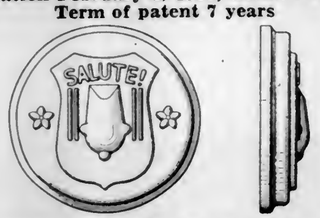
The ornamental design for an electric fan or similar article, as shown.

115,449
DESIGN FOR A SIGNAL DEVICE
Lloyd Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Application April 13, 1939, Serial No. 84,256
Term of patent 14 years



The ornamental design for a signal device, as shown.

115,450
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Hanson Robinson, Wayne, Pa.
Application February 4, 1938, Serial No. 74,863
Term of patent 7 years



The ornamental design for a badge or similar article, substantially as shown.

115,451
DESIGN FOR A COMBINED LETTER OPENER AND WATCH
Roland Sutera, Brooklyn, N. Y.
Application August 2, 1938, Serial No. 79,027
Term of patent 7 years



The ornamental design for a combined letter opener and watch, substantially as shown.

115,452
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application April 24, 1939, Serial No. 84,523
Term of patent 3½ years



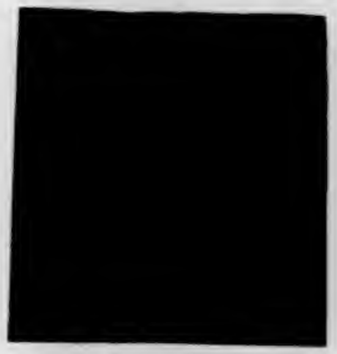
The ornamental design for a textile fabric or similar article, as shown.

115,453
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application May 18, 1939, Serial No. 85,059
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

115,454
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application May 18, 1939, Serial No. 85,060
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

115,455
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application March 31, 1939, Serial No. 83,937
Term of patent 3½ years



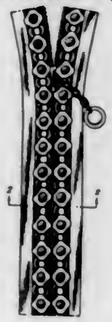
The ornamental design for a slide fastener closure, substantially as shown.

115,456
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application March 31, 1939, Serial No. 83,938
Term of patent 3½ years



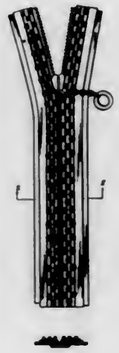
The ornamental design for a slide fastener closure, substantially as shown.

115,457
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application March 31, 1939, Serial No. 83,939
Term of patent 7 years



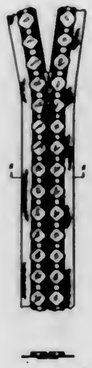
The ornamental design for a slide fastener closure, substantially as shown.

115,458
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application April 20, 1939, Serial No. 84,422
Term of patent 3½ years



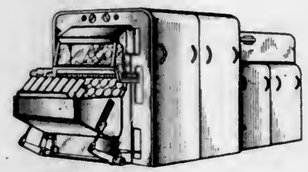
The ornamental design for a slide fastener closure, substantially as shown.

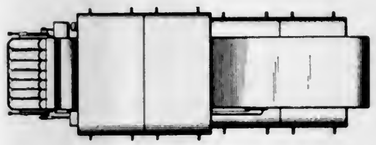
115,459
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application April 11, 1939, Serial No. 84,196
Term of patent 7 years



The ornamental design for a slide fastener closure, substantially as shown.

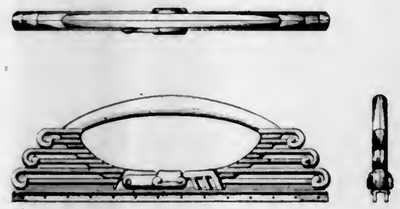
115,460
DESIGN FOR A BOTTLE WASHER
Richard A. Lippold, Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Chicago, Ill., a corporation of Delaware
Application April 10, 1939, Serial No. 84,167
Term of patent 7 years





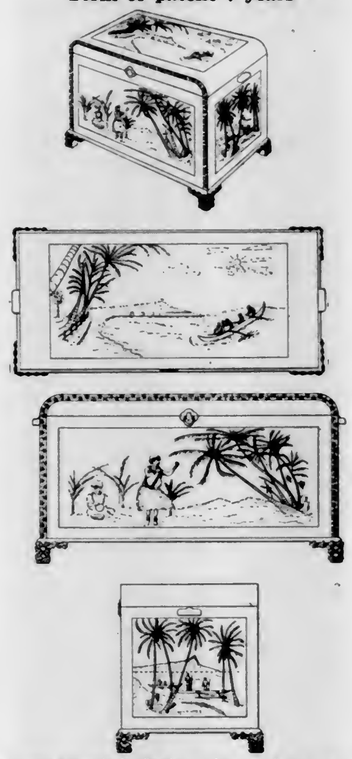
The ornamental design for a bottle washer as shown.

115,461
DESIGN FOR A BAG FRAME
Charles McLaughlin, Garden City, N. Y., assignor to Tilton & Cook Co., Leominster, Mass., a corporation of Massachusetts
Application April 15, 1939, Serial No. 84,324
Term of patent 3½ years



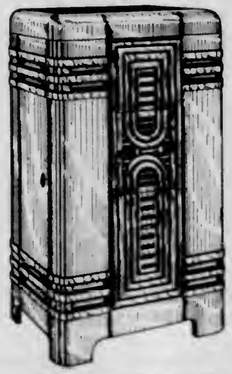
The ornamental design for a bag frame, substantially as shown.

115,462
DESIGN FOR A BOX OR SIMILAR ARTICLE
Wah Chan Thom, Honolulu, Territory of Hawaii
Application February 24, 1939, Serial No. 83,191
Term of patent 7 years



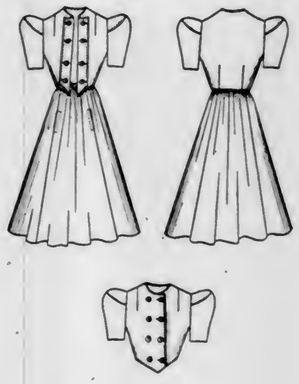
The ornamental design for a box or similar article, as shown and described.

115,463
DESIGN FOR A CABINET FOR CIRCULATING HEATER
Georges Wilmet, Roslyn, N. Y., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application March 31, 1939, Serial No. 83,942
Term of patent 14 years



The ornamental design for a cabinet for circulating heater, as shown and described.

115,464
DESIGN FOR A DRESS
Lillian Abbott, New York, N. Y.
Application May 17, 1939, Serial No. 85,039
Term of patent 3½ years



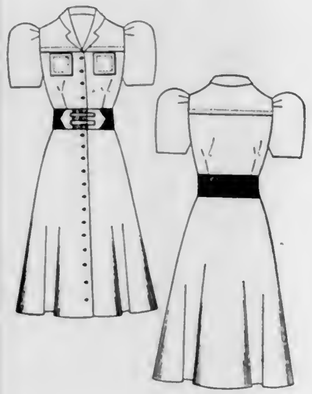
The ornamental design for a dress, substantially as shown, and described.

115,465
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Edmond P. Bixer, New York, N. Y.
Application April 29, 1939, Serial No. 84,674
Term of patent 7 years



The ornamental design for a textile fabric or similar article, as shown.

115,466
DESIGN FOR A DRESS
Arthur Cohen, New York, N. Y.
Application May 26, 1939, Serial No. 85,204
Term of patent 3½ years



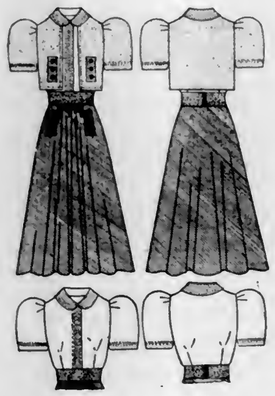
The ornamental design for a dress, substantially as shown and described.

115,467
DESIGN FOR A DRESS
Arthur Cohen, New York, N. Y.
Application May 26, 1939, Serial No. 85,205
Term of patent 3½ years



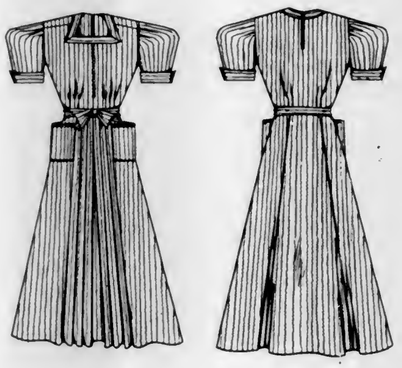
The ornamental design for a dress, substantially as shown and described.

115,468
DESIGN FOR A DRESS ENSEMBLE
Arthur Cohen, New York, N. Y.
Application May 26, 1939, Serial No. 85,206
Term of patent 3½ years



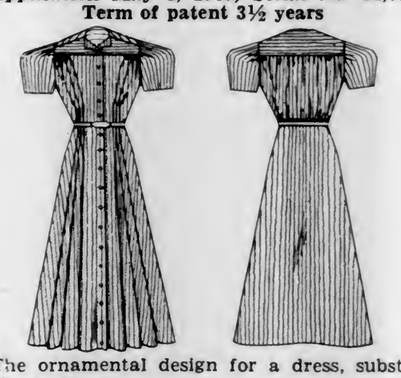
The ornamental design for a dress ensemble, substantially as shown.

115,469
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,735
Term of patent 3½ years



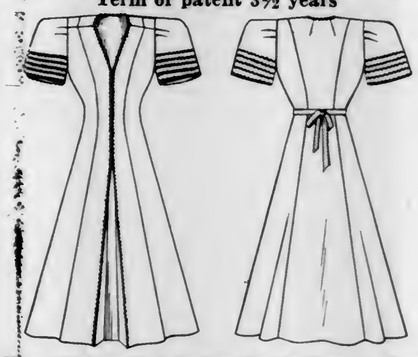
The ornamental design for a dress, substantially as shown.

115,470
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,736
Term of patent 3½ years



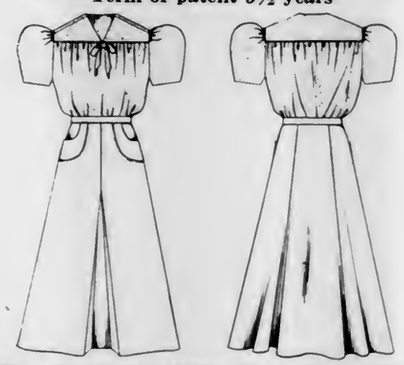
The ornamental design for a dress, substantially as shown.

115,471
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,740
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,472
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,748
Term of patent 3½ years



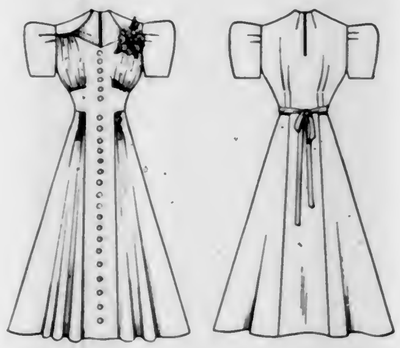
The ornamental design for a dress, substantially as shown.

115,473
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 22, 1939, Serial No. 85,108
Term of patent 3½ years



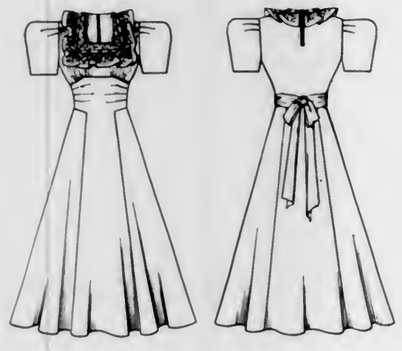
The ornamental design for a dress, substantially as shown.

115,474
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 22, 1939, Serial No. 85,110
Term of patent 3½ years



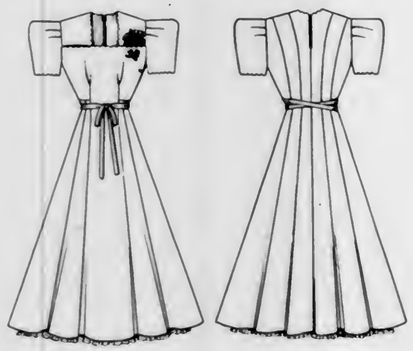
The ornamental design for a dress, substantially as shown.

115,475
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 22, 1939, Serial No. 85,111
Term of patent 3½ years



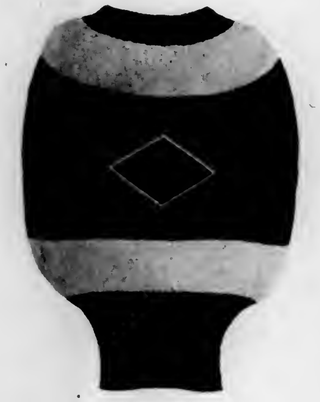
The ornamental design for a dress, substantially as shown.

115,476
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 22, 1939, Serial No. 85,112
Term of patent 3½ years



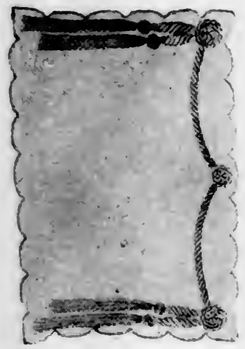
The ornamental design for a dress, substantially as shown.

115,477
DESIGN FOR A SWEATER
Abraham Gepner, Birmingham, Ala.
Application February 20, 1939, Serial No. 83,114
Term of patent 7 years



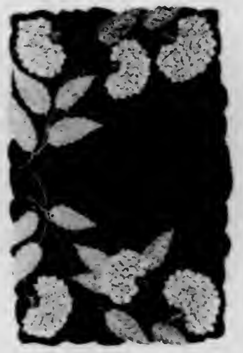
The ornamental design for a sweater, as shown and described.

115,478
DESIGN FOR A MAT OR SIMILAR ARTICLE
Thomas L. Leishman, New York, N. Y.
Application April 24, 1939, Serial No. 84,524
Term of patent 14 years



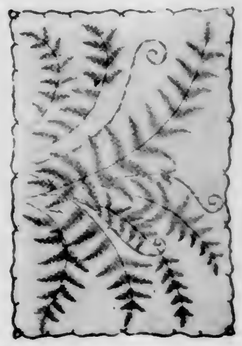
The ornamental design for a mat or similar article, substantially as shown.

115,479
DESIGN FOR A MAT OR SIMILAR ARTICLE
Thomas L. Leishman, New York, N. Y.
Application April 24, 1939, Serial No. 84,525
Term of patent 14 years



The ornamental design for a mat or similar article, substantially as shown.

115,480
DESIGN FOR A MAT OR SIMILAR ARTICLE
Thomas L. Leishman, New York, N. Y.
Application April 24, 1939, Serial No. 84,526
Term of patent 14 years



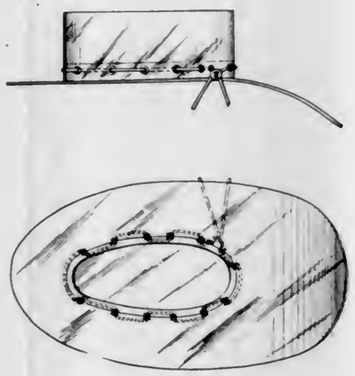
The ornamental design for a mat or similar article, substantially as shown.

115,481
DESIGN FOR A MAT OR SIMILAR ARTICLE
Thomas L. Leishman, New York, N. Y.
Application April 24, 1939, Serial No. 84,527
Term of patent 7 years



The ornamental design for a mat or similar article, substantially as shown.

115,482
DESIGN FOR A PROTECTIVE TRANSPARENT HAT COVERING
Louis Royak, New York, N. Y.
Application February 7, 1939, Serial No. 82,839
Term of patent 14 years



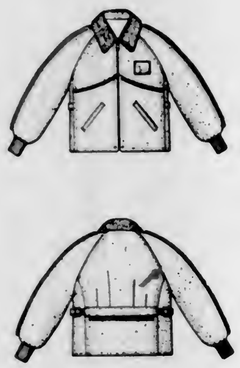
The ornamental design for a protective transparent hat covering, substantially as shown and described.

115,483
DESIGN FOR A DRESS
Benjamin Shapiro, New York, N. Y.
Application May 23, 1939, Serial No. 85,146
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,484
DESIGN FOR A WINDBREAKER JACKET
Robert L. Smith, Long Branch, N. J.
Application May 4, 1939, Serial No. 84,794
Term of patent 3½ years



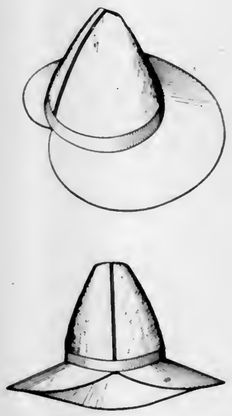
The ornamental design for a windbreaker jacket, as shown.

115,485
DESIGN FOR A DRESS
Jacob M. Sterngold, New York, N. Y.
Application May 17, 1939, Serial No. 85,030
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,486
DESIGN FOR A HAT
Nathan Du Bow, New York, N. Y.
Application April 30, 1938, Serial No. 76,903
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

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